



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 Aliso Canyon County Los Angeles  
Well Standard Sesnon #12, Sec. 29, T. 3N, R. 16W, SB. B. & M.  
A.P.I. No. 037-00764 Name R. D. Phillips Title Agent  
Date February 11, 1992 (Person submitting report) (President, Secretary or Agent)

Signature R. M. Dowell

R. M. Dowell for R. D. Phillips

P. O. Box 3429 Terminal Annex, Los Angeles, CA 90051 (213) 244-2669  
(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

1992

- 1-4 Moved in and rigged up. Removed x-mas tree. Installed BOPE. Tested blind rams and 2-7/8" pipe rams to 5000 psi. Tested Hydril bag to 3000 psi. Steve Mulqueen of the DOG waived BOPE test. Shut well in.
- 1-6 Released tubing from packer at 8488'. Circulated well. Pulled out of well (tubing collars were hanging up on 6-5/8" casing bowl at 3600'). Ran tubing as follows: guide shoe, 1.875" No-Go nipple, 10' 2-3/8" pup joint, Baker Seal Assembly, 20' 2-3/8" CS Hydril blast joint, Otis 2-3/8" CS Hydril x nipple, (5)-20' 2-3/8" CS Hydril blast joints, (1)-10' 2-3/8" CS Hydril blast joint, sliding sleeve, 2 joints 2-3/8" CS Hydril tubing, anchor locator, 10 joints 2-3/8" tubing, 2-7/8" pup joint, Otis "XN" 2.25" nipple, 1 joint 2-7/8" tubing, gas lift mandrel, 48 joints 2-7/8" tubing, gas lift mandrel, 58 joints 2-7/8" tubing, gas lift mandrel, 68 joints 2-7/8" tubing, gas lift mandrel, 94 joints 2-7/8" tubing, fatigue nipple, (4) 2-7/8" pup joints, fatigue nipple.
- 1-7 Finished drifting and hydrotesting 2-7/8" tubing in well. Latched into packer at 8488'. Pulled 20,000 lbs over hook weight to check latch. Landed 10,000 lbs on tubing hanger. Removed BOPE. Installed xmas tree. Tested tree to 5000 psi. Released rig.

JUN 10 1992

VENTURA, CALIFORNIA

*Marked D.O.G. 6/9/92*

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

DIVISION OF OIL AND GAS  
RECEIVED

DEC 10 1991

**History of Oil or Gas Well**

VENTURA, CALIFORNIA

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles  
Well Standard Sesnon #12, Sec. 29, T. 3N, R. 16W, S.B.B. & M.  
A.P.I. No. 037-00764 Name R. D. Phillips Title Agent  
Date November 26, 19 91 (Person submitting report) (President, Secretary or Agent)

Signature R.M. Dowell

R. M. Dowell for R. D. Phillips

P. O. Box 3429 Terminal Annex, Los Angeles, CA 90051 (213) 244-2669  
(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

1991

- 11-04 Began moving in rig.
- 11-05 Finished moving in and rigged up.
- 11-06 Installed back pressure valve. Removed xmas tree. Installed BOPE. Tested blind rams to 5000 psi for 20 minutes. Tested choke to 5000 psi for 20 minutes. Hydro-test equipment failed. Removed back pressure valve.
- 11-07 Installed back pressure valve. Tested choke manifold, blind rams and pipe rams to 5000 psi for 20 minutes. Tested annular preventor to 3000 psi for 20 minutes. Steve Mulqueen of the DOG waived witness of the BOPE test. Unlanded donut and attempted to release from Baker Model "D" packer at 8756'. Unable to release from packer.
- 11-8 Unable to release from packer. Retrieved plug at 8828' with wireline. Attempted to release from packer without success. Freepointed tubing to 8763' (7' below packer) showing limited torque at the latch and seal assembly. Attempted to release from latch with string shot without success. Ran string shot and backed off tubing at 8387'. Pulled 3 pup joints out of well.
- 11-9 Pulled out of well and laid down 269 joints of 2-7/8" tubing, gas lift mandrel and 2' pup joint. Ran in well with skirted screw-in sub, 2 joints 2-7/8" N-80 8rd tubing, jars, four 4-3/4" drill collars and 2-7/8" drill pipe to approximately 3400'.
- 11-12 Screwed into 2-7/8" 8RD tubing. Worked seals loose from packers at 8757' and 8950'. Pulled out of well. Lost 6 of 8 seals that were located in the lower packer at 8950'. Ran kill string.

- 11-13 Pulled kill string. Made up and ran 10' x 2-3/8" sub on 6' of Baker 3.25" OD spacer seals, one 2-3/8" x 4' pup, 5 joints of 2-3/8" EUE 8RD tubing, one Baker locator sub with 1' of 3.25" OD seals, 10 joints of 2-3/8" tubing crossed over to 2-7/8" drill pipe. Landed locator sub in packer at 8756'. Attempted to run 1-11/16" collar locator to check fill depth and location of lower packer seals. Locator would not go through crossover from drill pipe to tubing.
- 11-14 Ran 1-1/2" collar locator and sinker bar (21' of tools) on wireline to top of fill at 9067'. Wireline tools stopped and stuck at bottom of packer at 8950'. Worked wireline loose and pulled out of well leaving a piece of 3/8" electric line (indicated by the end of the wire retrieved from the well), one 1" OD rope socket and 19' of sinker bar and 1-1/2" collar locator in the well. Started out of well with 2-7/8" drill pipe.
- 11-15 Pulled out of well with seals. Made up one 2-3/8" beveled collar on one 2-3/8" x 10' pup, six Baker 3.25" OD seals with 4' pup, 630' of 2-3/8" tubing crossed over to 2-7/8" drill pipe. Ran seals to 8925' and circulated well. Landed seals in packer at 8950'.
- 11-16 Made run with sinker bar and collar locator on wireline. Perforated interval from 9045' to 8963' with tubing conveyed guns.
- 11-18 Pulled out of well with seals from packer at 8950'. Made up Baker anchor seal assembly with 3.25" test seals on 10 joints of 2-3/8" tubing crossed over to 2-7/8" drill pipe. Ran seals to 8522' (34' inside the 5" liner). Seals stopped. The latch on the test seals would not go inside the top of the 5" liner. Ran kill string.
- 11-19 Pulled kill string. Made up Baker anchor seals on 10 joints of 2-3/8" tubing crossed over to 2-7/8" drill pipe to 8756'. Latched to packer and pulled 20,000 lbs over string weight to check latch. Set 10,000 lbs on packer. Pressured seals to 1500 psi for 20 minutes. Released from packer and pulled out of well laying down 2-7/8" drill pipe, drill collars and kelly. Ran kill string of 2-7/8" tubing.

- 11-20 Pulled kill string. Made up one 3-1/16" OD shoe on one Otis 1.79" NoGo, one 10' x 2-3/8" EU 8RD pup, one Baker set of the 3.25" OD seals with 2-3/8" EU 8RD pin x 2-3/8" CS Hydril box, one 19.72' blast joint, one 1' Otis 1.875" "X" nipple, one joint of 2-3/8" CS Hydril tubing, four 19.75' blast joints, one 1.875 Otis SSD, two joints of 2-3/8" CS Hydril tubing, one 3.25" OD Baker anchor seal assembly, 10 joints 2-3/8" EU 8RD N-80 tubing, one crossover to 2-7/8" EU 8RD tubing, one 2-7/8" x 4' 2-7/8" EU 8RD pup, one 2-7/8" x 2.25" XN nipple, one joint of 2-7/8" J-55 EU 8RD tubing, one 2-7/8" gas lift mandrel with 3/16" orifice. Ran in well Hydrotesting to 4000 psi installing gas lift mandrels at 6868', 5029', and 2910'. Latched into packer at 8756'. Pulled 20,000 lbs over tubing weight to check latch. Installed and Hydrotested doughnut and pup joints.
- 11-21 Displaced fluid from well with 340 Bbls of 2% KCl water double inhibited with EXXON coat 7726. Latched to packer at 8750'. Checked latch and landed doughnut with 15,000 lbs on packer at 8750'. Installed back pressure valve in doughnut. Removed BOPE and installed xmas tree. Pressure tested tree, doughnut and adapter seal to 5000 psi. Removed back pressure valve. Released rig.

STATE OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL AND GAS

REPORT ON PROPOSED CHANGE OF WELL DESIGNATION

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

November 12, 1991

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

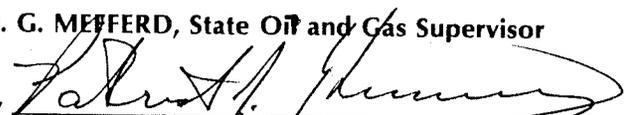
Your request, dated July 24, 1991, proposing to change the designation of well(s) in Sec. 29, T. 3N, R. 16W, S.B. B. & M., Aliso Canyon field, Los Angeles County, District No. 2, has been received.

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

<u>FROM</u>	<u>TO</u>
"SFZU" F-2 (037-00665)	"Frew" 2 (037-00665)
"SFZU" F-3 (037-00666)	"Frew" 3 (037-00666)
"SFZU" F-4 (037-00667)	"Frew" 4 (037-00667)
"SFZU" F-5 (037-00668)	"Frew" 5 (037-00668)
"SFZU" F-6 (037-00669)	"Frew" 6 (037-00669)
"SFZU" F-7 (037-00670)	"Frew" 7 (037-00670)
"SFZU" F-8 (037-00671)	"Frew" 8 (037-00671)
"SFZU" F-9 (037-00672)	"Frew" 9 (037-00672)
"SFZU" SS-4 (037-00757)	"Standard Sesnon" 4 (037-00757)
"SFZU" SS-12 (037-00764)	"Standard Sesnon" 12 (037-00764)
"SFZU" SS-4-0 (037-22063)	"Standard Sesnon" 4-0 (037-22063)
"SFZU" SS-10 (037-00040)	"Standard Sesnon" 10 (037-00040)

M. G. MEFFERD, State Oil and Gas Supervisor

By



Deputy Supervisor

PATRICK J. KINNEAR

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

No.P291- 473  
Field Code 010  
Area Code 00  
New Pool Code 30  
Old Pool Code 30

PERMIT TO CONDUCT WELL OPERATIONS

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

Ventura, California  
November 4, 1991

Your \_\_\_\_\_ proposal to rework well "SFZU" SS-12 \_\_\_\_\_,  
A.P.I. No. 037-00764, Section 29, T. 3 N, R. 16W, S.B. B.&M.,  
Aliso Canyon field, any area, Sesnon-Frew pool,  
Los Angeles County, dated 10/28/91, received 10/29/91, 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 5M 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. Wire line operations are conducted through at least a 5M lubricator.
4. This office shall be consulted before initiating any changes or additions to this proposed operation, or if operations are to be suspended.

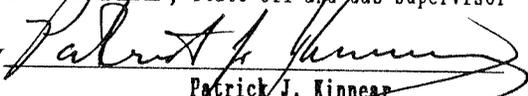
Blanket Bond  
SF:ljj

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

OCT 28 1991

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
AB	✓	✓

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 Standard Sesnon #12, API No. 037-00764  
*(Well designation)*

Sec. 29, T. 3N, R. 16W, S.B.B. & M., Aliso Canyon Field, Los Angeles County.

The present condition of the well is as follows:

- Total depth 9112'
- Complete casing record, including plugs and perforations (present hole)
  - 0' - 790' 13-3/8" 54.5 # Line pipe
  - 0' - 4830' 9-5/8" 40 # J-55, casing bowl at 3600', window at 3770'
  - 0' - 3600' 7" 23 # N-80
  - 3600' - 9110' 6-5/8" 28 # J-55, 3852'
  - 24 # N-80, 8560'
  - 28 # N-80, 9110', packers at 8756' and 8950'
  - WSO's at 8816', 8817' and 8958'
  - 5" casing patch, 8690' - 8488'
- Present producing zone name Standard Sesnon; Zone in which well is to be recompleted \_\_\_\_\_
- Present zone pressure 3100 psig; New zone pressure \_\_\_\_\_
- Last produced Gas Storage Operation  
*(Date)* *(Oil, B/D)* *(Water, B/D)* *(Gas, Mcf/D)*
- (or)  
Last injected \_\_\_\_\_  
*(Date)* *(Water, B/D)* *(Gas, Mcf/D)* *(Surface pressure, psig)*
- Is this a critical well according to the definition on the reverse side of this form?  (Yes)  (No)

The proposed work is as follows:

- Move in, rig up, and install and pressure test BOPE.
- Pull tubing and clean out well.
- Reperforate intervals, 8963' - 9045' and 9055' - 9107'.
- Test casing and packer.
- Reinstall production tubing.
- Remove BOPE, install wellhead and return well to service.

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) 244-2666

Southern California Gas Co.  
*(Name of Operator)*  
By J.B. Lane for R.D. Phillips (Agent)  
*(Name - Printed)*  
[Signature] 28 OCT 91  
*(Name - Signature)* *(Date)*

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

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

DIVISION OF OIL AND GAS  
RECEIVED

DEC - 1 1977

**History of Oil or Gas Well**

SANTA PAULA, CALIFORNIA

Operator SOUTHER CALIFORNIA GAS COMPANY Field or County Aliso Canyon  
Well name and No. STANDARD SESNON #12, Sec. 29, T 3N, R 16W, S. BB. & M.  
A.P.I. well No. 037-00764 Name P. S. Magruder, Jr. Title Agent  
Date November 7, 19 77 (Person submitting report) (President, Secretary or Agent)

Signature P. S. Magruder, Jr.

P. O. Box 3249, Terminal Annex, Los Angeles, California 90051

(213) 689-3561

(Address)

(Telephone Number)

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Date

1977

9- 9 Killed well using 74#/cu.ft. polymer drilling fluid.

9-10 Moved California Production Service Rig #D-4 from Frew #2 to Standard Sesnon #12 and rigged up.

9-11 Rig and crew idle.

9-12 Finished rigging up. Circulated polymer fluid in well to remove gas-cut drilling fluid. Tested wellhead seals. Removed Christmas tree and installed B.O.P.E. Tested with water pipe rams and blind rams to 4000 psi for 20 minutes each test. Tested Hydril bag to 3000 psi for 20 minutes. These tests were witnessed and approved by D.O.G. Conducted similar tests, using nitrogen - all tests O.K. Unseated production string from packers. Pulled above packers. Circulated polymer drilling fluid.

9-13 Pulled production string out of well. Ran in well with 6" bit and casing scraper. Stopped at 3453' or 79' above 7" x 6 5/8" crossover. Circulated polymer drilling fluid to clean well. Bled off annulus between 9 5/8" x 13". Ran in well to 8733' with sawtooth collar and 14 joints of 2 3/8" Hydril.

9-14 Cleaned fill from 9062' to 9107' with sawtooth collar. Circulated polymer drilling fluid to clean well. Pulled out and ran back in with Baker "DR" plug. Set "DR" plug in Baker packer at 8744'. Tested plug to 2000 psi. Replaced polymer drilling fluid in well with fresh water.

9-15 Pulled out of well. Ran in well with Baker fullbore and set at 3100'. Tested casing from 3100' to 8744' 2800 psi for 60 minutes. Tested from 3100' to surface at 3000 psi - indications of leak. Pulled to 2180' and started testing casing between surface and 2180' at 3000 psi - pressure dropped suddenly to zero. (Designed testing pressure 3500 psi). Filled 7" casing annulus with 115 cu.ft. water. Pumped more water at 100 psi in 7" casing, annulus pressure rose in 7" x 9 5/8" annulus. Tested from 2180' to 8744' at 1000 psi.

- 9-16 Pulled out of well. Ran back in open-ended to 8744' and replaced fresh water in well with brine-polymer drilling fluid. Pulled out of well. Ran back in with Baker full-bore. Located leak in 7" casing between 553' and 554' - final testing as follows:
- Surface to 553' at 1800 psi - O.K.  
 " " 554' " " " - unable to hold pressure  
 554' " 8744' " 1000 psi - O.K.
- Ran 17 more stands to secure well.
- 9-17 Tested 7" casing from 580' to 8740' at 2500 psi for 30 minutes - O.K. Pulled out of well and ran back in with Baker Lok-Set bridge plug and set it at 920'. Tested plug at 500 psi. Spotted 5 cu.ft. of sand on top of plug. Tagged top of sand, pulled out and ran back in with cutting knives. Made cut in 7" casing at 615'. Pulled out and ran back in ten stands to secure well.
- 9-18 Rig and crew idle.
- 9-19 Removed B.O.P.E. Unlanded 7" casing and recovered 12 1/2 joints to parted casing at 553'. Pin of Speedtite thread (Hydril EU) was damaged and jumped out of damaged box causing a leak in the casing. Ran spear and recovered 62' of 7" casing from where cut at 615'. Casing all in good condition except for one damaged connection at 553'. Ran mill and dressed stub of 7" casing at 615'. Pumped inhibitor treated brine-polymer drilling fluid in well and pulled out. Removed 10" x 13" spool to replace leaking 9 5/8" packing.
- 9-20 Casing (9 5/8") was cut off at top of casing head and therefore was no 9 5/8" secondary seal. Cleaned cellar. Removed packing from 9 5/8". Picked up 9 5/8" spear and installed casing jacks. Preparing to unland 9 5/8" and repair 13 3/8" casing.
- 9-21 Unlanded 9 5/8" casing. Found that 13 3/8" casing was parted near cellar floor. Jack-hammered out 12" of cellar. Cut off 13 3/8" casing and butt welded with casing head. This lower casing head will allow secondary seal on 9 5/8" intermediate casing.
- 9-22 Checked 13 3/8" butt weld with X-Ray. Landed 9 5/8" casing on slips with 160,000#. Packed off 9 5/8" and installed spool. Pressure tested 9 5/8" seals under 3000 psi. Ran Bowen casing bowl over 7" stub at 615'. Pulled 60,000#. Pressure tested 7" casing from surface to 900' under 4000 psi.
- 9-23 Landed 7" casing on slips in spool with 200,000# using casing jacks. Cut off 7" and installed B.O.P.E. Tested blind rams and 7" casing to 900' with 4000 psi for 20 minutes, using water. Tested seals on 7" to 4000 psi for 20 minutes. Tested blind rams with nitrogen to 4000 psi for 20 minutes.

