

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

Ventura, California

October 30, 1991

R. D. Phillips, Agent

SOUTHERN CALIFORNIA GAS COMPANY

P.O. Drawer 3249m Mail Location 22G0

Los Angeles, CA 90051-1249

Your request, dated July 24, 1991, proposing to change the designation of well(s) in Sec. 27, 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:

FROM

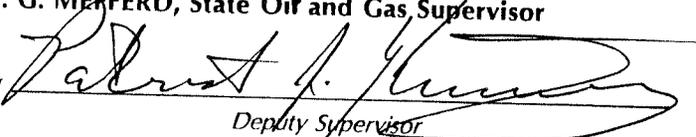
"SFZU" P-12 (037-00701)
"SFZU" P -14 (037-00703)
"SFZU" P-30 (037-00717)
"SFZU" P-31 (037-00718)
"SFZU" P-32 (037-00719)
"SFZU" P-36 (037-00723)
"SFZU" P-37 (037-00724)
"SFZU" P-45 (037-00732)
"SFZU" FF-32 (037-00686)
"SFZU" P-50A (037-22737)
"SFZU" P-68A (037-22742)
"SFZU" P-37-A (037-22046)
"SFZU" FF-32-A (037-21872)

TO

"Porter" 12 (037-00701)
"Porter" 14 (037-00703)
"Porter" 30 (037-00717)
"Porter" 31 (037-00718)
"Porter" 32 (037-00719)
"Porter" 36 (037-00723)
"Porter" 37 (037-00724)
"Porter" 45 (037-00732)
"Fernando Fee" 32 (037-00686)
"Porter 50A (037-22737)
"Porter" 68A (037-22742)
"Porter" 37-A (037-22046)
"Fernando Fee" 32-A (037-21872)

M. G. MEFFERD, State Oil and Gas Supervisor

By


Deputy Supervisor

PATRICK J. KINNEAR

OPERATOR Southern Calif Gas
 LSE & NO SF24 P-65
 MAP 250

	(1)	(2)	(3)	(4)	()	()
INTENTION	DRLC	Actv CSG	Address & convert to Accession	Actv CSG		
NOTICE DATED	3-11-55	3-3-69	9-8-72	4-27-77		
P-REPORT NUMBER	155-455	169-248	172-1073	217-143		
CHECKED BY/DATE						
MAP LETTER DATED		N/C		N/C		
SYMBOL	Q		1/4			
	REC'D	NEED	REC'D	NEED	REC'D	NEED
NOTICE	3-14-55	3-4-69	9-13-72	5-7-77		
HISTORY	4-19-55	3-0-69	12-1-72	6-30-77		
SUMMARY	4-19-55					
IES/ELECTRIC LOG						
DIRECTIONAL SURV	8-24-55					
CORE/SWS DESCRIP	8-19-55					
OTHER						
RECORDS COMPLETE	Q	Q	Q	Q		

ENGINEERING CHECK

T-REPORTS _____

OPERATOR'S NAME _____

WELL DESIGNATION _____

LOC & ELEV _____

SIGNATURE _____

SURFACE INSPECTION _____

FINAL LETTER OK _____

CLERICAL CHECK

POSTED TO 121 _____ 170 MAILED _____

FINAL LETTER MAILED _____

RELEASED BOND _____

REMARKS: _____

SUBMIT IN DUPLICATE
RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED

JUN 30 1977

History of Oil or Gas Well

SANTA PAULA, CALIFORNIA

Operator **SOUTHERN CALIFORNIA GAS COMPANY** Field or County **Aliso Canyon**
Well name and No. **PORTER #45**, Sec. _____, T. _____, R. _____, B. & M. _____
A.P.I. well No. _____ Name **P.S. Magruder, Jr.** Title **Agent**
Date **June 27,** 19 **77** (Person submitting report) (President, Secretary or Agent)

Signature *P.S. Magruder, Jr.*

P.O. Box 3249, Terminal Annex, Los Angeles, CA 90051 (213) 689-3561
(Address) (Telephone Number)

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

- | Date | Description |
|---------|---|
| 4-25-77 | Killed well using Halliburton pump truck. Took 320 barrels of 70# polymer drilling fluid. |
| 5-18-77 | Rigging up Finley Rig #D-11 and installing steel beams under derrick and sub-base. |
| 5-19-77 | Rigged up. Removed Christmas tree. Attempted to install double shaffer gate - studs on gate landed on doughnut locking studs. Reinstalled Christmas tree and secured well. |
| 5-20-77 | Installed Crossover spool and flange from 6-900 tubing head to 10-1500 flange. Installed Class III 5000# B.O.P.E. Tested blind rams, 2 7/8" rams and Hydril bag with water at 3000 psi for 20 minutes each. Tested same with nitrogen at 3000 psi for 20 minutes each. Hooked up choke and kill line. |
| 5-21-77 | Pulled tubing and measured out of hole. Laid down all production jewelry. Ran in hole with 7" casing scraper and 6 1/8" bit. Ran in to top of Baker Model "D" packer - circulated. |
| 5-22-77 | Rig and crew idle. |
| 5-23-77 | Finished running in hole with bit and scraper. Circulated hole clean, started out of hole - 8 stands dragging. Pulled to 4760' - hole tight. Pulled to 185' - pipe stuck - worked free. |
| 5-24-77 | Finished pulling out of hole. Made up DR plug. Ran in and set plug in packer at 7355'. Tested to 1500 psi for 15 minutes - O.K. Pulled out of hole. Made up Baker bridge plug, ran in and set same at 120'. Pulled out. Secured well. |
| 5-25-77 | Rigged up Alco casing jacks. Unlanded 7" casing. Cut off 10 3/4" casing. Removing cellar floor. |
| 5-26-77 | Continuing to remove cellar floor. Secured rig. |

HISTORY OF PORTER #45 - Aliso Canyon

JUN 30 1977 PAGE 2.

SANTA ANA, CALIFORNIA

- 5-27-77 Removing dirt from around conductor pipe. Cut off conductor and 10 3/4" casing. Welded on new 5000 psi casing head. Checked weld with gamma-ray device. Finished digging out cellar.
- 5-28-77 Cleaned out cellar - set rebar for cement - poured cellar floor and walls.
- 5-29-77 Rig and crew idle.
- 5-30-77 Removed forms from cellar. Using spear, relanded 7" casing at 30,000#. Set slips and installed packing. Installed seal flange and 10" x 10" spool. Tested seals to 4000 psi. Installed and testing B.O.P.E.
- 5-31-77 Attempted to test blind rams - no good. Changed bridge plug, set at 90' - retested - no good. Moved plug to 70' - tested with water, as follows:
- Blind rams with 4000 psi for 20 minutes - O.K.
 Pipe rams with 4000 psi for 20 minutes - O.K.
 Hydril bag with 3500 psi for 20 minutes - O.K.
- Rigged up NOWSCO-master valve leaking-no replacement. Shut well in.
- 6- 1-77 Attempted to test B.O.P.E. but fullbore retainer leaked. Pulled fullbore and made scraper run to 60'. Re-ran fullbore and set at 60'. Tested pipe rams to 4000 psi for 20 minutes - O.K. Tested Hydril bag to 3000 psi for 20 minutes - O.K. Both tests nitrogen. Made up Baker retrieving tool and ran in well to 2500'.
- 6- 2-77 Ran in hole with Baker DR plug catcher. Pulled DR plug. Ran in with Baker packer plucker mill. Milled slips from packer. Pulling out of hole.
- 6- 3-77 Finished pulling out of hole with Baker packer mill and Baker Model "D" packer. Ran in hole with bit and scraper. Circulated hole clean. Pulled out and laying down 2 7/8" tubing.
- 6- 4-77 Finished laying down 2 7/8" tubing and drill collars and scraper and bit. Changed pipe rams from 2 7/8" to 5 1/2". Removed flowline and installed shooting flange. Rigged up and ran GO-Wireline Services with Baker Model "F" packer at 7350' with plug in NO-GO nipple below "F" packer. Installed flowline and cleaned threads on 5 1/2" liner. Shut rig down.
- 6- 5-77 Rig and crew idle.
- 6- 6-77 Rigged up Hydro-Test and power tongs. Ran 5 1/2" 19.81# casing, hydrotesting to 5000 psi. Secured well.

JUN 30 1977

PAGE 3.

HISTORY OF PORTER #45 - Aliso Canyon

SANTA PAULA, CALIFORNIA

- 6- 7-77 Finished running 5 1/2" 19.81# liner and hydrotesting to 5000 psi for one minute. Stabbed into packer at 7350'. Rigged up H. & H. Oil Tools pressure pump and tested casing and seals to 2000 psi for 15 minutes - O.K. Removed B.O.P.E. Set slips and landed with 50,000# on packer. Hooked up B.O.P.E. lines.
- 6- 8-77 Rigged up H. & H. Oil Tool and tested 5 1/2" casing to 2000 psi. Tested upper seal on 7" casing flange for 20 minutes at 4000 psi. Removed B.O.P.E. and installed pack-off flange for 5 1/2" casing. Tested packing on flanges with 5000 psi. Rigged up B.O.P.E. and floor. Ran in and set bridge plug at 90'.
- 6- 9-77 Tested B.O.P.E. with water using H. & H. pump to 4000 psi on blind rams and pipe rams and tested Hydril bag with 3000 psi - all tests O.K. Rigged up NOWSCO and tested with nitrogen at the same pressures - O.K. Retrieved Baker bridge plug. Ran in with Archer-Reed Wireline and retrieved plug from packer. Picked up 64 joints of 2 3/8" tubing.
- 6-10-77 Ran and set Baker Model "F-1" Production Packer on Go-International wire line at 7320'. Rigged up and hydrotesting in hole with Otis Safety System. Testing tubing to 5000 psi for 1 minute.
- 6-11-77 Hydrotested in hole and changed collars. Spaced tubing and landed with 8000# on packer. Removed B.O.P.E. Installed Christmas tree. Tested tree to 5000 psi for 20 minutes - O.K. Changed over to lease water.
- 6-12-77 Rig and crew idle.
- 6-13-77 Archer-Reed pulled dummy from safety valve and set plug in NO-GO nipple. Tested seals and packer with 1500 psi for 20 minutes. Pulled plug. Rig released at 2:00 P.M.

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

Report on Operations

No. T 277-126

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

Santa Paula, Calif.
June 28, 1977

DEAR SIR:

Operations at well No. "SFZU" P-45, API No. 037-00732, Sec. 27, T. 3N, R. 16W,
S.B., B & M. Aliso Canyon Field, in Los Angeles County, were witnessed
on 5/20/77. Mr. P.R. Wygle, representative of the supervisor was
present from 1500 to 1630. There were also present R. Dargatz, foreman

Present condition of well: No additions to the casing record since proposal dated 4/27/77.

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 F. MATTHEWS, JR.~~
Acting, State Oil and Gas Supervisor

By John L. Harbo Deputy

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

REPORT ON PROPOSED OPERATIONS No. P 277-143

Mr. D. S. Magnider, Jr., agent
S. California Gas Co.
P.O. Box 54790 Terminal Annex
Los Angeles, Calif. 90054

Santa Paula, Calif.
May 5, 1977

DEAR SIR:

Your proposal to alter casing Well No. "SPZU" P-45,
Section 22, T. 3N, R. 16W, S.B. B. & M., Aliso Canyon Field, Los Angeles County,
dated 4/27/77, received 5/2/77, has been examined in conjunction with records filed in this office.

(037-00732)

THIS PROPOSAL IS APPROVED PROVIDED THAT:

1. The drilling fluid used shall be of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts; and a reserve supply of this material shall be kept on hand to meet any emergency.
2. Blowout prevention equipment, at least of the Division of Oil and Gas Class III, 3M rating, 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 POSTED AT THE WELL SITE PRIOR TO COMMENCING OPERATIONS.

Blanket Bond
MD:b

M. G. NEFFORD (acting)

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

By John L. Herd, Deputy

DIVISION OF OIL AND GAS
Notice of Intention to Rework Well

MAY - 8 1977

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 cancelled.

