

OPERATOR Paul Lister  
 LSE & NO. P-39  
 MAP NO. 150

|                  |                |                 |  |  |  |
|------------------|----------------|-----------------|--|--|--|
| INTENTION        | <u>alter</u>   | <u>rework</u>   |  |  |  |
| NOTICE DATED     |                | <u>10-11-77</u> |  |  |  |
| P-REPORT DATED   | <u>273-183</u> | <u>273-384</u>  |  |  |  |
| CHECKED BY/DATE  |                |                 |  |  |  |
| MAP LETTER DATED | <u>NC</u>      | <u>NC</u>       |  |  |  |
| SYMBOL           |                |                 |  |  |  |

|                    | REC'D          | NEED | REC'D           | NEED            | REC'D    | NEED | REC'D | NEED | REC'D | NEED |
|--------------------|----------------|------|-----------------|-----------------|----------|------|-------|------|-------|------|
| NOTICE             |                |      | <u>10-18-77</u> | <u>X</u>        |          |      |       |      |       |      |
| HISTORY            | <u>8-21-73</u> |      | <u>12-18-77</u> | <u>X</u>        |          |      |       |      |       |      |
| SUMMARY            |                |      | <u>12-18-77</u> | <u>X</u>        |          |      |       |      |       |      |
| IES/ELECTRIC LOG   |                |      |                 |                 |          |      |       |      |       |      |
| DIRECTIONAL SURV.  |                |      |                 |                 |          |      |       |      |       |      |
| CORE/SWS DESCRIPT. |                |      |                 |                 |          |      |       |      |       |      |
| DIPMETER RESULTS   |                |      |                 |                 |          |      |       |      |       |      |
| OTHER              |                |      | <u>BOPE</u>     | <u>01-11-77</u> | <u>X</u> |      |       |      |       |      |
| RECORDS COMPLETE   | <u>8-21-73</u> |      | <u>12-18-77</u> | <u>X</u>        |          |      |       |      |       |      |

|                          |                     |                  |                           |
|--------------------------|---------------------|------------------|---------------------------|
| ENGINEERING CHECK        |                     | CHEMICAL CHECK   |                           |
| T-REPORTS _____          | POSTED TO 121 _____ | 170 MAILED _____ | FINAL LETTER MAILED _____ |
| OPERATOR'S NAME _____    | _____               | _____            | _____                     |
| WELL DESIGNATION _____   | _____               | _____            | RELEASE _____             |
| LOC. & ELEVATION _____   | _____               | _____            | BOND _____                |
| SIGNATURE _____          | _____               | _____            | _____                     |
| SURFACE INSPECTION _____ | _____               | _____            | _____                     |
| FENAL LETTER OK _____    | _____               | _____            | _____                     |

REMARKS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

STATE OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL AND GAS

REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

Ventura \_\_\_\_\_, California

November 6, 1991 \_\_\_\_\_

R. D. Phillips, Agent  
SOUTHERN CALIFORNIA GAS COMPANY  
P.O. Drawer 3249 Mail Location 22GO  
Los Angeles, CA 90051-1249

Your request, dated July 24, 1991, proposing to change the designation of well(s) in Sec. 28, T. 3N, R. 16W, S.B. B. & M., Aliso Canyon field, Los Angeles County, District No. 2, has been received.

The proposed change in designation, in accordance with Section 3203, Public Resources Code, is authorized as follows:

| <u>FROM</u>               | <u>TO</u>               |
|---------------------------|-------------------------|
| "SFZU" P-4 (037-00699)    | "Porter" 4 (037-00699)  |
| "SFZU" P-25 (037-00712)   | "Porter" 25 (037-00712) |
| "SFZU" P-26 (037-00713)   | "Porter" 26 (037-00713) |
| "SFZU" P-34 (037-00721)   | "Porter" 34 (037-00721) |
| "SFZU" P-35 (037-00722)   | "Porter" 35 (037-00722) |
| "SFZU" P-38 (037-00725)   | "Porter" 38 (037-00725) |
| ✓ "SFZU" P-39 (037-00726) | "Porter" 39 (037-00726) |
| "SFZU" P-40 (037-00727)   | "Porter" 40 (037-00727) |
| "SFZU" P-41 (037-00728)   | "Porter" 41 (037-00728) |
| "SFZU" P-42 (037-00729)   | "Porter" 42 (037-00739) |
| "SFZU" P-43 (037-00730)   | "Porter" 43 (037-00730) |
| "SFZU" P-44 (037-00731)   | "Porter" 44 (037-00731) |
| "SFZU" P-46 (037-00733)   | "Porter" 46 (037-00733) |
| "SFZU" P-47 (037-00734)   | "Porter" 47 (037-00734) |

M. G. MEFFERD, State Oil and Gas Supervisor

By   
Deputy Supervisor  
PATRICK J. KINNEER

DIVISION OF OIL AND GAS  
 RECEIVED  
 DEC 12 1977

## DIVISION OF OIL AND GAS

### History of Oil or Gas Well

SANTA PAULA, CALIFORNIA

OPERATOR SOUTHERN CALIFORNIA GAS COMPANY FIELD Aliso Canyon  
 Well No. PORTER #39, Sec. 28, T. 3N, R. 16W, S.B. B. & M.  
 API #037-00726  
 Date December 6, 19 77 Signed P. S. Magruder, Jr.  
P.O. Box 3249, Terminal Annex P. S. Magruder, Jr.  
Los Angeles, California 90051 Title Agent  
(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

1977

- 10-14 Killed well with 317 barrels of 71#/cu.ft. brine-polymer drilling fluid.
- 10-17 Moved in and rigged up California Production Service Rig #D-4. Circulated well. Installed back-pressure valve in tubing hanger. Removed Christmas tree and installed 5000 psi Class III B.O.P.E.
- 10-18 Pressure tested complete shut-off rams and pipe rams to 4000 psi with water and nitrogen. Also, pressure tested Hydril "G,K," to 3000 psi with water and nitrogen. Unseated packer.
- 10-19 Laid down production tools. Made up 6" bit and casing scraper. Ran in and cleaned out to top of liner at 8427'. Pulled out and made up 4 1/8" bit and 5" casing scraper. Cleaned out fill from 8570' to 8650'. Circulated well clean and pulled out to top of liner at 8429'.
- 10-20 Cleaned out fill from 8650' to 8682'. Made up Baker Lok-Set bridge plug. Ran in well and set same at 8410'. Tested plug to 1200 psi.
- 10-21 Ran in hole with Baker fullbore and set at 3500'. Tested from 3500' to 8410' with 2600 psi; 3500' to surface with 2900 psi; 3000' to surface with 3100 psi; 2500' to surface with 3300 psi; 2000' to surface with 3500 psi; 1500' to surface with 3700 psi; 900' to surface with 4000 psi. All tested conducted for one hour with no leaks.
- 10-22-77 Changed over from fresh water to polymer 77#/cu.ft. drilling fluid. Pulled bridge plug loose and circulated gas from well. Pulled and laid down Baker bridge plug. Rigged up and ran Baker Retrieva-"D" production packer and set at 8400'. Made up Camco and Baker production tools. Running tubing in well hydrotesting to 5000 psi, changing collars, cleanings threads and applying Baker seal.
- 10-23 Rig and crew idle.

Well History for PORTER #39 - Aliso Canyon

1977

- 10-24 Hydrotesting in well with 2 7/8" tubing, changing collars, cleaning threads, applying Baker seal and Hydrotesting to 5000 psi for one minute.
- 10-25 Finished Hydrotesting in well. Spaced out and latched into packer. Landed tubing with 10,000# on packer. Pulled 25,000# over weight of string (46,000#). Removed B.O.P.E. and installed Christmas tree. Tested tree to 5000 psi. Changed over to lease salt water. Ran Archer-Reed wireline and set plug in NO-GO nipple. Tested seals and packer to 2000 psi - O.K. Recovered tubing plug. RELEASED RIG at 8:00 P.M. (10-25-77).