1977

Well History of STANDARD SESNON #12 - Aliso Canyon

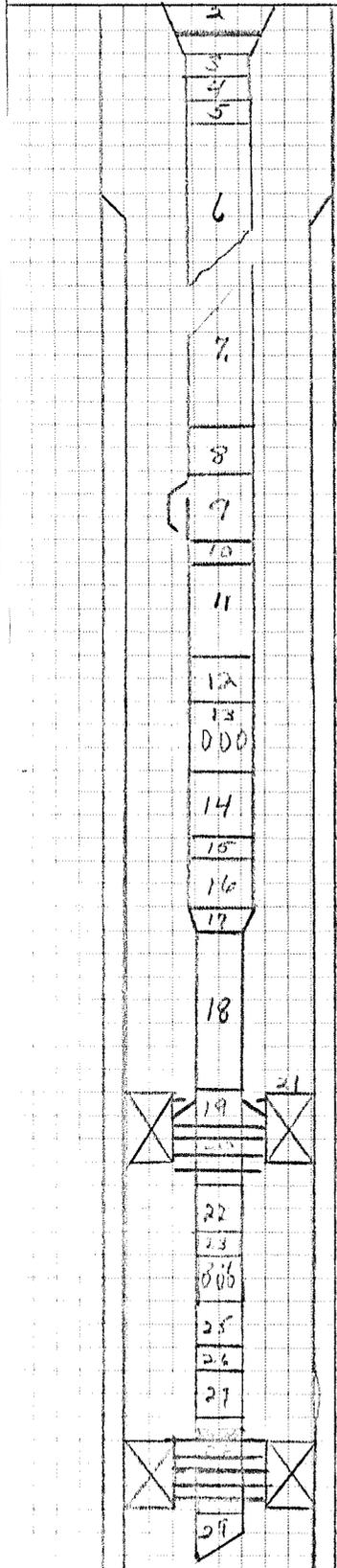
PAGE 3.

- 9-24 Ran in hole with Baker retrieving tool which would not go through casing bowl. Pulled out of hole. Removed B.O.P.E. Picked up 7" casing. Pulled out of hole, laying down 7". Recovered all new 7" 8rd casing and 274' of 7" Speedtite casing from parted connection. Top of 7" at 889'. Ran impression block on tubing - showed 7" casing. Ran casing cutter. Located sand at 910'. Cut 7" casing at 900'.
- 9-25 Rig and crew idle.
- 9-26 Pulled out with casing cutter. Ran back in with spear and recovered 10' cut piece of 7" casing top at 900'. Ran in with casing dressing tool. Dressed 7" casing stub for one hour. Pulled out. Ran in with impression block. Impression block showed rough edge of casing stub. Ran in with Baker retrieving tool and circulated polymer drilling fluid to remove sand from top of plug at 920'. Retrieved bridge plug and reset plug at 1400'. Spotted 5 sacks of sand on top of plug. Ran in and made inside cut in 7" casing at 1070'. Pulled out. Ran in with spear and recovered casing.
- 9-27 Pulled out 181' of 7" casing. Ran in with casing dressing tool. Dressed 7" casing stub for one hour. Pulled out. Ran in with impression block. Pulled out. Ran in with Bowen casing bowl and 27 joints of 7" casing. Latched on to 7" casing stub. Pulled 200,000# and set in casing slips. Started pressure testing 7" casing between surface and 1400' to 3500 psi. Casing parted at 3200 psi pressure. Pulled out 7" casing up to casing bowl.
- 9-28 Pulled out 154' of old 7" casing where the Speedtite joint had parted top of 7" stub at 1224'. Ran in well with Baker retrieving tool. Circulated polymer drilling fluid to remove sand from top of Baker bridge plug at 1400'. Recovered bridge plug and pulled out. Ran in with 6 5/8" Baker Lok-Set plug and set same at 4000'. Spotted 5 cu.ft. of sand on top of bridge plug. Pulled out. Ran in with Midway spear and latched same near top of stub. Ran McCullough free-point on wireline. Limited pulling capacity indicated movement of 7" and 6 5/8" casing at least down to 3700'. Pulled out. Ran in with inside cutter to make a cut in 6 5/8" casing at 3600'.
- 9-29 Ran inside casing cutter to 3600' and made cut in 7" casing. Pulled out. Ran in well with spear and latched onto casing and tried to pull. Unable to pull casing. Pulled out of well and ran back in with casing cutters and made cut at 2429'. Pulled out. Ran in with spear and latched onto casing and started pulling out. Pulled out 14 joints of 7" Speedtite and 25 joints of 7" 8rd casing.
- 9-30 Ran in well with 7" spear, jars and bumper sub to top of 7" casing stub at 2429'. Pulled loose and laid down with 7" and 6 5/8" casing. Top of

- 6 5/8" casing stub at 3600'. Ran in well with Midway dressing tool, worked on top of stub for one hour. Circulated bottoms up and pulled out.
- 10-1 Ran in well with impression block. Pulled out. Impression block showed inside dimension of 6 5/8" casing. Ran 7" casing with 6 5/8" Bowen casing bowl and latched on to 6 5/8" stub at 3600'. Landed casing with 150,000#. Installed slips and packing. Cut off 7" casing. Pressure tested casing seals. Reinstalled B.O.P.E.
- 10-3 Tested casing from 4000' to surface with 3700 psi for 20 minutes - O.K. Ran in to 3871' and displaced brine-polymer drilling fluid with fresh water containing surfactant. Tested casing from 4000' to surface with 3000 psi for 60 minutes - O.K. Recovered bridge plug. Ran Baker fullbore cementer to 2180'. Tested casing from 2180' to surface with 3500 psi for 60 minutes - O.K. Pulled to 800' and tested casing from 800' to surface with 4000 psi for 60 minutes - O.K. Pulled fullbore tool and started in well with Baker retrieving tool.
- 10-4 Ran to 4000'. Displaced water with brine-polymer drilling fluid. Recovered "DR" plug from packer at 8756'. Assembled seals and safety system and hydrotested to 5000 psi. Ran tubing, changing couplings, applying Baker seal and hydrotesting to 5000 psi.
- 10-5 Re-ran tubing while changing collars, cleaning threads, applying Baker seal and hydrotesting to 5000 psi.
- 10-6 Continued running completion tubing string, changing couplings, applying Baker seal and hydrotesting to 5000 psi.
- 10-7 Landed tubing with 10,000# on packer at hook load of 52,000#. Checked latch with 25,000# pull over weight of tubing. Installed tubing hanger plug and removed B.O.P.E. Reinstalled Christmas tree and pressure tested to 5000 psi. Displaced brine-polymer fluid with waste salt water. Ran tubing plug, unable to find NO-GO nipple at 8416'. Left Otis plug in 2 7/8" x 2 3/8" X-over at 8427'. Ran 2.215" plug which was set in safety system at 8395'. Pressure tested packer and seals with 2000 psi for one hour.  
RIG RELEASED at 10:00 P.M. (10/7/77).

WELL PROFILE

LKB



3502

SOUTHERN CALIFORNIA  
 OPERATOR GAS COMPANY  
 WELL # STANDARD SESNON #12  
 FIELD Aliso Canyon  
 COUNTY Los Angeles  
 STATE California  
 DATE October 11, 1977  
 NEW COMPLETION  WORKOVER

CASING	LINER	TUBING		
		1	2	3
SIZE _____				
WEIGHT _____				
GRADE _____				
THREAD _____				
DEPTH _____				

ITEM NO.	TUBING DETAILS	LENGTH	DEPTH
1.	K.B.	15.00	15.00
2.	Doughnut	.80	15.80
3.	Pup Joint 2 7/8" N-80 EUE 8rd	1.00	16.80
4.	Pup Joint 2 7/8" N-80 EUE 8rd	4.00	20.80
5.	Pup Joint 2 7/8" N-80 EUE 8rd	6.00	26.80
6.	26 Joints 2 7/8" N-80 EUE 8rd Tubing	775.37	802.17
7.	244 Joints 2 7/8" J-55 EUE 8rd Tubing	7540.47	8342.64
8.	Pup Joint N-80 2 7/8" EUE 8rd	4.09	8346.73
9.	Gas Lift Mandrel (EMPTY)	8.32	8355.05
10.	Pup Joint N-80 2 7/8" EUE 8rd	1.80	8356.85
11.	1 Joint 2 7/8" J-55 EUE 8rd Tubing	30.59	8387.44
12.	Pup Joint 2 7/8" N-80 EUE 8rd	4.11	8391.55
13.	Otis Tubing Flow Safety System (EMPTY)	3.73	8395.28
14.	Blast Joint 3 5/8" O.D.	19.89	8415.17
15.	Nipple 2.205" NO-GO	1.16	8416.33
16.	Blast Joint 3 5/8" O.D.	9.86	8426.19
17.	X-Over 2 7/8" EU x 2 3/8" EU	1.05	8427.24
18.	10 Joints 2 3/8" EUE 8rd Tubing	328.76	8756.00
	Baker Model "D" Packer .....		8756.00
19.	Baker Latch	1.05	8757.05
20.	4 Seals	3.30	8760.35
21.	2 Joints 2 3/8" EUE 8rd Tubing	59.60	8819.95
22.	Pup Joint 2 3/8" EUE 8rd J-55	6.00	8825.95
23.	Otis Sliding Side Door (OPEN)	2.86	8828.81
24.	3 Joints 2 3/8" J-55 EUE 8rd Tubing	89.39	8918.20
25.	NO-GO 1.536" Nipple X-N	1.11	8919.31
26.	1 Joint 2 3/8" EUE 8rd Tubing	31.44	8950.25
	Baker Model "D" Packer .....		8950.00
27.	10 Baker Seals	8.80	8959.55
28.	Production Tube	5.85	8965.40

COMMENTS:

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

Report on Operations

No. T 277-271

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

Santa Paula, Calif.  
Oct. 5, 1977

DEAR SIR:

Operations at well No. "SFZU" SS-12, API No. 037-00764, Sec. 29, T. 3N, R. 16W,  
S.B., B & M. Aliso Canyon Field, in Los Angeles County, were witnessed  
on 9/12/77. Mr. T. E. Adams, representative of the supervisor was  
present from 1730 to 1900. There were also present Jeevan Anand, reservoir engr.

Present condition of well: No additions to the casing record since proposal dated 9/13/77.

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

DECISION:

THE BLOWOUT PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

b

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

By John L. Har doin Deputy

# REPORT ON PROPOSED OPERATIONS

.....Santa Paula,....., California

.....Sept. 13, 1977.....

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

Your.....proposal to.....rework  
gas storage.....well "SFZU" SS-12  
(Name and number)

....., A.P.I. No. 037-0764, Section 29, T. 3N, R. 16W

S.B. B. & M., Aliso Canyon field, Los Angeles County,

dated 9-3-77, received 9-12-77, has been examined in conjunction  
with records filed in this office.

### THE PROPOSAL IS APPROVED PROVIDED THAT:

1. The drilling fluid used shall be of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts; and a reserve supply of this material shall be kept on hand to meet any emergency.
2. Blowout prevention equipment, at least of the Division of Oil and Gas Class III, 3M rating, shall be installed and maintained in operating condition at all times.
3. THIS DIVISION SHALL BE NOTIFIED TO WITNESS A PRESSURE TEST OF THE BLOWOUT PREVENTION EQUIPMENT BEFORE COMMENCING DOWNHOLE OPERATIONS.

Blanket Bond  
MD:b

NOTE: A COPY OF THIS APPROVAL SHALL BE POSTED AT THE WELL SITE PRIOR TO COMMENCING OPERATIONS.

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

.....John L. Hardoin.....

DIVISION OF OIL AND GAS  
RECEIVED  
SEP 12 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 begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered canceled.

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. STANDARD SESNON #12, API No. 037-00764, Sec. 29, T. 3N, R. 16W, S.B. B. & M., Aliso Canyon Field, Los Angeles County.

The present condition of the well is as follows:

- Total depth. 9112' - cement plug 9107'
- Complete casing record, including plugs and perforations:  
13 3/8" cemented 790'  
9 5/8" " 3770' - milled section  
7" and 6 5/8" cemented 9110', squeezed 8817'  
WSO 8816', squeezed 8880', segregation 8958'  
Perforated 9107' - 9055', 9045' - 8963', 8935' - 8880'  
8870' - 8825'.  
202' 5" landed 8690' - top 8488' lead seals

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

The proposed work is as follows:

- Move in and rig up. Kill well. Install BOPE and pressure test.
- Clean out to 9107'. Pressure test 6 5/8" and 7" casings.
- Perform any remedial work indicated by pressure testing.
- Run tubing with down hole safety system.
- Return well to gas storage operation.

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

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

Southern California Gas Company  
(Name of Operator)  
By P.S. Magruder, Jr. (Name) 9-3-77 (Date)  
Type of Organization Corporation  
(Corporation, Partnership, Individual, etc.)

SEP 12 1977

STANDARD SESNON #12 - ALISO CANYON

SANTA PAULA, CALIFORNIA

Program to pressure test casing and install new down hole safety system.

TUBING WITHDRAWAL ONLY

Take all measurements from original derrick floor 9' above ground.

PRESENT CONDITIONS:

13 3/8" cemented 790' 54-5# J-55  
 9 5/8" cemented 3770' milled section  
 7" and 6 5/8" cemented 9110' squeezed 8817'  
 WSO 8816', squeezed 8880', segregation  
 8958'  
 3502' 7" - 6 5/8" 3502' - 9110'  
 Perforated 9107' - 9055'  
                   9045' - 8963'  
                   8990' - 8935'  
                   8870' - 8825'  
 202' 5" landed 8690', top 8488'  
 15# Hydril flush joint  
 Lead seals top and bottom (covers tight 6 5/8" casing)

CASING DETAILS:

7"	0 - 376'	23# N-80
	376' - 1809'	23# J-55
	1809' - 2048'	23# N-80
	2048' - 3502'	23# J-55
6 5/8"	3502' - 3852'	28# J-55
	3852' - 7120'	24# N-80
	7120' - 8560'	24# N-80
	8560' - 9110'	28# N-80

80% Safety Factor	
<u>BURST</u>	<u>COLLAPSE</u>
5070	3440
3490	2630
5070	3440
3490	2630
4840	4360
5950	4440
5950	4440
7050	5700

TUBING DETAIL:

Baker Model "D" packer 8950' (6 5/8")  
 Baker Model "D" packer 8756' (6 5/8")  
 2 3/8" and 2 7/8" tubing landed 8952'  
 Baker "R" nipple (2 3/8") 8947'  
 Baker sliding sleeve (2 3/8") 8840' open  
 Baker "F" nipple (2 3/8") 8714'  
 Baker "F" nipple (2 3/8") 8683'  
 Baker sliding sleeve (2 3/8") 8651' open  
 Camco gas lift mandrel with dummy 8440'

PROGRAM:

1. Move in and rig up.
2. Open sliding sleeve at 8651'. Kill well with 72#/cu. ft. brine polymer drilling fluid. Check bottom hole pressure before moving in rig. Volume of well = 335 barrels.
3. Install back pressure valve in doughnut. Remove Xmas tree and install class III 5000 psi BOZE. Pressure test complete shut-off rams and pipe rams to 4000 psi with water and nitrogen. Also pressure test Hydril bag to 3000 psi with water and nitrogen.
4. Pull tubing. Run special clearance tubing (packer bore 3.25") and clean out to 9107' using saw tooth collar.
5. Run 6 1/8" bit and casing scraper. Clean out to 3502'.
6. Plug Model "D" packer 8950' and pressure test plug in packer with rig pump. Circulate polymer drilling fluid out of well with fresh water treated with surface tension agent. Pressure test casing, using cement retainer and cement pump truck equipped with calibrated pressure chart and pressure gauge, as follows:

3100'	to	8950'	with	2800	psi	for	60	minutes
Surface	"	3100'	"	3000	psi	"	60	"
	"	2180'	"	3500	psi	"	60	"
	"	800'	"	4000	psi	"	60	"

Change to polymer drilling fluid.
7. Perform any remedial work indicated by pressure testing. Pull plug from Model "D" packer.
8. Run 2 3/8" and 2 7/8" 8rd EUE J-55 tubing, change collars, clean pins, apply Baker seal and hydrotest to 5000 psi holding each test for one minute. Tubing to include:

Baker 2 3/8" production tube
Baker 10 seals
Baker 2 3/8" sliding sleeve (open)
Baker 4 seals
Baker Latch-in-locator
Otis 10' heavy wall tube
" 1.56" "NOGO" nipple with 2 3/8" threads
" 20' heavy wall tube
" tubing flow safety system
One joint 2 3/8" tubing
Otis empty gas lift mandrel
2 3/8" tubing to 8400', 2 7/8" tubing to surface with 800' of 2 7/8" 8rd EUE N-80 on top
9. Land tubing on packer with up to 10,000 pounds on packer - pull up to 25,000 pounds over weight of tubing to check latch.

PROGRAM: (Concluded)

10. Install back pressure valve in doughnut. Remove BOPE and reinstall Xmas tree. Pressure test Xmas tree to 5000 psi. Retest well head seals to 3500 psi.
11. Circulate brine polymer drilling fluid out of well with waste salt water. Set tubing plug in "NOGO" nipple and pressure test seals and packer to 2000 psi. Remove tubing plug and release rig.

