DIVISION OF OIL AND GAS

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well
This notice must be given fifteen days before work begins when possible

Whittier Calif. Dec. 22 1947

DIVISION OF OIL AND GAS

Los Angeles Calif.

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of altering casing at well No.

(Cross out unnecessary words)

Oil Operators #3

Sec. 13, T. 4S, R. 13W, S. B. B. & M.

Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

1. Complete casing record.

   Total depth 5450' - Plug 5428'
   13-3/8' G 765'
   8-5/8' G 3986'
   1518' 5-1/2' F & G 5446' Perf. 5140-5180', 5190-5200' & 5306-5355'

2. Last produced

   Nov., 1947 8 B/D Ave. 23.0° 62.1% 
   (Date) (Net Oil) (Gravity) (Gas)

The proposed work is as follows:

1. Plug off perforations from 5140' to 5355' with a bridge plug.
2. Test H-I Zones by stages from 4200' to 4050'.
3. If O.K., knock out bridge plug and put on production.

UNION OIL COMPANY OF CALIFORNIA

(Name of Operator)

By John R. Fraser, Division Engineer

Address Notice to Division of Oil and Gas in District Where Well is Located
SUBMIT IN DUPLICATE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Subsequent Work Report

Operator: Union Oil Company of California
Field: Long Beach

Well No. Oil Operators #3, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

In compliance with the provisions of Chapter 718, Statutes 1915, as amended, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated December 31, 1937.

Date: September 11, 1941
Signed: [Signature]

Title: [Title]

Outline in the order of performance, together with the dates thereof, all important operations which alter the condition of the well. Include such information as depth at which redrilling operations were started, size of hole redrilled or deepened; size of pipe, amount of perforations in casing, weight and length of casing landed or cemented or removed; number of sacks of cement used in cementing or plugging operations and exact position thereof. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

**Casing Record at Start of Work:**
- 13-3/8" C. 765'
- 8-5/8" C. 3986', O.K.
- 116' 6-5/8" L. 4076', inc. 89' pf.

**Casing Record at End of Work:**
- 13-3/8" C. 765'
- 8-5/8" C. 3986', O.K.
- 1516' 5-1/2" C. 5446'. Pf: 5140-5180'; 5090-5200'; 5300-5355';

1941

- 7-31 4076
  - Killed well with mud.

- 8-2 4080
  - Drilled through bottom of liner and ahead to 4080' with 5-5/8" bit. Cut 6-5/8" liner at 3976'.

- 8-3 4080
  - Recovered 18' 6-5/8" liner. Ran in double cup inverted 6-5/8" casing swab, changed from mud to oil, and washed perforations.

- 8-6 4070
  - Recovered remaining 98' of 6-5/8" liner, changed from oil to mud, and drilled ahead with 7-5/8" rock bit.

- 8-21 5131
  - Drilled ahead with 7-5/8" bits to 5131'. Hole was directionally controlled, using whipsstocks at 4170', 4300', 4844, 4890', and 4977'. Ran Schlumberger survey.

- 8-25 5450
  - Continued drilling directionally controlled hole with 7-5/8" bits to 5450'. Coordinates of hole at 5449': 90.29' S., and 48.45' E. from the surface location of the hole. Ran Schlumberger survey. Ran in 1517.97' of new 52" Grade "C", 17/8 casing, including 83.44' new Grade "A", and 1.86' Burns 8-5/8"x5-1/2" liner hanger on top. Froze and cemented at 5446' with 285 sacks allow Colton cement.

- 8-29 5450 Plug 5428'
  - Found top of cement at 5665' and cleaned out cement to 5428'. Changed from mud to water and bailed fluid to 3011'. After standing 8 hours, found top of fluid at 3011', with no rise. Test was witnessed by D. O. G., and splice of liner approved. Changed from water to oil.
SUBMIT IN DUPLICATE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

Subsequent Work Report

OPERATOR: Union Oil Company of California
FIELD: Long Beach

Well No. Oil Operators #3, Sec. 13, T. 4 S., R. 13 W., S.B. B. & M.

In compliance with the provisions of Chapter 718, Statutes 1915, as amended, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated December 31, 1937, was filed.

Signed, Henry E. Winter

Date: September 11, 1941
Title: DIVISION ENGINEER

Outline in the order of performance, together with the dates thereof, all important operations which alter the condition of the well. Include such information as depth at which redrilling operations were started, size of hole redrilled or deepened; size of pipe, amount of perforations in casing, weight and length of casing landed or cemented or removed; number of bags of cement used in cementing or plugging operations and exact position thereof. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Eff. Depth</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-31</td>
<td>54.50</td>
<td>Plug 5428 Ran in Lane Wells 4 3/8&quot; casing gun perforator and perforated 5 1/2&quot; casing from 5440-5180', 5190-5200', 5306-5355', with a total of 200 1/2&quot; holes. Fluid level at surface during perforating.</td>
</tr>
<tr>
<td>9-1</td>
<td>54.50</td>
<td>Plug 5428 Ran in rods and tubing and put well on the pump.</td>
</tr>
</tbody>
</table>

**PRODUCTION DATA**

<table>
<thead>
<tr>
<th>Gross</th>
<th>Net</th>
<th>Gravity</th>
<th>% Cut</th>
<th>Hours Pumped</th>
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<tbody>
<tr>
<td>9-1</td>
<td>145</td>
<td>22.3</td>
<td>15.5</td>
<td>12</td>
</tr>
<tr>
<td>9-2</td>
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<tr>
<td>9-3</td>
<td>129</td>
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<td>15.0</td>
<td>24</td>
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<td>9-4</td>
<td>117</td>
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<td>10.5</td>
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</tr>
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<td>24</td>
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<td>22.3</td>
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<td>9-8</td>
<td>113</td>
<td>22.3</td>
<td>8.4</td>
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<td>114</td>
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<td>8.4</td>
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<td>9-10</td>
<td>99</td>
<td>23.1</td>
<td>8.6</td>
<td>24</td>
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</table>

**MEASUREMENT DATUM**

All measurements taken from top of rotary table, which is 22" above top of derrick floor. Top of derrick floor is 5' 1" above top of cement cellar, or 9' 1" above floor of cellar.
<table>
<thead>
<tr>
<th>Top of Formation</th>
<th>Bottom of Formation</th>
<th>Thickness</th>
<th>Drilled or Cored</th>
<th>Recovery</th>
<th>Description</th>
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<tbody>
<tr>
<td>4076</td>
<td>4723</td>
<td>647'</td>
<td>Drilled</td>
<td></td>
<td>Sand and shale</td>
</tr>
<tr>
<td>4723</td>
<td>4732</td>
<td>9'</td>
<td>&quot;</td>
<td></td>
<td>Sand with streaks of shale</td>
</tr>
<tr>
<td>4732</td>
<td>4959</td>
<td>227'</td>
<td>&quot;</td>
<td></td>
<td>Sand and shale</td>
</tr>
<tr>
<td>4959</td>
<td>4967</td>
<td>8'</td>
<td>&quot;</td>
<td></td>
<td>Shale</td>
</tr>
<tr>
<td>4967</td>
<td>5278</td>
<td>311'</td>
<td>&quot;</td>
<td></td>
<td>Sand and shale</td>
</tr>
<tr>
<td>5278</td>
<td>5305</td>
<td>27'</td>
<td>&quot;</td>
<td></td>
<td>Shale</td>
</tr>
<tr>
<td>5305</td>
<td>5450</td>
<td>145'</td>
<td>&quot;</td>
<td></td>
<td>Sand and shale</td>
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</table>

**TOTAL DEPTH 5450'**
<table>
<thead>
<tr>
<th>DATE</th>
<th>CORE NO.</th>
<th>DRILLER, SIZE &amp; TYPE BARREL</th>
<th>FROM</th>
<th>TO</th>
<th>TOTAL RECOVERY</th>
<th>SHALE</th>
<th>OIL SAND</th>
<th>GRAY SAND</th>
<th>SHELL</th>
<th>DESCRIPTION OF CORE</th>
<th>APPARENT DIP</th>
<th>ANGLE OF HOLE</th>
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</thead>
<tbody>
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<td></td>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>

( NO CORES TAKEN )
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Los Angeles, Calif. 9/10/1941

Name of Operator: McCarty

Address: Los Angeles

This is to acknowledge the receipt of logs and similar records of wells on Sec. 13, T. 23, R. 18 W. Long. B. & M., as herewith enumerated by well numbers.

History:

Core record:

Subsequent work:

R. D. BUSH, State Oil and Gas Supervisor

Duplicate

By

Diedrich

[Signature]

California State Printing Office
DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T. 1-40031

Los Angeles, Calif. September 10, 1941

Mr. W. S. Englaeton, Agent for UNION OIL COMPANY OF CALIFORNIA

Los Angeles, Calif.

Dear Sir:

Operations at your well No. "OIL OPERATORS" 3 Sec. 13, T. 4 S., R. 13 W., S.B. B. & M., Long Beach Field, in Los Angeles County, were witnessed by James T. Carroll, Inspector, representative of the supervisor, on August 23, 1941. There was also present H. E. Winter, Engineer, and J. Lewitz, Drilling Foreman.

Casing Record: 13-3/8" cement 765'; 8-5/8" cement 3981'. Junk None.
W.S.O.: 5-1/2" cement 3928'-5446'; T.D. 5450', plugged with cement 5450'-5428'.

The operations were performed for the purpose of demonstrating that no fluid has access to the well between the 8-5/8" and 5-1/2" casings.

and the data and conclusions are as follows:

THE INSPECTOR ARRIVED AT THE WELL AT 6:30 P.M. AND MR. WINTER REPORTED THE FOLLOWING:
1. All of the 8-5/8" casing was recovered.
2. A 7-5/8" rotary hole was drilled from 4075' to 5450'.
3. On August 25, 1941, 1513' of 5-1/2" - 17 lb. casing was cemented at 5446' with 285 sacks of Slow Colton cement.
4. Cement was drilled out of the 8-5/8" and 5-1/2" casings from 3685' to 3938' and from 5226' to 5428'.
5. On August 29, 1941, at 10:00 a.m., the fluid was bailed to 3041'.

THE INSPECTOR NOTED THE FOLLOWING:
1. No fluid entered the well while standing 8 hrs. for test.
2. The hole was open to 5428'.

The test was completed at 7:20 p.m.

THE OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED AS INDICATING THAT NO FLUID HAS ACCESS TO THE WELL BETWEEN THE 8-5/8" AND 5-1/2" CASINGS.

cc- H. E. Winter
Long Beach

JTG:OH

R. D. BUSH
State Oil and Gas Supervisor

By ___________ Deputy
Report on Proposed Operations

No. P. 1-36673

Los Angeles, Calif. July 28

Mr. W. S. Eggleston,

Los Angeles, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

Dear Sir:

Your proposal to deepen Well No. "OIL OPERATORS # 3"
Section 13, T. 13 N., R. 13 W., S. E. B. & M., Long Beach Field, Los Angeles County,
dated July 22, 1941, received July 24, 1941, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS: The condition of the well is as stated in the notice.

THE NOTICE STATES:
"The present condition of the well is as follows:
Total depth 4076 ft.
13-3/8" C. 765 ft.
8-5/8" C. 3986 ft. O. K.
116' 6-5/8" L. 4075', inc. 89' perf.
Last production, June, 1941 - 7641 oil, 9,521 water - 30 days.
It is desired to deepen to the "R-S" & "T" Zones."

PROPOSAL:
"The proposed work is as follows:
1. Pull 6-5/8" liner.
2. Deepen to approximately 5400 ft.
3. Cement solid 5-1/2" blank liner with top at approximately 3940 ft.
4. Test splice by Division of Oil & Gas.
5. Gun perforate "R-S" & "T" Zones as determined from electrical log.
6. Test on production."

DECISION:
THE PROPOSAL IS APPROVED PROVIDED THAT:
1. Mud fluid consistent with good drilling practice shall be used and the column of mud fluid maintained at all times to the surface, particularly while pulling the drill pipe.
2. Adequate blowout prevention equipment shall be provided and ready for use at all times.
3. Any hole to be sidetracked in any oil zone shall be filled with cement, if possible.

cc- R. E. Winter
Long Beach
WJC: G
5/12

R. D. BUSH
State Oil and Gas Superintendent

By, Deputy
Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well
This notice must be given fifteen days before work begins when possible

Santa Fe Springs, Calif. July 22, 1941

DIVISION OF OIL AND GAS

Los Angeles, Calif.

In compliance with Section 17, Chapter 718, Statutes of 1913, as amended, notice is hereby given that it is our intention to commence the work of deepening, redrilling, plugging or altering a well No. Oil Operators #3 Sec. 13, T. 4-S, R. 13-W, S.B. B. & M. Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

Total depth 4076'
13-3/8" C 765' O.K.
8-5/8" C 3986' O.K.
116' 6-5/8" L 4075', inc. 89' perf.

Last production, June, 1941 - 764 oil, 9,521 water - 30 days
It is desired to deepen to the "R-S" & "T" Zones.

The proposed work is as follows:

1. Pull 6-5/8" liner.
2. Deepen to approximately 5400 ft.
3. Cement solid 5-1/2" blank liner with top at approximately 3940 ft.
4. Test splice by Division of Oil & Gas.
5. Gun perforate "R-S" & "T" Zones as determined from electrical log.
6. Test on production.

UNION OIL COMPANY OF CALIFORNIA
(Name of Operator)

By

Division Engineer.

Address Notice to DIVISION OF OIL AND GAS in District Where Well Is Located
DIVISION OF OIL AND GAS

LOG OF OIL OR GAS WELL

Operator: UNION OIL COMPANY OF CALIFORNIA
Field: LONG BEACH

Well No.: OIL OPERATORS 3-23
Location: N.W. 1/4 of the center line of the Pacific Electric Railway right of way from the center line of Bixby Road, projected and thence 2071 ft.

Elevation: 53.88

In compliance with the provisions of Chapter 718, Statutes of 1915, as amended, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date: Dec. 31, 1937
Signed: Henry Elliott

(Engineer or Geologist) (Superintendent) (District Engineer)

Commenced drilling: Nov. 5, 1937
Completed drilling: Dec. 5, 1937
Drilling tools: Rotary

Total depth: 4076 ft
Plugged depth:
Junk:

Commenced producing: Dec. 5, 1937
Flowing/gas lift/pumping:

Initial production:
Production after 30 days:

<table>
<thead>
<tr>
<th>Clean Oil bbl. per day</th>
<th>Gravity Clean Oil</th>
<th>Per Cent Water including emulsion</th>
<th>Gas Mcf. per day</th>
<th>Tubing Pressure</th>
<th>Casing Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>267</td>
<td>23.5</td>
<td>1.5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>279</td>
<td>23.5</td>
<td>1.4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Casing Record (Present Hole)

<table>
<thead>
<tr>
<th>Size of Casing (A. P. I.)</th>
<th>Depth of Shoe</th>
<th>Top of Casing</th>
<th>Weight of Casing</th>
<th>New or Second Hand</th>
<th>Stainless or Lapweld</th>
<th>Grade of Casing</th>
<th>Size of Hole Casing landed in</th>
<th>Number of Sacks of Cement</th>
<th>Depth of Cementing if through perforation</th>
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</thead>
<tbody>
<tr>
<td>13-5/8</td>
<td>755</td>
<td>Surface</td>
<td>45.97#/</td>
<td>New</td>
<td>S/Sl</td>
<td>C</td>
<td>17½</td>
<td>350</td>
<td></td>
</tr>
<tr>
<td>8-5/8</td>
<td>3965</td>
<td>Surface</td>
<td>32#/</td>
<td>New</td>
<td>S/Sl</td>
<td>C</td>
<td>12-1/4½</td>
<td>400</td>
<td></td>
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<tr>
<td>6-5/8</td>
<td>4075</td>
<td>3965</td>
<td>28#/</td>
<td>New</td>
<td>S/Sl</td>
<td>C</td>
<td>7-5/8½</td>
<td>-</td>
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Perforations

<table>
<thead>
<tr>
<th>Size of Casing</th>
<th>From</th>
<th>To</th>
<th>Size of Perforations</th>
<th>Number of Rows</th>
<th>Distance Between Centers</th>
<th>Method of Perforations</th>
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</thead>
<tbody>
<tr>
<td>6-5/8</td>
<td>3965</td>
<td>4075</td>
<td>120 mesh</td>
<td>16</td>
<td>6&quot;</td>
<td>Kobe</td>
</tr>
</tbody>
</table>

Electrical Log Depths: Schlumberger from 765 to 4076

(Attach Copy of Log)
DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator: UNION OIL COMPANY OF CALIFORNIA  Field: LONG BEACH

Well No. OPERATOR'S 3, Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

Signed: [Signature]

Date: Dec. 31, 1937

District Engineer: [Title]

Form 109.

CALIFORNIA STATE PRINTING OFFICE

It is of the greatest importance to have a complete history of the well. Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production. Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of slugs of cement used in the plugging, number of slugs or number of feet of cement drilled out of casing, depth at which cement plugs started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

Casing Record at Start of Work:

New Well

1937

Depth

Remarks

55
Spudded in and drilled with 17" rotary bit.

765
Drilled with 17" rotary bits to 765. Cemented new 8-5/8" 45.97# National seamless slipjoint casing at 765 with 350 slugs Victor H.S.S. treated cement. Cementing operations witnessed and approved by Murray A. Murray, A. Murray, Division of Oil & Gas.

932
Found top of cement at 761. Drilled out cement and plugs to 762 and drilled ahead with 12-1/4" bits.

3948
Drilled with 12-1/4" bits to 3930' and cored with 7-5/8" core barrel to 3948'. Directional survey of hole made by Alexander Anderson.

4000
Cored ahead to 4000'. Ran Schlumberger survey. Reamed out core hole with 12-1/4" bit to 3986'.

4000
Cemented 8-5/8" 36# grade "C" 8-thread rounded seamless casing at 3986 with 4000 slugs Victor oil well cement.

3966'
Found top of cement at 3966'. Cleaned out cement and plugs to 3991'. Water shut off, test on 8-5/8" casing at 3986 witnessed and approved by Stoltz of Division of Oil & Gas. Cored to 4030'.

4076
Cored to 4076. Ran Schlumberger survey. Landed 116' of 8-5/8" 26# Grade "C" 10-thread casing at 4075', including 99' of 120 mesh (10-2-4) Kobe perforated on bottom. Bailed fluid to 1200' when oil broke in.

4076
Bailed hole clean. Landed 3" upset tubing at 3710'. Ran rods and installed pumping unit. Well on pump 8:00 P.M. 12-5-57.
History of Oil or Gas Well

Operator: UNION OIL COMPANY OF CALIFORNIA  
FIELD: LONG BEACH

Well No.: OIL OPERATORS 3, Sec. 15, T. 4-S, R. 15-E, S.B. B. & M.

Signed: [Signature]

Date: Dec. 31, 1937

Title: District Engineer

(President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production. Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of cement used in the plug, number of shots or number of feet of cement drilled out of casing, depth at which cement plug started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

<table>
<thead>
<tr>
<th>Date</th>
<th>Gross</th>
<th>Net</th>
<th>Grav.</th>
<th>Cut</th>
<th>Status</th>
<th>Remarks</th>
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## CORE RECORD

### Long Beach FIELD Union Oil COMPANY Oil Operators LEASE #3 WELL LOCATION 53.98 ELEVATION

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<th>DATE</th>
<th>CORE NO.</th>
<th>DRILLER SIZE &amp; TYPE BARREL</th>
<th>FROM TO</th>
<th>TOTAL REC.</th>
<th>SHALE</th>
<th>OIL SAND</th>
<th>GRAY SAND</th>
<th>SHELL</th>
<th>DESCRIPTION OF CORE</th>
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<td>7-5/8 Soil</td>
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<td></td>
<td>Firm soft fine brown oil sand, poorly sorted top 1.0. Good odor and dark amber cut. Firm, fine brown oil sand laminated with grayish-brown bentonitic shale. Hard grayish-brown bentonitic shale. Change from oil sand and shale above is very gradational. Firm, soft fine brown oil sand. Good odor and dark amber cut. Hard brown shale. Firm soft fine brown oil sand.</td>
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<td>1.8 of mud and cavings with streaks of fine gray sand 0.5 from top. Soft fine brown oil sand mixed with mud.</td>
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<td>Soft loose fine brown oil sand. Hard dark brown silty shale with streaks of fine brown oil sand. Firm soft fine brown oil sand.</td>
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STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS
LOS ANGELES
Calif. 12-19-1937

No. 3646

Union Oil Co. of Calif.

Name of Operator LOS ANGELES

Address

This is to acknowledge the receipt of logs and similar records of wells on Sec. 13 T. 3 N.

R. D. Bush, State Oil and Gas Supervisor

History

Core record

Subsequent work

DUPPLICATE

R. D. BUSH, State Oil and Gas Supervisor

By [Signature]

CALIFORNIA STATE PRINTING OFFICE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Test of Water Shut-off

No. T 1-33469

Los Angeles, Calif. December 8, 1937.

Mr. Ed. Jussen, Jr.,

Los Angeles, Calif.

Dear Sir:

Your well No. "OIL OPERATORS" 3, Sec. 13, T. 4 S., R. 13 W., S. E. 1/4 B. & M., Long Beach Field, in Los Angeles County, was tested for shut-off of water on December 1, 1937, Mr. F. G. Stoltz, designated by the supervisor, was present as prescribed in Section 19, Chapter 718, Statutes 1915, as amended, and there were also present R. Hampton, Engineer, and J. Keyish, Toolpusher.

Location of water tested above 3986' and normal fluid level not determined.

Depth and manner of water shut-off: 3986 ft. of 8-5/8 in. 36 lb. casing was cemented in shale formation at 3986 ft. with 400 sacks Victor oil well cement by casing method.

Water string was landed in 12½" rotary hole.

Casing record of well 13-3/8" cement, 765'; 8-5/8" as above.

Reported total depth of hole 4000 ft. Hole bridged from XXX ft. to XXX ft. Hole cleaned out to 3991 ft. for this test.

At time of test depth of hole measured XXX ft. and bailer brought up sample of XXXX.

At XXX ft. oil bailed to XXX ft., drilling fluid swabbed to XXX ft.

At XXX ft. top of oil found at XXX ft., top of fluid found at XXX ft.

THE INSPECTOR ARRIVED AT THE WELL AT 8:30 A.M. AND MR. HAMPTON REPORTED THE FOLLOWING:

1. No casing test was made.
2. 28' of set cement was drilled out of the 8-5/8" casing (equivalent to 8 sacks).
3. The Johnston tester was run into the hole on 4" drill pipe.
4. The wall packer was set at 3989'.
5. The tester valve was opened at 9:12 a.m. and remained open for 30 minutes. During this interval there was a medium blow of air for 6 minutes, a strong to medium blow of gas for 24 minutes.

THE INSPECTOR NOTED THE FOLLOWING:

1. When the drill pipe was removed 2700' of oil was found in the drill pipe above the tester, equivalent to 35 bbl.
2. The fluid sample taken from the bottom of the drill pipe tasted fresh.
3. The recording pressure bomb chart showed that the tester valve was open for 30 minutes.

The test was completed at 11:50 a.m.

THE SHUT-OFF IS APPROVED.

R. D. BUSH
State Oil and Gas Supervisor

cc- H. E. Winter
Long Beach
FCS:0E

By: [Signature] Deputy
629 South Hill Street
Los Angeles, California
November 24, 1937.

Union Oil Company of California,
Santa Fe Springs, Calif.

Gentlemen:  Attention Mr. Henry E. Winter

This will acknowledge receipt of and thank you
for your letter dated November 22, 1937, giving the correct
elevation and location of your well No. "Oil Operators" 3,
Sec. 13, T. 4 S., R. 13 W., S. E. 1/4 N., Long Beach field,
as follows:

Elevation: 53.28' U. S. G. S.

Location: 982 feet N.W. 1/4ly along the center
line of the Pacific Electric Railway Right of
Way from the center line of Bixby Road
projected from thence 271 ft. southwesterly
at right angles.

Our records have been corrected accordingly.

Yours truly,

[Signature]

B: EMS

CC - Mr. R. D. Bush (2)
Long Beach

Deputy Supervisor.

<table>
<thead>
<tr>
<th>Corrections Made as Follows</th>
<th>By Whom</th>
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<td>Weekly Summaries</td>
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<tr>
<td>Elev. and Loc. Cards</td>
<td></td>
</tr>
<tr>
<td>Production Reports</td>
<td></td>
</tr>
<tr>
<td>Well Records</td>
<td></td>
</tr>
<tr>
<td>Peg Marking</td>
<td></td>
</tr>
</tbody>
</table>

20 C.B.

Book
C.B.
11/24/37
Santa Fe Springs, Calif. Nov. 22, 1937

Mr. E. Huguenin, Deputy Supv.,
Division of Oil & Gas,
Los Angeles, Calif.

Dear Sir:

The elevation of the Union Oil Company well "Oil Operators #3" at Long Beach (Sec. 13-4-13) is 53.88 U.S.G.S.

The corrected location is as follows:

962 ft. N-W'ly along the center line of the Pacific Electric Railway Right of Way from the center line of Bixby Road projected and thence 271 ft. Southwesterly at right angles.

Our records have been corrected accordingly.

Very truly yours,

Henry E. Winter
District Engineer.
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T.1-33407

Los Angeles, Calif. November 29, 1937

Mr. Ed. Jussen, Jr.,

Los Angeles, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

Dear Sir:

Operations at your well No. "OIL OPERATORS" 3 Sec. 13, T. 4 S., R. 13 W., S.E. B. & M., Long Beach Field, in Los Angeles County, were witnessed by R. R. Murray-Aaron, representative of the supervisor, on November 9, 1937. There was also present R. Hampton, Engineer, and J. Kewish, Drilling Foreman.

Casing Record: 13-3/8" cas. 765'; T.D. 765'.

Junk XXXX

The operations were performed for the purpose of demonstrating that the known surface waters are adequately protected.

and the data and conclusions are as follows:

THE INSPECTOR ARRIVED AT THE WELL AT 8:45 A. M. AND MR. HAMPTON REPORTED THE FOLLOWING:
1. A 17" rotary hole was drilled from the surface to 765'.
2. 770' of 13-3/8" - 45.97 lb. casing was run into the hole to 765'.

THE INSPECTOR NOTED THE FOLLOWING:
1. The 13-3/8" casing was cemented at the reported depth of 765' with 350 sacks of Victor High Early cement.
2. The final pressure was 500 lb.

The operations were completed at 9:30 a.m.

THE CEMENTING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED AS INDICATING THAT THE KNOWN SURFACE WATERS ARE ADEQUATELY PROTECTED.

cc - H. E. Winter
Long Beach
ERMA: OH

R. D. BUSH
State Oil and Gas Supervisor

By [Signature] Deputy
STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL AND GAS  

Report on Proposed Operations  

No. P 1-31535  

Los Angeles, Calif. November 14, 1937  

Mr. Ed. Jussen, Jr.,  

Los Angeles, Calif.  

Agent for UNION OIL COMPANY OF CALIFORNIA  

Dear Sir:  

Your proposal to drill Well No. "OIL OPERATORS" 3,  

Section 13, T4 S., R. 13 W., S.B. B. & M., Long Beach Field, Los Angeles County,  
dated Oct. 28, 1937, received Oct. 29, 1937, has been examined in conjunction with records filed in this office.  

Present conditions as shown by the records and the proposal are as follows:  

THE NOTICE STATES:  

"The well is 355 feet N.W'ly along the center line of San Antonio from the center line of Del Mar Ave. and thence 925' N.W'ly at right angles. 53.88 ft.  

The elevation of the derrick floor above sea level will be determined later approx. 55 ft.  

We estimate that the first productive oil or gas sand should be encountered at a depth of about 4000 feet, more or less."  

PROPOSAL:  

"We propose to use the following strings of casing, either cementing or landing them as herein indicated:  

<table>
<thead>
<tr>
<th>Size of Casing</th>
<th>Weight</th>
<th>New or Second Hand</th>
<th>Depth</th>
<th>Landed or Cemented</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-3/8&quot;</td>
<td>46</td>
<td>New</td>
<td>700'</td>
<td>Cmtd.</td>
</tr>
<tr>
<td>8-5/8&quot;</td>
<td>36</td>
<td>New</td>
<td>4000</td>
<td>Cmtd.</td>
</tr>
<tr>
<td>6-5/8&quot;</td>
<td>Perforated liner</td>
<td>New</td>
<td>4100'</td>
<td>Landed.</td>
</tr>
</tbody>
</table>

Well is to be drilled with rotary tools.  

It is understood that if changes in this plan become necessary we are to notify you before cementing or landing casing."  

DECISION:  

THE PROPOSAL IS APPROVED PROVIDED THAT:  

1. (a) Mud fluid of not less than 70 lb. per cubic foot shall be used in the drilling of the well and the column of mud fluid shall be maintained at all times to the surface, particularly while pulling the drill pipe.  

(b) Adequate blow-out prevention equipment shall be provided and ready for operation at all times.  

2. Any hole to be sidetracked at any time during the drilling of this well shall be completely filled with cement.  

3. The formations to be left back of the 8-5/8" casing shall be mudded by open circulation until the loss is not more than 5 bbl. per hr.  

4. THIS DIVISION SHALL BE NOTIFIED TO WITNESS:  

(a) The cementing of the 13-3/8" surface casing.  

(b) Final mudding operations before cementing the 8-5/8" casing.  

(c) A test of the effectiveness of the 8-5/8" shut-off.  

*982 feet N.W'ly along the center line of the Pacific Electric Railway Right of Way from the center line of Sixty Road projected and thence 271 feet southwesterly at right angles. (Correction letter 11-24-37)  

cc: H. E. Winter  

Long Beach  
WJG: OH  

R. D. BUSH  
State Oil and Gas Supervisor  

By Signature Deputy
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

Notice of Intention to Drill New Well
This notice must be given before drilling begins

General Exploration Co.
Santa Fe Springs, Cal.
Oct. 23, 1937

Mr. E. HUGUENIN
Deputy State Oil and Gas Supervisor
Los Angeles, Cal.

DEAR SIR:

"Oil Operators 3"

In compliance with Section 17, Chapter 718, Statutes of 1917, as amended, notice is hereby given that it is our intention to commence the work of drilling well No. Oil Operators #3, Sec. 13, T. 4-S., R. 13-W., S.B., B. & M., Long Beach Oil Field, Los Angeles County.

La se consists of: 932 feet N.W. 'ly along the center line of the Pacific Electric Railway Right of Way from the center line of Harby Road projected and thence 271 feet S.S.W. along the center line of San Antonio from the center line of Del Mar and thence 920 feet N. 'ly at right angles.

The well is 355 feet N.N.W., and 932 feet S.W. of NE. corner of Sec. 13, T. 4-S., R. 13-W., S.B., B. & M., Long Beach Oil Field, Los Angeles County.

Will be determined later.

We propose to use the following strings of casing, either cementing or landing them as herein indicated:

<table>
<thead>
<tr>
<th>Size of Casing, Inches</th>
<th>Weight, Lb. Per Foot</th>
<th>New or Second Hand</th>
<th>Depth</th>
<th>Landed or Cemented</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-3/8&quot;</td>
<td>46</td>
<td>New</td>
<td>700'</td>
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</tr>
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<td>36</td>
<td>New</td>
<td>4000'</td>
<td>Cmtd.</td>
</tr>
<tr>
<td>6-5/8&quot; Perforated liner</td>
<td></td>
<td>New</td>
<td>4100'</td>
<td>Landed</td>
</tr>
</tbody>
</table>

Well is to be drilled with rotary tools.

It is understood that if changes in this plan become necessary we are to notify you before cementing or landing casing.

We estimate that the first productive oil or gas sand should be encountered at a depth of about 4000 feet, more or less.

Respectfully yours

Address: Santa Fe Springs, Calif.

Telephone number: Whittier 42687

By: Henry C. White

District Engineer.
Mr. Mark Pender
C.R.G. Properties, LTD (C0250)
149 S. Barrington Ave. #804
Los Angeles, CA 90049

Your report of abandonment of well "Nwlbu" 8-3, A.P.I. No. 037-06496, Section 13, T. 04S, R. 13W, SB B.&M., Long Beach field, Los Angeles County, dated 12/15/2013, received 1/8/2014, has been examined in conjunction with records filed in this office. We have determined that the requirements of this Division have been fulfilled relative to plugging and abandonment of the well, removal of well equipment and junk, and filing of well records. The plugging and abandonment of the well is approved.

The determination of this well plugging and abandonment is based on the following information, consistent with California Public Resources Code (PRC), and the California Code of Regulations (CCR):

1. Surface plugging completed on 12/2/2013.

2. Site inspection made and approved on 12/19/2013.

Kenneth A. Harris Jr.
State Oil and Gas Supervisor

By ____________________________
For Daniel J. Dudak, District Deputy

EPM:epm

cc: Long Beach Dept. of Gas & Oil
Mr Mark Pender  
C.R.G. Properties, LTD (C0250)  
149 S. Barrington Ave. #804  
Los Angeles, CA 90049  

Your report of abandonment of well “Nwilbu” 8-3, A.P.I. No. 037-06496, Section 13, T. 04S, R. 13W, SB B.&M., Long Beach field, Los Angeles County, dated 12/12/2013, received 2/4/2014, has been examined in conjunction with records filed in this office. We have determined that all of the requirements of this Division have been fulfilled relative to plugging and abandonment of the well, removal of well equipment and junk, and filing of well records.


2. Site inspection made and approved on 12/19/2013.

Cypress, California
May 21, 2014

EM:kj
cc:Update

Pat Perez
Acting State Oil and Gas Supervisor

By
Daniel J. Dudak, District Deputy
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

SITE RESTORATION MEMO

Operator: C.R.G Properties, Ltd
API No: 037-066466
Well: "NW BU" 8-3
Field: Long Beach
County: Los Angeles
Sec. 13, T. 045, R. 13W, SB
Date: 3/21/2014
Date 1000 to 1200

Representative of the supervisor, was present

There were also present: Mick Beyer of AllenCo
Contact Number: (310) 505-9787
Email:

Surface location description: The property at 712 W. Baker Street (Baker Street / Golden Street), The property can be accessed near intersection of Magnolia Ave. and Wardlow Rd.

Date of Abandonment/Re-Abandonment: 11/01/2013

<table>
<thead>
<tr>
<th>Well Accessibility</th>
<th>Approved</th>
<th>Not Approved</th>
<th>Corrected</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil &amp; Gas Field Equipment Removed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oil Field Related Waste/Refuse Removed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Well Cellar Removed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operation Sumps Removed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Visible Surface Oil Contamination Removed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oil Field Related Power Pole(s) Removed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tank(s) Removed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface Pipeline(s) Removed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pad(s) Removed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Photos Taken For The Final Inspection:
See the following photos.

Number of deficiencies: 11/A
Deficiency Letter Date: _______ Deficiency Letter Number: _______

Photos attached to well file: Yes ☐ No ☐
The inspection as witnessed and reported is approved. Yes ☐ No ☐

By: Abdulseed G. Abdulrahman
Date: 5/17/2014

Dist 1, Rev 5/2014
All equipment, pipeline, casing or junk were removed from the site. All liquid wastes were removed and properly disposed. Excavations filled with earth and compacted properly to prevent settling.

Additional description of site restoration:

Discription: 

Dist 1, Rev 5/2014
# DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

## CHECK LIST - RECORDS RECEIVED AND WELL STATUS

**Company:** C.R.G. Properties, LTD  
**API #:** 037-06496  
**County:** Los Angeles  
**Well:** NWLBU 8-3  
**Sec.:** 13, T. 4S, R. 13W. S. B. B. & M.  
**Field:** Long Beach

<table>
<thead>
<tr>
<th>RECORDS RECEIVED</th>
<th>DATE</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Summary (Form OG100)</td>
<td>2/4/2014</td>
<td>Active</td>
</tr>
<tr>
<td>History (Form OG103)</td>
<td></td>
<td>Abandoned</td>
</tr>
<tr>
<td>Core Record (Form OG101)</td>
<td></td>
<td>Reabandoned</td>
</tr>
<tr>
<td>Directional Survey</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sidewall Samples</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date final records received.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electric Logs:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**WELL TYPE**

- Oil  
- Gas  
- Water Source  
- Observation  
- Exploratory  
- Dry Hole  
- Water Flood  
- Gas Disposal  
- Cyclic Steam  
- Steam Flood  
- Fire Flood  
- Other

**EFFECTIVE DATE:** 12/21/13  
**REMARKS:** Abandoned

---

## ENGINEERS CHECK LIST

- Summary, History & Core Record (Dupl.)
- Electric Log
- Operator’s Name
- Signature
- Well Designation
- Location
- Elevation
- Notices
- “T” Reports
- Casing Record
- Plugs
- Directional Survey
- Production/Injection (FAP Codes: 412-03-00)
- E Well on Prod., enter EDP
- Surface Inspection Required
- Surface inspection Waived (Island)
- Well site restoration deferred (common cellar)
- Final Letter Required
- Other:

## CLERICAL CHECK LIST

- Location change
- Elevation change
- Form OGD121
- Form OGD150b (Release of Bond)
- Duplicate logs to archives
- Notice of Records Due
- EDP
- Final Letter (OG159)
- Update Center

## FIELD CHECK LIST

- Date Surface Inspection Completed: 12/19/13

## RECORDS NOT APPROVED

(Reason:)

## RECORDS APPROVED

(Signature:)

RELEASE BOND

Date Eligible

(Use date last needed records received.)

MAP AND MAP BOOK

OGD2 1/16/14 CYPRESS
RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator C.R.G. Properties, LTD
Well "NWLBUN" B-3
A.P.I. No. 037-06496
Date 12-12-13

Field Long Beach
Sec. 13

County Los Angeles
T. 04S
R. 13w
sbB & M.

Name Mick Beyer
(Person submitting report)

Title Operations Manager
(President, Secretary, or Agent)

Address 2109 Gundry Ave. Signal Hill, Ca. 90755
Signature

Telephone Number 562 989-6100

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

11-08-13 M.I.R.U. – Installed and tested BOPE – Witnessed by C. Cullum w/DOGGR - Secured Well

11-11-13 R.I.H.5 ½” Scraper tagged dn. @ 5842’ = 104’ above clean out depth - Circ.with water w/returns of oily water and gas – P.O.H. Witnessed by M. Okafor & Z. Amilhussein w/ DOGGR - Secured well

11-12-13 R.I.H.W/Tbg. cleaned out scale and fine sand from 5842’ to 5900’ unable to work deeper – Secured well


11-25-13 Dug down around well and cut casing 5’ below surface – Found cement low inside 10’ and outside 20’ – Secured well

12-03-13 Topped off casing’s with 36 c.f.(31 sms) class G cement- E. Tabor w/DOGGR witnessed

12-04-13 Surface tag and welding of I.D. Plate Witnessed by P. Kaufman - Backfilled well location - Job complete.

SUBMIT IN DUPLICATE

OG103 (6/97/GSR/5M)
Printed on recycled paper.
RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator C.R.G. Properties, LTD
Field Long Beach
Well "NWLB" 8-3
A.P.I. No. 037-06496
Date 12-12-13
Address 2109 Gundry Ave. Signal Hill, Ca. 90755

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

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12-04-13 Surface tag and welding of I.D. Plate Witnessed by P.Kaufman - Backfilled well location - Job complete.
Cementing/Plugging Memo

Operator CRG Properties
API No. 037-06496
Well No. “Nwibu” 8-3
Sec. 13
T. 04S
R. 13W
S.B. B&M
Field Long Beach
County Los Angeles
On 12-4-13
Mr. / Ms. J. Collender, representative of the supervisor, was present from 1115 to 1130.

There were also present Mr. Tim Parker (Allenco)


The operations were performed for the purpose of Abandonment

☒ The plugging/cementing operations as witnessed and reported are approved.
☐ The location and hardness of the cement plug @ are approved.

Hole size: 17” fr. 0’ to 765’ 12 1/2” to 3139’ & 7 5/8” to 6540’

<table>
<thead>
<tr>
<th>Casing</th>
<th>Cemented</th>
<th>Top of Fill</th>
<th>Squeezed Away</th>
<th>Final Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>Wt.</td>
<td>Top Bottom</td>
<td>Date</td>
<td>MO-Depth</td>
</tr>
<tr>
<td>8 5/8”</td>
<td>36#</td>
<td>0’</td>
<td>3,986’</td>
<td>11/18/13</td>
</tr>
<tr>
<td>13 3/8”</td>
<td>46#</td>
<td>0’</td>
<td>210’</td>
<td>11/19/13</td>
</tr>
</tbody>
</table>

Casing/tubing recovered: Shot/cut at Pulled fr. 1115
Shot/cut at 1115

Junk (in hole):

Hole fluid (bailed to) at Witnessed by

<table>
<thead>
<tr>
<th>Mudding</th>
<th>Date</th>
<th>bbls</th>
<th>Displaced</th>
<th>Poured</th>
<th>Fill</th>
<th>Engineer</th>
</tr>
</thead>
<tbody>
<tr>
<td>83/25</td>
<td>11/14/13</td>
<td>25</td>
<td>4067’</td>
<td>3,875’</td>
<td>C. L. Cullum</td>
<td></td>
</tr>
<tr>
<td>73/26</td>
<td>11/19/13</td>
<td>27</td>
<td>2,773’</td>
<td>2,318’</td>
<td>Z. Amilhussin</td>
<td></td>
</tr>
<tr>
<td>73/40</td>
<td>11/19/13</td>
<td>120</td>
<td>2,018’</td>
<td>1,971’</td>
<td>T. Tyler</td>
<td></td>
</tr>
</tbody>
</table>

Note (12) Class II 3M; 11/08/13; C. Welty

C/O 5900’ w/ 20,000# @ 1200 11/12/13 PK

<table>
<thead>
<tr>
<th>Cement Plugs</th>
<th>Placing</th>
<th>Placing Witnessed</th>
<th>Top Witnessed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>Sx/cf</td>
<td>MO &amp; Depth</td>
<td>Time</td>
</tr>
<tr>
<td>11-13-13</td>
<td>247 cf</td>
<td>Tbg 5878”</td>
<td>0900</td>
</tr>
<tr>
<td>11-15-13</td>
<td>212 cf</td>
<td>Tbg@3875’</td>
<td>0830-1045</td>
</tr>
<tr>
<td>11-18-13</td>
<td>210 cf</td>
<td>Tbg@2450’</td>
<td>1300</td>
</tr>
<tr>
<td>11-19-13</td>
<td>73sx/84 cf</td>
<td>Tbg@200’</td>
<td>1425-1500</td>
</tr>
<tr>
<td>12/2/13</td>
<td>36 cf</td>
<td>Top 29.5’</td>
<td>1030</td>
</tr>
</tbody>
</table>

* 6 stages with tbg raised from 5878’ through 4313’
Mick wants a variance to start cementing at 5900’.

We tagged fill at 5842’ cleaned out with water down to 5900’ (we had no solid returns to surface, it seemed like cement steamers) we are hitting hard at this depth. Well history is showing cement plug at 5964’ it seems we are hitting it at 5900’. We would like approval to start are cement plug at 5900’

Note: On well 9-4 we tagged hard at 9125’ when clean out depth was 9151’ DOGGR Allowed us to cement at 9125’
Note: On well 9-5 we tagged fill at 9410’ cleaned out hard to 9420’ when clean out depth was at 9454’ DOGGR Allowed us to cement at 9420’

Sincerely,

Mick
Mick Beyer, Operations Manager
mbeyer@allencoca.com
AllenCo
2109 Gundry Avenue
Signal Hill, CA 90755
Phone: 562-989-6100
FAX: 562-989-6104
Cell: 310-505-9787
www.allenco-oilwellservice.com

Telecon w/M. Beyer—gravel-sized chunks of cement had been brought up for some time with well fluids when circulating. Then brought up chunks of cement. Fill at 5900’ is hard, push on w/20 k#. Okayed to cement. Allenco will use B5/8” scraper to liner top, then circulate before placing mud. KMA 11/12/13.

11/14/13 Okayed change in program to place one plug from 3875’ to 2800’. KMA
Mr Mark Pender  
C.R.G. Properties, LTD (C0250)  
149 S. Barrington Ave. #904  
Los Angeles, CA 90049

Cypress, California  
January 24, 2014

Your operations at well "Nwibu" 8-3, A.P.I. No. 037-06496, Sec. 13, T. 04S, R. 13W, SB B.&M., Long Beach field, in Los Angeles County, were witnessed on 11/8/2013, by Jack Collender, a representative of the supervisor.

The operations were performed for the purpose of **plugging and abandonment**.