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

Report on Operations

No. T 277-328

Mr. P. S. Magruder, Jr., Agent  
So. California Gas Co.  
P.O. Box 54790 Terminal Annex  
Los Angeles, Calif. 90054

Santa Paula, Calif.  
Nov. 18, 1977

DEAR SIR:

Operations at well No. "SPZU" P-39, API No. 037-00726, Sec. 28, T. 3N, R. 16W,  
S.B., B & M. Aliso Canyon Field, in Los Angeles County, were witnessed  
on 10/18/77. Mr. P.R. Wyle, representative of the supervisor was  
present from 1330 to 1430. There were also present A. Obler, foreman

Present condition of well: No additions to the casing record since proposal dated  
10/11/77.

The operations were performed for the purpose of testing the blowout prevention equipment  
and installation.

DECISION:

THE BLOWOUT PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

b

M. G. MEFFERD  
JOHN C. MATTHEWS, JR.  
State Oil and Gas Supervisor

By John L. Hardoin Deputy

REPORT ON PROPOSED OPERATIONS

Santa Paula, California

Oct. 14, 1977

Mr. P. S. Magruder, Jr., Agent  
Southern Calif. Gas Co.  
P.O. Box 54790 Terminal Annex  
Los Angeles, Calif. 90054

Your proposal to rework gas storage well "SPZU" P-30  
(Name and number)  
, A.P.I. No. 037-00726, Section 28, T. 3N, R. 16W  
S.B. B. & M. Aliso Canyon field, Los Angeles County,  
dated 10-11-77, received 10-13-77, has been examined in conjunction  
with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Hole fluid of sufficient quality and quantity shall be maintained in the hole to control any subsurface condition, and a reserve supply shall be on hand for emergencies.
2. Blowout prevention equipment of at least DOG Class III, 5M, shall be installed and maintained in operating condition at all times.
3. THIS DIVISION SHALL BE NOTIFIED TO WITNESS A PRESSURE TEST OF THE BLOWOUT PREVENTION EQUIPMENT BEFORE COMMENCING DOWNHOLE OPERATIONS.

NOTE: A COPY OF THIS APPROVAL SHALL BE AVAILABLE AT THE WELL SITE DURING THE PROPOSED OPERATIONS.

Blanket Bond  
MD:b

M. G. MEFFERD  
State Oil and Gas Supervisor  
By *John L. Hardein*  
Deputy Supervisor

John L. Hardein

DIVISION OF OIL AND GAS  
RECEIVED

OCT 13 1977

DIVISION OF OIL AND GAS  
Notice of Intention to Rework Well

This notice and indemnity or cash bond shall be filed, and approval given, before rework begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered null and void.

SANTA PAULA, CALIFORNIA

| FOR DIVISION USE ONLY |           |          |
|-----------------------|-----------|----------|
| BOND                  | OGD114    | OGD121   |
|                       | <i>bb</i> | <i>✓</i> |

DIVISION OF OIL AND GAS

In compliance with Section 3203, Division 3. Public Resources Code, notice is hereby given that it is our intention to rework well No. PORTER #39, API No. \_\_\_\_\_, Sec. 28, T. 3N, R. 16W, S.B. B. & M., Aliso Canyon Field, Los Angeles County.

The present condition of the well is as follows:

- Total depth. 8687'
- Complete casing record, including plugs and perforations:
  - 13 3/8" cemented 500'
  - 7" cemented 8460', WSO on shoe
  - 255' 5" landed 8682', top 8427', slotted 8460'-8682'

- Present producing zone name Sesnon Zone in which well is to be recompleted ---
- Present zone pressure 3650' New zone pressure ---
- Last produced Gas Storage Well  
(Date) (Oil, B/D) (Water, B/D) (Gas, Mcf/D)  
or
- Last injected \_\_\_\_\_  
(Date) (Water, B/D) (Gas, Mcf) (Surface pressure, psig.)

The proposed work is as follows:

- Move in and rig up. Killwell. Install B.O.P.E. and pressure test.
- Pull packer and tubing. Clean out to 8682'.
- Pressure test 7" casing. Perform any remedial work indicated by pressure testing.
- Run packer and tubing with down hole safety system.
- Return well to gas storage operation.

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

Address P.O. Box 3249 Terminal Annex  
(Street)  
Los Angeles California 90051  
(City) (State) (Zip)  
Telephone Number (213) 689-3561

Southern California Gas Company  
(Name of Operator)  
By P.A. Magruder 10/11/77  
(Name) (Date)  
Type of Organization Corporation  
(Corporation, Partnership, Individual, etc.)

PORTER #39 - ALISO CANYON

Program to run new packer, pressure test casing and run new down hole safety system.

TUBING WITHDRAWAL ONLY

Take all measurements from original Kelly Bushing 12' above ground.

PRESENT CONDITIONS:

13 3/8" cemented 500' 54.5# J-55  
7" cemented 8460, WSO on shoe  
255' 5" landed 8682', slotted 8460' - 8682' top 8427'

7" CASING DETAIL

|               |     |      |  | 100% Safety Factor |          |
|---------------|-----|------|--|--------------------|----------|
|               |     |      |  | Burst              | Collapse |
| 0' - 60'      | 29# | N-80 |  | 8160               | 6370     |
| 60' - 4070'   | 23# | J-55 |  | 4360               | 3290     |
| 4070' - 5775' | 23# | N-80 |  | 6340               | 4300     |
| 5775' - 7268' | 26# | N-80 |  | 7240               | 5320     |
| 7268' - 8475' | 29# | N-80 |  | 8160               | 6370     |

TUBING DETAIL

2 7/8" 8rd EUE J-55 landed 8413'  
Baker Hydrostatic packer 8413'  
Baker "F" nipple 8396'  
Baker sliding sleeve 8364' (closed)  
Five Camco gas lift mandrel with valves

PROGRAM

1. Move in and rig up. Pressure test well head seals to 5000 psi.
2. Kill well with 77#/cu.ft. brine polymer drilling fluid. Check bottom hole pressure before moving in rig. Volume of well - 350 barrels.
3. Install back pressure valve in doughnut. Remove Christmas tree and install class III 5000 psi B.O.P.E. Pressure test complete shut-off rams and pipe rams to 4000 psi with water and nitrogen. Also pressure test Hydril bag to 3000 psi with water and nitrogen.
4. Unseat packer and pull tubing.
5. Run 2 7/8" tubing with 6" bit and casing scraper and clean out to top of 5" liner at 8427'. Run 4 1/8" bit and casing scraper, clean out to 8682'.

NOTE: Amount of fill and type.

6. Set bridge plug at 8410' and pressure test with rig pump. Circulate Polymer drilling fluid out of well with fresh water treated with surface tension agent. Pressure test casing using cement retainer and cement pump truck equipped with calibrated pressure chart and pressure gauge, as follows:

|                  |               |                |
|------------------|---------------|----------------|
| 3500' - 8410'    | with 2600 psi | for 60 minutes |
| 3500' to Surface | with 2900 psi | for 60 minutes |
| 3000' " " "      | 3100 psi      | " 60 "         |
| 2500' " " "      | 3300 psi      | " 60 "         |
| 2000' " " "      | 3500 psi      | " 60 "         |
| 1500' " " "      | 3700 psi      | " 60 "         |
| 900' " " "       | 4000 psi      | " 60 "         |

Change to polymer drilling fluid.