G. C. ABRAHAMSON  
July 13, 1977

cc: Rig Supervisor  
Contract Pusher (2)  
Relief Rig Supervisor  
D.O.G. (S.P.) ✓  
B. Jones  
D. Smiley  
J. Melton  
D. Justice }  
M. Grijalva }

Well File  
Spare Copy

GCA/jp

JUN 3 1975

## DIVISION OF OIL AND GAS

## History of Oil or Gas Well

SANTA PAULA, CALIFORNIA

OPERATOR PACIFIC LIGHTING SERVICE, INC. FIELD ALISO CANYONWell No. SS-#12, Sec. 29, T. 3N, R. 16W, S.B. B. & MDate May 22, 1975, 19Signed P. S. Magruder, Jr.P. O. Box 54790, Terminal Annex  
Los Angeles, California 90051Title Agent

(Address)

(Telephone Number)

(President, Secretary or Agent)

(213) 689-3561

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

- 4-15-75 Started moving in California Production Service rig, pump and shaker tank.
- 4-16-75 Finished moving in and rigging up. Using Archer-Reed Wire Service, removed Baker back-flow valve with "S" lock from sliding sleeve at 8858'. Displaced 76#/cu.ft. fluid in hole with 70#/cu.ft. calcium chloride workover fluid. Set Otis type "D" tubing plug with back check at 310' and circulating plug at 265'. Removed Christmas tree and installed B.O.P.E. Tested pipe rams and Hydril under 2500 psi. Each test for 20 minutes - O.K. Not able to test blind rams. Tests made with clear water. Closed well in and shut job down.
- 4-17-75 Using Archer-Reed Service, set type "A" circulating plug on top of plug at 265'. Tested blind rams with clear water under 2500 psi for 20 minutes - O.K. Tested blind rams, pipe rams and Hydril under 2500 psi with nitrogen. Each test for 20 minutes - O.K. Division of Oil & Gas declined to witness. Released Baker Model "R" packer at 8548' and pulled tubing out of hole. Laid down gas valves, packer and Guiberson cups. Made up 5 5/8" bit and 6 5/8" casing scraper. Ran same in hole on 2 7/8" tubing. Found tight spot at 8587'. Unable to work through. Pulled up. Closed well in and shut job down.
- 4-18-75 Pulled out of hole, laid down bit and scraper. Put on 2 7/8" sawtooth collar and ran in hole to 9100' (bottom 9107'). Circulated hole clean and free of gas. Pulled out of hole. Made up four 3 5/8" drill collars, bumper subs, jars and 5 1/2" casing swage. Ran in hole on 2 7/8" tubing. Closed well in and shut job down.
- 4-19-75 Swaged out tight spots at 8572' and 8575'. Pulled out of hole and changed jars. Ran back in and swaged out tight spot at 8588'. Tagged bottom of liner at 9100'. Pulled out of hole and laid down 5 1/2" swage. Tight spot at 8588'. Made up 5 5/8" swage and tools. Ran same in hole on 2 7/8" tubing. Closed well in and shut job down.

4-20-75

Rig idle.

4-21-75

Finished running in to tight spot. Swaged through 8572'. Not able to pass through 8575'. Pulled out of hole and laid down 5 5/8" swage. Made up 5 9/16" swage and 3 1/2" jars. Ran same in hole on 2 7/8" tubing. Not able to pass through 8575'. Pulled up above tight spot. Closed well in and shut job down.

4-22-75

Pulled out of hole. Left swage in hole. Ran back in, screwed on to same and pulled out of hole. Stood back drill collars, laid down tools. Ran 20 doubles in hole. Closed well in and shut job down.

4-23-75

Pulled 20 doubles out of hole. Rigged up Dresser-Atlas and ran Neutron Lifetime Log. Recorded from 8994' to 7300'. Attempted to run Cement Bond Log. Tool failure prevented same. Ran in with Neutron Lifetime Log to record from 7300' up. Developed leak in cable and shut job down. Ran 20 doubles in hole. Closed well in and shut job down.

4-24-75

Pulled 20 doubles out of hole. Ran Neutron Lifetime Log and recorded up to 4250'. Ran Cement Bond Log and recorded from 9100' to 3750'. Released logging unit. Started in hole with 2 7/8" tubing open end. Closed well in and shut job down.

4-25-75

Finished running in hole with open end tubing. Using Byron-Jackson pump truck, spotted 60 sacks of sand on bottom. Pulled up 12 stands and waited four hours. Tagged top of sand at 8919'. Unable to circulate. Pulled up 6 stands and broke circulation. Pulled tubing out of hole and made feeler run with Hercules Wire Line equipment. Using reference collars, found top of fill at 8826'. Ran 20 doubles in hole, closed well in and shut job down.

4-26-75

Pulled 20 doubles out of hole. Ran in hole with Hercules Wire Line, found top of sand fill at 8751'. Made two squeeze runs with 1.8 cu.ft. cement each run. Ran in hole with 6 5/8" Baker full bore retainer on 2 7/8" tubing and set same at 8441'. Pressured annulus to 2200 psi - O.K. Attempted to obtain breakdown below retainer. With 1000 psi backup on annulus, applied 3650 psi down tubing. Pressure dropped 150 psi in 8 minutes 2.13 cu.ft. pumped away. Released pressures and full bore. Tested 6 5/8" casing as follows:

0' to 7000'	2400 psi	20 minutes	O.K.
0' to 6000'	2600 psi	20 minutes	O.K.
0' to 4000'	2800 psi	20 minutes	O.K.

Released full bore. Closed well in and shut job down.

4-27-75

Rig idle.

4-28-75

Pulled out of hole with 6 5/8" full bore. Made up 7" full bore and ran in hole on 2 7/8" tubing. Set at 350' and pressure tested casing under 3400 psi for 20 minutes - O.K. Reset at 2000' and tested 7" under 3000 psi for 20 minutes - O.K.

Pulled out of hole and laid down full bore. Made up 5 5/8" O.D. taper mill, bumper sub, jars and drill collars. Ran same in hole on 2 7/8" tubing. Tagged tight spot at 8562'. Rigged up Midway power swivel. Circulated and conditioned mud. Closed well in and shut job down.

-29-75 Milled through tight spots at 8562'-8572'-8575' and 8588'. Tagged top of cement at 8738'. Using rig pump, applied 1500 psi to casing for 20 minute test - O.K. Circulated hole clean, pulled out of hole with mill and tools. Using McCullough Services, ran casing inspection and calibration log. Recorded from 8700'-3450'(wire line measurement). Ran 20 doubles in hole, closed well in and shut job down.

-30-75 Pulled tubing out of hole. Removed B.O.P.E. and tubing head. Using 30 barrels of waste rotary mud, filled annulus between 7" and 9 5/8" and between 9 5/8" and 13 3/8" casing. Removed packing around 7". Welded a section of 7", 23#, N-80 on 7" string. Heated weld and wrapped with asbestos blankets to cool. Shut job down.

-1-75 X-rayed weld on 7" casing - O.K. Using casing jacks, unlanded 7" with 105,000# pull. Removed slips and spool. Installed new spool and relanded 7" in slips with 100,000# weight. Repaired crack where base plate joins 13 3/8". Cut off 7" casing 12 5/8" above top flange on spool and installed new Shafco 5000 psi tubing head. Tested two places under 3500 psi. Each test for 20 minutes - O.K. Shut job down.

-2-75 Reinstalled B.O.P.E. Using clear water, tested pipe rams and Hydril under 2500 psi. Tested casing and blind rams under 2000 psi. Using nitrogen, tested pipe rams and Hydril under 2500 psi. Blind rams and casing under 2200 psi. Each test for 20 minutes - O.K. Division of Oil & Gas declined to witness tests. Ran in hole with 5 5/8" bit and 6 5/8" casing scraper. Tagged top of cement at 8711'. Rigged up power swivel, drilled out plug and cleaned out to 8801'. Circulated hole clean, closed well in and shut job down.

-3-75 Cleaned out from 8801' to 9100'. Circulated hole clean (4 hours). Pulled out of hole and laid down bit and scraper. Ran in hole with 20 doubles, closed well in and shut job down.

-4-75 Rig idle.

-5-75 Pulled tubing out of hole. Using McCullough Services, made run with 5 1/2" O.D. feeler on wire line. Unable to get past 8588'. Made up 5 5/8" tapered mill with bumper sub, jars and drill collars. Ran in hole on 2 7/8" tubing. Using power swivel, milled from 8588'-8589'. Circulated hole clean. Closed well in and shut job down.

-6-75 Milled through tight spot. No excess torque or indication of restrictions. Pulled out of hole and made feeler run with wire line and 5 1/2" O.D. feeler. Hung up at 8590'. Pulled out of hole. Ran in 20 doubles. Closed well in and shut job down.

- 5-7-75 Pulled 20 doubles out of hole. Made up 5 5/8" tapered mill, 6 5/8" casing scraper, bumper sub, jars and drill collars. Ran in hole on 2 7/8" tubing. Milled out tight spots from 8572'-8590'. Circulated hole clean, closed well in and shut job down.
- 5-8-75 Continued working with mill and scraper through 8572'-8590'. Worked same until no torque or drag visible. Ran on to bottom. Circulated two hours. Pulled up above tight spots, closed well in and shut job down.
- 5-9-75 Made run with mill and scraper, pulled out of hole. Using McCullough Wire Line Service, ran in to 8990' with 5 1/2" feeler - O.K. Pulled out with feeler and made two runs to set Baker Model "D" packers - #1 at 8950' and #2 at 8756'. Made up 510.87' of 5", 15# Hydril flush joint casing with Burns 6 5/8" 28# x 5"-15# hook wall casing packer on bottom with Neopreme lead seal and 6 5/8" 24# x 5" 15# adapter, with Neopreme lead seal and hold down slips on top. Ran in hole with drill collars on 2 7/8" tubing. Found tight spot at 6899'. Pulled up 30'. Closed well in and shut job down.
- 5-10-75 Continued running in hole with 5" casing. Set casing packers at 8700'. Tested to 1000 psi - bled down to 200 psi. No returns through tubing. Set top adapter and tested. Fluid returns through tubing. Pulled out of hole with setting tool. Found bottom cup destroyed and nut on setting tool Kelly packed with lead, Neopreme and rubber. Made up Midway spear with bumper sub, jars and drill collars. Ran in hole on 2 7/8" tubing. Closed well in and shut job down.
- 5-11-75 Rig idle.
- 5-12-75 Finished running in hole with fishing tools. Top of fish at 8200'. Set spear and jarred fish loose. Hung up at 7000'. Jarred free and pulled out of hole. Slips from adapter left in hole. Laid down 5" casing and tools. Ran 20 doubles 2 7/8" tubing in hole. Closed well in and shut job down.
- 5-13-75 Pulled 20 doubles out of hole. Made two runs with magnet on sand line. No recovery of junk. Picked up 8 joints 2 3/8" tubing and ran in on 2 7/8" tubing to 8971'. Pulled out of hole. Made up 5 5/8" tapered mill, 6 5/8" casing scraper, bumper sub, jars and drill collars. Started in hole with same on 2 7/8" tubing. Closed well in and shut job down.
- 5-14-75 Made feeler run with mill and scraper. Pulled out of hole and laid down tools. Made up and ran in hole on 2 7/8" tubing, 194' of 5" 15# Hydril flush joint casing. Burns 6 5/8" 28# x 5" - 18# inner barrel, 15# Hydril box, lead seal hook wall hanger on bottom of string. Burns 6 5/8" 24# x 5" 15# with lead seal adapter on top of string. Set hook wall at 8690' and tested under 1000 psi for 15 minutes - O.K. Set adapter at 8488'. Tested under 1000 psi for 15 minutes - O.K. Released setting tool and started out of hole. Closed well in and shut job down.

- 5-15-75 Finished pulling out of hole. Laid down drill collars and tools. Made up production string with jewelry and ran same in hole (tubing detail attached). Landed with 14,000# weight on packer. All tubing hydrotested to 4000 psi. Installed backflow valve in doughnut. Closed well in and shut job down.
- 5-16-75 Removed B.O.P.E. and installed Christmas tree. Tested same two places under 4500 psi for 20 minutes each test - O.K. Displaced workover fluid in hole with 310 barrels of lease salt water. Rigged down to move to Mission Adrian #5. Closed well in. Released rig at 6:00 P.M.

## STANDARD SESNON #12

TUBING DETAILS

May 16, 1975

<u>JOINES</u>	<u>ITEM</u>	<u>LENGTH</u>	<u>DEPTH</u>
	Below K.B.	7.00	7.00
	Doughnut	.80	7.80
	Pup 2 7/8" 8rd J-55	3.10	10.90
	Pup 2 7/8" 8rd J-55	6.00	16.90
	Pup 2 7/8" 8rd J-55	8.03	24.93
270	8rd J-55 Tubing	8405.49	8430.42
	Pup 2 7/8" 8rd J-55	4.00	8434.42
	CAMCO KMB-G Mandrel with dummy in place	6.21	8440.63
	Pup 2 7/8" 8rd J-55	1.14	8441.77
	2 7/8" X 2 3/8" 8rd Swage	1.10	8442.87
7	2 3/8" 8rd J-55 Tubing	205.32	8648.19
	Baker 2 3/8" Sliding Sleeve - open	2.63	8650.82
1	2 3/8" 8rd J-55 Tubing	31.35	8682.17
	Baker 2 3/8" 8rd "F" Nipple with 1.87 Bore	.92	8683.09
1	2 3/8" 8rd J-55 Tubing	29.80	8712.89
	Baker 2 3/8" 8rd "F" Nipple with 1.87 Bore	.92	8713.81
1	2 3/8" 8rd J-55 Tubing	29.45	8743.26
	Baker 2 3/8" X 2 7/8" 8rd Swage	.40	8743.66
	Baker Stop Sub for Model "D" Packer	1.05	8744.71
	Baker Seals "D" Packer - 4 Seal Units	4.25	8748.96
3	2 3/8" 8rd J-55 Tubing	88.09	8837.05
	Baker 2 3/8" Sliding Sleeve - OPEN	2.63	8839.68
3	2 3/8" 8rd J-55 Tubing	91.51	8931.19
	Pup 2 3/8" 8rd J-55	6.02	8937.21
	Baker Seals "D" Packer - 8 Seal Units	8.80	8946.01
	Baker "R" NO-GO Nipple with 1.81 Bore	.77	8946.78
	Baker Production Tube	5.05	8952.16

STANDARD SESNON #12

Casing Patch Detail  
5" 15# Hydril Flush Casing

May 17, 1975

<u>ITEM</u>	<u>LENGTH</u>	<u>DEPTH</u>
6 5/8" X 24# 5" Hydril Flush Burns Casing	(Top) 8488.00	8488.00
Adapter with Lead Seals	3.05	8491.05
5 Joints 5" 15# Hydril Flush Casing-		
	37.18	
	34.65	
	40.21	
	40.50	
	41.29	
	193.83	8684.88
6 5/8" X 28# with 18# with inner barrel 5" 15# Hydril Flush Threads, Burns Hook Wall with Lead Seals	5.20	8690.08

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

REPORT ON PROPOSED OPERATIONS No. P 275-142

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

Santa Paula, Calif.  
April 23, 1975

DEAR SIR:

(037-00764)

Your proposal to alter casing Well No. "SFZU" SS-12  
Section 29, T. 3N, R. 16W, S.B.B. & M., Aliso Canyon Field, Los Angeles County,  
dated 4/15/75, received 4/22/75, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Blowout prevention equipment, at least of the Division of Oil and Gas Class III rating, shall be installed and maintained in operating condition at all times.
2. Blowout-prevention practice drills shall be held for each crew prior to that crew's initial tour.
3. THIS DIVISION SHALL BE NOTIFIED TO WITNESS:

WAIVED

- a. A pressure test of the blowout prevention equipment.
- b. The retest of the 6 5/8" water shut-off, if applicable.

NOTE: A COPY OF THIS APPROVAL SHALL BE POSTED AT THE WELL SITE PRIOR TO COMMENCING OPERATIONS.

Blanket Bond  
ALL:b  
cc: Operator

Thomas E. Gay, Jr., Acting Chief  
JOHN F. MATTHEWS, JR., State Oil and Gas Supervisor

By *W.C. Pitzer*, Deputy

DIVISION OF OIL AND GAS

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

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

Los Angeles Calif. April 15 1975

DIVISION OF OIL AND GAS

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of ~~deepening, redrilling, plugging or~~ altering casing at Well No. STANDARD SESNON #12  
(Cross out unnecessary words)

Sec. 29, T. 3N, R. 16W, S.B.B. & M.  
Aliso Canyon Field, Los Angeles County.

The present condition of the well is as follows:

DIVISION OF OIL AND GAS  
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APR 22 1975

SANTA PAULA, CALIFORNIA

1. Total depth. 9112'

2. Complete casing record, including plugs:

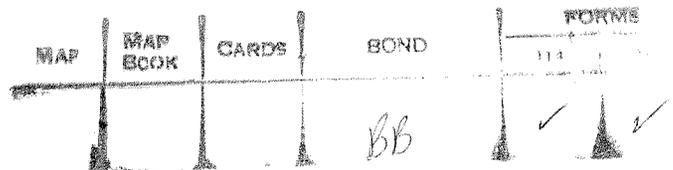
- 20" cemented 42'
- 13-3/8" cemented 790'
- 9-5/8" cemented 4830' (window 3770'-3784')
- 7" and 6-5/8" cemented 9110', cement plug 9107'
- WSO by Co. 8958', cp'd 8880', cp'd 8817' and 8816'
- WSO by D.O.G. 8816'
- Four 1/2" bullet holes per foot 9107'-9055', 9045'-8963', 8935'-8890', 8870'-8825'

3502' of 7"

3. Last produced. (Date) 65 (Oil, B/D) 10 (Water, B/D) 2000 (Gas Mcf/D)

The proposed work is as follows:

1. Kill well, install B.O.P.E. and pull tubing.
2. Clean out to 9107' and run Neutron lifetime and cement bond logs.
3. Pressure test 6-5/8" and 7" casing.
4. Retest WSO over Sesnon Zone if indicated necessary by cement bond log.
5. Install new well head equipment.
6. Run packers and tubing. Recomplete well.



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

PACIFIC LIGHTING SERVICE CO.

(Address)

(Name of Operator)

(213) 689-3561

(Telephone No.)

By P. S. Magruder, Jr.  
P. S. Magruder, Jr.

