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:

FROM	TO
"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. KINNEAR

OGD157 (10/85/DWRR/1M)

OPERATOR [illegible]

LSE & NO SF 240 F-34

MAP 250

	( )	( )	( )	( )	( )	( )
INTENTION	None Change of Op Rec'd	[illegible]	Recomp	Susp		
NOTICE DATED	None	9-22-77	9-29-89	11-28-89		
P-REPORT NUMBER	None	277-244	289-347	289-464		
CHECKED BY/DATE						
MAP LETTER DATED	AD	NC				
SYMBOL			AOC	AOC		

	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED
NOTICE			9-22-77	X	10/5/89		11-29-89					
HISTORY	3-11-75		11-3-77	X			2-23-90					
SUMMARY	3-11-75											
IES/ELECTRIC LOG												
DIRECTIONAL SURV												
CORD/GWG DESCRIP												
OTHER			Rpt'd 11-77 P-277-244									
RECORDS COMPLETE	3-11-75		P-277-244	X	10/5/89		2-23-90					

ENGINEERING CHECK

CLERICAL CHECK

P-REPORTS	
OPERATOR'S NAME	
WELL DESIGNATION	
LOC & ELEV	
SIGNATURE	
SURFACE INSPECTION	
FINAL LETTER OK	

POSTED TO 121 _____ WC MAILED _____ FINAL LETTER MAILED _____ RELEASED BOND _____

REMARKS: _____

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Co. Field Aliso Canyon County Los Angeles
Well "SFZU" Porter 34 "SFZU" P-34, Sec. 28, T 3N, R 16W S.B. B. & M.
A.P.I. No. 037-00721 Name R.D. Phillips (Person submitting report) Title Agent (President, Secretary or Agent)
Date January 29, 1990

Signature J.B. Lane for R.D. Phillips

P.O. Box 3429 Terminal Annex, Los Angeles, CA 90051 (213-689-3925)
(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	
	MWO 99113: Were issued to replace liner, gravel GWO 91909: pack liner and install innerstring.
1989	
	DIVISION OF OIL AND GAS RECEIVED FEB 23 1990
10-13 to 10-19	Rigged up and re-killed well.
10-20	Circulated gas from well and filled hole with 43 barrels of fluid. Installed back pressure valve and removed xmas tree. Installed BOPE and tested blind rams, 2-7/8" pipe rams and choke manifold to 4000 psi, Hydril bag to 3000 psi. Pam Ceccarelli of the DOG waived the inspection of the BOPE.
10-21	Released donut from tubing head. Attempted to release from Baker Retrieva-D 7" 29# packer without success. Ran freepoint and made two backoff attempts at 7672'.
10-22	Made chemical cut at 7622'. Pulled out of well laying down 245 joints of 2-7/8" tubing and Camco MMG mandrel. Made up 2-7/8" grapple, bumper sub, jars, and four 4-3/4" drill collars crossed over to 2-7/8" drill pipe.
10-24 to 11-1	Jarred fish lose and recovered safety system, two blast joints and No-Go nipple. Left latch and seal assembly in well. Ran in well with 3.25" mill. Milled out seal units. Made up Baker retrieving tool and attempted to release packer at 7675'. Pulled tubing string in half at perforated nipple. Made up short catch overshot, attached to retrieving tool, and recovered Retrieva-D packer. Made up 4-1/8" overshot on four 4-3/4" drill collars, ran in well, and recovered 2-7/8" production tube.

11-2 to 11-4 Using Atlas Bradford wireline, ran Vertilog casing inspection log in 7" casing from surface to 7694'. Cut lead seal adaptor with chemical cutter at 7702'. Ran in well with 4.406" spear, jarred lead seal adaptor loose, and pulled out of well. Made up 5-3/4" overshot on four 4-3/4" drill collars, cross over to 2-7/8" drill pipe. Worked over fish to 7712' and recovered 85' of liner. Showed washout of pipe and wire wrap at 7787'.

11-6 to 11-27 Dressed off top of liner at 7787'. After several unsuccessful attempts, a 2-7/8" spear was run on the fishing assembly and the remaining 224' of 2-7/8" wire wrapped liner was recovered in one trip. Made up 4-1/8" bit on 11 joints of 2-3/8" Hydril CS tubing, crossed over to 2-7/8" drill pipe, and ran in well to 7940'. Pulled out of well. Ran in well and set 7" 26# retrievable bridge plug at 6500' and RTTS packer at 60'.

11-28 to 11-30 Removed BOPE and tubing head. Installed 11" x 11" 5000 psi innerstring spool. Installed BOPE and pressure tested connections to 1000 psi. Retrieved RTTS tool and retrievable bridge plug. Ran GR-neutron correlation log from 6000'-7940'. Using 3-1/2" wireline bailer, set cement plug from 7929'-7940'. Made up 4-1/8" bit on 11 joints of 2-3/8" Hydril CS, crossed over to 2-7/8" drill pipe. Changed over from 63# polymer completion fluid to 2% KCl water.

12-1 to 12-5 Pulled out with 4-1/8" bit. Ran Vann perforating tools to 7917'. Perforated with 4 holes/ft. from 7785'-7810', 7835'-7855', and 7900'-7910'. Left tool open for 30 minutes. Closed tool, released the packer and pulled the perforating assembly out of the well. Ran bit and casing scraper down to tight spot at 7785'-- worked clean. Circulated out 5' of fill.

12-6 to 12-12 Pulled out of well. Ran in with wash tool. Washed liner from 7715'-7929'. Filtered fluid in well. Pulled out of well. Laid down 2-3/8" tubing. Picked up 2-3/8" wire-wrapped liner as follows: bull plugged pup joint on the bottom, 150' of 2-3/8" Baker Super Slim Pack 0.008" gauge wire wrapped screen and 79' of blank pipe. Made up tubing tail and gravel pack tools. Ran liner assembly and tools to 7918'. Gravel packed liner in stages of 40 sacks and 20 sacks of 40-60 mesh gravel. Reversed out 8 sacks and 2 sacks after sanding out to 2000 psi. Pulled out of well and laid down gravel pack tools. Ran in and set 7" x 2-3/8" lead seal drive over adapter at 7680'. Released setting tool and pulled out of well. Picked up 1-1/4" Hydril

tubing with 45 degree shoe, crossed over to 2-7/8" drill pipe. Located fill in 2-3/8" liner at 7932'. Unable to clean out sand. Pulled to top of liner. Ran back into liner and stopped at 7805'. Pulled out of well and found 2-3/8" wire wrapped liner stuck on 1-1/4" tubing tail. Laid down liner(found one small washout in wire wrapped screen). Picked up 11 joints of 2-3/8" tubing and ran on drill pipe. Located sand at 7872' and cleaned out to 7934'.

12-13 to 12-15 Circulated and filtered KCl fluid in well. Pulled out of liner. Waited two days on replacement liner.

12-16 to 12-20 Ran into 5" liner to 7929'-no fill. Pulled out of the well and laid down 11 joints of 2-3/8" Hydril CS tubing. Made up 152' of 2-3/8" conventional 0.008" gauge wire wrapped liner, 77' of 2-3/8" blank pipe, and gravel packing tools. Ran liner in well and set top of landing nipple at 7687'. Pumped 25 sacks of 40-60 mesh sand in slurry with final sand rate out of 1.1 cu.ft/min at 1300 psi. Reversed out two sacks of gravel for a total of 23 sacks in place. Released tool from liner and pulled out of well. Ran in well and set lead seal drive over adapter on liner from 7684"-7687'. Picked up 8 joints of 3/4" tubing, crossed over to 2-7/8" drill pipe. Ran in and backscuttled well clean. Ran 7" 29# gauge ring on wireline. Set Otis 7" 29# WCB packer at 7640'. Ran in well with test seals and J-latch. Tested seals, packer, and 7" casing to 1500 psi for 20 minutes. Pulled out of well and laid down drill pipe.

12-23 to 12-25 Holiday

12-26 to 12-27 Ran 182 joints 5-1/2" 20# N-80 Atlas Bradford FL-4S casing while monitoring torque to 3000 ft-lb and and hydrotesting to 4000 psi. Landed on packer at 7640' with 10,000 lb. Checked latch to 20,000 lb. overpull. Pumped 80 barrels of double inhibited 2% KCl water into 5-1/2" x 7 annulus. Set Baker Model "C" bridge plug at 50'. Removed BOPE and set slips at 20,000 lb. on packer and 90,000 lb. on casing spool. Cut off 5-1/2" casing. Installed 11" x 11" x 5-1/2" seal flange, tubing head and BOPE.

12-28 to 12-29 Tested seal flange to 5000 psi. Ran 241 joints 2-3/8", 4.7#, N-80 to 8rd EUE tubing, while drifting and hydrotesting to 4000 psi. Landed on packer. Checked latch with 20,000 lb. pull. Spaced out and landed with 6000 lb. on packer and 30,000 lb. on donut. Tested packer and annulus to 1500 psi. Installed back pressure valve. Removed BOPE and installed xmas tree. Pressure tested xmas tree to 3000 psi. Released rig at 12:01 P.M.

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

No.P 289-464
Field Code 010
Area Code 00
New Pool Code 30
Old Pool Code 30

PERMIT TO CONDUCT WELL OPERATIONS

R.W. Weibel, Agent
Southern Calif. Gas Company
810 S. Flower St.
Los Angeles, CA. 90017

Ventura, California
December 5, 1989

Your supplementary proposal to rework well "SFZU" P-34, A.P.I. No. 034-00721, Section 28, T. 3 N, R. 16W, S.B. B.&M., Aliso Canyon field, ---- area, Sesnon-Frew pool, Los Angeles County, dated 11/28/89, received 11/29/89, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Requirements specified in permit No. P289-347 dated 10/12/89 shall apply.

Blanket Bond
SF:ljg

Engineer Steve Fields

Phone (805) 654-4761

M.G. ~~MEFFERD~~, State Oil and Gas Supervisor

By

Patrick J. Kinnear
Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.
OG111

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

SUPPLEMENTARY NOTICE

FOR DIVISION USE ONLY			
BOND	FORMS		EDP WELL FILE
	OGD114	OGD121	
✓	✓	✓	

DIVISION OF OIL AND GAS

Ventura Calif.

A notice to you dated September 29, 19 89, stating the intention to

Rework "SF2U" ~~Porter~~ 34, API No. 037-00721,
(Drill, rework, abandon) (Well name and number)

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

Los Angeles County, should be amended because of changed conditions.

The present condition of the well is as follows:

Total depth 8016'

Complete casing record including plugs and perforations:

	13-3/8"	cemented at 529', 54.5# J-55
	7"	cemented 7760', WSO on shoe
304'	5"	liner landed at 8016', slotted 7742'-8016', scabbed with cement, 7888'-7861' and 7842'-7805'. Top of liner 7712'.
315'	2-7/8"	liner landed 8009', 18 mesh Gru-V-Kut perforated 7729'-8009'. Lead seal liner hanger on top and closed at bottom. Top of liner 7694'.

We now propose

1. Move in rig and kill well. Install and pressure test BOPE.
2. Pull tubing and packer.
3. Retrieve 2-7/8" liner and clean out well.
4. Plug back with cement from 8016' to 7920'.
5. Install and gravel pack new 2-3/8" production liner.
6. Install new packer, 2-7/8" tubing and return well to gas storage operation.

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

Address Box 3249, Terminal Annex
(Street)

Los Angeles, CA 90051
(City) (State) (Zip)

Telephone Number (213) 689-3925

Southern California Gas Company
(Name of Operator)

Type of Organization Corporation
(Corporation, Partnership, Individual, etc.)