7. Perform any remedial work indicated by pressure testing. Pull bridge plug at 8410'.
8. Run Baker "Retrieva-D" packer on wire line and using reference collars - set packer near 8400. DO NOT set packer in a collar.
9. Run 2 7/8" tubing, change collars, clean pins, apply Baker seal and hydrotest to 5000 psi holding each test for one minute. Tubing to include:
  - Baker production tube
  - Baker four seals
  - Baker Latch-in-locator
  - Camco 10' heavy wall tube
  - Camco 1.81" "NO GO"
  - Camco 20' heavy wall tube
  - Camco tubing flow safety valve
  - One Joint of 2 7/8" tubing
  - Camco empty gas lift valve with pump-out valve
10. Land tubing on packer with up to a maximum of 10,000 pounds - pull 25,000 pounds over weight of tubing to check latch.
11. Set back pressure valve in doughnut. Remove B.O.P.E. and reinstall Christmas tree. Pressure test Christmas tree to 5000 psi. Also retest well head seals to 4500 psi.
12. Circulate drilling fluid out of well with waste salt water. Set tubing plug in "NO GO" nipple. Pressure test seals and packer under 1800 psi. Remove tubing plug and release rig.

G.C. ABRAHAMSON  
October 8, 1977

|                         |              |            |
|-------------------------|--------------|------------|
| cc: Rig Supervisor      | B. Jones     | Well File  |
| Relief Rig Supervisor   | D. Smiley    | Book Copy  |
| Contract Pusher (2)     | J. Melton    | Spare Copy |
|                         | D. Justice ) |            |
| Division of Oil & Gas ✓ | M. Grijalva) |            |

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION

## DIVISION OF OIL AND GAS

## History of Oil or Gas Well

OPERATOR Pacific Lighting Service Company FIELD Aliso Canyon

Well No. P-39, Sec. 28, T. 3N, R. 16W, S.B. B. & M.

Date August 20, 19 73 Signed *P.B. Maguire Jr.*

P. O. Box 54790, Terminal Annex  
Los Angeles, California 90054 (213) 689-3561 Title Agent

(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 |  |
|------|--|
| 1973 |  |
| 5-14 | Moved in California Production Service and rigged up.  |
| 5-15 | Blew down tubing and casing to 50 psi and filled same with 297 bbls. brine-polymer workover fluid. Hole standing full. Removed production head and installed class 3 B.O.P.E. Tested same with 1000 psi--OK. Pulled packer loose and circulated around twice from 8402'.   |
| 5-16 | Filled hole with 4 bbls. Pulled tubing and packer. Ran 4-1/8" bit and 5" casing scraper. Hit fill at 8605'. Circulated and cleaned out to bottom at 8682'.   |
| 5-17 | Rigged up Dresser Atlas. Ran cement bond log 7100'-8675' and Neutron Lifetime/gamma ray logs 7940'-8675'. Ran 7" casing scraper and tagged top of liner at 8427'. Ran 7" Baker Lok-set bridge plug and set same at 8417'. Tested bridge plug with 1000 psi for 15 minutes--OK.   |
| 5-18 | Removed B.O.P.E. and tubing head. Rigged up spear and casing jacks. Unlanded 7" casing with 213,000 lbs. Deepened cellar and cut off casing head.  |
| 5-19 | Welded on new A.P.I. 5000 psi casing head. X-rayed weld--OK. Relanded 7" casing with 225,000 lbs. Installed new seal flange and tubing head. Tested seals with 4000 psi for 20 minutes--OK. Reinstalled B.O.P.E.   |
| 5-20 | Idle.  |
| 5-21 | Ran 7" Baker fullbore packer and set same at 2274'. Tested 7" casing from surface to 2274' with 3000 psi for 20 minutes--OK. Reset packer at 3206' and tested from surface to 3206' with 2600 psi for 20 minutes--OK. Set fullbore at 4083' and tested from surface to 4083' with 2200 psi for 20 minutes--OK. Tested from 4083' to bridge plug at 8417'--No good. Collar logs show that bridge plug may have been set in collar. Ran in and set fullbore packer at 8387' and tested surface to 8387' with 1800 psi for 20 minutes--OK. Reset packer at 8397' to verify results and test collar at 8387' (NLL measurement). Tested from surface to 8397' with 1800 psi for 15 minutes--OK. 7" casing OK. |

- 1973
- 5-22 Ran bridge plug retrieving tool. Pulled plug from 8417'. Ran wire brush and cleaned out liner slots 8460'-8682'. Circulated clean.
- 5-23 Changed over to lease salt water and pulled wire brush. Made up completion string including Baker "FH" hydrostatic packer and Baker hydro-trip pressure sub and ran same. Dropped ball and pressured tubing to set Baker packer at 8412'. Pumped out ball seat and attempted to circulate around packer. Could not circulate with 1500 psi. Packer set OK. Removed B.O.P.E. and installed new production head. Test of head--No Good.
- 5-24 Pulled head and replaced donut packing. Reinstalled X-mas tree and tested same with 4210 psi for 15 minutes--OK. No extended neck seals installed. Unloaded 212 bbls. salt water with nitrogen. Blew down tubing. Tore out California Production Service.

| <u>No. Joints</u> | <u>Item</u>   | <u>Length</u> | <u>Depth</u> |
|-------------------|---|---------------|--------------|
|                   | Below K.B.  | 17.00         | 17.00        |
|                   | 2-7/8" Nat. seal lock x 2-7/8" EU 8rd., N-80 fatigue nipple | .80           | 17.80        |
| 160               | 2-7/8" EU, 8rd., J-55 tubing                                | 4991.76       | 5009.56      |
|                   | 2-7/8" EU, 8rd., N-80 pup joint                             | 4.10          | 5013.66      |
|                   | 2-7/8" Camco KBMG mandrel w/BK valve, 1/4" port, 1050#      | 5.20          | 5018.86      |
|                   | 2-7/8" EU, 8rd., N-80 pup joint                             | 2.20          | 5021.06      |
| 28                | 2-7/8" EU, 8rd., J-55 tubing                                | 871.01        | 5892.07      |
|                   | 2-7/8" EU, 8rd., N-80 pup joint                             | 4.10          | 5896.17      |
|                   | 2-7/8" Camco KBMG mandrel w/BK valve, 1/4" port, 1025#      | 5.20          | 5901.37      |
|                   | 2-7/8" EU, 8rd., N-80 pup joint                             | 2.20          | 5903.57      |
| 28                | 2-7/8" EU, 8rd., J-55 tubing                                | 870.48        | 6774.05      |
|                   | 2-7/8" EU, 8rd., N-80 pup joint                             | 4.10          | 6778.15      |
|                   | 2-7/8" Camco KBMG mandrel w/BK valve, 1/4" port, 1000#      | 5.20          | 6783.35      |
|                   | 2-7/8" EU, 8rd., N-80 pup joint                             | 2.20          | 6785.55      |
| 26                | 2-7/8" EU, 8rd., J-55 tubing                                | 801.95        | 7587.50      |
|                   | 2-7/8" EU, 8rd., N-80 pup joint                             | 4.10          | 7591.60      |
|                   | 2-7/8" Camco KBMG mandrel w/BK valve, 1/4" port, 975#       | 5.20          | 7596.80      |
|                   | 2-7/8" EU, 8rd., N-80 pup joint                             | 2.20          | 7599.00      |
| 23                | 2-7/8" EU, 8rd., J-55 tubing                                | 718.51        | 8317.51      |
|                   | 2-7/8" EU, 8rd., N-80 pup joint                             | 4.10          | 8321.61      |
|                   | 2-7/8" Camco KBMG mandrel w/BK valve, 1/4" port, 950#       | 5.20          | 8326.81      |
|                   | 2-7/8" EU, 8rd., N-80 pup joint                             | 2.20          | 8329.01      |
| 1                 | 2-7/8" EU, 8rd., J-55 tubing                                | 31.65         | 8360.66      |
|                   | 2-7/8" x 2.31" I.D. Baker "L" sliding sleeve (closed)       | 2.90          | 8363.56      |
| 1                 | 2-7/8" EU, 8rd., J-55 tubing                                | 31.35         | 8394.91      |
|                   | 2-7/8" x 2.31" I.D. Baker "F" landing nipple                | 1.00          | 8395.91      |
|                   | 2-7/8" EU, 8rd., N-80 pup joint                             | 10.10         | 8406.01      |
|                   | 2-7/8" x 7" 29# Baker "FH" Hydrostatic packer               | 6.70          | 8412.71      |
|                   | 2-7/8" Baker Hydro-trip pressure sub                        | .58           | 8413.29      |