**DECISION:**  APPROVED

**NOTE:** The required Class 112M blowout prevention equipment was inspected and approved on 12/4/2013.

**DEFICIENCIES NOTED AND CORRECTED:** NONE

KMA:dt

cc: Update

Tim Kustic  
State Oil and Gas Supervisor

By: [Signature]  
For: Daniel J. Dudak, District Deputy

OG109 (Rev. 10/2011)
**BLOWOUT PREVENTION EQUIPMENT MEMO**

**Operator:** C.R.G. Properties, LTD  
**Well:** "NWLBU" 8-3  
**Field:** Long Beach  
**COUNTY: L.A.**  
**Spud Date:**

<table>
<thead>
<tr>
<th>VISITS:</th>
<th>Date</th>
<th>Engineer</th>
<th>Time</th>
<th>Operator's Rep.</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>11/08/13</td>
<td>C. Welty</td>
<td>1500</td>
<td>to</td>
<td>1530</td>
</tr>
<tr>
<td>2nd &amp; Quang Than, Dale Peterson</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contractor: Allenco</td>
<td>Rig # 2</td>
<td>Contractor's Rep. &amp; Title</td>
<td>Derick Beyer, Driller</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Casing record of well: memo

**OPERATION:** Testing (inspecting) blowout prevention equipment and installation. Critical well? Y ☒ N ☐

**DECISION:** The blowout prevention equipment and its installation on the 8.625" casing are approved.

**Proposed Well Ops: Abandonment**

**Hole size:**

<table>
<thead>
<tr>
<th>API</th>
<th>Size (in.)</th>
<th>Manufacturer</th>
<th>Model or Type</th>
<th>Bore Size (in.)</th>
<th>Press. Rtg.</th>
<th>Date Last Overhaul</th>
<th>Gal. to Close</th>
<th>Recov. Time (Min.)</th>
<th>Calc. GPM Output</th>
<th>psi Drop to Close</th>
<th>Test Date</th>
<th>Test Press.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rd</td>
<td>2 7/8</td>
<td>Shaffer</td>
<td>Chasoy</td>
<td>7.125</td>
<td>5M</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Rd</td>
<td>csn</td>
<td>Shaffer</td>
<td>Chasoy</td>
<td>7.125</td>
<td>5M</td>
<td>1</td>
<td>1</td>
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</tbody>
</table>

**REQUIRED BOPE CLASS:** 113M C. Welty 11/13

**CASING RECORD OF BOPE ANCHOR STRING**

**Cement Details**

<table>
<thead>
<tr>
<th>Size</th>
<th>Weight(s)</th>
<th>Grade(s)</th>
<th>Shoe at</th>
<th>CP at</th>
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</thead>
</table>

**BOP STACK**

**TEST DATA**

**TOTAL: 2**

**AUXILIARY EQUIPMENT**

<table>
<thead>
<tr>
<th>No.</th>
<th>Size (in.)</th>
<th>Rated Press</th>
<th>Connections</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Weld</td>
<td>Flange</td>
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**ACTUATING SYSTEM**

<table>
<thead>
<tr>
<th>Accumulator Unit(s) Working Pressure</th>
<th>1,400 psi</th>
</tr>
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<tbody>
<tr>
<td>Total Rated Pump Output</td>
<td>gpm</td>
</tr>
<tr>
<td>Distance from Well Bore</td>
<td>ft.</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Accum. Manufacturer</th>
<th>Capacity</th>
<th>Precharge</th>
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</thead>
<tbody>
<tr>
<td>Koomey type</td>
<td>20gal.</td>
<td>1000psi</td>
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<tr>
<td>2 gal.</td>
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</table>

**CONTROL STATIONS**

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<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Manifold at accumulator unit</td>
<td>X</td>
<td></td>
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<tr>
<td>Remote at Driller's station</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other: other pump</td>
<td></td>
<td></td>
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</table>

**EMERG. BACKUP SYSTEM**

<table>
<thead>
<tr>
<th>N2 Cylinders</th>
<th>Pressure Gauge</th>
<th>Adjustable Choke</th>
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<tbody>
<tr>
<td>L= 51</td>
<td>2280psi</td>
<td>7 gal.</td>
</tr>
<tr>
<td>L= 2</td>
<td>2280psi</td>
<td>7gal.</td>
</tr>
<tr>
<td>L= 3</td>
<td>2280psi</td>
<td>gal.</td>
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<tr>
<td>L= 4</td>
<td>2280psi</td>
<td>gal.</td>
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<tr>
<td>L= 5</td>
<td>2280psi</td>
<td>gal.</td>
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<tr>
<td>L= 6</td>
<td>2280psi</td>
<td>gal.</td>
</tr>
</tbody>
</table>

**TOTAL: 14**

| Pipe Safety Valve | 2.88 psi |
| Other: Internal Preventer | |

**HOLE FLUID MONITORING EQUIPMENT**

<table>
<thead>
<tr>
<th>Alarm Type</th>
<th>Audible</th>
<th>Visual</th>
<th>Class</th>
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</thead>
<tbody>
<tr>
<td>Calibrated Mud Pit</td>
<td>A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pit Level Indicator</td>
<td>B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump Stroke Counter</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Pit Level Recorder</td>
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<td></td>
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<tr>
<td>Flow Sensor</td>
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<td></td>
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<tr>
<td>Mud Totalizer</td>
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</tr>
<tr>
<td>Calibrated Trip Tank</td>
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</tr>
<tr>
<td>Other:</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**REMARKS AND DEFICIENCIES:**

Lease water.
350x → 402.5cf
in 13°6x17° = 670
ETOC = 95°

ETOC = 2899
12°4'

Drilled thru C-518A
3187
2174

(WSO) 85°8' 26' to 3986
400x = 1468cf
3991-3958 inside 5% wtf 11cf
495cf = 1107
ETOC = 2879

51°5'
54150'
544b -3685 ins 5°5
285cf = 336 cf • 25 = 86cf
106cf in 5°2 x 7°5
ETOC = 4744

7°5° hole
TD = 6540'

7°13' cf in 5°2 x 7°5
fills from 5964 to 3043

KWA
11-0-13
PERMIT TO CONDUCT WELL OPERATIONS
CRITICAL WELL

Mr Mark Pender, Agent
C.R.G. Properties, LTD (C0250)
149 S. Barrington Ave. #804
Los Angeles, CA 90049

Your proposal to Abandon well "Nwlbu" 8-3, A.P.I. No. 037-06496, Section 13, T. 04S, R. 13W, SB B. & M., Long Beach field, Northwest Extension area, Brown pool, Los Angeles County, dated 7/10/2013, received 7/10/2013 has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:
1. Blowout prevention equipment, as defined by this Division's publication No. M07, shall be installed and maintained in operating condition and meet the following minimum requirements.
   a. Class II3M, with hydraulic controls, during abandonment operations.
   b. A 3M lubricator for wireline operations.
2. Blowout prevention practice drills are conducted at least weekly and recorded on the tour sheet. A practice drill may be required at the time of the test/inspection.
3. Hole fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
4. All portions of the well not plugged with cement are filled with inert mud fluid having a minimum density of 72 lbs/cu. ft and a minimum gel shear strength of 25 lbs./100 sq. ft. 
5. Prior to shooting any perforations for braidedhead squeezes, a pressure test of the 8-5/8" casing shall be made to ensure casing integrity. If casing integrity is not demonstrated, a retainer or packer is required for squeeze operations.
6. The well location shall be surveyed prior to burying the well, and the survey shall be filed with this office. Latitude and longitude shall be in decimal degrees, to six decimal places, in NAD83.
7. All casing must be removed from between 5' and 10' below ground level.
8. Well site restoration shall be completed within 60 days following the completion of plugging operations.
9. No program changes are made without prior Division approval.
10. THIS DIVISION SHALL BE NOTIFIED TO:
   a. Inspect the installed blowout prevention equipment prior to commencing downhole operations.
   b. Witness the clean-out depth at 6540'.

(Continued on page 2)

Tim Kustic
State Oil and Gas Supervisor

By [Signature]
For: Daniel J. Dudak, District Deputy

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended. Issuance of this permit does not affect the Operator's responsibility to comply with other applicable state, federal, and local laws, regulations, and ordinances.

OG111 (revised 02/2011)
Page 1 of 2
c. Witness the placing, location and hardness of the cement plug from 6540' to 4193'.
d. Witness the mudding operations.
e. Witness the placing, location and hardness of the cement plug from 3875' to 3675'.
f. Witness the placing, location and hardness of the cement plug from 3043' to 2800'.
g. Witness a pressure test of the 8-5/8'' casing.
h. Witness the cement squeeze through the perforations at 2440' through a retainer or packer (if casing integrity is not demonstrated).
i. Witness the placing, location and hardness of the cement plug from 2450' to 2190'.
j. Witness the cement squeeze through the perforations at 210' through a retainer or packer (if casing integrity is not demonstrated).
k. Witness the placing, location and hardness of the cement plug from 210' to surface', including all annular spaces.
l. Inspect the restored well site.

NOTE:
1. Upon completion of the proposed work, a History of Oil or Gas Well (form OG103) shall be submitted to this office.
2. The well abandonment history (History of Oil or Gas Well - form OG103), must include a description of the removal or abandonment of the well flowline and any associated piping.
3. Hydrogen sulfide gas (H₂S) is known to be present in this area, adequate safety precautions shall be taken prior to and during well operations.
4. The operator shall isolate the following zones:
   a. Base of the Freshwater Sand at 2260'.
   b. Top of the Upper Gas Zone at 2400'.
   c. Top of the Wilbur Zone at 3000'.
   d. Top of the Alamitos Zone at 3875'.
   e. Top of the Brown Zone at 4680'.
Failure to achieve adequate zonal isolation may have negative impacts on current and future operations. In addition, failure to achieve adequate zonal isolation will also be noted on the Report of Operations (OG 109).
NOTICE OF INTENTION TO ABANDON / RE-ABANDON WELL

In compliance with Section 3229, Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon ☒ / re-abandon ☐ well "Nwibu" 8-3 (Check one) API No. 037-06496

Sec. 13 , T. 4s , R. 13w , S.B. B&M, Long Beach Field, Los Angeles County.

The complete casing record of the well (present hole), including plugs and perforations, is as follows: (Attach wellbore schematics diagram also.)

See Attachment

The total depth is: 6540 feet. The effective depth is: 5964 feet.

Present completion zone(s): see attachment. Present zone pressure: N/A psi.

Oil or gas shows: see attachment. Depth to base of fresh water: 2260 feet.

Top of uppermost hydrocarbon zone (which may be behind unperforated casing): see attachment. Depth of interval.

Is this a critical well as defined in the California Code of Regulations, Title 14, Section 1720(a) (see next page)? Yes ☒ No ☐

The proposed work is as follows: (A complete program is preferred and may be attached.)

See Attachment.

The Division must be notified immediately of changes to the proposed operations. Failure to provide a true and accurate representation of the well and proposed operations may cause rescission of the permit.

Name of Operator
C.R.G. Properties, Ltd

Address
2109 GUNDY AVE.

Name of Person Filing Notice
MICK BEYER

City/State SIGNAL HILL Zip Code 90755

Telephone Number: 562 989-6100

Signature

Individual to contact for technical questions:
MICK BEYER

Telephone Number: 310 505-9787

E-Mail Address: MBEYER@allencoca.com

This notice must be filed, and approval given, before plugging and abandonment operations begin. If operations have not commenced within one year of the Division's receipt of the notice, this notice will be considered cancelled.

OG108 (1/09)
CRITICAL WELL DEFINITION

As defined in the California Code of Regulations, Title 14, Section 1720 (a), "Critical well" means a well within:

(1) 300 feet of the following:
   (A) Any building intended for human occupancy that is not necessary to the operation of the well; or
   (B) Any airport runway.
(2) 100 feet of the following:
   (A) Any dedicated public street, highway or the nearest rail of an operating railway that is in general use;
   (B) Any navigable body of water or watercourse perennially covered by water;
   (C) Any public recreational facility such as a golf course, amusement park, picnic ground, campground or any other area of periodic high-density population; or
   (D) Any officially recognized wildlife preserve.

This form may be printed from the DOGGR website at www.conservation.ca.gov/doi/
EXHIBIT A – Attachment II (continued)
WELL CONDITIONS AND ABANDONMENT SPECIFICATIONS

C.R.G. Properties, Ltd.  Well “Nwilbu” 8-3 (037-06496), Sec.13, Twn. 4S, Rge. 13W,S.B. B&M, Long Beach Oil Field.

According to Division records, the present condition of the well is as follows:
1. Location: West of Pacific Place just North of the 710 freeway on ramp. See map Exhibit A - Attachment II
2. Accessibility:
3. Status: Idle deserted
4. Total Depth: 6640' Effective Depth: 6964' Elevation of Kelly Bushing (KB) above sea level: 60'
5. Casing: 13-3/8" 45.97# casing cemented 765' with estimated top cement behind pipe at 84' +/-; 8-5/8" 36# casing cemented 3986' with estimated top of cement behind pipe at 2865' +/-, drilled thru 3139'; 5-1/2" 15.5# id 3043' – 6664', cp 4393, estimated top of cement behind pipe at 3043, perforated from 4458' to 5827'.
6. Tubing: Unknown  Rods: Unknown
7. Base of Fresh Water (BFW): 2250'
8. Producing Zone(s): Alamitos
9. Hole Fluid: Unknown
10. Junk: Unknown
11. Plugs: 6540' to 6664'.
12. Comments: Top of Brown zone 4680', top of Alamitos zone 3875', top of Wilbur zone 3000', and top of Upper Gas zone 2400'.

The following operations are necessary to plug and abandon the well:

1. A Notice of Intention to Abandon (form OG 108) is to be filed with this Division at least 10 days prior to commencing work. Work is not to begin until a Permit to Conduct Well Operations (Form OG 111) has been issued. All well operations are to be witnessed by a representative of this Division as directed in the Permit to Conduct Well Operations.

2. The abandonment contractor will review job safety programs (JSP) with all crew members prior to work startup and/or if conditions change. Monitor well for any leaking gas. Position gas monitors and ventilation fans, if warranted before moving in any other equipment or personnel.

3. Adequate blowout prevention equipment, as defined in Division’s publication No. M07, shall be installed and maintained in operating condition at all times. The minimum requirements are:
   a. A 3M rod Reagan or equivalent BOPE for pulling rods and pump operations.
   b. A Class II 3M, with hydraulic controls, during abandonment operations.
   c. A 3M lubricator for wire line operations.

4. All portions of the well not plugged with cement are filled with inert mud fluid having a minimum density of 72 lbs/cu ft and a minimum gel shear strength of 25 lbs./100 sq. ft. All cement plugs are to have a minimum compressive strength of 1000 psi and maximum liquid permeability of 0.1 md. All depths noted are from the KB.

5. Hole fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
EXHIBIT A – Attachment II (continued)
WELL CONDITIONS AND ABANDONMENT SPECIFICATIONS

6. Kill well. Install and function test rod Reagan or equivalent BOPE. Pull out of the hole with rods and pump.

7. Remove rod Reagan. Install and function test Class II3M BOPE (function test BOPE each day thereafter).

8. Pull out all production tubing.

9. Use appropriate combination tools to clean out to 6540'.


11. Run in hole with tubing (if tag high, clean out fill to 6540').

12. The well shall be plugged with cement from 6540' to 4193'

13. The well shall be plugged with cement from 3875' to 3675'.

14. The well shall be plugged with cement from 3043' to 2800'

15. Prior to shooting any perforations for braidhead squeezes, a pressure test of the casing shall be made to ensure casing integrity. If casing integrity is not demonstrated, a retainer or packer is required for squeeze operations.

16. The 8-5/8” casing shall be perforated from 2440 to 2450'. Get an injection rate or a breakdown.

17. Sufficient cement shall be squeezed into the perforations to fill to 2490' outside the 8-5/8” casing.

18. The well shall be plugged with cement from 2450' to 2190'.

19. The 8-5/8” casing shall be perforated from 210 to 200'. Get an injection rate or a breakdown.

20. Sufficient cement shall be squeezed into the perforations to fill to surface.

21. The well shall be plugged with cement from 210' to surface.

22. The 13-3/8” X 17” annulus shall be plug with cement from 84' to surface.

23. All casing must be removed from between 5’ and 10’ below ground level.

24. A steel plate, at least as thick as the outer well casing and bearing the last five digits of the API number, shall be tack welded around the top of the outer casing.

25. Cellar, production pads and pipelines shall be removed and the resulting excavations filled with earth and compacted properly to prevent settling.

26. Remaining buried pipelines that cannot be removed shall be purged with clean water. Abandon line by pumping approved cement slurry mixture, weld steel cap on both ends of the line and bury.
EXHIBIT A – Attachment II (continued)
WELL CONDITIONS AND ABANDONMENT SPECIFICATIONS

27. All equipment, casing, or junk that requires removal to implement restoration to lawful conditions shall be removed and properly disposed of in accordance with environmental laws and in accordance with instructions from the Division of Oil and Gas. All liquid wastes shall be removed and properly disposed.

28. A well History (Form OG 103) shall be filed in duplicate with the Division within 60 days of completing the work and must include a description of the removal or abandonment of the well flow line and any associated piping.
STATE OF CALIFORNIA
NATURAL RESOURCES AGENCY
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

REVISED

FORMAL ORDER TO:
PLUG AND ABANDON WELLS &
RESTORE LEASE CONDITIONS

NO. 1032
Dated: October 18, 2012
Operator: C.R.G. Properties, Ltd. (C0250)

BY
Tim Kustic
STATE OIL AND GAS SUPERVISOR

ORDER NO. 1032
Order to Plug and Abandon Wells & Restore Lease Conditions
# REPORT OF PROPERTY AND WELL TRANSFER

**Field or County:** Long Beach  
**Former owner:** Pacific Energy Res.  
**District:** District 1 (Cypress, California)  
**Date:** July 26, 2000

<table>
<thead>
<tr>
<th>Well Name</th>
<th>API Number</th>
<th>Section Township Range</th>
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<tbody>
<tr>
<td>&quot;Nwlbu&quot; 5-2</td>
<td>037-00397</td>
<td>Sec. 13-4S-13W</td>
</tr>
<tr>
<td>&quot;Nwlbu&quot; 5-3</td>
<td>037-09796</td>
<td>Sec. 13-4S-13W</td>
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<tr>
<td>&quot;Nwlbu&quot; 5-4</td>
<td>037-09797</td>
<td>Sec. 13-4S-13W</td>
</tr>
<tr>
<td>&quot;Nwlbu&quot; 8-3</td>
<td>037-06496</td>
<td>Sec. 13-4S-13W</td>
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<tr>
<td>&quot;Nwlbu&quot; 8-4</td>
<td>037-06415</td>
<td>Sec. 13-4S-13W</td>
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<tr>
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<td>037-22512</td>
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<td>&quot;Nwlbu&quot; 9-2</td>
<td>037-13525</td>
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<td>037-00142</td>
<td>Sec. 13-4S-13W</td>
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<td>&quot;Nwlbu&quot; 9-6</td>
<td>037-00393</td>
<td>Sec. 13-4S-13W</td>
</tr>
</tbody>
</table>

**Description of the land upon which the well(s) is (are) located.**  
See above

**Date of transfer:** May 9, 2000  
**New owner:** C.R.G. Properties, Ltd. C0250  
**Type of organization Corp./Ltd.:**

**Address:** 15332 Antioch Street, Suite 338  
Pacific Palisades, CA 90272  
**Telephone:** (310) 808-9071

**Reported by:** OG34A received 6/2/2000 signed by both parties  
**Confirmed by:** Same as above

**New operator new status:** PA  
**Designation of Agent:** Mark Pender  
**Old operator new status:** PA

** Operator Status Abbreviations **  
- **PA - Producing Active**
- **NPA - No potential, Active**
- **Pl - Potential Inactive**
- **NPI - No potential, Inactive**
- **Ab-Abandoned or No More Wells**

| cc: Update; Envir Dsk; File Conservation Committee Harold W. Bertholf, Inc. LA County Assessor Sacramento EDP Cypress EDP |

**FORM AND RECORD CHECK LIST**

<table>
<thead>
<tr>
<th>Form or Record</th>
<th>Initials</th>
<th>Date</th>
<th>Form or Record</th>
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<tr>
<td>Form OGD121</td>
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<td>Map and Book</td>
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<tr>
<td>Operator Card</td>
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<td>Notice cancellations</td>
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<td>Production Repts</td>
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<td>Data Base</td>
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**Deputy Supervisor:** R. K. Baker  
**Signature:** Floyd M. Leeson  
**Operations Engineer:**
WELL TRANSFER NOTICE

EFFEC MAY 9, 1994, PETRO RESOURCES, INC.
TRANS LONG BEACH NWLBU WELLS
TO PACIFIC ENERGY
SEE OGD156 DATED 5-13-94
REPORT OF PROPERTY AND WELL TRANSFER

<table>
<thead>
<tr>
<th>Field or county</th>
<th>District</th>
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<tbody>
<tr>
<td>Long Beach</td>
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</tr>
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</table>

<table>
<thead>
<tr>
<th>Former owner</th>
<th>Date</th>
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<tbody>
<tr>
<td>Sun Exploration &amp; Production Co.</td>
<td>June 15, 1983</td>
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<table>
<thead>
<tr>
<th>Name and location of well(s)</th>
<th>New owner</th>
<th>Type of organization</th>
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<tbody>
<tr>
<td>NWLBU 5-1 (037-09795) NWLBU 8-1 (037-09792) NWLBU 9-3 (037-09791)</td>
<td>Petro Resources, Inc.</td>
<td>Corp.</td>
</tr>
<tr>
<td>NWLBU 5-2 (037-00397) NWLBU 8-2 (037-09793) NWLBU 9-4 (037-00392)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NWLBU 5-3 (037-09796) NWLBU 8-3 (037-06496) NWLBU 9-5 (037-00142)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NWLBU 5-4 (037-09797) NWLBU 8-4 (037-06415) NWLBU 9-6 (037-00393)</td>
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<tr>
<td>NWLBU 6-1 (037-09788) NWLBU 8-7 (037-22512)</td>
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<tr>
<td>NWLBU 6-2 (037-09789) NWLBU 9-2 (037-13525)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Description of the land upon which the well(s) is (are) located

<table>
<thead>
<tr>
<th>Date of transfer, sale, assignment, conveyance, or exchange</th>
<th>New owner</th>
<th>Address</th>
<th>Type of organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 1, 1983</td>
<td></td>
<td>4200 Easton Drive, Suite 16 Bakersfield, CA 94309</td>
<td>Corp.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>805/323-4118</td>
<td></td>
</tr>
</tbody>
</table>

Reported by
Letter from Sun Exploration & Production Co. dated 5-16-83.
Confirmed by

<table>
<thead>
<tr>
<th>New operator new status (status abbreviation)</th>
<th>Request designation of agent</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA</td>
<td>Joe D. Rose, same address.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Old operator new status (status abbreviation)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA</td>
<td></td>
</tr>
</tbody>
</table>

OPERATOR STATUS ABBREVIATIONS

<table>
<thead>
<tr>
<th>PA - Producing Active</th>
<th>FORM AND RECORD CHECK LIST</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPA - No Potential, Active</td>
<td>Form or record</td>
</tr>
<tr>
<td>PL - Potential Inactive</td>
<td>OGD121</td>
</tr>
<tr>
<td>NP - No Potential, Inactive</td>
<td>OGD140</td>
</tr>
<tr>
<td>Ab - Abandoned or No More Wells</td>
<td>New well cards</td>
</tr>
<tr>
<td>Well records</td>
<td>CP 1-7-83</td>
</tr>
<tr>
<td>Electric logs</td>
<td>CP 1-7-83</td>
</tr>
<tr>
<td>Production reports</td>
<td></td>
</tr>
</tbody>
</table>
Name change from Sun Oil Co. to SUN EXPLORATION & PRODUCTION CO.

1-1-82, Form 156 dated 1-21-82. See ownership file.
REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

Long Beach, California
Oct. 4, 1979

Mr. L. B. Carroll, Jr., Agent
Sun Oil Co.
23928 Lyons Ave.
Newhall, CA 91321

Dear Sir:

Your request dated March 19, 1979, relative to change in designation of well(s) in Sec. 13, T. 4S, R. 13W, S.B B. & M., Long Beach field, Los Angeles County, District No. 1, has been received; and in accordance with Section 3203, Public Resources Code, reading in part as follows:

"* * * The number or designation by which any well heretofore drilled has been known, and the number or designation specified for any well in a notice filed as required by Section 3203, shall not be changed without first obtaining a written consent of the Supervisor."

the proposed change in designation is hereby authorized as follows:

<table>
<thead>
<tr>
<th>Old Designation</th>
<th>API</th>
<th>New Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Oil Operators&quot; 1</td>
<td>037-09792</td>
<td>NWLBU 8-1</td>
</tr>
<tr>
<td>&quot; &quot; 2</td>
<td>037-09793</td>
<td>NWLBU 8-2</td>
</tr>
<tr>
<td>&quot; &quot; 3</td>
<td>037-06496</td>
<td>NWLBU 8-3</td>
</tr>
<tr>
<td>&quot; &quot; 4</td>
<td>037-06415</td>
<td>NWLBU 8-4</td>
</tr>
<tr>
<td>&quot;Pool&quot; 1</td>
<td>037-09795</td>
<td>NWLBU 5-1</td>
</tr>
<tr>
<td>&quot; &quot; 2</td>
<td>037-00397</td>
<td>NWLBU 5-2</td>
</tr>
<tr>
<td>&quot; &quot; 3</td>
<td>037-09796</td>
<td>NWLBU 5-3</td>
</tr>
<tr>
<td>&quot; &quot; 4</td>
<td>037-09797</td>
<td>NWLBU 5-4</td>
</tr>
<tr>
<td>&quot;Amebco&quot; 1</td>
<td>037-09788</td>
<td>NWLBU 6-1</td>
</tr>
<tr>
<td>&quot; &quot; 2</td>
<td>037-09789</td>
<td>NWLBU 6-2</td>
</tr>
<tr>
<td>&quot;Flood Control&quot; 2</td>
<td>037-13525</td>
<td>NWLBU 9-2</td>
</tr>
<tr>
<td>&quot; &quot; 3</td>
<td>037-09791</td>
<td>NWLBU 9-3</td>
</tr>
<tr>
<td>&quot; &quot; 4</td>
<td>037-00392</td>
<td>NWLBU 9-4</td>
</tr>
<tr>
<td>&quot; &quot; 5</td>
<td>037-00142</td>
<td>NWLBU 9-5</td>
</tr>
<tr>
<td>&quot; &quot; 6</td>
<td>037-00393</td>
<td>NWLBU 9-6</td>
</tr>
</tbody>
</table>

RNS:sc

cc: Update Center EDP Conservation Committee

By Richard W. Steele
Acting Deputy Supervisor
R. A. Ybarra
# REPORT OF PROPERTY AND WELL TRANSFER

**Field or county:** Long Beach  
**District:** 1

**Former owner:** General Exploration Co.  
**Date:** February 15, 1979

### Name and location of well(s)

<table>
<thead>
<tr>
<th>Section</th>
<th>Well Name</th>
<th>Location</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sec. 11-4S-13W</td>
<td>&quot;Dominguez&quot; 2-10</td>
<td>(037-11859)</td>
<td></td>
</tr>
<tr>
<td>Sec. 13-4S-13W</td>
<td>&quot;Flood Control&quot; 6</td>
<td>(037-00393)</td>
<td></td>
</tr>
<tr>
<td>Sec. 13-4S-13W</td>
<td>&quot;Oil Operators&quot; 1</td>
<td>(037-09792)</td>
<td></td>
</tr>
<tr>
<td>Sec. 13-4S-13W</td>
<td>&quot;Oil Operators&quot; 2</td>
<td>(037-09793)</td>
<td></td>
</tr>
<tr>
<td>Sec. 13-4S-13W</td>
<td>&quot;Oil Operators&quot; 3</td>
<td>(037-06496)</td>
<td></td>
</tr>
<tr>
<td>Sec. 13-4S-13W</td>
<td>&quot;Oil Operators&quot; 4</td>
<td>(037-06415)</td>
<td></td>
</tr>
<tr>
<td>Sec. 13-4S-13W</td>
<td>&quot;Pool&quot; 1</td>
<td>(037-09795)</td>
<td></td>
</tr>
<tr>
<td>Sec. 13-4S-13W</td>
<td>&quot;Pool&quot; 2</td>
<td>(037-00397)</td>
<td></td>
</tr>
<tr>
<td>Sec. 13-4S-13W</td>
<td>&quot;Pool&quot; 3</td>
<td>(037-09796)</td>
<td></td>
</tr>
<tr>
<td>Sec. 13-4S-13W</td>
<td>&quot;Pool&quot; 4</td>
<td>(037-09797)</td>
<td></td>
</tr>
<tr>
<td>Sec. 14-4S-13W</td>
<td>&quot;Dominguez&quot; 1</td>
<td>(037-11858)</td>
<td></td>
</tr>
</tbody>
</table>

### Description of the land upon which the well(s) is (are) located

**Sec. 14-4S-13W**  
"Dominguez" 1

**Date of transfer, sale, assignment, conveyance, or exchange:** Dec. 1, 1978

**New owner:** Sun Oil Company  
**Address:** 23928 Lyons Avenue, Newhall, CA 91321

**Type of organization:** Corporation  
**Telephone No:**

**Reported by:** Former operator  
**Confirmed by:** New operator

### Old operator new status (status abbreviation)

<table>
<thead>
<tr>
<th>Status</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA</td>
<td></td>
</tr>
<tr>
<td>AB</td>
<td></td>
</tr>
</tbody>
</table>

### New operator new status (status abbreviation)

<table>
<thead>
<tr>
<th>Status</th>
<th>Request designation of agent</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA</td>
<td></td>
</tr>
</tbody>
</table>

**Deputy Supervisor:**  
**Signature:**

**FORM AND RECORD CHECK LIST**

| Form or record | Initials | Date      | | Form or record | Initials | Date      |
|----------------|----------|-----------| |----------------|----------|-----------|
| NPA - No Potential, Active | Form OGD121 | | | | | |
| PI - Potential Inactive | Form OGD14B | | | | | |
| Ab - Abandoned or No More As is | New well cards | | | | | |
| Well records | | | | | | |
| Electric logs | | | | | | |
| Production records | | | | | | |
| EDP | | | | | | |
| EDP Update | | | | | | |

**OREO 11-17 254274**
DIVISION OF OIL AND GAS

CHECK RECORDS RECEIVED AND WELL STATUS

Company: GENERAL EXPLORATION
Well No.: "OH-OPERATORS" 3
API No.: 037-06496 Sec. 13, T. 4S, R. 18W, LA B&M
County: LA Field: LONG BEACH

RECORDS RECEIVED DATE
Well Summary (Form OG100)
History (Form OG103) 5-27-77
Core Record (Form OG101)
Directional Survey
Sidewall Samples
Other
Date final records received
Electric logs:

STATUS
Producing - Oil
Idle - Oil
Abandoned - Oil
Drilling - Idle
Abandoned - Dry Hole
Producing - Gas
Idle - Gas
Abandoned - Gas
Gas-Open to Oil Zone
Water Flood Source

DATE 4-24-77
RECOMPLETED
REMARKS

ENGINEER'S CHECK LIST
1. Summary, History, 
   Core record (dupl.)
2. Electric Log
3. Operator's Name
4. Signature
5. Well Designation
6. Location
7. Elevation
8. Notices
9. "TM" Reports
10. Casing Record
11. Plugs
12. Surface Inspection
13. Production

CLERICAL CHECK LIST
1. Location change (F-OGD165)
2. Elevation change (F-OGD165)
3. Form OGD121
4. Form OGD159 (Final Letter)
5. Form OGD150b (Release of Bond)
6. Duplicate logs to archives
7. Notice of Records due(F-OGD170)

RECORDS NOT APPROVED
Reason:

RECORDS APPROVED

RELEASE BOND
Date Eligible 5-27-77
(Use date last needed records were received.)

MAP AND MAP BOOK
NC

OGD2 (3-77-GSR1-4M)

LONG BEACH OFFICE - USE REVERSE SIDE
History of Oil or Gas Well

Operator: GENERAL EXPLORATION CO.  
Field: NORTH LONG BEACH
Well No. 5-35, OIL OPERATORS 3-13, T. 48, R. 13W, SB B. & M.

Date: 5-35, 1977  
Signed: Production Superintendent

4021 N. PACIFIC LONG BEACH  
Title: 213-636-1629

(Address)  
(Telephone Number)  
(President, Secretary or Agent)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailer tests and initial production data.

Date

4-16-77  Rigged up well servicing unit. Pulled rods & tubing. Ran bailer and tagged fill at 5870'. Installed BOP.

4-17-77  Ram Baker scraper and brushes in hole. Tested tubing to 5000psi. Rigged up Dresser Atlas. Ran correlation log and perforated 2 hpf as fellows: 4740'-4765'; 4775' - 4707'; 4792' - 4810'.

4-18-77  Ram scraper through new perfs. Ran wash tool with retrievomatic packer to top of liner.

4-19-77  Washed perfs with acid mixture
A. 10 gal/ft 15% BJ One shot (15% solvent)
B. 15 gal/ft 12-3 4CL-HF One shot (10% Solvent)
C. 10 gal/ft #1 Diesel Fuel containing 10% EGMBE Mutual Solvent

4-20-77  Continued washing perfs. Surged perfs with wash tool, pulled out, ran in hole with suction washer.

4-21-77  Suction washed perfs. Ran bailer, tagged fill at 5849!

4-22-77  Ran tubing and rods. Put well on production.

4-23-77  Well did not pump up.

4-24-77  Pulled rods and pump. Barrel unscrewed, ran new pump. Put well back on production.

32.2 BOPD  25.7 BWPD  45.1% GUT
DIVISION OF OIL AND GAS

Help of Oil or Gas Well

Operator: MEXICALI ENTERPRISE CO., INC.

Reservoir: OIL-301

Area: T-29, R-16, Sec. 14, T-30, R-16

Production underground:

Date: 2-25-1938

Initial Sale:

T-29, R-16

Well:

Capitol Oil Company, 500

Amount of Gas:

80,000 cu. ft.

Received:

Long Beach, Ca.

May 27 12 45 p.m. 77

RECEIVED
History of Oil or Gas Well

Operator: GENERAL EXPLORATION CO.  Field: NORTH LONG BEACH

Well No. OIL OPERATORS #3, Sec. 13, T. 4S, R. 13W, SB B. & M.

Date: 5-25, 1977

Signed: Robert Andrews

4021 N. PACIFIC  213-636-1629  Title: Production Superintendent
(Address)  LONG BEACH  (Telephone Number)
(President, Secretary or Agent)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

OIL OPERATORS 3 CONTINUED

Well conditions at completion of work:

TD 1st hole: 5450'  TD 2nd hole 5833' (redrilled from 3142' through 8 5/8" casing window 3139' - 3174'); TD 3rd hole, 6540' (redrilled from cement plug 5094')

Casing Detail:
13-3/8" C 765'
8-5/8" C 3139'
5-1/2" C 5964', top 3043' (lap wse), CP 4393'

Perfs 4394-95 wsd
4407'-4444'; 4458' - 4498'; 4565' - 4616';
4740'-4765'; 4775' - 4787'; 4792' - 4810';
5397'-5430'; 5492' - 5707'; 5711' - 5728';
5733'-5752'; 5794' - 5808'; 5812' - 5827'

Date

Received
Dear Sir:

Your proposal to rework Well No. "Oil Operators" 3, Section 13, T. 48, R. 13W, S.B. B. & M., Long Beach Field, Los Angeles County, dated 6/15/76, received 6/15/76, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment with a minimum 2000 psi working pressure shall be installed and maintained in operating condition during all stages of perforating.

2. Well records, under Sec. 3215 of the Public Resources Code, are received 60 days after recompletion of the well.

RFC:dr

Blanket Bond

5/25/77

Graves/Crider

Work done history
will be filed

HAROLD W. BERTHOLF,
State Oil and Gas Supervisor

By MB.alderd, Deputy
Long Beach, California May 4, 1976

Mr. Robert L. Graves, Agent
General Exploration Co.
4021 N. Pacific Place
Long Beach, CA 90806

Gentlemen:

Dear Sir:

I have received your notices dated April 15, 1976, of notice of intention to rework Well No. "Pool" 2 & "Oil Operators" 3.


Your notices to rework cannot be considered until a surety bond in the sum of $5,000.00 has been filed for each well. Operations should not be started until the approval of this Division has been received. This will ensure that you have notice of our requirements.

The notices are being returned to you for signatures. Please return these signed notices with the bond.

HAROLD W. BERTHOLF
State Oil and Gas Supervisor

By     M. B. Arwood
Deputy Supervisor

Enc.
(2nd request 6-3-76)

OG113 (12-73-GSR1-1M)
DIVISION OF OIL AND GAS

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given before work begins; one copy only

Long Beach, Calif. April 15, 1976

DIVISION OF OIL AND GAS

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of deepening, redrilling, plugging or altering casing at Well No. "Oil Operators" 3

Lease

Sec. 13, T. 45, R. 13 W., S.B. & M.

Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

1. Total depth. 6540' PBTD - 5964'

2. Complete casing record, including plugs:

- 13 7/8" c 765' 8 5/8" c 3139' (Milled for Window)
- 5 1/2", 15.5#, 55 c 3043' to 5964'

- Perfs 4394-95 (wso); 4407-4444; 4458-4498; 4562-4616;
  5397-5430; 5692-5707; 5797-5728; 5733-5752;
  5794-5808; 5812-5827

3. Last produced. 4/15/76 9.2 (Oil, B/D) 14.9 (Water, B/D) (Gas, Mcf/D)

The proposed work is as follows:

1. Pull Pump, Rods, & Tubing
2. Perforate following intervals
   - 4740'-4765'
   - 4775'-4797'
   - 4792'-4810'
3. Return well to production

Remarks

4821 Pacific Place
Long Beach, CA 90808
(813-424-8025)

General Exploration Co
By: Robert Frame
**WORK PERFORMED:**

- Drill [ ]
- Redrill [ ]
- Deepen [ ]
- Plug [ ]
- Alter casing [ ]
- Water flood [ ]
- Water disposal [ ]
- Abandon [ ]
- Other [ ]

**STATUS:**

- Producing [ ]
- Recomp. prod. [ ] 6-13-68
- Water flood [ ]
- Water disposal [ ]
- Abandoned [ ]
- Other [ ]

**MAP AND BOOK:** NC

**RECORDS FILED & DATE:**

- Clerk [ ]

- Summary (dup.) [ ]
- Log & Core (dup.) [ ]
- History (dup.) 7/3/68 [ ]
- E-log [ ]
- Radio log [ ]
- D. Survey [ ]
- Other [ ]

(Check records for signature and correct name of operator or well, S.T.R. and field.)

**LOCATION:**

- Notice states [ ]

**ELEVATION:**

- Notice states [ ]

**PRODUCTION REPORTS:**

- (If production reports not received, make notation and inform Sr. Steno. when rec'd.)

**FILE CLEARED:** F 121 [ ]

**BOND:** No bond required [ ]

**FINAL LETTER:** F 159 [ ]

**RECORDS & REQUIREMENTS CHECKED:** Eng. [ ]
History of Oil or Gas Well

Operator: General Exploration Co. of Calif.

Well No. "Oil Operators" 3, Sec. 13, T. 4S, R. 13W, SB B. & M.

Date: July 2, 1968

Signed: R. S. Ballantyne, Jr.

Address: 417 S. Hill Street

Los Angeles, 90013

Telephone: 628-2156

Title: Vice President

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date: 1968

4/30

Pumped 34 bbl. net 24.3° oil and 2 bbl. water with 60 Mcf gas.

5/1

Blew down gas off well. Moved in production unit and pulled rods and tubing.

Ran bailer and found fill at 4875'. Bailed sticky mud to 5890'. Installed B.O.P.E.

With bailer found fluid level at 3030' and bottom at 5890'. Pumped 100 bbl. salt water into casing - equivalent to 1700' inside the 8-5/8" casing. McCullough jet perforated (omega jets) three holes per foot 5827-5812' and 5808-5794' sticking the second gun. While working gun loose, fluid surfaced and pressure built up to 900# on lubricator before recovering gun. Closed off preventer, removed lubricator and tubing stripper, and installed blank flange on top of preventer. Installed needle bean in flow line from 2" outlet in casing head. Flowed 27 net bbl. oil in 19 hrs. on 14/64" bean, 640 Mcfd. 860#.

5/2

840 Mcf, 770#, 15/64", Laid down tubing and rods. Moved out pulling unit.

Well flowed gas with occasional slugs of oil which increased in volume as the pressure declined. The well was practically dead 6/9 and salt water was pumped into the well. During the interval from 5/2 to 6/9 the well produced 235 net bbl. of 25.0° oil and 17,000 Mcf. gas. There was no appreciable cut.

5/3

Pumped salt water into well at intervals. Well dead.

5/4-6/9

Well flowing gas with occasional slugs of oil which increased in volume as the pressure declined. The well was practically dead 6/9 and salt water was pumped into the well. During the interval from 5/2 to 6/9 the well produced 235 net bbl. of 25.0° oil and 17,000 Mcf. gas. There was no appreciable cut.

6/10-11

Moved in production unit. Rigged up bailing gate above B.O.P.E. Continued

6/12-13

pumping water into casing as required to keep hole nearly full throughout this operation. Ran bailer and located fill at 5885'. Rigged up lubricator and McCullough perforated two holes per foot: 5752-5733', 5728-5712' and 5707-5692', and perforated three holes per foot: 5430-5397'. Omega jets in 4" steel carrier were used throughout. Ran pump on 2-7/8" tubing to 4312' with gas anchor extending to 4348'. Ran rods. Moved out unit.

6/13

Well pumped water and 50 bbl. oil in 16 hrs with casing pressure building to 90#.

6/17

Pumped 29 bbl. oil and 26 bbl. water, 20#/300-540#.

6/22

Pumped 11 bbl. oil and 8 bbl. water, 20#/120-130#, 315 Mcf.

6/27

Pumped 22 bbl. oil and 6 bbl. water, 20#/110-120#, 296 Mcf.

WELL CONDITION AT COMPLETION OF WORK:

TD 1st hole 5450', TD 2nd hole 5833' (redrilled from 3142' through 8-5/8" casing window 3139-3174'), TD 3rd hole 6540' (redrilled from cement plug 5094').

Casing Condition:

13-3/8" C 765'
8-5/8" C 3139'
5-1/2" C 5964', top 3043' (lap WSO), CP 4393'. Perfs. 4393-4394' (WSO), 4407-4444', 4458-4498', 4562-4616', 5397-5430', 5692-5707', 5711-5728',
DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator: General Exploration Co. of Cal.  Field: Long Beach

Well No. "Oil Operators" 3  Sec. 13, T. 4S, R. 13W  SB  B. & M.

Date: July 2, 1968

(RS Ballantyne, Jr.)

Signed

417 S. Hill Street
Los Angeles, 90013  628-2156

Vice President

(Adresse) (Telephone Number)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altertig of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, killing tests, shooting and initial production data.

Date:

5733-5752', 5794-5808' and 5812-5827'. Plug 5964-5922' w/cem. and 5922-5890' w/sand.

Sidetracked:
8-5/8" C 3986', top 3174'. Plug 3174' (and open hole up to 3142')
5-1/2" C 5461', top 3928' (lap WSO).  Bad 4195 and 5107', plgd.
Perf. & plgd. 4080-4158', 4190-4205', 4852-4950', 5140-5180', 5190-5200' and 5306-5355'.  Plug 3928'.
Mr. G. G. Willis
417 So. Hill Street
Los Angeles, California 90013

Inglewood, Calif.
April 30, 1968

Agent for GENERAL EXPLORATION COMPANY OF CALIFORNIA

Dear Sir:

Your proposal to alter casing at Section 13, T. 4 S., R. 13 W., S.B. & M., Long Beach, Los Angeles County, Field, dated Apr. 25, 1968, has been examined in conjunction with records filed in this office. Records in addition to, or at variance with, those shown in the notice.

5-1/2" cp 4393'. TD 1st hole 5450', TD 2nd hole 5833'.

With reference to your proposal our decision is as follows:

DECISION
THE PROPOSAL IS APPROVED.

WLI: nw

cc Company

No Bond Required

F. E. KASLINE
E. R. MURRAY-AARON, State Oil and Gas Supervisor

By, Deputy
Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given before work begins; one copy only

Los Angeles, Calif. April 25, 1968

INGLEWOOD, CALIFORNIA

DIVISION OF OIL AND GAS

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of [crossed out words]

"Oil Operators" 3

Sec. 13, T. 4 S., R. 13 W., S.B. B. & M.

Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

1. Total depth. 6540'.

2. Complete casing record, including plugs:

(Depts from present KB of 60')

13-3/8' C 765'
8-5/8' C 3139'
5-1/2' C 5964', top 3043' (lap WSO). Perfs. 4393-4394' (WSO), 4407-4444', 4458-4498', 4562-4616', 5692-5707', 5711-5728' and 5733-5752'.

Sidetracked:
8-5/8' C 3986', top 3174'. Plug 3174' (and open hole up to 3142')
5-1/2' C 5446', top 3928' (lap WSO). Bad 4195 and 5107', pldg.
Perf. & pldg. 4080-4158', 4190-4205', 4852-4950', 5140-5180', 5190-5200' and 5306-5355'. Plug 3928'.

3. Last produced. 4/25/68

<table>
<thead>
<tr>
<th>(Oil, b/D)</th>
<th>(Water, b/D)</th>
<th>(Gas Mcf/D)</th>
</tr>
</thead>
<tbody>
<tr>
<td>34</td>
<td>2</td>
<td>60</td>
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</tbody>
</table>

The proposed work is as follows:

1. Take well off production.
2. Starting May 1, 1968, pull rods and tubing.
3. Rig up B.O.P.E. and lubricator and pump 100 bbl. of salt water into casing.
5. Return well to production.