By N.W. Buss for R. W. Weibel, Agent
(Name)

Signature [signature] (Date) 11/28/89

OG123 (3/82/GSR1/5M)

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

No.P 289-347
Field Code 010
Area Code 00
New Pool Code 30
Old Pool Code 30

PERMIT TO CONDUCT WELL OPERATIONS

R.W. Weibel, Agent
Southern Calif. Gas Company
810 S. Flower St.
Los Angeles, CA. 90017

Ventura, California
October 12, 1989

Your proposal to rework well "SFZU" P-34, A.P.I. No. 037-00721, Section 28, T. 3 N, R. 16W, S.B. B.&M., Aliso Canyon field, any area, Sesnon-Frew pool, Los Angeles County, dated 9/29/89, received 10/2/89, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Blowout prevention equipment conforming to DOG Class III 3M requirements shall be installed and maintained in operating condition at all times.
2. Hole fluid of a quality and in sufficient quantity is used to control all subsurface conditions in order to prevent blowouts.
3. Blowout prevention practice drills are conducted at least weekly and recorded on the tour sheet.
4. This office shall be consulted before initiating any changes or additions to this proposed operation, or if operations are to be suspended.
5. THIS DIVISION SHALL BE NOTIFIED:
   a. To witness a pressure test of the blowout prevention equipment before commencing downhole operations.

Blanket Bond
SF:ljg

Engineer Steve Fields

Phone (805) 654-4761

M.G. MEFFERD, State Oil and Gas Supervisor

By Patrick J. Kinnear
Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.
OG111

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
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 cancelled.

FOR DIVISION USE ONLY		
BOND	FORMS	
	OGD 114	OGD 121
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 "SF-2U ~~Porter~~ 34 (Well designation), API No. 037-00721

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 8016'

2. Complete casing record, including plugs and perforations (present hole)

	13-3/8"	cemented at 529', 54.5# J-55
	7"	cemented 7760', WSO on shoe.
304'	5"	liner landed at 8016', slotted 7742'-8016', scabbed with cement, 7888'-7861' and 7842'-7805'. Top of liner 7712'.
315'	2-7/8"	liner landed 8009', 18 mesh Gru-V-Kut perforated 7729'-8009'. Lead seal liner hanger on top and closed at bottom. Top of liner 7694'.

3. Present producing zone name Sesnon ; Zone in which well is to be recompleted _____

4. Present zone pressure 3000 psi ; New zone pressure _____

5. Last produced Gas storage well (Date) _____ (Oil, B/D) _____ (Water, B/D) _____ (Gas, Mcf/D) _____

(or)

Last injected _____ (Date) _____ (Water, B/D) _____ (Gas, Mcf/D) _____ (Surface pressure, psig)

6. Is this a critical well according to the definition on the reverse side of this form? ☐ (Yes) ☒ (No)

The proposed work is as follows:

1. Move in rig and kill well. Install and pressure test BOPE.
2. Pull tubing and packer.
3. Retrieve 2-7/8" liner and clean out well.
4. Install and gravel pack new 2-3/8" production liner.
5. Install new packer, 2-7/8" tubing and return well to gas storage operation.

Note: If well is to be redrilled, show proposed new bottom-hole coordinates and true vertical depth.

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

Address Box 3249, Terminal Annex (Street)
Los Angeles, CA 90051 (City) (State) (Zip)
Telephone Number (213) 689-3925

Southern California Gas Company (Name of Operator)
By N. W. Buss for R. W. Weibel, Agent (Name-Printed)
(Name-Signature) 9/29/89 (Date)
Type of Organization Corporation (Corporation, Partnership, Individual, etc.)

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator SOUTHERN CALIFORNIA GAS COMPANY Field or County Aliso Canyon
Well name and No. PORTER #34, Sec. 28, T 3N, R 16W, S.B.B. & M.
A.P.I. well No. 037-00721 Name P. S. Magruder, Jr. (Person submitting report) Title Agent (President, Secretary or Agent)
Date November 10, 1977

Signature P. S. Magruder

P.O. Box 3249, Terminal Annex, Los Angeles, California 90051 (Address) (213) 689-3561 (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 1977	
9-24	Killed well with 320 barrels of 83#/cu.ft. polymer drilling fluid. Had 3000 psi on casing and tubing when started.
10-8	Moved California Production Service Rig #D-4 from Standard Sesnon #12 and rigging up.
10-9	Rig and crew idle.
10-10	Finished rigging up. Circulated to dispel gas from drilling fluid. Removed Christmas tree and installed Class III 5000 psi B.O.P.E. Tested blind rams and pipe rams to 4000 psi and Hydril bag to 3000 psi with water. Tested blind rams and pipe rams to 4000 psi with nitrogen and Hydril bag to 3000 psi. Witnessed and approved by D.O.G. Unseated Baker Lok-Set packer. Circulated to dispel gas from drilling fluid. Pulling tubing.
10-11	Continued pulling tubing. Ran 6" bit and 7" casing scraper to top of liner at 7694' and pulled out of well. Ran 364' of 1 1/4" drill tubing inside 2 7/8" liner to bottom at 8009'. No fill. Pulled to top of liner and circulated well clean.
10-12	Pulled out and laid down 1 1/4" cleanout string. Ran Baker Lok-Set bridge plug and set same at 7675'. Tested with 1700 psi. Displaced brine-polymer drilling fluid with fresh water with surfactant. Ran Baker fullbore cementer and tested casing, as follows: 3500' to 8009' with 2700 psi for 60 minutes 3500' " Surface " 3000 psi " 60 " 2700' " " " 3200 psi " 60 " All above tests O.K.
10-13	Tested casing, as follows: 2300' to Surface with 3400 psi for 60 minutes 1800' " " " 3800 psi " 60 " 800' " " " 4000 psi " 60 " All above tests O.K. Pulled Baker fullbore cementer and ran Baker retrieving tool. Displaced water with brine-polymer drilling fluid and recovered bridge plug. Ran Baker 7" Model "D" packer on GO-International wireline and set packer at 7675'.

1977

10-14 Assembled safety system and seals and Hydrotested to 5000 psi. Running production tubing, changing couplings, applying Baker seal and Hydrotesting to 5000 psi.

10-15 Continued Hydrotesting tubing and safety system. Latched into packer and tested latch with 20,000# over tubing weight. Landed tubing with 10,000# on packer - hook load = 46,000#. Removed B.O.P.E. Installed and tested Christmas tree to 5000 psi. Displaced brine-polymer drilling fluid with waste salt water. Set plug in NO-GO nipple and pressure tested packer and seals to 2000 psi. Recovered plug from NO-GO nipple. Checked all wellhead valves (closed). RIG RELEASED at 10:00 P.M. (10-15-77).

jp

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Report on Operations

No. T 277-300

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

Santa Paula Calif.
October 24, 1977

DEAR SIR:

Operations at well No. "SFZU" P-34, API No. 037-00721, Sec. 28, T. 3N, R. 16W, S.B., B & M. Aliso Canyon Field, in Los Angeles County, were witnessed on October 10, 1977. Mr. T. E. Adams, representative of the supervisor was present from 1630 to 1730. There were also present Mr. C. B. Todd, Contract foreman

Present condition of well: No additions to casing record since proposal dated 9/3/77.

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

DECISION:

THE BLOWOUT PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

r

M. G. MEFFERD
JOHN F. MATTHEWS, Jr.
State Oil and Gas Supervisor

By John L Hardin Deputy

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

No. P 277-3/4

REPORT ON PROPOSED OPERATIONS

Santa Paula, California

Sept. 23, 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 "SFZU" F-34 (Name and number), A.P.I. No. 037-00721, Section 28, T. 3N, R. 16W, S.B. B. & M., Aliso Canyon field, Los Angeles County, dated 9-15-77, received 9-22-77, 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,3M shall be installed on the 7" casing.
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
Deputy Supervisor

John L. Hardoin

OG111 (11-76—GSR1—30M)

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS RECEIVED
SEP 22 1977
SANTA PAULA, CALIFORNIA

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 operations are commenced. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.

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 #34, 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:

1. Total depth. 8020'

2. Complete casing record, including plugs and perforations:

13 3/8" cemented 529'

7" cemented 7760', WSO on shoe

304' 5" landed 8016', slotted 7142'-8016', scabbed with cement 7888'-7861' and 7842'-7805', top of liner 7712'

315' 2 7/8" landed 8009', 18-mesh Gru-V-Kut, perforated 7729'-8009', top of liner 7694'

3. Present producing zone name SESNON Zone in which well is to be recompleted -

4. Present zone pressure 3650 psi New zone pressure -

5. Last produced _____ (Date) Gas Storage Well (Oil, B/D) _____ (Water, B/D) _____ (Gas, Mcf/D)

or

6. Last injected _____ (Date) _____ (Water, B/D) _____ (Gas, Mcf) _____ (Surface pressure, psig.)

The proposed work is as follows:

1. Move in and rig up. Kill well. Install B.O.P.E. and pressure test.
2. Pull tubing, clean out to 8009'. Pressure test 7" casing.
3. Perform any remedial work indicated by pressure testing.
4. Set packer. Run tubing with down-hole safety system.
5. Return well to gas storage operations.

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 (City) California (State) 90051 (Zip)
Telephone Number (213) 689-3561

SOUTHERN CALIFORNIA GAS COMPANY (Name of Operator)
By P.S. Magruder (Name) P.S.Magruder, Jr. (Date) 9-15-77
Type of Organization Corporation (Corporation, Partnership, Individual, etc.)

OG107 (8-75—GSRI—15M)

PORTER #34 - Aliso Canyon

Program to Run New Packer, Pressure Test Casing, and Run New Downhole Safety Valve.

Casing or Tubing Withdrawal Only

Take All Measurements from Original Derrick Floor 6.92' Above Ground.

PRESENT CONDITIONS:

13 3/8" cemented 529' 54.5# J-55

7" cemented 7760', WSO on shoe.

304' 5" landed 8016', slotted 7742'-8016', scabbed with cement, 7888'-7861' and 7842'-7805'. Top of liner 7712'

315' 2 7/8" landed 8009', 18 mesh Gru-V-Kut perforated 7729'-8009' (2' blank at each collar). Lead seal liner hanger on top, closed on bottom. Top of liner 7694'.

7' CASING DETAILS:

		100% Safety Factor Burst	Collapse
0 - 3647'	23# J-55	4360 psi	3600 psi
3647' - 3938'	24# J-55	4570	3870
3938' - 5378'	23# N-80	6320	4330
5378' - 6952'	26# N-80	7250	5380
6952' - 7760'	29# N-80	8160	6900

TUBING DETAILS:

2 7/8" 8rd EUE J-55 landed 7678'
Baker "No-Go" Nipple 7678'
Baker Lok-Set packer 7645'
Baker "F" nipple 7610'
Baker "F" nipple 7678'
Baker sliding sleeve 7546'

PROGRAM:

1. Move in and rig up. Pressure test well head seals to 3500 psi.

2. Kill well with 83# per cu.ft. brine polymer drilling fluids. Check bottom hole pressure before moving in rig. Vomume of well=320 bbls.

3. Install back pressure valve in doughnut. Remove Christmas tree. 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. Use float valve.

4. Unseat packer and pull tubing.

5. Run 6" bit and casing scraper. Clean out to top of 2 7/8" liner at 7694'. Run 1 1/4" tubing and clean out to 8009'.

6. Set bridge plug at 7675'. Circulate brine polymer drilling fluid out of well with fresh water treated with surfactant. Using retrievable retainer and cement truck pressure test casing as follows:

7675' - surface 2000 psi for 20 minutes
2000' - surface 2500 psi for 20 minutes
1250' - surface 3000 psi for 20 minutes
750' - surface 3500 psi for 20 minutes
250' - surface 4000 psi for 20 minutes

Retrieve bridge plug.

7. Perform any remedial work indicated by pressure testing.

8. Run Baker "Retrieva-D" packer on wire line and using reference collars set packer near 7675'. Do not set pa cker in a collar.