SANTA PAULA, CALIFORNIA

FOR DIVISION USE ONLY		
BOND	OGD114	OGD121
	BB ✓	✓

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 #45, API No. -, Sec. 27, 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. 8835'
- Complete casing record, including plugs and perforations:

10 3/4" cemented 505'
7" cemented 7648', total depth 8835'
WSO 7444'-7383'
perforated 7402'-7595'

- Present producing zone name SESNON Zone in which well is to be recompleted -
- Present zone pressure 2800 psi 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, kill well, install and test B.O.P.E.
- Remove tubing head and pull tubing.
- Remove 3000 psi wellhead and install 5000 psi wellhead.
- Run 5 1/2" inner casing and land on packer at 7350'.
- Run tubing and safety system and return well to gas storage.

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.S. Magruder, Jr.
(Name) (Date) 4-27-77
Type of Organization Corporation
(Corporation, Partnership, Individual, etc.)

DIVISION OF OIL AND GAS

DEC 1 1972

History of Oil or Gas Well

LONG BEACH, CALIFORNIA

OPERATOR Pacific Lighting Service Co. FIELD Aliso Canyon

Well No. SFZU P 45, Sec. 27, T. 3N, R. 16W, SB B. & M.

Date 11-30, 1972 Signed P. E. Maguire Jr.

P. O. Box 54790, Terminal Annex
 Los Angeles, CA 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.

1972
 Date

10-18 Rigged up with CPS production rig and killed well with Brine-Polymer workover fluid.

10-19 Mixed new mud, circulated, pulled packer.

10-20 Ran in hole with 6" bit and 7" scraper, circulate one hour. Ran Dia-Log Caliper Log 7600' - 0'. Dresser-Atlas Neutron Life-Time 7588' - 6700', Density Log 7592' - 7000' and Cement Bond Log 7590' - 6000'.

10-21 Ran Schlumberger casing inspection log 7596' - 499'. Ran bridge plug and set at 7437'. Ran full bore to 4251' and pressure tested interval 4251' - 7437' with 1400 psi at surface (3200 psi at 4251'). Pressure tested down casing, interval 0-4251' with 2000 psi. Set full bore at 3000'. Pressure tested interval 0-3000' with 2500 psi. Set full bore at 1597'. Attempted pressure test from 0-1597', but bottom flange of tubing head leaked at 3200 psi.

10-23 Removed BOP's and tubing head. Welded extension on 7" casing and X-rayed weld. Replaced primary and secondary packings, and re-installed old tubing head. Tested seals to 3000 psi. Installed reconditioned casing valves. Re-installed BOP's.

10-24 Shot four squeeze holes at 7393'. Ran Baker full bore to 1600' and tested annulus (0-1600') with 3000 psi. Had leak in tubing tester. Re-ran pressure test and held 3000 psi for 15 minutes. Ran full bore to 7244'. Pressure tested tubing to 4000 psi. Dropped 4 sacks of sand on bridge plug. Set full bore at 7244'. Breakdown at 2700 psi, pumped 10 cu ft/min at 3000 psi. Mixed 150 sacks (172 cu ft) of Class G cement with 0.1% retarder. Final cementing pressure was 3250 psi.

SFZU P 45 History (cont'd)

Page 3

1972

10-31 Removed BOP's and installed tree.

(cont'd) Rucker-Shaffer tested seals on donut sleeve. Held 3000 psi below donut sleeve. Held 2900 psi above donut sleeve. Pressure tested control line test port with nitrogen at 4500 psi. Released rig.

11-1 Unloaded 172 bbls. workover fluid with nitrogen into Baker tank. Waiting pipeline hookup.

DIVISION OF OIL AND GAS
RECEIVED

DEC 1 1972

LONG BEACH, CALIFORNIA

1972

- 10-26 Drilled out cement. Found top at 7254'. Calculated cement behind pipe was 144 cu ft.
Pressure tested casing with 1400 psi.
Ran Johnston tester and shot four holes at 7383'. Set packer at 7290', bottom of tool at 7315'. Opened tool for one hour. Strong blow for 30 minutes, light blow for remainder of test. No fluid loss in annulus.
Finished pulling Johnston tester. Had approximately 120' fluid rise in tubing.
- | | |
|------------------------------|----------|
| Initial hydrostatic pressure | 3265 psi |
| Initial flowing pressure | 83 psi |
| Final flowing pressure | 83 psi |
| Final hydrostatic pressure | 3251 psi |
- WSO approved by G. Redingham of DOG.
Ran in hole with full bore to 7240' to squeeze holes at 7383'. Breakdown with 1-1/2 cu ft/min at 3000 psi. Mixed 50 sacks cement (57 cu ft). Final cementing pressure was 3200 psi. Drilled out cement from 7254' to 7389'. Calculated cement behind pipe was 30 cu ft.
- 10-27 Pressure tested casing to 1400 psi (4700 psi BHP). Pulled bridge plug from 7437'.
Ran Dresser-Atlas cement bond log from 7595' - 7300'. Jet perforated with Go-International DML XVIII with four shot per foot at the following: 7520' - 7516' (4'), 7500' - 7490' (10'), 7474' - 7468' (6'), 7464' - 7446' (18') and 7428' - 7402' (20').
- 10-28 Ran in hole with bit and scraper. Circulated for 1-1/2 hours. Ran Baker Model D packer on wireline; set at 7348'.
- 10-30 Ran approximately 6300' of 2-7/8" tubing with Baker Locator Sub and five seal nipples for model D packer, Page safety valve, Otis XO sliding side door, 4 Camco gas lift valves, and 1/4" steel control line. Tested steel line at surface, filled line with oil at 730', spliced and tested line at 730', and tested line at 4000' with 5000 psi. Hydrotested 2-7/8" tubing with 5000 psi.
- 10-31 Ran remaining tubing. Hydrotested 2-7/8" tubing and pressure tested control line with nitrogen at 5000 psi. Landed donut with 12,000 lb set down weight. Page safety valve at 7348' - 7352', Camco mandrel with 1/4" BK valve 975 psi at 7309' - 7316', Otis sliding sleeve 7271' - 7274', Camco mandrel with 1/4" BK valve 1000 psi at 6424' - 6431', Camco madreel with 1/4" BK valve 1025 psi at 5389' - 5397', Camco mandrel with 1/4" BK valve 1050 psi at 4190' - 4198'. Splices in 1/4" tubing were at 1053' and 6616'.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Report on Operations

SEC. 3606 WELL

No. T 172-1262

Mr. P. S. Magruder, Jr., Agent
PACIFIC LIGHTING SERVICE CO.
P.O. Box 54790, Terminal Annex
Los Angeles, CA 90054

Inglewood, Calif.
October 30, 1972

DEAR SIR:

Operations at well No. "SFZU" P-45 (037-00732), Sec. 27, T. 3N, R. 16W, S.B. B & M.
Aliso Canyon Field, in Los Angeles County, were witnessed
on Oct. 26, 1972. Mr. G. Ledingham, Engineer, representative of the supervisor was
present from 0730 to 0800. There were also present M. Melton and W. Chakanaka,
Drilling Foremen.

Present condition of well: 20" cem. 6'; 10-3/4" cem. 505'; 7" cem. 7648', cp 7393', 7444',
7510' and 7511', perf. 7383' WSO and 7390' WSO, perms. 7520'-7595'. T.D. 8835'.
Effec. depth 7600'.

The operations were performed for the purpose of testing the water shut-off with a formation
tester.

Mr. ----- reported:

THE 7" SHUT-OFF AT 7383' IS APPROVED.

GL:dr

cc Company



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

By W. L. Ingram Deputy

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P 172-1073

SEC. 3606 WELL

Mr. P. S. Magruder, Jr., Agent
PACIFIC LIGHTING SERVICE CO.
P.O. Box 54790, Terminal Annex
Los Angeles, CA 90054

Inglewood, Calif.
Sept. 19, 1972

DEAR SIR: alter casing & convert
Your proposal to to gas storage Well No. "SFZU" P-45 (037-00732)
Section 27, T. 3N, R. 16W, S.E.B. & M., Aliso Canyon Field, Los Angeles County,
dated 9/8/72, received 9/13/72 has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED blowout prevention equipment with a minimum 3000 psi working pressure shall be installed and maintained in operating condition during all stages of perforating.

ADS:dr

cc Company

Blanket Bond

delivered

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

By *W. L. Ingram*, Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS
RECEIVED

DIVISION OF OIL AND GAS

SEP 18 1972

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. September 8 19 72

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 deepening, redrilling, plugging or altering casing at Well No. 15F70" P-45 (Porter 45)
(Cross out unnecessary words)

, Sec. 27, T. 3N, R. 16W, SB B. & M.

Aliso Canyon Field, Los Angeles County.

The present condition of the well is as follows:

1. Total depth. 8835' Plug 7600'

2. Complete casing record.

10 3/4" 40.5# C505'

7" 23 & 26# C 7648, effective to 7600'.

WSO shoe, WSO 4 holes 7390'.

Jet perforations, 4 holes 7510' cemented, 4 holes 7511' cemented and 4 holes 7444'.

Gun Perforations 4 holes per foot 7520' - 7595'

Gun Perforations 4 holes per foot 7613' - 7633' cemented.

3. Last produced. June 1972 45 Bbls. 26.0 10.0%
(Date) (Net Oil) (Gravity) (Cut)

The proposed work is as follows:

Jet perforate 4-1/2" holes per foot 7412' to 7520' and re-perforate 2-1/2" holes per foot 7520' to 7595' in gas productive intervals as required to convert well to gas storage well. *After casing & convert to gas storage well.*

MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	181
		ARG	B	ARG	ARG

PACIFIC LIGHTING SERVICE COMPANY
(Name of Operator)

By A. B. Magruder Jr.

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR GETTY OIL COMPANY, Operator FIELD ALISO CANYON
 Well No. SFZU P-45, Sec. 27, T. 3N, R. 16W, S.B. B. & M.
 Date March 3, 1969 Signed C. G. Nelson
C.G. Nelson
 P.O. Box 811, Ventura, Calif. 643-2154 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.

1969

Date

HISTORY

1/15-21

C.P.S. Hoist moved in, rigged up. Rigged up swab and lubricator. Checked surface pipe and 7" casing, found pressures equalized - indicating possible casing failure at shallow depth, or packing leaking in head. Filled hole with 150 barrels salt water, circulated. Removed tree and installed B.O.P.E. Pulled tubing. Began running Johnston bridge plug; bridge plug stopped at 710'. Pulled out. Ran open ended tubing OK to 7497'. Circulated with lease water (6:30 A.M. to 3:00 P.M.) Pulled out. Ran 6" O.D. impression block OK to 850'; hit no tight spots, but reflected imprint of 7" casing stub, indicating casing possibly parted. Ran 6" bit and 7" casing scraper OK to 850'; found no tight spots. Ran Johnston bridge plug to 7300'; pulled back - set bridge plug at 7220'. Circulated 1 1/2 hours, no gas in returns. Ran Johnston Tension 7" packer to 810': Tested 7" casing for leaks at 1500#. Found break in 7" casing at 177'. Tested packoff in 7" landing head to 500# O.K. Laid down Johnston tools. Ran 2 7/8" open end tubing to 3000' and circulated. Pulled out. Pulled casing from break at 178'. Ran Bowen 7" casing cutter, cut 7" casing at 185': Reran 7" casing with Burns 7" lead seal casing bowl. Retrieved bridge plug from 7300'. Circulated 2 hours. Reset plug at 240'. Tested casing OK. Laid down bridge plug. Hydrotested tubing and gas lift equipment. Could not set packer at 7485' or 7300'. Pulled out. Found 4' pup unscrewed from MM mandrel, left MM mandrel, 30' tubing and packer in hole. Ran Midway tools, recovered all of fish. Reran tubing, set packer OK at 7485'. Installed gas lift valves and packer and moved out.

Casing Record

10 3/4" 40.5# c 505'
 7" 23 & 26# effec. to 7600'
 Casing Bowl at 185'
 WSO 4 h's 7390'*
 J.P. 4 h's (Seg) 7510'(Cmtd);
 7511' (Cmtd.) and 7444'
 G.P. 4 h/ft 7520-7595'
Ineffec. Csg. Below Retainer at 7600'
 48'-7" c 7648'
 WSO shoe at 7648'*
 G.P. 4 h/ft 7613-7633' (Cmtd.)