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 23, 1968

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

DEAR SIR:

Your requested letter dated August 26, 1968, relative to change in designation of well(s) in Sec. 28, 29, 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:

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 in Designation

Sec. 28:

<u>Old Designation</u>		<u>New Designation</u>
"Standard-Sesnon 1"	1	"SFZU" SS-1 (037-00754)
"	2	" SS-2 (037-00755)
"	3	" SS-3 (037-00756)
"	5	" SS-5 (037-00758)
"	6	" SS-6 (037-00759)
"	7	" SS-7 (037-00760)
"	8	" SS-8 (037-00761)
"	9	" SS-9 (037-00762)
"	11	" SS-11 (037-00763)
"	13	" SS-13 (037-00765)
"	14	" SS-14 (037-00766)
"	16	" SS-16 (037-00768)
"	17	" SS-17 (037-00769)
"	24	" SS-24 (037-00770)
"	25	" SS-25 (037-00776)
"	29	" SS-29 (037-00041)
"	30	" SS-30 (037-00780)
"	31	" SS-31 (037-00781)
"	44	" SS-44 (037-00788)

Sec. 29:

<u>Old Designation</u>		<u>New Designation</u>
"Standard-Sesnon 1"	4	"SFZU" SS-4 (037-00757)
"	10	" SS-10 (037-00040)
"	12	" SS-12 (037-00764)

MAR 24 1955

LOS ANGELES, CALIFORNIA

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

WELL SUMMARY REPORT

Operator TIDE WATER ASSOCIATED OIL COMPANY Field ALISO CANYON  
Well No. 'Standard-Sesnon 1#12 (Redrill) Sec. 29, T. 3 N, R. 16 W, S.B. B. & M.  
2841.46' South & 7884.18' West Elevation above sea level 2276.15 feet.  
Location from Station #84 All depth measurements taken from top of derrick floor,  
which is 9.00 feet above ground.

In compliance with the provisions of Chapter 93, Statutes of 1939, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date March 21, 1955 Signed \_\_\_\_\_  
F. G. Young W. D. Gould Title T. E. Johnson  
(Engineer or Geologist) (Superintendent) T. E. Weaver (President, Secretary or Agent)

Commenced ~~drilling~~ Redrilling July 9, 1954 Completed ~~drilling~~ Redrilling Jan. 1, 1955  
1st R.D. 8646'; 2nd R.D. 8782'; 3rd R.D. 8621' with R.D. 9112'; Pf. 9107' Drilling tools Cable  
(Orig.) 9004' (Orig.) 3775' Rotary  
Total depth \_\_\_\_\_ Plugged depth \_\_\_\_\_ GEOLOGICAL MARKERS DEPTH  
Junk 1046' - 9-5/8" C 4830' Top 3784'  
5055' - 7" C 8835' Top 3780' (Section 7992'-7973'  
196' - 5" L 9000' Inc. 164' Pf. Top 8804'  
316' Fish: 2-7/8" D.P.; 2 drill collars, monel, bit & reamer, top at 8305' (3rd R.D.)  
? Fish: Baker scraper, pin sub & drill collar at 8114' (2nd R.D.)

Recompleted \_\_\_\_\_  
Commenced producing January 8, 1955 Flowing/gas lift/pumping \_\_\_\_\_  
(date) (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
<u>1/16/55</u> Initial production	<u>179</u>	<u>16.7</u>	<u>25.0%</u>	<u>57</u>	<u>325#</u>	<u>1075#</u>
Production after 30 days	<u>200</u>	<u>16.7</u>	<u>20.0%</u>	<u>122</u>	<u>300#</u>	<u>950#</u>

CASING RECORD (Present Hole)

Size of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second-Hand	Seamless or Lapweld	Grade of Casing	Size of Hole Drilled	Number of Sacks of Cement	Depth of Cementing if through perforations
<u>20"</u>	<u>42'</u>	<u>0'</u>					<u>32"</u>		
<u>13-3/8"</u>	<u>790'</u>	<u>0'</u>	<u>54.5#</u>	<u>New</u>	<u>Seamless</u>	<u>J-55, T&amp;C</u>	<u>17"</u>	<u>500</u>	
<u>7-5/8"</u>	<u>4830'</u>	<u>0'</u>	<u>40#</u>	<u>New</u>	<u>Seamless</u>	<u>J-55</u>	<u>12-1/4"</u>	<u>(500) Window</u>	<u>3770-3784'</u>
<u>7" &amp; 6-5/8"</u> <u>(bot)</u>	<u>9110'</u>	<u>0'</u>	<u>7" - 23#</u> <u>6-5/8" - 24, 28#</u>	<u>New &amp;</u> <u>Used (7")</u>	<u>Sals</u>	<u>Speedtite &amp;</u> <u>T &amp; C, J-55,</u> <u>N-80</u>	<u>8-5/8"</u>	<u>201 CF IMA @ Shoe</u> <u>172 CF IMA @ 8817'</u> <u>187 CF IMA @ 8880'</u> <u>100 Sx. @ 8816'</u>	

PERFORATIONS

Size of Casing	From	To	Size of Perforations	Number of Rows	Distance Between Centers	Method of Perforations
<u>6-5/8" &amp; 7"</u>	<u>8825 ft.</u>	<u>8870 ft.</u>	<u>4 - 1/2" holes/ft.</u>			<u>Gun Pf. by McCullough</u>
"	<u>8890 ft.</u>	<u>8935 ft.</u>	" "			" "
"	<u>8963 ft.</u>	<u>9045 ft.</u>	" "			" "
"	<u>9055 ft.</u>	<u>9107 ft.</u>	" "			" "
	ft.	ft.				

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS

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History of Oil or Gas Well

MAR 24 1955

OPERATOR **TIDE WATER ASSOCIATED OIL COMPANY** FIELD **ALISO CANYON** <sup>LOS ANGELES, CALIFORNIA</sup>

Well No. **Standard Sesson #12** Sec. **29**, T. **3 N**, R. **16 W**, S. **S.B.** B. & M.

Date \_\_\_\_\_, 19\_\_\_\_ Signed **T. E. Weaver**

**March 21, 1955** (Address) **Oxford 91051** (Telephone Number) Title **T. E. Weaver, Agent** (Position, 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 thereon. 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

1954

7/6  
7/7  
7/8  
7/9

Moving in.  
Moving in.  
Rigging up rotary.  
Contractor on daily rate at 8:00 PM 7/9/54. Drilled rat hole and removed Christmas tree. Killing well with salt water.  
Killed well and circulated with salt water. Pulled packer loose. Installed B.C.P. and flow line.  
Ran 2-1/2" and 2" tubing to bottom and circulated with salt water. Pulled and measured tubing. Ran 2-1/2" tubing with 310' of 2" tubing on bottom, equipped with one inverted Guberson swab rubber at 8967' and hung at 8997'. Mixed 100 sacks Colton Hi-temperature cement and washed interval 8967' to 8937' three times while displacing with salt water and once while displacing cement. Pulled tubing to 7650'. Closed rams and squeezed with 14 cu. ft. of salt water. Estimated 11 sacks away. Final pressure 3000#. Time 7:50 PM. B.J. Service. After 6 hours found top of cement at 8340'.  
Ran Sperry-Sum directional survey to top of plug at 8340'. Made up 2-7/8" drill pipe.  
Cleaned out and scraped 7" casing to 8340'. Changed water to mud. Set Baker bridge plug at 8150'.  
Ran in with Kinsback whipstock and lost on bridge plug at 8150'. Ran Baker bridge plug to 8120'. Oriented whipstock directly east and set with top at 8064'. Milling window with Kinsback Type "F" mill at 8065.5'. Mud weight 72#, 55 viscosity, 6.5 c.c. water loss.  
Milled 2' in 7" casing from 8065.5' to 8067.5'. Mud weight 72#, 55 viscosity, 6.5 c.c. water loss.  
Milled 7" casing with 6" Kinsback Type "A" mill from 8067.5' to 8068'. Mud weight 73#, 55 viscosity, 7.0 c.c. water loss.  
Milled 7" casing with 6" Kinsback Type "A" mill from 8068' to 8069'. Mud weight 74#, 57 viscosity, 7.0 c.c. water loss.  
Changed from 6" Kinsback type "A" mill to 5-5/8" Type "A" mill. Mud weight 73#, 70 viscosity, 7.0 c.c. water loss. (Milled from 8069' to 8070').  
Changed from 5-5/8" to 5" Kinsback Type "A" mill and milled from 8070' to 8071'. Mud weight 74#, 70 viscosity, 5.2 c.c. water loss.  
Milled 1' section with Type "A" Kinsback mill from 8071' to 8072'. Mud weight 73#, 63 viscosity, 5.5 c.c. water loss.

7/10  
7/11  
7/12  
7/13  
7/14  
7/15  
7/16  
7/17  
7/18  
7/19  
7/20

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LOS ANGELES, CALIFORNIA

OPERATOR: TIDE WATER ASSOCIATED OIL COMPANY  
WELL NO.: Standard Sesnon #12, Aliso Canyon Field.

1954

- 7/21 Milled 1' with Type "A" Kinsback mill from 8072' to 8073'. Ran 6" Hughes bit which apparently was dulled on iron. Mud weight 73#, 62 viscosity, 4.7 c.c. water loss.
- 7/22 Drilled from 8073' to 8075' with 6" Hughes bit and reamer. Changed to 6" Kinsback Type "H" mill. Milling on pieces of mill. Mud weight 73#, 64 viscosity, 5.0 c.c. water loss.
- 7/23 Milled 1' with Type "H" mill from 8075' to 8076'. Mud weight 71#, 63 viscosity, 5.0 c.c. water loss.
- 7/24 Attempted to mill window at 8076' with Type "A" mill and lost 1' of hole. Mud weight 75#, 60 viscosity, 5.0 c.c. water loss.
- 7/25 Cut section with Baash-Ross cutters from 7973' to 7974'. Mud weight 73#, 62 viscosity, 5.0 c.c. water loss.
- 7/26 Milled section from 7974' to 7977' with Baash-Ross cutters. Mud weight 72#, 60 viscosity.
- 7/27 Milled from 7977' to 7983' with Baash-Ross cutters. Mud weight 73#, 64 viscosity.
- 7/28 Milled from 7983' to 7985'. Mud weight 71#, 62 viscosity, 5.8 c.c. water loss.
- 7/29 Milled from 7985' to 7990'. Mud weight 70#, 67 viscosity.
- 7/30 Milled from 7990' to 7992'. Scraped section to 11" from 7974' to 7992'. Cleaned out 7" stub to 8022'. Mud weight 70#, 62 viscosity.
- 7/31 Ran in with Baash-Ross permanent whipstock on 2-7/8" drill pipe, oriented due East. Set on stub of 7" casing at 7992' with tailpipe to 8001'. Top of whipstock at 7982'. Cemented in place with 50 sacks Victor Hi-temperature cement. Final pressure 1600#. Time 8:07 PM. Halliburton Cementing Co. Ran Hughes bit and found top of cement at 7660'. Cleaned out to 7770'.
- 8/1 Cleaned out cement from 7770' to top of whipstock at 7982'. Drilled off whipstock from 7982' to 7988' with 6" bit.
- 8/2 Drilled off whipstock from 7988' to 8032'. Unable to get back in hole below whipstock.
- 8/3 Recemented whipstock with 2-7/8" drill pipe hung at 7991', using 50 sacks hi-temperature cement plug 10% sand. Final pressure 1500#. Time 5:30 AM. Halliburton Cementing Service. Found top of cement at 7730' and cleaned out to 7980'. Drilled off whipstock at 7984' with 6" bit.
- 8/4 Drilled off whipstock from 7984' to 8029'. Mud weight 70#, 62 viscosity.
- 8/5 Cleaned out to 8032' and redrilled 6" hole from 8032' to 8156'. Mud weight 59#, 95 viscosity.
- 8/6 Redrilled 6" hole from 8156' to 8276'. Mud weight 59#, 100 viscosity.
- 8/7 Redrilled 6" hole from 8276' to 8313'. Mud weight 59#, 115 viscosity.
- 8/8 Redrilled 6" hole from 8313' to 8334'. Mud weight 59#, 110 viscosity.
- 8/9 Redrilled 6" hole from 8334' to 8363'. Mud weight 59#, 110 viscosity.
- 8/10 Redrilled 6" hole from 8363' to 8402'. Mud weight 59#, 110 viscosity.
- 8/11 Redrilled 6" hole from 8402' to 8462'. Mud weight 59#, 120 viscosity.
- 8/12 Redrilled 6" hole from 8462' to 8557'. Mud weight 59#, 85 viscosity.
- 8/13 Redrilled 6" hole from 8557' to 8577'. Mud weight 59#, 85 viscosity.



OPERATOR: TIDE WATER ASSOCIATED OIL COMPANY  
WELL NO.: Standard Sesnon #12, Aliso Canyon Field.

DIVISION OF OIL AND GAS  
REGULATORY

MAR 24 1955

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LOS ANGELES, CALIFORNIA

1954

- 9/4 Drilled 6" hole from 8461' to 8494'. Left two stands and single of drill pipe in hole. Top of fish 8230'. Ran Baash-Ross socket and went by fish. Ran socket on knuckle joint. Recovered fish.
- 9/5 Drilled 6" hole from 8494' to 8548'. Mud weight 76#, 53 viscosity, 8.0 c.c. water loss.
- 9/6 Drilled 6" hole from 8548' to 8568'. Mud weight 77#, 59 viscosity, 8.5 c.c. water loss. Oriented whipstock at 8568'. Could not rotate on whipstock. Pulled whipstock and cleaned out to bottom.
- 9/7 Oriented whipstock at 8568' North 20° East. Drilled 4-5/8" rat hole off whipstock to 8578'. Opened rat hole to 6" to 8578'. Mud weight 77#, 59 viscosity, 8.5 c.c. water loss.
- 9/8 Drilled 6" hole from 8578' to 8605'. Mud weight 81#, 52 viscosity, 7.7 c.c. water loss.
- 9/9 Redrilled 6" hole from 8605' to 8666'. Mud weight 79#, 60 viscosity,
- 9/10 Redrilled 6" hole from 8666' to 8704'. Mud weight 75#, 40 viscosity, 7.5 c.c. water loss.
- 9/11 Redrilled 6" hole from 8704' to 8782'. Circulated out clay-water mud with Ken Oil. Twisted off at 11:00 PM. Top of fish 8209'.
- 9/12 Ran Baash-Ross socket and went by fish. Ran socket on knuckle joint. Located top of fish at 8209'. Could not get over same. Running wall hook to hook fish.
- 9/13 Pulled wall hook. Ran special circulating sub and socket. Found top of fish with tools but could not engage. Fishing.
- 9/14 Ran 8" Baker wall scraper. Could not find top of fish. Rotated into fish, knocking same in hole. Ran Baash-Ross socket on knuckle joint. Took hold of fish and pulled 100' up hole. While putting on Kelly to circulate, lost fish. Found top of fish 100' up hole. Pulled socket and knuckle joint.
- 9/15 Top of fish approximately 8119'. Ran Baash-Ross socket on straight hookup. Took hold of fish but could not jar loose. At 5:00 displaced 41 barrels oil, 6 barrels around fish, moving 2 barrels per hour. Jarring on fish.
- 9/16 Could not recover fish. Released socket. Top of fish 8119'+. Ran 8" Baker wall scraper and scraped hole from 8019' to 8051'. Jumped pin on scraper sub, leaving Baker scraper and double pin sub in hole. Top of fish at 8050'.
- 9/17 While attempting to recover Baker scraper and sub, pushed same to 8114'. Did not recover fish. With 2-7/8" drill pipe hanging at 8103', pumped in 62 sacks Colton hi-temperature cement plus 13 sacks sand. Cement in place at 6:42 PM. B.J. Service. Standing cemented.
- 9/18 Standing cemented.
- 9/19 Found top of cement at 7763'. Drilled out soft cement to 7967', hard cement from 7967' to 7986'. Drilled 6" hole from 7986' to 8024'. Mud weight 77#, 61 viscosity.
- 9/20 Drilled 6" hole from 8024' to 8039'. Drilled 28" off whipstock set at 8039', oriented North 45° East. Set second whipstock in rat hole, oriented North 45° East. Drilled 4-5/8" hole off second whipstock to 8051'. Mud weight 78#, 56 viscosity, 5.3 c.c. water loss.
- 9/21 Opened rat hole to 6" to 8051'. Drift shot at 8051' 2° 30'. Drilled 6" hole to 8067'. At depth of 8067', single shot 2° 45' due South. Drilled 6" hole to 8082'.
- 9/22 Oriented whipstock at 8082', North 72° East. Drilled 4-5/8" rat hole off whipstock to 8093'. Mud weight 77#, 50 viscosity, 5.4 c.c. water loss.

OPERATOR: TIDE WATER ASSOCIATED OIL COMPANY  
WELL NO.: Standard Sesnon #12, Aliso Canyon Field.