9. Run 2 7/8" tubing, change collars, clean pins, apply Baker seal and hydro-test tubing to 5000 psi holding each test for one minute. Tubing to include:

Baker production tube
Baker 4 seals
Baker Latch-in locator
Camco 10' heavy wall tube
Camco 1.81" "No-GO" nipple with 2 7/8" threads
Camco 20' heavy wall tube
Camco 2 7/8" annular flow safety system
One joint 2 7/8" tubing
Camco empty gas lift mandrel with pump-out device

10. Install back pressure valve. Remove B.O.P.E. Reinstall Christmas tree. Pressure test Christmas tree to 5000 psi.

11. Circulate brine polymer drilling fluid out of well with waste salt water. Set tubing plug in "No-Go" nipple. Pressure test seals and packer to 2000 psi. Remove tubing plug and release rig.

G. C. ABRAHAMSON

cc: Rig Supervisor
Contract Pusher (2)
Well File
Spare Copy
Book Copy

J. Melton
B. Jones
D. Smiley
D. Justice)
M. Grijalva)

GCA/nd
9/10/77

Division Oil & Gas ✓

FORM 103 SUBMIT IN DUPLICATE △ OSP

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR Pacific Lighting Service Co. FIELD Aliso Canyon

Well No. Porter 34, Sec. 28/27, T. 3N, R. 16W, S.B. B. & M.

Date March 3, 19 75 Signed P. S. Magruder Jr.
P. S. Magruder, Jr.

P. O. Box 54790, Terminal Annex
Los Angeles, Cal. 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 1974	
11-13	Moved in California Production Service rig, pump and shaker table.
11-14	Using Otis wireline Service, removed HD valve from 509' and gas valve from 7645'. Set mandrel and plug at 7790'.
11-15	Using Halliburton pump truck, circulated 82#/cu. ft. calcium chloride polymer drilling fluid to kill well. Volume of well 320 barrels.
11-16	Conditioned mud to 82#/cu. ft. Circulated well free of gas. Set tubing plug at 303'. Removed Xmas tree, installed and tested B.O.P.E. with clear water. Blind ram to 3000 psi. Pipe rams to 3000 psi and Hydril bag to 2300 psi. Using nitrogen, tested pipe rams at 2800 psi and Hydril at 2000 psi. Each test 20 minutes. Test Ok.
11-17	Idle.
11-18	No tubing or casing pressure. Using Otis wireline Service, pulled tubing plug from 303', mandrel and one way plug from 7790'. Pulled 2-7/8" x 7", 29# Guiberson RMC-1 packer from 7646' and Guiberson GW 2-3/8" x 5" 2 cup packer from 7868'. Ran in hole with 6" bit and 7" casing scraper.
11-19	Tagged top of liner at 7712'. Pulled out and ran in with 4-1/8" bit and 5" casing scraper. Found fill at 8000'. H tubing safety valve on bottom. Cleaned out to 8014'. Bottom of liner 8016'. Circulated hole clean.

1974

11-20 Ran Dresser Atlas Neutron Lifetime log from 8006-6950'. Dresser Atlas cement bond log from 7740'-5070'. Set Baker Model "B" Lok-Set retrievable bridge plug at 7700'. Tested bridge plug and casing with mud at 2000 psi 20 minutes Ok.

11-21 Removed B.O.P.E. and tubing head. Using jacks, unlanded 7" casing with 201,000# pull. Removed casing slips and cut off well head.

11-22 Installed new 5000 psi McEvoy casing head. Butt welded to 13-3/8" surface pipe 4" below head. X-Rayed weld Ok. Using jacks, landed 7" casing in slips with 200,000#. Installed seal flange and tubing head.

11-23 Tested seal flange and tubing head four places at 3000 psi 20 minutes each. Test Ok. Installed B.O.P.E. Tested with clear water. Pipe rams at 2800 psi, Hydril at 2400 psi. Using nitrogen, tested Hydril at 2000 psi and pipe rams at 2800 psi. Each test 20 minutes. Test Ok. Ran in to 5497' with Baker Model "C" fullbore retrievable cementer.

11-24 Idle.

11-25 Using Halliburton pump truck, pressure tested casing with mud.

Surface to 7705'	2400 psi	20 minutes	Ok
Surface to 5500'	2600 psi	20 minutes	Ok
Surface to 4000'	2800 psi	20 minutes	Ok
Surface to 2500'	3000 psi	20 minutes	Ok
Surface to 1000'	3400 psi	20 minutes	Ok

Pulled bridge plug loose at 7700'. Circulated well free of gas.

11-26 Ran in with 4-1/8" bit, 5" casing scraper, wire brush and bumper sub. Tagged bottom at 8013'. Circulated hole clean.

11-27 Brushed and washed perforations, three strokes per stand from 8016' to 7742'. Pulled out of hole and ran in with 9 joints of Gru-V-Kut 0.018 mesh 2-7/8" 8 thrd. rd. EUE J-55 with bull plug shoe, one blank 2-7/8" 8 thrd. rd. J-55 and Burns liner hanger with lead seal. Top of liner at 7694'-Bottom at 8009'. (Details attached).

1974

11-28 Idle.

11-29 Hammered lead seal with 4-3/4" drill collar. Tested seal with mud at 1000 psi 20 minutes. Test Ok. Pulled setting tool, left 3 pieces of iron in hole 1/2" wide, 1/8" thick and 3" long. Made feeler run with Otis wireline tools, stopped at 7715'. Pulled up and worked down to 8009'. Made another run to bottom, no restrictions.

11-30 Ran in hole with production string (see tubing detail). Set Baker Lok-Set retrievable casing packer at 7645' with 12,000 lbs. Bottom of tubing at 7678'. Removed B.O.P.E. and installed new Xmas tree. Tested same two places at 4500 psi. Each test 20 minutes Ok. All tubing hydrotested to 5000 psi Ok. Changed well over with lease salt water.

12-1 Idle.

12-2 Rigged down C.P.S. rig, pump and shaker table. Released rig at 11:00 AM.

1974

LINER DETAIL

Top of liner hanger	7694'		
	7694'	to 7729'	Blank
	7729'	to 7758'	Perforated
	7758'	to 7760'	Blank
	7760'	to 7789'	Perforated
	7789'	to 7791'	Blank
	7791'	to 7820'	Perforated
	7820'	to 7823'	Blank
	7823'	to 7852'	Perforated
	7852'	to 7854'	Blank
	7854'	to 7883'	Perforated
	7883'	to 7885'	Blank
	7885'	to 7915'	Perforated
	7915'	to 7917'	Blank
	7917'	to 7946'	Perforated
	7946'	to 7948'	Blank
	7948'	to 7976'	Perforated
	7976'	to 7978'	Blank
	7979'	to 8007'	Perforated
	8007'	to 8009'	Blank

1974

TUBING DETAIL

Below K. B.	12.50	
1 2-7/8" EUE 8 thrd.	6.16	
1 2-7/8" EUE 8 thrd.	6.08	
244 jts. 2-7/8" EUE J-55	7518.70	
Baker Model "L" sliding sleeve (open)	2.75	7546
1 2-7/8" EUE 8 thrd. J-55	31.00	
1 Baker Model "F" landing nipple	.97	7578
1 2-7/8" EUE J-55	31.00	
1 Baker Model "F" landing nipple	.97	7610
1 2-7/8" EUE J-55	31.25	
2-1/2" x 7" 29# Baker Lok-Set packer	4.00	7645
1 2-7/8" 8 thrd. J-55	31.88	
Baker Model "R" No-Go nipple	.81	7678
2-7/8" chamfered collar	.75	7678

FORM 156

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

REPORT OF PROPERTY AND WELL TRANSFER

Field or County: Los Angeles — District: 1

Former Owner: Getty Oil Company — Date: Sept. 26, 1968

Description of Property: Sec. 27,28,34, T. 3 N., R. 16 W., S. B. B. & M.

Sec. 27:
"Fernando Fee" 32 (037-00686)
"Porter" 12 (037-00701)
" 30 (037-00717)
" 31 (037-00718)
" 32 (037-00719)

List of Wells
"Porter" 36 (037-00723)
" 37 (037-00724)
" 45 (037-00732)

Sec. 28:
"Porter" 4 (037-00699)
" 25 (037-00712)
" 26 (037-00713)
" 34 (037-00721)
" 35 (037-00722)
" 38 (037-00725)
" 39 (037-00726)

Sec. 28:
"Porter" 40 (037-00727)
" 41 (037-00728)
" 42 (037-00729)
" 43 (037-00730)
" 44 (037-00731)
" 46 (037-00733)
" 47 (037-00734)
"Porter-Sesnon" 42 (037-00753)

Sec. 34:
"Fernando Fee" 31 (037-00685)
" 33 (037-00687)
" 34 (037-00688)
" 35 (037-00689)
"Mission-Adrian Fee" 3 (037-00693)
" 4 (037-00694)
" 5 (037-00695)

Date of Transfer: August 1, 1968
New Owner: GETTY OIL COMPANY, OPERATOR
Address: 3450 Wilshire Boulevard, Room 720
Los Angeles, California 90005
Telephone No. 381-7151

Type of Organization: Corporation
Reported by: C. G. Nelson for Getty Oil Co. & Getty Oil Co., Operator (letter of 8-7-68)
Confirmed by:
New Operator New Status PA , Old Operator New Status PA
Request Designation of Agent No

Remarks:

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

Wm. C. Bailey
Deputy Supervisor

	INITIALS	DATE
Form 121		
New Well Cards		
Well Records		
Electric Logs		
Production Reports		
Map and Book		
Form 148		
Notice to be cancelled		
Bond status		

LEGEND
PA—Producing Active
NPA—Non Potential Active
PI—Potential Inactive
NPI—Non Potential Inactive
Ab—Abandoned or No More Wells

FORM 157

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)

FORM 100

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

WELL SUMMARY REPORT

SUBMIT IN DUPLICATE

DIVISION OF OIL AND GAS
RECEIVED
JUL 16 1956
LOS ANGELES, CALIFORNIA

P.24

24

Operator TIDEWATER OIL COMPANY Well No. Porter #34

Sec. (27)28, T. 3 N, R. 16 W, S B B. & M. Aliso Canyon Field Los Angeles County.

Location 2412' S and 2230.24' W of Station #84
(Give location from property or section corner, or street center lines)

Elevation of ground above sea level 2017.02 feet.

All depth measurements taken from top of Derrick Floor which is 6.92 feet above ground.
(Derrick Floor, Rotary Table or Kelly Bushing)

In compliance with Sec. 3215, of the Public Resources Code, 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 June 4, 1956 Signed T. E. Weaver

R. M. Burns (Engineer or Geologist) W. D. Goold (Superintendent) Title T. E. Weaver, Agent (President, Secretary or Agent)

Commenced ~~drilling~~ Scabbing 9/29/55

Completed ~~drilling~~ Scabbing 11/13/56

Total depth 8020' Plugged depth —

Junk 52' - 13 3/8" 54.5# 477-529

GEOLOGICAL MARKERS — DEPTH

Geologic age at total depth: Miocene

Commenced producing 11/14/55 (Date) Swabbing circ. oil ~~flowing/gas lift/pumping~~ (Cross out unnecessary words)

Name of producing zone Sesnon

	Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
12/13/55 Initial production	63/18 hr.	22.0	24.0	192	150#	2200#
Production after 30 days	13	22.0	4.2	21	50#	2150#

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 perforation
13-3/8"	455'	0'	54.5#	New	Seamless	J-55	17"	300	
7"	7760'	0'	23,24, 26,29#	New	"	J-55, N-80	11"	500	
5"	8016'	7712'	17.93#	New	"	N-80	6"	-	

PERFORATED CASING
(Size, top, bottom, perforated intervals, size and spacing of perforation and method.)

5" csg., Pf. 7742'-7805', 80 M x 2", 12 rows w/6" centers by Kobe
7805'-7842' (ineff.); 7861'-7888' (ineff.)
7842'-7861', 80 M x 2", 12 rows w/6" centers by Kobe
7888'-8016', 80 M x 2", 12 rows w/6" centers by Kobe

Electrical Log Depths — (Attach Copy of Log)

FORM 103

SUBMIT IN DUPLICATE

STATE OF CALIFORNIA

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
JUL 16 1956
LOS ANGELES, CALIFORNIA

History of Oil or Gas Well

OPERATOR Tidewater Oil Company FIELD ALISO CANYON

Well No. Porter #34, Sec. (27) 28, T. 3 N, R. 16 W, S.B. B. & M.