*Witnessed and approved by D.O.G.

DIVISION OF OIL AND GAS
RECEIVED

MAR 4 1969

INGLEWOOD, CALIFORNIA

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P. 169-248

Mr. C. G. Nelson, Agent
GETTY OIL COMPANY, OPERATOR
P. O. Box 811
Ventura, California 93002

Inglewood, Calif.
March 10, 1969

DEAR SIR: (037-00732)
Your proposal to alter casing Well No. "SFZU" P-45
Section 27 T. 3 N., R. 16 W. S.B. B. & M., Aliso Canyon Field, Los Angeles County,
dated 3/3/69, received 3/4/69, has been examined in conjunction with records filed in this office.

With reference to your notice our decision is as follows:

DECISION
THE PROPOSAL IS APPROVED.

RR:nw

cc C. G. Nelson

Blanket Bond

W/L

F. E. KASLINE, State Oil and Gas Supervisor
By *[Signature]* Deputy

DIVISION OF OIL AND GAS

MAR 4 1969

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

INGLEWOOD, CALIFORNIA

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

Ventura, Calif. March 3, 1969

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-45 (037-00732)"

(Cross out unnecessary words)

Sec. 27, 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. T.D. 8835'; Pg. 7600'
- 2. Complete casing record, including plugs:
 - 10 3/4" 40.5# c 505'
 - 7" 23, 26# effec. to 7600'
 - WSO 4 h's 7390'*
 - J.P. 4 h's (Seg.) 7510' (Cmtd); 7511' (Cmtd) and 7444'
 - G.P. 4 h/ft 7520-7595'
 - Ineffec. Casing Below Retainer at 7600'
 - 48'-7" c 7648'
 - WSO shoe at 7648'*
 - G.P. 4 h/ft 7613-7633' (Cmtd)

*Witnessed and approved by D.O.C.

~~3. Gas produced~~ Presently flowing 58 BOPD; 2 BWPD; 290 MCF
(Date) (Oil, B/D) (Water, B/D) (Gas Mcf/D)

The proposed work is as follows: Repair 7" casing (parted at 185') with Burns casing bowl.

After casing

MAP	MAP BOOK	CARDS	WORD	FORMS	
				114	121
			<i>B</i>	ARG	ARG

P.O. Box 811, Ventura, Calif.
(Address)
643-2154
(Telephone No.)

GETTY OIL COMPANY, Operator
(Name of Operator)
By *C. G. Nelson*
C.G. Nelson, Agent

Getty Oil Company

P.O. Box 811, Ventura, California 93001 | (805) 643-2154

March 3, 1969 DIVISION OF OIL AND GAS
RECEIVED

MAR 4 1969

INGLEWOOD, CALIFORNIA

Division of Oil & Gas
830 N. La Brea Avenue
Inglewood, California 90302

Gentlemen:

In reviewing the well history on our well SFZU P-45, it was determined that no Form 107 (Notice of Intention to Perform Work) had been submitted to your office outlining a recent casing repair.

On January 15, 1969 the well was entered for routine remedial work, at which time the 7" casing was found to be parted at 178'. The casing was pulled from the depth of the part, and cut at 185'. A Burns casing bowl was run with 7" casing and set at 185'.

The attached form 107 and Well History detail the work performed.

Very truly yours,

GETTY OIL COMPANY



C. G. Nelson, Agent

EJH:brm

Attachments

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

"SFZU" FF-32 (037-00686)

"Porter" 12

" P-12 (037-00701)

" 30

" P-30 (037-00717)

" 31

" P-31 (037-00718)

" 32

" P-32 (037-00719)

" 36

" P-36 (037-00723)

" 37

" P-37 (037-00724)

" 45

" P-45 (037-00732)

Sec. 28:

"Porter" 4

"SFZU" P-4 (037-00699)

" 25

" P-25 (037-00712)

" 26

" P-26 (037-00713)

" 34

" P-34 (037-00721)

" 35

" P-35 (037-00722)

" 38

" P-38 (037-00725)

" 39

" P-39 (037-00726)

" 40

" P-40 (037-00727)

" 41

" P-41 (037-00728)

" 42

" P-42 (037-00729)

" 43

" P-43 (037-00730)

" 44

" P-44 (037-00731)

" 46

" P-46 (037-00733)

" 47

" P-47 (037-00734)

"Porter-Sesnon" 42

" PS-42 (037-00753)

Sec. 34:

"Fernando Fee" 31

"SFZU" FF-31 (037-00685)

" 33

" FF-33 (037-00687)

" 34

" FF-34 (037-00688)

" 35

" FF-35 (037-00689)

"Mission-Adrian Fee" 3

" MA-3 (037-00693)

" 4

" MA-4 (037-00694)

" 5

" MA-5 (037-00695)

SUBMIT LOG IN DUPLICATE
FILL THIS BLANK IN WITH TYPEWRITER. WRITE ON ONE SIDE OF PAPER ONLY

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

WELL SUMMARY REPORT

9
DIVISION OF OIL AND GAS
RECEIVED
AUG 19 1955
LOS ANGELES, CALIFORNIA

Operator TIDE WATER ASSOCIATED OIL COMPANY Field ALISO CANYON
Well No. FORMER #25 Sec. 27, T. 3 N, R. 16 W S.E. B. & M.
Location 2500.00' S & 920.00' W of Station #84 Elevation of ground above sea level 1897.27 feet.
All depth measurements taken from top of Derrick Floor, which is 10.05 feet above 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 August 9, 1955 Signed T. E. Weaver
E. M. Burns T. E. Weaver Title Agent
(Engineer or Geologist) (Superintendent) (President, Secretary or Agent)

Commenced drilling 1-27-55 Completed drilling 5-26-55 Drilling tools Rotary
Total depth 8835' Plugged depth 7600' GEOLOGICAL MARKERS DEPTH

Junk _____

Commenced producing 6-3-55 (date) Flowing/gas lift pumping (cross out unnecessary words)

	Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
Initial production	355	20.6	0.4	150	1000	08
Production after 30 days	137	21.2	0.1	32	1100	1650

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 Drilled	Number of Sacks of Cement	Depth of Cementing if through perforations
10-3/4"	505'	0'	40.5#	New	Seamless	J-55	14"	150	
7"	7648'	0'	23#, 26#	New	Seamless	J-55 & N-80	9-7/8"	160 CF CEM. + 100 gal.	

PERFORATIONS

Size of Casing	From	To	Size of Perforations	Number of Rows	Distance Between Centers	Method of Perforations
7"	7520 ft.	7595 ft.	4 - 1/2" H/F			Gun perf. by McGullough
7"	7613 ft.	7633 ft.	4 - 1/2" H/F		Plug at 7600'	Gun perf. by McGullough
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				

DIVISION OF OIL AND GAS

History of Oil or Gas Well

DIVISION OF OIL AND GAS
RECEIVED

AUG 19 1955

LOS ANGELES, CALIFORNIA

OPERATOR TIDE WATER ASSOCIATED OIL COMPANY FIELD ALISO CANYON FIELD
 Well No. Porter #45, Sec. 27, T. 3 N, R. 16 W, S.B. B. & M.
 Date August 9, 1955, 19 Signed T. E. Weaver
P.O. Box "Y" Title T. E. Weaver, Agent
Los Nietos, California (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

1955

LOCATION: 2500.00' South and 920.00' West of Station #04.
 ELEVATION: 1897.27 Hat
 1907.32 Derrick Floor

2/28 Moving power lines and water lines.
 3/1 Grading location.
 3/2 Grading.
 3/3 Grading.
 3/4 Blasting and grading.
 3/5 Idle.
 3/6 Idle.
 3/7-11 Grading.
 3/12 Idle.
 3/13 Idle.
 3/14 Grading.
 3/15 Digging cellar.
 3/16 Digging cellar.
 3/17 Poured concrete cellar.
 3/18 Concreted 20" conductor pipe at 6'.
 3/19 Boll & Burden moving in equipment.
 3/20 Relocating power lines.
 3/21-23 Rigging up.
 3/24-26 Rigging up.
 3/27 Spudded well at 4:30 AM. Drilled 17-1/2" hole to 102' and reduced size of hole to 12-1/4", then drilled to 157'. Mud weight 70#, 60 viscosity, Gel and water.
 3/28 Drilled 12-1/4" hole from 157' to 501'. Opened 12-1/4" hole to 16" from 102' to 501'. Mud weight 73#, 50 viscosity, Gel and water.
 3/29 Drilled 16" hole from 501' to 505'. Ran and cemented 10-3/4", 40.5#, J-55 casing at 505' with 450 sacks Monolith construction cement. Last 100 sacks treated with 2% calcium chloride. Left 10 cu. ft. in casing. Had good returns to surface. Time 11:00 AM. O.W.C. Landed casing and installed cellar connection.
 3/30 Drilled 9-7/8" hole from 505' to 979'. Mud weight 76#, 45 viscosity.

OPERATOR: TIDE WATER ASSOCIATED OIL COMPANY

WELL NO.: Porter #45 - Aliso Canyon Field.

DIVISION OF OIL AND GAS
RECEIVED

AUG 19 1955

Page 2

LOS ANGELES, CALIFORNIA

1955

- 3/31 Drilled 9-7/8" hole from 979' to 1695'. Mud weight 77#, 40 viscosity.
- 4/1 Drilled 9-7/8" hole from 1695' to 2126'. Mud weight 78#, 45 viscosity, high water loss.
- 4/2 Drilled 9-7/8" hole from 2126' to 2621'. Mud weight 75#, 45 viscosity.
- 4/3 Drilled 9-7/8" hole from 2621' to 3271'. Mud weight 77#, 50 viscosity, 12.5 c.c. water loss.
- 4/4 Drilled 9-7/8" hole from 3271' to 3657'. Mud weight 75#, 50 viscosity.
- 4/5 Drilled 9-7/8" hole from 3657' to 4037'. Mud weight 75#, 36 viscosity.
- 4/6 Drilled 9-7/8" hole from 4037' to 4213'. Mud weight 75#, 38 viscosity, 5.6 c.c. water loss.
- 4/7 Drilled 9-7/8" hole from 4213' to 4356'. Mud weight 77#, 44 viscosity, 5.6 c.c. water loss.
- 4/8 Drilled 9-7/8" hole from 4356' to 4543'. Mud weight 78#, 45 viscosity, 5.4 c.c. water loss.
- 4/9 Drilled 9-7/8" hole from 4543' to 4935'. Mud weight 77#, 44 viscosity, 4.2 c.c. water loss.
- 4/10 Drilled 9-7/8" hole from 4935' to 5471'. Mud weight 78#, 42 viscosity, 4.7 c.c. water loss.
- 4/11 Drilled 9-7/8" hole from 5471' to 5726'. Mud weight 78#, 44 viscosity, 5.0 c.c. water loss.
- 4/12 Drilled 9-7/8" hole from 5726' to 5790'. Mud weight 80#, 44 viscosity, shut in 9 hours repairing engine.
- 4/13 Drilled 9-7/8" hole from 5790' to 5910'. Mud weight 80#, 45 viscosity, 5.1 c.c. water loss.
- 4/14 Drilled 9-7/8" hole from 5910' to 6055'. Mud weight 79#, 43 viscosity, 5.2 c.c. water loss.
- 4/15 Drilled 9-7/8" hole from 6055' to 6180'. Mud weight 79#, 44 viscosity, 5.2 c.c. water loss.
- 4/16 Drilled 9-7/8" hole from 6180' to 6424'. Mud weight 80#, 62 viscosity, 5.2 c.c. water loss.
- 4/17 Drilled 9-7/8" hole from 6424' to 6690'. Mud weight 80#, 47 viscosity, 5.1 c.c. water loss.
- 4/18 Ran Eastman whipstock #1 and set at 6690', facing North 20° East. Could not dig off face at 6685'. Pulled whipstock and ran 9-7/8" bit and drilled from 6690' to 6722'. Ran Eastman whipstock #2 and parted sand line. Mud weight 78#, 48 viscosity, 5.2 c.c. water loss.
- 4/19 Recovered whipstock #2 and drilled 9-7/8" hole from 6722' to 6751'. Ran Eastman whipstock #3 and set at 6751', facing North 23° East. Drilled off whipstock with 7-1/2" bit from 6751' to 6761'. Mud weight 80#, 61 viscosity, 5.4 c.c. water loss.
- 4/20 Pulled Eastman whipstock #3 and opened 7-1/2" hole to 9-7/8" from 6751'-6761'. Drilled ahead with 9-7/8" bit to 6850'. Mud weight 78#, 44 viscosity, 4.9 c.c. water loss.
- 4/21 Drilled 9-7/8" hole from 6850' to 7071'. Mud weight 79#, 45 viscosity, 5.0 c.c. water loss.
- 4/22 Drilled 9-7/8" hole from 7071' to 7158'. Mud weight 75#, 45 viscosity, 3.3 c.c. water loss.
- 4/23 Drilled 9-7/8" hole from 7158' to 7242'. Mud weight 77#, 40 viscosity, 3.0 c.c. water loss.