DIVISION OF OIL AND GAS

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LOS ANGELES, CALIFORNIA

1954

- 9/23 Opened rat hole to 6" to 8093'. Drilled 6" hole from 8093' to 8145'. Mud weight 76#, 45 viscosity, 6.7 c.c. water loss.
- 9/24 Drilled 6" hole from 8145' to 8214'. Mud weight 75#, 52 viscosity, 5.0 c.c. water loss.
- 9/25 Drilled 6" hole from 8214' to 8280'. Mud weight 77#, 53 viscosity, 5.0 c.c. water loss.
- 9/26 Drilled 6" hole from 8280' to 8309'. Mud weight 78#, 50 viscosity, 6.5 c.c. water loss.
- 9/27 Drilled 6" hole from 8309' to 8340'. Mud weight 78#, 44 viscosity, 6.8 c.c. water loss.
- 9/28 Drilled 6" hole from 8340' to 8382'. Mud weight 78#, 45 viscosity, 6.6 c.c. water loss.
- 9/29 Drilled 6" hole from 8382' to 8404'. Oriented whipstock at 8404' North 50 West. Mud weight 77#, 45 viscosity, 6.2 c.c. water loss.
- 9/30 Drilled 4-5/8" rat hole off whipstock from 8404' to 8414'. Opened hole to 6". Mud weight 75#, 42 viscosity, 6.2 c.c. water loss.
- 10/1 Drilled 6" hole from 8414' to 8444'. Mud weight 77#, 46 viscosity, 5.8 c.c. water loss. Reamed to 8414'.
- 10/2 Drilled 6" hole from 8444' to 8467'. Attempted to run whipstock at 8467' but whipstock stopped at 8360'. Mud weight 77#, 45 viscosity, 5.6 c.c. water loss.
- 10/3 Conditioned mud for whipstock. Mud weight 76#, 75 viscosity, 2.0 c.c. water loss.
- 10/4 Oriented whipstock at 8467' North 16° West. Drilled 4-5/8" rat hole off whipstock to 8479'. Opened hole to 6". Mud weight 75#, 75 viscosity, 2.2 c.c. water loss.
- 10/5 Drilled 6" hole from 8479' to 8509'.
- 10/6 Drilled 6" hole from 8509' to 8566'. Mud weight 77#, 75 viscosity, 2.4 c.c. water loss.
- 10/7 Drilled 6" hole from 8566' to 8589'. Mud weight 76#, 63 viscosity, 2.4 c.c. water loss.
- 10/8 Drilled 6" hole from 8589' to 8621'. While drilling at 8621', twisted off, leaving 2-2/3 stands of 2-7/8" drill pipe, 2 drill collars and Monel, bit, reamer in hole. Top of fish 8305'. Mud weight 76#, 63 viscosity, 2.5 c.c. water loss.
- 10/9 Fishing at 8305'. Mud weight 76#, 63 viscosity, 2.5 c.c. water loss.
- 10/10 Using Baker scraper, scraped 8" hole from 8287' to 8305'. Rotated 10' below top of fish, attempting to knock fish into hole.
- 10/11 Laid down and loaded out 2-7/8" drill pipe.
- 10/12 Made up 3-1/2" drill pipe.
- 10/13 With 3-1/2" drill pipe hanging at 8311', equalized 50 sacks Colton slow cement. Found top of cement at 8200'. With drill pipe at 8200', equalized 50 sacks Colton slow cement. Found top of cement at 8018'. With drill pipe at 8018', equalized 25 sacks Colton slow cement. Found top of cement at 7773'.
- 10/14 Ran Dialoy survey in 7" casing from 7750' to surface. From 7750' to 5180', reading was in excess of 1/4" wall thickness which is equivalent to 69% of new 26# casing value. 29# casing is 61.3% of new value. Ran magnatector and found free point at 3815'. Standing cemented.
- 10/15 Using mechanical cutter, cut 7" casing at 3780'.
- 10/16 Pulled and loaded out 3763.40' of 7" 23# casing. Ran 8-5/8" bit and scraper to 3780'. Mud weight 76#, 63 viscosity, 3.4 c.c. water loss.

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OPERATOR: TIDE WATER ASSOCIATED OIL COMPANY  
 WELL NO.: Standard Sesnon #12, Aliso Canyon Field.

LOS ANGELES, CALIFORNIA

1954

- 10/17 Ran 6" bit to 3630'. Ran tapered mill through stub of 7" at 3780'. Oriented 8" Kinzbach whipstock at 3780', due north. Cemented through 2-1/2" x 30' anchor below whipstock with 50 sacks Colton construction cement, equalizing at 3654'. Cleaned out cement to 3775'. Top of whipstock 3770', bottom of taper 3779', set in 7" casing stub. Mud weight 72#, 60 viscosity, 4.0 c.c. water loss.
- 10/18 Laid down 3-1/2" drill pipe. Making up 4-1/2" drill pipe. Standing cemented.
- 10/19 Made up 4-1/2" drill pipe. Tested casing with 1000# O.K. Using Kinzbach Type "F" mill, milled 9-5/8" casing from 3770' to 3771'. Mud weight 72#, 80 viscosity, 4.0 c.c. water loss.
- 10/20 Using Kinzbach Ty'e "A" mill, milled 9-5/8" casing from 3771' to 3771.5'. Ran Diamond mill and milled 9-5/8" casing from 3771.5' to 3772'. Mud weight 72#, 65 viscosity, 5.3 c.c. water loss.
- 10/21 Using Diamond mill, milled 9-5/8" casing from 3772' to 3784'. Pulled mill and recovered 5' steel sliver, 3' formation. Ran 8-5/8" bit and reamer but could not get through window. Ran Kinzbach Type "A" mill to 3775.5'. Mud weight 64#, 42 viscosity, 4.6 c.c. water loss.
- 10/22 Using Kinzbach Type "A" mill, milled through window to 3784'. Ran 8-5/8" bit and reamer and redrilled to 3817'. Mud weight 72#, 55 viscosity, 3.0 c.c. water loss.
- 10/23 Redrilled 8-5/8" hole from 3817' to 3882'. Mud weight 72#, 54 viscosity, 3.4 c.c. water loss.
- 10/24 Redrilled 8-5/8" hole from 3882' to 4026'. Mud weight 72#, 53 viscosity, 3.0 c.c. water loss.
- 10/25 Redrilled 8-5/8" hole from 4026' to 4300'. Mud weight 72#, 52 viscosity, 3.0 c.c. water loss.
- 10/26 Redrilled 8-5/8" hole from 4300' to 4481'. Mud weight 72#, 47 viscosity, 3.3 c.c. water loss.
- 10/27 Redrilled 8-5/8" hole from 4481' to 4650'. Mud weight 72#, 46 viscosity, 3.1 c.c. water loss.
- 10/28 Redrilled 8-5/8" hole from 4650' to 4758'. Mud weight 74#, 54 viscosity, 3.4 c.c. water loss.
- 10/29 Redrilled 8-5/8" hole from 4758' to 4839'. Mud weight 73#, 56 viscosity, 3.6 c.c. water loss.
- 10/30 Redrilled 8-5/8" hole from 4839' to 4958'. Mud weight 73#, 44 viscosity, 3.6 c.c. water loss.
- 10/31 Redrilled 8-5/8" hole from 4958' to 5074'. Mud weight 74#, 53 viscosity, 3.6 c.c. water loss.
- 11/1 Redrilled 8-5/8" hole from 5074' to 5213'. Mud weight 73#, 45 viscosity, 3.2 c.c. water loss.
- 11/2 Redrilled 8-5/8" hole from 5213' to 5405'. Mud weight 72#, 44 viscosity, 3.0 c.c. water loss.
- 11/3 Redrilled 8-5/8" hole from 5405' to 5610'. Mud weight 74#, 48 viscosity, 3.0 c.c. water loss.
- 11/4 Redrilled 8-5/8" hole from 5610' to 5723'. Mud weight 75#, 57 viscosity, 3.0 c.c. water loss.
- 11/5 Redrilled 8-5/8" hole from 5723' to 5816'. Mud weight 75#, 50 viscosity, 3.4 c.c. water loss.
- 11/6 Redrilled 8-5/8" hole from 5816' to 5969'. Mud weight 73#, 50 viscosity, 3.4 c.c. water loss.
- 11/7 Redrilled 8-5/8" hole from 5969' to 6182'. Mud weight 73.5#, 47 viscosity, 3.6 c.c. water loss.

OPERATOR: THE WATER ASSOCIATED OIL COMPANY

DATE: 2-4-1950

WELL NO.: Standard Eastern #12, Alice Canyon Field.

LOG NUMBER: 140-12-7

1950

- 11/8 Redrilled 8-5/8" hole from 6182' to 6390'. Mud weight 77 $\frac{1}{2}$ , 45 viscosity, 3.0 c.c. water loss.
- 11/9 Redrilled 8-5/8" hole from 6390' to 6448'. Mud weight 77 $\frac{1}{2}$ , 45 viscosity, 3.0 c.c. water loss.
- 11/10 Redrilled 8-5/8" hole from 6448' to 6519'. Mud weight 77 $\frac{1}{2}$ , 45 viscosity, 3.0 c.c. water loss.
- 11/11 Redrilled 8-5/8" hole from 6519' to 6592'. Mud weight 72 $\frac{1}{2}$ , 45 viscosity, 3.0 c.c. water loss.
- 11/12 Redrilled 8-5/8" hole from 6592' to 6683'. Oriented whiptack at 6683', North 79 $\frac{1}{2}$  West. Drilled 5-5/8" rat hole off whiptack to 6590'. Mud weight 77 $\frac{1}{2}$ , 45 viscosity, 3.0 c.c. water loss.
- 11/13 Drilled 5-5/8" rat hole off whiptack to 6693'. Opened rat hole to 8-5/8" and drilled to 6774'. Mud weight 73.5, 45 viscosity, 3.0 c.c. water loss.
- 11/14 Redrilled 8-5/8" hole from 6774' to 6861'. Mud weight 75 $\frac{1}{2}$ , 45 viscosity, 3.6 c.c. water loss. Mud weight 77 $\frac{1}{2}$ , 45 viscosity, 3.6 c.c. water loss.
- 11/15 Redrilled 8-5/8" hole from 6861' to 6939'. Mud weight 74 $\frac{1}{2}$ , 45 viscosity, 3.6 c.c. water loss.
- 11/16 Redrilled 8-5/8" hole from 6939' to 7022'. Mud weight 74 $\frac{1}{2}$ , 45 viscosity, 3.5 c.c. water loss.
- 11/17 Redrilled 8-5/8" hole from 7022' to 7106'. Mud weight 74 $\frac{1}{2}$ , 45 viscosity, 3.4 c.c. water loss.
- 11/18 Redrilled 8-5/8" hole from 7106' to 7214'. Mud weight 74 $\frac{1}{2}$ , 45 viscosity, 3.4 c.c. water loss.
- 11/19 Redrilled 8-5/8" hole from 7214' to 7328'. Mud weight 74 $\frac{1}{2}$ , 45 viscosity, 3.6 c.c. water loss.
- 11/20 Redrilled 8-5/8" hole from 7328' to 7432'. Mud weight 74 $\frac{1}{2}$ , 45 viscosity, 3.6 c.c. water loss.
- 11/21 Redrilled 8-5/8" hole from 7432' to 7507'. Mud weight 74 $\frac{1}{2}$ , 45 viscosity, 3.6 c.c. water loss.
- 11/22 Redrilled 8-5/8" hole from 7507' to 7595'. Lost and recovered drill collar and bit at 7518'. Mud weight 74 $\frac{1}{2}$ , 45 viscosity, 4.2 c.c. water loss.
- 11/23 Redrilled 8-5/8" hole from 7595' to 7633'. Mud weight 74 $\frac{1}{2}$ , 45 viscosity, 4.0 c.c. water loss.
- 11/24 Redrilled 8-5/8" hole from 7633' to 7711'. Mud weight 74 $\frac{1}{2}$ , 45 viscosity, 3.2 c.c. water loss.
- 11/25 Redrilled 8-5/8" hole from 7711' to 7750'. Mud weight 74 $\frac{1}{2}$ , 47 viscosity, 3.0 c.c. water loss.
- 11/26 Redrilled 8-5/8" hole from 7750' to 7823'. Mud weight 74.5 $\frac{1}{2}$ , 44 viscosity, 3.2 c.c. water loss.
- 11/27 Redrilled 8-5/8" hole from 7823' to 7893'. Mud weight 74 $\frac{1}{2}$ , 45 viscosity, 3.0 c.c. water loss.
- 11/28 Redrilled 8-5/8" hole from 7893' to 7977'. Mud weight 74 $\frac{1}{2}$ , 45 viscosity, 3.0 c.c. water loss.
- 11/29 Redrilled 8-5/8" hole from 7977' to 8099'. Mud weight 74 $\frac{1}{2}$ , 45 viscosity, 3.4 c.c. water loss.
- 11/30 Redrilled 8-5/8" hole from 8099' to 8192'. Mud weight 74 $\frac{1}{2}$ , 45 viscosity, 3.4 c.c. water loss.
- 12/1 Redrilled 8-5/8" hole from 8192' to 8265'. Mud weight 74 $\frac{1}{2}$ , 45 viscosity, 3.6 c.c. water loss.
- 12/2 Redrilled 8-5/8" hole from 8265' to 8325'. Mud weight 74 $\frac{1}{2}$ , 45 viscosity, 3.5 c.c. water loss.

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OPERATOR: THE WATER ASSOCIATED OIL COMPANY  
WELL NO.: Standard Person #12, Alice Canyon Field.

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1954

- 12/3 Redrilled 8-5/8" hole from 8325' to 8337'. Mud weight 74 $\frac{1}{2}$ , 47 viscosity, 3.4 c.c. water loss.
- 12/4 Redrilled 8-5/8" hole from 8337' to 8344'. Mud weight 74 $\frac{1}{2}$ , 46 viscosity, 3.5 c.c. water loss.
- 12/5 Redrilled 8-5/8" hole from 8344' to 8346'. Mud weight 74 $\frac{1}{2}$ , 47 viscosity, 3.2 c.c. water loss.
- 12/6 Redrilled 8-5/8" hole from 8346' to 8362'. Mud weight 74 $\frac{1}{2}$ , 45 viscosity, 3.2 c.c. water loss.
- 12/7 Redrilled 8-5/8" hole from 8362' to 8373'. Mud weight 74 $\frac{1}{2}$ , 46 viscosity, 3.2 c.c. water loss.
- 12/8 Redrilled 8-5/8" hole from 8373' to 8382'. Mud weight 74.5 $\frac{1}{2}$ , 46 viscosity, 3.4 c.c. water loss.
- 12/9 Redrilled 8-5/8" hole from 8382' to 8387'. Mud weight 74 $\frac{1}{2}$ , 46 viscosity, 3.4 c.c. water loss.
- 12/10 Redrilled 8-5/8" hole from 8387' to 8390'. Mud weight 73 $\frac{1}{2}$ , 45 viscosity, 3.2 c.c. water loss.
- 12/11 Redrilled 8-5/8" hole from 8390' to 8385'. Hole tight. Mud weight 74 $\frac{1}{2}$ , 45 viscosity, 3.0 c.c. water loss.
- 12/12 Redrilled 8-5/8" hole from 8385' to 8372'. Hole tight. Mud weight 74 $\frac{1}{2}$ , 47 viscosity, 3.0 c.c. water loss.
- 12/13 Redrilled 8-5/8" hole from 8372' to 8358'. Mud weight 80 $\frac{1}{2}$ , 57 viscosity, 3.0 c.c. water loss.
- 12/14 Redrilled 8-5/8" hole from 8358' to 9012'. Ran Eastman Multi-shots from 7940' to 9005'. Mud weight 81 $\frac{1}{2}$ , 60 viscosity, 3.1 c.c. water loss.
- 12/15 Redrilled 8-5/8" hole from 9012' to 9102'. Mud weight 80 $\frac{1}{2}$ , 71 viscosity, 3.0 c.c. water loss.
- 12/16 Redrilled 8-5/8" hole from 9102' to 9112' total depth. Ran Schlumberger electric log to 9102'. Conditioned mud. Mud weight 80 $\frac{1}{2}$ , 71 viscosity, 3.0 c.c. water loss.
- 12/17 Ran 8-5/8" and 7" casing to 9110'. Failed to gain circulation. Landed casing.

Casing Detail (top to bottom):

576'	7"	23 $\frac{1}{2}$ "	F-50, Speedrite
1433'	7"	23 $\frac{1}{2}$ "	J-35, Speedrite
2339'	7"	23 $\frac{1}{2}$ "	F-50, F & C
3454'	7"	23 $\frac{1}{2}$ "	J-35, F & C
	8-5/8" & 7"		Crossover
350'	8-5/8"	23 $\frac{1}{2}$ "	J-35, F & C
2269'	8-5/8"	23 $\frac{1}{2}$ "	F-50, Extramline
3440'	8-5/8"	23 $\frac{1}{2}$ "	F-50, F & C, thin
350'	8-5/8"	23 $\frac{1}{2}$ "	F-50, F & C
9110'			or 9001' below landing flange

3502 of 7

Ran Baker differential float shoe on bottom, Baker differential float collar 91' off bottom. Casing is equipped with 6 centralizers and 12 scratchers.

- 12/18 Laid down 4-1/2" drill pipe. Picked up 8-7/8" drill pipe.
- 12/19 Picked up 8-7/8" drill pipe. Circulated down casing with bit and conditioned mud to 9019'. Mud weight 75 $\frac{1}{2}$ , 51 viscosity, 4.0 c.c. water loss. Closed ram, displaced mud easily at 1200 $\frac{1}{2}$ .

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12/20 Ran Baker retrievable cement retainer on 2-7/8" drill pipe and set same at 9015'. Formation took fluid at 5 cu.ft. per minute rate at 2500#. Pumped in 78 sacks Victor H-temperature cement grouted with 78 cu.ft. Sealite, 1/4 Gal, followed by 25 sacks West cement. Displaced and exposed below retainer. Final pressure 2500#. Blad off to 1700# in 1 minute. No circulation to surface. Time 12:15 PM. R.J. Service. Float valve held O.K. Packed retainer and backcuttled. Standing cemented.

12/21 Found top of cement at 8992'. Drilled out cement from 8992' to 9105', including float collar at 9019'. Mud weight 7 1/2#, 45 viscosity, 3.6 s.c. water loss.

12/22 Ran McCallough Gamma Ray log and collar locator 8900'-9038'. Shot four jet holes at 8958' by McCallough. Ran J.C.T. on 2-7/8" drill pipe with 1000' water cushion, 3/8" beam, hydraulic tool. Set packer at 8996' with tailpipe to 8951'. Opened tester at 2:10 PM. Blow, medium steady for 2 minutes, then dead for balance of 1 hour test. Recovered 120' net rise normal drilling mud. Charts confirmed results of test. Shot four jet holes at 8917' by McCallough. W80. Ran J.C.T. on 2-7/8" drill pipe with 1000' water cushion, 3/8" beam, hydraulic tool. Set packer at 8783' with tailpipe to 8801'. Opened tester at 11:30 PM. Blow, medium steady for 15 minutes, light to medium heading for 25 minutes, then decreasing to faint steady at end of 1 hour test. Net rise 3920', including 900' of viscous drilling mud on top and 3000' of gassy drilling fluid on bottom. No free water. Charts show final pressure of 2500#. Water not shut off.

12/23 Ran Baker Model 'X' retainer and attempted to set same at 8745'. Retainer failed. Recovered and left retainer in hole. Ran 2nd Baker Model 'Y' retainer and set at 8715'. Displaced fluid at 7 cu.ft. per minute rate at 1950# pressure. Mixed and displaced 78 cu.ft. of Sealite grouted with 78 sacks Colton H-temperature cement, 1/4 Gal, preceded by 20 cu.ft. water. Exposed all of mix below retainer. Final pressure 2000#. Cement in place 4:05 PM. R.J. Service. Standing cemented.

12/24 Ran bit and scraper and drilled up retainer at 8715'. Drilled out hard cement from 8745' to 8830' and cleaned out to 9105'. Conditioned mud. Mud weight 7 1/2#, 51 viscosity, 4.0 s.c. water loss.