417 S. Hill St., Los Angeles 90013

General Exploration Company of California

Address one copy of notice to Division of Oil and Gas in district where well is located

R.S. Ballantyne, Jr., Vice President

(Name of Operator)
<table>
<thead>
<tr>
<th>WORK PERFORMED:</th>
<th>STATUS:</th>
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<tbody>
<tr>
<td>Drill ______ Redrill ______ Deepen ______</td>
<td>Producing ______</td>
</tr>
<tr>
<td>Plug ______ Alter casing ______</td>
<td>Recomp. prod. 7-28-67</td>
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<tr>
<td>Water flood ______ Water disposal ______</td>
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<tr>
<td>Abandon ______</td>
<td>Water disposal</td>
</tr>
<tr>
<td>Other ______</td>
<td>Abandoned ______</td>
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<tr>
<th>RECORDS FILED &amp; DATE: Clerk M.T.</th>
<th>RECORDS &amp; REQUIREMENTS CHECKED: Eng. 012</th>
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<tr>
<td>Summary (dup.) ______</td>
<td>______</td>
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<tr>
<td>Log &amp; Core (dup.) 8/10/67 ______</td>
<td>______</td>
</tr>
<tr>
<td>History (dup.) 8/10/67 ______</td>
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<tr>
<td>E-log (2 copies) 3138'-6536' 8/10/67 ______</td>
<td>______</td>
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<tr>
<td>Radio log ______</td>
<td>______</td>
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<tr>
<td>D. Survey ______</td>
<td>______</td>
</tr>
<tr>
<td>Other ______ (Check records for signature and correct name of operator or well, S.T.R. and field.)</td>
<td>______</td>
</tr>
<tr>
<td>Location ______ Notice states ______</td>
<td>______</td>
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<tr>
<td>Elevation ______ Notice states ______</td>
<td>______</td>
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<tr>
<td>Production Reports ______</td>
<td>______</td>
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<tr>
<td>______ (If production reports not received, make notation and inform Sr. Steno. when rec'd.)</td>
<td>______</td>
</tr>
<tr>
<td>If stimulation or disposal well: ______ Form 121 ______ Folder ______</td>
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<td>End premium year ______ Release requested ______ (Check)</td>
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<td>Bond superseded ______ (one) Well abandoned ______</td>
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</tbody>
</table>
DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR: General Exploration Company  FIELD: Long Beach

Well No. "Oil Operators" 3, Sec. 13, T. 4 S., R. 13 W., S.B.B. & M.

Date: July 31, 1967  Signed: R. S. Ballantyne, Jr.

417 South Hill St., Los Angeles 90013  628-2156  Title: Vice President

(Address)  (Telephone Number)  (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date: 1967

Note: Depth measurements taken from present K.B. elevation of 60' which is 6' higher than original datum. Ground elevation is 48'.

6/30
Moved in, rigged up drilling equipment, pulled and laid down tubing, installed B.O.P.E. (Graham Drilling Company).

7/1-2
7-5/8" bit and made up 3-1/2" drill pipe. Found top of 5-1/2" liner at 3932'.
7-5/8" casing section mill, located casing collars at 3190', 3145' and 3101', milled section in 8-5/8" casing from 3139' to 3174'. Opened window to 12-3/4". Ran 284' of 2-3/8" tubing stinger on drill pipe. Cleaned out sand inside 5-1/2" liner to 4165'.
Laid 30-sack class G cement plug with 2% CaCl₂ from 4147'. (Estimated top of plug at 3908'.) Laid 70-sack class G plus 20% sand with 0.5% CFR-2 from 3233' with rotating tubing scratchers opposite window. Pulled to 2850' and circulated pipe clean. Held 1200# for 5 minutes - no pressure drop. Found top of cement at 3077' and cleaned out to 3142'.

7/3-13
Drilled 7-5/8" hole to 5833'. 5" Dynadrills were used as follows: 3142-3240', 4257-4375', and 4487-4575'. The interval 4468-4487' was cored.

7/13
Drilled Schlumberger I.E.S. 5833-3139' and C.D.M. 5833-3700'. Laid 182 CF (160 sacks class G, 30 sacks sand, 5 sacks salt, 0.5% CFR-2) plug through 461' stinger of tubing on drill pipe from 5460'.

7/14
7-5/8" bit and hit bridge at 4135', cleaned out to 4174' and lost circulation.
7-5/8" casing to 3123' and regained circulation. Ran to top of cement at 4997' and cleaned out to 5012' without circulation. Pulled up again to 3123' and introduced rubber and fibrous lost circulation material into mud system. Regained circulation and ran to 5012' circulating in stages. Drilled out cement to 5094' with full returns.

7/15-18
Drilled 7-5/8" hole to 6008'. A 5" Dynadrill was used from 5094' to 5147'. Ran Schlumberger I.E.S. 6008-4850'.

7/18-20
Drilled 7-5/8" hole to 6540' (T.D.). Ran Schlumberger I.E.S. 6540-6008'.

7/20
Drilled to T.D. and conditioned mud. Ran 76 joints of 5-1/2", 15.5#, J-55 liner with Burns liner hanger (2921', including hanger) on 3-1/2" drill pipe. With liner hanging at 5964', (top at 3043') cemented with 743 C.F. 1:1 class G cement pozmix slurry with 2% gel and 0.5% CFR-2 and 10% salt in mix water. 500 gal. mud flush and 20 C.F. water preceded the slurry. Displaced with 530 CF mud (509 CF estimated) and plug was not observed to hit baffle. Pulled stinger up to 2980' and backscuttled 180 CF (127 CF in drill pipe) without cement returns.
History of Oil or Gas Well

OPERATOR: General Exploration Company

FIELD: Long Beach

Well No.: "Oil Operators" 3, Sec. 13, T. 4 S., R. 13 W., S.B. B. & M.

Date: July 31, 1967

Signed: R. S. Ballantyne, Jr.

417 South Hill St., Los Angeles 90013

Title: Vice President

Address: (Same as above)

Date

7/21 Ran 7-5/8" bit and 8-5/8" casing scraper. Encountered 10' soft cement bridge at 1000' and drilled out same. Pushed plug to top of hard cement at 2832'. Drilled out cement to top of liner at 3043'. Conditioned mud and held 1380# on casing for 5 minutes. Ran 4-3/4" bit and 5-1/2" casing scraper. Drilled out cement inside liner from 3043' to 3083'. Ran to 5922', top of float collar, pushing something (probably rubber liner wiper plug) ahead the last 1000'. Conditioned mud and held 1530# on casing for 5 minutes.

7/22 Ran Cook tester on drill pipe and set packer at 3009' with tail to 3022'. Open 1 hour, 2 minute initial light blow and dead thereafter. Recovered net rise of 45' drilling fluid. Lap test approved by D.O.G. Ran McCullough gamma-bond cement log 5910-3900' and perforated four 1/2" jet holes 4394-4393'. Ran Cook tester on 1411' of 2-7/8" tubing below drill pipe. Set packer at 4366' with tail piece to 4377'. Open 1 hour. Medium, slightly diminishing blow throughout test. Recovered 1470' slightly muddy water down to salty (476 g/g) water.

7/23 Ran Baker shoe squeeze tool on tubing and set packer at 4094' with tail to 4187'. Broke down formation with 3500# and squeezed 33 sacks of 50 sacks class G cement mixed at a final pressure of 3000# through perforations. Found top of cement at 4243' and drilled out cement running out of it at 4425'. Perforated four 1/2" jet holes 4394-4395' with McCullough steel carrier. Ran Cook tester on tubing/drill pipe and set packer at 4366' with tail to 4377'. Open 1 hour-initial 2 minute weak blow and dead thereafter. Recovered a rise of 40' drilling fluid. W.S.O. approved by D.O.G. Ran 4-3/4" bit to 5922' and changed mud over to 67# salt water. Laid down 3-1/2" drill pipe. Ran McCullough 4' jet carrier and perforated four 1/2" jet holes per foot as follows: 5752-5733', 5728-5711' and 5707-5692.

7/25 Ran Guiberson packer on combination string of 2-7/8" tubing and set with bottom of packer at 4337'. Removed B.O.P.E. and rigged up surface equipment. Swabbed well and when pulling from 2200' the sand line pulled out of socket and swab dropped. Opened valve in packer and equalized fluid. Ran overshot but could not recover swab. Installed B.O.P.E., pulled and broached tubing. Recovered swab on bottom.

7/26 Re-ran Guiberson packer as above. Swabbed well working down to 4000'. After swabbing 67 bbl. of water with trace of oil and with well gassing, placed on a 22/64" bean at 9:00 p.m.

7/27 Rigged up lubricator and McCullough perforated four holes per foot with 2-1/8" JRL Ceram-jets as follows: 4616-4562', 4498-4458' and 4444-4407'. Completed perforating at 10:00 p.m.
DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator: General Exploration Company
Field: Long Beach

Well No.: "Oil Operators" 3, Sec. 13, T. 4 S., R. 13 W., S.B.B. & M.

Date: July 31, 1967

417 South Hill St., Los Angeles 90013

Title: Vice President

Moved out drilling equipment. Flowed 94 bbl. 25.3° oil, 4.0%, 140#/pkr., 570 Mcf.
103 bbl. 25.2°, 6.5%, 120#/pkr., 555 Mcf.

Casing Record at Completion of Work:

(Depts from present KB of 60') T.D. 6540
13-3/8" C 765'
8-5/8" C 3139'

Sidetracked:
8-5/8" C 3986', top 3174'. Plug 3174' (and open hole up to 3142')
**FORMATIONS PENETRATED BY WELL**

<table>
<thead>
<tr>
<th>Depth To</th>
<th>Thickness</th>
<th>Drilled or Cored</th>
<th>Recovery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top of Formation</td>
<td>Bottom of Formation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| 4468'             | 4487'     | 21'              | 12.5     |

**DESCRIPTION**

**CORE #1**

Oil sand, unbroken, firm to soft, mostly fine to medium fine poorly sorted. Locally finely pebbly, light brown with grayish cast on broken surfaces light gold to medium buff fluorescence, pepper and salt on broken surfaces (mud penetration?). In top 0.2' two 1/16" ribbons gray sand at 50-55° under gray spot with pebbles. No fluorescence. Probably related to turbidity bedding. At 4.0', one 1/64" ribbon of non-fluorescent clay at about 40°, could be bedding parting. Dip not reliable. (No samples taken)
Mr. C. G. Willis  
417 S. Hill Street  
Los Angeles, California 90013  

Inglewood, Calif.  
July 27, 1967  

Agent for GENERAL EXPLORATION CO. OF CALIF.

Dear Sirs:  
(037-06496)  

Your well No. "Oil Operators" 3, Sec. 13, T. 4 S, R. 13 W, S.B.B & M. Long Beach Field, in Los Angeles County, was tested for water shut-off on July 23, 1967. Mr. S. Cordova, Engineer, designated by the supervisor was present from 8:30 p.m. to 9:30 p.m. as prescribed by law; there were also present J. Dedmon, Drilling Foreman & R. Morgan, Driller.

Shut-off data: 5-1/2 in. 15.5 lb. casing was re-cemented through perforations at 4393 ft. on July 23, 1967 in 7-5/8 in. hole with 50 sacks of cement of which 33 sacks was squeezed away under a final pressure of 3000 Psig calculated to fill behind casing to 4366 ft. below surface.

Casing record of well: 13-3/8" cem. 765'; 8-5/8" cem. 3986'; window 3139'-3174'; sidetracked @ 3142'; 5-1/2" cem. 3043'-5964'; cp 4393'; perf. 4393' WSO. TD 1st inf. hole 5850'; TD 2nd hole 5833'.

Present depth 6540 ft. cmt. bridge 5964 ft. to 5922 ft. Cleaned out cmt. 4243 ft. to 4425 ft. for test. A Cook tester was run into the hole on 2-7/8 in. tubing, with 5/8 in. bean, was open for 1 hr. and 4366 ft. with tailpiece to 4377 ft. Tester valve, with 5/8 in. bean, was open for 1 hr. and 4366 ft. with tailpiece to 4377 ft. During this interval there was a weak blow for 2 minutes & no blow thereafter.

Mr. -------------------------- reported:

MR. S. CORDOVA, ENGINEER, WAS PRESENT AT THE WELL FROM 5:00 P.M. TO 6:00 P.M. ON JULY 22, 1967 AND MR. L. STANDER REPORTED THAT THE 5-1/2" casing was jet-perforated with four, 1/2" holes at 4393' for the water shut-off test.

THE ENGINEER NOTED THAT when the tubing was removed, 1470' of watery drilling fluid and salt water was found above the tester.

MR. S. CORDOVA, ENGINEER, WAS PRESENT AT THE WELL FROM 8:30 P.M. TO 9:30 P.M. ON JULY 23, 1967 AND MR. DEDMON REPORTED:
1. The 5-1/2" casing was re-cemented as noted above.
2. The 5-1/2" casing was jet-perforated with four, 1/2" holes at 4393'.

THE ENGINEER NOTED:
1. When the tubing was removed, 40' of drilling fluid was found above the tester.
2. The pressure charts indicated the tester tool functioned properly.

THE 5-1/2" SHUT-OFF AT 4393' IS APPROVED.

SC:nw

cc Company

E. R. MURRAY-AARON  
State Oil and Gas Supervisor  

By [Signature]  
Deputy
Special Report on Operations Witnessed

No. T. 167-669

Mr. C. G. Willis
417 S. Hill Street
Los Angeles, California 90013

Agent for GENERAL EXPLORATION CO. OF CALIF.

Inglewood, Calif.
July 27, 1967

Dear Sir:

Operations at well No. "Oil Operators" 3, Sec. 13, T. 4 S, R. 13 W, S.B. B & M. Long Beach Field, in Los Angeles County, were witnessed on July 22, 1967. Mr. S. Cordova, Engineer, representative of the supervisor was present from 7:30 a.m. to 8:20 a.m. There were also present R. Ballantyne, Engineer & J. Dedmon, Drilling Foreman.

Present condition of well: 13-3/8" cam. 765'; 8-5/8" cam. 3996' window 3139'-3174', sidetracked @ 3142'; 5-1/2" cam. 3043'-5964'. TD 6540'. TD 1st hole 5450'. TD 2nd hole 5833'.

The operations were performed for the purpose of demonstrating the effectiveness of the seal between the 8-5/8" and 5-1/2" casings.

Mr. Ballantyne reported:

1. A window was milled in the 8-5/8" casing from 3139' to 3174', and the hole was opened to 12-3/4" in that interval.
2. Sand fill was cleaned out of the 5-1/2" casing to 4165'.
3. On July 2, 1967, 30 sacks of cement was pumped into the hole through drill pipe and tubing hanging at 4147', calculated to fill to 3908'.
4. On July 2, 1967, 70 sacks of cement mixed with 20% sand was pumped into the hole through drill pipe and tubing hanging at 3233'.
5. Cement was drilled out of the hole from 3077' to 3142'.
6. A 7-5/8" hole was redrilled from 3142' to 5833'.
7. On July 13, 1967, 150 sacks of cement mixed with 20% sand was pumped into the hole through drill pipe and tubing hanging at 5460'.
8. Cement was drilled out of the hole from 4997' to 5094'.
9. A 7-5/8" hole was redrilled from 5094' to 6540'.
10. On July 20, 1967, 5-1/2", 15,5 lb. casing was cemented from 3043' to 5964' with 743 cubic feet of cement slurry (1:1 pozmix, 2% gel).
11. Cement was drilled out of the 8-5/8" casing to 3043' and the 5-1/2" casing was cleaned out to 5922'.
12. A Cook tester was run into the hole on 3-1/2" drill pipe and packer set at 3009', with tailpiece to 3020'.
13. The tester valve with 5/8" bean was open for 1 hr. During this interval there was a weak blow for 2 minutes and no blow thereafter.

THE ENGINEER NOTED:
1. When the drill pipe was removed, 45' of drilling fluid was found above the tester.
2. The pressure charts indicated the tester tool functioned properly.

THE OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED and indicate that no fluid has access to the well from the annulus between the 8-5/8" and 5-1/2" casings.

E. R. MURRAY-AARON
State Oil and Gas Supervisor

By [Signature]

cc Company

[Handwritten note]
Mr. C. G. Willis  
417 S. Hill Street  
Los Angeles, California 90013  
Inglewood, Calif.  
July 5, 1967

Agent for GENERAL EXPLORATION CO. OF CALIF.

Dear Sir:

Your proposal to redrill Well No. "Oil Operators" 3, Section 13, T. 4 S., R. 13 W., S.B. & M., Long Beach Field, Los Angeles County, dated June 27, 1967 received June 29, 1967 has been examined in conjunction with records filed in this office. Present conditions as shown by the records and the proposal are as follows:

THE NOTICE STATES
"The present condition of the well is as follows:
1. Total depth. 5450
2. Complete casing record, including plugs:
13-3/8" C 765', 8-5/8" C 3996', WSO
   Plug 4159'. Perf. 4080-4158'.
3. Last produced.
<table>
<thead>
<tr>
<th>Date</th>
<th>Oil</th>
<th>Water</th>
<th>Gas</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/12/66</td>
<td>10</td>
<td>182</td>
<td></td>
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</tbody>
</table>

PROPOSAL
"The proposed work is as follows:
1. Move in drilling equipment, pull tubing, install BOP and fill hole with mud.
2. Mill out 30-foot section of 8-5/8" casing near 3100', underream the window to 12-3/4" lay cement plug from 4150' to 3900' (sufficient to cover perforations without having to wait and feel for top) and another plug from 100' below section back above top of window and level off plug 2' into section.
3. Sidetrack cased hole through section and drill 7-5/8" hole to approximately 5900'.
4. Run and cement 5-1/2" liner, effect. W.S.O. at lap of 8-5/8" casing and above productive horizon.
5. Complete well."

DECISION
THE PROPOSAL IS APPROVED PROVIDED:
1. Fluid consistent with good drilling practice shall be used, and the column of fluid maintained at all times to the surface, particularly while pulling the drill pipe.
2. Adequate blowout prevention equipment shall be installed and maintained in operating condition at all times.
3. THIS DIVISION SHALL BE NOTIFIED TO WITNESS:
   a. A test, after cleaning out below the top of the liner to demonstrate that no fluid has access to the well from the annulus between the 8-5/8" and 5-1/2" casings.
   b. A test of the effectiveness of the 5-1/2" shut-off above the zone to be produced.

WLI:nw
cc Company

Bond No. 1411161
Dated 6-27-67

E. R. MURRAY-AARON, State Oil and Gas Supervisor

By [Signature], Deputy
DIVISION OF OIL AND GAS
Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well
This notice must be given before work begins; one copy only

Los Angeles, Calif. June 27, 1967

DIVISION OF OIL AND GAS
In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of deepening, redrilling, plugging or altering casing at Well No. "Oil Operators" 3

Sec. 13, T. 4 S, R. 13 W, S.B. B. & M.
Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

1. Total depth. 5450

2. Complete casing record, including plugs:

   13-3/8" C 765',
   8-5/8" C 3986' WSO
   5-1/2" C 5446', top 3928', WSO on splice. Bad 4195 & 5107', plgd.
   Perf. & plgd. 4190-4205', 4852-4950', 5140-5180',
   5190-5200', 5306-5355'.
   Plug 4159'. Perf. 4080-4158'.

3. Last produced. 12/12/66

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<th>Gas</th>
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<tbody>
<tr>
<td>12/12/66</td>
<td>10</td>
<td>182</td>
<td>-</td>
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</table>

The proposed work is as follows:

1. Move in drilling equipment, pull tubing, install BOPE and fill hole with mud.
2. Mill out 30-foot section of 8-5/8" casing near 3100', underream the window to 12-3/4" lay cement plug from 4150' to 3900' (sufficient to cover perforations without having to wait and feel for top) and another plug from 100' below section back above top of window and level off plug 2' into section.
3. Sidetrack cased hole through section and drill 7-5/8" hole to approximately 5900'.
4. Run and cement liner, effect W.S.O. at lap of 8-5/8" casing and above productive horizon.
5. Complete well.

417 S. Hill Street, Los Angeles
(Address)
628-2156
(Telephone No.)

GENERAL EXPLORATION COMPANY OF CALIFORNIA
(Name of Operator)

By R. S. Ballantyne, Vice President

ADDRESS ONE COPY OF NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED
REPORT OF PROPERTY AND WELL TRANSFER

Field or County: Long Beach

Former Owner: Union Oil Co. of California


List of Wells: "Oil Operators" 1, "Oil Operators" 2, "Oil Operators" 3 and "Oil Operators" 4. ("Oil Operators" 1, idle; other wells are active)

Date of Transfer: January 1, 1961

New Owner: General Exploration Co. of California

Address: 750 Subway Terminal Building, 417 South Hill Street, Los Angeles 15, Calif.

Telephone No.

Type of Organization: Corporation

Reported by: Union Oil Co. of California (Letter of January 6, 1961)

Confirmed by: General Exploration Co. of California (Letter of January 11, 1961)

New Operator New Status: PA

Old Operator New Status: PA

Request designation of agent:

Remarks:

cb

Sr. H.H. Husser
Prod. Dept.
Conservation Committee

LEGEND

PA—Producing Active
NPA—Non Potential Active
PI—Potential Inactive
NPIL—Non Potential Inactive
Ab—Abandoned or No More Wells
No—If Transfer Does Not Change Overall Status Enter "No Change"
Form 10

Date Received 1-13-60

Elect. Log Radio Log
Direct. Surv. Other Data
Location
Elevation
Prod. Repts.

COMPLETED PRODUCING ON 12-10-59

RECEIPT FOR

New Well Records
Subsequent Work
Well Summary (100)
Drillers Log (101)
Core Record (101)
History (103)

CLERK

Clerk: Scott

ENGINEER

ABANDONED ON

BOND Release Date Elig. 150b
End Prem. year Release Requested Superseded

Aband.: Redrill

HOLD BOND Reason

Data Needed

Final Letter Eng.: Abandon
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<th>DEPTH</th>
<th>EFFECTIVE DEPTH</th>
<th>REMARKS</th>
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<tr>
<td>1</td>
<td>12-2</td>
<td>5450'</td>
<td>Flug 4985'</td>
<td>Contractor moved in and rigged up. Fullled rods and pump. Dia-Loed tubing.</td>
</tr>
<tr>
<td>1</td>
<td>12-3</td>
<td>&quot;</td>
<td>&quot;</td>
<td>Fullled tubing. Strung in with 2-5/8&quot; Cavins sand pump to 4201', top of 411'. 4-5/8&quot; impression block stopped at 3927'. 4-1/4&quot; block stopped at 3927'. 3-3/4&quot; block stopped at 3927'. Ran in with 2-5/8&quot; Cavins sand pump, went to 4201'. Fluid level at 500'.</td>
</tr>
<tr>
<td>2</td>
<td>12-4</td>
<td>&quot;</td>
<td>&quot;</td>
<td>Ran in with 1-7/8&quot; x 4-1/8&quot; x 2.59' Haash-Koss tapered mill on 3-1/2&quot; bumper sub on 2-1/2&quot; tubing on 3&quot; tubing. Ran in to top of liner at 3927'. Rise did not appear to be bad. Ran in to 4186' where mill stopped. Fullled back up to top of liner and worked mill through liner hanger repeatedly. Fullled out. Ran L-W Campton and Chlorinilog.</td>
</tr>
<tr>
<td>1</td>
<td>12-5</td>
<td>&quot;</td>
<td>&quot;</td>
<td>Crew off.</td>
</tr>
<tr>
<td>1</td>
<td>12-6</td>
<td>&quot;</td>
<td>&quot;</td>
<td>Fullled tubing. 7/8&quot; impression block to top of liner at 3928'. No impression. Keran impression block to top of liner. Bailled sand and shale at 4201' with 2-5/8&quot; Cavins sand pump. Bailler sticking badly at 4201'. Recovered small loads. Bright spot on bottom of bailer indicates possible tight pipe. Dumps 13&quot; sacks construction cement at 4201' at 2:30 p.m. Felt for cement at 5:30 p.m. Top of cement at 4200'.</td>
</tr>
<tr>
<td>2</td>
<td>12-7</td>
<td>&quot;</td>
<td>4200</td>
<td></td>
</tr>
</tbody>
</table>
**Repair Report**

**History of Oil and Gas Well**

**Casing Record**


**Oil Operators #3**

- **Long Beach** (Field)
- **Los Angeles** (County)

**Wed, Dec 20, 1959**

<table>
<thead>
<tr>
<th>No.</th>
<th>Date</th>
<th>Depth</th>
<th>Effective Depth</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>12-8</td>
<td>5450</td>
<td>Flug 4200</td>
<td>Ran in with Cavins off bottom cement dump bailer and dumped 2 sacks construction cement at 4200' at 9:30 a.m. Felt for top of cement with bailer jars at 12:30 p.m. No fill. Dumped 2 sacks construction cement at 4200' at 1:30 p.m. Felt for top of cement at 4:30 p.m. No fill. Dumped 2 sacks of construction cement at 4200' at 5:45 p.m.</td>
</tr>
<tr>
<td>1</td>
<td>12-9</td>
<td>n</td>
<td>n 4159</td>
<td>Ran in with jars and found top of cement at 4200'. Mixed 4 sacks of construction cement and dumped in 2 runs at 4200'. Finished dumping cement at 9:00 a.m. Felt for plug at 12:00 noon. Located top of plug at 4174'. Rigged up to shoot.</td>
</tr>
<tr>
<td>2</td>
<td>12-10</td>
<td>n</td>
<td>n 4159</td>
<td>Perforated 5-1/2&quot; liner from 4158-4080' with two 1/2&quot; bullets per foot. Used L-W 4&quot; x 50 shot wire line gun. Checked collars and reset odometer according to collars. Located top of plug at 4159'. Fluid level stayed at 4140' during shooting job. No blow. All guns came from hole covered with oil. Had 2 scattered misfires. Checked bottom at 4159' after shooting. Removed blow-out preventer. Ran in and landed tubing. Ran rods. Put well on production. Contractor moved out.</td>
</tr>
</tbody>
</table>

**Production Data**

<table>
<thead>
<tr>
<th>Hrs</th>
<th>Gross</th>
<th>Net</th>
<th>Cut</th>
<th>Gray</th>
<th>DF</th>
<th>Remarks</th>
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<td>23.3</td>
<td>T</td>
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<td>82</td>
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<td>107</td>
<td>66</td>
<td>38.0</td>
<td>23.3</td>
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<tr>
<td>24</td>
<td>98</td>
<td>61</td>
<td>38.0</td>
<td>23.3</td>
<td>20</td>
<td>1020' Fluid over pump by Sonic</td>
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<tr>
<td>24</td>
<td>95</td>
<td>57</td>
<td>40.0</td>
<td>23.3</td>
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<td>80</td>
<td>40.0</td>
<td>23.3</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

**Names of Drillers/Head Well Pullers:**

- California Production Service - Contractor

**District Engineer:**

- Vaughn A. Meyer
Completed producing on 12-10-59

Abandoned on

Corriva/Ballantyne 7-2-67
Solid sand at 4000'.
OK to P/C 4000'-3878', using 100% excess per conversation with Ingram on 6-29-67.

Ballantyne/Ingram 6-29-67
Will use 100% excess on zone phg
in Iron if feeling for tip - ask me
Mr. C. E. Bowden
P. O. Box 7600
Los Angeles 54, California
Agent for UNION OIL COMPANY OF CALIFORNIA

Inglewood 3, Calif.
October 22, 1959

Dear Sir:

Your proposal to alter casing on Well No. "Oil Operators" 3,
Section 13, T. 4 S., R. 13 W., S B B. & M., Long Beach Field, Los Angeles County,
dated Oct. 19, 1959, received Oct. 21, 1959, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS IN ADDITION TO, OR AT VARIANCE WITH, THOSE SHOWN IN THE NOTICE.
Plugged with cement 5446'-5428' and 5101-4934'.

THE NOTICE STATES
"The present condition of the well is as follows:
1. Total depth, 4076' Dpdn 5450' Plug 4985'
2. Complete casing record,
   13-3/8" C 765'
   8-5/8" C 3986' WSO
   116'-6-5/8" H 4975' incl.-89'-pfs. pulled,
   1518' 5-1/2" F & C 5446'. Bad 4195' & 5107'.
   WSO test on splice OK.
   Bullet pf. 4190-4205' & 4852-4950'.
   Bullet pf. & plgd. 5190-5200', 5306-5355'.
3. Last produced, April 1958
4. 2 B/D
5. (Net Oil)
6. 23.7° (Gravity)
7. 98.0% (Cut)"

PROPOSAL
"The proposed work is as follows:
1. Pull rods and tubing.
2. Check hole open to top of plug at 4985'.
3. Check condition of 5-1/2" liner with impression blocks.
4. Perforate 5-1/2" liner from 4080-4185' with two 1/2" bullets per foot.
5. Check hole open to top of plug at 4985'.
6. Run rods and tubing.
7. Test on production."

DECISION
THE PROPOSAL IS APPROVED.

RG:omh

9645 South Santa Fe Springs Rd.
Santa Fe Springs, California

E. H. MUSSER, State Oil and Gas Supervisor

By Wm. C. Bailey, Deputy
Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given before work begins; one copy only

Santa Fe Springs, Calif. October 19, 1959

DIVISION OF OIL AND GAS

Inglewood, Calif.

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of

altering casing

at Well No. OIL OPERATORS #3

Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

1. Total depth. 4076' Dprnd 5450' Plug 4985'

2. Complete casing record.

13-3/8" C 765'
8-5/8" C 3986' WSO
116-6-5/8" H 4975' net. 891' p.f.s., pulled.
1518' 5-1/2" F & C 5446'. Bad 4195' & 5107'.
WSO test on splice OK.
Bullet pf. 4190-4205' & 4852-4950'.
Bullet pf. & plgd. 5140-5180', 5190-5200', 5306-5355'.

3. Last produced. April 1958 2 B/D 23.7° 98.0%

The proposed work is as follows:

1. Pull rods and tubing.
2. Check hole open to top of plug at 4985'.
3. Check condition of 5-1/2" liner with impression blocks.
4. Perforate 5-1/2" liner from 4080-4185' with two 1/2" bullets per foot.
5. Check hole open to top of plug at 4985'.
6. Run rods and tubing.
7. Test on production.

Union Oil Company of California

(Name of Operator)

By: Vaughn S. Meyer, Division Engineer

ADDRESS ONE COPY OF NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED
Union Oil Company
History of Oil or Gas Well

REPAIR REPORT
Prod. Hole - Contract
July 8, 1953

PROPOSED WORK:
Cement off bottom perforations with plug from 5107' to 5000'. Test on production. If upper perforations not causing sand, gun perforate 5-1/2" casing from 4950' to 4852' with four 1/2" holes/ft.

PRODUCTION BEFORE REPAIR:
57 B/D Gross - 14 B/D Net = 75.0% Cut

ZERO POINT for this job: 9' 1" above concrete pad.

CASING ERECTED AT START OF WORK:
4-3/4" Diam P-50'
13-3/4" C 765'
8-3/8" C 3986' WSO
4-1/2" I-4875' A-4908-861 perf. Pulled
1518' 5-1/2" F & C 5146' Bad at 1958' and 5107'
WSO test on splice OK
Bullet perf. I-190-1205'
Bullet perf. & plugged 5290-5280-5190-5000,
5996-5955'

CASING RECORD AT COMPLETION OF WORK:
4-3/4" Diam 4950' Plug 4985'
13-3/8" C 765'
8-3/8" C 3986' WSO
4-1/2" I-4875' A-4908-861 perf. Pulled
1518' 5-1/2" F & C 5146' Bad at 1958' and 5107'
WSO test on splice OK
Bullet perf. I-190-1205' and 4852-1930'
Bullet perf. & plugged 5290-5280-5190-5000,
5996-5955'

California Production Service, Contractors, moved in and set up equipment. Test tubing = OK. Pulled tubing and rod. Tubing measured 4179.72'. Ran 2-5/8" Cavins bull. Checked fill at 4938'. Fluid level at 3685'. Cleaned out to 4955'.

Continued cleaning out sand to 4985'. Installed Shaffer blow-out preventer. Ran in with Lane-Wells 4" x 13' type A-2 bullet gun, shot four 1/2" holes/foot from 4950' to 4852'. Had light blow and rapid fluid rise. Fluid level at start of shooting 4925'; fluid level at finish 3220'.

Killed off 3'/8" casing pressure. Ran 2-5/8" Cavins sand pump. Checked fill at 4963'. Fluid level at 3170'. Cleaned out to 4955'. Ran in and landed 4780' of mixed 2-1/2" and 3" tubing. Ran rods and pump. Contractor moved out July 8, 1953. Well on production at 5130 P.M.

Chas. F. Bowden
District Engineer
## Repair Report

**Union Oil Company**

**History of Oil or Gas Well**

**Oil Operator #3**

**Los Angeles**

**Long Beach**

**Field**

**13-3-13-W S.B.**

**Sec.**

**T.**

**R.**

**B. & M.**

**July 26, 1953**

**Producers - Contractor**

**Tools**

**Period Ending**

### Production Data

<table>
<thead>
<tr>
<th>NO. TOURS</th>
<th>DEPTH</th>
<th>EFFECTIVE DEPTH</th>
<th>REMARKS</th>
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<tr>
<td></td>
<td></td>
<td>5450</td>
<td></td>
</tr>
<tr>
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<td></td>
<td>Plug 4985</td>
<td></td>
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<table>
<thead>
<tr>
<th>Hours</th>
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<th>Cut</th>
<th>Crude</th>
<th>HCF</th>
<th>Remarks</th>
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<td>37</td>
<td>48</td>
<td>0</td>
<td>0</td>
<td>23.1</td>
</tr>
</tbody>
</table>

**Sanded up**

Union Oil production crew pulled rods and tubing.

Cleared out 1,785-1,757' with 3-1/8" Cavins sand pump.

Cleared out 1,757-1,820' with 3-1/8" Cavins sand pump.

Cleared out 1,820-495' with 3-1/8" Cavins sand pump. Recovered shale and pieces of iron. Fluid level 3300'. Ran tubing to 1,200'.

Cleared out off bottom with 3-1/8" Cavins sand pump. Ran tubing to 1900'.

**Ran rods. Put well on prod.**

---

**Names of Drillers/Head Well Pullers:**

Call: Fred. Service. Contractors, to 7-7-53.

Union Oil Prod. Crew 7-16-53 to 7-21-53

Chas. F. Bowden

District Engineer
**REPAIR REPORT**

**PROD. No. - CONTRACT**

**Date:** June 22, 1953

**FIELD:** Long Beach

**COUNTY:** Los Angeles

**SEC.:** 13

**T.** 4 S

**R.** 13 W

**S.B.:** S.B.

**S.M.:** S.M.

**WELL NO.:** Oil Operators No. 3

**STATE OF CALIFORNIA**

**DEPARTMENT OF NATURAL RESOURCES**

**DIVISION OF OIL AND GAS**

**RECEIVED CASING RECORD**

**DATE:** JUL 3 1953

**LOCATION:** LOS ANGELES, CALIFORNIA

**NOTE INEFFECTIVE CASING**

<table>
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<tr>
<th>NO.</th>
<th>DATES</th>
<th>DEPTH</th>
<th>EFFECTIVE DEPTH</th>
<th>CHARGE: B.R.-A.F.E., 51528 Job 234-D</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>6-8</td>
<td>5450</td>
<td>Plug 5428</td>
<td>California Production Service, Contractor, moved in and installed blow-out preventer. Checked bottom with 2-3/8 Cavins sand pump at 5101'. Fluid level at 510'. Ran in with 7-1/2&quot; impression block. Checked 5-1/2&quot; liner hanger at 3925'. Ran in with 4&quot; impression block - went to 5101' - no marks.</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>6-9</td>
<td>4910</td>
<td>Plug 4983</td>
<td>Ran in with Cavins continuous dump bottom bailer. Dumped 11 sacks of construction cement in 5-1/2&quot; casing, starting at 5101'. Let stand 4 hours. Felt top of plug at 4983'.</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>6-10</td>
<td>4985</td>
<td>Plug 4985</td>
<td>Ran in with 2-5/8&quot; Cavins sand pump. Bailed loose cement at 4983' to hard cement at 4985'. Witnessed and approved by Division of Oil and Gas. Started running tubing.</td>
<td></td>
</tr>
<tr>
<td>1</td>
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<td>4995</td>
<td>Plug 4995</td>
<td>Ran tubing and started running rods.</td>
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<tr>
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<td>&quot;</td>
<td>Finished running rods. Put well on pump. Contractor released.</td>
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**PRODUCTION DATA**

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<td>24</td>
<td>57</td>
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<td>75.0</td>
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</table>

**NAMES OF DRILLERS/HEAD WELL PULLERS:**

California Production Service, Contractor.

**DISTRIBUT ENGINEER:**

Chas. F. Bowen
DEAR SIR:

Operations at your well No. "Oil Operators" 3 Sec. 13, T. 4 S, R. 13 W, S B, B & M, Long Beach Field, in Los Angeles County, were witnessed by J. H. Thomas, Inspector, representative of the supervisor, on June 10, 1953. There was also present R. J. Wilson, Driller; Ray Hothan, Helper.

Casing Record: 12-3/8" cement: 765', 8-5/8" cement: 3986', Junk: None
W.S.O. 52' id. 3928'-5446', perf. 4190'-4205', 5140'-
5160', 5190'-5200', and 5306'-5355', T.D. 5450', plugged with cement 5465'-5478' and 5101'-4984'.

The operations were performed for the purpose of testing the location and hardness of a cement plug placed from 5101' to 4984' in the process of plugging back.

The inspector arrived at the well at 10:45 a.m. and Mr. Wilson reported that on June 9, 1953, 11 sacks of cement was dumped into the hole beginning at 5101'.

THE INSPECTOR NOTED THAT the bailer could not be spudded below 4984' and brought up a sample of set cement.

The test was completed at 11:30 a.m.

THE LOCATION AND HARDNESS OF THE CEMENT PLUG AT 4984' ARE APPROVED.

JKT:OH

cc Long Beach

Mr C F Bowden Div Engineer
Union Oil Co of California
9545 South Santa Fe Springs Road
WHITTIER California

R. D. BUSH
State Oil and Gas Supervisor
By: Deputy
DEAR SIR:  

Your proposal to plug & alter casing Well No. 3, Section 13, T. 4 S., R. 13 W. S. B., B. & M., Long Beach Field, Los Angeles County, dated May 26 1953, received May 27 1953, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS IN ADDITION TO, OR AT VARIANCE WITH, THOSE SHOWN IN THE NOTICE

The hole is plugged with cement 5446'-5428'.

THE NOTICE STATES
"The present condition of the well is as follows:
1. Total depth - 4076'
   Deepen - 5450'
2. Complete casing record.
   13 3/8" C 765'
   8 5/8" C 3986' W.S.O.
   1461' 6 5/8" H-4075' inc. 89' perf., pulled
   1518' 5 1/2" F & C 5446', Bad 4195' & 5107'
   W.S.O. test on splice O.K.
   Bullet perf: 4190-4205, 5140-5180, 5190-5200, 5306-5355'
3. Last produced. April 1953  13 B/D  22.8 (Net Oil) 67.3% (Cut)"

PROPOSAL
"The proposed work is as follows:
1. Plug 5-1/2" casing with cement from 5107' to 5000'.
2. Test on production.
3. Gun perforate 5-1/2" casing from 4950-4852'.
4. Test on production."

DECISION
THE PROPOSAL IS APPROVED PROVIDED THAT
1. Plugging operations shall start from as deep as possible.
2. THIS DIVISION SHALL BE NOTIFIED TO WITNESS the location and hardness of cement plug at 5000'.

JLW:OH

cc W S Eggleston
    C F Bowden
    Long Beach

R. D. BUSH
State Oil and Gas Supervisor
By: Deputy

Blanket bond.
Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well
This notice must be given before work begins; one copy only

Whittier, Calif. May 26 1953

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of deepening, plugging or altering casing at Well No. Oil Operators #3

Long Beach, Field, Los Angeles, County.

The present condition of the well is as follows:

1. Total depth. = 4076'
   Deepen = 5450'

2. Complete casing record.
   13-3/8" C 765'
   8-5/8" C 3986' W.S.O.
   116'-6-5/8"-W-4975'-inex-99'-perfor-pulled
   1518' 5-1/2" P & G 5446', Bad 4195' & 5107'
   W.S.O. test on splice 0,K.
   Bullet perf: 4190-4205, 5140-5180, 5190-5200, 5306-5355'

3. Last produced. April 1953 13 B/D 22.8° 67.3%

The proposed work is as follows:

1. Plug 5-1/2" casing with cement from 5107' to 5000'.
2. Test on production.
3. Gun perforate 5-1/2" casing from 4950-4852'.
4. Test on production.

[Signature]

UNION OIL CO. OF CALIFORNIA
(Name of Operator)
By C. F. BOWDEN, Division Engineer.

ADDRESS ONE COPY OF NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED
Date Received 7-29-48  Form 100  101  103
Elec. Log  Radio Log
Direct. Surv.  Other Data
Location
Elevation  Steno. Dec.

ENGINEER
BOND  Blanket  Release  Date  Elig.  150b
HOLD BOND  Reason

Data Needed  train

Final Letter  Eng. [Signature]  8-2-48
**REPAIR REPORT**

**Portable Hoist**

February 23, 1948

**NO. TOUS** | **DATE** | **DEPTH** | **EFFECTIVE DEPTH** | **REMARKS**
---|---|---|---|---
2 | 2-10 | 5450 | Plg 5428 | Plug off present perforation with temporary bridge plug. Test 1-1 Zone. 
November, 1947 8 B/D net - 23.0° - 64.1°
Rigged up. Pulled rods and tubing. Cleared out from 5391' to 5428' with 3-1/8" casing bailing. Ran 6-1/2" impression block to 5426'.
Set Baker bridge plug at 4327' - no fluid above plug. Dumped one sack cement at 4327'. Installed 5" control gate. Cleared top of cement at 4328'. Dumped in 500 gallons of stoke oil. Cut perforated 5-1/2" liner from 4190' to 4305' with two McCullough 1/2" holes per foot. Fluid level rose from 3918' to 3050' during shooting. Had a good gas blow.
Located top of sand at 4283'. Cleared out with 3-1/8" bailing to 4303'. Ran 6-1/2" impression block to 4210'. Ran 2-1/2" tubing to 4177'. Ran rods.
Hooked up flow line. Put well on pump.

**PRODUCTION DATA**

<table>
<thead>
<tr>
<th>Hours</th>
<th>Gross</th>
<th>Net</th>
<th>Cut</th>
<th>Grav</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>24h</td>
<td>11</td>
<td>19</td>
<td>56.0</td>
<td>23.0</td>
<td>Average Cut (old), Lowered pump, changed pump</td>
</tr>
<tr>
<td>24h</td>
<td>19</td>
<td>8</td>
<td>56.0</td>
<td>23.0</td>
<td></td>
</tr>
<tr>
<td>24h</td>
<td>10</td>
<td>4</td>
<td>56.0</td>
<td>23.0</td>
<td></td>
</tr>
<tr>
<td>24h</td>
<td>17</td>
<td>7</td>
<td>56.0</td>
<td>23.0</td>
<td></td>
</tr>
<tr>
<td>24h</td>
<td>14</td>
<td>6</td>
<td>56.0</td>
<td>23.0</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>40</td>
<td>18</td>
<td>4.1</td>
<td>22.8</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>29</td>
<td>20</td>
<td>4.1</td>
<td>22.8</td>
<td></td>
</tr>
<tr>
<td>24h</td>
<td>21</td>
<td>20</td>
<td>2.2</td>
<td>22.8</td>
<td></td>
</tr>
<tr>
<td>24h</td>
<td>21</td>
<td>20</td>
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<td></td>
</tr>
<tr>
<td>24h</td>
<td>21</td>
<td>21</td>
<td>2.2</td>
<td>22.8</td>
<td></td>
</tr>
</tbody>
</table>

**Names of Drillers/Head Well Pullers:**

Santa Fe Springs Production

*John R. Drager*

**District Engineer**

**DIVISION OF OIL AND GAS**

**RECEIVED**

MAY 1 - 1948

**LOS ANGELES, CALIFORNIA**
**DIVISION OF OIL AND GAS**

**UNION-OIL COMPANY**

**History of Oil or Gas Well**

**REPAIR REPORT**

**Portable Hoist**

**WELL NO.**

**Long Beach**

**Los Angeles**

**13 4-E 13-W S.B.**

**SEC. T. R. B. & M.**

**April 15, 1948**

**JOHN A. FRAZER**

**DISTRICT ENGINEER**

---

<table>
<thead>
<tr>
<th>NO.</th>
<th>TOURS</th>
<th>DEPTH</th>
<th>EFFECTIVE DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3-24</td>
<td>5450</td>
<td>Plug 5428</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Bridge plug 4318</td>
</tr>
<tr>
<td>1</td>
<td>3-25</td>
<td>5450</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>3-26</td>
<td>5450</td>
<td>Plug 5428</td>
</tr>
<tr>
<td>1</td>
<td>3-27</td>
<td>5450</td>
<td>Plug 5428</td>
</tr>
</tbody>
</table>

**Remarks**

- Proposed Work: Clean out bridge plug and return to production. Production: 20 B/D net = 22.8′ = 2.24
- Pulled rods and tubing. Shut well in.
- Cleaned out from 4308′ to 4316′ with 2-5/8″ bailer. Fluid level 3100′.
- Ran in with chisel shoe and drilled out bridge plug. Cleaned out with bailer to 5428′. Recovered metal and sand.
- Checked hole open to bottom. Ran tubing and rods. Put well on production.