267 Jts.

35,000# shear out on packer

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P 273-183

Mr. P. S. Magruder, Jr., Agent  
Pacific Lighting Service Co.  
P. O. Box 54790, Terminal Annex  
Los Angeles, California 90054

Santa Paula Calif.  
April 25, 1973

DEAR SIR:

(037-00726)

Your proposal to alter casing Well No. "SFZU" P-39  
Section 28, T. 3N, R. 16W, S.B.B. & M., Aliso Canyon Field, Los Angeles County,  
dated 4/19/73, received 4/25/73, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT ADEQUATE BLOWOUT PREVENTION EQUIPMENT SHALL  
BE INSTALLED AND MAINTAINED IN OPERATING CONDITION AT ALL TIMES.

Blanket Bond  
ALL:r  
cc: Operator

JOHN F. MATTHEWS, JR., State Oil and Gas Supervisor

By *DCD Putz*, Deputy

DIVISION OF OIL AND GAS

APR 23 1973

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

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

SANTA MONICA, CALIF.

Los Angeles Calif. April 19 1973

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. SFZU P-39

(Cross out unnecessary words)

, Sec. 28, T. 3N, R. 16W, S.B. B. & M.

Aliso Canyon Field, Los Angeles County.

The present condition of the well is as follows:

1. Total depth. 8687'

2. Complete casing record, including plugs:

- 13-3/8" cemented 500'
- 7" cemented 8475'. WSO shoe 8475'
- 5" 8427' to 8682'
- 80m perforation slots 8460' to 8682'

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

The proposed work is as follows:

Jet perforate 2 holes per foot as required from 8475' to 8668' to convert well to a gas storage well.

|     |     |       |         | FORMS |     |
|-----|-----|-------|---------|-------|-----|
| WAP | WSP | Other | Other   | 114   | 121 |
|     |     |       | Blackot | ✓     | ✓   |

P. O. Box 54790, Terminal Annex  
Los Angeles, California 90054

(Address)

(213) 689-3561

(Telephone No.)

Pacific Lighting Service Company

(Name of Operator)

By *P. B. Magruder*

STATE OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL AND GAS

REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

830 North La Brea Avenue  
Inglewood, California

September 26, 1968

Mr. Mr. C. G. Nelson, Agent  
Getty Oil Co., Operator  
P. O. Box 811  
Agent for Ventura, California 93001

DEAR SIR:

Your request dated letter dated August 26, 1968, relative to change in designation of well(s) in Sec. 27, 28, 34, T. 3 N., R. 16 W., S. B. B. & M., Aliso Canyon 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: (formerly owned by Getty Oil Co.)

See attached list.

ag  
cc: F. E. Kasline  
Production Dept.  
Conservation Committee

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

By *Wm. C. Bailey*  
Deputy Supervisor



Proposed Changes of Well Designation

Old Designation:

New Designation:

Sec. 27:

"Fernando Fee" 32  
 "Porter" 12  
 " 30  
 " 31  
 " 32  
 " 36  
 " 37  
 " 45

"SFZU" FF-32 (037-00686)  
 " P-12 (037-00701)  
 " P-30 (037-00717)  
 " P-31 (037-00718)  
 " P-32 (037-00719)  
 " P-36 (037-00723)  
 " P-37 (037-00724)  
 " P-45 (037-00732)

Sec. 28:

"Porter" 4  
 " 25  
 " 26  
 " 34  
 " 35  
 " 38  
 " 39  
 " 40  
 " 41  
 " 42  
 " 43  
 " 44  
 " 46  
 " 47  
 "Porter-Sesnon" 42

"SFZU" P-4 (037-00699)  
 " P-25 (037-00712)  
 " P-26 (037-00713)  
 " P-34 (037-00721)  
 " P-35 (037-00722)  
 " P-38 (037-00725)  
 " P-39 (037-00726)  
 " P-40 (037-00727)  
 " P-41 (037-00728)  
 " P-42 (037-00729)  
 " P-43 (037-00730)  
 " P-44 (037-00731)  
 " P-46 (037-00733)  
 " P-47 (037-00734)  
 " PS-42 (037-00753)

Sec. 34:

"Fernando Fee" 31  
 " 33  
 " 34  
 " 35  
 "Mission-Adrian Fee" 3  
 " 4  
 " 5

"SFZU" FF-31 (037-00685)  
 " FF-33 (037-00687)  
 " FF-34 (037-00688)  
 " FF-35 (037-00689)  
 " MA-3 (037-00693)  
 " MA-4 (037-00694)  
 " MA-5 (037-00695)

DIVISION OF OIL AND GAS

LOS ANGELES, CALIFORNIA

WELL SUMMARY REPORT

Operator WELLS MANAGEMENT ASSOCIATED OIL COMPANY Field ALISO CANYON

Well No. MONTEZ 39 Sec. 28, T. 3 N, R. 16 W, S. 8, B. & M.

Location 1773.49' south & 1217.51' west of Sta. 24 Elevation of derrick floor above sea level 2601.63 feet.  
ground

In compliance with the provisions of Chapter 93, Statutes of 1939, 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 October 24, 1947

Signed R. S. Carl

W. F. Forken  
(Engineer or Geologist)

R. S. Carl  
(Superintendent)

Title Agent  
(President, Secretary or Agent)

Commenced drilling June 29, 1947 Completed drilling September 4, 1947 Drilling tools Cable Rotary

Total depth 6687' Plugged depth \_\_\_\_\_ GEOLOGICAL MARKERS DEPTH

Junk \_\_\_\_\_

Commenced producing September 7, 1947 (date) Flowing/gas lift/pumping (cross out unnecessary words)

Initial production 9/8  
Production after 30 days 10/7

| Clean Oil bbl. per day | Gravity Clean Oil | Per Cent Water including emulsion | Gas Mcf. per day | Tubing Pressure | Casing Pressure |
|------------------------|-------------------|-----------------------------------|------------------|-----------------|-----------------|
| 374 (18 hrs.)          | 21.4°             | 21.4                              | 150 MCF          | 504             | 04              |
| 97                     |                   | 1.0%                              |                  | 6004            | 7504            |

CASING RECORD (Present Hole)

| Size of Casing (A. P. I.) | Depth of Shoe | Top of Casing | Weight of Casing | New or Second Hand | Seamless or Lapweld | Grade of Casing | Size of Hole Casing landed in | Number of Sacks of Cement | Depth of Cementing if through perforations |
|---------------------------|---------------|---------------|------------------|--------------------|---------------------|-----------------|-------------------------------|---------------------------|--|
| 13-3/8"                   | 500'          | 0'            | 54.56            | New                | Seamless            | J-55 & 760      | 17-1/4"                       | 350                       |  |
| 7"                        | 6475'         | 0'            | 23.26, 294       | New                | Seamless            | J-55 & 80       | 11"                           | 500                       |  |
| 5"                        | 6682'         | 6475'         | 17.936           | New                | Seamless            | J-55            | 6"                            | 0                         |  |

PERFORATIONS

| Size of Casing | From                         | To       | Size of Perforations | Number of Rows | Distance Between Centers | Method of Perforations |
|----------------|------------------------------|----------|----------------------|----------------|--------------------------|------------------------|
| 5"             | 8460*<br><del>6475</del> ft. | 6682 ft. | 60 Mesh 2" slots     | 14             | 6"                       | Pacific undercut       |
|                | ft.                          | ft.      |                      |                |                          |                        |
|                | ft.                          | ft.      |                      |                |                          |                        |
|                | ft.                          | ft.      |                      |                |                          |                        |

MAP MAP BOOK CARDS BOND FORMS  
114 121

Electrical Log Depths 525' - 6687' (Attach Copy of Log)  
see history

**DIVISION OF OIL AND GAS**

**History of Oil or Gas Well**

**LOS ANGELES, CALIFORNIA**

OPERATOR THE WARE ASSOCIATED OIL COMPANY FIELD ALISO CANYON FIELD

Well No. PORTER 39, Sec. 28, T. 3 N, R. 16 W, S. 8.3 B. & M.