Date ____, 19____ Signed J. E. Weaver

June 4, 1956 (Address) (Telephone Number) Title T. E. WEAVER, AGENT (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	
9/28	Killed well with salt water. Rigging up.
9/29	Rigging up. Circulated salt water.
9/30	Spotted 20 cu. ft. of sand and gel on bottom.
10/1	Pulled and set back 2-7/8" tubing. Made up 2-7/8" drill-tubing with bit and scraper and cleaned out excess sand and gel to 7890'.
10/2	Ran M & T scabbing tool and washed interval 7885'-7860' with 500# pressure and interval 7830'-7810' with 1000-1200#. Mixed 35 sacks C.H.T. and scabbed interval 7885'-7860'. Pulled tool to 7845' and backscuttled an estimated 30 sacks cement. Time 5:38 AM. Mixed 35 sacks C.H.T. and scab cemented interval 7830'-7810'. Pulled tool to 7795' and backscuttled an estimated 15 sacks. Time 7:29 AM. O.W.C. Ran bit and scraper on 2-7/8" drill-tubing and located top of cement at 7802'. Drilled out cement and stringers to 7830'. Cleaned out from 7830' to 7875' then drilled out cement and stringers from 7870'-7890'.
10/3	Ran M & T scabbing tool and pressure tested intervals 7885'-7860' and 7830'-7810'. Intervals would not hole 1500#. Mixed 35 sacks C.H.T. and scabbed interval 7885'-7860'. Pulled tool to 7845' and backscuttled an estimated 25 sacks. Time 3:58 PM. Mixed 35 sacks C.H.T. and scabbed interval 7830'-7810'. Pulled tool to 7795' and backscuttled an estimated 20 sacks. Time 5:23 PM. O.W.C.
10/4	Drilled out hard cement from 7804' to 7808', cement stringers from 7808' to 7868', and hard cement from 7868' to 7890'. Circulated hole clean.
10/5	Ran M & T scabbing tool and pressure tested intervals 7890'-7860' and 7831'-7808'. The following intervals held 1500# for 15 minutes: 7888'-7861'; 7830'-7827'; 7826'-7822'; 7820'-7819'; 7811'-7809'. Washed interval 7833'-7710'. Mixed 35 sacks C.H.T. and with tool at 7833', displaced 5 sacks. Displaced an additional 7 sacks over interval 7833' to 7810'. Pulled tool to 7795' and backscuttled an estimated 30 sacks. Time 3:30 PM. O.W.C.
10/6	Drilled out hard cement from 7801' to 7806', cement stringers from 7806' to 7830', then hard cement from 7830' to 7842'.
10/7	Ran M & T scabbing tool and pressure tested interval 7885'-7842' which held 1500# for 3 minutes. Ran bit and scraper and cleaned out to 8016'. Ran M & T scabbing tool and washed perforated interval from 8016'-7956'.
10/8	Washed perforations from 7956'-7842'. Backscuttled hole clean. Laid down 2-7/8" drill tubing.
10/9	Ran 2-7/8" tubing with packer and choke and set at 7820'. Tested packer at 7820' with 1500#. Found slight leak. Reset packer at 7817'. Had slight leak

OPERATOR: TIDEWATER OIL COMPANY

WELL: Porter #34

1955

10/9 (cont.) at 1500#. Reset packer at 7825'. Had slight leak at 1500#. Pulled up to change pup joint and could not get in "J" slot. Reinstalled cellar connections and pulled tubing and packer. Found "J" slot damaged. Changed packer and checked choke. Reran packer and tubing. Located tubing leak by hydrotesting.

10/10 Landed 2-7/8" tubing with packer at 7818'. Had slight leak at 1500#. Reset packer at 7838'. Held 1500# for one hour. Pulled Otis blank choke, tore out cellar connections, tested tubing head and installed Christmas tree. Began swabbing at 9:30 PM. Swabbed approximately 110 barrels circulating salt water in 8-1/2 hours.

10/11 Swabbed well. Began flowing 7:00 AM. In 23 hours well flowed 154 barrels, all circulating salt water through a 11/64" bean. Tubing pressure 50-1200#; casing pressure 1500#. Released California Production Service 11:00 AM. Tearing out.

10/12 In 24 hours well flowed 40 barrels, all circulating salt water, then turned to gas. 2000/2000# tubing and casing pressures.

10/13 Installed blank choke with 8/64" bean. Tubing pressure did not bleed down. Shut in 12:30 AM (10-14-55). 2000/2300# pressures.

10/14-15 Shut in.

10/16 Killed well with salt water.

10/17 Ran tubing plug and established hole in tubing by pressure testing.

10/18 Pulled tubing. Found several holes at 7788'. Tubing 50' above packer badly sand cut. Replaced bottom 3 joints with N-80 tubing. Relanded packer at 7837'. Pressured annulus and formation took fluid at 1600# without circulating.

10/19 Pulled blank choke. Installed Christmas tree and rigged up to swab. Swabbed well in at 5:00 PM. Shut in well.

10/20 Ran 5/64" bottom hole choke. Swabbed 30 barrels salt water. Well began flowing at 2:00 PM. Well flowed 158 barrels gross, approximately 15 barrels net, est. 90.0% cut. Maximum casing pressure 2200#; tubing pressure 1900#.

10/21 Replaced 5/64" bottom hole choke with blank choke. Well would not bleed down. Tubing pressure 2200#; casing pressure 2200#. Shut in at 5:00PM.

10/22-24 Shut in.

10/25 Shut in. Preparing to kill well and lower packer to S-8 scab.

10/26 Killed well with 360 barrels formation water. Removed Christmas tree. Well started to flow. Reinstalled Christmas tree and killed well with an additional 160 barrels formation water. Tubing and casing pressures 800#.

10/27 Ran blank choke but could not get below 7812'. Pumped in 160 barrels of weighted salt water. Tubing and casing pressures 500#.

10/28 Ran 1-5/8 " feeler in tubing to 7838'. Ran and set blank choke. Pumped 40 barrels salt water through tubing with 600# pressure. Stopped pumping and pressure dropped off and fluid dropped down tubing. Hooked up and pumped 70 barrels salt water down annulus with 500# pressure. Pressure increased to 650# without communication. Bled down annulus, pumped an additional 25 barrels salt water and had circulation through tubing. Pulled choke, found bottom cup washed off and choke sand cut.

10/29 Killed well with 320 barrels of oil emulsion mud and circulated out approximately 100 barrels salt water. Attempted to lower packer to S-8 scab but found 5" liner bridged at 7872'. Pulled up 3' but unable to reset packer.

OPERATOR: TIDEWATER OIL COMPANY

WELL: Porter #34

1955

10/30 Pumped in additional 30 barrels oil emulsion mud to fill hole. Pulled tubing and packer and found three holes above packer and tubing badly sand cut from 7788'-7791'. Packer frozen with sand. Ran feeler and found hole bridged at 7872' (S-8 scab).

10/31 Installed B.O.P. Ran tubing with sawtooth collar and cleaned out bridge from 7872' to 7875' (S-8 scab) and sand from 8000' to 8016'. Circulated hole clean.

11/1 Ran 2-7/8" tubing with blank choke and landed on packer at 7838' with 10,000#. Special heavy nipple from 7785'-7795' (3" O.D. - 2" I.D.). Applied 1200# pressure to annulus for 15 min. without circulation. Pulled blank choke and circulated out mud with salt water.

11/2 Ran 5/64" choke. Swabbed 125 barrels circulating salt water. Fluid level 3500-4000'. Shut in to install 3/64" choke. Tubing pressure 1500#; casing pressure 1100#.

11/3 Pulled 5/64" choke. Found hole in choke slightly sand cut. Ran 3/64" choke. Swabbed 125 barrels circulating salt water. Well started flowing at 3:00 PM through 4/64" surface bean. Pressures 1200/1200#. In 15 hours well flowed intermittently 4 barrels of salt water and gas. Surface bean plugging. Pressures 500/1300#.

11/4 In 8 hours well flowed 6 barrels circulating salt water. Well died. Rigging up to swab.

11/5 In 24 hours well swabbed and flowed 140 barrels circulating salt water, 3/64" bottom hole choke, 1200/1700#, 92 MCF.

11/6 In 6 hours well flowed 24 barrels circulating salt water, 3/64" bottom hole choke, 4/64" surface bean, 1600/2250#. Shut in at 12:00 Noon to equalize pressures.

11/7 Pulled 3/64" choke and ran blank choke. Well started flowing at 11:00 AM. In 5 hours well flowed 25 barrels gross, 9 barrels net, 64.0% cut, 1850/2250#, estimated 450-650 MCF. Shut in at 4:00 PM.

11/8 Spotted dye in annulus and had communication through tubing in 2-1/2 hours.

11/9 Killed well with 72# mud. Ran tubing plug and established hole in tubing by pressure testing.

11/10 Circulated out gas cut mud and installed B.O.P. Pulled tubing.

11/11 Finished pulling tubing. Could not find leak.

11/12 Reran tubing with tubing plug and tested in stages with 1000# Pulled tubing plug and installed blank choke. Set packer at 7810' (top of S6 scab) and tested with 1800# for 15 min. without circulation. Pulled blank choke, tore out B.O.P. and installed Christmas tree.

11/13 Circulated out mud with salt water, then circulated out salt water with oil. Installed blank choke.

11/14 Swabbed 76 barrels of circulating oil and water in 8 hours. Fluid level 5000'. Casing pressure 450#.

11/15 In 16 hours swabbed 87 barrels gross, approximately 43 barrels net, estimated 50.0% cut, fluid level 5500'.

11/16 In 23 hours swabbed 100 barrels gross, approximately 50 barrels net, estimated 50.0% cut. Fluid level 3000-5500'.

11/17 In 24 hours swabbed 90 barrels gross, approximately 36 barrels net, estimated 60.0% cut, fluid level 6000'. Fluid rising 500-600' in one-half hour.