**PRODUCTION DATA**

<table>
<thead>
<tr>
<th>Res.</th>
<th>Gross</th>
<th>Net</th>
<th>Cut</th>
<th>Gross</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>27</td>
<td>27</td>
<td>1.1</td>
<td>22.8</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>30</td>
<td>30</td>
<td>1.1</td>
<td>22.8</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>30</td>
<td>30</td>
<td>1.1</td>
<td>22.8</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>48</td>
<td>47</td>
<td>1.1</td>
<td>22.8</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>30</td>
<td>30</td>
<td>1.5</td>
<td>22.8</td>
<td></td>
</tr>
</tbody>
</table>

- Pulled rods and tubing.
- Cleaned out sand from 5368′ to 5423′ with 2-5/8″ Cavins bailer. Ran tubing.
- Ran rods & pump. Put well on production.

---

**Names of Drillers/Head Well Pullers:**

**John A. Frazier**

**District Engineer**
Univ Oil Co,
"Oil Operators" #3

To perf. 4205' - 4190'
later on if not enough to perf. up as high as 4050'
To temp. bridge off lower perf.
and if ok. to take both 3ns together.
Mr. W. S. Eggleston

Los Angeles 14, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

DEAR SIR:

Your proposal to alter casing Well No. "Oil Operators" 3, Section 13, T4 S., R13 W., S.E. B. & M., Long Beach Field, Los Angeles County, dated Dec. 22, 1947, received Dec. 23, 1947, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS: The condition of the well is as stated in the notice.

THE NOTICE STATES:
"The present condition of the well is as follows:
1. Complete casing record.
   Total depth 5450' - Plug 5428'.
   13-3/8" G 765'
   8-5/8" G 3986'
   1518' 5-1/2" F & G 5446' Perf. 5140-5180', 5190-5200' & 5306-5355'.
2. Last produced Nov., 1947 8 B/D Ave. 23.0° 64.1%"

PROPOSAL:
"The proposed work is as follows:
1. Plug off perforations from 5140' to 5355' with a bridge plug.
2. Test E-I Zones by stages from 4200' to 4050'.
3. If O.K., knock out bridge plug and put on production."

DECISION:
THE PROPOSAL IS APPROVED PROVIDED THAT
1. It is understood that the bridge plug above the perforations 5355'-5140', does not fulfill the requirements of this division for the abandonment of the lower portion of the hole.
2. This division shall be kept informed of the results of tests after each stage of perforating, and will designate any requirements at that time.

SHR: OH

cc- John R. Fraser
Long Beach

R. D. BUSH
State Oil and Gas Supervisor

By ____________________________ Deputy
Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well
This notice must be given fifteen days before work begins when possible

Whittier Calif. Dec. 22 1947

DIVISION OF OIL AND GAS

Los Angeles Calif.

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of altering casing at well No. Oil Operators #3

(Cross out unnecessary words)

Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

1. Complete casing record.
   Total depth 5450' - Plug 5428'
   13-3/8" 0 765'
   8-5/8" 0 3986'
   1518' 5-1/2" P & O 5446' Perf. 5140-5180', 5190-5200' & 5306-5355'

2. Last produced Nov. 1947 8 B/D Ave. 23.0° 66.1°
   (Date) (Net Oil) (Gravity) (Cst)

The proposed work is as follows:

1. Plug off perforations from 5140' to 5355' with a bridge plug.
2. Test H-I Zones by stages from 4200' to 4050'.
3. If O.K., knock out bridge plug and put on production.

MAP MAP BOOK CARDS BOND FORMS

UNION OIL COMPANY OF CALIFORNIA

(Name of Operator)

By John R. Fraser, Division Engineer

ADDRESS NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED
**SUBMIT IN DUPLICATE**  
**STATE OF CALIFORNIA**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL AND GAS**  

**Subsequent Work Report**

**Operator:** Union Oil Company of California  
**Field:** Long Beach  
**Well No.:** Oil Operators #3  
**Sec.:** 13  
**T.:** 4-5  
**R.:** 13-W  
**S.B.:** B. & M.

In compliance with the provisions of Chapter 718, Statutes 1915, as amended, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated December 31, 1937, was filed.

**Date:** September 11, 1941  
**Title:** DIVISION ENGINEER  
**(President, Secretary or Agent)**

Outline in the order of performance, together with the dates thereof, all important operations which alter the condition of the well. Include such information as depth at which drilling operations were started, size of hole redrilled or deepened; size of pipe, amount of perforations in casing, weight and length of casing landed or cemented or removed; number of sacks of cement used in cementing or plugging operations and exact position thereof. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

### CASING RECORD AT START OF WORK:

<table>
<thead>
<tr>
<th>Depth</th>
<th>Eff. Depth</th>
<th>Remarks</th>
</tr>
</thead>
</table>

### CASING RECORD AT END OF WORK:

<table>
<thead>
<tr>
<th>Depth</th>
<th>Eff. Depth</th>
<th>Remarks</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Depth</th>
<th>Eff. Depth</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-31</td>
<td>4076</td>
<td>Killed well with mud.</td>
</tr>
<tr>
<td>8-2</td>
<td>4080</td>
<td>Drilled through bottom of liner and ahead to 4080' with 5-5/8&quot; bit. Cut 6-5/8&quot; liner at 3976'.</td>
</tr>
<tr>
<td>8-3</td>
<td>4080</td>
<td>Recovered 18' 6-5/8&quot; liner. Ran in double cup inverted 6-5/8&quot; casing swab, changed from mud to oil, and washed perforations.</td>
</tr>
<tr>
<td>8-6</td>
<td>4070</td>
<td>Recovered remaining 98' of 6-5/8&quot; liner, changed from oil to mud, and drilled ahead with 7-5/8&quot; rock bit.</td>
</tr>
<tr>
<td>8-21</td>
<td>5131</td>
<td>Drilled ahead with 7-5/8&quot; bits to 5131'. Hole was directionally controlled, using whipstocks at 4170', 4300', 4344', 4390', and 4977'. Ran Schlumberger survey.</td>
</tr>
<tr>
<td>8-25</td>
<td>5450</td>
<td>Continued drilling directionally controlled hole with 7-5/8&quot; bits to 5450'. Coordinates of hole at 5449': 90.29' S., and 48.45' E. from the surface location of the hole. Ran Schlumberger survey. Ran in 1517.97' of new 5 1/2&quot; Grade &quot;C&quot;, 17/8&quot; casing, including 83.44' new Grade &quot;A&quot;, and 1.86' Burns 8-5/8&quot;x5-1/2&quot; liner hanger on top. Froze and cemented at 5446' with 285 sacks of low Colton cement.</td>
</tr>
<tr>
<td>8-29</td>
<td>5450</td>
<td>Plug 5423' Found top of cement at 3685' and cleaned out cement to 5423'. Changed from mud to water and bailed fluid to 3011'. After standing 8 hours, found top of fluid at 3011', with no rise. Test was witnessed by D. O. S., and splice of liner approved. Changed from water to oil.</td>
</tr>
</tbody>
</table>
DIVISION OF OIL AND GAS

Subsequent Work Report

OPERATOR Union Oil Company of California
FIELD Long Beach

Well No. Oil Operators #3, Sec. 13, T. 4, R. 13, S.B. B. & M.

In compliance with the provisions of Chapter 718, Statutes 1915, as amended, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated December 31, 1937, was filed.

Signed

Date September 11, 1941
Title DIVISION ENGINEER

Outline in the order of performance, together with the dates thereof, all important operations which alter the condition of the well. Include such information as depth at which redrilling operations were started, size of hole redrilled or deepened; size of pipe, amount of perforations in casing, weight and length of casing landed or cemented or removed; number of sacks of cement used in cementing or plugging operations and exact position thereof. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Eff. Depth</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-31</td>
<td>54.50</td>
<td>Ran in Lane-Wells 4-3/8&quot; casing gun perforator and perforated 5 1/2&quot; casing from 5140-5160', 5190-5200', 5306-5355', with a total of 200 1/2&quot; holes. Fluid level at surface during perforating.</td>
</tr>
<tr>
<td>9-1</td>
<td>54.50</td>
<td>Ran in rods and tubing and put well on the pump.</td>
</tr>
</tbody>
</table>

**PRODUCTION DATA**

<table>
<thead>
<tr>
<th>Gross</th>
<th>Net</th>
<th>Gravity</th>
<th>% Cut</th>
<th>Hours Pumped</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-1</td>
<td>145</td>
<td>22.3</td>
<td>15.5</td>
<td>12</td>
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<tr>
<td>9-2</td>
<td>141</td>
<td>22.3</td>
<td>15.0</td>
<td>24</td>
</tr>
<tr>
<td>9-3</td>
<td>129</td>
<td>22.3</td>
<td>10.5</td>
<td>24</td>
</tr>
<tr>
<td>9-4</td>
<td>117</td>
<td>22.3</td>
<td>9.9</td>
<td>24</td>
</tr>
<tr>
<td>9-5</td>
<td>129</td>
<td>22.3</td>
<td>9.9</td>
<td>24</td>
</tr>
<tr>
<td>9-6</td>
<td>122</td>
<td>22.3</td>
<td>8.7</td>
<td>24</td>
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</tr>
<tr>
<td>9-8</td>
<td>113</td>
<td>22.3</td>
<td>8.4</td>
<td>24</td>
</tr>
<tr>
<td>9-9</td>
<td>114</td>
<td>23.1</td>
<td>8.4</td>
<td>23</td>
</tr>
<tr>
<td>9-10</td>
<td>99</td>
<td>23.1</td>
<td>8.6</td>
<td>24</td>
</tr>
</tbody>
</table>

**MEASUREMENT DATUM**

All measurements taken from top of rotary table, which is 22" above top of derrick floor. Top of derrick floor is 5' 1" above top of cement cellar, or 9' 1" above floor of cellar.
### Log and Core Record of Oil or Gas Well

**Operator:** Union Oil Company of California  
**Field:** Long Beach  
**Well No.:** Oil Operators #3  
**Sec.:** 13, **T.:** 4-S, **R.:** 13-W, **S.B.:** B. & M.

#### Formations Penetrated by Well

<table>
<thead>
<tr>
<th>Depth To</th>
<th>Thickness</th>
<th>Drilled or Cored</th>
<th>Recovery</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top of Formation</td>
<td>Bottom of Formation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4076</td>
<td>4723</td>
<td>647'</td>
<td>Drilled</td>
<td>Sand and shale</td>
</tr>
<tr>
<td>4723</td>
<td>4732</td>
<td>9'</td>
<td>&quot;</td>
<td>Sand with streaks of shale</td>
</tr>
<tr>
<td>4732</td>
<td>4959</td>
<td>227'</td>
<td>&quot;</td>
<td>Sand and shale</td>
</tr>
<tr>
<td>4959</td>
<td>4967</td>
<td>8'</td>
<td>&quot;</td>
<td>Shale</td>
</tr>
<tr>
<td>4967</td>
<td>5278</td>
<td>311'</td>
<td>&quot;</td>
<td>Sand and shale</td>
</tr>
<tr>
<td>5278</td>
<td>5305</td>
<td>27'</td>
<td>&quot;</td>
<td>Shale</td>
</tr>
<tr>
<td>5305</td>
<td>5450</td>
<td>145'</td>
<td>&quot;</td>
<td>Sand and shale</td>
</tr>
</tbody>
</table>

**Total Depth 5450'**
<table>
<thead>
<tr>
<th>DATE</th>
<th>CORE NO.</th>
<th>DRILLER, SIZE &amp; TYPE BARREL</th>
<th>FROM</th>
<th>TO</th>
<th>TOTAL RECOVERY</th>
<th>SHALE</th>
<th>OIL SAND</th>
<th>GRAY SAND</th>
<th>SHELL</th>
<th>DESCRIPTION OF CORE</th>
<th>APPARENT DIP</th>
<th>ANGLE OF HOLE</th>
</tr>
</thead>
</table>

(NO CORES TAKEN)
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 1-40031

Los Angeles, Calif. September 10, 1941

Mr. W. S. Engleston, Agent for UNION OIL COMPANY OF CALIFORNIA

Los Angeles, Calif.

Dear Sir:

Operations at your well No. "OIL OPERATORS" 3 Sec. 13, T. 4 S., R. 13 W., S.B. B. & M., Long Beach Field, in Los Angeles County, were witnessed by James T. Carriel, Inspector, representative of the supervisor, on August 29, 1941. There was also present E. H. Winter, Engineer, and J. Jewiss, Drilling Foreman.

Casing Record 13-3/8" cas. 765'; 8-5/8" cas. 3986'; Junk None.
W.S.O.: 5-1/2" cas. 3926'; 5-1/2' cas. 5450'; plugged with cement 5450'-5428'.

The operations were performed for the purpose of demonstrating that no fluid has access to the well between the 8-5/8" and 5-1/2" casings.

and the data and conclusions are as follows:

THE INSPECTOR ARRIVED AT THE WELL AT 6:30 P. M. AND MR. WINTER REPORTED THE FOLLOWING:
1. All of the 6-5/8" casing was recovered.
2. A 7-5/8" rotary hole was drilled from 4075' to 5450'.
3. On August 25, 1941, 15' of 5-1/2" - 17 lb. casing was cemented at 5446' with 285 sacks of Slow Colton cement.
4. Cement was drilled out of the 8-5/8" and 5-1/2" casings from 3685' to 3733' and from 5226' to 5428'.
5. On August 29, 1941, at 10:00 a.m., the fluid was boiled to 3011'.

THE INSPECTOR NOTED THE FOLLOWING:
1. No fluid entered the well while standing 8 hr. for test.
2. The hole was open to 5428'.

The test was completed at 7:20 p.m.

THE OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED AS INDICATING THAT NO FLUID HAS ACCESS TO THE WELL BETWEEN THE 8-5/8" AND 5-1/2" CASINGS.

cc- H. E. Winter
Long Beach
JTO:OH

R. D. BUSH
State Oil and Gas Supervisor

By ___________________________ Deputy
Mr. W. S. Eggleston,

Los Angeles, Calif.

Dear Sir:

Your proposal to deepen Well No. "OIL OPERATORS' No. 3."

Section 13, T. 23 S., R. 13 W., S. E. B. & M., Long Beach Field, Los Angeles County, dated July 22, 1949, received July 23, 1949, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS: The condition of the well is as stated in the notice.

THE NOTICE STATES:

"The present condition of the well is as follows:

Total depth 4,076'
13-3/8" C 765'
8-5/8" C 3986.8, O. K.
116' 6-5/8" L 4,075', inc. 89' perf.
Last production, June 1941 - 764 oil, 9,521 water - 30 days."

It is desired to deepen to the "R-S" & "T" Zones.

PROPOSAL:

"The proposed work is as follows:
1. Pull 6-5/8" liner.
2. Deepen to approximately 5,400 ft.
3. Cement solid 5-1/2" blank liner with top at approximately 3,940 ft.
4. Test splice by division of oil & gas.
5. Gun perforate "R-S" & "T" Zones as determined from electrical log.
6. Test on production."

DECISION:

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Mud fluid consistent with good drilling practice shall be used and the column of mud fluid maintained at all times to the surface, particularly while pulling the drill pipe.
2. Adequate blowout prevention equipment shall be provided and ready for use at all times.
3. Any hole to be sidetracked in any oil zone shall be filled with cement, if possible.

cc: R. E. Winter
Long Beach
WJC, G
5/20

R. D. BUSH
State Oil and Gas Supervisor

By

[Signature]
Deputy
Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well
This notice must be given fifteen days before work begins when possible

Santa Fe Springs  Calif.  July 22  1941

DIVISION OF OIL AND GAS  

Los Angeles  Calif.

In compliance with Section 17, Chapter 718, Statutes of 1913, as amended, notice is hereby given that it is our intention to commence the work of deepening, redrilling, plugging, or altering casing in well No. Oil Operators #3
(Cross out unnecessary words)

Sec. 13, T. 4-S, R. 13-W, S.B. B. & M.

Long Beach  Field,  Los Angeles  County.

The present condition of the well is as follows:

Total depth 4076'
13-3/8" C 765'
8-5/8" C 3986' O.K.
116' 6-5/8" L 4075', inc. 89' perf.

Last production, June, 1941 - 764 oil, 9,521 water - 30 days
It is desired to deepen to the "R-S" & "T" Zones.

The proposed work is as follows:

1. Pull 6-5/8" liner.
2. Deepen to approximately 5400 ft.
3. Cement solid 5-1/2" blank liner with top at approximately 3940 ft.
4. Test splice by Division of Oil & Gas.
5. Gun perforate "R-S" & "T" Zones as determined from electrical log.
6. Test on production.

UNION OIL COMPANY OF CALIFORNIA
(Name of Operator)

By  Division Engineer.

Address Notice to Division of Oil and Gas in District Where Well is Located
**Operator:** Union Oil Company of California  
**Field:** Long Beach

**Well No.:** Oil Operators 3  
Sec. 13, T. 4-S, R. 15-W, S.H. B. & M.  
Location: 982' N-Wly along the center line of the Pacific Electric Railway right of way from the center line of Sixby Road, projected and thence 271' N-Wly at right angles.

Elevation: 63.88

In compliance with the provisions of Chapter 718, Statutes of 1915, as amended, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

**Date:** Dec. 31, 1937  
**Signed:** Henry Elliott  
(Engineer or Geologist)  
(Superintendent)  
(District Engineer)

Commenced drilling: Nov. 5, 1937  
Completed drilling:  
Drilling tools: Rotary

**Total depth:** 4076  
**Plugged depth:**  
**Junk:**

Commenced producing: Dec. 5, 1937  
(initial date)  
Flowing/gas lift/pumping (cross out unnecessary words)

<table>
<thead>
<tr>
<th>Clean Oil</th>
<th>Gravity Clean Oil</th>
<th>Per Cent Water</th>
<th>Gas Mcf. per day</th>
<th>Tubing Pressure</th>
<th>Casing Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>bbl. per day</td>
<td>including emulsion</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>367</td>
<td>23.5</td>
<td>1.5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>279</td>
<td>23.5</td>
<td>1.4</td>
<td></td>
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</tr>
</tbody>
</table>

**Production after 30 days:**

**Casing Record (Present Hole):**

<table>
<thead>
<tr>
<th>Size of Casing (A. P. L.)</th>
<th>Depth of Shoe</th>
<th>Top of Casing</th>
<th>Weight of Casing</th>
<th>New or Second Hand</th>
<th>Stainless or Lapped</th>
<th>Grade of Casing</th>
<th>Size of Hole Casing Landed in</th>
<th>Number of Sacks of Cement</th>
<th>Depth of Cementing if through perforation</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-5/8</td>
<td>765</td>
<td>Surface</td>
<td>45.97#</td>
<td>New</td>
<td>Sals.</td>
<td>C</td>
<td>17&quot;</td>
<td>350</td>
<td></td>
</tr>
<tr>
<td>8-5/8</td>
<td>3965</td>
<td>Surface</td>
<td>32#</td>
<td>New</td>
<td>Sals.</td>
<td>C</td>
<td>12-1/4&quot;</td>
<td>400</td>
<td></td>
</tr>
<tr>
<td>6-5/8</td>
<td>4075</td>
<td>3965</td>
<td>30#</td>
<td>New</td>
<td>Sals.</td>
<td>C</td>
<td>7-5/8&quot;</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

**Perforations:**

<table>
<thead>
<tr>
<th>Size of Casing</th>
<th>From</th>
<th>To</th>
<th>Size of Perforations</th>
<th>Number of Rows</th>
<th>Distance Between Centers</th>
<th>Method of Perforations</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-5/8</td>
<td>3965</td>
<td>4075</td>
<td>120 mesh</td>
<td>16</td>
<td>6&quot;</td>
<td>Kobe</td>
</tr>
</tbody>
</table>

Electrical Log Depths: Schlumberger from 765 to 4075  
(Attach Copy of Log)
### History of Oil or Gas Well

**Operator:** UNION OIL COMPANY OF CALIFORNIA  
**Field:** LONG BEACH

**Well No.:** OIL OPERATOR 3  
**Sec.:** 13  
**T.:** 4-S  
**R.:** 13-N  
**S.B.:** B. & M.

**Signed:** Henry Winter  
**Date:** Dec. 31, 1937

<table>
<thead>
<tr>
<th>Date</th>
<th>Depth</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-5</td>
<td>55</td>
<td>Spudded in and drilled with 17&quot; rotary bit.</td>
</tr>
<tr>
<td>11-10</td>
<td>932</td>
<td>Found top of cement at 761. Drilled out cement and plugs to 765' and drilled ahead with 12-1/4&quot; bits.</td>
</tr>
<tr>
<td>11-24</td>
<td>3948</td>
<td>Drilled with 12-1/4&quot; bits to 3920' and cored with 7-5/8' core barrels to 3948'. Directional survey of hole made by Alexander Anderson.</td>
</tr>
<tr>
<td>11-25</td>
<td>4000</td>
<td>Cored ahead to 4000'. Ran Schlumberger survey. Reamed out core hole with 12-1/4&quot; bit to 3986'.</td>
</tr>
<tr>
<td>11-25</td>
<td>4000</td>
<td>Cemented 8-5/8' 36#/grade &quot;C&quot; 8-thread rounded seamless casing at 3986 with 400 sacks Victor oil well cement.</td>
</tr>
<tr>
<td>12-1</td>
<td>4030</td>
<td>Found top of cement at 3966'. Cleaned out cement and plugs to 3991. Water shut off tent on 8-5/8' casing at 3986 witnessed and approved by Stoltz of Division of Oil &amp; Gas. Cored to 4030'.</td>
</tr>
<tr>
<td>12-3</td>
<td>4076</td>
<td>Cored to 4076. Ran Schlumberger survey. Landed 116' of 8-5/8' 28#/Grade &quot;C&quot; 10-thread casing at 4076', including 99' of 120 mesh (10-2-6) Kobe perforated on bottom. Bailed fluid to 1200' when oil broke in.</td>
</tr>
<tr>
<td>12-5</td>
<td>4076</td>
<td>Bailed hole clean. Landed 3' upset tubing at 3710'. Ran rods and installed pumping unit. Well on pump 8:00 P.M. 12-5-57.</td>
</tr>
</tbody>
</table>

It is of the greatest importance to have a complete history of the well. Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production. Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of cement used in the plugging, number of sacks or number of feet of cement drilled out of casing, depth at which cement plugs started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.
DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator: UNION OIL COMPANY OF CALIFORNIA  Field: LONG BEACH

Well No.: OIL OPERATORS 3  Sec. 15  T. 4-S  R. 15-E  S.B. B. & M.

Signed: [Signature]

Date: Dec. 31, 1937  Title: District Engineer

It is of the greatest importance to have a complete history of the well. Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production. Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of cement used in the plugging; number of sacks or number of feet of cement drilled out of casing, depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

<table>
<thead>
<tr>
<th>Date</th>
<th>Gross</th>
<th>Net</th>
<th>Depth</th>
<th>Gas</th>
<th>Cat</th>
<th>Status</th>
<th>Remarks</th>
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</thead>
<tbody>
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<td>215</td>
<td>150</td>
<td>23.5</td>
<td>26.0</td>
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<td></td>
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<td>12-7</td>
<td>310</td>
<td>307</td>
<td>23.5</td>
<td>1.1</td>
<td>P 24</td>
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<td>304</td>
<td>301</td>
<td>23.5</td>
<td>1.0</td>
<td>P 24</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12-9</td>
<td>308</td>
<td>305</td>
<td>23.5</td>
<td>1.0</td>
<td>P 24</td>
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<td></td>
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<tr>
<td>12-10</td>
<td>312</td>
<td>309</td>
<td>23.5</td>
<td>1.0</td>
<td>P 24</td>
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<tr>
<td>12-11</td>
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<td>308</td>
<td>23.5</td>
<td>1.0</td>
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<td>311</td>
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<td>1.0</td>
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<td>23.5</td>
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<td>12-23</td>
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<td>291</td>
<td>23.5</td>
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<td>P 24</td>
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<td>12-24</td>
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<td>270</td>
<td>23.5</td>
<td>1.4</td>
<td>P 24</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Changed gas line
- Working on gas engine
- Starting gas engine
<table>
<thead>
<tr>
<th>Date</th>
<th>Core No.</th>
<th>Driller Size &amp; Type</th>
<th>From</th>
<th>To</th>
<th>Core Recy.</th>
<th>Shale</th>
<th>Oil Sand</th>
<th>Gray Sand</th>
<th>Shell</th>
<th>Description</th>
</tr>
</thead>
</table>

NOTE - Driller reported shell at 3981.
<table>
<thead>
<tr>
<th>DATE</th>
<th>CORE NO.</th>
<th>DRILLER SIZE &amp; TYPE</th>
<th>FROM</th>
<th>TO</th>
<th>TOTAL RECOR.</th>
<th>SHALE</th>
<th>OIL SAND</th>
<th>GRAY SAND</th>
<th>SHELL</th>
<th>DESCRIPTION OF CORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-1-37</td>
<td>6</td>
<td>7-5/8 Soil</td>
<td></td>
<td>4015</td>
<td>4030</td>
<td>6.7</td>
<td>2.3</td>
<td>0.6</td>
<td>9.5</td>
<td>Firm soft fine brown oil sand, poorly sorted top 1.0. Good odor and dark amber cut. Firm, fine brown oil sand laminated with grayish-brown bentonitic shale. Hard grayish-brown bentonitic shale. Change from oil sand and shale above is very gradational. Firm, soft fine brown oil sand. Good odor and dark amber cut. Hard brown shale. Firm soft fine brown oil sand.</td>
</tr>
<tr>
<td>12-2-37</td>
<td>7</td>
<td>7-5/8 Soil</td>
<td></td>
<td>4030</td>
<td>4045</td>
<td>7.6</td>
<td>0.2</td>
<td>5.6</td>
<td>0.5</td>
<td>Hard brown shale. Dip - 17°. Firm soft fine to medium brown oil sand. Good odor and dark amber cut. Hard grayish-brown bentonitic shale. Firm soft medium brown oil sand. Good odor and dark amber cut.</td>
</tr>
<tr>
<td>Date</td>
<td>Core No.</td>
<td>Driller Size &amp; Type Barrel</td>
<td>From</td>
<td>To</td>
<td>Total Recy.</td>
<td>Shale</td>
<td>Oil Sand</td>
<td>Gray Sand</td>
<td>Shell</td>
<td>Description of Core</td>
</tr>
<tr>
<td>--------</td>
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<td>-----------------------------</td>
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<td>---------------------------------------------------------</td>
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<tr>
<td>12-2-37</td>
<td>8</td>
<td>7-5/8</td>
<td>4045</td>
<td>4050</td>
<td>13.2</td>
<td>0.1</td>
<td>0.5</td>
<td>0.5</td>
<td>0.1</td>
<td>1.8 of mud and cavities with streak of fine gray sand 0.5 from top. Soft fine brown oil sand mixed with mud.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Soil</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Hard brown shale with streaks and partings of fine brown oil sand.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td>4.4</td>
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<td>0.4</td>
<td>0.4</td>
<td>Firm soft fine brown oil sand.</td>
</tr>
<tr>
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<td></td>
<td>0.5</td>
<td>0.1</td>
<td>0.4</td>
<td>0.4</td>
<td>Hard brown shale with streaks of fine brown oil sand.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td>0.2</td>
<td>1.0</td>
<td>0.2</td>
<td>0.2</td>
<td>Firm soft fine brown oil sand.</td>
</tr>
<tr>
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<td></td>
<td></td>
<td>0.5</td>
<td>0.9</td>
<td>0.5</td>
<td>0.5</td>
<td>Good odor and dark amber cut.</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>0.5</td>
<td>0.3</td>
<td>0.5</td>
<td>0.5</td>
<td>Hard brown shale. Fracture of 27°.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>0.7</td>
<td>1.8</td>
<td>0.7</td>
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<td>Soft fine brown oil sand.</td>
</tr>
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<td></td>
<td></td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
<td>Soft fine brown oil sand mixed with mud.</td>
</tr>
<tr>
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<td></td>
<td></td>
<td>0.2</td>
<td>0.6</td>
<td>0.2</td>
<td>0.2</td>
<td>Hard brown shale.</td>
</tr>
<tr>
<td>12-2-37</td>
<td>9</td>
<td>7-3/8</td>
<td>4060</td>
<td>4076</td>
<td>12.3</td>
<td>2.5</td>
<td>1.6</td>
<td>0.5</td>
<td>0.5</td>
<td>Firm, soft fine brown oil sand. Good odor and dark amber cut. Hard brown shale.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Soil</td>
<td></td>
<td></td>
<td></td>
<td>1.2</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
<td>Hard slightly calcareous shale shell.</td>
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<td></td>
<td></td>
<td>0.3</td>
<td>0.1</td>
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<td>0.3</td>
<td>Hard silty dark brown shale.</td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td>0.6</td>
<td>0.1</td>
<td>0.6</td>
<td>0.6</td>
<td>Firm soft fine brown oil sand.</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>0.7</td>
<td>0.1</td>
<td>0.7</td>
<td>0.7</td>
<td>Hard brown sandy shale with partings of fine brown oil sand. Poor dips 20°-25°.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>0.6</td>
<td>0.1</td>
<td>0.6</td>
<td>0.6</td>
<td>Firm fine dark brown argillaceous oil sand.</td>
</tr>
<tr>
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<td>0.2</td>
<td>1.9</td>
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<td>0.2</td>
<td>Hard dark brown sandy shale.</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>0.7</td>
<td>0.1</td>
<td>0.7</td>
<td>0.7</td>
<td>Firm soft fine brown oil sand. Good odor and dark amber cut. Hard brown sandy shale. Good dip of 80° with slickensides along dip 0.1 zone of black gouge between shale and sand above.</td>
</tr>
<tr>
<td></td>
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<td>0.5</td>
<td>0.1</td>
<td>0.5</td>
<td>0.5</td>
<td>Soft loose fine brown oil sand.</td>
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</tbody>
</table>

**Total Depth = 4076**
<table>
<thead>
<tr>
<th>DEPTH TO Top of Formation</th>
<th>Bottom of Formation</th>
<th>Thickness</th>
<th>Drilled or Cored</th>
<th>Recovery</th>
<th>DESCRIPTION</th>
</tr>
</thead>
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<td>0</td>
<td>125</td>
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<td>Surface clay</td>
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<td>140</td>
<td></td>
<td>Shale and boulders</td>
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<tr>
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<td>140</td>
<td>350</td>
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<td>Sand and shale</td>
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<td>350</td>
<td>725</td>
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<td>Hard sand</td>
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<td>725</td>
<td>1058</td>
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<td>Shale and sand</td>
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<tr>
<td></td>
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<td>1058</td>
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<td>2419</td>
<td>2520</td>
<td></td>
<td>Sand and shale</td>
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<tr>
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<td>112</td>
<td>Shale and streaks of sand</td>
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<td>3765</td>
<td>3770</td>
<td>5</td>
<td>Hard sand</td>
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<td></td>
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<td>3883</td>
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<td>Sand and streaks of shale</td>
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<td>10</td>
<td>Shell</td>
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<td>4076</td>
<td>210</td>
<td>Shell</td>
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<td></td>
<td></td>
<td></td>
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<td>Sand and streaks of shale (see core record)</td>
</tr>
</tbody>
</table>
STATE CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS
LOS ANGELES Calif. 12/9/1937
Name of Operator
LOS ANGELES
Address
This is to acknowledge the receipt of logs and similar records of wells on Sec. 15 T. 12 S.
R. 13 W.-Long 12-3 B. & M., as herewith enumerated by well numbers.
Logs

History
Core record
Subsequent work

R. D. BUSH, State Oil and Gas Supervisor

Duplicate

FORM 127. 46916 7-37 116
Report on Test of Water Shut-off

No. T 1-33469

Los Angeles, Calif. December 6, 1937

Mr. Ed. Jussen, Jr.,
Los Angeles, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

Dear Sir:

Your well No. "OIL OPERATORS" 3, Sec. 13, T. 4 S., R. 13 W., S. B. B. & M., Long Beach Field, in Los Angeles County, was tested for shut-off of water on December 1, 1937. Mr. F. G. Stols designated by the supervisor, was present as prescribed in Section 19, Chapter 718, Statutes 1915, as amended, and there were also present R. Hampton, Engineer, and J. Kewish, Toolpusher.

Location of water tested above 3986' and normal fluid level not determined. Depth and manner 3986 ft. of 8-5/8 in. casing was cemented in shalx Formation 11-26-37. of water shut-off: at 3986 ft. with 400 sacks Victor oil well cement by casing method. Water string was landed in 12½" rotary hole. Casing record of well 13-3/8" cem. 765' 8-5/8" as above.

Reported total depth of hole 4000 ft. Hole bridged from XXX ft. to XXX ft. Hole cleaned out to 3991 ft. for this test. At time of test depth of hole measured XXX ft. and bailer brought up sample of XXXX. At oil bailed to XXX ft., drilling fluid bailed to XXX ft.

At top of oil found at XXX ft., top of fluid found at XXX ft.

THE INSPECTOR ARRIVED AT THE WELL AT 8:30 A.M. AND MR. HAMPTON REPORTED THE FOLLOWING:

1. No casing test was made.
2. 28' of set cement was drilled out of the 8-5/8" casing (equivalent to 8 sacks).
3. The Johnston tester was run into the hole on 4" drill pipe.
4. The wall packer was set at 3989'.
5. The tester valve was opened at 9:12 a.m. and remained open for 30 minutes. During this interval there was a medium blow of air for 5 minutes, a strong to medium blow of gas for 24 minutes.

THE INSPECTOR NOTED THE FOLLOWING:

1. When the drill pipe was removed 2700' of oil was found in the drill pipe above the tester, equivalent to 35 bbl.
2. The fluid sample taken from the bottom of the drill pipe tasted fresh.
3. The recording pressure bomb chart showed that the tester valve was open for 30 minutes. The test was completed at 11:50 a.m.

THE SHUT-OFF IS APPROVED.

R. D. BUSH
State Oil and Gas Supervisor

By

cc: H. E. Winter
Long Beach
FCS:OH
629 South Hill Street
Los Angeles, California
November 24, 1937.

Union Oil Company of California,
Santa Fe Springs, Calif.

Gentlemen: Attention Mr. Henry E. Winter

This will acknowledge receipt of and thank you
for your letter dated November 22, 1937, giving the correct
elevation and location of your well No. "Oil Operators" 3,
Sec. 13, T. 4 S., R. 13 W., S. E. 1/4 N., Long Beach field,
as follows:

Elevation: 53.83' U. S. G. S.

Location: 982 feet N.W. 1/4 along the center
line of the Pacific Electric Railway Right of
Way from the center line of 6th Street
projected and thence 271 ft. southwesterly
at right angles.

Our records have been corrected accordingly.

Yours truly,

[Signature]

B:EMS

CC - Mr. R. D. Bush (2)
Long Beach

Deputy Supervisor.

<table>
<thead>
<tr>
<th>Corrections Made as Follows</th>
<th>By Whom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekly Summaries</td>
<td></td>
</tr>
<tr>
<td>121</td>
<td></td>
</tr>
<tr>
<td>Elev. and Log. Cards</td>
<td></td>
</tr>
<tr>
<td>Production Reports</td>
<td></td>
</tr>
<tr>
<td>Well Records</td>
<td></td>
</tr>
<tr>
<td>Prod. Model</td>
<td></td>
</tr>
</tbody>
</table>

20 CIB

[Signature]

Book CIB

11/24/37
Santa Fe Springs, Calif. Nov. 22, 1937

Mr. E. Huguenin, Deputy Supv.,
Division of Oil & Gas,
Los Angeles, Calif.

Dear Sir:

The elevation of the Union Oil Company well "Oil Operators #3" at Long Beach (Sec. 13-4-13) is 53.88 U.S.G.S.

The corrected location is as follows:

962 ft. N-W'ly along the center line of the Pacific Electric Railway Right of Way from the center line of Bixby Road projected and thence 271 ft. Southwesterly at right angles.

Our records have been corrected accordingly.

Very truly yours,

Henry E. Winter
District Engineer.
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 1-33407

Los Angeles, Calif. November 29, 1937

Mr. Ed. Jussen, Jr.,

Los Angeles, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

Dear Sir:

Operations at your well No. "OIL OPERATORS" 3 Sec. 13, T. 4 S., R. 13 W., S.E. B. & M., Long Beach Field, in Los Angeles County, were witnessed by H. R. Murray-Aaron, representative of the supervisor, on November 9, 1937. There was also present R. Hampton, Engineer, and J. Kewish, Drilling Foreman.

Casing Record: 13-3/8" cem. 765', T.D. 765'.

Junk xxxxx

The operations were performed for the purpose of demonstrating that the known surface waters are adequately protected.

and the data and conclusions are as follows:

THE INSPECTOR ARRIVED AT THE WELL AT 8:45 A. M. AND MR. HAMPTON REPORTED THE FOLLOWING:
1. A 17" rotary hole was drilled from the surface to 765'.
2. 770' of 13-3/8" - 45.97 lb. casing was run into the hole to 765'.

THE INSPECTOR NOTED THE FOLLOWING:
1. The 13-3/8" casing was cemented at the reported depth of 765' with 350 sacks of Victor High Early cement.
2. The final pressure was 500 lb.

The operations were completed at 9:30 a. m.

THE CEMENTING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED AS INDICATING THAT THE KNOWN SURFACE WATERS ARE ADEQUATELY PROTECTED.

cc- H. E. Winter
Long Beach

R. D. BUSH
State Oil and Gas Supervisor

By

Deputy
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P. 1-31535

Los Angeles, Calif. November 4, 1937

Mr. Ed. Jussen, Jr.,

Los Angeles, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

Dear Sir:

Your proposal to drill Well No. "OIL OPERATORS" 3, Section 13, T 4 S., R. 13 W., S.B. B. & M., Long Beach Field, Los Angeles County, dated Oct. 28, 1937, received Oct. 29, 1937, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

THE NOTICE STATES:
"The well is 355 feet W'ly along the center line of San Antonio from the center line of Del Mar Ave. and thence 925' W'ly at right angles. 53.84 ft.
The elevation of the derrick floor above sea level will be determined later — approx. 55 ft.
We estimate that the first productive oil or gas sand should be encountered at a depth of about 4000 feet, more or less."

PROPOSAL:
"We propose to use the following strings of casing, either cementing or landing them as herein indicated:

<table>
<thead>
<tr>
<th>Size of Casing</th>
<th>Weight</th>
<th>New or Second Hand</th>
<th>Depth</th>
<th>Landed or Cemented</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-3/8&quot;</td>
<td>46</td>
<td>New</td>
<td>700</td>
<td>Cmtd.</td>
</tr>
<tr>
<td>8-5/8&quot;</td>
<td>36</td>
<td>New</td>
<td>4000</td>
<td>Cmtd.</td>
</tr>
<tr>
<td>6-5/8&quot; Perforated liner</td>
<td>New</td>
<td>4100</td>
<td></td>
<td>Landed.</td>
</tr>
</tbody>
</table>

Well is to be drilled with rotary tools.
It is understood that if changes in this plan become necessary we are to notify you before cementing or landing casing."

DECISION:
THE PROPOSAL IS APPROVED PROVIDED THAT:
1. (a) Mud fluid of not less than 70 lb. per cubic foot shall be used in the drilling of the well and the column of mud fluid shall be maintained at all times to the surface, particularly while pulling the drill pipe.
   (b) Adequate blow-out prevention equipment shall be provided and ready for operation at all times.
2. Any hole to be sidetracked at any time during the drilling of this well shall be completely filled with cement.
3. The formations to be left back of the 8-5/8" casing shall be mudded by open circulation until the loss is not more than 5 bbl. per hr.
4. THIS DIVISION SHALL BE NOTIFIED TO WITNESS:
   (a) The cementing of the 13-3/8" surface casing.
   (b) Final mudding operations before cementing the 8-5/8" casing.
   (c) A test of the effectiveness of the 8-5/8" shut-off.

cc- H. E. Winter
Long Beach
WJC:OH

R. D. BUSH
State Oil and Gas Supervisor

By

Deputy
General Exploration Co.

Santa Fe Springs, Calif.  

Mr. E. Huguenin

Deputy State Oil and Gas Supervisor

Los Angeles, Calif.

Dear Sir:

"Oil Operators" 3

In compliance with Section 17, Chapter 718, Statutes of 1917, as amended, notice is hereby given that it is our intention to commence the work of drilling well No. Oil Operators #3, Sec. 13, T. 4-S, R. 13-W, S.B., B. & M., Long Beach Oil Field, Los Angeles County.

The lease consists of 932 feet N.W.'ly along the center line of the Pacific Electric Railway Right of Way from the center line of Wilshire Avenue projected and thence 271 feet, south-south-westerly along the center line of San Antonio Avenue from the center line of Del Mar Avenue, and thence 920' N.'ly at right angles.

The elevation of the derrick floor above sea level is 53.66 feet. approx. 55 ft. westerly at right angles. (Correction letter 11-24-37)

We propose to use the following strings of casing, either cementing or landing them as herein indicated:

<table>
<thead>
<tr>
<th>Size of Casing, Inches</th>
<th>Weight, Lb. Per Foot</th>
<th>New or Secondhand</th>
<th>Depth</th>
<th>Landed or Cemted</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-3/8&quot;</td>
<td>46</td>
<td>New</td>
<td>700'</td>
<td>Cmtd.</td>
</tr>
<tr>
<td>8-5/8&quot;</td>
<td>36</td>
<td>New</td>
<td>4000</td>
<td>Cmtd.</td>
</tr>
<tr>
<td>6-5/8&quot; Perforated Liner</td>
<td></td>
<td>New</td>
<td>4100'</td>
<td>Landed</td>
</tr>
</tbody>
</table>

Well is to be drilled with rotary tools.

It is understood that if changes in this plan become necessary we are to notify you before cementing or landing casing.

We estimate that the first productive oil or gas sand should be encountered at a depth of about 4000 feet, more or less.

Respectfully yours

Address Santa Fe Springs, Calif.  

Telephone number Whittier 42687

UNION OIL COMPANY OF CALIFORNIA

(Name of Company or Operator)

By Henry E. White

District Engineer.

ADDRESS NOTICE TO DEPUTY STATE OIL AND GAS SUPERVISOR IN CHARGE OF DISTRICT WHERE WELL IS LOCATED
Pacific Energy Resources Ltd.

"Oil Operators" 1

Sec. 13-48-13W.

Casing shoe depth: Driller 757 ft. Started run 5:45 p.m.
S. Schlumberger 757 ft. Finished run 8:00 p.m.

Bottom Depth: Driller 4041 ft. Time well occupied by outfit 2½ h.

Max. depth reached by lower elect 4043 ft. Time waiting at well 0:45 h.
Max. footage measured (p or S.P.) 3286 ft. Mileage incurred by run 15 M.
Footage missed -- ft. Total time incurred by run 4 h.

MUD CHARACTERISTICS

<table>
<thead>
<tr>
<th>NATURE</th>
<th>VISCOSITY</th>
<th>RESISTIVITY</th>
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<tbody>
<tr>
<td>natural</td>
<td>34</td>
<td>10½</td>
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</tbody>
</table>

DIAMETER OF HOLE

12 1/4" to 4000 ft.
7 5/8" to 4041 ft.

REMARKS

Device: 20"

Witnessed By: Mr. Winter

Observers: J. Walstrom

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>RESISTIVITY LOG (ohms. m²)</th>
<th>POROSITY LOG (millivolts)</th>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td></td>
<td>---</td>
</tr>
<tr>
<td>15</td>
<td></td>
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</tr>
<tr>
<td>30</td>
<td>---</td>
<td>150 mV</td>
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</tbody>
</table>
$H = 4971' \text{ Cored}$

$I = 4105' \text{ Cored}$
WELL: Oil Operators #1
RUN NO: Second
ELEVATION: 2613-14 (120)
FIELD: Long Beach
COUNTY: Los Angeles
STATE: California

Casing shoe depth: Driller 4105 ft. Started run 4:15 p.m.
Schlumberger 4532 ft. Finished run 5:45 p.m.
Bottom Depth: Driller 4532 ft. Time well occupied by outfit 12 h.
Max depth reached by lower elect 4532 ft. Time waiting at well 3 h.
Footage measured 427 ft. Mileage incurred by run 10 M.
Footage missed 1 ft. Total time incurred by run 5 h.

DIAMETER OF HOLE

4532 ft. 7-5/8"

MUD CHARACTERISTICS
Nature: Natural
Weight: 72
Viscosity: 500 cP Marsh Funnel 32
Resistivity: 8.9 @ 25°F

REMARKS
Device: Long

Note: 60 Ohms scale attached at bottom

Depth measurements taken from: Top of rotary table
Maximum Pull 1800 lbs. at 4532 ft.
Witnessed By: Mr. Winter

DATE: August 13, 1939 OBSERVERS: V. T. FANT

RESISTIVITY:

SELF-POTENTIAL:
REPORT OF PROPERTY AND WELL TRANSFER

Field or county
Wilmington, Long Beach, Montebello, Rosecrans, Rosecrans East, Torrance, and Newport West.