Signed R. J. Cund  
Title Agent  
(President, Secretary or Agent)

Date October 1947

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.

Date

1947

LOCATION: 1779.49' South and 4142.51' West of Station #84  
ELEVATION: 2601.63' derrick floor.

- 5/16-28 Graded road and rig site.
- 5/23-6/1 Idle.
- 6/2 Dog cellar.
- 6/3 Built foundation forms.
- 6/4-5 Poured foundation concrete.
- 6/6-10 Erected derrick.
- 6/11-13 Built casing racks.
- 6/14-25 Idle.
- 6/26-28 Rigged up rotary.
- 6/29 Spudded 12-1/4" hole at 6:00 P.M. Drilled to 60'.
- 6/30 Drilled 12-1/4" hole from 60' to 496'.
- 7/1 Opened 12-1/4" hole to 17-1/4" from 0' to 440'. Drilled 12-1/4" hole from 496' to 676'.
- 7/2 Opened 12-1/4" hole to 17-1/4" from 440' to 538'. Ran and cemented 13-3/8", 54.5# Youngstown T&G casing at 500' with 350 sacks Colton Construction cement in bulk, all treated with quick setting chemical. Lost circulation after approximately 300 sacks had been displaced around shoe. Did not bump plugs. Time 7:00 P.M. Pumped in 10 sacks around top of casing.
- 7/3 Landed 13-3/8" casing. Cleaned out to 676'.
- 7/4-18 Drilled 11" hole from 676' to 4901'. Ran Eastman oriented drill pipe survey at 4835'.
- 7/19-20 Drilled 11" hole from 4901' to 5039'. Set Eastman removable whipstock at 5022'. Drilled by whipstock to 5039'.
- 7/21 Drilled 11" hole from 5039' to 5088'. Pulled whipstock and opened rat hole to 11" from 5027' to 5039'.

DIVISION OF OIL AND GAS NOV 8 - 1947

History of Oil or Gas Well LOS ANGELES, CALIFORNIA

OPERATOR ~~THE WATER ASSOCIATED OIL COMPANY~~ FIELD ~~ALISO CANYON FIELD~~

Well No. ~~FORSTER 39~~, Sec. ~~26~~, T. ~~3 N~~, R. ~~15 W~~, S. ~~8~~ B. & M.

Signed *R. J. Carl*  
Title *Agent*  
(President, Secretary or Agent)

Date ~~October 1947~~

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.

|   |  |
|---|--|
| <p>1947<br/>7/22-24</p> <p>7/25-8/8<br/>8/9<br/>8/10<br/>8/11<br/>8/14<br/>8/15-21</p> <p>8/22</p> <p>8/23<br/>8/24</p> <p>8/25</p> | <p>Drilled 11" hole from 5088' to 5409'. Set Eastman removable whipstock at 5409' and drilled 7-1/2" hole to 5429'. Opened rat hole to 11" and continued to 5439'.</p> <p>Drilled 11" hole from 5439' to 7380'. Stuck drill pipe at 7359'.</p> <p>Spotted oil and worked drill pipe.</p> <p>Worked stuck drill pipe loose. Conditioned mud.</p> <p>Drilled 11" hole from 7380' to 7793'. Beamed tight hole from 6418' to 7713'.</p> <p>Drilled 11" hole from 7793' to 7888'. Beamed tight hole from 7705' to 7715'.</p> <p>Drilled 11" hole from 7888' to 8475'. Ran Schlumberger electric log.</p> <p>Started running 7" casing.</p> <p>Ran and cemented 7", 23, 26, and 29# Youngstown Speedtite casing at 8475' with 500 sacks Colton High Temperature cement. Bottom 1207' is 29# E-80; then 1493' 26# E-80; then 1705' 23# E-80; then 4010' 23# J-55; and balance 29# E-80. Pressure increased from 800 to 1000# when plugs bumped.</p> <p>Standing cemented.</p> <p>Located top of hard cement at 8428'. Cleaned out cement to 8475' and drilled 5' for water shut-off test.</p> <p>Ran Johnston Tester on 2-7/8" drill pipe with 750' water cushion and set packer at 8442' with tail pipe to 8458'. Opened 3/8" bean at 12:15 P.M. Had medium strong blow with gas to surface in 4 minutes and fluid to surface in 43 minutes. After flowing water cushion, well produced clean oil for 45 minutes, then died. Sample oil out 0.5% water and 1.5% mud and sand. Well remained dead until packer was pulled loose at 6:15 P.M. after being open 6 hours. Recovered 6370' of gassy oil and 1911' slightly muddy water. Sample 3930' from bottom out 56% and tested 300 g/g. Sample 2240' from bottom tested 410 g/g. Sample at tester tested 424 g/g. Test of water shut off witnessed but not approved by the Division of Oil and Gas Engineer.</p> |
|---|--|

DIVISION OF OIL AND GAS

NOV 8 - 1947

History of Oil or Gas Well

LOS ANGELES, CALIFORNIA

OPERATOR FINE WATER ASSOCIATED OIL COMPANY FIELD ALISO CANYON FIELD

Well No. PORTER 39, Sec. 28, T. 3 N, R. 16 W, S. 3 B. & M.

Signed R. J. Carl

Date October 1947

Title gent

(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 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.

Date

1947  
8/26  
8/27

Made up 2-1/2" tubing to re-cement 7" casing. Conditioned mud. Ran Baker Retrievable Retainer on 2-1/2" tubing and set at 5425'. Applied pressure and formation began taking fluid at 3300# and broke down to 2500#. Opened circulating port and mixed 200 sacks Colton High Temperature cement. Closed circulating port and squeezed an estimated 160 sacks below retainer when pumps failed at 4300#. Bled back approximately 27 sacks of cement. Tried to back scuttle excess cement but could not open Baker Retainer. Pulled 10 stands tubing dry and remainder wet. Total of 26 stands filled with cement. Time 6:30 P.M. Located top of cement in 7" casing at 5325'. (Total of 67 sacks left in tubing and casing). International Bulk Methods. Cleaned out hard cement from 5325' to 5480'.

8/28  
8/29

Ran Johnston Tester on 2-7/8" drill pipe with 790' water cushion and set packer at 5442'. Opened 3/8" bean at 4:05 P.M. Had medium strong blow with gas to surface in 4 minutes and fluid to surface in 40 minutes. Well flowed oil and gas for 2 minutes then had a strong gas blow for 55 minutes. Well made a 30 minute flow of oil, gas, and water cushion after being open 2 hours 15 minutes, then remained dead until midnight.

8/30

On test of water shut off, well remained dead until packer was pulled loose at 6:00 A.M. after being open 13 hours 55 minutes. Well started to flow when packer was pulled loose. Pulled 30 dry stands before finding fluid, which consisted of mostly oil and gas. A sample 3980' from bottom cut 6% mud and 2% water. Sample at tester cut 1% mud; 1% water; and 60% emulsion. Could not recover sufficient water for salinity. Test of water shut off witnessed and approved by Division of Oil & Gas. Changed to low water loss emulsion base mud.