12/25 Shot four jet holes at 8860' (Big Husher) by McCallough. Ran J.C.T. on 2-7/8" drill pipe with 1000' water cushion and set packer at 8785' with tailpipe to 8807'. Tester would not go through tight spot at 8991'. Opened 3/8" beam at 5:05 PM. Had light blow for 2 minutes, increasing to steady blow for 30 minutes, then a decreasing blow for balance of 1 hour test. Recovered 2000' net rise consisting of 2500' gassy mud, 2380' muddy oil and 300' of muddy salt water on bottom, testing 396 g/g.

12/26 Ran Baker Model 'X' retainer on 2-7/8" drill pipe. Retainer held up at bad spot in 6-5/8" casing at 8991'. Retainer passed through, but failed to set. Left retainer in hole. Ran Baker Model 'X' retainer without junk pusher. Stopped at 8991'. Set retainer at 8995'. Formation broke down at 8 cu.ft. per minute rate at 2600#. Mixed 85 sacks Victor H-temperature cement grouted with 84 cu.ft. Sealite and 1/4 Gal. Exposed 150 cu.ft. aggregate through holes at 8880'. Final pressure 5000# with 2500# backup pressure. Time 12:15 AM (12-27-54) R.J. Service. Standing cemented.

12/27 Ran 5-5/8" bit and Baker scraper and found top of retainer at 8787'. Drilled out retainer and worked tight spot at 8991'. Tight spot apparently worked free. Found top of cement at 8717'. Cleaned out firm cement to 8950'. Conditioned mud. Shot four jet holes by McCallough at 8815'. Mud 71.9#, 44 viscosity, 3.6 s.c. water loss.

OPERATOR: TIDE WATER ASSOCIATED OIL COMPANY

MAR 24 1955

WELL NO.: Standard Sesnon #12, Aliso Canyon Field.

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1954

- 12/28 Ran Johnston casing tester. 3/8" bean. 1000' water cushion, hydraulic tool on 2-7/8" drill pipe. Set packer at 8584' with tailpipe to 8602'. Opened tester at 10:15 AM. Had medium steady blow for 28 minutes, strong blow for 10 minutes (estimated 500 MCF rate), medium blow for balance of 1 hour test. Final rate 100 MCF. Gas to surface in 10 minutes. Recovered 3870' net rise, including 270' watery drilling fluid, 900' gassy, oily mud, 2700' oil cutting 10% mud. Gravity 17.5. No free water. Final flow pressure 1600#. Deferred decision from Division of Oil and Gas. Ran bit and scraper and conditioned mud to 8850'. Ran Baker Model "K" retainer but unable to set. Unscrewed and left retainer at 8560'. Mud weight 69#, 43 viscosity, 3.8 c.c. water loss.
- 12/29 Ran McGaffey-Taylor drillable retainer and set at 8520'. Broke formation at 3200# at 8 cu.ft. per minute. Mixed and displaced 100 sacks Colton Hi-temperature cement. Displaced to 8560'. Final pressure 3800#. Dropped to 3200# in 1 minute. Time 12:05 PM. B.J. Service. Ran 5-5/8" Globe bit and measured in hole on hook. Drill pipe measurement checked within 2'. Standing cemented.
- 12/30 Found top of retainer at 8520'. Cleaned out retainer and found top of cement at 8560'. Cleaned out cement from 8560' to 8818'. Conditioned mud from 8818' to 8850'. Cleaned out cement from 8850' to 8882'. Conditioned mud from 8882' to 9100'. Pulled bit and ran 5-5/8" bit and scraper to 9105'. Cleaned out cement from 9105' to 9107'.
- 12/31 Pulled bit and scraper. Ran blank drill pipe to 9107' and backscuttled remainder of retainers. Shot four 1/2" ogival bullet holes per foot from 9107'-9055' by McCullough.

1955

- 1/1/55 Shot four 1/2" ogival bullet holes per foot in intervals 9045' to 8963'; 8935' to 8890'; 8870' to 8825' by McCullough. Scraped perforated intervals 8825' to 9107' with Baker casing scraper. Circulated out drilling mud with salt water. Laying down 2-7/8" drill pipe.
- 1/2 Completed laying down 2-7/8" drill pipe. Ran 2-7/8" tubing with gas lift valves and Guiberson hook wall packer and landed packer at 8541' K.B. with 16,000#. Tubing landed 11' below Kelly Bushing.
- 1/3 Connected gas injection line to well at 12:00 Noon. Flowed 56 barrels, all circulating fluid. 1000# casing pressure, Lower tubing head flange leaking.
- 1/4 Repairing leak in lower flange of tubing head. Released crew 8:00 AM. 1-3-55.
- 1/5 Repaired tubing head flange. Began injecting gas at 4:00 PM. In 14 hours well flowed 64 barrels circulating fluid, 16/64" bean, 100# tubing pressure, 1150# casing pressure.
- 1/6 Flowed 91 barrels, all circulating fluid. 16/64" bean, 100# tubing pressure, 1150# casing pressure.
- 1/7 Flowed on compressor 141 barrels, all circulating fluid.
- 1/8 Flowed on compressor 103 barrels gross, of which 48 barrels is circulating fluid and 55 formation oil, cut 50%, 27 barrels net formation oil.
- 1/9 Flowed on compressor 144 barrels gross, cut 50% emulsion, 3% water, 14.2 gravity, 500# tubing pressure, 1075# casing pressure, 16/64" bean, 200 MCF injected gas.
- 1/10 In 18 hours well flowed on compressor 114 barrels gross, 105 net, 8.0% cut, 18/64" bean, 575# tubing pressure, 1075# casing pressure. Gas injection line froze for 6 hours.

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OPERATOR: TIDE WATER ASSOCIATED OIL COMPANY  
WELL NO.: Standard Sesnon #12, Aliso Canyon Field.

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1/11 Flowed on compressor 175 barrels gross, 10<sup>4</sup> net, 42.0% cut (includes 30% free water, 12% emulsion), 16.5 wet gravity, 16-20/64" bean, 475# tubing pressure, 1075# casing pressure.

1/12 Flowed on compressor 205 barrels gross, 13<sup>4</sup> net, 35% total water cut which includes 30% free water, 20% emulsion, 17.0 wet gravity, 20/64" bean, 500# tubing pressure, 215 MCF injected gas, 40 MCF net gas.

	<u>Gross</u>	<u>Net</u>	<u>Cut</u>	<u>Bean</u>	<u>Gravity</u>	<u>Tubing Pressure</u>	<u>Casing Pressure</u>	<u>MCF Inj.</u>	<u>MCF Net</u>
1/13	226	170	25.0%	20/64"	17.0	325#	1075#	217	57
	(average cut 16% water, 10% emulsion)								
1/14	287	178	25.0%	20/64"	16.7	325#	1075#	201	83
	(including 8% free water, 28% emulsion)								
1/15	226	169	25.0%	26/64"	16.7	325#	1075#	217	119
	(including 4% free water, 30% emulsion)								
1/16	239	179	25.0%	26/64"	16.7	325#	1075#	173	57
	(including 20% free water, 20% emulsion)								
1/17	233	157	32.0%	26/64"	16.7	325#	1075#	214	74
1/18	244	166	32.0%	26/64"	16.7	325#	1075#	220	103
1/19	335	234	30.0%	20/64"	16.7	310#	1075#	223	101
1/20	300	216	28.0%	24/64	16.7	310#	1075#	223	101
1/21	325	234	28.0%	24/64	16.7	300#	1000#	220	212
1/22	315	227	28.0%	24/64	16.7	275#	1000#	234	214
1/23	300	216	28.0%	24/64	16.7	275#	1000#	215	198
1/24	330	247	25.0%	24/64	16.7	350#	950#	222	223
1/25	340	258	24.0%	24/64	16.7	350#	950#	205	123
1/26	340	258	24.0%	24/64	16.7	350#	950#	120	161
1/27	341	246	28.0%	24/64	16.7	350#	950#	226	89
1/28	341	246	28.0%	24/64	16.7	350#	950#	225	125
1/29	341	246	28.0%	24/64	16.7	350#	950#	214	148
1/30	341	246	28.0%	24/64	16.7	350#	950#	204	108
1/31	250	200	20.0%	24/64	16.7	350#	950#	52	95
2/1	200	164	18.0%	24/64	16.7	350#	950#	100	108
	Off 10 hours - injection line froze.								
2/2	200	164	18.0%	24/64	16.7	350#	950#	153	41
	Injection line froze.								
2/3	250	200	20.0%	24/64	16.7	300#	950#	225	82
2/4	250	200	20.0%	24/64	16.7	300#	950#	203	88
2/5	250	200	20.0%	24/64	16.7	300#	950#	231	69
2/6	250	200	20.0%	24/64	16.7	300#	950#	235	98
2/7	250	200	20.0%	24/64	16.7	300#	950#	213	83
2/8	250	200	20.0%	24/64	16.7	300#	950#	230	114
2/9	250	200	20.0%	24/64	16.7	300#	950#	96	122

MAR 24 1970

OPERATOR: TIDE WATER ASSOCIATED OIL COMPANY

WELL NO.: Standard Section #12, Alton Canyon Field.

CASING RECORD

28"		C	12'	
12-3/8"	12-3/8"	C	720'	
8-5/8"	8-5/8"	to	3770'	(Window 3770'-3784')
6-5/8" & 7"	6-5/8", 6-3/4", 6-1/2"		9110'	& 2 8978'; C.P. 8817'; 8680'; 8515'
				& 2 9107'-9055'; 9045'-8963'
				8935'-8890'; 8870'-8825'

LOG

1045'	2-5/8"	C	1830'	Top 3784'
2055'	7"	C	8835'	Top 3780' (Section 7952'-7973')
156'	5"	L	9000'	Inc. 164' 24". Top 8804'

TOOLS RECORD

2-7/8" w/gas lift valves & plr. 1 8941' K.S.

## DIVISION OF OIL AND GAS

## Report on Test of Water Shut-off

(FORMATION TESTER)

No. T155-700

Mr. Thomas E Weaver  
Box "Y" Los Angeles Calif.  
Los Nietos California March 31 19 55  
 Agent for TIDE WATER ASSOCIATED OIL COMPANY

DEAR SIR:

Your well No. "Standard-Sesnon 1" 12, Sec. 29, T. 3 N, R. 16 W, S D B & M.  
Aliso Canyon Field, in Los Angeles County, was tested for water shut-off  
 on December 28, 19 54. Mr. M Dosch, Engineer, designated by the supervisor was present  
 from 3:30 p.m. to 4:30 p.m. as prescribed by law; there were also present R. M. Burns, Engineer  
R R Frantz, Drilling Foreman

Shut-off data: 7&6-5/8 in. 23, 24, 28 lb. casing was cemented xxx at 9110 ft.  
 on December 20, 19 54 in. 8-5/8 in. hole with 78 ~~cu. ft.~~ sacks of cement  
 mixed with 78 cu. ft. sealite and 4% gel followed by 25 sacks of neat cement calculated to fill behind casing to 8072 ft. below surface.

Casing record of well: 20" cem. 42'; 13-3/8" cem. 790'; 9-5/8" cem. 4830', milled through at 3770'  
7" (5657' of 6-5/8" on bottom) cem. 9110', c.p. 8817', 8880', bad at 8591'; four 1/2" holes 8958';  
four 1/2" test holes 8816', W.S.O.; T.D. (1st hole) 9004'; T.D. (2nd hole) 8032'; T.D. (3rd hole) \*

Present depth 9112 ft. cmt. bridge 9110 ft. to 9105 ft. Cleaned out cmt. 8992 ft. to 9105 ft. for test.

A pressure of xxx lb. was applied to the inside of casing for xxx min. without loss after cleaning out to xxx ft.

A Johnston tester was run into the hole on 2-7/8 in. drill pipe ~~with~~  
 with 1000 ft. of water ~~mark~~ cushion, and packer set at 8584 ft. with tailpiece to 8602 ft.

Tester valve, with 3/8 in. bean, was opened at 10:15 a.m. and remained  
 open for 1 hr. and xxx min. During this interval there was a medium steady blow for 28 minutes,

a strong steady blow for 10 minutes, and a medium blow for the remainder of the test.

Mr. Burns reported:

\*8646'; T.D. (4th hole) 8782'; T.D. (5th hole) 8621'.

1. On July 11, 1954, 11 sacks of cement was squeezed away through perforations in the 5-1/2" liner from 8836'-9000' under a final pressure of 3000 Psi. The top of the cement was located at 8340'.
2. A window was milled in the 7" casing from 7973'-7992'.
3. A permanent whipstock was cemented at 7982' and a 6" hole was drilled to 8032'.
4. This second hole was lost and after recementing the whipstock a third 6" hole was drilled from 7984'-8646'. The 6" hole was opened to 7-5/8" from 8200-8240'.
5. On August 19 and 20, 1954, 160 sacks of cement and 10% sand was pumped into the hole in stages through 3-1/2" drill pipe hanging at 8630', filling to 8032'. The cement was drilled out to 8222'.
6. A removable whipstock was set at 8222' and a fourth 6" hole was drilled to 8782'.
7. A Baker scraper, sub, 2-7/8" drill pipe and bit were lost in the hole from 8782'-8050'.
8. On September 17, 1954, 62 sacks of cement and 13 sacks of sand was pumped into the hole through 2-7/8" drill pipe hanging at 8103', filling to 7763'. The cement was drilled out to 8039'.
9. A removable whipstock was set at 8039' and a fifth 6" hole was drilled to 8621'.
10. A bit, reamer, 2 drill collars and 2-7/8" drill pipe were lost in the hole from 8621'-8305'.
11. On October 13, 1954, 75 sacks of cement was pumped into the hole in stages through 3-1/2" drill pipe hanging at 8311', filling to 7773'.
12. The 7" casing was cut and recovered from 3780'.
13. A permanent whipstock, top at 3770', was cemented in the hole, and a window was milled in the 9-5/8" casing from 3770'-3784'.

E. E. MUSSER  
~~R. D. DUBOIS~~, State Oil and Gas Supervisor

By (CONTINUED ON PAGE 2) \_\_\_\_\_, Deputy

**DIVISION OF OIL AND GAS**

**Report on Test of Water Shut-off**

No. T. 155-700

OR

**Special Report on Operations Witnessed**

Page 2

TIDE WATER ASSOCIATED OIL COMPANY

Well No. "Standard-Sesson 1" 12, Sec. 29, T. 3 N, R. 16 W, S. B. B. & M.

- 14. An 8-5/8" rotary hole was drilled 3770'-9112'.
- 15. On December 20, 1954, a combination string consisting of 3502' of 7" casing and 5608' of 6-5/8" casing was cemented as noted above.
- 16. The 6-5/8" casing was shot-perforated with 4, 1/2" holes at 8958' and tested dry.
- 17. The 6-5/8" casing was shot-perforated with 4, 1/2" holes at 8817' and tested wet.
- 18. A retainer was set at 8715'.
- 19. On December 23, 1954, the 6-5/8" casing was recemented through perforations at 8817' with 78 sacks of cement mixed with 78 cu. ft. of sealite plus 4% gel, of which all was squeezed away under a final pressure of 4000 Psi.
- 20. The 6-5/8" casing was shot-perforated with 4, 1/2" holes at 8880' and tested wet.
- 21. A retainer was set at 8585'.
- 22. On December 26, 1954, the 6-5/8" casing was recemented through perforations at 8880' with 86 sacks of cement pre-mixed with 84 cu. ft. sealite and 4% gel, of which all was squeezed away under a final pressure of 5000 Psi.
- 23. The 6-5/8" casing was shot-perforated with 4, 1/2" holes at 8816'.
- 24. The packer could not be set below 8591' because of bad pipe.

**THE ENGINEER NOTED THE FOLLOWING:**

- 1. When the drill pipe was removed, a net recovery of 3870' of fluid, consisting of 270' of watery drilling fluid, 900' of gassy oily mud and 2700' of oil, was found in the drill pipe above the tester, equivalent to 17.6 bbl.
- 2. There was no evidence of free water.
- 3. The recording pressure bomb chart showed that the tester valve was open 1 hour.

The production data sent in by the company on form 110 for the month of January 1955 indicated this well produced 5097 barrels of 20.6° gravity oil and 1296 barrels of water for a 23.3% water cut. This water production is comparable to the surrounding wells producing from the Sesson zone.

**THE 6-5/8" SHUT-OFF AT 8816' IS APPROVED.**

**NOTE:** This report was delayed pending receipt of additional data by the operator, which data was received March 24, 1955.

MD:BS

cc F W Hertel

R S Carl

J R Bowyer (2)

*D*  
*G*

~~XXXXXXXXXX~~ **E. H. MUSSER**  
State Oil and Gas Supervisor

By *R. W. Halling* Deputy

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS  
REPORT ON PROPOSED OPERATIONS

No. P 154-852

Mr. Thomas E. Weaver  
Box 878 Los Angeles California  
Los Nietos Calif July 14 19 54  
Agent for TIDE WATER ASSOCIATED OIL CO

DEAR SIR: Your redrill and proposal to deepen Well No. 12 "Standard-Season 1"  
Section 29, T.3 N., R.16 W., S. E. B. & M., Aliso Canyon Field, Los Angeles County,  
dated July 12 1954, received July 13 1954, 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 7" water shut-off test made through four 1/2" holes at 8800' was approved.

THE NOTICE STATES:

"The present condition of the well is as follows:

1. Total depth.	9004'				
2. Complete casing record.	20"	C	42'		
	13-3/8"	C	790'		
	9-5/8"	C	483'		
	7"	C	8835'		
	196'	5"	L	9000'	Top 8804' Pf. 8836'-9000'
3. Last produced.	July, 1954		Avg. 22 B/D	21.6	6.0%
	(Date)		(% of Oil)	(Gravity)	(Out)

PROPOSAL:

"The proposed work is as follows:

1. Plug well with cement from 9000' to 8600'.
2. Mill out window in 7" casing at 8100' and redrill to approximately 9135'.
3. Cement 5" blank liner on bottom with 100' lap in 7" casing.
4. Obtain water shutoff on 5" to 7" splice. Test to be witnessed and approved by Division of Oil and Gas.
5. Obtain zonal segregation in Sg shale (approximate 8955').
6. Obtain water shutoff at the top of Season Zone (approximately 8835').  
Test to be witnessed and approved by Division of Oil and Gas.
7. Perf. portions of the Season Zone & complete well."