OPERATOR: TIDEWATER OIL COMPANY

WELL: Porter #34

1955

11/18	In 6 hours swabbed 23 barrels gross, approximately 11 barrels net, estimated 50.0% cut. Fluid level 5000-6000'.
11/19	In 16 hours swabbed 60 barrels gross, 30 barrels net, 50.0% cut. Fluid level 5000-6000'.
11/20	In 16 hours swabbed 52 barrels gross, 26 barrels net, 50.0% cut. Fluid level 5000-6000'. Swabbing heavy oil with slugs of water.
11/21	In 61 hours swabbed 55 barrels gross, 17 barrels net, 68.0% cut. Fluid level 2500-6000'.
11/22	In 4 hours swabbed 30 barrels gross, 15 barrels net, 50.0% cut. Fluid level 2200-6000'. Pumped in 36 barrels of oil. Attempted to pull choke which would not come loose.
11/23	Attempted to pull choke which would not come loose.
11/24-28	Shut in.
11/29	Fluid level 500'. In 6 hours swabbed 54 barrels gross, approx. 27 barrels net, est. 50.0% cut. Fluid level 6000'.
11/30	Pulled blank choke and replaced with 3/64" choke. Started swabbing at 11:00 AM. In 13 hours swabbed 74 barrels gross, 37 barrels net, 50.0% cut. Fluid level 5500'-6000'. Well showing more gas.
12/1	In 16 hours swabbed 68 barrels gross, 34 barrels net, estimated 50.0% cut. Fluid level 1900'-6000'.
12/2	Fluid level 1800'. In 8 hours swabbed 38 barrels gross, 19 barrels net, estimated 50.0% cut. Fluid level 6500'. No casing pressure; very little gas.
12/3	Fluid level 1400'. In 8 hours swabbed 44 barrels gross, 22 barrels net, estimated 50.0% cut. Fluid level 6500'. No casing pressure; very little gas.
12/4	Fluid level 1400'. In 8 hours swabbed 48 barrels gross, 24 barrels net, estimated 50.0% cut. Fluid level 6500'. No casing pressure; very little gas.
12/5	Pulled 3/64" bottom hole choke and swabbed well in. Well flowed 65 barrels circulating oil from annulus. Shut in with 1800# on tubing; 250# on casing.
12/6	Reran 3/64" bottom hole choke and bled down tubing. Well would not flow through tubing. Opened casing and well flowed 57 barrelscirculating oil. 450# tubing pressure; 900# casing pressure.
12/7	In 24 hours well flowed through casing 45 barrels gross, 44 barrels net, 2.0% cut, 5/64" bean, 750/1450#. 94 MCF, 2089 GOR.
12/8	In 24 hourswell flowed through casing 46 barrels gross, 45 barrels net, 2.0% cut, 5/64" bean, 800/1900#, 171 MCF gas, 3800 GOR.
12/9	In 22 hours well flowed through tubing 14 barrels net, 3/64" bottom hole choke, 30/64" surface bean, 50/2000#.
12/10	In 24 hours well flowed through tubing 2 barrels net, 3/64" bottom hole choke, 30/64" bean, 50/2000#.
12/11	Well died. Shut in to equalize pressures.
12/12	Shut in to equalize pressures.
12/13	Pulled 3/64" choke and installed 5/64" choke. In 18 hours well flowed 83 barrels gross, 63 barrels net, 24.0% cut, 28/64" bean, 150/2200#, 192 MCF, 3050 GOR.
12/14	In 24 hours well flowed 79 barrels gross, 51 barrels net, 33.0% cut, 5/64" bottom hole choke, 28/64" surface bean, 150/2200#, 404 MCF, 7922 GOR.
12/15	In 3 hours well flowed 10 barrels gross, 7 barrels net, 33.0% cut, 5/64" bottom hole choke, 28/64" surface bean, 150/2200#. Shut in to equalize pressures.

24

OPERATOR: TIDEWATER OIL COMPANY

WELL: Porter #34

1955

12/16 Replaced 5/64" choke with 4/64" choke. Well flowed 6 barrels gross fluid to 6:00 AM (12-17-55) through a 28/64" bean. Pressures 50/2200#.

12/17 In 24 hours well flowed 12 barrels gross, 9 barrels net, 25.0% cut, 4/64" bottom hole choke, 28/64" surface bean, 50/2200#.

12/18 Well died. By-passed traps but well would not flow. Shut in at 4:00 PM. Pressures at 6:00 AM 12-19-55 300/2200#.

12/19 Well open to cellar from 9:00 AM to 3:00 PM. No production. Shut in to equalize pressures.

12/20 Replaced 4/64" bottom hole choke with 4.5/64" choke. In 16 hours well flowed 6 barrels gross, 6 barrels net, 5.0% cut, 4.5/64" choke, 28/64" bean, 50/2100#, 28 MCF, 4666 GOR.

12/21 In 10 hours well flowed 7 barrels gross, 7 barrels net oil, 5.0% cut, 4.5/64" choke, 28/64" bean, 25/2200#. Well died. Shut in to build up pressure. Pressures at 6:00 AM (12-22-55) 150/2200#.

12/22 Well shut in to equalize pressures. Pulled 4.5/64" choke at 4:00 PM. Bleeding down well without bottom hole choke through 4/64" surface bean. Pressures 1500/2100#.

12/23 Installed 4.5/64" choke. In 16 hours well flowed 58 barrels gross, 55 barrels net, 6.0% cut, 28/64" bean, 150/2250#, 257 MCF gas, 4431 GOR.

12/24 In 24 hours well flowed 71 barrels gross, 68 barrels net, 6.0% cut, 4.5/64" choke, 28/64" bean, 150/2200#, 348 MCF, 5125 GOR.

12/25 In 24 hours well flowed 54 barrels gross, 51 barrelsnet, 6.0% cut, 4.5/64" choke, 28/64" bean, 150/2200#, 348 MCF, 6824 GOR.

12/26 In 24 hours well flowed 58 barrels gross, 54 barrels net, 6.0% cut, 4.5/64" bottom hole choke, 28/64" surface bean, 150/2200#, 350 MCF, 6481 GOR.

12/27 Pulled 4.5/64" choke. Bleeding off well without choke on a 4/64" surface bean.

12/28 Installed 3.5/64" choke at 12:00 Noon. Flowed well through 5/64" surface bean. Tubing pressure dropped from 2200-1600#. Bean and lead lines froze. Well produced 8 barrels gross fluid.

	Gross	Net	Cut	Gravity	Bean	Tubing Pressure	Casing Pressure	MCF Gas	GOR
12/29	25	24	4.0%	22.0	8/64"	700#	2000#	234	9750
12/30	In 4 hours well flowed 4 barrels gross fluid. Shut in due to excessive gas-oil ratio.								
12/31	Shut in.								

1956

1/1-2	Shut in.								
1/3	Replaced 3.5/64" choke with blank choke. In 12 hours well flowed:								
	15	14	4.0%	22.0					
1/4	21	20	4.0%	22.0	13/64"	50#	2250#	27	1285
1/5	21	20	4.0%	22.0	16/64"	200#	2150#	36	1714
1/6	32	31	4.0%	22.0	16/64"	100#	2200#	40	1290
1/7	19	18	4.0%	22.0	16/64"	100#	2200#	32	1684
1/8	25	24	4.0%	22.0	16/64"	300#	2000#	41	1640
1/9	21	20	4.0%	22.0	16/64"	200#	2200#	not gauged	
1/10	21	20	4.2%	22.0	16/64"	150#	2200#	26	1238
1/11	16	15	4.2%	22.0	16/64"	150#	2200#	28	1750

OPERATOR: TIDEWATER OIL COMPANY

WELL NO.: Porter #34, Aliso Canyon Field

1956	Gross	Net	Cut	Gravity	Bean	Tubing Pressure	Casing Pressure	MCF Gas	GOR
1/12	22	21	4.2%	22.0	16/64"	150#	2250#	28	1333
1/13	14	13	4.2%	22.0	16/64"	150#	2200#	20	1531
1/14	17	16	4.2%	22.0	16/64"	150#	2200#	25	1506
1/15	22	21	4.2%	22.0	16/64"	100#	2000#	26	1238
1/16	14	13	4.2%	22.0	16/64"	50#	2150#	20	1531
1/17	21	20	4.2%	22.0	16/64"	50#	2150#	23	1150
1/18	14	13	4.2%	22.0	16/64"	50#	2150#	21	1615

CASING RECORD

	13-3/8"	54.5#	C	445'
	7"	23, 24, 26, 29#	C	7760'
304'	5"	17.93#	L	8016' Top 7712' Pf. 7742'-8016' Scab 7805'-7842'; 7861'-7888'

JUNK

52' 13-3/8" 54.5# 477'-529'

TUBING RECORD

2-7/8" L w/pkr. @ 7810' (S-6 scab)

FORM 111 11-48

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS

No. P 155-1538

Mr. Thomas E Weaver
Box Y
LOS NIETOS California
Agent for TIDE WATER ASSOCIATED OIL CO

Los Angeles 15 Calif
September 29 19 55

Dear Sir:

Your proposal to alter casing Well No. "Porter" 34,

Section 27, T. 3 N, R. 16 W, S B B. & M., Aliso Canyon Field, Los Angeles County,

dated Sept. 27 1955, received Sept.28 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:

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

The shut-off at 7760' was approved.

THE NOTICE STATES

"The present condition of the well is as follows:

1. Total depth. 8020'
2. Complete casing record.

13-3/8"	54.5#	C 445'	
7"	23, 24, 26, 29#	C 7760'	
304' 5"	17.93#	L 8016'	Top 7712" Pf. 7742'-8016'

Junk: 52' 13-3/8" 54.5# 477'-529'

3. Last produced. Feb., 1955 (Date) | 8 B/D (Net Oil) | 22.5 (Gravity) | 2.0% (Cut)"

PROPOSAL

"The proposed work is as follows:

1. Fill 5" liner with sand and gel from 8016' to 7890'.
2. Scab cement well from 7885'-7860' and 7830'-7810' and pressure test intervals until scabbed off effectively.
3. Clean out to bottom of liner and wash perforations.
4. Run tubing with packer set from 7830' to 7810', and test effectiveness of packer.
5. Swab and complete well."

DECISION

THE PROPOSAL IS APPROVED.

FEK: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 _____, Deputy

FORM 107.

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
SEP 28 1955
LOS ANGELES, CALIFORNIA

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

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

Los Nietos Calif. Sept. 27 19 55

DIVISION OF OIL AND GAS

Los Angeles Calif.

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of ~~deepening, redrilling, plugging or~~ altering casing at Well No. Porter #34
(Cross out unnecessary words)

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

Aliso Canyon Field, Los Angeles County.

The present condition of the well is as follows:

1. Total depth. 8020'

2. Complete casing record.

	13-3/8"	54.5#	C	445'
	7"	23, 24, 26, 29#	C	7760'
304'	5"	17.93#	L	8016' Top 7712'
			Pf.	7742'-8016'

Junk: 52' 13-3/8" 54.5# 477'-529'

3. Last produced. Feb., 1955 (Date) 8 B/D (Net Oil) 22.5 (Gravity) 2.0% (Cut)

The proposed work is as follows:

1. Fill 5" liner with sand and gel from 8016' to 7890'.
2. Soab cement well from 7885'-7760' and 7830'-7810' and pressure test intervals until scabbed off effectively.
3. Clean out to bottom of liner and wash perforations.
4. Run tubing with packer set from 7830' to 7810', and test effectiveness of packer.
5. Swab and complete well.

alter casing

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
			Blanket	6B	6B

TIDE WATER ASSOCIATED OIL COMPANY
(Name of Operator)

By Thomas E. Weaver
T. E. Weaver, Agent

ADDRESS ONE COPY OF NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT OFFICE

August 26 1954

Mr Thomas E Weaver
Box Y
Los Nietos California

Agent for Tide Water Associated Oil Company

Dear Mr Weaver

We have recently found our map No. 18A to be inaccurate in so far as the sectionization and basic boundaries in the Aliso Canyon field area are concerned. As a result, the numbers of the sections in which many of the wells are located have been incorrectly shown in our records. We are therefore correcting our records of the following of your wells as indicated:

From Sec. 27, T. 3 N., R. 16 W., S.B.B.& M., to Sec. 28

Wells No. "Porter" 4
"Porter" 16
"Porter" 34
"Porter" 52
"Porter" 61

From Sec. 28, T. 3 N., R. 16 W., S.B.B.& M., to Sec. 29

Wells No. "Standard-Sesnon 1" 4
"Standard-Sesnon 1" 10
"Standard-Sesnon 1" 12
"Standard-Sesnon 1" 24

Very truly yours

R. W. Walling

R W WALLING
Deputy Supervisor

FEK:my
cc - Messrs E H Musser
T L Wark
J R Bovyer (2)
R S Curl

FORM 100.
CALIFORNIA STATE PRINTING OFFICE

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

DIVISION OF OIL AND GAS
RECEIVED
JUN 30 1945
LOS ANGELES, CALIFORNIA

p.34

WELL SUMMARY REPORT

Operator TIDE WATER ASSOCIATED OIL COMPANY Field Aliso Canyon

Well No. Portez #34 Sec. 27 28, T. 3 N, R. 16 W, S.B. B. & M.

Location 2412.08' S & 2230.24' W of Station #34 Elevation of derrick floor / ground above sea level 2024 feet.