8/31-9/3

Cored 6" hole from 5480' to 5639'. Ran Schlumberger electric log at 5621'.

DIVISION OF OIL AND GAS

History of Oil or Gas Well

LOS ANGELES, CALIFORNIA

OPERATOR WIDE WATER ASSOCIATED OIL COMPANY FIELD ALISO CANYON

Well No. POINER 39, Sec. 28, T. 3 N, R. 16 W, S.E. B. & M.

Signed R. J. Carl

Date October 1947 Title Agent  
(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 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.

1947

9/4  
9/5

Cored 6" hole from 8639' to 8687'. Ran Schlumberger electric log.  
Reamed 6" hole from 8475' to 8687'. Ran 255' of 5", 17.934 J-55 inserted liner, including 222', 30 Mesh perforated and landed at 8682'. Perforations are 2" slots, 6" centers, 14 rows with 6" undercut. Inserting in Ventura thread by Pacific.

9/6

Ran 2-7/8", 6.5# J-55 round thread upset tubing, including 270' of 2-3/8", 4.7# tubing and hung at 8575'. Installed Amas tree and circulated out and with oil.

9/7

Swabbed and well started flowing at 12:00 noon. In 18 hours to 6:00 P.M. 9/8/47 well flowed 514 barrels gross fluid (includes 310 barrels circulating oil); 500 barrels approximate net oil; out 3%; 48/64 bean; 23.6 gravity; 125# tubing pressure; 0# casing pressure 160 M.C.F. gas rate.

9/8

In 18 hours well flowed 379 barrels gross fluid; 374 barrels approximate net oil; out 1.4%; 48/64 bean; 21.4 gravity; 50# tubing pressure; 0# casing pressure. Well died and was shut in after producing 18 hours. 150 M.C.F. gas.

9/9

In 17 hours well flowed 242 barrels gross fluid; 235 barrels approximate net oil; out 3%; 32/64 bean; 21.4 gravity; 200# tubing pressure; 0# casing pressure; 105 M.C.F. gas. Well died at 11:00 P.M.

9/10

Shut in. Tubing pressure 600#; casing pressure 0#.

9/11

Shut in. Tubing pressure 600#.

9/12-15

Shut in. Tubing pressure 625#.

9/16

In 16 hours well flowed 147 barrels gross fluid; 145 barrels approximate net oil; 0.2% out; 11/64 bean; 500# tubing pressure; 0# casing pressure.

SUBMIT IN DUPLICATE  
STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS RECEIVED  
NOV 8 - 1947

History of Oil or Gas Well

LOS ANGELES, CALIFORNIA

OPERATOR TIDE WATER ASSOCIATED OIL COMPANY FIELD ALISO CANYON FIELD

Well No. POHNER 73, Sec. 25, T. 3 N, R. 16 W, S. 1, B. & M.

Signed R. J. Carl  
Title Agent

Date October 24, 1947  
(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 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.

| Date        | Gross Fluid | Approx. Hot Oil | Grav | Gravity | Dean  | Subing Pressure | Casing Pressure | Gas MCF | Hours On |
|-------------|-------------|-----------------|------|---------|-------|-----------------|-----------------|---------|----------|
| 9/17        | 175         | 174             | 0.6% | --      | 11/64 | 450#            | --              | 64      | 24       |
| 9/18        | 124         | 123             | 0.6% | --      | 9/64  | 490#            | --              | 43      | 24       |
| 9/19        | 123         | 122             | 0.8% | --      | 9/64  | 475#            | --              | 47      | 24       |
| 9/20        | 123         | 122             | 0.8% | --      | 9/64  | 475#            | --              | 49      | 24       |
| 9/21        | 123         | 122             | 0.8% | --      | 9/64  | 475#            | 100#            | 45      | 24       |
| 9/22        | 113         | 112             | 1.0% | --      | 9/64  | 475#            | 150#            | 44      | 24       |
| 9/23        | 120         | 109             | 1.0% | --      | 9/64  | 475#            | 200#            | 49      | 24       |
| 9/24        | 134         | 133             | 0.6% | --      | 9/64  | 475#            | 350#            | 53      | 24       |
| 9/25        | 113         | 112             | 0.6% | --      | 9/64  | 480#            | 300#            | 50      | 24       |
| 9/26        | 123         | 122             | 0.6% | --      | 9/64  | 475#            | 350#            | 50      | 24       |
| 9/27        | 123         | 122             | 0.6% | --      | 9/64  | 475#            | 400#            | 49      | 24       |
| 9/28        | 123         | 122             | 0.2% | --      | 9/64  | 475#            | 400#            | 45      | 24       |
| 9/29        | 119         | 118             | 0.4% | --      | 9/64  | 475#            | 460#            | 41      | 24       |
| 9/30        | 116         | 117             | 0.4% | --      | 9/64  | 500#            | 500#            | 38      | 24       |
| 10/1        | 113         | 112             | 0.4% | --      | 9/64  | 475#            | 550#            | 38      | 24       |
| 10/2 - 10/6 | Shot In.    |                 |      |         |       |                 |                 |         |          |
| 10/7        | 98          | 97              | 1.0% | --      | 9/64  | 600#            | 750#            | 35      | 17       |

CASING RECORD

13-3/8", 54.5# C 500'  
7", 23, 26, 29# C 475'  
255' - 5", 17.93# L 8682' Top 8427' Perf. 8460'-8682'.

TUBING RECORD

2-7/8", 6.5# lbc. 270' 2-3/8", 4.7# B 1575'.

| MAP | MAP BOOK | CARDS | BOND | FORMS |     |
|-----|----------|-------|------|-------|-----|
|     |          |       |      | 114   | 121 |
|     |          |       |      |       |     |

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS  
RECEIVED  
NOV 8 - 1947

LOG AND CORE RECORD OF OIL OR GAS WELL  
LOS ANGELES, CALIFORNIA

Operator TIDE WATER ASSOCIATED OIL COMPANY Field ALISO CANYON FIELD  
Well No. PORTER 39 Sec. 28, T. 3 N, R. 16 W, S. 33 B. & M.

FORMATIONS PENETRATED BY WELL

| DEPTH TO         |                     | Thickness | Drilled or Cored | Recovery | DESCRIPTION                    |
|------------------|---------------------|-----------|------------------|----------|--------------------------------|
| Top of Formation | Bottom of Formation |           |                  |          |                                |
| 0'               | 6102'               |           | Drilled          |          | Sand and shale                 |
| 6102'            | 6116'               |           | "                |          | Shale                          |
| 6116'            | 7531'               |           | "                |          | Sand and shale                 |
| 7531'            | 7545'               |           | "                |          | Hard sandy shale               |
| 7545'            | 8227'               |           | "                |          | Sand and shale                 |
| 8227'            | 8273'               |           | "                |          | Shale                          |
| 8273'            | 8458'               |           | "                |          | Sand and shale                 |
| 8458'            | 8480'               |           | "                |          | Shale                          |
| 8480'            | 8518'               |           | Cored            |          | Oil sand                       |
| 8518'            | 8572'               |           | "                |          | Oil sand and siltstone         |
| 8572'            | 8617'               |           | "                |          | Siltstone and mottled oil sand |
| 8617'            | 8639'               |           | "                |          | Siltstone                      |
| 8639'            | 8687'               |           | "                |          | Oil sand and siltstone         |

| MAP | MAP BOOK | CARDS | BOND | FORMS |     |
|-----|----------|-------|------|-------|-----|
|     |          |       |      | 114   | 121 |

NOV 8 - 1947

DIVISION OF OIL AND GAS

LOS ANGELES, CALIFORNIA

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator TIME WATER ASSOCIATED OIL COMPANY Field ALISO CANYON FIELD

Well No. PORTER 39 Sec. 22, T. 3 N, R. 16 W, S. B. & M.