AUG 19 1955

LOS ANGELES, CALIFORNIA

9

OPERATOR: TIDE WATER ASSOCIATED OIL COMPANY

WELL NO.: Porter #45 - Aliso Canyon Field.

1955

- 4/24 Drilled 9-7/8" hole from 7242' to 7292'. Mud weight 76#, 38 viscosity, 3.1 c.c. water loss.
- 4/25 Drilled 9-7/8" hole from 7292' to 7401'. Mud weight 78#, 45 viscosity, 3.0 c.c. water loss.
- 4/26 Drilled 9-7/8" hole from 7401' to 7518'. Mud weight 77#, 45 viscosity, 3.0 c.c. water loss.
- 4/27 Drilled 9-7/8" hole from 7518' to 7617'. Mud weight 76#, 43 viscosity, 2.0 c.c. Water loss.
- 4/28 Drilled 9-7/8" hole from 7617' to 7640'. Ran Schlumberger electric log at 7640'. Ran bit and reamer to bottom and conditioned mud. Mud weight 76#, 45 viscosity, 2.0 c.c. water loss.
- 4/29 Corrected measurement 7648'. Laid down 4-1/2" drill pipe. Ran 7", 23 & 26#, J-55 & N-80, Youngstown, T & C casing and cemented at 7648' with 300 sacks C.H.T. pre-mixed with 300 cu. ft. Sealite and 4% gel, followed by 100 sacks Neat Hi-temp. cement. Pressure increased from 700-1200# when plugs bumped. Time 7:25 PM. B.J. Service.
- | | | | |
|----------------|--------------|-----|------|
| Casing detail: | 4667' | 23# | J-55 |
| | 2040' | 23# | N-80 |
| | 941' | 26# | N-80 |
| | <u>7648'</u> | | |
- Casing equipped with differential fillup shoe and collar, 6 centralizers and 12 scratchers.
- 4/30 Hauled out 4-1/2" and hauled in 3-1/2" drill pipe. Landed 7" casing. Standing cemented.
- 5/1 Made up 3-1/2" drill pipe. Test B.O.P. with 1200# for 15 minutes. Found top of cement at 7596'. Drilled out fillup collar at 7601' and hard cement to 7628'. Mud weight 76#, 42 viscosity, 2.3 c.c. water loss.
- 5/2 Ran Lane Wells Gamma and collar log to 7628'. Shot four jet holes at 7510' (S-8 Marker) by Lane Wells. Ran Johnston tester on 3-1/2" drill pipe and set packer at 7466' with tailpipe to 7481'. Used 1000' water cushion. Opened tester at 12:05 PM. Had strong blow with gas and cushion to surface in 5 minutes. Shut in to connect hose. Blew balance of cushion and gas for 5 minutes. Pulled tester loose at 12:15 PM. Recovered 120' net rise: top 60', oil, 28.4 gravity, no free water; bottom 60', oily mud. Charts confirmed results of test. While shut in pressure increased from 1700-2800#. Ran Baker Model "K" retainer on 3-1/2" drill pipe and set at 7480'. Formation broke down at 2400#. Took fluid at rate of 16 cu. ft. per minute. Mixed and displaced 100 sacks Victor Hi-temp. cement below retainer. Final pressure 3000#, bled to 2900#. Time 7:35 PM. B.J. Service. Backscuttled, no cement returns. Ran bit and scraper and cleaned out to top of retainer.
- 5/3 Ran Lane Wells jet gun and shot four holes at 7444' (S-6 Marker). Ran Johnston tester on 3-1/2" drill pipe and set packer at 7406' with perforated tailpipe to 7424'. Used 1000' water cushion. Opened 5/8" bean at 8:06 PM. Had faint blow for one minute, then dead for balance of one hour test. Reset packer. Had light blow for 2 minutes, then dead for 35 minutes. Recovered 30' net rise normal drilling fluid. Charts confirmed results of test.

OPERATOR: TIDE WATER ASSOCIATED OIL COMPANY.

WELL NO.: Porter #45 - Aliso Canyon Field.

DIVISION OF OIL AND GAS
RECEIVED

AUG 19 1955

Page 4

LOS ANGELES, CALIFORNIA

1955

- 5/4 Ran Johnston combination jet gun and tester on 3-1/2" drill pipe and shot four holes at 7390'. Used 1000' water cushion. Set packer at 7353' with perforated tailpipe to 7376'. Opened 3/4" bean at 5:06 AM. Had faint blow for 2 minutes then dead for balance of 1 hour test. Recovered 25' net rise of normal drilling fluid. Water shutoff witnessed and approved by Division of Oil and Gas. Ran bit and scraper, drilled out retainer at 7480' and hard cement to 7510'. Cleaned out to 7628'. Conditioned mud. Ran Lane Wells jet gun and shot four holes at 7511'.
- 5/5 Ran Johnston casing tester on 3-1/2" drill pipe with 1000' water cushion and set packer at 7470' with perforated tailpipe to 7485'. Opened 3/4" bean at 2:15 AM. Had initial puff, then dead for 5 minutes, then light to medium intermittent blow for balance of 1 hour and 50 minute test. Gas to surface in 30 minutes. Maximum rate 35 MCF/D. Recovered 1320' net rise of clean, gassy oil, Charts indicated valve open throughout test and showed pressure increased from 500-800#. Ran Baker Model "K" retainer on 3-1/2" drill pipe and set at 7450'. Formation broke down at 2500# and took fluid at rate of 8 cu. ft. per minute then broke to 1400#. Mixed 75 sacks Victor Hi-temp. cement and displaced 70 sacks below retainer. Final pressure 5000#. Time 3:35 PM. B.J. Service. Located top of cement at 7419'.
- 5/6 Drilled out cement from 7419' to 7450' and cement retainer at 7450'. Drilled out cement from 7450' to 7511'. Cleaned out from 7511' to 7628' and drilled out hard cement from 7628' to 7648'. Drilled out shoe of 7" casing and drilled ahead with 6-1/8" bit to 7653'. Ran Johnston casing tester on 3-1/2" drill pipe and attempted to set packer at 7605'. Could not set tool. Pulled tester and found parts of drilled up retainer lodged in tester. Mud weight 72#, 45 viscosity, 2.1 c.c. water loss.
- 5/7 Ran J.C.T. on 3-1/2" drill pipe with 500' water cushion and set packer at 7605' with perforated tailpipe to 7637'. Opened tester at 1:00 AM. Had light to medium steady blow throughout 2 hour and 10 minute test. Recovered 40' net rise of oily drilling fluid. Water shutoff on shoe of 7" casing witnessed and approved by Division of Oil and Gas.
- 5/8 Cored 6-1/8" hole from 7653' to 7733' with Reese conventional core barrel. Mud weight 73#, 45 viscosity, 2.2 c.c. water loss.
- 5/9 Ran J.F.T. on 3-1/2" drill pipe with 550' water cushion and set packer at 7639' with perforated tailpipe to 7690'. Hole open to 7733'. Opened 5/8" bean at 7:30 AM. Had light, steady blow with gas to surface in 8 minutes. Maximum rate 5 MCF. Had light to medium steady blow decreasing to very faint blow for balance of 2 hour and 25 minute test. Made shut in test for 20 minutes.
- Recovered 640' net rise: Top 200' Gassy oil, 13.2 gravity, 0.5% mud
90' Gassy oil, including 50% fresh water (cushion)
350' Gassy mud with some oil. No salt water
640'
- Charts showed pressure increased from 550-700# and still rising at end of shut in test. Cored 6-1/8" hole from 7733' to 7753' with Reese conventional core barrel. Mud weight 74#, 42 viscosity, 1.6 c.c. water loss.

RECEIVED

AUG 19 1955

LOS ANGELES, CALIFORNIA

9

Page 5

OPERATOR: TIDE WATER ASSOCIATED OIL COMPANY

WELL NO.: Porter #45 - Aliso Canyon Field

1955

- 5/10 Cored 6-1/8" hole from 7753' to 7813' with Reese conventional core barrel. Mud weight 7 1/2#, 44 viscosity, 1.4 c.c. water loss.
- 5/11 Cored 6-1/8" hole from 7813' to 7833' with Reese conventional core barrel and from 7833' to 7853' with Reese Draghead. Ran Schlumberger electric log at 7853'. Drilled ahead with 6-1/8" bit to 7888'.
- 5/12 Drilled 6-1/8" hole from 7888' to 8026'. Mud weight 7 1/2#, 38 viscosity, 3.0 c.c. water loss.
- 5/13 Cored 6" hole from 8026' to 8041' with Mercury diamond core barrel. Mud weight 7 1/2#, 40 viscosity, 1.6 c.c. water loss.
- 5/14 Cored 6" hole from 8041' to 8115' with Mercury diamond core barrel. Mud weight 7 1/2#, 40 viscosity, 1.6 c.c. water loss.
- 5/15 Cored 6" hole from 8115' to 8172' with Mercury diamond core barrel. Mud weight 7 1/2#, 42 viscosity, 2.2 c.c. water loss.
- 5/16 Cored 6" hole from 8172' to 8236' with Mercury diamond core barrel. Mud weight 7 1/2#, 43 viscosity, 2.2 c.c. water loss.
- 5/17 Cored 6" hole from 8236' to 8322' with Mercury diamond core barrel. Mud weight 7 1/2#, 50 viscosity, 2.2 c.c. water loss.
- 5/18 Cored 6" hole from 8322' to 8384' with Mercury diamond core barrel. Mud weight 7 0#, 40 viscosity, 3.0 c.c. water loss.
- 5/19 Cored 6" hole with Mercury diamond core barrel from 8384' to 8472'. Mud weight 7 2#, 40 viscosity, 3.0 c.c. water loss.
- 5/20 Cored 6" hole from 8472' to 8526' with Mercury diamond core barrel. Mud weight 7 1#, 38 viscosity, 2.2 c.c. water loss.
- 5/21 Cored 6" hole from 8526' to 8564' with Mercury diamond core barrel. Mud weight 7 1#, 38 viscosity, 2.0 c.c. water loss.
- 5/22 Cored 6" hole from 8564' to 8622' with Mercury diamond core barrel. Mud weight 7 2#, 42 viscosity, 3.8 c.c. water loss.
- 5/23 Cored 6" hole from 8622' to 8682' with Mercury diamond core barrel. Mud weight 7 3#, 43 viscosity, 3.0 c.c. water loss.
- 5/24 Cored 6" hole from 8682' to 8744' with Mercury diamond core barrel. Mud weight 7 2#, 42 viscosity, 2.1 c.c. water loss.
- 5/25 Cored 6" hole from 8744' to 8805'. Mud weight 7 2#, 42 viscosity, 2.1 c.c. water loss. Plugged core barrel.
- 5/26 Cored 6" hole from 8805' to 8835' with Mercury diamond core barrel. Ran Schlumberger electric log, Microlog, continuous dip meter and directional survey at 8835'. Mud weight 7 3#, 42 viscosity, 2.1 c.c. water loss.
- 5/27 Ran Halliburton tester with 500' water cushion on 3-1/2" drill pipe and set packer at 7570' with perforated tailpipe to 7604'. Opened tester at 7:30 AM. Had medium strong blow for 2 minutes when tester failed. Pulled and reran Halliburton tester as above. Opened 5/8" bean at 1:20 PM. Had medium blow for 15 minutes, decreasing to faint blow after 40 minutes, then dead for one minute. Gas blow not strong enough to register on Pitot tube. Had faint heading blow for duration of 2 hour test. Made 15 minute shut in test. Recovered 6320' net rise:

Top	1260'	Gas cut drilling fluid
	3420'	Gassy drilling fluid with trace oil
	1260'	Thin watery drilling fluid
	380'	Muddy salt water, avg. salinity 190
	6320'	e/g

Charts showed pressure increased from 3150# to 3400# during 15 minute shut in test.