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 6/18/45 Signed E. A. Curl

G. O. Steffer (Engineer or Geologist) E. A. Curl (Superintendent) Title Agent (President, Secretary or Agent)

Commenced drilling 12/24/44 Completed drilling 3/30/45 Drilling tools Cable / Rotary

Total depth 8020' Plugged depth

Junk 52' - 13-3/8", 54.5# 477-529

GEOLOGICAL MARKERS	DEPTH

Commenced producing 5/1/45 (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 (8 hrs)	1251 (B/D rate)	22.5	0.0	650 (M/D rate)	425#	550#
Production after 30 days	340	22.0	0.6	162	600#	1250#

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 perforation
13-3/8"	~~445~~ 497*	0'	54.5#	New	Seamless	J-55	17"	300	
7"	7760	0'	26#, 29#	New	Seamless	J-55	11"	500	
5"	8015	7712'	17.93#	New	Seamless	A-50	6"		

Perforations

Size of Casing	From	To	Size of Perforations	Number of Rows	Distance Between Centers	Method of Perforations
5"	7742 ft.	8015 ft.	60 mesh x 2"	12	6	Kobe
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				

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

Electrical Log Depths 449' - 8020' (Attach Copy of Log)

* corrected to agree with amount of casing shown in history

FORM 103. 39946 11-44 25M
CALIFORNIA STATE PRINTING OFFICE

SUBMIT IN DUPLICATE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR TIDE WATER ASSOCIATED OIL COMPANY FIELD Aliso Canyon

Well No. Porter #34, Sec. 27 28, T. 3 S, R. 16 W, S.B. B. & M.

Signed R. A. Daul

Date 6/18/45 Title Agent

(President, Secretary or Agent)

Use this form in reporting all important operations at the well, together with the dates thereof, in the order of their performance. Such operations include drilling, redrilling, deepening, plugging, or altering casing as by perforating, shooting, or pulling. Include in your report size of hole drilled, redrilled, or deepened; size, weight and length of casing landed, cemented, or removed, amount and location of perforations; number of sacks of cement used in cementing or plugging operations, number of feet of cement drilled out of casing, location of top and bottom of cement plugs. If the well was dynamited, give date, dimensions and weight of all shots. If tests were made give interval tested and results of tests, such as, amount and nature of fluids recovered.

Date	
	LOCATION: 2412.08' south and 2230.24' west from station #84
	ELEVATION: 2023.94'
	A. PREPARING TO DRILL
1945	
10/9-14	Graded rig site.
10/15	Idle.
10/16-21	Graded rig site.
10/22	Idle.
10/23-28	Graded rig site.
10/29	Idle.
10/30-31	Grade rig site.
11/1-3	Dug cellar.
11/4	Built forms.
11/5	Poured concrete
11/6-8	Built rig.
11/9	Idle.
11/10-11	Idle on account of storm
11/12	Idle.
11/13-19	Idle.

FORM 103. 39946 11-44 25M
CALIFORNIA STATE PRINTING OFFICE

SUBMIT IN DUPLICATE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR TIDE WATER ASSOCIATED OIL COMPANY FIELD Aliso Canyon

Well No. Porter #34, Sec. ~~27~~ 28, T. 3 N, R. 16 W, S.B. B. & M.

Signed E. A. Engl

Date 6/18/45 Title Agent
(President, Secretary or Agent)

Use this form in reporting all important operations at the well, together with the dates thereof, in the order of their performance. Such operations include drilling, redrilling, deepening, plugging, or altering casing as by perforating, shooting, or pulling. Include in your report size of hole drilled, redrilled, or deepened; size, weight and length of casing landed, cemented, or removed, amount and location of perforations; number of sacks of cement used in cementing or plugging operations, number of feet of cement drilled out of casing, location of top and bottom of cement plugs. If the well was dynamited, give date, dimensions and weight of all shots. If tests were made give interval tested and results of tests, such as, amount and nature of fluids recovered.

Date	Depth	
1945		
11/20		Wired rig.
11/21-22		Idle.
11/23		Wired rig.
11/24-26		Idle.
11/27		Wired rig.
11/28-12/16		Idle.
12/17-19		Moved in equipment.
12/20-23		Moved in and rigged up rotary.
		B. DRILLING TO 8020'
12/24	55'	Spudded 12¼" hole at 6:00 AM. Drilled 12¼" hole from 0' to 55'.
12/25-31	440'	Drilled 12¼" hole from 55' to 440'.
1945		
1/1	497	Drilled 12¼" hole from 440' to 497'. Opened 12¼" hole to 17" from surface to 110'
1/2		Opened 12¼" hole to 17" from 110' to 497'. Cemented 13-3/8", 54.5#, Grade J-55, Youngstown T&C casing at 497' with 300 sacks Colton Construction cement. Last 150 sacks treated. Pressure upped from 100# to 300# when plugs bumped. Had no cement returns to surface. Time 11:10 PM. Mixing time 12 minutes. Displacing time 19 minutes. Calculated displacing fluid 434 cu.ft. Actual displacing fluid 454 cu.ft. International Cementers, Inc.
1/3		Cemented around top of 13-3/8" casing with 20 sacks Blue Diamond cement. Landed casing and installed cellar connections.
1/4-10	972'	Located top of plugs and cement at 482'. Cleaned out to 497' and drilled 12¼" hole from 497' to 972'.

FORM 103. 39946 11-44 25M
CALIFORNIA STATE PRINTING OFFICE

SUBMIT IN DUPLICATE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
JUN 30 1945
LOS ANGELES, CALIFORNIA

History of Oil or Gas Well

OPERATOR TIDE WATER ASSOCIATED OIL COMPANY FIELD Aliso Canyon

Well No. Porter #34, Sec. 28 27, T. 3 N, R. 16 W, S.B. B. & M.

Signed E. A. Engl

Date 6/18/45 Title Agent
(President, Secretary or Agent)

Use this form in reporting all important operations at the well, together with the dates thereof, in the order of their performance. Such operations include drilling, redrilling, deepening, plugging, or altering casing as by perforating, shooting, or pulling. Include in your report size of hole drilled, redrilled, or deepened; size, weight and length of casing landed, cemented, or removed, amount and location of perforations; number of sacks of cement used in cementing or plugging operations, number of feet of cement drilled out of casing, location of top and bottom of cement plugs. If the well was dynamited, give date, dimensions and weight of all shots. If tests were made give interval tested and results of tests, such as, amount and nature of fluids recovered.

Date 1945	Depth	
1/11	1020'	Drilled 12¼" hole from 972' to 980'. Cored 9-5/8" hole from 980' to 1000'. Opened 9-5/8" hole to 12¼" from 980' to 1000'. Drilled 12¼" hole from 1000' to 1020'.
1/21-17	1446'	Drilled 12¼" hole from 1020' to 1446'.
1/16	1521'	Drilled 12¼" hole from 1446' to 1506'. Cored 9-5/8" hole from 1506' to 1521'. Opened 9-5/8" hole to 12¼" from 1506' to 1518'.
1/19	1636'	Opened 9-5/8" hole to 12¼" from 1518' to 1521'. Drilled 12¼" hole from 1521' to 1636'.
1/20-21	1829'	Drilled 12¼" hole from 1636' to 1807'. Laid down 6-5/8" drill pipe. Made up 5-9/16" drill pipe and reduced size of hole from 12¼" to 11" at 1807'. Drilled 11" hole from 1807' to 1829'.
1/22-24	2055'	Drilled 11" hole from 1829' to 2008'. Cored 9-5/8" hole from 2008' to 2023'. Opened 9-5/8" hole to 11" from 2008' to 2023'. Drilled 11" hole from 2023' to 2055'.
1/25-28	2514'	Drilled 11" hole from 2055' to 2502'. Cored 9-5/8" hole from 2502' to 2514'.
1/29	2622'	Cored 9-5/8" hole from 2514' to 2518'. Opened 9-5/8" hole to 11" from 2502' to 2518'. Drilled 11" hole from 2518' to 2622'.
1/30-2/2	2933'	Drilled 11" hole from 2622' to 2933'. Tore out transmission. Repaired equipment. Waited on new transmission.
2/3-4	2984'	Installed new transmission. Drilled 11" hole from 2933' to 2965'. Cored 9-5/8" hole from 2965' to 2984'. Repaired pumps.
2/5-9	3510'	Drilled 11" hole from 2984' to 3490'. Cored 9-5/8" hole from 3490' to 3506'. Opened 9-5/8" hole to 11" from 3490' to 3506'. Drilled 11" hole from 3506' to 3510'.
2/10-11	3767'	Drilled 11" hole from 3510' to 3706'. Cored 9-5/8" hole from 3706' to 3722'. Opened 9-5/8" hole to 11" from 3706' to 3722'. Drilled 11" hole from 3722' to 3767'.

FORM 103. 39946 11-44 25M
CALIFORNIA STATE PRINTING OFFICE

SUBMIT IN DUPLICATE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR TIDE WATER ASSOCIATED OIL COMPANY FIELD Aliso Canyon

Well No. Porter #34, Sec. 27-28, T. 3 N, R. 16 W, S.B. B. & M.

Signed E. A. Earl

Date 6/18/45 Title Agent
(President, Secretary or Agent)

Use this form in reporting all important operations at the well, together with the dates thereof, in the order of their performance. Such operations include drilling, redrilling, deepening, plugging, or altering casing as by perforating, shooting, or pulling. Include in your report size of hole drilled, redrilled, or deepened; size, weight and length of casing landed, cemented, or removed, amount and location of perforations; number of sacks of cement used in cementing or plugging operations, number of feet of cement drilled out of casing, location of top and bottom of cement plugs. If the well was dynamited, give date, dimensions and weight of all shots. If tests were made give interval tested and results of tests, such as, amount and nature of fluids recovered.

Date 1945	Depth	
2/12	3850'	Drilled 11" hole from 3767' to 3850'. Changed lines.
2/13-14	4016'	Drilled 11" hole from 3850' to 4004'. Cored 9-5/8" hole from 4004' to 4016'.
2/15-3/8	5933'	Drilled 11" hole from 4016' to 5933'. Laid down 5-9/16" drill pipe. Started making up 4½" drill pipe.
3/9-20	6902'	Drilled 11" hole from 5933' to 6902'. Repaired equipment.
3/21-4/3	7472'	Drilled 11" hole from 6902' to 7471'. Lost tong pin in hole at 7471'. Ran 10-3/8" Globe junk bowl from 7471' to 7472'.
4/4	7477'	Ran 10-3/8" Globe junk bowl from 7472' to 7473'. Did not recover tong pin. Tried to mill up or side track fish. Drilled 11" hole from 7473' to 7477'.
4/5-13	7691'	Drilled 11" hole from 7477' to 6791'. Ran Schlumberger electric log at 7691'. Electric log indicated surface pipe parted at 445' with 52' fish 477-529'.
4/14-15	7750'	Drilled 11" hole from 7691' to 7750'. Ran Schlumberger electric log at 7750'. Changed lines.
4/16-17	7760'	Reamed 11" hole to 7750' and drilled and reamed 11" hole from 7750' to 7760'. Cemented 7" Youngstown Speedtite casing at 7760' with 500 sacks Victor High Temperature cement. Pressure jumped from 700# to 1100# when plugs bumped. Time 9:25 PM. Mixing time 24 minutes. Displacing time 45 minutes. Calculated displacing fluid 1691 cu.ft. Actual displacing fluid 1673 cu.ft. International Cementers, Inc. Detail of casing as follows: 0 to 3646.5 is 23# Grade J-55 3646.5 to 3937.7 is 24# Grade J-55 3937.7 to 5377.8 is 23# Grade N-80 5377.8 to 6951.5 is 26# Grade N-80 6951.5 to 7760.0 is 29# Grade N-80

FORM 103. 39946 11-44 25M
CALIFORNIA STATE PRINTING OFFICE

SUBMIT IN DUPLICATE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR TIDE WATER ASSOCIATED OIL COMPANY FIELD Aliso Canyon

Well No. Porter #34, Sec. 27 28, T. 3 N, R. 16 W, S.B. B. & M.