DECISION:

THE PROPOSAL IS APPROVED PROVIDED THAT

1. Mud fluid consistent with good drilling practice shall be used and the column of mud fluid maintained at all times to the surface, particularly while pulling the drill pipe.
2. Adequate blowout prevention equipment shall be installed and maintained in operating condition at all times.
3. THIS DIVISION SHALL BE NOTIFIED TO WITNESS
  - (a) A test after cleaning out below the top of the liner to demonstrate that no fluid has access to the well between the 5" and 7" casings.
  - (b) A test of the effectiveness of the 5" shut-off at about 8835'.

E. H. MUSSER

State Oil and Gas Supervisor

FKS: S  
cc T L Vark, R S Carl, J R Jovyer (2)

By A. W. Walling Deputy

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.H. & 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.H. & M., to Sec. 29

Wells No. "Standard-Season 1" 4  
          "Standard-Season 1" 10  
          "Standard-Season 1" 12  
          "Standard-Season 1" 24 *Sec 28 (See well records)*

Very truly yours



R W WALLING  
Deputy Supervisor

FEK:my

cc - Messrs E H Musser  
      T L Wark  
      J R Bovyer (2)  
      R S Carl

OIL & GAS  
RECEIVED  
APR 5 - 1948  
LOS ANGELES, CALIFORNIA

Box "Y"  
Los Nietos, California

April 2, 1948

Division of Oil & Gas  
1015 West Olympic Blvd.  
Los Angeles 15, California

Attention: Mr. J. L. White

Gentlemen:

Enclosed herewith are two maps which indicate the Townships and Sections in the vicinity of Aliso Canyon Field. I hope these will satisfactorily solve your problem.

In checking these maps I noticed that the notice of intention to drill Sesnon #1-12 indicates the well to be in Section 28. Your notice should be amended, as the well is in Section 29.

TIDE WATER ASSOCIATED OIL COMPANY

  
Petroleum Engineer (District)

WEP:kk

*Hold for receipt of map from  
Oil Map Assn. J.L.W.*

*MAN  
AHAM*

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS  
RECEIVED

JUL 13 1954

LOS ANGELES, CALIFORNIA

DIVISION OF OIL AND GAS

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

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

Los Nietos Calif. July 12, 19 54

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~~ <sup>or</sup> altering casing at Well No. Standard-Session 1-12

(Cross out unnecessary words)

Alio Canyon, Sec. 29, T. 3 N, R. 16 W, S.B. B & M.

Alio Canyon

Los Angeles

Field,

County.

The present condition of the well is as follows:

1. Total depth. 900'
2. Complete casing record.
 

20"	C	12'	
13-3/8"	C	790'	
9-5/8"	C	4830'	
7"	C	8835'	
196'	5"	L	9000' Top 8804' Pf. 8835'-9000'

*Redrill & Deepen*

MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121

*Blanket of my*

3. Last produced. July, 1954 (Date) AVG. 22 B/D (Net Oil) 20.6 (Gravity) 0.0% (Grit)

The proposed work is as follows:

1. Plug well with cement from 9000' to 8600'.
2. Mill out window in 7" casing at 8100' and redrill to approximately 9135'.
3. Cement 5" blank liner on bottom with 100' lap in 7" casing.
4. Obtain water shutoff on 5" to 7" splices. Test to be witnessed and approved by Division of Oil and Gas.
5. Obtain zonal segregation in S<sub>2</sub> shale (approximately 8955').
6. Obtain water shutoff at the top of Session Zone (approximately 8835'). Test to be witnessed and approved by Division of Oil and Gas.
7. Perf. portions of the Session Zone & complete well.

TIDE WATER ASSOCIATED OIL COMPANY

(Name of Operator)

By J. E. Weaver Agent

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

AUG 5 - 1943

WELL SUMMARY REPORT

Operator ELDE WATER ASSOCIATED OIL COMPANY Field ALISO CANYON

Well No. STANDARD-SESNON #1-12 Sec. 29 T. 3 N, R. 16 W, S.B. B. & M.

Location 2841.46' south and 7834.15' west of Station #44 Elevation of ground above sea level 2276.25 feet.  
All depth measurements taken from top of drill floor, which is 9 feet above ground.

In compliance with the provisions of Chapter 93, Statutes of 1939, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date August 3, 1943 Signed T. C. Foster

W. E. Parker (Engineer or Geologist) H. S. Cusi (Superintendent) Title Agent (President, Secretary or Agent)

Commenced drilling February 12, 1943 Completed drilling May 13, 1943 Drilling tools XIII Rotary

Total depth 9004' Plugged depth 0' GEOLOGICAL MARKERS DEPTH

Junk \_\_\_\_\_

Commenced producing June 1, 1943 (date) Flowing/~~gas lift/compressor~~ (cross out unnecessary words)

6/2/43  
Initial production  
7/5/43  
Production after 30 days

Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
363	20.2	1.4%	110 Est.	0#	0#
151	20.7	2.0%	69	525#	2050#

CASING RECORD (Present Hole)

Size of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Seamless or Lapweld	Grade of Casing	Size of Hole Casing landed in	Number of Sacks of Cement	Depth of Cementing if through perforations
20"	42'	0'					32"		
17-3/8"	790'	0'	54.5#	New	Seamless	J-55 T&C	17"	500	
15-1/8"	4830'	0'	40#	New	Seamless	J-55 Spindrite	12-1/4"	500	
7"	8835'	0'	89.26, 23#	New	Seamless	J-55 N-80	8-1/2"	500	
5"	9000'	8804'	18#	New	Seamless	J-55 F.J.	6"	0	

PERFORATIONS

Size of Casing	From	To	Size of Perforations	Number of Rows	Distance Between Centers	Method of Perforations
5"	8836 ft.	9000 ft.	80 Mesh 2" slots	12	6"	Pacific undercut
	ft.	ft.				
	ft.	ft.				
	ft.	ft.				

MAP	MAP BOOK	CARDS	BOND	FORMS
				114   121

Electrical Log Depths 790' - 9004' (Attach Copy of Log)

SUBMIT IN DUPLICATE  
STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

AUG. 1948

History of Oil or Gas Well

OPERATOR THE WATER ASSOCIATED OIL COMPANY FIELD ALISO CANYON

Well No. STANDARD SECTION #1-12, Sec. #29, T. 3 N, R. 16 W, S.E. B. & M.

Signed J. C. Foster

Date August 3, 1948 Title Agent  
(President, Secretary or Agent)

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

Date	Description
1948	9004* T.D.
12/26 - 12/29	Cleared rig site.
12/30 - 12/31	Graded rig site.
1/1/48	Idle.
1/2 - 3	Graded rig site.
1/4	Idle.
1/5 - 1/7	Graded rig site.
1/8 - 1/10	Graded road and rig site.
1/11	Idle.
1/12 - 1/17	Graded road and rig site.
1/18	Idle.
1/19 - 1/24	Graded road and rig site.
1/25	Idle.
1/26 - 1/27	Graded road and rig site.
1/28	Drilled 13" hole and cemented 20" stove pipe casing at 33' with 3 yards concrete.
1/29	Log cellar and built foundation forms.
1/30	Built foundation forms.
1/31 - 2/1	Idle.
2/2 - 2/3	Poured foundation concrete.
2/4	Erected derrick.
2/5	Built casing racks.
2/6	Erecting derrick.
2/7	Finished erecting derrick. Building casing racks.
2/8	Built casing racks.

SUBMIT IN DUPLICATE  
 STATE OF CALIFORNIA  
 DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

1 V  
 AUG 5 1948

History of Oil or Gas Well

OPERATOR WHITE WATER ASSOCIATED OIL COMPANY FIELD ALISO CANYON  
 Well No. STANDARD-SERSON #1-12, Sec. 29, T. 3 N, R. 16 W, S. B., B. & M.  
 Signed J. C. Foster  
 Date August 3, 1948 Title Agent  
 (President, Secretary or Agent)

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

Date  
 1948

- 2/9 Moving rotary.
- 2/11 Rigged up rotary.
- 2/12 Spudded 12-1/4" hole at 1:00 P.M. and drilled from 42' to 102'. Corrected depth of conductor casing to 42' from derrick floor.
- 2/13 Drilled 12-1/4" hole from 102' to 604'.
- 2/14 Drilled 12-1/4" hole from 604' to 987'. Opened 12-1/4" hole to 17" from 42' to 255'.
- 2/15 Opened 12-1/4" hole to 17" from 255' to 790'. Ran and cement 13-3/8" 54.5# I-55 T&C casing at 790' with 500 sacks Colton Construction cement. Treated first and last 50 sacks with quick setting chemical. Had good cement returns to surface. Time 3:30 P.M. International Bulk Method.
- 2/16 Drilled 11" hole from 987' to 1007'. Installed cellar connections. Closed out hard cement and plugs from 750' to 810'.
- 2/17 Drilled 11" hole from 1007' to 1395'. Mud weight 75#; viscosity 47; water loss 9.7 cc; 15 minutes test; 1.25 filter cake.
- 2/18 Drilled 11" hole from 1395' to 1701'. Lost circulation while drilling at 1701'. Mixed beet pulp and regained circulation. Mud weight 69#; viscosity 55; water loss 5.1; filter cake 1.25.
- 2/19 Drilled 11" hole from 1701' to 1978'. Mud 69#; viscosity 60; water loss 11; filter cake 2.0.
- 2/20 Drilled 11" hole from 1978' to 2184'. Lost circulation while drilling at 1978' but conditioned mud with Atlas chemical and regained circulation.
- 2/21 Drilled 11" hole from 2184' to 2506'.
- 2/22 Drilled 11" hole from 2506' to 2715'. Drilling with partial circulation. Mixed cotton seed hulls with mud.
- 2/23 Drilled 11" hole from 2715' to 3094'.
- 2/24 Drilled 11" hole from 3094' to 3453'.

DIVISION OF OIL AND GAS

History of Oil or Gas Well

AUG 6 - 1948

OPERATOR TIDE WATER ASSOCIATED OIL COMPANY FIELD ALISO CANYON

Well No. BRANDERBERRY #1-17, Sec. 29, T. 3 N, R. 16 W, S. R. B. & M.

Signed J. C. Foster

Date August 3, 1948 Title Agent  
 (President, Secretary or Agent)

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

Date	Description
2/15	Drilled 11" hole from 3453' to 3466'. Mud 70/60.
2/26	Drilled 11" hole from 3466' to 4072'. Added cotton seed to mud to maintain circulation.
2/27	Drilled 11" hole from 4072' to 4263'. Added rice hulls to mud and 10 barrels L-25 fibre mud.
2/28	Drilled 11" hole from 4263' to 4481'. Added rice hulls to mud.
2/29	Drilled 11" hole from 4481' to 4684'. Lost circulation while drilling at 4684'. Hung 4" drill pipe at 1600' and pumped in 300 sacks Colton Construction cement all treated with quick setting chemical. Pulled drill pipe to 850' and squeezed an estimated 150 sacks away. Final pressure 350#. Time 11:00 P.M. International Cementers Inc.
3/1	Cleaned out to 1600' and found no cement. Lost circulation while cleaning out. Hung 4" drill pipe at 1630' and pumped in 100 sacks Colton Construction cement all treated with quick setting chemical. Final pressure 0#. Time 12:30 P.M. No circulation while displacing cement. Cleaned out to 1750' and found only stringers of cement beginning at 1520'. Hung 4" drill pipe at 1750' and pumped in 100 sacks Colton Construction cement all treated with quick setting chemical. Had no circulation while displacing cement. Time 10:00 P.M.
3/8	Cleaned out to 1688' without circulation and found no cement in hole. Hung blank drill pipe at 1690' and pumped in 75 bbls. of mud, mixed with rice hulls followed by 100 sacks of Colton Construction cement all treated with quick setting chemical and mixed with 60 pounds Dow flakes. No circulation while displacing cement. Time 3:15 P.M. Mud 70#; viscosity 54; 3l cc. fluid loss; 3.5 mm. filter cake.
3/3	Cleaned out to 3200' and lost circulation. Hung blank drill pipe at 1632' and pumped in 140 sacks of rice hulls. Closed cage and held 350# pressure for one hour. Mud 71#; viscosity 60; 24.0 cc. fluid loss; 3.5 mm. filter cake.
3/4	Drilled 11" hole from 4684' to 4746'. Cleaned out to 4684' and conditioned mud. Circulation OK. Drilled ahead.

SUBMIT IN DUPLICATE  
STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS AUG 5 - 1948

History of Oil or Gas Well

OPERATOR THE WATER ASSOCIATED OIL COMPANY FIELD ALISO CANYON

Well No. STANDARD SEASON #1-12, Sec. 29, T. 3 N, R. 16 W, S. 3. B. & M.

Signed J. C. Foster

Date August 3, 1948

Title Agent

(President, Secretary or Agent)

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

- Date 12/18
- 3/5 Drilled 11" hole from 4746' to 4826'. Lost circulation while drilling at 4826'. Hung blank drill pipe at 1625' and with rams closed pumped in 105 sacks rice hulls mixed with 60 bbl. Gal mud. Final pressure 1000#. Held 1000# pressure for one hour without loss. Mud 71#; viscosity 60; fluid loss 19; filter cake 3.0.
  - 3/6 Circulated and cleaned out to 4826'. Ran 12-1/4" bit and cleaned out from 790' to 957'. Mud 71#; viscosity 60; fluid loss 22; filter cake 3.5.
  - 3/7 Opened 11" hole to 12-1/4" from 1550' to 2200'. Reamed 12-1/4" hole from 1260' to 2086'. Mud loss for day approximately 50 barrels.
  - 3/9 Opened 11" hole to 12-1/4" from 2200' to 2924'. Mud loss for day approximately 50 barrels.
  - 3/10 Opened 11" hole to 12-1/4" from 2924' to 3560'. Mud 74#; viscosity 42; 13 cc. water loss; 3.0 filter cake. Mud loss for day approximately 100 barrels.
  - 3/11 Opened 11" hole to 12-1/4" from 3560' to 4258'. Mud 74/40. 7.1 cc. fluid loss; 1.5 filter cake. Mud loss for day approximately 100 barrels.
  - 3/12 Opened 11" hole to 12-1/4" from 4258' to 4652'. Mud 75#; viscosity 42; fluid loss 3.8; 1.75 filter cake.
  - 3/13 Opened 11" hole to 12-1/4" from 4652' to 4826' and drilled to 4830'. Ran Schlumberger electric log. Reamed 12-1/4" hole from 801' to 1760' with Grant double three-point reamer. Mud 74#; viscosity 43; 7.5 fluid loss; 1.5 filter cake.
  - 3/14 Reamed 12-1/4" hole from 1760' to 4830' with Grant double three-point reamer. Ran and cemented 9-5/8", 40# J-55 Youngstown Speedtite casing at 4830' with 500 sacks Celton Slow cement. No circulation while cementing casing. Pressure increased from 1100 to 1300# when plugs bumped. Time 10:30 P.M.
  - 3/15 Standing cemented.
  - 3/16 Cleaned out cement and plugs from 4785' to 4830'.

**DIVISION OF OIL AND GAS**

**History of Oil or Gas Well**

OPERATOR WIDE WATER ASSOCIATED OIL COMPANY FIELD ALISO CANYON

Well No. STANDARD 22000 #1-12, Sec. 29, T. 3 N, R. 16 W, S. 1/4 B. & M.

Signed T. C. Foster

Date AUGUST 3, 1948 Title Agent  
 (President, Secretary or Agent)

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

Date	Description
3/17	Drilled 8-1/2" hole from 4830' to 4957'. Mud 77/45.
3/18	Drilled 8-1/2" hole from 4957' to 5205'. Mud 78/45.
3/19	Drilled 8-1/2" hole from 5205' to 5393'. Mud 82.5#; viscosity 35; fluid loss 8.6 cc.; filter cake 1.75 mm.
3/20	Drilled 8-1/2" hole from 5393' to 5514'.
3/21	Drilled 8-1/2" hole from 5514' to 5599'. Mud 81#; viscosity 30; fluid loss 5.5 cc.; filter cake 1.0 mm.
3/22	Drilled 8-1/2" hole from 5599' to 5693'. Mud 81.5#; viscosity 31; fluid loss 5.9 cc.; filter cake 1.25 mm.
3/23	Drilled 8-1/2" hole from 5693' to 5795'. Mud 81.5#; viscosity 30; fluid loss 5.8 cc.; filter cake 1.0 mm.
3/24	Drilled 8-1/2" hole from 5795' to 5871'.
3/25	Drilled 8-1/2" hole from 5871' to 5908'. Mud 82.5#; viscosity 33; fluid loss 4.0 cc.; filter cake 1.0 mm.
3/26	Drilled 8-1/2" hole from 5908' to 5983'. Mud 82.5#; viscosity 35; fluid loss 3.5 cc.; filter cake 1.0 mm.
3/27	Drilled 8-1/2" hole from 5983' to 6084'. Mud 82.5#; viscosity 29; fluid loss 4.9 cc.; filter cake 1.0 mm.
3/28	Drilled 8-1/2" hole from 6084' to 6150'.
3/29	Drilled 8-1/2" hole from 6150' to 6229'.
3/30	Drilled 8-1/2" hole from 6229' to 6347'. Mud 82.5#; viscosity 32; fluid loss 5.1 cc.; filter cake 1.0 mm.
3/31	Drilled 8-1/2" hole from 6347' to 6462'. Mud 82.5#; viscosity 36; fluid loss 5.2 cc.; filter cake 1.0 mm.
4/1	Drilled 8-1/2" hole from 6462' to 6535'. Mud 82.5#; viscosity 35; fluid loss 5.4 cc.; filter cake 1.0 mm.
4/2	Drilled 8-1/2" hole from 6535' to 6626'. Mud 82.5#; viscosity 34; fluid loss 5.3 cc.; filter cake 1.0 mm.