AUG 19 1955

9

OPERATOR: TIDE WATER ASSOCIATED OIL COMPANY

LOS ANGELES, CALIFORNIA

WELL NO.: Porter #45 - Aliso Canyon Field

1955

- 5/28 Hung 3-1/2" drill pipe at 7760' and plugged well with 50 sacks Victor modified cement. Equalized cement at 7466'. Time 2:10 AM. Halliburton. Located top of plug at 7596' and cleaned out to 7640'. Tested with 1000# for 15 minutes. Shot four 1/2" bullet holes per foot from 7613' to 7633' by McCullough. Running tester.
- 5/29 Ran Halliburton tester with 500' water cushion on 3-1/2" drill pipe and set at 7536' with perforated tailpipe to 7570'. Opened tester at 11:40 PM (5-29-55). Had medium to light blow for 1 hour, decreasing to very faint heading blow at end of 3 hour and 10 minute test. Gas to surface in approximately 20 minutes. Blow not strong enough to register on Pitot tube. Recovered 6700' net rise of slightly gassy, watery drilling mud. Average salinity 225 g/g. Ran Baker Model "K" retainer on 3-1/2" drill pipe and set at 7600'. Formation broke down at 2500# and took fluid at rate of 12 cu. ft. per minute at 2300#. Mixed 150 sacks C.H.T. cement and displaced 130 sacks below retainer. Final pressure 5000#. Time 8:10 PM. Halliburton. Had difficulty backing up pressure in annulus with 2500#. Pressure would drop to 1800#, indicating WSO holes leaking. Backed off retainer and backscuttled 20 sacks at 7595'.
- 5/30 WSO holes at 7390' or 7444' leaking. Ran Baker Model "K" retainer on 3-1/2" drill pipe and set at 7334'. Formation broke down at 2600#. Took fluid at rate of 10 cu.ft. per minute at 2500#. Mixed 100 sacks C.H.T. cement and displaced all cement below retainer. Final pressure 3500#. Pressured annulus with 2500#. Held O.K. Time 11:00 AM. Halliburton.
- 5/31 Drilled out retainer at 7334' and circulated to 7407'. Drilled out cement from 7407' to 7444' and circulated to 7600'. Shot four 1/2" bullet holes per foot from 7520' to 7595' by McCullough. Ran bit and scraper to 7600'.
- 6/1 Laid down drill pipe, tore out B.O.P., ran 2-7/8" tubing to 7597' and circulated out mud with oil. Hung tubing at 7509'. Installed Christmas tree.
- 6/2 Started swabbing at 4:30 AM. Well began flowing by heads at 9:30 PM. Continued swabbing to 6:00 AM (6-3-55) when well started flowing steadily. Recovered approximately 305 barrels circulating oil during swabbing operations. Well flowed through a 48/64" bean, 110# tubing pressure, 0# casing pressure, producing a small amount of gas.
- 6/3 Released contractor (Bell & Burden) 8:00 AM 6-3-55. In 24 hours well flowed 376 barrels gross of which 356 barrels is formation oil, 355 barrels net oil, 0.4% cut, 20.6 gravity, 45-32/64" bean, 100/0#, 153 MCF gas, 421 GOR. Changed to 40/64" bean at 11:00 AM, to 32/64" bean at 12:00 Midnight.
- 6/4 In 24 hours well flowed 325 barrels gross, 324 barrels net oil, 0.4% cut (sand), 19.8 gravity, 32-24/64" bean, 150/0#, 131 MCF, 404 GOR. Changed to 24/64" bean at 2:00 PM.
- 6/5 In 24 hours well flowed 316 barrels gross, 315 barrels net oil, 0.2% cut (sand), 20.0 gravity, 24/64" bean, 180/380#, 126 MCF, 404 GOR.
- 6/6 In 24 hours well flowed 225 barrels gross, 225 barrels net oil, 0.1% cut (emulsion), 21.7 gravity, 24-15/64" bean, 220/680#, 75 MCF, 336 GOR. Changed to 18/64" bean at 8:00 AM and to 15/64" bean at 2:00 PM.
- 6/7 In 24 hours well flowed 145 barrels gross, 145 barrels net oil, 0.1% cut, 21.5 gravity, 12/64" bean, 300/900#, 61 MCF gas, 420 GOR. Changed from 15 to 12/64" bean at 8:00 AM.
- 6/8 In 24 hours well flowed 133 barrels gross, 133 barrels net oil, 0.1% cut, 21.4 gravity, 12/64" bean, 320/1000#, 53 MCF, 398 GOR.

DIVISION OF OIL AND GAS
 RECEIVED
 AUG 19 1955

OPERATOR: TIDE WATER ASSOCIATED OIL COMPANY

WELL NO.: Porter #45 - Aliso Canyon Field

LOS ANGELES, CALIFORNIA

9
 Page 7

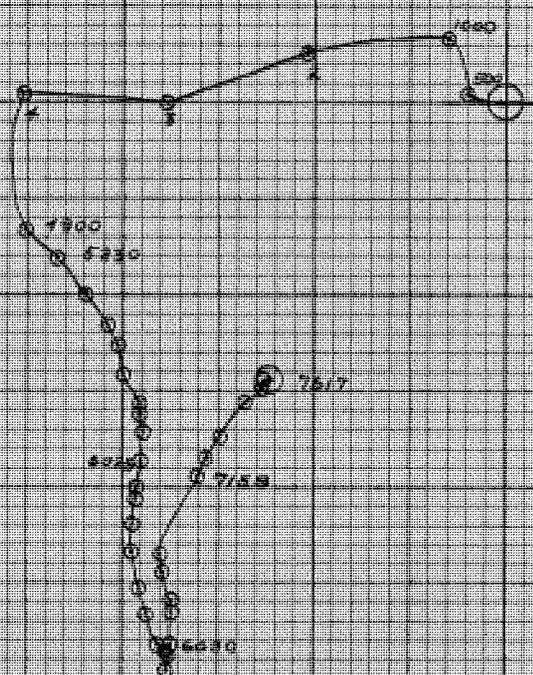
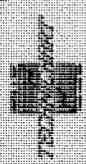
<u>1955</u>	<u>Gross</u>	<u>Net</u>	<u>Cut</u>	<u>Gravity</u>	<u>Bean</u>	<u>Tubing Pressure</u>	<u>Casing Pressure</u>	<u>MCF Gas</u>
6/9	133	133	0.1%	21.2	12/64	325#	1060#	50
6/10	134	134	0.1%	21.3	12/64	350#	1100#	44
6/11	133	133	0.1%	21.4	12/64	325#	1150#	43
6/12	129	129	0.1%	21.4	12/64	325#	1200#	52
6/13	129	129	0.1%	21.4	12/64	320#	1100#	47
6/14	125	125	0.1%	21.4	12/64	325#	1100#	36
6/15	146	146	0.1%	21.4	12/64	325#	1100#	41
6/16	142	142	0.1%	21.2	12/64	325#	1100#	40
6/17	142	142	0.1%	21.2	12/64	325#	1500#	39
6/18	137	137	0.1%	21.2	12/64	325#	1500#	37
6/19	136	136	0.1%	21.2	12/64	325#	1500#	37
6/20	135	135	0.1%	21.2	12/64	325#	1500#	43
6/21	128	128	0.1%	21.2	12/64	325#	1625#	44
6/22	128	128	0.1%	21.2	12/64	325#	1625#	45
6/23	128	128	0.1%	21.2	12/64	325#	1625#	44
6/24	128	128	0.1%	21.2	12/64	325#	1625#	39
6/25-28	Shut in for pressure bomb survey.							
6/29	109	109	0.1%	21.2	12/64	325#	1625#	42
6/30	135	135	0.1%	21.2	12/64	350#	1650#	42
7/1	135	135	0.1%	21.2	12/64	350#	1650#	42
7/2	133	133	0.1%	21.2	12/64	350#	1650#	40
7/3	137	137	0.1%	21.2	12/64	350#	1650#	42
7/4	138	138	0.1%	21.2	12/64	350#	1650#	43
7/5	134	134	0.1%	21.2	12/64	350#	1650#	46
7/6	132	132	0.1%	21.2	12/64	350#	1650#	45

CASING RECORD

10-3/4" 40.5# C 505'
 7" 23, 26# C 764.8' WSO shoe & 7390' Seg. 7444', 7511'
 4 H/F 7613'-7633'; 7520'-7595'
 Pg. 7600'

TUBING RECORD

2-7/8" H 7509'



PORTER #45
SCALE 1"=20'

SCHLUMBERGER WELL SURVEYING CORP. PHOTOCLINOMETER SURVEY

COMPANY: Tide Water Assoc. Oil Co. WELL: Porter #45
 FIELD: Aliso Canyon DATE: 5-26-55

DEPTH	DRIFT ANGLE	TRUE BEARING	DEFLECTION		LATITUDE			DEPARTURE			COORDINATES								
			HORIZONTAL FOOTAGE	VERTICAL FOOTAGE	N	S	E	W	N	S	E	W							
7617	0 30'	S54E	.72	7617.00															
7700	2 30'	N33E	4.36		3.66	.42	.59							29.96					24.70
7800	6 30'	N38E	11.32		8.92		2.38							29.38					24.11
7900	6 00'	N40E	10.45	7998.71	8.01		6.97							16.80					21.73
8000	5 45'	North	10.02		10.02		6.72							8.79					14.76
8100	9 00'	N11W	15.64		15.35				2.98										8.04
8200	11 00'	S63W	19.08			E.66			17.00										11.02
8300	14 00'	N63W	24.19		10.98				21.54										26.02
8400	15 30'	N76W	26.72		6.46				25.93										49.56
8500	20 15'	N70W	34.61		11.84				32.52										75.49
8600	22 15'	N69W	37.87		13.57				35.36										106.01
8700	25 30'	N73W	43.05		12.59				41.20										143.37
8800	27 30'	N77W	15.70	8795.77	3.56				15.30										184.57
8834																			199.87

Bottom of hole lies North 66.92'
 and West 199.87', or N71° 30'W 210.6'.

RECEIVED
 AUG 24 1955
 LOS ANGELES, CALIFORNIA

SCHLUMBERGER WELL SURVEYING CORPORATION

Photoclinometer Survey

27-3-16

DIVISION OF OIL FIELD
RECEIVED

AUG 24 1955

LOS ANGELES, CALIFORNIA

GETTY OIL CO.