Signed E. A. Conf

Date 6/18/45 Title Agent
(President, Secretary or Agent)

Use this form in reporting all important operations at the well, together with the dates thereof, in the order of their performance. Such operations include drilling, redrilling, deepening, plugging, or altering casing as by perforating, shooting, or pulling. Include in your report size of hole drilled, redrilled, or deepened; size, weight and length of casing landed, cemented, or removed, amount and location of perforations; number of sacks of cement used in cementing or plugging operations, number of feet of cement drilled out of casing, location of top and bottom of cement plugs. If the well was dynamited, give date, dimensions and weight of all shots. If tests were made give interval tested and results of tests, such as, amount and nature of fluids recovered.

Date 1945	Depth	
4/18	7760	Stood cemented. Laid down 4½" drill pipe.
4/19		Stood cemented. Installed cellar connections.
4/20		Stood cemented. Made up 2-7/8" drill pipe.
4/21	7761'	Located top of cement at 7715'. Made casing test O.K. with 1500# for one half hour. Cleaned out to 7760' and drilled 6" hole from 7760 to 7761'.
4/22	7765'	Drilled 6" hole from 7761' to 7765'. Ran Johnston tester on 2-7/8" drill pipe. Set packer at 7720'; bottom of tail pipe 7740'. Opened 3/8" bean 2 hours and 15 minutes. Had light to fair gradually decreasing to very weak blow of air. Recovered 497' (1.9 bbls.) slightly oily and gassy drilling mud. Salinity of water filtered from sample taken at tester 48 grains per gallon. Pressure recorder indicated valve open throughout test with 100# to 200# flow pressure. W.S.O. approved by D.O.G.
4/23-25	8020'	Drilled 6" hole from 7765' to 8020'. Ran Schlumberger electric log at 8020'. Reamed 6" hole from 7760' to 8020'.
4/29		Landed 304' of 5", 17.93# Grade N-80 Hydril inserted Youngstown casing at 8016; top of Burns liner hanger 7712'; perforated 7742-8036'; perforations are 80 mesh Kobe; 12 rows; 2" slots; 6" center; 6° undercut. Prepar to run tubing.
4/30		Hung 2-7/8", 6.5# and 2-3/8", 4.7#, Grade J-55, round thread, upset Youngstown tubing at 7895'; bottom 331' are 2-3/8". Installed Xmas tree. Began circulating and thinning mud.
5/1		Circulated and thinned mud to water. Well began flowing to sump at 11:00 AM. Turned to tanks at 10:00 PM. In 6 hours well flowed 453 bbls. gross fluid; 417 bbls. approximate net oil (1251 B/D net rate); 22.5 dry gravity; 8.0% average cut; 30/64" bean; 425# tubing pressure; 550# casing pressure; 550 M/D gas rate. Cut at 6:00 AM. 5/2/45 4.0% cut.

FORM 103. 39946 11-44 25M
CALIFORNIA STATE PRINTING OFFICE

SUBMIT IN DUPLICATE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

History of Oil or Gas Well

TIDE WATER ASSOCIATED OIL COMPANY — OPERATOR
Aliso Canyon — FIELD

Porter #34 — Well No.
27-28 — Sec.
3 N — T.
16 W — R.
S.B. — B. & M.

Signed R. A. Engle

6/18/45 — Date

Agent — Title
(President, Secretary or Agent)

Use this form in reporting all important operations at the well, together with the dates thereof, in the order of their performance. Such operations include drilling, redrilling, deepening, plugging, or altering casing as by perforating, shooting, or pulling. Include in your report size of hole drilled, redrilled, or deepened; size, weight and length of casing landed, cemented, or removed, amount and location of perforations; number of sacks of cement used in cementing or plugging operations, number of feet of cement drilled out of casing, location of top and bottom of cement plugs. If the well was dynamited, give date, dimensions and weight of all shots. If tests were made give interval tested and results of tests, such as, amount and nature of fluids recovered.

1945
5/2 — Depth 8020'

Well flowed 884 bbls. gross fluid; 866 bbls. approximate net oil; 22.0 dry gravity; 2.0% average cut; 30/64" to 15/64" bean; 775# tubing pressure; 900# casing pressure; 347 MCF gas.

5/3

Well flowed 682 bbls. gross fluid; 672 bbls. approximate net oil; 22.0 dry gravity; 1.5% cut; 13/64" to 32/64" bean; 825# tubing pressure; 1000# casing pressure; 270 MCF gas. During a four hour test during which the bean was opened to 32/64" the well flowed271 bbls. gross fluid; 266 bbls. approximate net oil (1608 B/D net rate) 22.0 dry gravity; 1.0% cut; 32/64" bean; 500# to 400# tubing pressure; 950# to 700# casing pressure; 127 MCF gas. Following flow test well was pinched back to 13/64".

Date 1945	Gross Fluid	Approximate Net Oil	Dry Gravity	Cut	Bean	Tubing Pressure	Casing Pressure	Gas MCF	Hours On
5/4	400	396	22.0	1.0	13/64"	850#	1040#	180	24
5/5	417	409	22.0	2.0	13/64"	825#	1020#	191	24
5/6	434	427	22.0	1.5	13/64"	800#	1000#	201	24
5/7	984	969	22.0	1.5	13/64"	500#	800#	473	24
5/8	984	969	22.0	1.5	13/64"	500#	800#	384	24
5/9	522	518	22.0	0.7	12/64"	800#	1100#	248	24
5/10	78	77	22.0	1.0	12/64"	1050#	1250#	49	7½
5/11	Shut-in					1050#	1250#		
5/12	Shut-in					1050#	1250#		
5/13	Shut-in					1050#	1250#		
5/14	Shut-in					1050#	1250#		
5/15	265	263	22.0	016	14/64"	800#	1100#	195	24
5/16	376	374	22.0	0.6	14/64"	800#	1100#	292	24
5/17	375	373	22.0	0.5	14/64"	800#	1100#	207	24
5/18	391	389	22.0	0.6	14/64"	800#	1100#	239	24
5/19	375	373	22.0	0.5	14/64"	820#	1100#	174	24
5/20	367	365	22.0	0.5	14/64"	800#	1100#	175	24
5/21	358	355	22.0	0.8	14/64"	800#	1125#	170	24
5/22	339	353	22.0	1.2	14/64"	800#	1140#	168	24
5/23	392	391	22.0	0.2	14/64"	800#	1150#	186	24
5/24	401	400	22.0	0.2	14/64"	800#	1150#	193	24
5/25	367	366	22.0	0.2	14/64"	800#	1175#	178	24
5/26	376	373	22.0	0.8	14/64"	800#	1175#	180	24

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SUBMIT IN DUPLICATE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR TIDE WATER ASSOCIATED OIL COMPANY FIELD Aliso Canyon

Well No. "Porter" #34, Sec. 27 28, T. 3 N, R. 16 W, S.B. B. & M.

Signed R. A. Engle

Date 6/18/45 Title Agent
(President, Secretary or Agent)

Use this form in reporting all important operations at the well, together with the dates thereof, in the order of their performance. Such operations include drilling, redrilling, deepening, plugging, or altering casing as by perforating, shooting, or pulling. Include in your report size of hole drilled, redrilled, or deepened; size, weight and length of casing landed, cemented, or removed, amount and location of perforations; number of sacks of cement used in cementing or plugging operations, number of feet of cement drilled out of casing, location of top and bottom of cement plugs. If the well was dynamited, give date, dimensions and weight of all shots. If tests were made give interval tested and results of tests, such as, amount and nature of fluids recovered.

Date

Date 1945	Gross Fluid	Approximate Net Oil	Dry Gravity	Cut	Bean	Tubing Pressure	Casing Pressure	Gas MCF	Hours On
5/27	355	355	22.0	0.8	14/64"	800#	1175#	171	24
5/28	342	341	22.0	0.2	14/64"	800#	1200#	168	24
5/29	343	341	22.0	0.6	14/64"	800#	1200#	161	24
5/30	333	330	22.0	0.8	14/64"	800#	1225#	166	24
5/31	342	340	22.0	0.6	14/64"	800#	1250#	162	24

CASING RECORD

13-3/8", 54.5# C 445'.
7", 23#, 24#, 26#, & 29# C 7760'. 0'-3646' is 23#; 3646'-3938' is 24#; 3938'-5376' is 23#; 5376'-6952' is 26#; 6952'-7760' is 29#.

304' - 5" 17.93# L 8016'. Top 7712'. Perf. 7742'-8016'.

JUNK

52' - 13-3/8", 54.5# 477-529

TUBING RECORD

2-3/8", 4.7# & 2-7/8", 6.5# E 7695'. 0'-7564' is 2-7/8"; 7564'-7695' is 2-3/8"

SIZE OF HOLE

0' - 497' is 17"
497' - 1807' is 12¼"
1807' - 7760' is 11"
7760' - 8020' is 6"

VP

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121

FORM 101
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator TIDE WATER ASSOCIATED OIL COMPANY Field Elise Canyon

Well No. Porter #34 Sec. ~~27~~ 28, T. 3 N, R. 16 W, S.B. B. & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO Top of Formation	DEPTH TO Bottom of Formation	Thickness	Drilled or Cored	Recovery	DESCRIPTION
0	23		Drilled		Surface sand
23	55		"		Hard sand
55	175		"		Sand and shale
175	185		"		Hard sand and shale
185	203		"		Sand
203	336		"		Sand and shale
336	353		"		Sand
353	386		"		Hard sand
386	404		"		Hard sand and shale
404	504		"		Sand and shale
504	507		"		Hard sand
507	887		"		Sand and shale
887	905		"		Hard shale
905	980		"		Sand and shale
			9-5/8" Reed Conventional Core		
980	1000		Cored	16'0"	3'-0" Fragments altered sandstone and shale in gouge matrix. Highly fractured and slickensided. Occasional rounded igneous pebble and cobble from 1/8" to 4" in diameter (Fault breccia). 13'-0" Shale. Hard. Dark brown. Foraminiferal. Highly fractured and slickensided with occasional streak rewor ed material and zones of gouge and gilsonite to 0'-2" in thickness. Indication of 45° dip on fracture planes. Sometimes with spots free heavy oil in fractures.
1000	1506		Drilled		Sand and shale
			9-5/8" Reed Conventional Core		
1506	1521		Cored	7'6"	4'-0" Shale. Fairly hard. Dark gray to brown. Fractured and slickensided. Sometimes badly so. Occasional zone of re-worked material. Indication of 40° dip on fracture planes. 3'-6" Conglomerate. Pebbles and fragments of re-worked shale in silt and sand matrix. Pebbles are pounded to sub

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STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator TIDE WATER ASSOCIATED OIL COMPANY Field Aliso Canyon

Well No. Porter (#34 Sec. ~~27~~ 28, T. 3 S, R. 16 W, S.B. B. & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO Top of Formation	DEPTH TO Bottom of Formation	Thickness	Drilled or Cored	Recovery	DESCRIPTION
1506	1521				angular and up to 1½" in diameter.
1521	2006		Drilled		Sand and shale
			9-5/8" Rapd Conventional Core		
2006	2023		Cored	5'6"	Conglomerate (Gravel). Firm, gray to dark green silt matrix containing varying amounts of fine to coarse sand and pebbles ranging upward to rounded cobbles 0'-2" in diameter.
2023	2502		Drilled		Sand and shale
2502	2518		Cored	15'0"	Gray sand. Firm, fine to coarse, poorly sorted, very silty. Occasional rounded pebbles to 0'-¼" in diameter. Scattered streaks and patches dark olive green in color. Dips 10° to 15°.
2518	2539		Drilled		Hard sand and shale
2539	2968		"		Sand and shale
2968	2984		Cored	14'0"	Gray sand. Firm. Fine to coarse. Pebbly. Poorly sorted. Silty. Pebbles are rounded and range upward in size to 0'-1" in diameter.
2984	3490		Drilled		Sand and shale
3490	3506		Cored	12'0"	Gray sand. Firm. Fine to medium. Silty. No cut or odor.
3506	3620		Drilled		Sand and shale
3620	3658		"		Sand and shale with hard streaks
3658	3706		"		Sand and shale
3706	3722		Cored	17'0"	Gray sand. Firm to hard. Generally fine to medium. Silty. Sometimes pebbly. In part approaches a sandstone shell. Spot and streaks are stained olive green.