FORMATIONS PENETRATED BY WELL

| DEPTH TO                          |                     | Thickness | Drilled or Cored | Recovery | DESCRIPTION  |
|-----------------------------------|---------------------|-----------|------------------|----------|--|
| Top of Formation                  | Bottom of Formation |           |                  |          |  |
| <u>6" Reed Conventional Cores</u> |                     |           |                  |          |  |
| 8480'                             | 8499'               |           |                  | 13'      | 1' 6" Brown shale<br>3' 0" Oil sand, brown grading downward to light brown, fine grained and friable. Good cut and odor.<br>8' 6" Very light brown, micaceous and poorly sorted, fine and medium grains. Fair cut and odor.  |
| 8499'                             | 8518'               |           |                  | 15'      | 2' 0" Grey micaceous siltstone, no cut or odor.<br>0' 6" Grey shale<br>0' 6" Fine oil stained sand. Poor cut and odor.<br>1' 0" Grey siltstone, no cut or odor<br>2' 0" Grey shale<br>7' 0" Oil stained siltstone. Fair cut and odor.  |
| 8518'                             | 8536'               |           |                  | 18'      | 2' 0" Grey siltstone. No cut or odor.<br>4' 0" Med. to fine grained poorly sorted dark brown oil sand. Good cut and odor.<br>1' 0" Grey hard med. fine sand. Looks to well cemented to be wet.<br>3' 0" Oil sand as above.<br>3' 0" Oil stained siltstone. Fair cut and odor.<br>1' 0" Sandy siltstone. Good cut and odor.<br>2' 3" Med. grained, poorly sorted, dark brown friable oil sand. Good cut and odor.<br>2' 4" Very fine grained oil sand. Good cut and odor. |
| 8536'                             | 8554'               |           |                  | 18'      | 1' 3" Light grey shale.<br>11' 6" Firm, hard oil stained sandy siltstone. Fair good cut and odor.<br>1' 6" Shell<br>5' 0" Firm very sandy oil saturated siltstone. Good cut and odor.  |
| 8554'                             | 8572'               |           |                  | 18'      | 18' 0" Hard, dark, grey, sandy siltstone. No cut and odor.   |

NOV 8 - 1947

DIVISION OF OIL AND GAS

LOS ANGELES, CALIFORNIA

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator FINE WATER ASSOCIATED OIL COMPANY Field ALISO CANYON FIELD

Well No. PORTER 39 Sec. 28, T. 3 N, R. 16 W, S.E. B. & M.

FORMATIONS PENETRATED BY WELL

| DEPTH TO                         |                     | Thickness | Drilled or Cored | Recovery | DESCRIPTION   |
|----------------------------------|---------------------|-----------|------------------|----------|---|
| Top of Formation                 | Bottom of Formation |           |                  |          |   |
| <u>6" Bead Conventional Core</u> |                     |           |                  |          |   |
| 8572'                            | 8590'               |           |                  | 10'      | 9' 6" Firm to hard, dark, grey and oil stained sandy siltstone with bottom 1' 6" very sandy and oil saturated. No--good cut and odor.   |
| 8590'                            | 8608'               |           |                  | 14'      | 0' 6" Shell with considerable shearing.<br>14' 0" Firm to very hard, fine to coarse, poorly sorted mottled oil sand and grey sand. No--fair cut and odor. Approximately 50% of core may be classified as a shell. |
| 8608'                            | 8621'               |           |                  | 8'       | 2' 6" Shell.<br>3' 0" Firm, fine to coarse, poorly sorted mottled oil sand and grey sand. No--fair cut and odor.  |
| 8621'                            | 8639'               |           |                  | 17'      | 2' 3" Firm, fine, silty oil sand. Good cut and odor.<br>0' 3" Shell.<br>4' 0" Shell.<br>12' 0" Firm, oil saturated, very sandy, biscuity siltstone, generally good cut and odor.                                  |
| 8639'                            | 8657'               |           |                  | 18'      | 1' 0" Shell.<br>6' 6" Firm, oil saturated, very sandy siltstone, generally good cut & odor.<br>1' 6" Shell.<br>10' 0" Firm, dark grey sandy siltstone with occasional oil stains, No--to fair cut and odor.       |
| 8657'                            | 8675'               |           |                  | 13'      | 2' 6" Fairly hard, dark, grey, sandy siltstone with occasional oil stain, generally no cut and odor.<br>1' 6" Shell.<br>2' 6" Firm, med. pale oil sand. Fair cut and good odor.                                   |
| 8675'                            | 8687'               |           |                  | 7'       | 0' 3" Shell.<br>0' 9" Oil sand as above.<br>5' 0" Shell.<br>7' 0" Firm to hard medium grey sand, no cut or odor.  |

MAP  
MAP BOOK  
CARDS  
BOND  
FORMS  
114 121

## DIVISION OF OIL AND GAS

Report on Test of Water Shut-off  
(FORMATION TESTER)

No. T 1-47113

Los Angeles 15, Calif. September 4, 1947

Mr. R. S. Curl

Los Nietos, Calif.

Agent for TIDE WATER ASSOCIATED OIL COMPANY

DEAR SIR:

Your well No. "Porter" 39, Sec. 28, T. 3 N., R. 16 W., S. B. B. & M. Aliso Canyon Field, in Los Angeles County, was tested for water shut-off on August 30, 1947. Mr. J. L. White, Inspector, designated by the supervisor, was present as prescribed in Sec. 3222 and 3223, Ch. 93, Stat. 1939; there were also present W. R. Keyte, Engineer and M. Smith, Drilling Foreman.

Shut-off data: 7 in. 23, 26, / lb. casing was cemented at 8475 ft. on August 26, 1947 in 11" hole with 200 sacks of cement of which 67 sacks was left in casing. Casing record of well: 13-3/8" cen. 500'; 7" cen. 8475', W.S.O.

Reported total depth 8480 ft. Bridged with cement from xxx ft. to xxx ft. Cleaned out to 8480 ft. for this test. A pressure of xxx lb. was applied to the inside of casing for xxx min. without loss after cleaning out to xxx ft. A Johnston tester was run into the hole on 2-7/8 in. drill pipe, with 790 ft. of water cushion, Aug. 29 and packer set at 8442 ft. with tailpiece to 8458 ft. Tester valve, with 3/8" bean, was opened at 4:05 p.m. and remained open for 13 hr. and 55 min. During this interval there was a strong blow for 20 minutes (gas in 4 minutes); a medium heading blow for 20 minutes; mud, water and oil for 2 minutes; gas for 20 minutes; heading blows for 98 minutes; clean oil for 30 minutes; and no blow for the balance of the test.

INSPECTOR J. R. THOMAS VISITED THE WELL AT 8:30 P.M. ON AUGUST 25, 1947, TO 12:45 A.M., AUGUST 26, 1947, AND MR. W. R. KEYTE, ENGINEER REPORTED THE FOLLOWING:

1. An 11" rotary hole was drilled from 500' to 8475'.
2. On August 23, 1947, 7" 23 lb., 26 lb. and 29 lb. casing was cemented at 8475' with 500 sacks of cement.
3. The top of the cement was located at 8380' and was drilled out to 8475'.
4. A 6" rotary hole was drilled from 8475' to 8480'.
5. A Johnston tester was run into the hole on 2-7/8" drill pipe with 750' of water cushion and packer set at 8442'.
6. The tester valve was opened at 12:15 p.m. and remained open for 6 hours. During this interval there was a medium strong blow for 30 minutes, with gas to the surface in 4 minutes and fluid to the surface in 43 minutes; the well flowed 45 minutes and died after which there was a slight blow of gas for the balance of the test.