COMPANY (Tide Water (Assoc. Oil Company))

WELL Porter #45

FIELD Aliso Canyon

Southern California Gas Co. LOCATION 27 - 3N - 16W

~~PACIFIC LIGHTING SERVICE CO.~~
"SPZU" P-45
Sec. 27-3N-16W ALISO CANYON

COUNTY Los Angeles

STATE California

Magnetic Declination _____

HOLE Diameter 6 1/8" to 8026'
6" to 8875'
to _____

Casing Depth 7" to 7648'

RUN	DEPTH	DATE	OBSERVER
<u>One</u>	<u>8874'</u>	<u>5-26-55</u>	<u>R. DeLapp</u>

Depth	Drift Angle	True Verti- Cal Depth	Course Deviation	Drift Direction	LOS Accuracy				Polyangular Coords.			
					North	South	East	West	North	South	East	West
5748	1	5747.19	3.08	S 17 E		.90	1.42		28.56		39.99	
5848	2	5847.12	3.63	S 23 E		3.34			31.90		38.57	
5874	1	5873.11	.72	S 10 E		.71	.13		32.61		38.44	
5931	1	5930.08	1.74	S 14 E		1.69	.42		34.30		38.02	
6025	2	6024.02	3.28	S 8 W		3.25		.45	37.55		38.47	
6097	2	6095.98	2.51	S 8 W		2.48		0.35	40.03		38.82	
6143	1	6141.96	1.40	S 2 E		1.40			41.43		38.77	
6227	1	6225.92	2.57	S 9 W		2.54	0.05	.40	43.97		39.17	
6348	1	6346.88	3.14	South		3.14			47.11		39.17	
6469	1	6467.82	3.66	S 11 E		3.59	.69		50.70		38.48	
6560	1	6558.78	2.78	S 14 E		2.70	.57		53.40		37.81	
6660	1	6658.73	3.19	S 21 E		2.98	1.14		56.38		36.27	
6690	2	6688.71	1.05	S 23 E		.97	.41		57.35		35.86	
6722	2	6720.69	1.12	S 11 E		1.10	.21		58.45		35.65	
6751	1	6749.68	0.93	S 12 E		.91	.19		59.36		35.46	
6767	1	6765.67	.49	N 23 W		.41		.17	58.95		35.63	
6790	1	6788.66	.70	North		.70			58.25		35.63	
6850	1	6848.64	1.57	N 2 W		1.57	.16	.05	56.68		35.65	
6945	1	6943.59	3.04	N 3 E		3.04			53.64		35.52	
6991	1	6989.57	1.47	N 2 E		1.47	.05	.61	52.17		35.47	
7104	1	7102.51	3.20	N 11 W		3.20			49.03		36.08	
7158	2	7156.48	1.88	N 1 E		1.88			47.15		36.05	
7340	3	7338.23	9.52	N 23 E		8.76	.03		38.39		32.33	
7369	2	7367.20	1.47	N 30 E		1.23	3.72		37.16		31.61	
7427	2	7425.14	2.53	N 32 E		2.14	1.34		35.02		30.27	
7518	2	7516.05	4.10	N 38 E		3.23	2.52		31.79		27.55	
7580	2	7587.99	2.88	N 44 E		2.07	2.00		29.72		25.55	
7617	2	7614.96	1.14	N 48 E		0.76	0.85		28.96		24.70	

See Schlumberger Survey to 8834'

PACIFIC LIGHTING SERVICE CO.
 "SFZU" P-45
 Sec. 27-3N-16W ALISO CANYON

TIDE WATER ASSOCIATED OIL CO.
 PORTER #45 - ALISO CANYON FIELD
 EASTMAN SURVEY

RECEIVED
 AUG 24 1955
 LOS ANGELES, CALIFORNIA

Depth	Drift Angle	True Vertical Depth	Course Deviation	Drift Direction	Coord. Differences				Rectangular Coords.								
					North	South	East	West	North	South	East	West					
250	35'	250.00	2.52	N 42 W	1.86			1.67									
500	30'	500.00	2.18	N 85 W	0.19			2.17			0.85						
600	30'	600.00	0.87	N 47 W	.59			.64			1.44						
800	45'	799.98	2.62	N 6 W	2.61			.27			4.05						
1000	45'	999.96	2.62	N 21 W	2.45			.93			6.50						
1200	50'	1199.94	2.90	N 82 W	0.40			2.87			6.90						
1400	35'	1399.93	2.02	N 55 W	1.16			1.65			8.06						
1492	40'	1491.92	.83	S 87 W		.05		.93			8.01						
1683	-	1682.89	3.34	S 72 W		1.03		3.18			6.98						
1800	5'	1799.87	2.21	S 80 W		0.38		2.18			6.60						
2026	5'	2025.82	4.27	S 73 W		1.24		4.08			5.36						
2200	10'	2199.78	3.53	S 70 W		1.11		3.32			4.25						
2425	5'	2424.73	4.24	S 62 W		1.99		3.74			2.26						
2621	50'	2620.71	2.86	S 75 W		.74		2.76			1.52						
2888	45'	2887.68	3.50	S 75 W		.91		3.38			.61						
3084	30'	3083.67	1.71	S 63 W		.77		1.52			0.16						
3270	45'	3269.65	2.44	West				2.44			0.16						
3462	1	3461.62	3.36	West				3.36			0.16						
3589	50'	3588.60	1.85	N 79 W	0.35			1.82			0.19						
3760	1	3759.57	2.99	N 74 W	.82			2.88			1.01						
3919	0	3918.56	1.61	West				1.61			1.01						
4037	0	4036.55	1.71	S 84 W		0.18		1.70			.83						
4250	45'	4249.53	2.79	S 22 W		2.59		1.04			1.76						
4300	1	4299.52	.87	S 10 W		.86		.15			2.62						
4370	1	4369.51	1.22	South		1.22					3.84						
4457	45'	4456.47	2.66	S 3 E		2.66		.11			6.50						
4558	25'	4557.49	2.50	S 6 E		2.49		.26			8.99						
4668	50'	4667.43	1.60	S 11 E		1.57		.30			10.56						
4900	45'	4899.41	3.04	S 15 E		2.94		.79			13.50						
5230'	45'	5229.38	4.32	S 47 E		2.95		3.16			16.45						
5430	20'	5429.33	4.65	S 39 E		3.62		2.93			20.07						
5572	40'	5571.27	4.13	S 33 E		3.46		2.25			23.53						
5647	45	5646.24	2.29	S 25 E		2.08		.97			25.61						

SUBMIT IN DUPLICATE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED

AUG 19 1955

LOS ANGELES, CALIFORNIA

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator TIDE WATER ASSOCIATED OIL COMPANY Field ALISO CANYON

Well No. Porter #15 Sec. 27, T. 3 N, R. 16 W, S.B. B. & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
6-1/8" REESE CONVENTIONAL CORE BARREL					
Core #1 7653'	7673'			2-1/2'	1' Oil Sand - Hard, dark brown, fine, micaceous sandstone with occasional gray streak. Good cut and odor. 1' Shell - Hard, gray, fine, micaceous sandstone w/numerous fragments of carbonaceous material. 1/2' Clayey Limestone - Hard, massive, dark greenish-gray clayey limestone w/some pyrite crystals.
Core #2 7673'	7693'			4'	4' Oil Sand - Soft to firm, dark brown, saturated, fine to medium oil sand, w/biscuit partings containing free oil. Two 3" streak at top & bottom of core of hard gray sand. Good cut & odor.
Core #3 7693'	7713'			3'	3' Oil Sand - As above, w/occasional gray streaks. Good cut and odor.
Core #4 7713'	7733'			2-1/2'	1/2' Oil Sand - As above. 1-1/2' Shell - Hard, biotitic sandstone shell. One 45° fracture plane. 1/2' Gray Sand - Firm, greenish gray, biotitic sandstone.
Core #5 7733'	7753'			2'	3" Breccia - Dark to light gray variegated sandy breccia with large angular carbonaceous shale inclusions and lime cementation and some pyrite. No odor and faint cut. 1'9" Oil Sand - Fine, medium grained, light brownish gray oil sand with abundant mica and increasingly clayey to bottom. Irregularly stained at top. Has fair odor and good brown cut. Dips at approx. 30° (in pieces to 3").
Core #6 7753'	7773'			3"	3" Sand - Fine, medium grained, friable, light gray oil stained sand with abundant clay seams and biotite. Fair odor and good cut.

AUG 19 1955

Page 2

LOS ANGELES, CALIFORNIA

TIDE WATER ASSOCIATED OIL COMPANY

ALISO CANYON

Porter #45

27

3 N

16 W

S.B.

<p>Core #7 7773'</p> <p>Core #8 7793'</p> <p>Core #9 7813'</p> <p>Core #10 7833'</p>	<p>7793'</p> <p>7813'</p> <p>7833'</p> <p>(6-1/8" Reese Draghead) 7853'</p>	<p>No recovery.</p> <p>No recovery.</p> <p>No recovery.</p> <p>5'</p>	<p><u>1-1/2'</u> Shale - Hard, dark greenish-gray sandy shale w/condoidal parting at top and fair 20° dips toward bottom with light laminated seams and a slickensided surface. Sandy streaks to 1" having a poor straw cut and some carbonaceous material on partings.</p> <p><u>1/2'</u> Siltstone - Hard, gray sandy siltstone.</p> <p><u>1/2'</u> Shale - Hard, gray to black, carbonaceous sandy shale with poor 20° dip and numerous slickensides.</p> <p><u>1'</u> Shell - Hard, fine grained, light gray, limy sandy shell with abundant mica. Good 27° dip at top. Poor odor and faint cut.</p> <p><u>1'</u> Shale - Hard, gray to black, shale with poor 15-25° dip and occasional slickenside.</p> <p><u>1/2'</u> Sand - Hard, fine to medium grained, light gray sand with mica and occasional streaks of carbonaceous material. No cut and possibly wet.</p>
<p><u>6" MERCURY DIAMOND CORE BARREL</u></p> <p>Core #11 8026'</p>		<p>8011'</p> <p>9'</p>	<p><u>8'</u> Sand - Fine to medium grained friable light gray sand. Calcareous cementation and large biotite grains. Occasional clay seams and partings at 10-15°. Gravel and shale pieces to 3/8" on bottom and looks wet. No cut or odor.</p> <p><u>1'</u> Shale - Dark gray, limy shale with poor cleavage (possible slickensides and one 29° dip) with top 3" in brecciated pieces.</p>

OPERATOR: TIDE WATER ASSOCIATED OIL COMPANY

AUG 19 1955

19

WELL NO.: Porter #45, Aliso Canyon Field

LOS ANGELES, CALIFORNIA

Page 3

FORMATIONS PENETRATED BY WELL

Depth	Recovery	Description
Core #12 8041' - 8068'	10-1/2'	<p><u>1/2' Shale</u> - Light to dark sandy limey shale w/poor cleavage and sand streaks .</p> <p><u>1/2' Sand</u> - Hard, fine grained, limey sand. No cut or odor.</p> <p><u>1/2' Shale</u> - Light to dark gray sandy limey shale w/poor cleavage.</p> <p><u>9' Sand</u> - Hard, grading to soft, friable, gray, fine at top to coarse grained on bottom, calcareous sand. One clayey slickenside surface at 30° near top and one vertical 1' break 2' from bottom (broken up). Partings are 5-10°. Very faint cut & no odor. Definitely wet on bottom.</p>
Core #13 8068' - 8090'	17'	<p><u>17' Gray Sand</u> - Hard to firm, light gray, biotitic, fine to medium sandstone with biscuit partings. No cut or odor. Several 45° slickensided fracture planes.</p>
Core #14 8090' - 8115'	25'	<p><u>24' Gray Sand</u> - Hard to firm, light gray, fine to coarse biotitic sandstone w/limey matrix. Top half, massive; bottom half, w/biscuit partings. Occasional streaks carbonaceous material.</p> <p><u>1' Shale w/Streaks Gray Sand</u> - Very hard, brittle, silty shale w/occasional streaks of hard gray sand. Excellent 28° dips. Occasional forams. No cut or odor.</p>
Core #15 8115' - 8145'	30'	<p><u>18' Gouge w/Streaks Silty Shale</u> - highly polished fault gouge w/streak of hard brittle, dark grayish black pyritic shale. Several 29° dips.</p> <p><u>12' Gray Sand</u> - Hard to firm, light gray, biotitic & glauconitic, fine to medium sandstone w/biscuit partings</p>
Core #16 8145' - 8172'	26'	<p><u>2-1/2' Sand</u> - Hard, medium coarse grained gray clayey, limey sand w/some mica. Has some biscuit partings at 10-15°. No cut or odor. Possibly wet. Has 2" shale stringer on bottom.</p> <p><u>1/2' Shale</u> - Hard black shale w/sandy stringer & numerous slickensides.</p> <p><u>2' Sand</u> - Fine grained silty light gray sand w/numerous shale stringers. Partings at 15°. No cut or odor.</p> <p><u>1-1/2' Sand</u> - Medium to coarse grained gray limey sand.</p> <p><u>2' Shale</u> - Hard black shale w/sandy streaks slickensides & faulted seams with pyrite seams & carbonaceous particles</p> <p><u>16' Sand</u> - Hard, fine grained on top grading to coarse on bottom, gray limey silty sand w/biscuit parting at 15°.</p> <p><u>1-1/2' Sand</u> - Faulted gray medium grained silty sand w/shale stringers & gouge. No cut or odor.</p>
Core #17 8172' - 8202'	16'	<p><u>16' Sand</u> - Medium to coarse grained, light gray, limey, silty sand w/occasional gravel to 3/8" and some mica. Fine to medium grained toward bottom. No cut or odor.</p>