Form 101
(SUBMIT ALL WHITE PRINTS EXCEPT)

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

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LOS ANGELES, CALIFORNIA

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator TIDE WATER ASSOCIATED OIL COMPANY Field Aliso Canyon

Well No. Porter#34 Sec. 27, T. 3 N, R. 16 W, S.B. B. & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO Top of Formation	DEPTH TO Bottom of Formation	Thickness	Drilled or Cored	Recovery	DESCRIPTION
3782	3923		Drilled		Sand and shale
3923	3949		"		Hard sand and shale
3949	4004		"		Sand and shale
4004	4016		Cored	3'6"	Gray sand. Firm to fairly hard. Fine to coarse. Silty. No cut or odor.
4016	4145		Drilled		Sand and shale
4145	4169		"		Sand and shale; hard streaks
4169	4189		"		Sand and hard shale
4189	4209		"		Hard sand and shale
4209	4228		"		Hard sand
4228	4249		"		Sand and shale
4249	4270		"		Hard sand and shale
4270	4326		"		Sand and shale
4326	4341		"		Hard sand and shale
4341	4368		"		Sand and shale
4368	4385		"		Sand and hard shale
4385	4404		"		Sand and shale
4404	4457		"		Hard sand
4457	5518		"		Sand and shale
5518	5534		"		Hard shale
5534	5545		"		Hard sand and shale
5545	5568		"		Sand and shale
5568	5575		"		Hard sand.
5575	5602		"		Hard sand and shale
5602	5907		"		Sand and shale
5907	5933		"		Hard sand
5933	6031		"		Sand and shale
6031	6037		"		Hard sand
6037	6066		"		Hard sand and shale
6066	6090		"		Sand and shale
6090	6112		"		Hard sand and shale
6112	6882		"		Sand and shale
6882	6959		"		Hard shale
6959	7014		"		Hard shale streaks sand
7014	7040		"		Shale streaks sand
7040	7075		"		Hard shale and sand
7075	7096		"		Hard shale streaks sand
7096	7128		"		Hard shale and sand
7128	7161		"		Hard shale
7161	7196		"		Hard shale and sand
7196	7206		"		Hard shale
7206	7219		"		Hard sand and shale

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DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

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LOG AND CORE RECORD OF OIL OR GAS WELL

Operator TIDE WATER ASSOCIATED OIL COMPANY Field Aliso Canyon

Well No. Porter #34 Sec. 27 28, T. 3 N, R. 16 W, S.B. B. & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO Top of Formation	DEPTH TO Bottom of Formation	Thickness	Drilled or Cored	Recovery	DESCRIPTION
7219	7276		Drilled		Hard shale
7276	7294		"		Hard shale streaks sand
7294	7307		"		Hard shale
7307	7323		"		Hard shale streaks sand
7323	7347		"		Sand and shale
7347	7360		"		Hard shale streaks sand
7360	7368		"		Hard shale
7368	7380		"		Hard shale and sand
7380	7385		"		Hard sand and shale
7385	7392		"		Hard shale streaks sand
7392	7418		"		Hard shale and sand
7418	7427		"		Hard sand and shale
7427	7449		"		Hard shale and sand
7449	7465		"		Sand and shale
7465	7471		"		Hard shale
7471	7473		10 -3/8" Globe Junk Bowl Cored	2'0"	Sandy siltstone. Hard dark brownish-gray/ Massive. Occasional embedded sub-rounded to rounded pebble to 0'-1" in diameter.
7473'	7475		Drilled		Hard shale
7475	7477		"		Hard sand and iron
7477	7494		"		Hard shale and iron
7494	7500		"		Hard shale
7500	7517		"		Hard shale streaks sand
7517	7616		"		Hard shale
7616	7624		"		Hard shale streaks sand
7624	7691		"		Hard shale
7691	7760		"		Hard shale streaks sand
7760	7765		"		Shale
7765	7777		"		Hard shale streaks sand
7777	7809		"		Sand and shale
7809	7823		"		Shale streaks sand
7823	7835		"		Sand
7835	7875		"		Sand and shale
7875	7893		"		Sand
7893	7928		"		Shale and sand
7928	7958		"		Sand
7958	7976		"		Sand and shell
7976	7979		"		Shell
7979	8005		"		Sand and hard streaks
8005	8011		"		Hard sand and shale

FORM 101
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STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator TIDE WATER ASSOCIATE OIL COMPANY Field Aliso Canyon

Well No. Porter #34 Sec. ~~27~~ 28, T. 3 S, R. 16 W, S.B. B. & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO Top of Formation	DEPTH TO Bottom of Formation	Thickness	Drilled or Cored	Recovery	DESCRIPTION
~~5011~~	~~5012~~		Drilled		Hard sand
5012	5020		"		CORRECTED MEASUREMENT

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121

FORM 109-A

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

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

No. T 1-43934

Los Angeles 14, Calif. April 27, 1945

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

DEAR SIR:

Your well No. "Porter" 34, Sec. ~~27~~ 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 April 22, 1945. 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. E. Thomas, Engineer, and R. W. Roberts, Drilling Foreman 26, 29

Shut-off data: 7 in. 23, 24, lb. casing was cemented at 7760 ft. on April 17, 1945 in 11" hole with 500 sacks of cement of which 8 sacks was left in casing.
Casing record of well: 13-3/8" cem. 497'; 7" cem. 7760', W.S.O.

Reported total depth 7765 ft. Bridged with cement from xxx ft. to xxx ft. Cleaned out to 7765 ft. for this test. A pressure of 1500 lb. was applied to the inside of casing for 1 min. without loss after cleaning out to 7740 ft. A Johnston tester was run into the hole on 2-7/8 in. drill pipe, with xxx ft. of water cushion, and packer set at 7720 ft. with tailpiece to 7740 ft. Tester valve, with 3/8" bean, was opened at 3:54 p.m. and remained open for 2 hr. and 15 min. During this interval there was a light steady blow for 21 minutes, light to very weak heading blow for 9 minutes, light to fairly strong heads for 5 minutes and a light steady blow gradually decreasing to a very weak blow for 1 hour, 40 minutes.

THE INSPECTOR ARRIVED AT THE WELL AT 5:10 P.M. AND MR. THOMAS REPORTED THE FOLLOWING:

1. A 12-1/4" rotary hole was drilled from surface to 1807' (reamed to 17" surface - 497').
2. On January 2, 1945, 13-3/8" 54.5 lb. casing was cemented at 497' with 300 sacks of cement.
3. An 11" rotary hole was drilled from 1807' to 7760'.

THE INSPECTOR NOTED THE FOLLOWING:

1. When the drill pipe was removed 470' of slightly gassy, slightly oily, thin drilling fluid was found in the drill pipe above the tester, equivalent to 1.8 bbl.
2. Water filtered from fluid sample taken from 30' above the bottom of drill pipe tested 48 grains of salt per gallon.
3. The recording pressure bomb chart showed that the tester valve was open throughout the test.

The test was completed at 9:30 p.m.

THE SHUT-OFF IS APPROVED.

cc - L. C. Decius
Jos. Jensen
G. C. Pfeffer (2)

JLW:ES W/E48

R. D. BUSH, State Oil and Gas Supervisor

By E. H. Musser, Deputy

36194 7-44 7500
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FORM 109-D

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 1-43881

Los Angeles 14, Calif. April 11, 1945

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

121

DEAR SIR:

Operations at your well No. "Porter" 34 Sec. ~~27~~ 28, T. 3 N., R. 16 W., S.B. B. & M., Aliso Canyon Field, in Los Angeles County, were witnessed by J. L. White, Inspector, representative of the supervisor, on April 1, 1945. There was also present Frank Wolverton, Driller, and Stanley Peck, Derrickman.

Casing Record	Junk
13-3/8" cem. 497'. T.D. 7420'.	None.

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

~~The inspector arrived at the well at ... and Mr. ... reported ...~~

THE INSPECTOR ARRIVED AT THE WELL AT 3:15 P.M. AND NOTED THAT THE WELL WAS EQUIPPED WITH THE FOLLOWING BLOWOUT PREVENTION EQUIPMENT:

1. A Hughes gate for closing in the well with the drill pipe out of the hole.
2. A Shaffer ram type gate for closing around the 4" drill pipe.
3. The control for the Shaffer gate was located outside the derrick.
4. A 3" mud fill-up line, with a 3" high pressure stopcock into the 13-3/8" casing below the above equipment.
5. An 8" shut-off gate on the mud discharge line.

The inspection was completed at 3:30 p.m.

Mr. G. C. Pfeffer reported on April 9, 1945, that the remote control handle for the Hughes gate had been installed.

THE BLOWOUT PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

JLW:OH

cc- L. C. Decius
Jos. Jensen
G. C. Pfeffer (2)

w/cy

R. D. BUSH
State Oil and Gas Supervisor
By E. H. Wiesser Deputy

28381 10-43 15M
STATE PRINTING OFFICE

FORM 111
CALIFORNIA STATE PRINTING OFFICE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P1-40301

Los Angeles 14, Calif. December 29, 1944

MR. R. S. Curl.

Los Nietos, Calif.

Agent for TIDE WATER ASSOCIATED OIL COMPANY

DEAR SIR:

Your proposal to drill Well No. "Porter" 34,

Section 28, T. 3 N., R. 16 W., S.B. B. & M., Aliso Canyon Field, Los Angeles County,

dated Dec. 26, 1944, received Dec. 27, 1944, 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 2412 feet S. and 2230 feet W. from Station #84
The elevation of the derrick floor above sea level is 2024 feet.
We estimate that the first productive oil or gas sand should be encountered at a depth of about 7750 feet."

PROPOSAL:

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

Size of Casing	Weight	Grade and Type	Depth	Landed or Cemented
13-3/8	54.5	J-55 T&C J-55 & N-80	500	Cemented
7	23, 26, & 29	Speedtite	7740	Cemented
5	18	N-80 EU	8025	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 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.

FCH:OH

cc- P. A. W.
L. C. Decius
Jos. Jensen
C. C. Pfeffer (2)

W/Q48

R. D. BUSH
State Oil and Gas Supervisor

By E. H. Musson Deputy

Blanket bond No. 43486

FORM 105
CALIFORNIA STATE PRINTING OFFICE

16

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL & GAS
RECEIVED
DEC 27 1944
LOS ANGELES, CALIFORNIA

037-00721

Notice of Intention to Drill New Well

This notice must be given and surety bond filed before drilling begins

Los Nietos Calif. December 26, 1944

DIVISION OF OIL AND GAS

Los Angeles Calif.

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of drilling well No. Porter (#)34, Sec. ~~28~~ *27, T. 3-N, R. 16-W, S. B. B. & M., Aliso Canyon Field, Los Angeles County.

Lease consists of Porter Lease

The well is 2412 feet ~~N. of~~ S., and 2230 feet ~~E. of~~ W. from Station #34
(Give location in distance from section corners or other corners of legal subdivision)

The elevation of the ~~ground~~ derrick floor above sea level is 2024 feet.

We estimate that the first productive oil or gas sand should be encountered at a depth of about 7750 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	J-55 T&C	500	Cemented
7	23, 26, & 29	J-55 & N-80 Speedtite	7740	Cemented
5	18	N-80 FJ	8025	Landed

Well is to be drilled with ~~cable~~ 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, California

TIDE WATER ASSOCIATED OIL COMPANY
(Name of Operator)

Telephone number Whittier 42-043

By R. N. Carf
Agent

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

*Correction letter 8-26-54. my

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
18a JLW.	12-27-44 JLW.	Encl	Blanket 43486	Encl	Encl