Former owner
Pacific Energy Resources

Operator code
P0250

Date
7/10/2007

Name and location of well(s)
See Attachment

Description of the land upon which the well(s) is (are) located
See Attachment

Date of transfer, sale, assignment, conveyance, or exchange
06/14/2007

New owner
Pacific Energy Resources Ltd.

Operator code
P0250

Type of organization
Partnership

Address
111 West Ocean Blvd
Long Beach, CA 90802

Telephone No.
(562) 628-1526

Reported by
OG30A Both Signed

Confirmed by

New operator new status
(status abbreviation)
PA

Request designation of agent
Darren Katic, Agent

Old operator new status
(status abbreviation)
NPI

Remarks
See Operator File

OPERATOR STATUS ABBREVIATIONS

<table>
<thead>
<tr>
<th>Operator Status Abbreviation</th>
<th>Form or Record</th>
<th>Initials</th>
<th>Date</th>
<th>Form or Record</th>
<th>Initials</th>
<th>Date</th>
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<tbody>
<tr>
<td>PA – Producing Active</td>
<td>Form OGD121</td>
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<td>NPA – No Potential, Active</td>
<td>Form OGD140</td>
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<td>PI – Potential Inactive</td>
<td>New well cards</td>
<td>Bond status</td>
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<td>EDP files</td>
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</tr>
<tr>
<td>NPI – No Potential, Inactive</td>
<td>Well records</td>
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<td>Computer Files</td>
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<tr>
<td>Ab – Abandoned or No More Wells</td>
<td>Electric logs</td>
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<td></td>
<td>Production reports</td>
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</tr>
</tbody>
</table>

OGD156 (5/98)
WELL TRANSFER NOTICE

EFFEC MAY 9, 1994, PETRO RESOURCES, INC.
TRANS LONG BEACH NWLBU WELLS
TO PACIFIC ENERGY CORP.
SEE OGD156 DATED 5-13-94
RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT OF WELL PLUGGING AND ABANDONMENT

Long Beach, California

March 9, 1993

Joe D. Rose, Agent
PETRO RESOURCES, INC.
4200 Easton Dr., Suite 16
BAKERSFIELD CA 93309

Your report of the plugging and abandonment of well NWLBU 8-1, A.P.I. No. 037-09792, Section 13, T. 4S, R. 13W, S.B. B.& M., Long Beach Field, Los Angeles County, dated 10-6-92, received 10-7-92, has been examined in conjunction with operations witnessed and records filed in this office. We have determined that all of the requirements of this Division have been fulfilled.

NOTE: Surface plugging completed on 7-3-92.

William F. Guerard, Jr.
Acting State Oil and Gas Supervisor

By

For R. K. Baker, Deputy Supervisor

KMCdf

cc: Update
Conservation Committee
L.A. County Assessor
L.A. County Fire Prevention Bureau
Don Callow, City of Signal Hill

OG169
DIVISION OF OIL AND GAS

RECORDS RECEIVED AND WELL

Company: Pete Resources, Inc.  Well No. N26641 8-1
API No. 059-09792  Sec. 13, T. 15S, R. 13W, S.B. B&m.
County: Los Angeles  Field: Long Beach

RECORDS RECEIVED  DATE
Well Summary (Form OG100)  10/17/92 (D)
History (Form OG103)  10/17/92 (D)
Core Record (Form OG101)  
Directional Survey  
Sidewall Samples  
Other  
Date final records received  
Electric logs:  

STATUS
Producing - Oil  Water Disposal
Idle - Oil  Waterflood
Abandoned - Oil  Steamflood
Drilling - Idle  Fire Flood
Abandoned - Dry Hole  Air Injection
Producing - Gas  Gas Injection
Idle - Gas  CO2 Injection
Abandoned - Gas  LPG Injection
Gas-Open to Oil Zone  Observation
Gas Storage  Waterflood Source
DATE  "E" well Yes □ No □
RECOMPLETED  
REMARKS  

ENGINEER’S CHECK LIST
1. Summary, History, &
   Core record (dupl.)  
2. Electric Log  
3. Operator's Name  
4. Signature  
5. Well Designation  
6. Location  
7. Elevation  
8. Notices  
9. "T" Reports  
10. Casing Record  
11. Plugs  
12. Surface Inspection  
13. Production  
14. E Well on Prod., enter EDP  
15. Directional Survey  

CLERICAL CHECK LIST
1. Location change (F-OGD165)  
2. Elevation change (F-OGD165)  
3. Form OGDL21  
4. Form OGDL59 (Final Letter)  587/93  
5. Form OGD210b (Release of Bond)  
6. Duplicate logs to archives  
7. Notice of Records due (F-OGD170)  
8. EDP (F-OGD42A-1, 2)  

UPDATE CENTER 3-22-93  
SAR Inspect. 7/1/93

Final Letter  

RECORDS NOT APPROVED
Reason:  

RECORDS APPROVED  3-8-93

RELEASE BOND
Date Eligible
(Use date last needed records were received.)  
F.B.C.
MAP AND MAP BOOK  3-8-93

LONG BEACH OFFICE - USE REVERSE SIDE
SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator: Petro Resources, Inc.  Field: Long Beach  County: Los Angeles
Well: NWLB, 8-1  Sec.: 13, T 4S, R 13W, S.B.B. & M.
A.P.I. No.: 037-09792  Name: Joe D. Rose  Title: Manager
Date: Oct. 6th, 1992

4200 Easton #16, Bakersfield, Ca. 93309  (805)323-4118 or 323-6922

Date | Description
--- | ---
1/31/84 | Ran 3-3/4" bailor to 518'. Bailed pieces of wood. Ran 6-3/4" bit.
2/3/84-2/6/84 | Drill and mill wood and steel to 558'. Ran I.B., appears to be angle iron in hole. (Mill worn down on outside 6" diameter).
6/2/92 | MIRU Finley Oilwell Service.
6/3/92 | 7" I.B. to 551'. Mark on outside of 7". Ran in sawtooth on 2-7/8" to 551'. Ran 1-1/4" tubing to 551'. No go.
6/4/92 | Pickup power swivel, spools for wellhead etc. Short day.
6/5/92 | Ran 7-3/8" shoe and 1 ft. washover pipe. Wash 551-554'. Pull @ 25,000# to free string. No fish. 2" worn imprint inside shoe.
6/8/92 | Ran 7" shoe with skirtdrill 551-555'. Torque up, pull 32,000#, slipped off. Ran again to 554', won't go. Torqued up.
6/12/92 | Ran 4-1/2" washover shoe, c.o. to 564'. POOH, recover 6' - 3-1/2" OD metal tube split and twisted w/ID of interior full of redwood pieces and splinters. Ran again, wouldn't go. Blanks off like we inside of a core inside of wood.
6/15/92 | Ran 4-9/16" junk mill, c.o. to 573'. Lots of wood and some metal shavings. Ran 7-5/8" 2 cone bit, c.o. to 575'. Wood and metal.
6/17/92 | Load out tools. Rig up 10-900 double gate BOP. Shoot 8- 1/2" holes 578-70'. RIH with Baker permanent cement retainer set at 537'. Pump away at 0-200 psi.
7/3/92 | Cut off casing 8' below ground level and welded on metal cap. Both strings observed to be full of cement.
Report on Operations

Joe D. Rose, Agent
PETRO RESOURCES, INC.
4200 Easton Dr., Suite 16
BAKERSFIELD CA 93309

Long Beach Calif.
July 13, 1992

Your operations at well NWLBU 8-1, API No. 037-09792, Sec. 13, T. 4S, R. 13W, S.B. B & M. Long Beach Field, in Los Angeles County, were witnessed on 7-3-92. J. Hebein, Engineer, representative of the supervisor, was present from 1400 to 1405. There were also present Dave Dahlman.

Present condition of well: 13 3/8" cem 757'; 8 5/8" cem 4105', cp 570'; 6 5/8" 1d 4024'-4529', cp 4475'. Junk below 580'. TD 4532'. Bp 4200'. Plugged w/cem 4529'-4443', 4200'-4124', w/523 sx cem below 535' & w/cem 535'-8'.

The operations were performed for the purpose of witnessing the plugging operations in the process of abandonment.

DECISION: APPROVED.

NOTE: The required Class II2M blowout prevention equipment was inspected and approved on 6-18-92.

DEFICIENCIES: None.

CONTRACTOR: Finley Oil Well Service, Inc.

JH: df

cc: Update Callow, Signal Hill

K. P. Henderson, Acting Chief
State Oil and Gas Supervisor

By R. K. Baker
Deputy Supervisor

Surface Inspection Approved 7-14-92
**DIVISION OF OIL AND GAS**
**Cementing/Plugging Memo**

**Operator:** Petro Resources, Inc.  
**Well No.:** NWLB 4-1  
**API No.:** 037-0970  
**Field:** Long Beach  
**Sec.:** 13, T. 45S, R. 13W, S.B., B&M  
**Date:** 7/3/92  
**Mr./Mrs.:** J. Hebein, representative of the supervisor, was present from 10:00 to 4:00.  
There were also present: Dave Dahlman, Pacific Energy Resources

**Casing record of well:**
- 3½" c/w 757', 8-5/8" c/w 4105', cp 570', 6½"d 4024' 4597' cp 6750'. Junk below 580', TD 530', Bp 4200. Plugged c/w 4499' - 4448', Bp 4200 - 4184', WJ 225' x d c/w 520' below 585' + w/cam 535' - 8'.

The operations were performed for the purpose of:

☐ The plugging/ cementing operations as witnessed and reported are approved.  
☐ The location and hardness of the cement plug @ ___________ is approved.

**Hole size:** ___________" fr. ___________" to ___________", ___________" to ___________" & ___________" to ___________.

<table>
<thead>
<tr>
<th>Casing</th>
<th>Cemented</th>
<th>Top of Fill</th>
<th>Squeezed Away</th>
<th>Final Press.</th>
<th>Perfs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>Wt.</td>
<td>Top</td>
<td>Bottom</td>
<td>Date</td>
<td>MO-Depth</td>
</tr>
<tr>
<td>618'</td>
<td>264'</td>
<td>Ret. @ 535'</td>
<td>523'</td>
<td>6/18/92</td>
<td>Ret. @ 535'</td>
</tr>
</tbody>
</table>

**Casing/tubing recovered:**技术创新的" shot/cut at ___________", ___________", ___________" pulled fr. ___________;  
技术创新" shot/cut at ___________", ___________", ___________" pulled fr. ___________.

**Junk (in hole):** ___________ below 580'

**Hole fluid (bailed to) at ___________. Witnessed by ___________.

**Mudding**

<table>
<thead>
<tr>
<th>Date</th>
<th>Bbls.</th>
<th>Displaced</th>
<th>Poured</th>
<th>Fill</th>
<th>Engr.</th>
</tr>
</thead>
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</tbody>
</table>

**NOTE:**

- 6/18/92  

**Cement Plugs**

<table>
<thead>
<tr>
<th>Date</th>
<th>Sx./cf</th>
<th>MO &amp; Depth</th>
<th>Placing</th>
<th>Placing Witnessed</th>
<th>Engr.</th>
<th>Depth</th>
<th>Wt/Sample</th>
<th>Date &amp; Time</th>
<th>Engr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6/18/92</td>
<td>16/2' 5x</td>
<td>Ret. @ 535'</td>
<td>0900</td>
<td>M. Saw</td>
<td>8&quot;</td>
<td>visual</td>
<td>7/3/92 1903</td>
<td>J. Hebein</td>
<td></td>
</tr>
</tbody>
</table>

**C/0 580', end c/w 551'**  
* plate welded on 20" conductor

OGD10 (6/91/GSR1/5M)
DEFICIENCIES NOTED AND CORRECTED:

None

DEFICIENCIES NOTED AND TO BE CORRECTED:

None

UNCORRECTABLE DEFICIENCIES:

None

CONTRACTOR:

Finlay Oil Well Service, Inc.
**BLOWOUT PREVENTION EQUIPMENT MEMO**

**Operator:** Retro Resources, Inc.  
**Well:** NWLBU 8-1  
**Field:** Long Beach  
**County:** LA.  
**Spud Date:**

**VISITS:**
1st: Date: 6/18/99  
2nd: (to)

**Engineer:** McSaw  
**Time:** (0830) to (0900)  
**Operator's Rep.:** J. Meyers  
**Title:** R.F.

**Contractor:**  
**Rig #:**  
**Contractor's Rep. & Title:**

**Casing record of well:**

**OPERATION:** Testing (inspecting) the blowout prevention equipment and installation.

**DECISION:** The blowout prevention equipment and its installation on the ____ casing are approved.

**Proposed Well Ops:** Abandon  
**MACP:** _____ psi  
**REQUIRED**:  
**BOPE CLASS:** D > M

<table>
<thead>
<tr>
<th>Hole size:</th>
<th></th>
<th></th>
<th></th>
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<table>
<thead>
<tr>
<th>CASING RECORD OF BOPE ANCHOR STRING</th>
<th>Cement Details</th>
<th>Top of Cement</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size</strong></td>
<td><strong>Weight(s)</strong></td>
<td><strong>Grade(s)</strong></td>
</tr>
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<tr>
<th>BOP STACK</th>
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<tbody>
<tr>
<td><strong>API Symb.</strong></td>
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<tr>
<td>Ps 79/8</td>
</tr>
<tr>
<td>Ps 94/8</td>
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<tr>
<th>ACTUATING SYSTEM</th>
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<tbody>
<tr>
<td><strong>Accumulator Unit(s) Working Pressure</strong></td>
</tr>
<tr>
<td><strong>Total Rated Pump Output</strong></td>
</tr>
<tr>
<td><strong>Distance From Well Bore</strong></td>
</tr>
<tr>
<td><strong>Accum. Manufacturer</strong></td>
</tr>
<tr>
<td>1</td>
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<tr>
<th>CONTROL STATIONS</th>
<th><strong>Elec.</strong></th>
<th><strong>Hyd.</strong></th>
<th><strong>Pneu.</strong></th>
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<tr>
<td><strong>Manifold at accumulator unit</strong></td>
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<tr>
<td><strong>Remote at Driller's station</strong></td>
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<tr>
<td><strong>Other:</strong> Headwells</td>
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<tr>
<th>EMERG. BACKUP SYSTEM</th>
<th><strong>Press.</strong></th>
<th><strong>Wkg. Fluid</strong></th>
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<tr>
<td><strong>N₂ Cylinders</strong></td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td><strong>L=</strong></td>
<td>gal</td>
<td>gal</td>
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<tr>
<th>HOLE FLUID MONITORING EQUIPMENT</th>
<th><strong>Alarm Type</strong></th>
<th><strong>Audible</strong></th>
<th><strong>Visual</strong></th>
<th><strong>Class</strong></th>
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<tbody>
<tr>
<td>Calibrated Mud Pit</td>
<td>A</td>
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<tr>
<td>Pit Level Indicator</td>
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<td>B</td>
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<tr>
<td>Pump Stroke Counter</td>
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<tr>
<td>Pit Level Recorder</td>
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<tr>
<td>Flow Sensor</td>
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<tr>
<td>Mud Totalizer</td>
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<tr>
<td>Calibrated Trip Tank</td>
<td></td>
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<tr>
<td>Other:</td>
<td></td>
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<th>REMARKS AND DEFICIENCIES:</th>
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<th>OGD9 (12/90/GSR1/2M)</th>
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</table>
PERMIT TO CONDUCT WELL OPERATIONS

Joe D. Rose
PETRO RESOURCES, INC.
4200 Easton Dr., Suite 16
BAKERSFIELD CA 93309

Long Beach, California
June 16, 1992

Your proposal to abandon well NWLBU 8-1,
A.P.I. No. 037-09792, Section 13, T. 4S, R. 13W, S.B. B.A.W.,
Wilmington field, Northwest Extension area, pool,
Los Angeles County, dated 6-12-92, received 6-15-92, has been examined in conjunction with records
filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment, equivalent to this division’s Class II2M requirements, or better, shall be installed and maintained in operating condition.

2. All portions of the hole not plugged with cement shall be filled with clay base mud having a minimum density of 72 lb/cu ft and a minimum gel-shear strength of 25 lb/100 sq ft.

3. This division shall be consulted and a Supplementary Notice may be required before making any changes in the proposed program.

4. THIS DIVISION SHALL BE NOTIFIED TO:
   a. Witness the clean-out depth.
   b. Witness the placing, location and hardness of the cement plug from 550' to 5' inside and outside the 8 5/8" casing.
   c. Inspect and approve the cleanup of the well site.

NOTES:

1. A crew drill may be required at the time of the blowout prevention equipment inspection.

2. The proposed surface plug shall not contain rock or gravel.

3. The base of the freshwater sands is at 2100'.

4. Report on Operations (OG 109) (T-Report) and Report of Well Abandonment (OG 159) will not be released until all records and histories are on file with this Division.

5. This Division does not recommend building over or in proximity of this well.

KMC:ss

cc: Update
Don C. Callow, City of Signal Hill

BLANKET BOND

Engineer Kenneth M. Carlson
Phone (310) 590-5311

K.P. HENDERSON, Acting Chief
By R.K. Baker, Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.
DIVISION OF OIL AND GAS

In compliance with Section 3229, Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon Well No. NWBLU 8-1, API No. 037-09792, Sec. 13, T. 48 S., R. 13 W., S.B., B. & M., Long Beach Field, Los Angeles County, commencing work on June 15, 1992.

The present condition of the well is:

1. Total depth: 4532′, junk @ 551′
2. Complete casing record, including plugs and perforations:
   - 13-3/8″ csg. cmted. @ 757′
   - 8-5/8″ csg. cmted. @ 4105′
   - 6-5/8″ 4024-4529′, cp @ 4475′
   - PB 4520-4443′, BP @ 4100′. Cmt. plug 4200-4124′.
3. Last produced N-A
   (Date) (Oil, B/D) (Gas, Mcf/D) (Water, B/D)
   or
4. Last injected Never
   (Date) (Water, B/D) (Gas, Mcf/D) (Surface pressure)

The proposed work is as follows:

1. Perforate 8-1/2″ holes at 550′.
2. Set cement retainer at 500′, squeeze 250 sx. through retainer to squeeze below shoe of 13-3/8″ surface casing.
4. Cut off casing strings 6′ below ground level and level site.

Additional data for dry hole (show depths)

5. Oil or gas shows

6. Stratigraphic markers:

7. Formation and age at total depth:

8. Base of fresh water sands: 2100′

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address: 4200 Easton #16
Bakersfield, CA 93309

Petro Resources, Inc.

By: Joe B. Rose

Type of Organization: Corporation

(Street) (City) (State) (Zip)

Telephone Number: (805) 323-4118

Date: 6-12-92

(Corporation, Partnership, Individual, etc.)
From: Vern Rice

(310) 595-0310

To: Ken

Date: 6/76

Time: 11:45

Phone: 595-4505

MESSAGE/REMARKS

Did you fax the notes yet?

By: Vern Rice

STATE OF CALIFORNIA
MESSAGE
STD 7 (REV 1/90)

PROTECT YOUR INFORMATION ASSETS

Mailing Address
P.O. Box 92527
Long Beach, CA 90809-2527

2945 Junipero Ave.
Signal Hill, CA
(213) 595-4505
DIVISION OF OIL AND GAS

Notice of Intention to Abandon Well
This notice must be given at least five days before work is to begin.

DIVISION OF OIL AND GAS

In compliance with Section 3229, Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon Well No. NLB 8-1, API No. 037-09792, Sec. 13, T. 4S, R. 13W, S.B.B. & M., Long Beach Field, Los Angeles County, commencing work on June 15, 1992.

The present condition of the well is:

1. Total depth: 4532', junk @ 551'

2. Complete casing record, including plugs and perforations:
   13-3/8" csg. cmt. @ 757'
   8-5/8" csg. cmt. @ 4105'
   6-5/8" 4024-4529', cp @ 4475'
   PB 4520-4443', BP @ 4200', Cmt. plug 4200-4124'.

3. Last produced
   (Date)  (Oil, B/D)  (Gas, Mscf/D)  (Water, B/D)
   or

4. Last injected
   (Date)  (Water, B/D)  (Gas, Mscf/D)  (Surface pressure)

The proposed work is as follows:
1. Perforate 8 - 1/2" holes at 550'.
2. Set cement retainer at 500', squeeze 250 sxs. through retainer to squeeze below shoe of 13-3/8" surface casing.
4. Cut off casing strings 6" below ground level and level site.

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address 4200 Easton #16
Bakersfield, CA 93309

Telephone Number (805) 323-4118

Petro Resources, Inc.

By:

Joe W. Rose

Type of Organization Corporation

Form 108 (Rev. 1-79)
Division of Oil and Gas

Notice of Intent to Abandon Well

The notice must be given in every instance where work is proposed

For Division Use Only

Division of Oil and Gas

In compliance with Section 3258, Division 9, Public Resources Code, notice is hereby given that the owner, 

APR. No. 12-020-1923

is proposing to abandon Well No. RrB8-1

in the above county

Date: 12-020-1923

The purpose of the disposal is to

Additional data for dry holes (show graphs)

1. Total depths 523 1/2, Fine & 8 3/16

2. Complete casing below main productive horizon, all connections

3. 12" O.D. casing, 9 1/2" I.D. casing, 6 1/2" O.D. casing, 6 1/2" O.D. casing

4. All gravel, 1000 ft. gravel, 500 ft. gravel

5. Total pump 1240 ft., 500 ft. gravel, 500 ft. gravel

The proposed work is as follows:

1. Paragraphs 6 to 12, page 1, column 1

2. Set cement at least 3000 feet below 200 feet through Top of D Lewisite contact, casing cement

3. Set a plug of 12-16" at Lewisite contact

4. Paragraph 12, page 8, column 1

5. Paragraph 12, page 10, column 1

6. Paragraph 23, page 8, column 1

This notice is required by Section 3258, Public Resources Code, and applies to oil wells and gas wells.

Long Beach, Ca.

Division of Oil & Gas

92 Jun 12 AM: 01

Received

(Official Use Only)

Division of Oil & Gas

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PETRO RESOURCES INC

Facsimile Transmission Cover Sheet

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TO: KEN CARLSON  DIVISION OF O&G

Receiving FAX telephone: 310/590/5301

1 more page follows this cover page

Sent by:

JOE ROSE

PETRO RESOURCES INC
4200 EASTON DR #16
BAKERSFIELD, CA 93309

FAX Telephone: 805/323/8567
Voice Telephone: 805/323/4118

In case of trouble, contact: 805 323 4118

Sent on 06-12-1992 at 10:56
PETRO RESOURCES INC

Facsimile Transmission Cover Sheet

TO: KEN CARLSON DIVISION OF O&G

Receiving FAX telephone : 310/590/5301

1 more page follows this cover page

Sent by :

JOE ROSE

PETRO RESOURCES INC
4200 EASTON DR #16
BAKERSFIELD, CA 93309

FAX Telephone : 805/323/8567
Voice Telephone : 805/323/4118

In case of trouble, contact : 805 323 4118

Sent on 06-12-1992 at 10:56
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<th>Item Description</th>
<th>Daily</th>
<th>Accum</th>
<th>Sub Total</th>
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<td>12-900 X 8-900 X-OVER SPOOL</td>
<td>20.00</td>
<td>180.00</td>
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<td></td>
<td>8-900 PGS R</td>
<td>25.00</td>
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<tr>
<td></td>
<td>1 EA 3 1/2 IF LIFTER</td>
<td>15.50</td>
<td>30.50</td>
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</tr>
<tr>
<td></td>
<td>1 SET 4 1/2&quot; TONG JAWS</td>
<td>45.75</td>
<td>135.65</td>
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</tr>
<tr>
<td></td>
<td>1 SET 4 1/2&quot; SLIP INSERTS</td>
<td>20.20</td>
<td>60.40</td>
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</tr>
<tr>
<td></td>
<td>2 EA 4 1/3&quot; DRILL COLLARS</td>
<td>10.25</td>
<td>50.50</td>
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<tr>
<td></td>
<td>SOS TRUCK DELIVERY</td>
<td>99.15</td>
<td>800.00</td>
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<td></td>
<td><strong>SUB TOTAL</strong></td>
<td><strong>880.00</strong></td>
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<tr>
<td>Marin Pacific</td>
<td>Trucking 1/4&quot; Junk mill</td>
<td>70.00</td>
<td>400.00</td>
<td><strong>2035.00</strong></td>
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<td><strong>SUB TOTAL</strong></td>
<td><strong>504.00</strong></td>
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<tr>
<td>JET Bailer</td>
<td>7&quot; Impression Block</td>
<td>Per Job</td>
<td>196.00</td>
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<td>4&quot; &quot; &quot; &quot;</td>
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<td>98.00</td>
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<td></td>
<td>4 3/8&quot; &quot; &quot; &quot;</td>
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<td>110.00</td>
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<tr>
<td></td>
<td>4 7/8&quot; MAGNET</td>
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<td>100.00</td>
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<td><strong>SUB TOTAL</strong></td>
<td><strong>504.00</strong></td>
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<td>Midway Fishing</td>
<td>7&quot; WASHOVER SHOE</td>
<td>155.00</td>
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<td>7&quot; W/O EXTENSION</td>
<td>170.00</td>
<td>170.00</td>
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<tr>
<td></td>
<td>7&quot; DRIVE SUB W/O</td>
<td>260.00</td>
<td>280.00</td>
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</tr>
<tr>
<td></td>
<td>1 1/2&quot; Junk mill</td>
<td>185.00</td>
<td>1157.00</td>
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<tr>
<td></td>
<td>3 EA X-OVER SUBS</td>
<td>25.12</td>
<td>75.00</td>
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<td></td>
<td>7 3/4&quot; Bit</td>
<td>300.00</td>
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<td><strong>SUB TOTAL</strong></td>
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<td>Homeco Int'</td>
<td>7 3/8&quot; SHOE</td>
<td>150.00</td>
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<td>7 3/8&quot; W/O PIPE</td>
<td>530.00</td>
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<td>7 3/8&quot; DRIVE SUB</td>
<td>230.00</td>
<td>220.00</td>
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<td>6&quot; DRILL COLLAR</td>
<td>58.29</td>
<td>58.29</td>
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<td>6 1/2&quot; Mill Junk</td>
<td>185.00</td>
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<td>3 1/2 IF LIFTER</td>
<td>25.12</td>
<td>32.00</td>
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<td><strong>SUB TOTAL</strong></td>
<td><strong>2841.00</strong></td>
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<tr>
<td>Steve's Oil Field</td>
<td>Trucking 4 DELIVERIES</td>
<td>98.00</td>
<td>800.00</td>
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<td></td>
<td>MISC. UNBILLED Tools &amp; Equip</td>
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<td></td>
<td><strong>SUB TOTAL</strong></td>
<td><strong>1300.00</strong></td>
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</tbody>
</table>
Company: Peters Resources Inc.
Lease: N1-24
Well: R-1
Field: Long Beach

**ROD RECORD**

|------|----------------|--------------|----------------|--------------|--------|

**PUMP RECORD**

Pump No. Out: Make, Size, Plunger, Mandrel.
Pump No. In: Make, Size, Plunger, Mandrel.

**TUBING RECORD**

<table>
<thead>
<tr>
<th>Size</th>
<th>No. Joints Out</th>
<th>Feet</th>
<th>No. Joints Run</th>
<th>Depth of Shoe</th>
<th>Total Feet in Hole</th>
</tr>
</thead>
</table>

Size of nipples in tubing string and location.

Make of tubing catcher, anchor: Size, Amount of tubing above catcher.

**BAILING RECORD**

Amount of tubing below catcher.

Maker of bailer: Size, Bailed from to Formation.


**REMARKS**

Laid out Rig mats - moved in Mud. Pump - moved. Mast - S.D. 11 A.M.

---

Well Went Off: A.M., P.M., 19
Production: ...

Well Put On: A.M., P.M., 19
Production: ...

<table>
<thead>
<tr>
<th>HOIST</th>
<th>START</th>
<th>STOP</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAST</td>
<td>2:30 P.M.</td>
<td>4:30 P.M.</td>
<td>2</td>
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</tbody>
</table>

SAND LINE
PUMP
SWIVEL

PUSHER: R. SCHAEFER
HELPER: A. MEDINA
HELPER: L. MEDINA
HELPER: F. HARTSOCK - TRAINER -
Service Report

Company: Petro Resources Inc.
Lease: NW 1/4 SE 1/4
Field: Long Beach, Cal.

Date: 6-3-92

ROD RECORD

<table>
<thead>
<tr>
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PUMP RECORD

<table>
<thead>
<tr>
<th>Pump No. Out.</th>
<th>Make</th>
<th>Size</th>
<th>Plunger</th>
<th>Mandrel</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Pump No. In.</th>
<th>Make</th>
<th>Size</th>
<th>Plunger</th>
<th>Mandrel</th>
</tr>
</thead>
<tbody>
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</table>

TUBING RECORD

<table>
<thead>
<tr>
<th>Size</th>
<th>No. Joints Out</th>
<th>Feet</th>
<th>No. Joints Run</th>
<th>Depth of Shoe</th>
<th>Total Feet in Hole</th>
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</tbody>
</table>

Size of nipples in tubing string and location: 

Make of tubing catcher, anchor: Size: Amount of tubing above catcher: 

BAILING RECORD

<table>
<thead>
<tr>
<th>Maker of bailer</th>
<th>Size</th>
<th>Bailed from</th>
<th>to</th>
<th>Formation</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

Fluid Level: Top. Perf. Bottom Perf. Zero Point: 

REMARKS: Remove well head - My 4 1/4" impression block - Jet Baker R.I.H. Stacked out 551 - P.O.H. - DN. I.B. 1" wide mark on outside of face on I.B. - R.I.H. w/ open end T.B. - Stopped @ 551 - Unable to work past 551 P.O.H. - R.I.H. - 98° collar - Stopped @ 551 unable to get passed 551 - P.O.H. - My 4 Jet Baker 4 1/2 I.B. & R.I.H. - Stack out @ 551 - P.O.H. - 1 B. indicates parted or bad C.S. - @ 551 - My 3 1/2 T.B. on 2 1/8 T.B. & R.I.H. - Unable to get passed 551 w/1 1/4" T.B. - P.O.H. - Secure well lay water line to well 8-1

Rig & Crew 1503 lb

Well Went Off A.M. Well Put On A.M.
Production P.M. 19 Production P.M. 19

<table>
<thead>
<tr>
<th>HOIST</th>
<th>MAST</th>
<th>SAND LINE</th>
<th>PUMP</th>
<th>SWIVEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>#4</td>
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</tbody>
</table>

START STOP HOURS
6:30AM 3:30PM 9 HRS

<table>
<thead>
<tr>
<th>PUSHER</th>
<th>HELPER A. MEDINA</th>
<th>HELPER M. MEDINA</th>
<th>HELPER C. HARTSOCK</th>
</tr>
</thead>
<tbody>
<tr>
<td>R. WHEELER</td>
<td></td>
<td></td>
<td>T.A.C.</td>
</tr>
</tbody>
</table>

6:30AM 3:30PM 9 HRS
Service Report

Company: Petro Resources Inc.
Lease: NW-1
Field: Long Beach, CA

ROD RECORD

|------|----------------|--------------|----------------|--------------|--------|

PUMP RECORD

<table>
<thead>
<tr>
<th>Pump No. Out</th>
<th>Make</th>
<th>Size</th>
<th>Plunger</th>
<th>Mandrel</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Pump No. In</th>
<th>Make</th>
<th>Size</th>
<th>Plunger</th>
<th>Mandrel</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

TUBING RECORD

<table>
<thead>
<tr>
<th>Size</th>
<th>No. Joints Out</th>
<th>Feet</th>
<th>No. Joints Run</th>
<th>Depth of Shoe</th>
<th>Total Feet in Hole</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

Size of nipples in tubing string and location:

Make of tubing catcher, anchor: Size
Amount of tubing above catcher:

BAILING RECORD

<table>
<thead>
<tr>
<th>Maker of bailer</th>
<th>Size</th>
<th>Bailed from</th>
<th>to</th>
<th>Formation</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Fluid Level</th>
<th>Top. Perf.</th>
<th>Bottom Perf.</th>
<th>Zero Point</th>
</tr>
</thead>
</table>

REMARKS: MOVE IN POWER SWIVEL A N/JUP SOME A HANG BACK IN DECKER,
A N/JUP HOSES & CROSS OVER SPEAR TO PCSR SHUT OFF UNTIL AM 6-5-92
TO RECEIVE WASH OVER PIPE & MISCE. CLIP & CHECK TOOLS.

#584.50 #6's Crew

#40.00 Sub Pay

No Accidents

Well Went Off A.M. 19
Production P.M.

Well Put On A.M. 19
Production P.M.

<table>
<thead>
<tr>
<th>Hoist</th>
<th>Start</th>
<th>Stop</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>#4</td>
<td>10:30 A.M.</td>
<td>6:00 P.M.</td>
<td>3.5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pusher</th>
<th>Start</th>
<th>Stop</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheeler</td>
<td>10:30 A.M.</td>
<td>6:00 P.M.</td>
<td>3.5</td>
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</table>

<table>
<thead>
<tr>
<th>Helper</th>
<th>Start</th>
<th>Stop</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>R. Medina</td>
<td>10:30 A.M.</td>
<td>6:00 P.M.</td>
<td>3.5</td>
</tr>
<tr>
<td>M. Medina</td>
<td>10:30 A.M.</td>
<td>6:00 P.M.</td>
<td>3.5</td>
</tr>
<tr>
<td>E. Hart-Sock</td>
<td>10:30 A.M.</td>
<td>6:00 P.M.</td>
<td>3.5</td>
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</tbody>
</table>

Helper
Company: Petro Resources Inc.
Lease: MULB
Well: 8-1
Field: LONG BEACH CA

Service Report
JOB No. 49985

Date: 6-5-92

Company: Petro Resources Inc.
Lease: MULB
Well: 8-1
Field: LONG BEACH CA

ROD RECORD

|------|-----------------|--------------|----------------|--------------|--------|

PUMP RECORD

Pump No. Out: Make: Size: Plunger: Mandrel:
Pump No. In: Make: Size: Plunger: Mandrel:

TUBING RECORD

<table>
<thead>
<tr>
<th>Size</th>
<th>No. Joints Out</th>
<th>Feet</th>
<th>No. Joints Run</th>
<th>Depth of Shoe</th>
<th>Total Feet in Hole</th>
</tr>
</thead>
</table>

DAILY COST ON FISHING TOOLS $2465.00 APPROX

Size of nipples in tubing string and location

Make of tubing catcher, anchor: Size: Amount of tubing above catcher

BAILING RECORD

Amount of tubing below catcher

Maker of bailer: Size: Bailed from: to: Formation:

Fluid Level: Top Perf.: Bottom Perf.: Zero Point:

REMARKS: Service Rig & Components: RIH W/ 4/1" END-OFFED TOP AUTO CHANGE OVER TO FRESH WATER; CIRE FLUID. RECEIVE A UNLOAD & WASH-OVER A MISC. TOOLS.

SIZE OF NIPPLES IN TUBING STRING AND LOCATION

MAKETYPE OF TUBING CATCHER, ANCHOR: SIZE

AMOUNT OF TUBING ABOVE CATCHER

BAILING RE既

AMOUNT OF TUBING BELOW CATCHER

MAKER OF BAILER: SIZE

BAILED FROM: TO: FORMATION

FLUID LEVEL: TOP PERF.: BOTTOM PERF.: ZERO POINT

REMARKS: Service Rig & Components: RIH W/ 4/1" END-OFFED TOP AUTO CHANGE OVER TO FRESH WATER; CIRE FLUID. RECEIVE A UNLOAD & WASH-OVER A MISC. TOOLS.

PICK UP OTHER W/ 4" TOOLS & MEASURING 4" FLAT BMD.

SHOE WASH DOWP TO 5,511.43' RB TO 5,344.48' SHOE TO 6 4/16" I.D.

APPROX. 1,000' FISH ENTERED FULL BAGE OF SHOE, 20'-30,000' STRING W/T TO PULL FREE (BFORE MOD), STRING UP-ON, RIH W/ 4" TOOLS, WERE 10,000', DISCONNECTION W/ RIH DUE TO LACK OF COLLAR W/ SECURE WELL SHOT DOWN UNTIL 1:45 P.M., ORDERED 2 GA 30'4" 6 3/4'D. O.C. 4" BORE SHAPE & ADD CUTTER SURF. TO INSIDE BORE 4" U/W O.

CREW ONLY

Hours @ 167.00 Total $4,085.00

Sub Pay

Tower Swivel & Mud Pump @ 300.00 Total $600.00

Well Went Off A.M. 19
Production P.M. 19

START STOP HOURS
HOIST 4 6 A.M. 4 P.M. 10
M AST
S AND LINE
P ump
S WIVEL

P USHER R. WHEELER 6 A.M. 4 P.M. 10
H ELP ER R. MEDINA
H ELP ER M. MEDINA
H ELP ER S. HARTSOCK
H ELP ER
Company: Petro Services Inc.
Lease: NW-8
Well: 8-1
Field: Long Beach

**ROD RECORD**

<table>
<thead>
<tr>
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</table>

**PUMP RECORD**

Pump No. Out: Make, Size, Plunger, Mandrel
Pump No. In: Make, Size, Plunger, Mandrel

**TUBING RECORD**

<table>
<thead>
<tr>
<th>Size</th>
<th>No. Joints Out</th>
<th>Feet</th>
<th>No. Joints Run</th>
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</tbody>
</table>

Size of nipples in tubing string and location.

Make of tubing catcher, anchor: Size, Amount of tubing above catcher.

**BAILING RECORD**

Maker of bailer: Size, Bailed from to Formation.


**REMARKS**

See Equip. Mud & Rin. w/ 7" H-40 Workover Shoe. Extension Top Sub, Spooled Move x 6 14" 40 7 98' 00 16 14" 20 of the on 870, 10' 550.85.7 - 055' Over to 335' Torque up to 32,000* String w/ 13,000* x Pull Rate. Attempt to Work over 4 GET BACK TO 335' UNABLE TO GET BELOW 335' UNABLE TO GET TREADS to location until am 6-9 52 secure Well A Shift on Well Tomorrow.

Dr. Kem [signature]
Bob F... [signature]
Merry Friend [signature]

No accidents

Well Went Off A.M. 19
Production P.M. 19

<table>
<thead>
<tr>
<th>HOIST</th>
<th>MAST</th>
<th>SAND LINE</th>
<th>PUMP</th>
<th>SWIVEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>START</th>
<th>STOP</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 A.M</td>
<td>12 P.M</td>
<td>5 1/2</td>
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</table>

<table>
<thead>
<tr>
<th>INSTALLER</th>
<th>PUMPER</th>
<th>SWIVEL</th>
<th>HELPER</th>
</tr>
</thead>
<tbody>
<tr>
<td>G. Wheeler</td>
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<td></td>
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<tr>
<td>L. Armento</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>J. Martinez</td>
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<tr>
<td>E. Hartsock</td>
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<td>HELPER</td>
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<tr>
<td>E. Hartsock</td>
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<td>HELPER</td>
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</tbody>
</table>
**Service Report**

**JOB No** 49987

**Company:** [Handwritten]

**Lease:** [Handwritten]

**Well:** 81

**Field:** [Handwritten]

**Date:** 6-26-92

**Work Order No.:** [Handwritten]

### ROD RECORD

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### PUMP RECORD

- **Pump No. Out.:** [Handwritten]
  - Make
  - Size
  - Plunger
  - Mandrel
- **Pump No. In.:** [Handwritten]
  - Make
  - Size
  - Plunger
  - Mandrel

### TUBING RECORD

<table>
<thead>
<tr>
<th>Size</th>
<th>No. Joints Out</th>
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</tr>
</tbody>
</table>

**Size of nipples in tubing string and location:** [Handwritten]

**Make of tubing catcher, anchor:** [Handwritten]

**Amount of tubing above catcher:** [Handwritten]

**Amount of tubing below catcher:** [Handwritten]

**Maker of bailer:** [Handwritten]

**Size:** [Handwritten]

**Bailed from:** [Handwritten] to [Handwritten] **Formation:** [Handwritten]

**Fluid Level:** [Handwritten]

**Top Perf.:** [Handwritten]

**Bottom Perf.:** [Handwritten]

**Zero Point:** [Handwritten]

### REMARKS

- [Handwritten text]

### INVOICE

- **Fic & Crew:** $12,525.00
- **40 HP Win:** $18,925.00
- **Tower Swivel:** $300.00
- **Mud Pump:** $300.00

**Total:** $18,925.00

**NO Acc.**

**Well Went Off:** A.M. 19

**Well Put On:** A.M. 19

### HOIST

- **#4:**

### MAST

### SAND LINE

### PUMP

### SWIVEL

### PUSHER

- [Handwritten]

### HELPER

- [Handwritten]

### HELPER

- [Handwritten]

### HELPER

- [Handwritten]

**START:** 6:30 A.M. 2 P.M. 7 1/2

**STOP:** 6 P.M. 2 P.M. 7 1/2

**HOURS:** 7 1/2
**Service Report**

**JOB No:** 49988

**Company:** Herb Yancey Inc.

**Lease:** Midnight

**Well:** 8-1

**Field:** Long Beach

---

## ROD RECORD

|------|----------------|--------------|----------------|--------------|--------|

## PUMP RECORD

<table>
<thead>
<tr>
<th>Pump No. Out</th>
<th>Make</th>
<th>Size</th>
<th>Plunger</th>
<th>Mandrel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump No. In</td>
<td>Make</td>
<td>Size</td>
<td>Plunger</td>
<td>Mandrel</td>
</tr>
</tbody>
</table>

## TUBING RECORD

<table>
<thead>
<tr>
<th>Size</th>
<th>No. Joints Out</th>
<th>Feet</th>
<th>No. Joints Run</th>
<th>Depth of Shoe</th>
<th>Total Feet in Hole</th>
</tr>
</thead>
</table>

**Size of nipples in tubing string and location:**

**Make of tubing catcher, anchor:** Size.

**Amount of tubing above catcher:**

**BAILING RECORD**

**Amount of tubing below catcher:**

**Maker of bailer:** Size.

**Bailed from:** to **Formation:**

**Fluid Level:**

**Top Perf.:**

**Bottom Perf.:**

**Zero Point:**

**REMARKS:**

- Equip. Meet stringer Truck @ 9:30 am, A. M. 
- 9:45 a.m. Start, 9:55 a.m. PHI 7" IMPRESSION (Black) No Spec. [Restored] 
- PHI 7" 4:43 pm.
- PHI 7" DRILL COLLAR. 10/32" MILL to 53 7/8" P.D. 4/2/2 to 5/2/2 
- 5 1/8" MILL to 5 5/8" P.D. 4/2/2 5/2/2 
- 5 1/8" MILL to 5 5/8" P.D. 4/2/2 5/2/2 
- 5 5/8" MILL to 5 5/8" P.D. 4/2/2 5/2/2 
- 5 5/8" MILL to 5 5/8" P.D. 4/2/2 5/2/2

---

**Well Went Off Production A.M. 4-11-92**

**Well Put On Production P.M. 4-11-92**

<table>
<thead>
<tr>
<th>HOIST</th>
<th>Start</th>
<th>Stop</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>6 am</td>
<td>5 pm</td>
<td>11</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MAST</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SAND LINE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PUMP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SWIVEL</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PUSHER</th>
<th>Start</th>
<th>Stop</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6 am</td>
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<thead>
<tr>
<th>HELPER 1</th>
<th>Start</th>
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<th>Hours</th>
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<tbody>
<tr>
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<thead>
<tr>
<th>HELPER 2</th>
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<th>Stop</th>
<th>Hours</th>
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<tbody>
<tr>
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<td>11</td>
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<table>
<thead>
<tr>
<th>HELPER 3</th>
<th>Start</th>
<th>Stop</th>
<th>Hours</th>
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<tbody>
<tr>
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<table>
<thead>
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<th>HELPER 4</th>
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<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td>6 am</td>
<td>5 pm</td>
<td>11</td>
</tr>
</tbody>
</table>

---

3477 $0.00 Total
Company: Petro Resources, Inc.
Lease: N.W.L.B.
Well: 8-1
Field: Long Beach

### ROD RECORD

<table>
<thead>
<tr>
<th></th>
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<th></th>
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### PUMP RECORD

<table>
<thead>
<tr>
<th>Pump No. Out</th>
<th>Make</th>
<th>Size</th>
<th>Plunger</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump No. In</td>
<td>Make</td>
<td>Size</td>
<td>Plunger</td>
<td>Mandrel</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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</table>

### TUBING RECORD

<table>
<thead>
<tr>
<th>Size</th>
<th>No. Joints Out</th>
<th>Feet</th>
<th>No. Joints Run</th>
<th>Depth of Shoe</th>
<th>Total Feet in Hole</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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</table>

Size of nipples in tubing string and location:

Make of tubing catcher, anchor:

Amount of tubing above catcher:

### BAILING RECORD

<table>
<thead>
<tr>
<th>Maker of bailer</th>
<th>Size</th>
<th>Bailed from</th>
<th>to</th>
<th>Formation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Fluid Level:

-----------|--------------|------------|

### REMARKS

- Equip: Air Compressor: Leaking, fill is on and try repair services.
- Measurements were: D.M. 7 3/4" Re-Run 3 1/2" Metal. Object in mud cut: Undetermined demagnetization, 12" 4 1/2" mill 4 1/2" x 5 7/8".
- Junk Sub Prome Mill. 7 3 3/4" Bucking 4 1/2" Torque to 150. Unable to establish torque for 4 1/2" "outside wear. 3 1/2" "Circular cut 3 1/2" center work pattern.
- Secure well & shut off.