OPERATOR: TIDE WATER ASSOCIATED OIL COMPANY

AUG 19 1955

①

WELL NO.: Porter #45, Aliso Canyon Field

LOS ANGELES, CALIFORNIA

Page 4

FORMATIONS PENETRATED BY WELL

Depth	Recovery	Description
Core #18 8202' - 8232'	13'	<u>13' Sand</u> - Hard to friable, medium to coarse grained on top, grading to fine on bottom 5'. Light gray limey silty sand with frequent biscuit partings at 10° & abundant mica. No cut or odor.
Core #19 8232' - 8264'	20'	<u>2-1/2' Sand</u> - Coarse to fine grained light gray silty sand, slightly limey & wet, with mica & occasional pebbles to 1". <u>1' Shale</u> - Dark Gray, slickensided, sandy shale w/some fair 30° dips and pyrite seams. <u>11' Sand</u> - Hard, medium to coarse grained light gray silty sand w/some very limey intervals & large mica grains & some carbonaceous particles. Has 3" shale (25° dip) streak near bottom and is slightly wet. No cut or odor. <u>1' Sandy Gouge</u> - Sand w/pieces of shale gouge. <u>4-1/2' Sand</u> - Medium to coarse grained light gray silty limey sand. Slightly wet w/no cut or odor.
Core #20 8264' - 8294'	30'	<u>15' Sand</u> - Medium to coarse grained, light gray, silty, limey sand w/some mica & fair biscuit partings at 5-10° and one fault break. Slightly wet. No cut or odor. <u>1-1/2' Shale</u> - Fine grained sandy shale w/sandy laminations & slickensides in two directions. <u>12-1/2' Sand</u> - Coarse, grading to fine, grained on bottom hard, light gray, slightly limey silty sand w/some mica. No cut or odor. <u>1' Shale</u> - Dark gray sandy shale w/sandy streaks at top. Has poor 20° dip & is slickensided.
Core #21 8294' - 8324'	30'	<u>30' Sand</u> - Hard, coarse grained grading to fine in middle, light gray, slightly silty & limey sand. Has occasional shaley seam & biscuit partings at 5-10°. Micaceous & slightly wet. Faint odor & no cut.
Core #22 8324' - 8354'	15'	<u>13-1/2' Sand</u> - Medium to coarse grained light gray silty limey sand w/mica & abundant good biscuit partings at 5-10°. Has fracutre break at bottom & appears wet. No cut or odor. <u>1-1/2' Sand</u> - as above, in pieces, w/occasional piece of shale gouge.
Core #23 8354' - 8384'	30'	<u>30' Sand</u> - Hard, medium-coarse grained, light gray, silty limey sand w/some mica. Appears partially wet & has slickensides (shaley). Fracutre breaks at 8356', 8361' & 8373'. Has faint odor & cut.

AUG 19 1955

9

OPERATOR: TIDE WATER ASSOCIATED OIL COMPANY

WELL NO.: Porter #45, Aliso Canyon Field

LOS ANGELES, CALIFORNIA

Page 5

FORMATIONS PENETRATED BY WELL

Depth	Recovery	Description
Core #24 8384' - 8414'	30'	30' Sand - Hard, coarse grained, grading to fine and silty in middle, light gray, limey sand w/abundant mica and some partings at 10-15°. Has shaley slickenside surface at 8399' and 8309'. Fair to poor gas odor and no cut. (Appears damp but evaporates immediately).
Core #25 8414' - 8444'	18'	1' Gray Sand - Fine to medium grained light gray silty limey sand with some mica and pebbles. Firm but friable. No cut - faint odor. 2' Gray Sand - Fine to medium grained light gray silty limey sand - medium hard - biscuit partings. 1/2' Siltstone - Light gray siltstone with carbonaceous material. 4-1/2' Gray Sand - Fine to medium grained light gray silty limey sand w/some mica - biscuit partings. No cut, faint odor. 1' Dark Gray Shale - Hard dark gray shale. 6' Gray Sand - Fine to coarse grained light gray silty limey sand, hard, with some mica and pebbles. Faint odor, no cut. 1' Sand Gouge - Fine to medium grained light gray silty limey sand w/mica & pebbles. Faint odor, no cut.
Core #26 8444' - 8474'	30'	30' Gray Sand - Medium to coarse grained light gray silty limey sand with some mica & occasional biscuit partings & carbonaceous material. 6" dark gray shale stringer at 8469'. No cut, faint odor.
Core #27 8474' - 8504'	10'	6' Gray Sand - Fine to medium grained light gray silty limey sand grading to fine grained. Hard with biscuit partings. Some mica & carbonaceous material. Thin shale stringer at 8476'. No cut, faint odor. 3' Dark Gray Shale - Hard dark gray shale with carbonaceous inclusions. Possible dip 35-40°. 1' Gray Sand - Coarse light gray silty limey sand grading to medium, with mica. No cut, faint odor.
Core #28 8504' - 8534'	10'	1' Gray Sand - Fine to coarse light gray silty limey sand with pebbles to 3/8" - thin shale seams - moist appearance on fresh fracture. Fair odor, no cut. 2' Dark Gray Shale - with numerous slickensides. Poor 35° dip. 4' Gray Sand - Fine grained light gray silty limey sand with numerous biscuit partings. Fair odor, no cut. 2' Gray Sand - Dark gray siltstone grading to very fine light gray silty sand. Approximate 40° dip. 1' Gray Sand - Very fine light gray silty limey sand. Moist on fresh fracture. No cut, fair odor.

OPERATOR: TIDE WATER ASSOCIATED OIL COMPANY

AUG 19 1955

9

WELL NO.: Porter #45, Aliso Canyon Field

LOS ANGELES, CALIFORNIA

Page 6

FORMATIONS PENETRATED BY WELL

Depth	Recovery	Description
Core #29 8534' - 8564'	30'	<u>30' Gray Sand</u> - Fine to medium light gray silty limey sand with numerous pebbles to 3/8". Moist appearance. Fair odor. No cut, no fluorescence.
Core #30 8564' - 8594'	28'	<u>4' Gray Sand</u> - Fine to medium grained light gray silty sand. Slightly limey. Moist appearance. Thin dark gray shale stringer at 8568'. Poor 35° dip. No cut, fair odor. <u>1' Gouge</u> - Shale bits intermingled with medium grained sand. Slickensides. <u>5' Gray Sand</u> - Fine to medium grained light gray silty sand. Slightly limey with numerous pebbles to 1/4". Heavy invasion of mud filtrate. No cut. <u>12' Gray Sand & Shale</u> - Fine to medium grained light gray silty sand grading to dark gray shale. Fair 38° dip. Slickensides. Fair odor, no cut. <u>6' Gray Sand</u> - Light gray siltstone grading to fine to medium grained light gray silty sand. Biscuit partings. Vertical fractures. Fair odor, no cut.
Core #31 8594' - 8622'	16'	<u>2' Gray Sand</u> - Fine to medium grained light gray silty sand grading to very fine to fine grained, firm, slightly limey, moist appearance. Fair to weak odor. No cut. <u>4' Gray Sand</u> - Fine to medium grained light gray silty limey sand. Moist appearance. Fair to weak odor. No cut. No fluorescence. Thin light gray siltstone stringer at 8600' with seam of dark gray shale - slickensides. <u>9' Gray Sand</u> - Fine light gray silty limey sand grading to fine to medium grained with mica and pebbles. Moist appearance. Fair to weak odor, no cut, no fluorescence. <u>1' Dark Gray Shale</u> - Poor dip at 30 to 35°. Slickensides. Lower 6' mixed sand and shale fragments.
Core #32 8622' - 8652'	30'	<u>3' Dark Gray Shale</u> - Hard dark gray shale. Approximate dip 40°. Some slickensides and vertical fractures. <u>27' Gray Sand</u> - Fine light gray silty limey sand grading to fine to medium grained with numerous pebbles to 3/8" - firm to friable in lower section. Shale & siltstone. Seam at 8634' and at 8637' - fair to good odor, no cut.
Core #33 8652' - 8682'	13'	<u>13' Gray Sand</u> - Fine to medium light gray silty limey sand with numerous biscuit partings. Shale seam at 8653', thin shale stringer at 8663'. Approximate dip 45°. Fair to weak odor. No cut, no fluorescence.

OPERATOR: TIDE WATER ASSOCIATED OIL COMPANY

AUG 19 1955

WELL NO.: Porter #45, Aliso Canyon Field

LOS ANGELES, CALIFORNIA

9
Page 7

FORMATIONS PENETRATED BY WELL

Depth	Recovery	Description
Core #34 8682' - 8713'	30'	<p><u>12' Gray Sand</u> - Fine to medium grained light gray silty limey sand with numerous sub-angular to sub-rounded pebbles to 3/8". Biscuit partings. Faint odor, no cut.</p> <p><u>3' Gray Sand</u> - Very fine to fine grained light gray silt sand. No odor, no cut.</p> <p><u>15' Gray Sand</u> - Fine to medium grained light gray silty limey sand with occasional shale fragments. Biscuit partings - moist appearance - faint odor, no cut.</p>
Core #35 8713' - 8744'	30'	<p><u>11' Gray Sand</u> - Medium to coarse grained light gray silty limey sand with numerous sub-angular to sub-rounded pebbles to 1/4" grading to fine to medium grained with occasional sub-angular to sub-rounded pebbles to 1/8". Abundance of mica predominately biotite. Biscuit partings from 8716'-17'. Moist appearance on fresh fracture. Faint odor, no cut. No fluorescence.</p> <p><u>19' Gray Sand</u> - Fine to medium light gray silty limey sand grading to medium grained with numerous sub-angular to sub-rounded pebbles to 1/8". Abundance of mica predominately biotite. Occasional biscuit partings. Thin dark gray shale seam at 8731'. Faint odor, no cut, no fluorescence. Moist appearance on fresh fracture.</p>
Core #36 8744' - 8775'	30'	<p><u>11' Gray Sand</u> - Medium to coarse grained light gray silty limey sand grading to fine to medium grained with numerous sub-angular to sub-rounded pebbles to 1/8". Abundance of mica, predominately biotite. Biscuit partings from 8753' - 8755'. 2" dark gray shale stringer at 8755'. Dip 38°. Faint to weak odor, no cut. No fluorescence. Moist on fresh fracture.</p> <p><u>19' Gray Sand</u> - Very fine to fine grained light gray silty limey sand grading to fine to medium grained with occasional sub-angular to sub-rounded pebbles to 1/4". Occasional angular shale fragments. Small fragments of carbonaceous material at 8766'. Biscuit partings from 8767'-8769'. Abundance of mica, predominately biotitic. Moist appearance on fresh fracture. Fair to weak odor. No cut. No fluorescence.</p>
Core #37 8775' - 8805'	30'	<p><u>1' Gray Sand</u> - Fine light gray silty limey sand grading to fine to medium grained, firm but friable. Moist appearance on fresh fracture. Fair to good odor. No cut. No fluorescence.</p> <p><u>17' Gray Sand</u> - Fine to medium grained light gray silty limey sand with numerous sub-angular to sub-rounded pebbles increasing in number and size to 1/2". Fair to weak odor. No cut. No fluorescence. Moist on fresh fracture.</p>

OPERATOR: TIDE WATER ASSOCIATED OIL COMPANY

WELL NO.: Porter #45, Aliso Canyon Field

DIVISION OF OIL AND GAS
RECEIVED

AUG 19 1955

LOS ANGELES, CALIFORNIA

Page 8

FORMATIONS PENETRATED BY WELL

Depth	Recovery	Description
Core #37 (cont.) 8775' - 8805'		3' <u>Gray Sand</u> - Fine to medium grained light gray silty limey sand. Numerous mica flakes. Moist on fresh fracture. Fair to weak odor. No cut. No fluorescence. 7' <u>Gray Sand</u> - Fine to medium grained light gray silty limey sand with sub-angular to sub-rounded pebbles increasing in number and size to 1/4". Slickensides at 8803'. Numerous mica flakes. Moist on fresh fracture. Fair to weak odor. No cut. No fluorescence. 2' <u>Gray Sand</u> - Fine, light gray silty limey sand, firm, numerous mica flakes. Moist on fresh fracture. Fair to weak odor. No cut. No fluorescence.
Core #38 8805' - 8835'	25'	24' <u>Gray Sand</u> - Firm medium to coarse grained light gray silty limey sand with some mica and pebbles to 3/8". Is moist on fresh break and probably wet. Has fair odor and very light straw cut. 1' <u>Sand Gouge</u> - Friable, light gray sand (in pieces) with siltstone and shale inclusions and pieces of dark gray sand with good odor.