THE INSPECTOR NOTED THE FOLLOWING:

1. A sample of oil taken from the top of the 2-7/8" drill pipe showed a cut of 1.0% mud, 0.5% sand and 0.5% water.
2. A fluid sample taken from 3790' above the bottom of the drill pipe tested 13.9 gravity, cutting 2% mud, 0.2% sand, and 56% water. The water tested 300 grains of salt per gallon.
3. The lower 1930' of fluid was slightly muddy gas-cut water.
4. Water filtered from fluid samples taken from 1650' above the bottom and at the bottom of drill pipe tested 410 and 424 grains of salt per gallon, respectively.
5. The recording pressure bomb chart showed that the tester valve was open 6 hours.

The operator decided to recement.

R. D. BUSH, State Oil and Gas Supervisor

By (CONTINUED ON PAGE 2) Deputy



STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

**DIVISION OF OIL AND GAS**

Report on Test of Water Shut-off

No. T 1-47113

OR

Page 2

Special Report on Operations Witnessed

TIDE WATER ASSOCIATED OIL COMPANY

Well No. "Porter" 39, Sec. 28, T. 3 N., R. 16 W., S. E. B. & M.,

INSPECTOR J. L. WHITE ARRIVED AT THE WELL AT 9:30 A.M. ON AUGUST 30, 1947, AND MR. KEYTE REPORTED THE FOLLOWING:

1. On August 26, 1947, the 7" casing was recemented at 8475' with 200 sacks of cement, of which 133 sacks of cement was squeezed away at a final pressure of 4300 lb.
2. Hard cement was drilled out from 8325' to 8480'.
3. A Johnston tester was run as noted above.

THE INSPECTOR NOTED THE FOLLOWING:

1. Gassy oil was found throughout the length of the drill pipe.
2. A sample of the fluid taken 3525' above the bottom of the drill pipe tested 94% oil, 4% mud and 2% water.
3. A sample taken 60' above the bottom of the drill pipe tested 39% oil, 60% emulsion and 1% water.
4. The recording pressure bomb chart showed that the tester valve was open throughout the test.

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

THE SHUT-OFF IS APPROVED.

cc - T. L. Wark  
Jos. Jensen  
W. E. Parkes (2)

W  
/

JLW:ES

R. D. BUSH

State Oil and Gas Supervisor

By E. H. Mussen Deputy

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

**DIVISION OF OIL AND GAS**

**Special Report on Operations Witnessed**

No. T 1-46963

Los Angeles 15, Calif. July 25, 19 47

Mr. R. S. Curl  
Los Nietos, Calif.  
Agent for TIDE WATER ASSOCIATED OIL COMPANY

DEAR SIR:

Operations at your well No. "Porter" 39 Sec. 28, T. 3 N., R. 16 W., S. B. B. & M.,  
Aliso Canyon Field, in Los Angeles County, were witnessed by  
Paul Betts, Inspector, representative of the supervisor,  
on July 21, 1947. There was also present S. N. Peek, Driller;  
G. Kingsbury, Helper.  
Casing Record 13-3/8" cem. 500'. T. D. 5224'. Junk XXX

The operations were performed for the purpose of inspecting blowout prevention equipment and installation.

The inspector arrived at the well at 11:55 a.m. and Mr. Peek reported:

1. A 17" rotary hole was drilled from the surface to 500'.
2. On July 2, 1947, 13-3/8", 54 lb. casing was cemented at 500' with 350 sacks of cement.
3. An 11" rotary hole was drilled from 500' to 5224'.

THE INSPECTOR NOTED THAT THE WELL WAS EQUIPPED WITH THE FOLLOWING BLOWOUT PREVENTION EQUIPMENT:

1. A Shaffer double cellar control gate for closing in the well with the drill pipe out of the hole and for closing around the 4-1/2" drill pipe.
2. The controls for the above equipment were located outside the derrick.
3. A 3" mud fill-up line with a 3" high pressure Hamer plug into the 13-3/8" casing below the above equipment.
4. An 8-5/8" shut-off gate on the mud discharge line.

The inspection was completed at 12:30 p.m.

THE BLOWOUT PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

PWB:OH *B/T*

cc- T. L. Wark  
Jos. Jensen  
Wm. E. Perkes (2)

R. D. BUSH  
State Oil and Gas Supervisor

By *E. H. Mussen* Deputy  
*ma*

STATE OF CALIFORNIA  
 DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P. 1-43573

Los Angeles 15, Calif. July 1, 1947

Mr. R. S. Carl

Los Nietos, Calif.

Agent for TIDE WATER ASSOCIATED OIL COMPANY

DEAR SIR:

Your proposal to drill Well No. "Porter" 39,  
 Section 28, T. 3 N., R. 16 W., S. E. B. & M., Aliso Canyon Field, Los Angeles County,  
 dated June 25, 1947, received June 27, 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:

THE NOTICE STATES:

"The well is 1779.49 feet E. and 4142.81 feet W. from Station #84  
 The elevation of the derrick floor above sea level is approx. 2602 feet.  
 We estimate that the first productive oil or gas sand should be encountered at a depth of  
 about \_\_\_\_\_ feet."

PROPOSAL:

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

| Indicated: | Size of Casing | Weight        | Grade and Type      | Depth | Landed or Cemented |
|------------|----------------|---------------|---------------------|-------|--------------------|
|            | 13-3/8"        | 54.5#         | J-55                | 500'  | Cemented           |
|            | 7"             | 23#, 26#, 29# | J-55 N-80 Speedtite | 8425' | Cemented           |
|            | 5"             | 18#           | J-55 inserted       | 8675' | 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. 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. Blowout prevention equipment, sufficient to provide a complete close-in of the well under pressure at any time, shall be installed.
3. Any hole to be sidetracked in any oil or gas zone shall be filled with cement, if possible.
4. THIS DIVISION SHALL BE NOTIFIED AS FOLLOWS:
  - (a) To inspect the installed blowout prevention equipment before drilling below 1500'.
  - (b) To witness a test of the effectiveness of the 7" shut-off.

CLB:OK

cc- T. L. Wark  
 Joe. Jensen  
 Wa. E. Perkes

R. D. BUSH  
 State Oil and Gas Supervisor

By CA Munn Deputy

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS  
RECEIVED

037-00726

DIVISION OF OIL AND GAS

JUN 27 1947 10

Notice of Intention to Drill New Well

This notice must be given and surety bond filed before drilling begins in LOS ANGELES, CALIFORNIA

Los Nietos Calif. June 25 19 47

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 drilling well No. "Porter" #39, Sec. 28, T. 3(S), S. 14

R. 16 W, S.B. B. & M., Aliso Canyon Field, Los Angeles County.

Lease consists of Porter Lease

The well is 1779.49 feet ~~N.~~ S. and 4142.81 feet ~~E.~~ W. from Station #84  
(Give location in distance from section corners or other corners of legal subdivision)

The elevation of the derrick floor above sea level is approx. 2602 feet.

We estimate that the first productive oil or gas sand should be encountered at a depth of about \_\_\_\_\_ feet.

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

| Size of Casing, Inches | Weight, Lb. Per Foot | Grade and Type      | Depth | Landed or Cemented |
|------------------------|----------------------|---------------------|-------|--------------------|
| 13-3/8"                | 54.5#                | A&C J-55            | 500'  | Cemented           |
| 7"                     | 23#, 26#, 29#        | J-55 N-80 Speedtite | 8425' | Cemented           |
| 5"                     | 18#                  | J-55 inserted       | 8675' | 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.

Address Box "Y" Los Nietos,

TIDE WATER ASSOCIATED OIL COMPANY

(Name of Operator)

Telephone number 420-43

By R. J. Carl Agent

ADDRESS NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

| MAP        | MAP BOOK | CARDS | BOND    | FORMS |     |
|------------|----------|-------|---------|-------|-----|
|            |          |       |         | 114   | 121 |
| 18A<br>JLW | JLW      | emb   | blanket | emb   | emb |