Start: 10:30 A.M. 1 P.M. 1:45 A.M. 2 45 A.M. 1:45 A.M. 1:45 A.M. 1:45 A.M. 1:45 A.M.

No Inc.

<table>
<thead>
<tr>
<th>Well Went Off</th>
<th>A.M.</th>
<th>Well Put On</th>
<th>A.M.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production</td>
<td>P.M.</td>
<td>19</td>
<td>P.M.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>HOIST</th>
<th>MAST</th>
<th>SAND LINE</th>
<th>PUMP</th>
<th>SWIVEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PUSHER</th>
<th>HELPER</th>
<th>HELPER</th>
<th>HELPER</th>
<th>HELPER</th>
</tr>
</thead>
<tbody>
<tr>
<td>L. Wheeler</td>
<td>M. Herrin</td>
<td>M. Medline</td>
<td>C. Hardison</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>START</th>
<th>STOP</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30</td>
<td>1 P.M.</td>
<td>1:45 A.M.</td>
</tr>
</tbody>
</table>

Sub Plan: 90°
REPORT OF PROPERTY AND WELL TRANSFER

<table>
<thead>
<tr>
<th>Field or county</th>
<th>District</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long Beach</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Former owner</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sun Exploration &amp; Production Co.</td>
<td>June 15, 1983</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name and location of well(s)</th>
<th>Description of the land upon which the well(s) is (are) located</th>
</tr>
</thead>
<tbody>
<tr>
<td>NWLB 5-1 (037-09795) NWLB 8-1 (037-09792) NWLB 9-1 (037-09791)</td>
<td>Sec. 13-4S-13W S.B.B. &amp;M.</td>
</tr>
<tr>
<td>NWLB 5-2 (037-00397) NWLB 8-2 (037-09793) NWLB 9-4 (037-00392)</td>
<td></td>
</tr>
<tr>
<td>NWLB 5-3 (037-09796) NWLB 8-3 (037-06496) NWLB 9-5 (037-00142)</td>
<td></td>
</tr>
<tr>
<td>NWLB 5-4 (037-09797) NWLB 8-4 (037-06415) NWLB 9-6 (037-00393)</td>
<td></td>
</tr>
<tr>
<td>NWLB 6-1 (037-09788) NWLB 8-7 (037-22512)</td>
<td></td>
</tr>
<tr>
<td>NWLB 6-2 (037-09789) NWLB 9-2 (037-13525)</td>
<td></td>
</tr>
</tbody>
</table>

Date of transfer, sale, assignment, conveyance, or exchange: May 1, 1983

New owner: Petro Resources, Inc.
Address: 4200 Easton Drive, Suite 16
Bakersfield, CA 94309
Type of organization: Corp.
Telephone No.: 805/323-4118

Reported by: Letter from Sun Exploration & Production Co. dated 5-16-83.

New operator new status (status abbreviation): PA
Request designation of agent: Joe D. Rose, same address.
Old operator new status (status abbreviation): PA
Remarks:

OPERATOR STATUS ABBREVIATIONS

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA</td>
<td>Producing Active</td>
</tr>
<tr>
<td>NPA</td>
<td>No Potential Active</td>
</tr>
<tr>
<td>PI</td>
<td>Potential Inactive</td>
</tr>
<tr>
<td>NPI</td>
<td>No Potential Inactive</td>
</tr>
<tr>
<td>Ab</td>
<td>Abandoned or No More Wells</td>
</tr>
</tbody>
</table>

FORM AND RECORD CHECK LIST

<table>
<thead>
<tr>
<th>Form or record</th>
<th>Initials</th>
<th>Date</th>
<th>Form or record</th>
<th>Initials</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>OGD121</td>
<td>CP</td>
<td>1-1-83</td>
<td>OGD140</td>
<td>NO</td>
<td>N/E</td>
</tr>
<tr>
<td>New well cards</td>
<td>CP</td>
<td>1-1-83</td>
<td>Well records</td>
<td>CP</td>
<td>1-2-83</td>
</tr>
<tr>
<td>Electric logs</td>
<td>CP</td>
<td>1-1-83</td>
<td>Production reports</td>
<td>CP</td>
<td>1-2-83</td>
</tr>
</tbody>
</table>
Name change from Sun Oil Co. to SUN EXPLORATION & PRODUCTION CO.
1-1-82, Form 156 dated 1-21-82. See ownership file.
REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

Long Beach, California
Oct. 4, 1979

Mr. L. B. Carroll, Jr., Agent
Sun Oil Co.
23928 Lyons Ave.
Newhall, CA 91321

DEAR SIR:

Your request dated March 19, 1979, relative to change in designation of well(s) in Sec. 13, T. 4S, R. 13W, S. B. B. & M., Long Beach field, Los Angeles County, District No. 1, has been received; and in accordance with Section 3203, Public Resources Code, reading in part as follows:

"* * * The number or designation by which any well heretofore drilled has been known, and the number or designation specified for any well in a notice filed as required by Section 3203, shall not be changed without first obtaining a written consent of the Supervisor."

the proposed change in designation is hereby authorized as follows:

<table>
<thead>
<tr>
<th>Old Designation</th>
<th>API</th>
<th>New Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Oll Operators&quot; 1</td>
<td>037-09792</td>
<td>NWLB 8-1</td>
</tr>
<tr>
<td>&quot; &quot; 2</td>
<td>037-09793</td>
<td>NWLB 8-2</td>
</tr>
<tr>
<td>&quot; &quot; 3</td>
<td>037-06496</td>
<td>NWLB 8-3</td>
</tr>
<tr>
<td>&quot; &quot; 4</td>
<td>037-06415</td>
<td>NWLB 8-4</td>
</tr>
<tr>
<td>&quot;Pool&quot; 1</td>
<td>037-09795</td>
<td>NWLB 5-1</td>
</tr>
<tr>
<td>&quot; &quot; 2</td>
<td>037-00397</td>
<td>NWLB 5-2</td>
</tr>
<tr>
<td>&quot; &quot; 3</td>
<td>037-09796</td>
<td>NWLB 5-3</td>
</tr>
<tr>
<td>&quot; &quot; 4</td>
<td>037-09797</td>
<td>NWLB 5-4</td>
</tr>
<tr>
<td>&quot;Amebco&quot; 1</td>
<td>037-09788</td>
<td>NWLB 6-1</td>
</tr>
<tr>
<td>&quot; &quot; 2</td>
<td>037-09789</td>
<td>NWLB 6-2</td>
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<tr>
<td>&quot;Flood Control&quot; 2</td>
<td>037-13525</td>
<td>NWLB 9-2</td>
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<tr>
<td>&quot; &quot; 3</td>
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<td>NWLB 9-3</td>
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<tr>
<td>&quot; &quot; 4</td>
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<tr>
<td>&quot; &quot; 6</td>
<td>037-00393</td>
<td>NWLB 9-6</td>
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</table>

RWS: sc

cc: Update Center
    EDP
    Conservation Committee

By Richard W. Stehl
   Acting Deputy Supervisor

R. A. Ybarra
Division of Oil and Gas

Gentlemen:

This is a request for a change of well designation for the following well(s):

Sec.13, T.45, R.13W, S.B. & M., Long Beach field, Los Angeles County.

<table>
<thead>
<tr>
<th>OLD WELL #</th>
<th>OLD DESIGNATION</th>
<th>OLD NAME</th>
<th>OIL OPERATORS</th>
<th>NEW WELLS</th>
<th>NEW DESIGNATION</th>
<th>NEW NAME</th>
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<tbody>
<tr>
<td>1</td>
<td>03709792</td>
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<td></td>
<td>8-1</td>
<td>NORTHWEST LONG BEACH UNIT</td>
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<tr>
<td>2</td>
<td>03709793</td>
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<td>8-2</td>
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<tr>
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<td>03706496</td>
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<tr>
<td>4</td>
<td>03706415</td>
<td></td>
<td></td>
<td>8-4</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
</tbody>
</table>

RS:Dave Williams 9/25/79
OK to use "NWLBU"

June Oil Co.
(Name of Operator)
23928 Lyons Ave
(Address)
Newhall, Calif 91321

By: [Signature]

Form 42 (10/71)
Division of Oil and Gas

Gentlemen:

This is a request for a change of well designation for the following well(s):

Sec. 13, T. 45, R. 13W, SB B. & M., Long Beach field, Los Angeles County.

<table>
<thead>
<tr>
<th>OLD WELL #</th>
<th>OLD DESIGNATION</th>
<th>OLD NAME POOL</th>
<th>NEW WELL #</th>
<th>NEW DESIGNATION</th>
<th>NEW NAME</th>
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<tbody>
<tr>
<td>1</td>
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<td>5-1</td>
<td>NORTHWEST LONG BEACH UNIT</td>
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<tr>
<td>2</td>
<td>03700397</td>
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<td>5-2</td>
<td>&quot;</td>
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<td>3</td>
<td>03709796</td>
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<td>5-3</td>
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<td>4</td>
<td>03709797</td>
<td>ADELADEO</td>
<td>5-4</td>
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<tr>
<td>1</td>
<td>03709788</td>
<td></td>
<td>6-1</td>
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<td>2</td>
<td>03709789</td>
<td>FLOOD CONTROL</td>
<td>6-2</td>
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<td>&quot;</td>
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<td>2</td>
<td>03712525</td>
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<td>03700393</td>
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<td>9-6</td>
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<td>&quot;</td>
</tr>
</tbody>
</table>

Sun Oil Company
(Name of Operator)

23928 Lyons Avenue
(Address)

Newhall, Calif 91321

By Jack Andrews [Signature]
# REPORT OF PROPERTY AND WELL TRANSFER

**Field or county:** Long Beach  
**Former owner:** General Exploration Co.  
**Date:** February 15, 1979

<table>
<thead>
<tr>
<th>Sec. 11-4S-13W</th>
<th>Sec. 13-4S-13W</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Domínguez&quot; 2-10 (037-11859)</td>
<td>&quot;Flood Control&quot; 6 (037-00393)</td>
</tr>
<tr>
<td>&quot;Oil Operators&quot; 1 (037-09792)</td>
<td>&quot;Oil Operators&quot; 2 (037-09793)</td>
</tr>
<tr>
<td>&quot;Oil Operators&quot; 3 (037-06496)</td>
<td>&quot;Oil Operators&quot; 4 (037-06415)</td>
</tr>
<tr>
<td>&quot;Oil Operators&quot; 5 (037-00395)</td>
<td>&quot;Pool&quot; 1 (037-09795)</td>
</tr>
<tr>
<td>&quot;Pool&quot; 2 (037-00397)</td>
<td>&quot;Pool&quot; 3 (037-09796)</td>
</tr>
<tr>
<td>&quot;Pool&quot; 4 (037-09797)</td>
<td>&quot;Pool&quot; 5 (037-00142)</td>
</tr>
</tbody>
</table>

**Description of the land upon which the well(s) is (are) located:**
- Sec. 14-4S-13W
  - "Domínguez" 1 (037-11858)

**Date of transfer:** Dec. 1, 1978  
**New owner:** Sun Oil Company  
**Address:** 23928 Lyons Avenue  
**Newhall, CA 91321**

**New operator:**  
**Status designation or agent:**
- PA

**Former operator:**  
**Remarks:**

**OPERATOR STATUS ABBREVIATIONS**
- PA = Producing Active
- NPA = No Potential Active
- PI = Potential Inactive
- NPI = No Potential Inactive
- AB = Abandoned or No More Active

**FORM AND RECORD CHECK LIST**

- Form or record: Map and book
  - Initials: M.B. Albright  
  - Date: 2-16-79

**Signatures:**
- "Edwin B. Reidel"
May 21, 1976

Mr. Robert L. Graves
GENERAL EXPLORATION CO.
4021 N. Pacific Place
Long Beach, California 90806

Dear Sir:

On May 20, 1976, Mr. G. W. Stark, our representative met with Bob Grey, your representative, to witness that one support piling was cut 20 feet below ground level. The Division approves of this method of pile removal if the holes are filled with tamped earth.

Sincerely,

A. B. Stockton
Associate Oil and Gas Engineer

ADS:dr
REPORT OF PROPERTY AND WELL TRANSFER

Field or County: Long Beach
District: 1

Former Owner: Union Oil Co. of California
Date: January 17, 1961

Description of Property: Sec. 13, T. 4 S., R. 13 W., S. B. B. & M.

List of Wells: "Oil Operators" 1, "Oil Operators" 2, "Oil Operators" 3 and "Oil Operators" 4. ("Oil Operators" 1, idle; other wells are active)

Date of Transfer: January 1, 1961
New Owner: General Exploration Co. of California
Address: 750 Subway Terminal Building, 417 South Hill Street, Los Angeles 13, Calif.

Telephone No.

Type of Organization: Corporation
Reported by: Union Oil Co. of California (Letter of January 6, 1961)
Confirmed by: General Exploration Co. of California (Letter of January 11, 1961)
PA, Old Operator New Status: PA
PA, New Operator New Status: No

Remarks:

CC- Mr. E. H. Musser
Prod. Dept.
Conservation Committee

Form 121  INITIALS  DATE
New Well Cards  CB  1-17-61
Well Records  SB  1-17-61
Electric Logs  CB  1-17-61
Production Reports  CB  1-17-61
Map and Book  190  SC, 1-18-61
Form 148  
Notice to be cancelled  No, 1-30-61

LEGEND
PA—Producing Active
NPA—Non Potential Active
PI—Potential Inactive
NPI—Non Potential Inactive
Ab—Abandoned or No More Wells
Note—If Transfer Does Not Change Overall Status Enter "No Change"

(S.W. & N.W. of inter Concord Pl. & P.E. Ay.)
January 11, 1961

General Exploration Co. of California
417 South Hill Street
Los Angeles 13, California

Gentlemen

We have been informed that on January 1, 1961, you acquired Union Oil Company of California wells No. "Oil Operators" 1, "Oil Operators" 2, "Oil Operators" 3 and "Oil Operators" 4, Sec. 13, T. 4 S., R. 13 W., S. B.B. & M., Long Beach field.

Please furnish us with the information requested below which may be submitted on the duplicate copy of this letter attached. Please complete the letter, sign and return it to this office as soon as possible.

Yours truly

Wm. C. Bailey
Deputy Supervisor

By

J. H. Thomas
Associate Oil & Gas Engineer

1. Effective date you acquired the wells: January 1, 1961

2. Name and address of the person or company from whom you acquired the wells: Union Oil Company of California
   161 So. Boylston St., Los Angeles 17, California

3. What are your plans for the wells: Continue producing wells

4. Brief legal description of the property on which the wells are located: Portions of Secs. 13 and 14, T. 4 S., R. 13 W., S.B.B. & M. in Long Beach field shown on D.O.G. Map No. 20 as Union Oil Co. of Calif. "Oil Operators" lease.

   L-11-61
   (Date)

   By

   [Signature]
Wm. C. Bailey  
Deputy Supervisor  
Division of Oil and Gas  
830 North La Brea Avenue  
Inglewood 3, California

Re: LONG BEACH AREA  
Los Angeles County, California  
Oil Operators, Inc. Lease

Dear Mr. Bailey:

Pursuant to Article 4, Chapter 1, Division 3 of the Public Resources Code, notice is hereby given that Union Oil Company of California has sold and transferred to General Exploration Co. of California, 750 Subway Terminal Building, Los Angeles 13, California, effective as of 7:00 o'clock a.m., January 1, 1961, the following oil and gas wells:

Section 13, Township 4 South, Range 13 West

Oil Operator #1 (Standing)  
Oil Operator #2  
Oil Operator #3  
Oil Operator #4

Very truly yours,

G. B. Hall  
Supervisor of Lease Processing

By W. A. Watson

WAW/jb  
cc: General Exploration Co. of California  
750 Subway Terminal Building  
Los Angeles 13, California

Attention: Mr. C. G. Willis, President
STENOGRAPHER

Forms Filed: 102
Date Rec'd: 10-3-44

Electric Log:

Location:

Elevation:

ENGINEER

Form Needed: X
Map Correction: X

Form 150b (Date of Release)

At Request of Operator
Because Abandoned
Because Request by Oper.

Remarks: See file for subsequent
           staff report.
SUBMIT IN DUPLICATE
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS
Subsequent Work Report

Operator: Union Oil Company of California  Field: Long Beach

Well No.: Oil Operators #1, Sec. 13, T. 14 S., R. 13 W., S.B. B. & M.

In compliance with the provisions of Chapter 718, Statutes 1915, as amended, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated Sept. 6, 1929, was filed.

Signed: Henry E. White

Date: September 27, 1944

Title: Division Engineer

(Chairman, Secretary or Agent)

Outline in the order of performance, together with the dates thereof, all important operations which alter the condition of the well. Include such information as depth at which redrilling operations were started, size of hole redrilled or deepened; size of pipe, amount of perforations in casing, weight and length of casing landed or cemented or removed; number of balls of cement used in cementing or plugging operations and exact position thereof. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

<table>
<thead>
<tr>
<th>Date</th>
<th>Depth</th>
<th>Effective Depth</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1944</td>
<td>4532</td>
<td>Liner 4529</td>
<td>Rigged up to plug and perforate higher.</td>
</tr>
<tr>
<td>8-26</td>
<td>4532</td>
<td>Plug 4443</td>
<td>Cleaned out sand from 4497 to 4529'. Dumped 15 sacks of Blue Diamond construction cement in stages to fill from 4529 to 4443'. Location of plug at 4443' witnessed by Division of Oil and Gas.</td>
</tr>
<tr>
<td>9-4</td>
<td>4532</td>
<td>Plug 4443</td>
<td>Bailed out 143 barrels of oil and 8 barrels of water to lower fluid level from 525' to 1105'.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Note:</strong> Apparently the Securaloy or some other part of the liner was letting fluid through, as all of the perforations were plugged.</td>
</tr>
<tr>
<td>9-8</td>
<td>4532</td>
<td>Plug 4124</td>
<td>Set 6-5/8&quot; Cavin's drillable bridge plug at 4200'. Dumped 8-1/2 sacks of Blue Diamond construction cement in stages to fill from 4200 to 4124'. Bailed out 194 barrels of water to lower fluid level from 830 to 1725'. Slight show of oil.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Note:</strong> Securaloy liner must be defective since plug in 6-5/8&quot; is only 21' from shoe of 8-5/8&quot; and 6-5/8&quot; has not been perforated.</td>
</tr>
<tr>
<td>9-10</td>
<td>4532</td>
<td>Plug 4124</td>
<td>Ran rods and 3-1/2&quot; upset tubing to 2419' overall and put well to pumping.</td>
</tr>
</tbody>
</table>

**Production Data**

<table>
<thead>
<tr>
<th>Hrs.</th>
<th>Gross</th>
<th>Net</th>
<th>Gravity</th>
<th>Cust.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-12</td>
<td>24</td>
<td>713</td>
<td>0</td>
<td>100.0</td>
<td></td>
</tr>
<tr>
<td>9-14</td>
<td>24</td>
<td>698</td>
<td>0</td>
<td>100.0</td>
<td></td>
</tr>
<tr>
<td>9-16</td>
<td>18</td>
<td>428</td>
<td>0</td>
<td>100.0</td>
<td>Changed pump.</td>
</tr>
<tr>
<td>9-18</td>
<td>24</td>
<td>610</td>
<td>0</td>
<td>100.0</td>
<td></td>
</tr>
<tr>
<td>9-20</td>
<td>24</td>
<td>610</td>
<td>0</td>
<td>100.0</td>
<td></td>
</tr>
</tbody>
</table>
Dear Sir:

Operations at your well No. "Oil Operators" 1 Sec. 13, T. 4 S., R. 13 W., S.B. B. & M.,

Long Beach Field, in Los Angeles County, were witnessed by

Agent for UNION OIL COMPANY OF CALIFORNIA

A. Pfeil, Inspector, representative of the supervisor,

on Sept. 1, 1944. There was also present William Falconer, Driller, and

Leo Hurry, Helper.

Casing Record: 13-3/8" casing, 757'; 8-5/8" casing, 41105'; V.S. Junk None
6-5/8" 4529'-4529', c.p. 4475', perf. 4479'-4529'; T.D.
4532', plugged with cement 4529'-4443'.

The operations were performed for the purpose of testing the location and hardness of a cement plug placed from 4529' to 4443' in the process of plugging.

The inspector arrived at the well at 2:15 p.m. and Mr. Falconer reported:

1. The hole was cleaned out to 4529'.
2. On August 31, 1944, 10 sacks of cement was dumped at 4529'; and on September 1, 1944, an additional 5 sacks was dumped.

THE INSPECTOR NOTED THAT the bailer could not be spudded below 4443' and brought up a sample of set cement.
The test was completed at 3:15 p.m.

THE LOCATION AND HARDNESS OF THE CEMENT PLUG AT 4443' ARE APPROVED.

cc - Mr. H. E. Winter
- Long Beach

R. D. BUSH
State Oil and Gas Supervisor
By E. H. Mussen Deputy
Mr. W. S. Eggleston  

Los Angeles 14, Calif. 

Agent for UNION OIL COMPANY OF CALIFORNIA  

Dear Sir:

Your proposal to plug & alter casing, Well No. "Oil Operators" 1, Section 13, T. 4 S., R. 13 V., S.B. B. & M., Long Beach Field, Los Angeles County, dated July 15, 1944, received July 18, 1944, has been examined in conjunction with records filed in this office.

RECORDS: The condition of the well is as stated in the notice.

THE NOTICE STATES:

"The present condition of the well is as follows:
1. Complete casing record.
   Total depth 4,532'
   13-3/8" C 757'
   8-5/8" C 4,105' O.K.
   505' 6-5/8" L 4,529', inc. 50' perf. C.P. 4,475' (Top 161 ft. of liner Securaloy)
   Well is non-commercial.

2. June, 1944 Prod. 82 22.1 99.3 (29 days)

PROPOSAL:

"The proposed work is as follows:
1. Clean out to 4,529' and plug with cement to 4,455'.
2. Test plug by Division of Oil and Gas.
3. Make casing test and if O.K., perforate 4,250-4,270'.
4. If casing test is wet, cement 4-3/4" casing 4,020-4,300'.
6. If wet, plug to 4,230' and test plug by Division of Oil and Gas.
7. Perforate 4,105 to 4,120 and test."

DECISION:

THE PROPOSAL IS APPROVED.

Blanket bond No. 99071

R. D. BUSH
State Oil and Gas Supervisor
By  S. J. M. B. Deputy
Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well
This notice must be given fifteen days before work begins when possible

Santa Fe Springs, Calif. July 15, 1944

DIVISION OF OIL AND GAS

Los Angeles, Calif.

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of deepening, redrilling, plugging or altering casing at well No. Oil Operators 1

(Cross out unnecessary words)

Sec. 13, T. 4-8, R. 13-W, S.B. B. & M.

Long Beach, Los Angeles County.

The present condition of the well is as follows:

1. Complete casing record.

   Total depth 4,532 ft.
   13-3/8" G 757 ft.
   8-5/8" G 4,105 ft. 0.5 km.
   505 ft. 6-5/8" L 4,529 ft. inc. 50 ft. perf. C.P. 4,475 ft. (Top 161 ft. of liner Securaloy)

   Well is non-commercial.

2. June, 1944 Prod. 82
   (Date) (Net Oil) 22.1
   (Gravity) 99.3 (29 days)

The proposed work is as follows:

1. Clean out to 4,529 ft. and plug with cement to 4,455 ft.
2. Test plug by Division of Oil and Gas.
3. Make casing test and if O.K., perforate 4,250-4,270 ft.
4. If casing test is wet, cement 4-3/4" casing 4,020-4,300 ft.
6. If wet, plug to 4,230 ft. and test plug by Division of Oil and Gas.
7. Perforate 4,105 to 4,120 and test.

By

(Operator)

DIVISION ENGINEER

ADDRESS NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED
DIVISION OF OIL AND GAS

Subsequent Work Report

OPERATOR: Union Oil Co. of Calif.  FIELD: Long Beach

Well No. Oil Operators #1, Sec. 13, T. 4-S, R. 15-W, S.B. B. & M.

In compliance with the provisions of Chapter 718, Statutes 1915, as amended, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated 11-12-1937, was filed.

SIGNED: [Signature]

Date: 9-9-39  Title: Division Engineer

(Inspector, Secretary or Agent)

Outline in the order of performance, together with the dates thereof, all important operations which alter the condition of the well. Include such information as depth at which redrilling operations were started, size of hole redrilled or deepened; size of pipe, amount of perforations in casing, weight and length of casing landed or cemented or removed; number of sacks of cement used in cementing or plugging operations and exact position thereof. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

<table>
<thead>
<tr>
<th>DATE</th>
<th>DEPTH</th>
<th>EFF-DEPTH</th>
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<tbody>
<tr>
<td>7-31-39</td>
<td>4155</td>
<td></td>
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<tr>
<td>8-10-39</td>
<td>4254</td>
<td></td>
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<tr>
<td>8-17-39</td>
<td>4532</td>
<td></td>
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<tr>
<td>8-21-39</td>
<td>4532</td>
<td></td>
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<tr>
<td>8-22-39</td>
<td>4532</td>
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<td>8-25-39</td>
<td>4532</td>
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<td>8-26-39</td>
<td>4532</td>
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<td>8-27-39</td>
<td>4532</td>
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<tr>
<td>9-1-39</td>
<td>4532</td>
<td></td>
</tr>
<tr>
<td>9-4-39</td>
<td>4532</td>
<td></td>
</tr>
</tbody>
</table>

Rig up to pull liner and deepen. Cut and pulled all of liner. Deepening.

Deepened to 4532. 505.15 - 5-5/8 landed 4529 (hung on Burns line hanger) inc 49.62 of 120 mesh (12-1-1/2-6) Kobe and cemented thru Baker whirler basket at 4475 with 125 sacks Victor Oil Well cement. Top 160.9 of liner is 5-5/8 Secureloy.

C.O. to 4150. Top of cement 3794. Bailed fluid to 2810. Splice O K by Division of Oil and Gas.

C.O. to 4529. Bailing.

Ran 4433 - 3" tubing and rods. Rigged up pumping unit.

251 gross 184 Net 22.8 26.5% P 13 hr
254 " 248 " 22.0 2.5% P 24 hr
241 " 226 " 22.0 6.1% P 24 hr
235 " 201 " 22.0 14.3% P 24 hr
**Operator:** Union Oil Company of Calif.  
**Field:** Long Beach  

<table>
<thead>
<tr>
<th>Depth To</th>
<th>Thickness</th>
<th>Drilled or Cored</th>
<th>Recovery</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top of Formation</td>
<td>4155</td>
<td>4532</td>
<td>377</td>
<td>Drilled &amp; Quit on shell</td>
</tr>
<tr>
<td>DATE</td>
<td>CORE NO.</td>
<td>DRILLER SIZE &amp; TYPE</td>
<td>FROM</td>
<td>TO</td>
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<td>----------</td>
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<tr>
<td>8-11-39</td>
<td>1</td>
<td>7-5/8&quot; Elliott</td>
<td>4375</td>
<td>4395</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td></td>
<td>4385</td>
<td>4395</td>
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<td>4395</td>
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<td>4405</td>
<td>4415</td>
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<td>5</td>
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<td>4415</td>
<td>4425</td>
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<td></td>
<td>6</td>
<td></td>
<td>4425</td>
<td>4435</td>
</tr>
<tr>
<td>8-12-39</td>
<td>7</td>
<td>7-5/3&quot; Elliott</td>
<td>4435</td>
<td>4445</td>
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<td>8</td>
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<td>4445</td>
<td>4455</td>
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<td></td>
<td>9</td>
<td></td>
<td>4455</td>
<td>4465</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td></td>
<td>4465</td>
<td>4475</td>
</tr>
</tbody>
</table>

*Signature: Henry Elliott*
<table>
<thead>
<tr>
<th>DATE</th>
<th>CORE NO.</th>
<th>DRILLER</th>
<th>SIZE &amp; TYPE BBL</th>
<th>FROM</th>
<th>TO</th>
<th>TOTAL REC.</th>
<th>SHALE</th>
<th>OIL SAND</th>
<th>GRAY SAND</th>
<th>SHELL</th>
<th>DESCRIPTION OF CORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-12-39</td>
<td>11</td>
<td>Elliott</td>
<td>7-5/8&quot;</td>
<td>4475</td>
<td>4485</td>
<td>9.6</td>
<td>4.7</td>
<td>0.1</td>
<td>0.1</td>
<td>0.5</td>
<td>Hard brown shale, slightly silty in spots. 0.3 at top broken. Streaks of fine brown oil sand in bottom 1.6. Firm fine brown oil sand. Hard slightly silty brown shale with partings of fine brown oil sand. Firm to firm soft, fine brown oil sand, grading to medium at bottom. Good odor and dark amber cut. Hard brown shale. Hard silty brown shale with streaks and partings of fine brown oil sand. Firm to firm soft, medium brown oil sand. Good odor and dark amber cut. Hard brown shale. Firm, fine slightly argillaceous brown oil sand.</td>
</tr>
<tr>
<td>5-6-40</td>
<td>13</td>
<td></td>
<td></td>
<td>4490</td>
<td>4500</td>
<td>2.7</td>
<td>1.5</td>
<td>0.1</td>
<td>0.1</td>
<td>0.5</td>
<td>Hard broken brown shale, apparent dip 30°. Hard broken brown shale, badly broken in coring and mixed with mud. 0.1 crushed zone at top.</td>
</tr>
<tr>
<td>8-13-39</td>
<td>14</td>
<td></td>
<td></td>
<td>4500</td>
<td>4510</td>
<td>0.0</td>
<td>1.2</td>
<td>0.0</td>
<td>0.0</td>
<td>2.7</td>
<td>No recovery.</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td></td>
<td></td>
<td>4510</td>
<td>4515</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
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<td>0.0</td>
<td>No recovery.</td>
</tr>
<tr>
<td>3-1-39</td>
<td>16</td>
<td></td>
<td></td>
<td>4515</td>
<td>4520</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>No recovery.</td>
</tr>
<tr>
<td>DATE</td>
<td>Core No.</td>
<td>Driller</td>
<td>FROM</td>
<td>TO</td>
<td>Total Recr.</td>
<td>SHALE</td>
<td>OIL SAND</td>
<td>GRAY SAND</td>
<td>SHELL</td>
<td>Description of Core</td>
<td></td>
</tr>
<tr>
<td>-------</td>
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<td>--------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>8-13-39</td>
<td>17</td>
<td>7-5/9&quot;</td>
<td>4520</td>
<td>4525</td>
<td>5.6</td>
<td>3.6</td>
<td>2.2</td>
<td>5.8</td>
<td>2.2</td>
<td>Firm medium brown oil sand, grading to coarse pebbly brown oil sand</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Elliott</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Firm soft fine brown oil sand, good odor and dark amber cut</td>
<td></td>
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<td>Firm soft medium to coarse, slightly pebbly in spots, brown oil sand</td>
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<td>Good odor and dark amber cut</td>
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<td></td>
<td>Firm soft fine grading to medium brown oil sand, good odor and dark amber cut</td>
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<td></td>
<td>18</td>
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<td>3.4</td>
<td>2.3</td>
<td>5.7</td>
<td>2.3</td>
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<td>19</td>
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<td>4532</td>
<td>2.9</td>
<td>2.9</td>
<td></td>
<td></td>
<td></td>
<td>Firm soft to soft coarse, slightly pebbly brown oil sand. Fair odor and dark amber cut</td>
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<td>Sand does not look too good</td>
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<td>T.D. 4532 8-13-39</td>
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</table>
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

LOS ANGELES, Calif., 9/5/1939

Union Oil Co. of Calif.

Name of Operator

LOS ANGELES

Address

This is to acknowledge the receipt of logs and similar records of wells on Sec. 18 T. 13 W. - Long Acres B. & M., as herewith enumerated by well numbers.

Logs

History

Core record

Subsequent work

All Log - Oil Operator 8/13/39

R. D. BUSH, State Oil and Gas Supervisor

By [Signature]

DUPLICATE

FORM 127, 1937 1-39 SHOPO TRIP

CALIFORNIA STATE PRINTING OFFICE
Mr. W. L. Eggleston, Agent for UNION OIL COMPANY OF CALIFORNIA

Dear Sir:

Operations at your well No. "OIL OPERATORS" 1 Sec. 13, T. 45S., R. 13W., S. B. & M., Long Beach, County, were witnessed by C. Peirce, Engineer, in Los Angeles County, on August 21, 1939. There was also present H. E. Winter, Engineer, and H. C. Richardson, Foreman.

The operations were performed for the purpose of demonstrating that fluid does not have access to the well between the 6-5/8" and 8-5/8" casings, and the data and conclusions are as follows:

ENGINEER PEIRCE ARRIVED AT THE WELL AT 11:45 P. M. AND MR. WINTER REPORTED THE FOLLOWING:

1. The 6-5/8" liner landed at 4,155' was all recovered.
2. An 8 1/2" rotary hole was drilled from 4,105' to 4,532'.
3. Mud fluid was circulated 4 hr. before cementing the casing.
4. Electrical core readings showed the following: 4,440' - 4,680' - shale (J-K).
5. On August 17, 1939, 505' of 6-5/8" casing (top 161' Securaloy, bottom 344' - 26 lb.), including 50' of perforated, was landed at 4,529' and was cemented through perforations at 4,751' with 125 sacks of Victor cement.
6. Cement was drilled out of the 8-5/8" and 6-5/8" casings from 3794' to 4035', equivalent to 68 sacks, and the casing was cleaned out to 4150'.
7. The fluid was bailed to 2500' at 4:45 p. m., on August 21, 1939.

ENGINEER PEIRCE NOTED THE FOLLOWING:

1. The fluid rose 10' in 7/2 hr., equivalent to 1 bbl. per 24 hr.
2. The hole was open at 4,200'.

The test was completed at 12:30 a. m.

THE OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED AS INDICATING THAT fluid does not have access to the well between the 6-5/8" and 8-5/8" casings.

cc: H. E. Winter

Long Beach

G.P. G.

R. D. BUSH
State Oil and Gas Supervisor

By E. F. SEWALL spl Dealer
Mr. W. S. Eggleston, 
Los Angeles, Calif.,

Agent for UNION OIL COMPANY OF CALIFORNIA

Dear Sir:

Your proposal to deepen Well No. "OIL OPERATORS" 1, Section 13, T. 4 S., R 13 W., S.E. 1/4 B. & M., Long Beach Field, Los Angeles County, dated July 24, 1939, received July 26, 1939, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS: The condition of the well is as stated in the notice.

THE NOTICE STATES:
"The present condition of the well is as follows:
4155' deep
13-3/8" C 757'
8-5/8" C 4105' O.K.
68' 6-5/8" L 4155', inc. 47' perf.
June, 1939 production 1034 oil, 16,287 water - 30 days."

PROPOSAL:
"The proposed work is as follows:
1. Pull 6-5/8" liner.
2. Deepen to approximately 4535'.
3. Land 6-5/8" liner, including 110' perforated, at 4535' and cement through perforations at approximately 4425'."

DECISION:
The PROPOSAL IS APPROVED PROVIDED THAT THIS DIVISION SHALL BE NOTIFIED TO WITNESS a test after drilling out the cement to within 50' of the cementing point to demonstrate that no fluid has access to the well between the 6-5/8" and 8-5/8" casings.

cc- H. E. Winter
Long Beach
WJC:OH

R. D. BUSH
State Oil and Gas Supervisor

By: [Signature]

Deputy
Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well
This notice must be given fifteen days before work begins when possible

Santa Fe Springs  Calif.  July 24 1939

DIVISION OF OIL AND GAS

Los Angeles  Calif.

In compliance with Section 17, Chapter 718, Statutes of 1913, as amended, notice is hereby given that it is our intention to commence the work of deepening, re-drilling, plugging or altering well No. Oil Operators #1
(Cross out unnecessary words)

Sec. 13, T. 4-S, R. 13-W, S.E. B. & M.

Long Beach  Field,  Los Angeles  County.

The present condition of the well is as follows:

4155' deep
13-3/8" C 757'
8-5/8" C 4105' O.K.
68' 6-5/8" L 4155', inc. 47' perf.

June, 1939 production 1034 oil, 16,287 water = 30 days

The proposed work is as follows:

1. Pull 6-5/8" liner.
2. Deepen to approximately 4535'.
3. Land 6-5/8" liner, including 110' perforated, at 4535' and cement through perforations at approximately 4425'.

UNION OIL COMPANY OF CALIFORNIA

(Name of Operator)

By: Henry E. White
Division Engineer

Address: Notice to Division of Oil and Gas in District Where Well is Located
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS
LOS ANGELES

Name of Operator

Los Angeles

Calif. 11/30/1937

This is to acknowledge the receipt of logs and similar records of wells on Sec. 13 T. 4 S.
R. 13 W.-long 13 T.

B. & M., as herewith enumerated by well numbers.

Logs:

History
Core record
Subsequent work

R. D. BUSH, State Oil and Gas Supervisor

Duplicate

FORM 127. 48515 7-37 37

CALIFORNIA STATE PRINTING OFFICE
DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR: UNION OIL COMPANY OF CALIFORNIA
FIELD: LONG BEACH

Well No.: OIL OPERATORS NO. 1, Sec., T., R., SB: 15, 43, 13W, 5B

Signed: 

Date: NOVEMBER 12, 1937
Title: DISTRICT ENGINEER

It is of the greatest importance to have a complete history of the well. Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production. Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of cement used in the plugging, number of sacks or number of feet of cement drilled out of casing, depth at which cement plugs started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or boring.

**1937**

**Cased Record at Start of Work.**

NEW WELL

**Depth Eff. Depth Remarks**

9-30 187

Spudded in and drilled with 7" rotary bit.

10-3 757

Drilled with 17" bits to 757'. Cemented new 13-3/8" 45.97# National seamless slipjoint casing at 757' with 350 sacks v elo cement. Cementing operation approved by Pierce, of D-C-G.

10-4 617

Found top of cement at 757'. Cleaned out cement and plugs. Drilled ahead with 12-1/4" bit.

10-13 4110

Drilled and cored to 4063'. Run Schlumberger survey. Cored ahead to 4110'.

10-14

Enlarged hole to 4063' with 12-1/4" reamer. Cemented 8-5/8" - 30# Grade "C" (610' of Grade D on bottom) 8 thread rounded seamless casing at 4105', with 400 sacks Victor Oil Well cement.

10-20

Found top of cement at 4061'. Cleaned out cement and plugs to 4110'. WSO test on 8-5/8" casing at 4106', witnessed and approved by Murray Aaron of D-C-G. Directional survey of hole made by Alexander Anderson.

10-21 4156

Cored ahead to 4155' with 7-5/8 barrel.

10-22

Landed 68' of 6-5/8" 26# Grade "C" 10 thread casing at 4156' including 47' of 120 Mesh (16-2-6-) Kobe perforated on bottom.

10-23

Landed 5" upset tubing at 4077'. Installed Xmas tree. Swabbed fluid to 2000'. Well started flowing by heads. OP 225#. 
History of Oil or Gas Well

Operator: UNION OIL COMPANY OF CALIFORNIA
Field: LONG BEACH

Well No.: OIL OPERATORS NO. 1, Sec. 13, T. 4S, R. 13W, 5B. & M.

Signed: [Signature]

Date: NOVEMBER 12, 1937

Title: DISTRICT ENGINEER

(Chairman, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production. Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of cement used in the plugging, number of sacks or number of feet of cement drilled out of casing, depth at which cement plugs started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailin.

<table>
<thead>
<tr>
<th>Date</th>
<th>Production Test Data</th>
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<td>Gross</td>
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<td>10-24</td>
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<td>11-11</td>
<td>553</td>
</tr>
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<td>11-11</td>
<td>456</td>
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DIVISION OF OIL AND GAS

LOG OF OIL OR GAS WELL

Operator: UNION OIL COMPANY OF CALIFORNIA   Field: LONG BEACH

Well No. OIL OPERATORS #1   Sec. 35   45 R. 15W   SB   B. & M.

665 s'ly along the prolongation of the center line of the W'ly portion of San Antonio Drive, from the center line of Del Mar Ave. thence 110' N'ly at right angles.

Location Elevation 56.84'

In compliance with the provisions of Chapter 718, Statutes of 1915, as amended, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date: NOVEMBER 12, 1937   Signed: [Signature]

(Engineer or Geologist)   (Superintendent)   (President, Secretary or Agent)


Total depth: 4155   Plugged depth: 

Junk: 

GEOL GICAL MARKERS

Top of Wilbur shale: 3647
Top Alamitos shale: 5976
Top brown sand: 4106'

Commenced producing: OCTOBER 24, 1937

Initial production: 363 bbl. per day

Production after 30 days: 461 bbl. per day

Casing Record (Present Hole)

Size of Casing (A. P. L.) Depth of Shoe Top of Casing Weight of Casing New or Second Head Seamless or Lapweld Grade of Casing Size of Hole Casing landed in Number of Sacks of Cement Depth of Cementing if through perforations

15-5/8 757 Surface 45.97 New 8m1s C 17' 350

6-5/8 4105 4067 26 26 26 C 7-8 -

Perforations

Size of Casing From To Size of Perforations Number of Rounds Distance Between Centers Method of Perforations

6-5/8 4105 4155 ft. 120 Mesh 16 6" Kobo

Electrical Log Depths: Schlumberger from 757 - 4065' (Attach Copy of Log)
### FORMATIONS PENETRATED BY WELL

<table>
<thead>
<tr>
<th>Depth To</th>
<th>Thickness</th>
<th>Drilled or Cored</th>
<th>Recovery</th>
<th>Description</th>
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<tr>
<td>Top of Formation</td>
<td>Bottom of Formation</td>
<td></td>
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<td></td>
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<tr>
<td>0</td>
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<td></td>
<td>Surface clay</td>
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<td>40</td>
<td>254</td>
<td>214</td>
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<td>Clay and sand</td>
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<td>254</td>
<td>592</td>
<td>338</td>
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<td>Sand and boulders</td>
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<td>592</td>
<td>730</td>
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<td>Sand</td>
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<td>730</td>
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<td>Shale and streaks of sand</td>
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<tr>
<td>934</td>
<td>990</td>
<td>6</td>
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<td>990</td>
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<td>359</td>
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<td>Shale and streaks of hard sand</td>
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<td>1349</td>
<td>3083</td>
<td>1734</td>
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<td>Shale and streaks of sand</td>
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<td>3083</td>
<td>3087</td>
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<td>Shell</td>
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<td>Shale and streaks of sand</td>
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<td>3253</td>
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<td>Hard sand</td>
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<td>Sand and shale</td>
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<td>Hard sand</td>
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<td>Shell</td>
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<td>Medium hard sand and shale</td>
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<td>Date</td>
<td>Well</td>
<td>Depth</td>
<td>Completion</td>
<td>Description</td>
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<td>1</td>
<td>7-5/8</td>
<td>4010</td>
<td>Sh. 0, Q. S. 4010, G. Sd. 17.2, Shell 4.6</td>
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<td>4028</td>
<td>Drilled, firm soft medium to coarse gray sand. No odor.</td>
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<td>Firm fine compact gray sand, grading to medium in lower part.</td>
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<td>Hard brown shale, streaks of fine gray sand.</td>
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<td></td>
<td>Hard brown shale, streaks of fine gray sand. Good dips of 31°-33°</td>
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<td>Firm soft medium to coarse gray sand. Streak of brown shale top.</td>
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<td>4040</td>
<td>Sh. 0, Q. S. 4040, G. Sd. 10.3, Shell 0.8</td>
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<td>4041</td>
<td>Drilled, firm soft medium gray sand.</td>
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<td></td>
<td>4053</td>
<td>Broken brown shale, inclusions of medium gray sand.</td>
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<td></td>
<td>4076</td>
<td>Firm soft medium gray sand, grading to very fine on bottom.</td>
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<td></td>
<td>Hard brown shale, streaks of fine gray sand. Poor dip of 20°</td>
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<td></td>
<td>Very fine firm gray sand.</td>
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<td></td>
<td>Hard brown shale.</td>
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<td></td>
<td>Firm soft fine gray sand.</td>
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<td></td>
<td></td>
<td>Hard brown shale.</td>
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<td></td>
<td>Firm soft medium gray sand.</td>
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<td></td>
<td></td>
<td>0.7</td>
<td>Hard coarse calcareous sandstone. Vertical fracture.</td>
</tr>
<tr>
<td>10-14</td>
<td>4</td>
<td>7-6/8</td>
<td>4053</td>
<td>Sh. 0, Q. S. 4053, G. Sd. 15.0, Shell 5.0</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>4076</td>
<td>Drilled, firm soft medium gray sand. No odor.</td>
</tr>
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<td></td>
<td></td>
<td>Hard brown silty shale, streaks and partings of fine gray sand. Dip of 20°</td>
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<td></td>
<td></td>
<td>Firm soft medium gray sand.</td>
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<td></td>
<td>Hard brown shale.</td>
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<td></td>
<td>Firm soft medium gray sand.</td>
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<td></td>
<td></td>
<td></td>
<td>Hard brown shale. Dip of 20°</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Firm soft medium to coarse gray sand.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Hard brown silty shale. Partings have dip of 22° to 28°. Streak of gray sand.</td>
</tr>
<tr>
<td>Date</td>
<td>Plate</td>
<td>Depth</td>
<td>Shale</td>
<td>O. S.</td>
</tr>
<tr>
<td>-------</td>
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</tr>
<tr>
<td>10-14</td>
<td>5</td>
<td>7-5/8</td>
<td>4073</td>
<td>4092</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Hard dark brown shale</td>
<td>Firm soft medium gray sand</td>
</tr>
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<td></td>
<td>0.2</td>
<td>0.7</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Firm soft fine to medium gray sand</td>
<td>Hard dark brown shale</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.4</td>
<td>1.9</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Hard sandy dark brown shale</td>
<td>Firm soft medium gray sand</td>
</tr>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Hard brownish black shale, slightly sandy shale, Laminated with partings of gray sand 0.6 from bottom, Streak of brown oil sand on bottom. Dip of 22°</td>
<td>Firm, soft fine to medium dark brown oil sand. Strong odor and dark amber cut.</td>
</tr>
<tr>
<td>10-14</td>
<td>6</td>
<td>7-5/8</td>
<td>4092</td>
<td>4110</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Hard, brownish black shale</td>
<td>Firm, soft, fine to medium dark brown oil sand.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.4</td>
<td>0.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Firm, soft, fine to medium dark brown oil sand</td>
<td>Hard brownish black shale.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.6</td>
<td>0.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fine to medium dark brown oil sand</td>
<td>Hard, brown shale.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.2</td>
<td>0.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Firm, soft, fine to medium dark brown oil sand</td>
<td>Hard, brownish, black shale.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.3</td>
<td>0.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Firm, soft, fine dark gray sand. No odor and no cut.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3.6</td>
<td>1.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Hard, black to brownish shale.</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>0.5</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Firm, soft, fine dark brown oil sand. S. streaks of mud.</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>6.6</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Hard brownish black shale. Firm soft fine to medium dark brown oil sand. Strong odor.</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>0.4</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Hard, brownish black massive shale.</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>0.9</td>
<td></td>
</tr>
</tbody>
</table>

For 10-14 6, 7-5/8, 4092, 4110, 18.5, 0.7, firm, soft, fine to medium dark brown oil sand, Strong odor and dark amber cut. Good flash. Hard, brownish black shale, partings of fine, brown oil sand. Firm, soft, fine to medium dark brown oil sand - strong odor.
LONG BEACH

UNION OIL

OIL OPERATORS

Gy

Sh. 0.2 Sd Shell

337

0-21 7 7-5/8 4110 4125 10.4 5.9

soft, loose, fine dark brown oil sand. Good odor and dark amber cut. Core has strong flash test.