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T. 155-790

Mr. Thomas W. Weaver
Box Y
Los Nietos Calif
Agent for TIDE WATER ASSOCIATED OIL COMPANY
Los Angeles 15 Calif.
April 13 1955

SEC. 3808 WELL

DEAR SIR:

Operations at your well No. "Porter" 45 Sec. 27, T. 3 N., R. 16 W., S. B. B. & M.,
Aliso Canyon Field, in Los Angeles County, were witnessed
on April 7, 1955. Mr. W. Polglase, Engineer, representative of the supervisor was present
from 2:00 p.m. to 2:30 p.m. There were also present B. Allen, Drilling Foreman
H. Marshal, Driller
Present condition of well: 10-3/4" cem. 505', T.D. (Drilling) 4250'.

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

Mr. Allen reported:

1. A 17-1/2" rotary hole was drilled from the surface to 100', and a 16" rotary hole was drilled from 100' to 505'.
2. On March 29, 1955, 10-3/4", 40 lb. casing was cemented at 505' with 450 sacks of cement.
3. Cement returned to the surface.
4. A 9-7/8" rotary hole was drilled from 505' to 4250'.

THE ENGINEER 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. A Hydril blowout preventer for closing around the 4-1/2" drill pipe.
3. The controls for the above equipment were located outside the derrick.
4. A 2" mud fill-up line with a 2" high pressure stopcock into the 10-3/4" casing below the above equipment.
5. A high pressure stopcock on the kelly.

THE BLOWOUT PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

WP:mn

cc Mr F W Hertel
Mr R S Curl
Mr R M Burns (2)

E. H. MUSSER
State Oil and Gas Supervisor

By *R. M. Halting* Deputy

DIVISION OF OIL AND GAS

Report on Test of Water Shut-off

(FORMATION TESTER)

No. T 155-1113

Mr. Thomas E Weaver
Box Y
Los Nietos California
Agent for Tide Water Associated Oil Co

Los Angeles 15 Calif.
May 18 19 55

SEC. 3606 WELL

DEAR SIR:

Your well No. "Porter" 45, Sec. 27, T. 3 N., R. 16 W., S. B.B & M.
Aliso Canyon Field, in Los Angeles County, was tested for water shut-off
on May 4, 19 55 Mr. R. Ybarra, Engineer, designated by the supervisor was present
from 8:30 to 9:30 a.m. as prescribed by law; there were also present A. Hanson, Engineer;
J. Allen, Drilling Foreman.

Shut-off data: 7 in. 23 & 26 lb. casing was ~~xx~~ cemented xxxx at 7648 ft.
on April 30, 19 55 in 9-7/8 in. hole with 300 ~~xxxx~~ sacks of cement
plus 300 cu.ft. Perlite, followed * calculated to fill behind casing to 5230 ft. below surface.
Casing record of well: 10-3/4" cem. 505'; 7" cem. 7648', c.p. 7510', four 1/2" holes 7444',
four 1/2" hole 7390', W.S.O.

Present depth 7648 ft. cmt. bridge 7648 ft. to 7628 ft. Cleaned out cmt. 7602 ft. to 7628 ft. for test.
A pressure of 1000 lb. was applied to the inside of casing for 15 min. without loss after cleaning out to 7628 ft.
A Johnston gun and tester was run into the hole on 3-1/2 in. drill pipe ~~run~~
with 1000 ft. of water ~~run~~ cushion, and packer ~~xx~~ set at 7353 ft. with tailpiece to 7373 ft.
Tester valve, with 5/8 in. bean, was opened at 5:15 a.m. and remained
open for 1 hr. and ~~xxx~~ min. During this interval there was a light blow for one min., and no
blow thereafter.

Mr. Hanson reported: *100 sacks Neat cement.

1. A 9-7/8" rotary hole was drilled from 505' to 7648'.
2. The 7" casing was cemented as noted above.
3. The 7" casing was shot-perforated with four 1/2" holes at 7510' and tested wet.
4. On May 3, 1955, the 7" casing was recemented through perforations at 7510' with 100 sacks of cement 97 of which was squeezed away under a final pressure of 2900 Psi.
5. The 7" casing was perforated with four 1/2" holes at 7444' and tested dry.
6. The 7" casing was shot-perforated with four 1/2" holes at 7390'.

THE ENGINEER NOTED:

1. When the drill pipe was removed, there was a net recovery of 25' of light drilling fluid found in the drill pipe above the tester, equivalent to 0.2 bbl.
2. The recording pressure bomb chart showed that the tester valve was open 1 hr.

THE 7" SHUT-OFF AT 7390' IS APPROVED.

RY:OH

cc R S Curl
R M Burns (2)

F W Hertel
c/o Tide Water Associated Oil Co
79 New Montgomery Street
SAN FRANCISCO 20 California

E. H. MUSSER
State Oil and Gas Supervisor

By R. H. Stelling Deputy

DIVISION OF OIL AND GAS

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

No. T. 155-1114

Mr. Thomas E Weaver
Box Y
Los Nietos California
Agent for TIDE WATER ASSOCIATED OIL CO

Los Angeles 15 Calif.
May 18 1955

SEC. 3006 WELL

DEAR SIR:

Your well No. "Porter" 45, Sec. 27, T3 N, R. 16 W, S B B & M.
Aliso Canyon Field, in Los Angeles County, was tested for water shut-off
on May 7, 19 55. Mr. R. Ybarra, Engineer, designated by the supervisor was present
from 5:30 to 6:30 a.m. as prescribed by law; there were also present A. Hanson, Engineer;
A. Marshall, Driller.

Shut-off data: 7 in. 23 & 26 lb. casing was re-cemented through perforations at 7512 ft.
on May 5, 19 55 in 9-7/8 in. hole with 75 ~~xxxxxx~~ sacks of cement
~~xxxxxx~~ calculated to fill behind casing to ~~xxxx~~ ft. below surface.

Casing record of well: 10-3/4" cem. 505'; 7" cem. 7648', W.S.O., c.p. 7510', c.p. 7512', four
1/2" holes 7444', four 1/2" test holes 7390', W.S.O.

Present depth 7653 ft. cmt. bridge ~~xxxx~~ ft. to ~~xxxx~~ ft. Cleaned out cmt. 7419 ft. to 7648 ft. for 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 gun and tester was run into the hole on 3 1/2 in. drill pipe ~~xxxx~~
with 500 ft. of water ~~and~~ cushion, and packer ~~xx~~ set at 7618 ft. with tailpiece to 7638 ft.
Tester valve, with 3/4 in. bean, was opened at 1:00 a.m. and remained
open for 2 hr. and 10 min. During this interval there was a decreasing, medium blow for
the duration of the test.

Mr. Hanson reported:

1. The 7" casing was perforated with four 1/2" holes at 7512', and tested wet.
2. On May 5, 1955, the 7" casing was re-cemented through perforations at 7512' with 75 sacks of cement of which 62 sacks was squeezed away under a final pressure of 5000 Psi.
3. A 6-1/4" rotary hole was drilled from 7648' to 7653'.

THE ENGINEER NOTED:

1. When the drill pipe was removed, there was a net recovery of 40' of muddy, oily drilling fluid in the drill pipe above the tester, equivalent to 0.2 bbl.
2. The recording pressure bomb chart showed that the tester valve was open 2 hr. and 10 min

THE 7" SHUT-OFF AT 7648' IS APPROVED.

RY:OH

cc F W Hertel
R M Burns (2)

R S Curl
c/o Tide Water Associated Oil Co
888 Pacific Electric Bldg
LOS ANGELES 14

E. H. MUSSER
State Oil and Gas Supervisor

By R. M. Halling Deputy

DIVISION OF OIL AND GAS
REPORT ON PROPOSED OPERATIONS

No. P 155-455

Mr. Thomas E Weaver
Box Y
Los Nietos California
Agent for TIDE WATER ASSOCIATED OIL COLos Angeles 15 Calif.
March 15 1955

SEC. 3606 WELL

12-1

DEAR SIR:

Your proposal to drill Well No. "Porter" 45
Sectio27, T. 3 N, R. 16 W, S. B B. & M., Aliso Canyon Field, Los Angeles County,
dated March 11 1955, received March 14 1955, 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"Legal description of lease PorterLocation of Well: 2500 feet South and 920 feet West from Station #84.Elevation of ground above sea level Approx. 1896 feet above sea level datum.All depth measurements taken from top of Derrick Floor which is approx. 10 feet above ground**PROPOSAL****"PROPOSED CASING PROGRAM****Size of Casing**

Inches A.P.I.	Weight	Grade and Type	Top	Bottom	Cementing Depths
10-3/4"	45#	J-55, T & C	0'	500'	500'
7"	23, 26#	N-80, J-55	0'	7800'	7800'
5"	15#	T & C, Spdtite	7700'	8600'	8600'
		J-55, Spdtite			

Intended zone or zones of completion: Fresh

Well to be drilled under Section 3606 due to rugged terrain or area. Substantially all land is rugged. Well to be confined to 75' radius circle, center of which lies perpendicularly beneath surface location at 7600'.

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

DECISION**THE PROPOSAL IS APPROVED PROVIDED THAT**

1. The provisions of Sec. 3606 relating to derricks and subsurface spacing shall be followed.
2. A directional survey shall be made and filed with this division.
3. 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.
4. Adequate blowout prevention equipment shall be installed and maintained in operating condition at all times.
5. **THIS DIVISION SHALL BE NOTIFIED AS FOLLOWS:**

- (a) To inspect the installed blowout prevention equipment before drilling below 2000'.
- (b) To witness a test of the effectiveness of the 7" shut-off.

FEK:GH

cc F W Hertel
R S Curl
J R Boyer (2)

E. H. MUSSER, State Oil and Gas Supervisor

By D. M. Halling, Deputy

037-00732

DIVISION OF OIL AND GAS

MAR 14 1955

Notice of Intention to Drill New Well

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

(D)
14

CORRECTED NOTICE

Los Nietos Calif. March 11 19 55

DIVISION OF OIL AND GAS

MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121

In compliance with Section 3203, Division III, Article 4, Public Resources Code, notice is hereby given that it is

our intention to commence the work of drilling well No. "Porter #15", Sec. 27, T. 3 N., W. 2 P.

R. 16 W., S. 3, B. & M., Aliso Canyon Field, Los Angeles County.

Legal description of lease Porter
(Attach map or plat to scale)

Location of Well: 2500' feet South ~~from section line~~ and 920' feet West
(Direction) ~~from section line~~ property corner of section
~~at right angles to said line from corner~~ from Station #84

Elevation of ground above sea level ~~1896~~ feet ~~above sea level~~ datum. ~~approx.~~
All depth measurements taken from top of ~~Derrick Floor~~ which is ~~10'~~ feet above ground.
(Derrick Floor, Rotary Table or Kelly Bushing)

PROPOSED CASING PROGRAM

SIZE OF CASING INCHES A.P.I.	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS
10-3/4"	45#	J-55, T & C	0'	500'	500'
7"	23, 26#	N-80, J-55 T & C, Spdtite	0'	7800'	7800'
5"	15#	J-55, Spdtite	7700'	8600'	8600'

Intended zone or zones of completion: ~~Prod~~

Well to be drilled under Section 3606 due to rugged terrain of area. Substantially all land is rugged. Well to be confined to 75' radius circle, center of which lies perpendicularly beneath surface location at 7600'.

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

Address F. O. Box "Y", Los Nietos, California TIDE WATER ASSOCIATED OIL COMPANY
(Name of Operator)

Telephone Number Oxford 91051 By T. E. Weaver, Agent