Hard, grayish brown slightly calcareous bentonitic shale. This shale differs from the others and may be a marker.

Soft, loose, fine dark brown oil sand. Hard, brownish black shale.

Firm, soft, fine to medium dark brown oil sand. Strong odor with strong flash. Streak of shale 0.4 from bottom

0-21 8 7-5/8 4125 4140 12.8 0.4

0.1

0.3

0.1

4.0

0.2 10.2

0.1

0.6

0.3

4.2

0.1

4.4

0.3

2.4

0.8 12.0

0.2

0.3

4.1

0.1

6.1

0.1 13.4 0.4

Firm, soft, fine to medium dark brown oil sand.

Hard, slightly calcareous shale shell. Firm, soft, fine to medium dark brown oil sand. Strong odor and dark amber cut.

Hard, slightly calcareous shale shell. Firm, soft, fine to medium dark brown oil sand. Strong odor and dark amber cut. Sand looks good. 0.1 of brown shale 0.3 from bottom.

0.1

0.3

4.1

0.1

Henry E. Winter
629 South Hill Street  
Los Angeles, California  
November 11, 1937.

Union Oil Company of California,  
Union Oil Building,  
Los Angeles, Calif.

Gentlemen:  
Attention Mr. W. S. Eggleston

In accordance with recent conversation between your office and Engineer Crow of this office, we are correcting your notice of intention to drill, dated August 9, 1937, and the following reports issued by this office, to show the correct designation of the well as "Oil Operators" 1 (instead of "Oil Operators, Inc." 1), Sec. 13, T. 4 S., R. 13 W., S. B. E. & M., Long Beach field:

Nos. P 1-31200; T 1-33187; T 1-33264, and T 1-33300.

Please correct your copies accordingly.

Yours truly,

[Signature]

Deputy Supervisor.
Report on Test of Water Shut-off

No. T. 1-33300

Los Angeles, Calif. November 5, 1937.

Mr. Ed. Juszen, Jr.,

Los Angeles, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

DEAR SIR:

Your well No. "OIL OPERATORS, INC." No. 13, T. 4 S., R. 13 W., S. B. B. & M., Long Beach Field, in Los Angeles County, was tested for shut-off of water on October 20, 1937, Mr. E. B. Murray-Aaron, designated by the supervisor, was present as prescribed in Section 19, Chapter 718, Statutes 1915, as amended, and there were also present J. R. Keewis, Drilling Foreman, and S. Hagestad and R. Rampton, Engineers.

Location of water tested above 4105' and normal fluid level not reported.

Depth and manner of water shut-off: 4105 ft. of 8-5/8 in. lb. in casing 10-15-37 cemented in shale formation at 4105 ft. with 400 sacks Victor cement by casing method.

Water string was landed in 12 1/4" rotary hole.

Casing record of well 13-3/8 cem. 757 ft. 8-5/8" as above.

Reported total depth of hole 4110 ft. Hole bridged from xx ft. to xx ft. Hole cleaned out to 4110 ft. for this test.

At time of test depth of hole measured xx ft. and bailer brought up sample of xx xx.

At xx Time and date oil bailed to xx ft., drilling fluid bailed to xx ft.

At xx Time and date top of oil found at xx ft., top of fluid found at xx ft.

MR. HAGESTAD REPORTED THE FOLLOWING:

1. No casing test was made.

2. 21' of set cement was drilled out of the 8-5/8" casing (equivalent to 6 sacks).

3. The Johnson tester was run into the hole on 4" drill pipe.

4. The wall packer was set at 4086'.

THE INSPECTOR NOTED THE FOLLOWING:

1. The tester valve was opened at 10:48 a.m. and remained open for 30 minutes. During this interval there was a strong, steady blow for the entire test period, gas reached the surface in 3 minutes.

2. The fluid between the drill pipe and the 8-5/8" casing remained stationary during the time that the valve was open.

3. When the drill pipe was removed 90' of oily, gassy mud fluid and 1910' of oil was found in the drill pipe above the tester, equivalent to 1.3 and 27.4 bbl, respectively.

4. The pressure bomb chart showed that the tester valve was open for 30 minutes. The test was completed at 1:30 p.m.

THE SHUT-OFF IS APPROVED.

R. D. BUSH
State Oil and Gas Supervisor

By

cc: K. E. Winter
Long Beach
ERMA: OH
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS
Special Report on Operations Witnessed

No. T. 1-33264

Los Angeles, Calif. October 29, 1937

Mr. Ed Jensen, Jr.
Los Angeles, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

Dear Sir:

"OIL OPERATORS, INC."

Operations at your well No. 1 Sec. 13, T. 48 S., R. 13 W., S. E. B. & M.,

Long Beach Field, in Los Angeles County, were witnessed by

O. Peirce

on Oct. 15, 1937. There was also present H. E. Winter, Engineer,

and E. W. Messer, Driller.

Casing Record 13-3/8" com. 757', T. D. 4110'.

Junk None.

The operations were performed for the purpose of demonstrating that the formations between 757' and 4106' were mudded until the loss was not more than 5 bbl. per hr.,

and the data and conclusions are as follows:

MR. WINTER REPORTED THE FOLLOWING:

1. A 12 1/4" rotary hole was drilled from 757' to 4106' and a 7-5/8" rotary hole was drilled from 4106' to 4110'.

2. Mud fluid was circulated for 2 hr. prior to the test.

3. No record was kept of the loss of mud fluid prior to the test.

4. The drill pipe was hanging at 4070' during the test.

5. Cores were taken from the following important depths:

4070' - 4080' -- gray sand
4010' - 4040' -- shell
4050' - 4070' -- gray sand
4071' - 4079' -- shale
4079' - 4092' -- gray sand
4092' - 4106' -- shale
4106' - 4110' -- oil sand

THE ENGINEER NOTED THAT during a circulation test from 10:30 a.m. to 11:00 a.m. mud fluid was lost from the pit at the rate of 3 bbl. per hr.

THE MUDDING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED.

Oral approval given to cement 8-5/8" casing at 4106' is hereby confirmed.

cc: H. E. Winter

R. D. BUSH
State Oil and Gas Supervisor

By /s/ Deputy
629 South Hill Street
Los Angeles, California
October 8, 1937.

Union Oil Company of California,
Santa Fe Springs, Calif.

Gentlemen: Attention Mr. H. E. Winter.

This will acknowledge receipt of and thank you for your letter of October 7, 1937, giving the elevation of your well No. "Oil Operators, Inc." 1, Sec. 13, T. 4 S., R. 13 W., S. B. & M., Long Beach field, as 56.34 feet, U. S. G. S.

Our records have been corrected accordingly.

Yours truly,

B:EMS

Deputy Supervisor.

CC - Mr. E. D. Bush (2)
Long Beach
Mr. R. Huguenin,  
Deputy Supervisor,  
Division of Oil & Gas,  
Los Angeles, Calif.

Dear Sir:

The elevation of the Union Oil Company well "Oil Operators, Inc. #1" in the Long Beach Field (Sec. 13-4S-13W), is 56.84 ft., U.S.G.S.

Our records have been corrected accordingly.

Very truly yours,

[Signature]

District Engineer.
DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T1-33187

Los Angeles, Calif. October 22, 1937

Mr. Ed Jussen, Jr.,
Los Angeles, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

Dear Sir:

Operations at your well No. 1, Sec. 13, T. 48, R. 13W, S. B. & M., Long Beach Field, in Los Angeles County, were witnessed by C. Peltre, representative of the supervisor, on Oct. 3, 1937. There was also present R. Hampton, Engineer, and C. Bussert, Driller.

Casing Record

13-3/8" cam. 757'. T.D. 757'.

Junk

The operations were performed for the purpose of demonstrating that the known surface waters are adequately protected.

and the data and conclusions are as follows:

THE ENGINEER ARRIVED AT THE WELL AT 3:30 P.M. AND MR. HAMPTON REPORTED THE FOLLOWING:
1. A 17" rotary hole was drilled from the surface to 757'.
2. 763' of 13-3/8" - 45.97 lb. casing was run into the hole to 757'.

THE ENGINEER NOTED THE FOLLOWING:
1. The 13-3/8" casing was cemented at the reported depth of 757' with 350 sacks of Velo cement.
2. The cement was displaced with 662 cubic feet of drilling fluid under a final pressure of 100 lb.
The test was completed at 4:30 p.m.

THE CEMENTING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED AS INDICATING THAT THE known surface waters are adequately protected.

cc- H. E. Winter
Long Beach

R. D. BUSH
State Oil and Gas Supervisor

By [Signature] Deputy
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P 1-31200

Los Angeles, Calif. August 16, 1937

Mr. Ed Jussen, Jr.,
Los Angeles, Calif.

Dear Sir:

Your proposal to drill Well No. 'OIL OPERATORS, INC.' 1 in Section 13, T. 45S., R. 15W., S. B. & M., Long Beach Field, Los Angeles County, dated Aug. 9, 1937, received Aug. 11, 1937, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

* 56.84' U. S. G. S. (Correction letter 10-2-37)

THE NOTICE STATES:
The well is 555' S-W'ly along the prolongation of the center line of the W'ly portion of San Antonio Drive from the center line of Del Mar Ave., thence 100' N-W'ly at right angles.
The elevation of the derrick floor above sea level will be determined later (approx. -50').

We estimate that the first productive oil or gas sand should be encountered at a depth of about __ feet, more or less."

PROPOSAL:

We propose to use the following strings of casing, either cementing or landing them as herein indicated: Size of Casing Weight New or Second Hand Depth Landed or Cemented

13-3/8" 46 New 700 Cmtd.
8-5/8" 36 New 4100 Cmtd.
8-5/8" Perf., liner 28 New 4150 Landed

Well is to be drilled with rotary tools.

It is understood that if changes in this plan become necessary we are to notify you before cementing or landing casing."

DECISION:

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. (a) Mud fluid of not less than 70 lb. per cubic foot shall be used in the drilling of the well and the column of mud fluid shall be maintained at all times to the surface, particularly while pulling the drill pipe.

   (b) Adequate blow-out prevention equipment shall be provided and ready for operation at all times.

2. Any hole to be sidetracked at any time during the drilling of this well shall be completely filled with cement.

3. The formations to be left back of the 8-5/8" casing shall be mudded by open circulation until the loss is not more than 5 bbl. per hr.

4. THIS DIVISION SHALL BE NOTIFIED TO WITNESS:

   (a) The cementing of the 13-3/8" surface casing.

   (b) Final mudding operations before cementing the 8-5/8" casing.

   (c) A test of the effectiveness of the 8-5/8" shut-off.

cc: H. E. Winter
Long Beach
WJC:G

R. D. BUSH
State Oil and Gas Supervisor

By [Signature] Deputy
Notice of Intention to Drill New Well
This notice must be given before drilling begins

General Exploration Co.  
SANTA FE SPRINGS  
Cal.  
AUGUST 9, 1937  

Mr. E. HUGURIIN  
Deputy State Oil and Gas Supervisor  
Los Angeles, Calif.  
Cal.

Dear Sir:

In compliance with Section 17, Chapter 718, Statutes of 1915, as amended, notice is hereby given that it is our intention to commence the work of drilling well No. [Oil Operators, Inc. #1], Sec. 13, T. 4-S, R. 13-W, S.B., B. & M., Long Beach Oil Field, Los Angeles County.

Lease consists of 550' S-Wly along the prolongation of the center line of the W'ly portion of San Antonio, Drive from the center line of Del Mar Ave., thence 100' N-Wly at right angles will be determined later (Approx. 60').

We propose to use the following strings of casing, either cementing or landing them as herein indicated:

<table>
<thead>
<tr>
<th>Size of Casing, Inches</th>
<th>Weight, Lb. Per Foot</th>
<th>New or Second Hand</th>
<th>Depth</th>
<th>Landed or Cemented</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-3/8&quot;</td>
<td>46</td>
<td>New</td>
<td>700</td>
<td>Cntd.</td>
</tr>
<tr>
<td>8-5/8&quot;</td>
<td>36</td>
<td>New</td>
<td>4100</td>
<td>Cntd.</td>
</tr>
<tr>
<td>6-5/8&quot; Perf. liner</td>
<td>26</td>
<td>New</td>
<td>4150</td>
<td>Landed</td>
</tr>
</tbody>
</table>

Well is to be drilled with rotary tools.

It is understood that if changes in this plan become necessary we are to notify you before cementing or landing casing.

We estimate that the first productive oil or gas sand should be encountered at a depth of about __________ feet, more or less.

Respectfully yours

Address  
Santa Fe Springs, Calif.  

Telephone number  
Whittier 426-97  

[Signature] 
By  
District Engineer.
Pacific Energy Resources Ltd.

"Oil Operators" 1

Sec. 13-48-13W.

Casing shoe depth: 757 ft. Started run 5:45 p.m.

Driller

757 ft. Finished run 8:00 p.m.

Sclumberger

Bottom Depth: 4041 ft. Time well occupied by outfit 2 1/2 h.

Driller

4043 ft. Time waiting at well 0:45 h.

Max. depth reached by lower elect

3286 ft. Mileage incurred by run 15 M.

Max. footage measured (por S.P.)

--- ft. Total time incurred by run 4 h.

Footage missed

MUD CHARACTERISTICS

NATURE: natural

VISCOITY: 34

DENSITY: 73

LEVEL:

RESISTIVITY: 10.5

DIAMETER OF HOLE

12 1/2" to 4000 ft.

7 5/8" to 4041 ft.

REMARKS

Device: 20"

Witnessed By: Mr. Winter

OBSERVERS: J. WAlSTROM

DEPTH

RESISTIVITY LOG ohms. m² m

POROSITY LOG millivolts

0

-- 30 150 mV --

---150 mV-----
Pacific Energy Resources Ltd.

WELL: Oil Operators #1
RUN NO: Second
ELEVATION: 6013 ft
FIELD: Long Beach
COUNTY: Los Angeles
STATE: California

Casing shoe depth: Driller 4105 ft. Started run 4:15 p.m.
Bottom Depth: Schlumberger 4532 ft. Finished run 5:45 p.m.
Max. depth reached by lower elect 4532 ft. Time well occupied by outfit 12 h.
Footage measured 1 ft. Time waiting at well 3 h.
Footage missed 427 ft. Mileage incurred by run 10 M.

DIAMETER OF HOLE
from...to... 4532 ft. 7-5/8" Nature: Natural
MUD CHARACTERISTICS
from...to...
from...to...
Bottom Temperature 126°F Weight: 72
Viscosity: 500 cc Marsh Funnel 32
Resistivity: 8.9 @ 0°F

REMARKS

Device: Long

Note: 60 Ohms scale attached at bottom

Depth measurements taken from: Top of rotary table
Maximum Pull 1800 lbs. at 4532 ft.
Witnessed By: Mr. Winter

DATE: August 13, 1939 OBSERVERS V. T. FANT

RESISTIVITY

SELF-POTENTIAL
# REPORT OF PROPERTY AND WELL TRANSFER

**Field or county**
Wilmington, Long Beach, Montebello, Rosecrans, Rosecrans East, Torrance, and Newport West.

**Former owner**
Pacific Energy Resources

**Operator code**
P0250

**Date**
7/10/2007

**Name and location of well(s)**
See Attachment

**Description of the land upon which the well(s) is (are) located**
See Attachment

## Date of transfer, sale, assignment, conveyance, or exchange
06/14/2007

## New owner
Pacific Energy Resources Ltd.

## Address
111 West Ocean Blvd
Long Beach, CA 90802

## Operator code
P0250

## Type of organization
Partnership

## Telephone No.
(562) 628-1526

**Reported by**
OG30A Both Signed

**Confirmed by**

**New operator new status (status abbreviation)**
PA

**Request designation of agent**
Darren Katic, Agent

**Old operator new status (status abbreviation)**
NPI

**Remarks**
See Operator File

---

## OPERATOR STATUS ABBREVIATIONS

<table>
<thead>
<tr>
<th>PA – Producing Active</th>
<th>NPA – No Potential, Active</th>
<th>PI – Potential Inactive</th>
<th>NPI – No Potential, Inactive</th>
<th>Ab – Abandoned or No More Wells</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form or record</td>
<td>Initials</td>
<td>Date</td>
<td>Form or record</td>
<td>Initials</td>
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<tr>
<td>Form OGD121</td>
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<td>EDP files</td>
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<td>Computer Files</td>
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<td>Production reports</td>
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**FORM AND RECORD CHECK LIST**

<table>
<thead>
<tr>
<th>Map and book</th>
<th>Notice to be cancelled</th>
<th>Bond status</th>
<th>EDP files</th>
<th>Computer Files</th>
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<tbody>
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<td>7/11/07</td>
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<td>7/11/07</td>
<td>7/11/07</td>
</tr>
</tbody>
</table>

**Deputy Supervisor**
R.K. Baker

**Signature**
Ken Carlson
Associate Engineer

**OGD156 (5/98)**
WELL TRANSFER NOTICE

EFFEC MAY 9, 1994, PETRO RESOURCES, INC.
TRANS LONG BEACH NWLBU WELLS
TO PACIFIC ENERGY CORP.
SEE OGD156 DATED 5-13-94
REPORT OF WELL PLUGGING AND ABANDONMENT

Long Beach, California
March 9, 1993

Joe D. Rose, Agent
PETRO RESOURCES, INC.
4200 Easton Dr., Suite 16
BAKERSFIELD CA 93309

Your report of the plugging and abandonment of well NWLBU 8-1, A.P.I. No. 037-09792, Section 13, T. 4S, R. 13W, S.B. B.& M., Long Beach Field, Los Angeles County, dated 10-6-92, received 10-7-92, has been examined in conjunction with operations witnessed and records filed in this office. We have determined that all of the requirements of this Division have been fulfilled.

NOTE: Surface plugging completed on 7-3-92.

William F. Guerard, Jr.
Acting State Oil and Gas Supervisor

By _____________
For R. K. Baker, Deputy Supervisor

KMCdf

cc: Update
Conservation Committee
L.A. County Assessor
L.A. County Fire Prevention Bureau
Don Callow, City of Signal Hill
DIVISION OF OIL AND GAS

CHECK - RECORDS RECEIVED AND WELL

Company: *Peto Resources, Inc.*

Well No.: *KAD661 E-1*

API No.: 09-09792
Sec.: 13, T.: 45, R.: 150, S.: B.M.

County: *Los Angeles*
Field: *Long Beach*

**RECORDS RECEIVED**

<table>
<thead>
<tr>
<th>RECORDS RECEIVED</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Summary (Form OG100)</td>
<td>10/7/92</td>
</tr>
<tr>
<td>History (Form OG103)</td>
<td>10/7/92 (2d)</td>
</tr>
<tr>
<td>Core Record (Form OG101)</td>
<td></td>
</tr>
<tr>
<td>Directional Survey</td>
<td></td>
</tr>
<tr>
<td>Sidewall Samples</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>Date final records received</td>
<td></td>
</tr>
<tr>
<td>Electric logs:</td>
<td></td>
</tr>
</tbody>
</table>

**ENGINEER'S CHECK LIST**

1. Summary, History, &
   Core record (dupl.)
2. Electric Log
3. Operator's Name
4. Signature
5. Well Designation
6. Location
7. Elevation
8. Notices
9. "T" Reports
10. Casing Record
11. Plugs
12. Surface Inspection
13. Production
14. E Well on Prod., enter EDP
15. Directional Survey

**STATUS**

- Producing - Oil
- Idle - Oil
- Abandoned - Oil
- Drilling - Idle
- Abandoned - Dry Hole
- Producing - Gas
- Idle - Gas
- Abandoned - Gas
- Gas-Open to Oil Zone
- Gas Storage

**DATES:**

- Water Disposal
- Waterfill
- Sea flood
- Fire Flood
- Air Injection
- Gas injection
- CO2 Injection
- LPG Injection
- Observation

**REMARKS**

- "E" well
- No

**CLERICAL CHECK LIST**

1. Location change (F-OGD165)
2. Elevation change (F-OGD165)
3. Form OGDL21
4. Form OG159 (Final Letter)
5. Form OGDL50b (Release of Bond)
6. Duplicate logs to archives
7. Notice of Records due (F-OGD170)
8. EDP (F-OGD42A-1, 2)

**UPDATE CENTER:** 3-22-93

**RECORDS APPROVED:** 2/11/93

**RELEASE BOND**

Date Eligible

(Use date last needed records were received.)

**MAP AND MAP BOOK**

3-8-93

**LONG BEACH OFFICE - USE REVERSE SIDE**
SUBMIT IN DUPLICATE
RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Petro Resources, Inc.  Field Long Beach  County Los Angeles
Well NWLB .8-1  Sec. 13, T 4S, R 13W, S.B.B. & M.
A.P.I. No. 037-09722  Name Joe D. Rose  Title Manager
Date Oct. 6, 1992  (Person submitting report)

4200 Easton #16, Bakersfield, Ca. 93309  (Address)  (805)323-4118 or 323-6922  (Telephone Number)

Signature

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date

1/31/84  Ran 3-3/4" bailor to 518'. Bailed pieces of wood. Ran 6-3/4" bit.

2/3/84-  Drill and mill wood and steel to 558'. Ran I.B., appears to be angle iron in hole.
2/6/84  (Mill worn down on outside 6" diameter).

6/2/92  MIRU Finley Oilwell Service.
6/3/92  7" I.B. to 551'. Mark on outside of 7". Ran in sawtooth on 2-7/8" to 551'. Ran
1-1/4" tubing to 551'. No go.

6/4/92  Pickup power swivel, spools for wellhead etc. Short day.
6/5/92  Ran 7-3/8" shoe and 1 ft. washover pipe. Wash 551-554'. Pull @ 25,000# to free string.
No fish. 2' worn imprint inside shoe.
6/8/92  Ran 7" shoe with skirt drill 551-555'. Torque up, pull 32,000#, slipped off. Ran again
to 554', won't go. Torqued up.

6/9/92  Ran 7-3/8" x 6-5/8" ID diamond friction shoe -- no catch. Diamond friction springs
flattened. Ran 7-5/8" bit drill hard, torquing, getting wood and metal. Drill to 555'.

fragments, etc. Ran 4-5/8" mill, mill to 558'. Ran I.B. - indeterminate.

6/12/92  Ran 4-1/2" washover shoe, c.o.o to 564'. POOH, recover 6' - 3-1/2" OD metal tube split
and twisted w/ID of interior full of redwood pieces and splinters. Ran again, wouldn't go.
Blanks off like we inside of a core inside of wood.

6/15/92  Ran 4-9/16" junk mill, c.o.o to 573'. Lots of wood and some metal shavings. Ran 7-5/8"
2 cone bit, c.o.o to 575'. Wood and metal.
6/16/92  Ran 2 prong spear. Recover 3' of 1" drilling line. Re-run. Recover misc. wire pieces,
metal and wood. Ran magnet, a gallon of pieces of metal.

6/17/92  Load out tools. Rig up 10-900 double gate BOP. Shoot 8- 1/2" holes 578-70'. RIH
with Baker permanent cement retainer set at 537'. Pump away at 0-200 psi.

6/18/92  Pump 250 sx. cmtr. through retainer and out perfs. Open valve between 8-5/8" and 13-3/8"
casing and circulate. Spot 273 sx - pull out of the retainer and circulate 162 sx.
inside 8-5/8" casing, filling the 8-5/8" from 578' to surface, and 250 sx. of cement
pumped away down from 578' on the outside of the 8-5/8" casing. Total 685 sx. cement.

7/3/92  Cut off casing 8' below ground level and welded on metal cap. Both strings observed
to be full of cement.

OG103 (11/80/DWRR/15M)
Report on Operations

Joe D. Rose, Agent
PETRO RESOURCES, INC.
4200 Easton Dr., Suite 16
BAKERSFIELD CA 93309

Long Beach Calif.
July 13, 1992

Your operations at well NWLDU 8-1, API No. 037-09792, Sec. 13, T. 4S, R. 13W, S.B. B & M. Long Beach Field, in Los Angeles County, were witnessed on 7-3-92 by J. Hebein, Engineer, representative of the supervisor, was present from 1400 to 1405. There were also present Dave Dahlman,

Present condition of well: 13 3/8" cem 757', 8 5/8" cem 4105', cp 570', 6 5/8" ld 4024'-4529', cp 4475'. Junk below 580'. TD 4532'. Bp 4200'. Plugged w/cem 4529'-4443', 4200'-4124', w/523 sx cem below 535' & w/cem 535'-8'.

The operations were performed for the purpose of witnessing the plugging operations in the process of abandonment.

DECISION:

APPROVED.

NOTE: The required Class II2M blowout prevention equipment was inspected and approved on 6-18-92.

DEFICIENCIES: None.

CONTRACTOR: Finley Oil Well Service, Inc.

Surface Inspection Approved 7-14-92

cc: Update
    Callow, Signal Hill

K. P. Henderson, Acting Chief
State Oil and Gas Supervisor

By R. K. Baker
Deputy Supervisor
for
DIVISION OF OIL AND GAS
Cementing/Plugging Memo

Operator: Petro Resources, Inc.  
Well No.: NL9BU 8-1
API No.: 037-09792  
Field: Long Beach, County: Los Angeles  
On: 7/13/92
Mr. / Mrs. J. Hebein, representative of the supervisor, was present from 4:00 to 4:05.
There were also present: Dave Dahlman, Pacific Energy Resources

Casing record of well:  
13' casing 757', 8-5/8' casing 4105', cp 570', 6-9/16' id 4024 - 4529', cp 4475', Junk below 580, TD 4532', Bhp 4200, Plugged with 4529' - 4443', 4200' - 4124', 1523X 6' cement below 585, + 10' cement 535 - 8'.

The operations were performed for the purpose of:

☐ The plugging/cementing operations as witnessed and reported are approved.
☐ The location and hardness of the cement plug @ _________' is approved.

Hole size: ______' fr. ______' to ______', ______' to ______' & ______' to ______'

<table>
<thead>
<tr>
<th>Casing</th>
<th>Cemented</th>
<th>Top of Fill</th>
<th>Squeezed Away</th>
<th>Final Press. Perfs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>Wt. Top</td>
<td>Bottom Date</td>
<td>MO-Depth Volume</td>
<td>Annulus Casing</td>
</tr>
</tbody>
</table>

Bld 264' m @ 200 psi.

Casing/tubing recovered: ______' shot/cut at ______', ______', ______' pulled fr. ______';  
______' shot/cut at ______', ______', ______' pulled fr. ______'.

Junk (in hole): below 580

Hole fluid (bailed to) at ______'. Witnessed by:

Mudding  
Date  Bbls.  Displaced  Poured  Fill  Engr.

NOTE (K) H2M 6/18/92

Cement Plugs

<table>
<thead>
<tr>
<th>Date</th>
<th>Sx./cf</th>
<th>MO &amp; Depth</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6/18/92</td>
<td>162 5x</td>
<td>Ret. c @ 535'</td>
<td>0900</td>
<td>M. Saw</td>
<td>8'</td>
</tr>
</tbody>
</table>

OOG10 (9/91/GSR1/SM)
DEFICIENCIES NOTED AND CORRECTED:

None

DEFICIENCIES NOTED AND TO BE CORRECTED:

None

UNCORRECTABLE DEFICIENCIES:

None

CONTRACTOR:

Finlay Oil Well Service, Inc.
**DIVISION OF OIL AND GAS**

**BLOWOUT PREVENTION EQUIPMENT MEMO**

**Operator**: Retro Resources, Inc.  
**Well**: NWLB1 8-1

**Field**: Long Beach  
**County**: LA  
**Spud Date**:

**VISITS:**
1st Date: 6/18/99  
Engineer: McEwan  
Time: 0830 to 0900  
Operator's Rep.: J. Moyers  
Title: R.A.

2nd  
Contractor:  
Rig #:  
Contractor's Rep. & Title:

Casing record of well:

---

**OPERATION:** Testing (inspecting) the blowout prevention equipment and installation.

**DECISION:** The blowout prevention equipment and its installation on the _____ casing are approved.

**Proposed Well Ops:** Abandon  
**MACP:** _______ psi

**REQUIRED**

**BOPE CLASS:** II D > M

---

**CASING RECORD OF BOPE ANCHOR STRING**

<table>
<thead>
<tr>
<th>Size</th>
<th>Weight(s)</th>
<th>Grade(s)</th>
<th>Shoe at</th>
<th>CP at</th>
</tr>
</thead>
</table>

---

**BOP STACK**

<table>
<thead>
<tr>
<th>API Symb</th>
<th>Ram Size (in.)</th>
<th>Manufacturer</th>
<th>Model or Type</th>
<th>Vert. Bore Size (in.)</th>
<th>Press. Rtg.</th>
<th>Date Last Overhaul</th>
<th>Gal. to Close</th>
<th>Recovery Time (Min.)</th>
<th>Calc. GPM Output</th>
<th>psi Drop to Close</th>
<th>Secs. to Close</th>
<th>Test Date</th>
<th>Test Press.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**TEST DATA**

<table>
<thead>
<tr>
<th></th>
<th>Cement Details</th>
<th>Top of Cement</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOP STACK</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**ACTUATING SYSTEM**

**Accumulator Unit(s) Working Pressure** _______ psi

**Total Rated Pump Output** _______ gpm

**Distance From Well Bore** _______ ft.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Precharge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accum. Manufacturer</td>
<td>Capacity</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>gal.</td>
<td>psi</td>
</tr>
<tr>
<td>2</td>
<td>gal.</td>
<td>psi</td>
</tr>
</tbody>
</table>

---

**CONTROL STATIONS**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Manifold at accumulator unit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote at Driller's station</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other:</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**EMERG. BACKUP SYSTEM**

<table>
<thead>
<tr>
<th></th>
<th>Press.</th>
<th>Wkg. Fluid</th>
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</thead>
<tbody>
<tr>
<td>N₂ Cylinders</td>
<td>1 L=</td>
<td>gal.</td>
</tr>
<tr>
<td>Other:</td>
<td>2 L=</td>
<td>gal.</td>
</tr>
<tr>
<td></td>
<td>3 L=</td>
<td>gal.</td>
</tr>
<tr>
<td></td>
<td>4 L=</td>
<td>gal.</td>
</tr>
<tr>
<td></td>
<td>5 L=</td>
<td>gal.</td>
</tr>
<tr>
<td></td>
<td>6 L=</td>
<td>gal.</td>
</tr>
<tr>
<td>TOTAL:</td>
<td></td>
<td>gal.</td>
</tr>
</tbody>
</table>

---

**HOLE FLUID MONITORING EQUIPMENT**

<table>
<thead>
<tr>
<th></th>
<th>Alarm Type</th>
<th>Audible</th>
<th>Visual</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calibrated Mud Pit</td>
<td></td>
<td>A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pit Level Indicator</td>
<td></td>
<td></td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>Pump Stroke Counter</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pit Level Recorder</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flow Sensor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mud Totalizer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calibrated Trip Tank</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**HOLE FLUID Type**

<table>
<thead>
<tr>
<th>Hole Fluid Type</th>
<th>Weight</th>
<th>Storage Pits (Type &amp; Size)</th>
</tr>
</thead>
</table>

---

**REMARKS AND DEFICIENCIES:**
PERMIT TO CONDUCT WELL OPERATIONS

Joe D. Rose
PETRO RESOURCES, INC.
4200 Easton Dr., Suite 16
BAKERSFIELD CA 93309

Long Beach, California
June 16, 1992

Your proposal to abandon well NWLBUs 8-1,
A.P.I. No. 037-09792, Section 13, T. 4S, R. 13W, S.B. 8.A.W.,
Wilmington field, Northwest Extension area, 
Los Angeles County, dated 6-12-92, received 6-15-92, has been examined in conjunction with records
filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:
1. Blowout prevention equipment, equivalent to this division's Class II2M requirements, or better, shall be installed and maintained in operating condition.
2. All portions of the hole not plugged with cement shall be filled with clay base mud having a minimum density of 72 lb/cu ft and a minimum gel-shear strength of 25 lb/100 sq ft.
3. This division shall be consulted and a Supplementary Notice may be required before making any changes in the proposed program.
4. THIS DIVISION SHALL BE NOTIFIED TO:
   a. Witness the clean-out depth.
   b. Witness the placing, location and hardness of the cement plug from 550' to 5' inside and outside the 8 5/8'' casing.
   c. Inspect and approve the cleanup of the well site.

NOTES:
1. A crew drill may be required at the time of the blowout prevention equipment inspection.
2. The proposed surface plug shall not contain rock or gravel.
3. The base of the freshwater sands is at 2100'.
4. Report on Operations (OG 109) (T-Report) and Report of Well Abandonment (OG 159) will not be released until all records and histories are on file with this Division.
5. This Division does not recommend building over or in proximity of this well.

KMC:ss

cc: Update
   Don C. Callow, City of Signal Hill

BLANKET BOND

Engineer    Kenneth M. Carlson
Phone        (310) 590-5311

K.P. Henderson, Acting Chief
By
For R.K. Baker, Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

00111
DIVISION OF OIL AND GAS

Notice of Intention to Abandon Well
This notice must be given at least five days before work is to begin.

DIVISION OF OIL AND GAS

In compliance with Section 3229, Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon Well No. NWLB 8-1, API No. 037-09792, Sec. 13, T. 48 S., R. 13 W., S.B. B. & M., Long Beach Field, Los Angeles County, commencing work on June 15, 1992.

The present condition of the well is:

1. Total depth: 4532', junk @ 551'
2. Complete casing record, including plugs and perforations:
   13-3/8" csg. cmted. @ 757'
   8-5/8" csg. cmted. @ 4105'
   6-5/8" 4024-4529', cp @ 4475'.
   PB 4520-4443', BP @ 4100'. Cmt. plug 4200-4124'.

3. Last produced
   (Date) (Oil, B/D) (Gas, Mcf/D) (Water, B/D)
   or
4. Last injected
   (Date) (Water, B/D) (Gas, Mcf/D) (Surface pressure)

The proposed work is as follows:

1. Perforate 8 - 1/2" holes at 550'.
2. Set cement retainer at 500', squeeze 250 sxs. through retainer to squeeze below shoe of 13-3/8" surface casing.
4. Cut off casing strings 6' below ground level and level site.

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address: 4200 Easton #16
Bakersfield, CA 93309

Telephone Number: (805) 323-4118

Petro Resources, Inc.

By: [Signature] Name Rose
(Date) 6-12-92

Type of Organization: Corporation

FOR DIVISION USE ONLY

CARDS bond 114 121

Address: 4200 Easton #16
Bakersfield, CA 93309

Telephone Number: (805) 323-4118

Petro Resources, Inc.

By: [Signature] Name Rose
(Date) 6-12-92

Type of Organization: Corporation

FOR DIVISION USE ONLY

CARDS bond 114 121
FROM

VERN

REPRESENTING

DATE
6/16
TIME
11:45
PHONE
(310) 595-4505

TO

Ken

MESSAGE/REMARKS
Did you fax the memo yet?

STATE OF CALIFORNIA
MESSAGE
STG 7 (REV 1/90)

LONG BEACH, CA
DIVISION OF OIL & GAS
92 JUN 15 PH: 1:35
RECEIVED
DIVISION OF OIL AND GAS

Notice of Intention to Abandon Well
This notice must be given at least five days before work is to begin.

DIVISION OF OIL AND GAS

In compliance with Section 3229, Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon Well No. NWLBU 8-1, API No. 037-09792, Sec. 13, T. 4S., R. 13W., S. E. B. & M., Long Beach Field, Los Angeles County, commencing work on June 15, 1992.

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   8-5/8" csg. cmtd. @ 4105'
   6-5/8" 4024-4529', cp @ 4475'.
   PB 4520-4443', BP @ 4200'. Cmt. plug 4200-4124'.

3. Last produced
   
<table>
<thead>
<tr>
<th>Date</th>
<th>Oil, B/D</th>
<th>Gas, Mcf/D</th>
<th>Water, B/D</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
   or

4. Last injected
   
<table>
<thead>
<tr>
<th>Date</th>
<th>Water, B/D</th>
<th>Gas, Mcf/D</th>
<th>Surface pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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</table>

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1. Perforate 8 - 1/2" holes at 550'.
2. Set cement retainer at 500', squeeze 250 sxs. through retainer to squeeze below shoe of 13-3/8" surface casing.
4. Cut off casing strings 6" below ground level and level site.

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address 4200 Easton #16
Bakersfield, CA 93309

Telephone Number (805) 323-4118

Petro Resources, Inc.

By Joe Rose
6-12-92

Type of Organization Corporation

Form 108 (REV. 1-79)
PETRO RESOURCES INC

Facsimile Transmission Cover Sheet

---

-To: KEN CARLSON  DIVISION OF O&G

Receiving FAX telephone: 310/590/5301

1 more page follows this cover page

Sent by:

JOE ROSE

PETRO RESOURCES INC
4200 EASTON DR #16
BAKERSFIELD, CA 93309

FAX Telephone: 805/323/8567
Voice Telephone: 805/323/4118

In case of trouble, contact: 805 323 4118

Sent on 06-12-1992 at 10:56
RECEIVED
92 JUN 12 AM 11:01
DIVISION OF OIL & GAS
LONG BEACH, CA

DEP: 16 & 24-A 15-8 14-12 13-8 12-8 11-8 10-8 09-8 08-8 07-8 06-8 05-8 04-8 03-8 02-8 01-8 00-8
RFP E19 898 1.20
1988 E19 898 1.20

REXER NG P 01
NO. 01 NO. 02
BELKO KEOUKCER INC

GOOD DAY

Sincerely,

BELKO KEOUKCER INC
PETRO RESOURCES INC

Facsimile Transmission Cover Sheet

---

TO: KEN CARLSON  DIVISION OF O&G

Receiving FAX telephone: 310/590/5301

1 more page follows this cover page

Sent by:

JOE ROSE

PETRO RESOURCES INC
4200 EASTON DR #16
BAKERSFIELD, CA 93309

FAX Telephone: 805/323/8567
Voice Telephone: 805/323/4118

In case of trouble, contact: 805 323 4118

Sent on 06-12-1992 at 10:56
<table>
<thead>
<tr>
<th>Item Description</th>
<th>Daily</th>
<th>Accum.</th>
</tr>
</thead>
<tbody>
<tr>
<td>John M. Phillips Co.</td>
<td>12,500</td>
<td></td>
</tr>
<tr>
<td>9,000 PGSR</td>
<td>25.00</td>
<td>25.00</td>
</tr>
<tr>
<td>1 EA. 3-1/2 IF Lifter</td>
<td>15.50</td>
<td>30.00</td>
</tr>
<tr>
<td>1 SET 4-1/2&quot; Tong Jaws</td>
<td>45.00</td>
<td>135.00</td>
</tr>
<tr>
<td>1 SET 4-1/2&quot; Slip Inserts</td>
<td>20.00</td>
<td>60.00</td>
</tr>
<tr>
<td>2 EA. 4-1/2&quot; DRILL COLLARS</td>
<td>10.50</td>
<td>50.00</td>
</tr>
<tr>
<td>SOS Truck Delivery</td>
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<td>300.00</td>
</tr>
<tr>
<td><strong>Sub Total</strong></td>
<td><strong>$880.00</strong></td>
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<tr>
<td>Martin Pacific: Trucking</td>
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<tr>
<td>6-3/4 junk mill</td>
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<tr>
<td><strong>Sub Total</strong></td>
<td><strong>$2035.00</strong></td>
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<tr>
<td>Jet Trailer:</td>
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<tr>
<td>7&quot; Impression Block Per Job</td>
<td></td>
<td>98.00</td>
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<tr>
<td>4&quot;</td>
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<tr>
<td>4-3/8&quot;</td>
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<tr>
<td>4-3/8&quot; Magnet</td>
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<td><strong>Sub Total</strong></td>
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<td>Midway Fishing:</td>
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<tr>
<td>7&quot; Washout Shoe</td>
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<td>7&quot; W/O Extension</td>
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<td>7&quot; Drive Sub W/O</td>
<td>260.00</td>
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<tr>
<td>6-1/2 Junk Mill</td>
<td>185.00</td>
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<td>3 EA. X-OVER SUBS</td>
<td>25.12</td>
<td>75.00</td>
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<tr>
<td>7-3/8&quot; Bit</td>
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<td>7-3/8&quot; shoe</td>
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<td>7-3/8&quot; Drive Sub</td>
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<td>Mise. Unbilled: Tools &amp; Equip</td>
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<td><strong>Sub Total</strong></td>
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</table>
Pricing Resources Inc.

Long Beach, CA

Date: 6-2-92

Lease: Nicub

Well: R-1

Field: Long Beach

ROD RECORD

|------|----------------|--------------|----------------|--------------|--------|

PUMP RECORD

<table>
<thead>
<tr>
<th>Pump No. Out</th>
<th>Make</th>
<th>Size</th>
<th>Plunger</th>
<th>Mandrel</th>
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</thead>
</table>

Size of nipples in tubing string and location:

Make of tubing catcher, anchor:

<table>
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<tr>
<th>Size</th>
<th>Amount of tubing above catcher</th>
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</table>

BAILING RECORD

<table>
<thead>
<tr>
<th>Maker of bailer</th>
<th>Size</th>
<th>Bailed from</th>
<th>to</th>
<th>Formation</th>
</tr>
</thead>
</table>

Fluid Level:

Top Perf.: Bottom Perf.: Zero Point.

REMARKS: Laid out Rig mats - moved in mud pump - hauled mast - S.D. till 11 A.M.

Well Went Off Production: 19 A.M.

Well Put On Production: 19 P.M.

<table>
<thead>
<tr>
<th>HOIST</th>
<th>START</th>
<th>STOP</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAST</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAND LINE</td>
<td></td>
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</tr>
<tr>
<td>PUMP</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>SWIVEL</td>
<td></td>
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</tbody>
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<table>
<thead>
<tr>
<th>PUSHER</th>
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<tbody>
<tr>
<td>HELPER</td>
<td>h. medina</td>
<td></td>
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<tr>
<td>HELPER</td>
<td>sh. medina</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HELPER</td>
<td>H. HART-SC - TRAINER</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Company: **PETRO RESOURCES INC.**

Lease: **AWL B**  
Well: **8-1**

Field: **LONG BEACH, CAL**

**ROD RECORD**

<table>
<thead>
<tr>
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Size of nipples in tubing string and location:

Make of tubing catcher, anchor: **Size**

Amount of tubing above catcher:

**BAILING RECORD**

<table>
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<tr>
<th>Maker of bailer</th>
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<th>Bailed from</th>
<th>to</th>
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</tr>
</tbody>
</table>

Fluid Level:  
Top. Perf.:  
Bottom Perf.:  
Zero Point:  

**REMARKS:**

**REMOVE WELL HEAD - MY 4 1/2 IMPRESSION BLOCK - JET BAKER - R.I.H. - STACKED OUT 651 - P.O.H. - DN. 1 B.**

**1" WIDE MARK ON OUTSIDE OF FACE ON 1 B - R.I.H. W/OPEN END TBG - STOPPED @ 651 - UNABLE TO WORK PAST 651 P.O.H. - R.I.H. 75° COUNTER - STOPPED @ 651, UNABLE TO GET PAST 651 - P.O.H. - MY 4 "JET BAILER 4.1 B. & R.I.H. STACK OUT @ 651 - P.O.H. - 1 B. INDICATES PARTED OR BAD CSG - 0 651 - MY 1 "JT 1 1/4" TBG ON 2 1/2 TBG & R.I.H. UNABLE TO GET PAST 651 - 1/14" TBG - P.O.H. - SECURE WELL LAY WATER LINE TO WELL 8-1**

Rig Crew: **1503**

---

**Well Went Off**  
Production: **A.M.**  
P.M.  
**19**  
**Well Put On**  
Production: **A.M.**  
P.M.  
**19**

<table>
<thead>
<tr>
<th></th>
<th>START</th>
<th>STOP</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOIST</td>
<td><strong>6:30 AM</strong></td>
<td><strong>3:30 PM</strong></td>
<td><strong>9 HRS</strong></td>
</tr>
<tr>
<td>MAST</td>
<td><strong>6:30 AM</strong></td>
<td><strong>3:30 PM</strong></td>
<td><strong>9 HRS</strong></td>
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<td><strong>9 HRS</strong></td>
</tr>
<tr>
<td>PUSHER</td>
<td>R. WHEELER</td>
<td><strong>6:30 AM</strong></td>
<td><strong>3:30 PM</strong></td>
</tr>
<tr>
<td>HELPER</td>
<td>A. MEDINA</td>
<td><strong>6:30 AM</strong></td>
<td><strong>3:30 PM</strong></td>
</tr>
<tr>
<td>HELPER</td>
<td>M. MEDINA</td>
<td><strong>6:30 AM</strong></td>
<td><strong>3:30 PM</strong></td>
</tr>
<tr>
<td>HELPER</td>
<td>C. HARTSOCK</td>
<td><strong>6:30 AM</strong></td>
<td><strong>3:30 PM</strong></td>
</tr>
</tbody>
</table>
Company: Petro Resources Inc.
 Lease: NILB
 Field: Long Beach, CA

ROD RECORD

|------|----------------|--------------|----------------|--------------|--------|

PUMP RECORD

<table>
<thead>
<tr>
<th>Pump No. Out</th>
<th>Make</th>
<th>Size</th>
<th>Plunger</th>
<th>Mandrel</th>
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<tr>
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TUBING RECORD

<table>
<thead>
<tr>
<th>Size</th>
<th>No. Joints Out</th>
<th>Feet</th>
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<th>Total Feet in Hole</th>
</tr>
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</table>

Size of nipples in tubing string and location:

Make of tubing catcher, anchor: Size

Amount of tubing above catcher:

BAILING RECORD

<table>
<thead>
<tr>
<th>Maker of bailer</th>
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<th>to</th>
<th>Formation</th>
</tr>
</thead>
</table>

Fluid Level: Top. Perf. | Bottom Perf. | Zero Point |

REMARKS: Move in Power Swivel & 10' Up Stage 1 Hole Back in Deep Well, 10' Up Hoses & Cross Over 3 Pools to To SR, Shot On until Am 6-5-92 to Receive Wash Over Pipe, Metric Cup, Fishing Tools.

#584.50 Pic's Crew

#40.00 Sub Pay

No Accidents

Well Went Off A.M. 19 Production P.M. 19

START | STOP | HOURS
---|---|---
5:30 A.M. | 10:00 A.M. | 3.5

Hoist #4

Mast

Sand Line

Pump

Swivel

Pusher Pat Wheeler

Helper R. Medina

Helper M. Medina

Helper F. Hart-Sock

Helper
Company: Petro Resources Inc.
Lease: M1W1B Well: 8-1
Field: Long Beach CA

**ROD RECORD**

<table>
<thead>
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**PUMP RECORD**

Pump No. Out: Make: Size: Plunger: Mandrel:
Pump No. In: Make: Size: Plunger: Mandrel:

**TUBING RECORD**

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<thead>
<tr>
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</table>

**DAILY COST ON FISHING TOOLS** $2465.00 APPROX

Size of nipples in tubing string and location:

Make of tubing catcher, anchor: Size: Amount of tubing above catcher:

**BAILING RECORD**

Amount of tubing below catcher:

Maker of bailer: Size: Bailed from to Formation:

Fluid Level: Top Perf: Bottom Perf: Zero Point:

**REMARKS:**

Service Rig & Components: RH hyd open-ended tub. a changeover to fresh water: core fluid receive a unload wash over a mise: tools. Pick up other tools i meas min i RH up 7½" TIE FLAT BLM. SHOE WASH OVER 7 3/4" TO 5 1/2" SHOE TO 6 1/2" INDICATED APPROX 1 0' FISH ENTERED FULL BAG OF SHOE, 30-30,000 ft. STRING WT to pull FREE (BEFORE RH), STRING UP ON RH WT. WERE 10,000 ft. DISCON- 

**CREW ONLY**

- Rig & Crew: 4 Hr. @ 117.00 Total: $468.00
- Sub Pay: 40.00
- Power Swivel: 3/8" Mud Pump: 600.00

**WELL WENT OFF:**

- A.M. Production: 19 P.M. Production: 19

<table>
<thead>
<tr>
<th>Well Put On</th>
<th>A.M.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<tr>
<th>START</th>
<th>STOP</th>
<th>HOURS</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>6 A.M.</td>
<td>10</td>
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<tr>
<td></td>
<td>4 P.M.</td>
<td>10</td>
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<table>
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<table>
<thead>
<tr>
<th>PUSHER</th>
<th>HELPER</th>
<th>HELPER</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. WHEELER</td>
<td>B. MEDINA</td>
<td>B. HARTSOCK</td>
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</table>
**Service Report**

**JOB No 49986**

**Company:** Petco Service Inc  
**Lease:** WU-1  
**Well:** 8-1  
**Field:** Long Beach

**ROD RECORD**

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Size of nipples in tubing string and location.

Make of tubing catcher, anchor | Size | Amount of tubing above catcher

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Fluid Level | Top. Perf. | Bottom Perf. | Zero Point |

**REMARKS**

- See Equip. Nipple & Plug & 7" H 90 Workover Shoe Extension
- Top Sub. Shaded max 3 1/4" 1" 7' 8" 20 1 21 4 24 7 12 on 20 3/16 6 1/4 C. 5 3/8" OD 3 1/2" Torque up to 32,000* Strung Up 13,000* * Pull Rate. Attempt to Work Over
- Get Back to 535' Unable To Get Below 535', Unable To Get Tools To Location Until AM 6-9-92 Secure Wellhead On Well
- Tomorrow

**Rig Cost**

- Fuel & Dray  
- $18.50  
- $1558.50

**Mud Pump**

- $150.00

**No Accidents**

<table>
<thead>
<tr>
<th>Well Went Off</th>
<th>A.M.</th>
<th>Well Put On</th>
<th>A.M.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production P.M.</td>
<td>19</td>
<td>Production P.M.</td>
<td>19</td>
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**HOIST**

- 4

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<thead>
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<th>START</th>
<th>STOP</th>
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<tbody>
<tr>
<td>6:30 AM</td>
<td>6:30 PM</td>
<td>5 1/2</td>
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**MAST**

**SAND LINE**

**PUMP**

**SWIVEL**

**PUSHER**

- R. Wheeler

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**HELPER**

- T. Medina

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**HELPER**

- E. Hartsock

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**Service Report**

**JOB No: 49987**

**Company:**

**Lease:** 27926B

**Field:** Long Beach

**Date:** 6-9-92

**Work Order No:**

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**ROD RECORD**

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</table>

**PUMP RECORD**

<table>
<thead>
<tr>
<th>Pump No. Out</th>
<th>Make</th>
<th>Size</th>
<th>Plunger</th>
<th>Mandrel</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
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<table>
<thead>
<tr>
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<th>Make</th>
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</thead>
<tbody>
<tr>
<td></td>
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**TUBING RECORD**

<table>
<thead>
<tr>
<th>Size</th>
<th>No. Joints Out</th>
<th>Feet</th>
<th>No. Joints Run</th>
<th>Depth of Shoe</th>
<th>Total Feet in Hole</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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**Size of nipples in tubing string and location:**

**Make of tubing catcher, anchor:**

**Amount of tubing above catcher:**

**BAILING RECORD**

<table>
<thead>
<tr>
<th>Maker of bailer</th>
<th>Size</th>
<th>Bailed from</th>
<th>to</th>
<th>Formation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Fluid Level**

Top. Perf. | Bottom Perf. | Zero Point |
---|--------------|-------------|

**REMARKS:**


- Fig & Crew: $1,252.50
- Tower Swivel: $40.00
- Mud Pump: $1892.50
- Total: $2,000.00

**NO Acc.**

---

Well Went Off | A.M. | Well Put On | A.M. | P.M. |
---|------|-------------|------|-----|
Production | 19 | Production | 19 |

<table>
<thead>
<tr>
<th>Hoist</th>
<th>Start</th>
<th>Stop</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>#4</td>
<td>6:30 A.M</td>
<td>2:00 P.M</td>
<td>7 1/2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pusher</th>
<th>Start</th>
<th>Stop</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>W. Way</td>
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<td>2:00 P.M</td>
<td>7 1/2</td>
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<table>
<thead>
<tr>
<th>Helper</th>
<th>Start</th>
<th>Stop</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>K. Miller</td>
<td>6:30 A.M</td>
<td>2:00 P.M</td>
<td>7 1/2</td>
</tr>
<tr>
<td>K. Starks</td>
<td>6:30 A.M</td>
<td>2:00 P.M</td>
<td>7 1/2</td>
</tr>
<tr>
<td>W. White</td>
<td>6:30 A.M</td>
<td>2:00 P.M</td>
<td>7 1/2</td>
</tr>
<tr>
<td>K. McDonald</td>
<td>6:30 A.M</td>
<td>2:00 P.M</td>
<td>7 1/2</td>
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</tbody>
</table>
### ROD RECORD

|------|-----------------|--------------|-----------------|--------------|--------|

### PUMP RECORD

<table>
<thead>
<tr>
<th>Pump No. Out</th>
<th>Make</th>
<th>Size</th>
<th>Plunger</th>
<th>Mandrel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump No. In</td>
<td>Make</td>
<td>Size</td>
<td>Plunger</td>
<td>Mandrel</td>
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### TUBING RECORD

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<th>Size</th>
<th>No. Joints Out</th>
<th>Feet</th>
<th>No. Joints Run</th>
<th>Depth of Shoe</th>
<th>Total Feet in Hole</th>
</tr>
</thead>
</table>

- Size of nipples in tubing string and location
- Make of tubing catcher, anchor
- Amount of tubing above catcher
- Amount of tubing below catcher

### BAILING RECORD

- Maker of bailer: Size
- Bailed from: to Formation
- Fluid Level: Top. Perf., Bottom Perf., Zero Point

### REMARKS

- Equip. mast stringer truck @ 6:30 a.m. A.H. by Some 35' BHA
- RH at P.R. Core buster mill 700' @ 534' mill to 535' P.O.H. 300' OH & 375' RH & RH 7' reverse clean @ 532' B.H.A. P.R. Core Busters 8 see 24' x 16' were pattern on pilot. Before show 1 mile to get pattern. P.O.H. size circle were pattern P.O.H. P.O.H. 7' Impress, mill Black no groove restored.
- RH $47' mill on 6' drill collar. The 534' mill to 537' P.O.H. if 3/4 were pattern indicates 6' $47' rod in tube with smaller circular.
- Inside sawe run 2' 1/2' stringer 4 side @ 531' secure with stringing tool until am 6:11 a.m.

### Time Log

- Well went off P.M. 40th day, 2477.00 Total

<table>
<thead>
<tr>
<th>Well Put On</th>
<th>A.M.</th>
<th>P.M.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production</td>
<td>P.M.</td>
<td>19</td>
</tr>
</tbody>
</table>

- Hoist: 4
- Mast
- Sand Line
- Pump
- Swivel

### Labor

- Pusher: Wheeler
- Helper: J. Mathieu
- Helper: J. Henderson
- Helper: J. Hardwick

- Start: 6 a.m., Stop: 5 a.m., Hours: 11
Company: Petro Resources Inc.
Lease: N.W. L.B.
Well: 8-1
Field: Long Beach

ROD RECORD

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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<tbody>
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</table>

PUMP RECORD

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TUBING RECORD

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<th>No. Joints Run</th>
<th>Depth of Shoe</th>
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</tbody>
</table>

Size of nipples in tubing string and location__________________________

Make of tubing catcher, anchor____________________ Size________
Amount of tubing above catcher____________________

BAILING RECORD

Amount of tubing below catcher____________________

Maker of bailer__________________________ Size________
Fluid Level__________________________ Top. Perf.________ Bottom Perf.________ Zero Paint________

REMARKS

- Equip Air Compressor leaking, kill 15', 6.5 HP, 360 psi, 95% of Implosion Bore, No back up, on site. A sure picture. P.H. of 1000 psi without settling or obstruction.
- Kill 15' of air, recovered 3' line needed all tubing components listed.
- Remaining 200 psi to 250 psi. Wake up torque to 550 lbs. No advantage to establish torque for a 4 3/4" outside wear. 31/2" Circular wet solid 2" center work pattern.
- Secure Well & Shut on.

Crew: J.C. Crew 108' 30" total

Sub Pump 600' 40'.

No Nce.

Well Went Off A.M. | Well Put On A.M.
Production P.M. | 19 Production P.M. | 19

<table>
<thead>
<tr>
<th>HOIST</th>
<th>START</th>
<th>STOP</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>6:30 A.M.</td>
<td>7 P.M.</td>
<td>6 1/2</td>
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</table>

<table>
<thead>
<tr>
<th>MAST</th>
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<table>
<thead>
<tr>
<th>SAND LINE</th>
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</table>

<table>
<thead>
<tr>
<th>PUMP</th>
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<table>
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<th>SWIVEL</th>
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<thead>
<tr>
<th>PUSHER</th>
<th>6:30 A.M.</th>
<th>1 P.M.</th>
<th>4 1/2</th>
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<tbody>
<tr>
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<td>6:30 A.M.</td>
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<td>4 1/2</td>
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<td>10:30 A.M.</td>
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<td>4 1/2</td>
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<td>6:30 A.M.</td>
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<td>4 1/2</td>
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<tr>
<td></td>
<td>6:30 A.M.</td>
<td>1 P.M.</td>
<td>4 1/2</td>
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</table>
REPORT OF PROPERTY AND WELL TRANSFER

Field or county

<table>
<thead>
<tr>
<th>Former owner</th>
<th>District</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long Beach</td>
<td>1</td>
</tr>
</tbody>
</table>

Name and location of well(s)                      Date

<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
<th>Former Owner</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>NWLBU 5-2</td>
<td>NWLBU 8-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NWLBU 5-3</td>
<td>NWLBU 8-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NWLBU 5-4</td>
<td>NWLBU 8-3</td>
<td></td>
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<tr>
<td>NWLBU 6-1</td>
<td>NWLBU 8-4</td>
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<td>NWLBU 6-2</td>
<td>NWLBU 8-7</td>
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<tr>
<td></td>
<td>NWLBU 9-2</td>
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</table>

Description of the land upon which the well(s) is (are) located

Date of transfer, sale, assignment, conveyance, or exchange: May 1, 1983

New owner: Petro Resources, Inc.

Address: 4200 Easton Drive, Suite 16
Bakersfield, CA 94309

Type of organization: Corp.
Telephone No.: 805/323-4118

Reported by Letter from Sun Exploration & Production Co. dated 5-16-83.


New operator new status (status abbreviation): PA

Request designation of agent: Joe D. Rose, same address.

Old operator new status (status abbreviation): PA

Remarks:

Deputy Supervisor: V. F. Gaede

Signature: [Signature]

OPERATOR STATUS ABBREVIATIONS

<table>
<thead>
<tr>
<th>Operator Status Abbreviation</th>
<th>Form or record</th>
<th>Initials</th>
<th>Date</th>
<th>Form or record</th>
<th>Initials</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>PA - Producing Active</td>
<td></td>
<td>CP</td>
<td>1-1-83</td>
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<tr>
<td>NPA - No Potential, Active</td>
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<tr>
<td>PI - Potential Inactive</td>
<td>Form OGD121</td>
<td>CP</td>
<td>1-1-83</td>
<td>Map and book</td>
<td>137</td>
<td>7/13/83</td>
</tr>
<tr>
<td>NPI - No Potential, Inactive</td>
<td>Form OGD140</td>
<td>NONE</td>
<td>Notice to be cancelled</td>
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<td>Ab - Abandoned or No More Wells</td>
<td>New well cards</td>
<td>CP</td>
<td>1-1-83</td>
<td>Bond status</td>
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<td>Well records</td>
<td>CP</td>
<td>1-1-83</td>
<td>EDP Uses Update</td>
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<td>Electric logs</td>
<td>CP</td>
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<td>Production reports</td>
<td>CP</td>
<td>1-1-83</td>
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</table>

FORM AND RECORD CHECK LIST

Abandoned or No More Wells:

- New well cards: Form OGD121, Initials CP, Date 1-1-83
- Map and book: 137, 7/13/83
- Bond status: EDP Uses Update
- Conservation Committee: L. A. Assessors
Name change from Sun Oil Co. to SUN EXPLORATION & PRODUCTION CO.
1-1-82, Form 156 dated 1-21-82. See ownership file.
Dear Sir:

Your request dated March 19, 1979, relative to change in designation of well(s) in Sec. 13, T. 4S, R. 13W, S. B. B. & M., Long Beach field, Los Angeles County, District No. 1, has been received; and in accordance with Section 3203, Public Resources Code, reading in part as follows:

"...The number or designation by which any well heretofore drilled has been known, and the number or designation specified for any well in a notice filed as required by Section 3203, shall not be changed without first obtaining a written consent of the Supervisor."

the proposed change in designation is hereby authorized as follows:

<table>
<thead>
<tr>
<th>Old Designation</th>
<th>API</th>
<th>New Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Oil Operators&quot;</td>
<td>&quot;1&quot;</td>
<td>037-09792</td>
</tr>
<tr>
<td>&quot;&quot;</td>
<td>&quot;2&quot;</td>
<td>037-09793</td>
</tr>
<tr>
<td>&quot;&quot;</td>
<td>&quot;3&quot;</td>
<td>037-06496</td>
</tr>
<tr>
<td>&quot;&quot;</td>
<td>&quot;4&quot;</td>
<td>037-06415</td>
</tr>
<tr>
<td>&quot;Pool&quot;</td>
<td>&quot;1&quot;</td>
<td>037-09795</td>
</tr>
<tr>
<td>&quot;&quot;</td>
<td>&quot;2&quot;</td>
<td>037-00397</td>
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<tr>
<td>&quot;&quot;</td>
<td>&quot;3&quot;</td>
<td>037-09796</td>
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<tr>
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<td>&quot;4&quot;</td>
<td>037-09797</td>
</tr>
<tr>
<td>&quot;Amebco&quot;</td>
<td>&quot;1&quot;</td>
<td>037-09788</td>
</tr>
<tr>
<td>&quot;&quot;</td>
<td>&quot;2&quot;</td>
<td>037-09789</td>
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<tr>
<td>&quot;Flood Control&quot;</td>
<td>&quot;2&quot;</td>
<td>037-13525</td>
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<td>037-00142</td>
</tr>
<tr>
<td>&quot;&quot;</td>
<td>&quot;6&quot;</td>
<td>037-00393</td>
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</tbody>
</table>

RWS: sc

cc: Update Center, EDP, Conservation Committee

By

R. A. Ybarra

Acting Deputy Supervisor

M. G. Mefford
State Oil and Gas Supervisor
Division of Oil and Gas

Gentlemen:

This is a request for a change of well designation for the following well(s):

Sec. 13, T. 45 S., R. 13 W., SB B. & M., Long Beach field,
Los Angeles County.

<table>
<thead>
<tr>
<th>OLD WELL #</th>
<th>OLD DESIGNATION</th>
<th>OLD NAME</th>
<th>OIL OPERATORS</th>
<th>NEW WELL</th>
<th>NEW DESIGNATION</th>
<th>NEW NAME</th>
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<tbody>
<tr>
<td>1</td>
<td>03709792</td>
<td></td>
<td></td>
<td>8-1</td>
<td>NORTHWEST Long Beach Unit</td>
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<tr>
<td>2</td>
<td>03709793</td>
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<td>8-2</td>
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<td>3</td>
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<td>8-4</td>
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</tbody>
</table>

RS/Dave Williams 9/25/79
OK to use "NWLBu"

June Oil Co.
(Name of Operator)

23928 Lyons Ave
(Address)

Newhall, Calif 91321

By [signature]

Form 42 (10/71)
Gentlemen:

This is a request for a change of well designation for the following well(s):

Sec. 13, T. 45, R. 13W, SB B. & M., Long Beach field, Los Angeles County.

<table>
<thead>
<tr>
<th>OLD WELL #</th>
<th>OLD DESIGNATION</th>
<th>OLD NAME POOL</th>
<th>NEW WELL #</th>
<th>NEW DESIGNATION</th>
<th>NEW NAME</th>
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<td>ADESA1</td>
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<td>03709789</td>
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<td>03712525</td>
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<td>03700393</td>
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<td>9-6</td>
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</tbody>
</table>

Sun Oil Company
(Name of Operator)

23928 Lyons Avenue
(Address)

Newhall, Calif. 91321

By: Jack Andrews
### REPORT OF PROPERTY AND WELL TRANSFER

<table>
<thead>
<tr>
<th>Field or county</th>
<th>Long Beach</th>
<th>District</th>
<th>1</th>
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</thead>
<tbody>
<tr>
<td>Former owner</td>
<td>General Exploration Co.</td>
<td>Date</td>
<td>February 15, 1979</td>
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#### Name and location of well(s)

<table>
<thead>
<tr>
<th>Section</th>
<th>Well Name</th>
<th>Well Number</th>
<th>Well Number</th>
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<tr>
<td>Sec. 11-4S-13W</td>
<td>&quot;Dominguez&quot; 2-10</td>
<td>(037-11859)</td>
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<td>Sec. 13-4S-13W</td>
<td>&quot;Flood Control&quot; 6</td>
<td>(037-00393)</td>
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<td>Sec. 11-4S-13W</td>
<td>&quot;Oil Operators&quot; 1</td>
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#### Description of the land upon which the well(s) is/are located:

<table>
<thead>
<tr>
<th>Date of transfer, sale, assignment, conveyance or exchange</th>
<th>New owner</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dec. 1, 1978</td>
<td>Sun Oil Company</td>
<td>23928 Lyons Avenue Newhall, CA 91321</td>
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</table>

Reported by: **Former operator**

Confirmed by: **New operator**

**New operator new status**

<table>
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<tr>
<th>Status abbreviations</th>
<th>Request designation or agent</th>
<th>PA</th>
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**Operator Status Abbreviations**

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<th>PA</th>
<th>NPR</th>
<th>NPI</th>
<th>NS</th>
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<tr>
<td>Producing Active</td>
<td>No Potential Active</td>
<td>No Potential Inactive</td>
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**FORM AND RECORD CHECK LIST**

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<tr>
<th>Form or record</th>
<th>Initials</th>
<th>Date</th>
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<tr>
<td>Map and book</td>
<td>M. B. Albright</td>
<td>2-16-79</td>
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**Signature**

E. B. Stichel

**Conservation Committee Update Center**
May 21, 1976

Mr. Robert L. Graves
GENERAL EXPLORATION CO.
4021 N. Pacific Place
Long Beach, California 90806

Dear Sir:

On May 20, 1976, Mr. G. W. Stark, our representative met with Bob Grey, your representative, to witness that one support piling was cut 20 feet below ground level. The Division approves of this method of pile removal if the holes are filled with tamped earth.

Sincerely,

A. D. Stockton
Associate Oil and Gas Engineer

ADS:dr
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

REPORT OF PROPERTY AND WELL TRANSFER

Field or County: Long Beach
Former Owner: Union Oil Co. of California
Description of Property: Sec. 13, T. 4 S., R. 13 W., S. B. B. & M.

List of Wells: "Oil Operators" 1, "Oil Operators" 2, "Oil Operators" 3 and "Oil Operators" 4. ("Oil Operators" 1, idle; other wells are active)

Date of Transfer: January 1, 1961
New Owner: General Exploration Co. of California
Address: 750 Subway Terminal Building, 417 South Hill Street, Los Angeles 13, Calif.

Telephone No.
Type of Organization: Corporation
Reported by: Union Oil Co. of California (Letter of January 6, 1961)
Confirmed by: General Exploration Co. of California (Letter of January 11, 1961)

New Operator New Status: PA
Old Operator New Status: No

Request designation of agent:

Remarks:

Mr. E. H. Musser
Prod. Dept.
Conservation Committee

INITIALS DATE
Form 121  1-17-61
New Well Cards
Well Records  1-17-61
Electric Logs
Production Reports
Map and Book 130  1-18-61
Form 148
Notice to be cancelled  1-18-61
LEGEND
PA—Producing Active
NPA—Non Potential Active
PI—Potential Inactive
NPI—Non Potential Inactive
Ab—Abandoned or No More Wells
Note—If Transfer Does Not Change Overall Status Enter "No Change"

(S.W. & N.W. of inter Concord Pl. & P.E. Ay.)
January 11, 1961

General Exploration Co. of California
417 South Hill Street
Los Angeles 13, California

Gentlemen

We have been informed that on January 1, 1961, you acquired Union Oil Company of California wells No. "Oil Operators" 1, "Oil Operators" 2, "Oil Operators" 3 and "Oil Operators" 4, Sec. 13, T. 4 S., R. 13 W., S. B. B. & M., Long Beach field.

Please furnish us with the information requested below which may be submitted on the duplicate copy of this letter attached. Please complete the letter, sign and return it to this office as soon as possible.

Yours truly

W. C. BAILEY
Deputy Supervisor

By [Signature]
J. H. Thomas
Associate Oil & Gas Engineer

1. Effective date you acquired the wells: January 1, 1961

2. Name and address of the person or company from whom you acquired the wells:
Union Oil Company of California
161 So. Boylston St., Los Angeles 17, California

3. What are your plans for the wells: Continue producing wells

4. Brief legal description of the property on which the wells are located:
Portions of Secs. 13 and 14, T. 4 S., R. 13 W., S.B.B. & M. in Long Beach field shown on D.O.G. Map No. 20 as Union Oil Co. of Calif. "Oil Operators" lease.

1-11-61
(Date)

GENERAL EXPLORATION COMPANY
OF CALIFORNIA

By [Signature]
January 6, 1961

Wm. C. Bailey
Deputy Supervisor
Division of Oil and Gas
830 North La Brea Avenue
Inglewood 3, California

Re: LONG BEACH AREA
Los Angeles County, California
Oil Operators, Inc. Lease

Dear Mr. Bailey:

Pursuant to Article 4, Chapter 1, Division 3 of the Public Resources Code, notice is hereby given that Union Oil Company of California has sold and transferred to General Exploration Co. of California, 750 Subway Terminal Building, Los Angeles 13, California, effective as of 7:00 o'clock a.m., January 1, 1961, the following oil and gas wells:

Section 13, Township 4 South, Range 13 West

Oil Operator #1 (Standing)
Oil Operator #2
Oil Operator #3
Oil Operator #4

Very truly yours,

G. B. Hall
Supervisor of Lease Processing

By W. A. Watson

WAW/jb
cc: General Exploration Co. of California
750 Subway Terminal Building
Los Angeles 13, California

Attention: Mr. C. G. Willis, President
STENOGRAPHER

Forms Filed
Date Rec'd. 10-3-44
Electric Log /
Location /
Elevation /

ENGINEER

Form Needed / Map Correction /
Form 150b (Date of Release)

At Request of Operator
Because Abandoned
Because Request by Oper.

Remarks

subsequent wire report
DIVISION OF OIL AND GAS

Subsequent Work Report

Operator: Union Oil Company of California  Field: Long Beach
Well No.: Oil Operators #1  Sec.: 13  T.: 4-S  R.: 13-W  S.E.: B. & M.

In compliance with the provisions of Chapter 718, Statutes 1915, as amended, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated Sept. 6, 1929, was filed.

Signed: Henry E. Winters

Date: September 27, 1944  Title: Division Engineer

(President, Secretary or Agent)

Outline in the order of performance, together with the dates thereof, all important operations which alter the condition of the well. Include such information as depth at which redrilling operations were started, size of hole redrilled or deepened; size of pipe, amount of perforations in casing, weight and length of casing landed or cemented or removed; number of sacks of cement used in cementing or plugging operations and exact position thereof. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

<table>
<thead>
<tr>
<th>Date</th>
<th>Casing Record at Beginning of Work</th>
<th>Casing Record at End of Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>1944</td>
<td>13-3/8&quot; G 757'</td>
<td>13-3/8&quot; G 757'</td>
</tr>
<tr>
<td></td>
<td>505' 6-5/8&quot; L 4529', inc. 50' perf.</td>
<td>505' 6-5/8&quot; L 4529', inc. 50' perf.</td>
</tr>
<tr>
<td></td>
<td>C.P. 4475' - Top 161' is Securaloy</td>
<td>C.P. 4475' - Top 161' is Securaloy</td>
</tr>
</tbody>
</table>

- **1944**: Depth Effective Remarks
  - 8-26: 4532 Liner 4529 Rigg'd up to plug and perforate higher.
  - 9-1: 4532 Plug 4443 Cleaned out sand from 4497 to 4529'. Dumped 15 sacks of Blue Diamond construction cement in stages to fill from 4529 to 4443'. Location of plug at 4443' witnessed by Division of Oil and Gas.
  - 9-4: 4532 Plug 4443 Bailed out 143 barrels of oil and 8 barrels of water to lower fluid level from 525' to 1105'.
    - **Note**: Apparently the Securaloy or some other part of the liner was letting fluid through, as all of the perforations were plugged.
  - 9-8: 4532 Plug 4124 Set 6-5/8" Cavins drillable bridge plug at 4200'. Dumped 8-1/2 sacks of Blue Diamond construction cement in stages to fill from 4200 to 4124'. Bailed out 194 barrels of water to lower fluid level from 830 to 1725'. Slight show of oil.
    - **Note**: Securaloy liner must be defective since plug in 6-5/8" is only 21' from shoe of 8-5/8" and 6-5/8" has not been perforated.
  - 9-10: 4532 Plug 4124 Ran rods and 3-1/2" upset tubing to 2419' overall and put well to pumping.

<table>
<thead>
<tr>
<th>Date</th>
<th>Production Data</th>
</tr>
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<tbody>
<tr>
<td>9-12</td>
<td>24 Hrs. Gross 713 Net 0 Gravity 100.0 Remarks</td>
</tr>
<tr>
<td>9-14</td>
<td>24 698 0 100.0</td>
</tr>
<tr>
<td>9-16</td>
<td>18 428 0 100.0</td>
</tr>
<tr>
<td>9-18</td>
<td>24 640 0 100.0 Changed pump.</td>
</tr>
<tr>
<td>9-20</td>
<td>24 610 0 100.0</td>
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</tbody>
</table>
DEAR SIR:

Operations at your well No. "Oil Operators" 1 Sec. 13, T. 4 S., R. 13 W., S.B. B. & M., Long Beach Field, in Los Angeles County, were witnessed by A. Pfeil, Inspector, representative of the supervisor, on Sept. 1, 1944. There was also present William Falconer, Driller, and Leo Murphy, Helper.

Casing Record: 13-3/8" cam. 757'; 3-5/8" cam. 1105'; V.S. Junk None
6-5/8" 4029'–4529', c.p. 4475', perf. 4479'–4529'; T.D. 4532', plugged with cement 4529'–4443'.

The operations were performed for the purpose of testing the location and hardness of a cement plug placed from 4529' to 4443' in the process of plugging. The inspector arrived at the well at 2:15 p.m. and Mr. Falconer reported:

1. The hole was cleaned out to 4529'.
2. On August 31, 1944, 10 sacks of cement was dumped at 4529'; and on September 1, 1944, an additional 5 sacks was dumped.

THE INSPECTOR NOTED THAT the bailier could not be spudded below 4443' and brought up a sample of set cement. The test was completed at 3:15 p.m.

THE LOCATION AND HARDNESS OF THE CEMENT PLUG AT 4443' ARE APPROVED.

cc - Mr. H. E. Winter
- Long Beach

AP: my
L/R.

R. D. BUSH
State Oil and Gas Supervisor
By E. H. Masee
Deputy
Mr. W. S. Eggleston

Los Angeles 14, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

Dear Sir:

Your proposal to plug & alter casing, Well No. "Oil Operators" 1, dated July 15, 1944, has been examined in conjunction with records filed in this office.

RECORDS: The condition of the well is as stated in the notice.

THE NOTICE STATES:

"The present condition of the well is as follows:
1. Complete casing record.
   Total depth 4532'
   13-3/8" C 757'
   8-5/8" C 4105' O.K.
   505' 6-5/8" I 4529', inc. 50' perf. C.P. 4475' (Top 161 ft. of liner Securaloy)

Well is non-commercial.

2. June, 1944 Prod. 82 (Net Oil) 22.1 (Gravity) 99.3 (29 days)"

PROPOSAL:

"The proposed work is as follows:
1. Clean out to 4529' and plug with cement to 4455'.
2. Test plug by Division of Oil and Gas.
3. Make casing test and if O.K., perforate 4250-4270'.
4. If casing test is wet, cement 4-3/4" casing 4020-41300'.
5. Perforate 4250-4270 and test.
6. If wet, plug to 4230' and test plug by Division of Oil and Gas.
7. Perforate 4105 to 4120 and test."

DECISION:

THE PROPOSAL IS APPROVED.

cc- P. A. W.
   H. E. Winter
   Long Beach

Blanket bond No. 99071

R. D. BUSH
State Oil and Gas Supervisor

By H. Messer Deputy
Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well
This notice must be given fifteen days before work begins when possible

Santa Fe Springs, Calif. July 15, 1944

DIVISION OF OIL AND GAS

Los Angeles, Calif.

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of deepening, redrilling, plugging or altering casing at well No. Oil Operators 1

(Cross out unnecessary words)

Sec. 13, T. 4-S, R. 13-W, S.E. B. & M.

Long Beach Field, Los Angeles County.

The present condition of the well is as follows:

1. Complete casing record.
   Total depth 4,532'  
   13-3/8" C 757'  
   8-5/8" C 4,105' O.K.  
   505' 6-5/8" L 4,529', inc. 50' perf. G.P. 4,475' (Top 161 ft. of liner Securaloy)

   Well is non-commercial.

2. June, 1944 Prod. 82 22.1 99.3 (29 days)

   (Date) (Net Oil) (Gravity) (Cst)

The proposed work is as follows:

1. Clean out to 4,529' and plug with cement to 4,455'.
2. Test plug by Division of Oil and Gas.
3. Make casing test and if O.K., perforate 4,250-4,270'.
4. If casing test is wet, cement 4-3/4" casing 4,020-4,300'.
6. If wet, plug to 4,230' and test plug by Division of Oil and Gas.
7. Perforate 4,105 to 4,120 and test.

UNION OIL COMPANY OF CALIFORNIA

(Name of Operator)

By Division Engineer

Address Notice to Division of Oil and Gas in District Where Well is Located
DIVISION OF OIL AND GAS

Subsequent Work Report

OPERATOR: Union Oil Co. of Calif.  FIELD: Long Beach

Well No.: Oil Operators #1  Sec. 13  T. 4 S  R. 15 W  S.B. B. & M.

In compliance with the provisions of Chapter 718, Statutes 1915, as amended, the information given herewith is a complete and correct record of all work done on the well since the previous record, dated 11-12-1937, was filed.

Signed: [Signature]

Date: 9-8-39

Outline in the order of performance, together with the dates thereof, all important operations which alter the condition of the well.

Include such information as depth at which redrilling operations were started, size of hole redrilled or deepened; size of pipe, amount of perforations in casing, weight and length of casing landed or cemented or removed; number of sacks of cement used in cementing or plugging operations and exact position thereof. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

<table>
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<tr>
<th>DATE</th>
<th>DEPTH</th>
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<td>8-10-39</td>
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<td>8-17-39</td>
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<td>8-21-39</td>
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<td>8-22-39</td>
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<td>9-4-39</td>
<td>261</td>
<td>261</td>
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Rig up to pull liner and deepen.
Cut and pulled all of liner. Deepening.

Deepened to 4532. 505.15 - 6-5/8
landed 4529 (hung on Burns line hanger)
inc 49.52 of 120 mesh (12-1-1/2-8) Kobe
cemented thru Baker whirler basket
at 4475 with 125 sacks Victor Oil Well
cement. Top 160.91 of liner is 6-5/8
Seacurloy.

C.O. to 4150, Top of cement 3794.
Bailed fluid to 2810. Splice O K by
Division of Oil and Gas.

C.O. to 4528. Bailing.

Ran 4433 - 3" tubing and rods. Rigged
up pumping unit.

251 gross  184 Net 22.8 26.5% P 13 hr
254 " 248 " 22.0 2.5% P 24 hr
241 " 226 " 22.0 6.1% P 24 hr
235 " 201 " 22.0 14.3% P 24 hr
## FORMATIONS PENETRATED BY WELL

<table>
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<tr>
<th>Depth To</th>
<th>Thickness</th>
<th>Drilled or Cored</th>
<th>Recovery</th>
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<td>4155</td>
<td>4532</td>
<td>377</td>
<td>Drilled &amp;</td>
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<td>DRILLER SIZE &amp; TYPE BARREL</td>
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**Signature:** Henry Elliott
<table>
<thead>
<tr>
<th>DATE</th>
<th>CORE NO.</th>
<th>DIPLIER SIZE &amp; TYPE</th>
<th>FROM</th>
<th>TO</th>
<th>TOTAL REC.</th>
<th>SHALE</th>
<th>OIL SAND</th>
<th>GRAY SAND</th>
<th>SHELL</th>
<th>DESCRIPTION OF CORE</th>
<th>APPT. DIP</th>
<th>ANGLE OF HOLE</th>
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<tr>
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<td>7-5/8&quot; Elliott</td>
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<td>4485</td>
<td>9.6</td>
<td>4.7</td>
<td>0.1</td>
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<td>0.5</td>
<td>Hard brown shale, slightly silty in spots. 0.3 at top broken. Streaks of fine brown oil sand in bottom 1.6</td>
<td></td>
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<td>Firm fine brown oil sand</td>
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<td>0.6</td>
<td>Hard slightly silty brown shale with partings of fine brown oil sand</td>
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<td>Firm to firm soft, fine brown oil sand, grading to medium at bottom. Good odor and dark amber cut</td>
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<td>FIRM, FINE SLIGHTLY ARGILLACEOUS BROWN OIL SAND</td>
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<td>Firm fine brown oil sand. Good odor and dark amber cut</td>
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<td>Firm soft medium brown oil sand</td>
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<td>Hard slightly silty brown shale</td>
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<td>Soft fine brown oil sand, mixed with mud</td>
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<td>Hard brown shale, apparent dip 30°</td>
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<td>4490</td>
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<td>Hard broken brown shale, apparent dip 30°</td>
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<td>Hard broken brown shale, badly broken in coring and mixed with mud. 0.1 crushed zone at top</td>
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<td>14</td>
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<td>No recovery</td>
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<td>4515</td>
<td>4520</td>
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<td>No recovery</td>
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<tr>
<td>DATE</td>
<td>CORE NO.</td>
<td>DRILLER SIZE &amp; TYPE BARREL</td>
<td>FROM</td>
<td>TO</td>
<td>TOTAL RECRT.</td>
<td>SHALE</td>
<td>OIL SAND</td>
<td>GRAY SAND</td>
<td>SHELL</td>
<td>DESCRIPTION OF CORE</td>
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<tr>
<td>8-13-39</td>
<td>17</td>
<td>7-5/9&quot; Elliott</td>
<td>4520</td>
<td>4585</td>
<td>5.6</td>
<td>3.6</td>
<td>2.2</td>
<td></td>
<td>5.8</td>
<td>Firm medium brown oil sand, grading to coarse pebbly brown oil sand. Good odor and dark amber cut.</td>
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<td></td>
<td>18</td>
<td>&quot;</td>
<td>4525</td>
<td>4530</td>
<td>5.7</td>
<td>3.4</td>
<td>2.3</td>
<td></td>
<td>5.7</td>
<td>Firm soft medium to coarse, slightly pebbly in spots, brown oil sand. Good odor and dark amber cut.</td>
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<td></td>
<td>19</td>
<td>&quot;</td>
<td>4530</td>
<td>4532</td>
<td>2.9</td>
<td>2.9</td>
<td></td>
<td></td>
<td>2.9</td>
<td>Firm soft to soft coarse, slightly pebbly brown oil sand. Fair odor and dark amber cut. Sand does not look too good.</td>
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<td></td>
<td>T.D.</td>
<td>4532 8-13-39</td>
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</table>
STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES 
DIVISION OF OIL AND GAS 

Union Oil Co of Calif.  
Name of Operator  

LOS ANGELES  
Calif.  

Address  

9/5/39  

This is to acknowledge the receipt of logs and similar records of wells on Sec. 13 T.  
R. D. BUSH, State Oil and Gas Supervisor  

DUPLICATE  

Form 127 / 5/39  

By  

Date  

13 W - Long  
R. & M., as herewith enumerated by well numbers.  

History  

Core record  

Subsequent work  

Oil log - Oil Operators  

R. D. BUSH, State Oil and Gas Supervisor  

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 1-38146

Los Angeles, Calif. August 29, 1939

Mr. W.S. Egglaston, Agent for UNION OIL COMPANY OF CALIFORNIA

Dear Sir:

Operations at your well No. "OIL OPERATORS" 1 Sec. 13 T.4 S., R.13 W., S. B. & M., Long Beach Field, in Los Angeles County, were witnessed by G. Peirce, Engineer on August 21, 1939. There was also present H. E. Winter, Engineer, and H. C. Richardson, Foreman.

Casing Record:

13-3/8" cement 757' - 8-5/8" cement 1205'.
4479' - 4529'. T. D. 4532', plugged with cement
4475'.

The operations were performed for the purpose of demonstrating that fluid does not have access to the well between the 6-5/8" and 8-5/8" casings,

and the data and conclusions are as follows:

ENGINEER PEIRCE ARRIVED AT THE WELL AT 11:45 P. M. AND MR. WINTER REPORTED THE FOLLOWING:

1. The 6-5/8" liner landed at 4155' was all recovered.
2. An 8 1/2" rotary hole was drilled from 4105' to 4532'.
3. Mud fluid was circulated 4 hr. before cementing the casing.
4. Electrical core readings showed the following: 4440' - 4480' - shale (J-K).
5. On August 17, 1939, 505' of 6-5/8" casing (top 161' Securaloy, bottom 344' - 26 lb.), including 50' of perforated, was landed at 4529' and was cemented through perforations at 4475' with 125 sacks of Victor cement.
6. Cement was drilled out of the 8-5/8" and 6-5/8" casings from 3794' to 4035', equivalent to 68 sacks, and the casing was cleaned out to 4150'.
7. The fluid was bailed to 2800' at 4:45 p. m., on August 21, 1939.

ENGINEER PEIRCE NOTED THE FOLLOWING:

1. The fluid rose 10' in 24 hr., equivalent to 1 bbl. per 24 hr.
2. The hole was open to 4200'.

The test was completed at 12:30 a.m.

THE OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED AS INDICATING THAT fluid does not have access to the well between the 6-5/8" and 8-5/8" casings.

cc H. E. Winter

Long Beach

GP:

R. D. BUSH
State Oil and Gas Supervisor

By

Deputy
STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P. 1-34051

Los Angeles, Calif. July 26, 1939.

Mr. W. S. Eggleston,

Los Angeles, Calif.

Agent for UNION OIL COMPANY OF CALIFORNIA

Dear Sir:

Your proposal to deepen Well No. "OIL OPERATORS" 1, Section 13, T. 4 S., R. 13 W. S.W., B. & M., Long Beach Field, Los Angeles County, dated July 24, 1939, received July 26, 1939, has been examined in conjunction with records filed in this office. Present conditions as shown by the records and the proposal are as follows:

RECORDS: The condition of the well is as stated in the notice.

THE NOTICE STATES:
"The present condition of the well is as follows:
4155' deep
13-3/8" C 757' O.K.
8-5/8" C 4105' O.K.
68' 6-5/8" L 4155', inc. 47' perf.
June, 1939 production 1034 oil, 16,287 water - 30 days."

PROPOSAL:
"The proposed work is as follows:
1. Pull 6-5/8" liner.
2. Deepen to approximately 4535'.
3. Land 6-5/8" liner, including 110' perforated, at 4535' and cement through perforations at approximately 4425'."

DECISION:
The proposal is approved provided that this Division shall be notified to witness a test after drilling out the cement to within 50' of the cementing point to demonstrate that no fluid has access to the well between the 6-5/8" and 8-5/8" casings.

cc - H. E. Winter
Long Beach
WJC:OH

R. D. BUSH
State Oil and Gas Supervisor

By [signature] Deputy