SUBMIT IN DUPLICATE  
STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

AUG 1 1946

History of Oil or Gas Well

OPERATOR FINN WAGEN ASSOCIATED OIL COMPANY FIELD ALISO CANTON

Well No. STANDARD RESERVOIR #1-12, Sec. 29, T. 3 N, R. 16 W, S.B.B. & M.

Signed J. C. Foster

Date August 3, 1946

Title Agent

(President, Secretary or Agent)

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

Date	Description	Mud	Viscosity
1946			
4/3	Drilled 8-1/2" hole from 6524' to 6715'. Fluid loss 5.4 cc.; filter cake 1.0 mm.	62.5#	36;
4/4	Drilled 8-1/2" hole from 6715' to 6806'. Fluid loss 5.2 cc.; filter cake 1.0 mm.	53.5#	35;
4/5	Drilled 8-1/2" hole from 6806' to 6866'. Fluid loss 5.1 cc.; filter cake 1.0 mm.	53#	35;
4/6	Drilled 8-1/2" hole from 6866' to 6924'. Fluid loss 5.8 cc.; filter cake 1.25 mm.	61.5#	37;
4/7	Drilled 8-1/2" hole from 6924' to 6990'. Fluid loss 5.2 cc.; filter cake 1.0 mm.	62.5#	34;
4/8	Drilled 8-1/2" hole from 6990' to 7067'. Fluid loss 5.5 cc.; filter cake 1.0 mm.	61.5#	37;
4/9	Drilled 8-1/2" hole from 7067' to 7142'. Fluid loss 5.8 cc.; filter cake 1.0 mm.	60#	36;
4/10	Drilled 8-1/2" hole from 7142' to 7232'. Fluid loss 5.9 cc.; filter cake 1.0 mm.	60.5#	35;
4/11	Drilled 8-1/2" hole from 7232' to 7332'. Fluid loss 5.9 cc.; filter cake 1.0 mm.	60.5#	33;
4/12	Drilled 8-1/2" hole from 7332' to 7375'. Fluid loss 6.0 cc.; filter cake 1.25 mm.	60#	40;
4/13	Drilled 8-1/2" hole from 7375' to 7461'. Fluid loss 5.8 cc.; filter cake 1.0 mm.	76#	35;
4/14	Drilled 8-1/2" hole from 7461' to 7528'. Fluid loss 5.6 cc.; filter cake 1.25 mm.	78#	50;
4/15	Drilled 8-1/2" hole from 7528' to 7591'. Fluid loss 5.4 cc.; filter cake 1.25 mm.	82#	55;
4/16	Drilled 8-1/2" hole from 7591' to 7604'. Fluid loss 5.5 cc.; filter cake 1.25 mm.	76#	50

SUBMIT IN DUPLICATE  
 STATE OF CALIFORNIA  
 DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

History of Oil or Gas Well

AUG 1 - 1943

OPERATOR THE NATURAL ASSOCIATED OIL COMPANY FIELD ALISO CANTON  
 Well No. 11422-D-35801 0-12, Sec. 29, T. 3 N, R. 16 W, S. D. B. & M.

Signed J. C. Foster

Date August 3, 1943 Title Agent  
 (President, Secretary or Agent)

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

Date	Description
<u>1943</u>	
<u>4/17</u>	Drilled 8-1/2" hole from 7624' to 7766'. Mud 77#; viscosity 39; fluid loss 5.2 cc.; filter cake 1.25 mm.
<u>4/18</u>	Drilled 8-1/2" hole from 7766' to 7836'. Mud 77#; viscosity 48; fluid loss 4.9 cc.; filter cake 1.25 mm.
<u>4/19</u>	Drilled 8-1/2" hole from 7836' to 7924'. Mud 78#; viscosity 42; fluid loss 3.6 cc.; filter cake 1.0 mm.
<u>4/20</u>	Drilled 8-1/2" hole from 7924' to 8073'. Mud 80#; viscosity 45; fluid loss 4.3 cc.; filter cake 1.0 mm.
<u>4/21</u>	Drilled 8-1/2" hole from 8073' to 8173'. Mud 80#; viscosity 50; fluid loss 4.5 cc.; filter cake 1.0 mm.
<u>4/22</u>	Drilled 8-1/2" hole from 8173' to 8264'. Mud 81#; viscosity 50; fluid loss 4.3 cc.; filter cake 1.0 mm.
<u>4/23</u>	Drilled 8-1/2" hole from 8264' to 8311'. Mud 81#; viscosity 50; fluid loss 4.0 cc.; filter cake 1.0 mm.
<u>4/24</u>	Drilled 8-1/2" hole from 8311' to 8352'. Mud 81#; viscosity 55; fluid loss 3.7 cc.; filter cake 1.0 mm.
<u>4/25</u>	Drilled 8-1/2" hole from 8352' to 8399'. Mud 81#; viscosity 57; fluid loss 4.1 cc.; filter cake 1.0 mm.
<u>4/26</u>	Drilled 8-1/2" hole from 8399' to 8442'. Mud 81#; viscosity 35; fluid loss 3.3 cc.; filter cake 1.0 mm.
<u>4/27</u>	Drilled 8-1/2" hole from 8442' to 8450'. Ran Schlumberger electric log which stopped at 8330'. Cleaned out to 8450'.
<u>4/28</u>	Ran Schlumberger electric log to 8450'. Cored 6" hole from 8450' to 8461'. Mud 81#; viscosity 33; fluid loss 3.9 cc.; filter cake 1.0 mm.
<u>4/29</u>	Cored 6" hole from 8461' to 8484'. Mud 81#; viscosity 33; fluid loss 3.7 cc.; filter cake 0.75 mm.
<u>4/30</u>	Cored 6" hole from 8484' to 8503'. Opened 6" hole to 8-1/2" from 8450' to 8486'. Mud 82#; viscosity 32; fluid loss 3.5 cc.; filter cake 0.75 mm.

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR FIDIS WATER ASSOCIATED OIL COMPANY FIELD ALISO CANTON  
 Well No. STANDARD-THEFON 91-12, Sec 29<sup>th</sup>, T. 3 N, R. 16 W, S. B. & M.  
 Signed J. C. Foster  
 Date August 3, 1948 Title Agent  
(President, Secretary or Agent)

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

Date	Description
5/1	Opened 6" hole to 8-1/2" from 6466' to 6503' and drilled 8-1/2" hole to 6563'. Mud 81.5#; viscosity 30; fluid loss 3.5 cc.; filter cake 0.75 mm.
5/2	Drilled 8-1/2" hole from 6563' to 6609'. Mud 82.5#; viscosity 30; fluid loss 3.7 cc.; filter cake 0.75 mm.
5/3	Drilled 8-1/2" hole from 6609' to 6655'. Mud 83#; viscosity 37; fluid loss 3.4 cc.; filter cake 0.75 mm.
5/4	Drilled 8-1/2" hole from 6655' to 6700'. Mud 82#; viscosity 40; fluid loss 3.6 cc.; filter cake 0.75 mm.
5/5	Drilled 8-1/2" hole from 6700' to 6744'. Mud 82#; viscosity 30; fluid loss 3.5 cc.; filter cake 0.75 mm.
5/6	Drilled 8-1/2" hole from 6744' to 6795'. Mud 82#; viscosity 32; fluid loss 4.0 cc.; filter cake 1.0 mm.
5/7	Drilled 8-1/2" hole from 6795' to 6820'. Ran Schlumberger electric log at 6820'. Cored 6" hole from 6820' to 6832'.
5/8	Cored 6" hole from 6832' to 6840'. Took 13MCC side wall samples at 7735'; 7660'; 7480'; 6825'; 6415'; and 6395'. Mud 82#; viscosity 33; fluid loss 4.0 cc.; filter cake 1.0 mm.
5/9	Cored 6" hole from 6840' to 6851'. Mud 82#; viscosity 32; fluid loss 3.9 cc.; filter cake 0.75 mm.
5/10	Cored 6" hole from 6851' to 6895'. Mud 82#; viscosity 33; fluid loss 3.6 cc.; filter cake 0.75 mm.
5/11	Cored 6" hole from 6895' to 6944'. Mud 82#; viscosity 31; fluid loss 3.9 cc.; filter cake 0.75 mm.
5/12	Cored 6" hole from 6944' to 6981'. Mud 82#; viscosity 36; fluid loss 3.7 cc.; filter cake 0.75 mm.
5/13	Cored 6" hole from 6981' to 9004'. Ran Schlumberger electric log at 9004'. Beamed 8-1/2" hole from 4830' to 4855'. Mud 82#; viscosity 33; fluid loss 3.0 cc.; filter cake 0.75 mm.
5/14	Opened 6" hole to 8-1/2" from 6820' to 6835'. Beamed 8-1/2" hole from 4855' to 5330'. Mud 82.5#; viscosity 36; fluid loss 4.1 cc.; filter cake 0.75 mm.

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Aug 1 1945

OPERATOR TINE MATH ASSOCIATED OIL COMPANY FIELD ALISO CANTON

Well No. STANDARD ENERGY PL-12, Sec 29, T. 3 N, R. 16 W, S. E. B. & M.

Signed J. C. Foster

Date August 1, 1945 Title Agent  
 (President, Secretary or Agent)

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

- | Date        |  |
|-------------|--|
| <u>5/15</u> | Raised 3-1/2" hole from 5330' to 5916'. Mud 22.5¢; viscosity 36; fluid loss 3.5 cc.; filter cake 0.75 mm.  |
| <u>5/16</u> | Raised 3-1/2" hole from 5916' to 6890'. Mud 51¢; viscosity 36; fluid loss 3.5 cc.; filter cake 0.75 mm.  |
| <u>5/17</u> | Raised 3-1/2" hole from 6890' to 7870'. Re-raised from 7520' to 7870'. Mud 50¢; viscosity 42; fluid loss 4.0 cc.; filter cake 0.75 mm.   |
| <u>5/18</u> | Raised 3-1/2" hole from 7870' to 8135'. Strung 10 lines. Mud 51¢; viscosity 39; fluid loss 3.8 cc.; filter cake 0.75 mm.   |
| <u>5/19</u> | Raised 3-1/2" hole from 8135' to 8875'. Mixed and conditioned mud preparatory to running casing. Mud 51¢; viscosity 31; fluid loss 3.4 cc.; filter cake 0.75 mm.   |
| <u>5/20</u> | Ran and cemented 7" Youngstown Specific casing at 8875' with 500 sacks Colton Hi-temperature cement. Bottom 1832.3' is 29¢ N-80; then 1807.4' is 26¢ N-80; then 1897.7' is 23¢ N-80; and balance 23¢ J-55. Had no circulation while mixing and displacing cement until last 100 sacks were being displaced around shoe when partial returns were obtained. Pressure increased from 2400¢ to 2800¢ when plugs dumped. Time 7:30 P.M.  |
| <u>5/21</u> | Landed 7" casing.  |
| <u>5/22</u> | Changed back to 8 lines. Laid down 4-1/2" drill pipe.  |
| <u>5/23</u> | Installed collar connections and tested with 1500¢ pressure. Made up 2-7/8" drill pipe.  |
| <u>5/24</u> | Located top of hard cement at 8754' and cleaned out to 8825'. Ran Combination Johnston tester and gun and 2-7/8" drill pipe with 1000' of water cushion and shot four 1/2" holes at 8800'. Set packer at 8755' and opened tester at 2:40 P.M. Had strong blow which died suddenly after being open 10 minutes. Pulled packer loose at 3:55 P.M. after being open 1 hour 15 minutes, and recovered 10 stands of new fluid. Top stand very viscous drilling mud which plugged trip valve. Remaining 9 stands thin oily drilling mud with no free water. Could not filter water sample from mud for salinity test. Pressure bomb chart indicated tester plugged after being open 10 minutes. Test inconclusive. |

DIVISION OF OIL AND GAS

History of Oil or Gas Well

AUG 5 - 1948  
 2 V 12  
 1000 1000

OPERATOR TIDE WATER ASSOCIATED OIL COMPANY FIELD ALISO CANTON

Well No. MIAMI-RESERVOIR #1-12, Sec. 29, T. 3 N, R. 16 W, S.E. B. & M.

Signed J. C. Foster

Date August 7, 1948

Title Agent  
 (President, Secretary or Agent)

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

Date  
1/25

5/25

Run Johnston tester on 2-7/8" drill pipe with 1000' of water cushion and set packer at 8755'. Dropped bar at 10:30 A.M. to open trip valve, but did not open. Dropped two additional bars without success in opening trip valve. Closed tester and foam one stand of drilling mud above trip valve. Re-ran tester and set packer at 8755' with 1000' of water cushion. Opened trip valve at 5:30 P.M. Had fair steady blow for 15 minutes, then fairly strong blow with gas to surface in 27 minutes. Had heading blow after 35 minutes. Packed packer loose at 7:30 P.M. after being open 2 hours. Recovered 63 stands of new fluid, (23 Bbls.). Top 2 stands oily drilling mud; then 57 stands of clean looking gas/oil most of which blew out of drill pipe while pulling tester. Bottom 4 stands drilling mud and oil in equal proportions. No free water in evidence. Salinity of water filtered from mud 1 stand above tester tested 50 g/g. Test of water shut off witnessed and approved by Division of Oil and Gas.

5/26

Cleaned out cement from 8825' to 8835'. Circulated and cleaned out cuttings from 8835' to 9004'. Conditioning mud to make production test.

5/27

Run Johnston tester on 2-7/8" drill pipe with 1000' of water cushion and set packer at 8755' with perforated 3-1/2" tail pipe to 8945'. Opened tester at 3:00 P.M. Had fair to strong blow with fluid to surface at 4:30 P.M. Well flowed water cushion and mud, then started flowing oil at 5:10 P.M. Started gauging at 5:30 P.M. and from 5:30 P.M. until 7:30 A.M. 5/28/48 well flowed 230 barrels gross fluid; 223 barrels approximately net oil; average cut 3.0%; 19.5° gravity.

Detail of cut as follows:

	0% water	5% mud and sand
5:30 P.M.	0%	10%
6:30 P.M.	0%	" " "
7:30 P.M.	3.2%	0.8%
8:30 P.M.	3.2%	0.8%
9:30 P.M.	2.8%	0.4%
10:30 P.M.	3.1%	0.4%
11:30 P.M.	--	--
12:30 A.M.	2.4%	0.4%
1:30 A.M.	2.0%	0.5%

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Aug 3 1948

OPERATOR FIELD WATER ASSOCIATED OIL COMPANY FIELD ALISO CANYON

Well No. STANDARD-BENTON #L-22, Sec. 229, T. 3 N, R. 16 W, S.B. B. & M.

Signed J. C. Foster  
 A

Date August 3, 1948

Title Agent

(President, Secretary or Agent)

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

Date 1948 Date (Cont'd)

2:30 A.M.	2.6%	water	0.7%	mud and sand
3:30 A.M.	2.4%	"	0.6%	" " "
4:30 A.M.	2.3%	"	0.5%	" " "
5:30 A.M.	3.0%	"	1.0%	" " "
6:30 A.M.	1.0%	"	0.5%	" " "
7:30 A.M.	1.5%	"	0.5%	" " "

5/23 Failed Johnston tester 12220 at 8:15 A.M. after being open 18 hours and 15 minutes. Reached 6" hole from 8835' to 8890'.

5/29 Reached 6" hole from 8890' to 9004'. Ran 196' of 5" liner including 164' of perforated and landed at 9000'. Perforations are 80 Mesh with 12 rows, 6" centers, 3" slots with 6" undercut. By Pacific.

5/30 Ran 2-1/2", 6.5# J-55 T upset tubing including bottom 306' of 2", 4.7# upset tubing and hung at 8915'. Installed Xmas Tree.

5/31 Circulated out mud with oil and started swabbing at 10:00 p.m.

6/1 Swabbed and flowed by hand 285 barrels gross fluid in 24 hours; 2.0% cut; 19.9° gravity. Well has been flowing without swabbing since 4:00 P.M. From 4:00 P.M. to 8:00 A.M. 6/2/48 well flowed 97 barrels gross fluid; 95 barrels approximate net oil; 2.0% cut.

	Gross Fluid	Approx. Net Oil	Out	Gravity	Flow	Tubing Pressure	Casing Pressure	Gas NGZ	Hours On
6/2	367	363	1.4%	20.2°	48/64	0#	0#	110	24
6/3	341	334	2.0%	20.2°	48/64	--	--	110	24
6/4	316	316	0.8%	20.1°	48/64	--	--	110	24
6/5	313	313	0.8%	20.0°	48/64	--	--	110	24
6/6	314	314	0.2%	20.1°	48/64	--	--	110	24
6/7	309	301	2.6%	19.7°	48/64	0#	125#	110	24
6/8	313	313	1.3%	20.1°	48/64	0#	350#	110	24
6/9	278	249	4.0%	20.8°	48/64	0#	500#	110	20
6/10	264	256	3.0%	20.1°	48/64	0#	500#	110	24

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR TINE WATER ASSOCIATED OIL COMPANY FIELD ALISO CANYON

Well No. STAND. RE. SECTION 02-12, Sec. 29, T. 3 N, R. 16 W, S. 1, B. & M.

Signed J. C. Foster

Date August 1, 1948 Title Agent

(President, Secretary or Agent)

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

Date	Grain Class	Approx. Wet Oil	Sp. Gr.	Grav. Wt.	Perm.	Tubing Pressure	Casing Pressure	Gas MCF	Hours On
6/11	284	274	1.5%	20.4°	46/64	0#	550#	110	24
6/12	303	299	2.5%	20.7°	48/64	0#	500#	110	24
6/13	309	306	1.0%	20.7°	48/64	0#	650#	110	24
6/14	302	301	0.1%	20.7°	48/64	0#	750#	110	24
6/15	296	290	2.0%	20.7°	48/64	0#	900#	110	24
6/16	282	280	0.8%	20.7°	48/64	0#	1150#	122	24
6/17	272	269	0.8%	20.7°	48/64	0#	1250#	129	24
6/18	255	263	0.3%	20.7°	32/64	50#	1380#	102	24
6/19	304	302	0.3%	20.7°	32/64	50#	1400#	118	24
6/20	209	203	0.3%	20.7°	32/64	50#	1350#	87	24
6/21	259	253	0.3%	20.7°	24/64	50#	1300#	103	24
6/22	259	260	2.0%	20.7°	24/64	100#	1350#	125	24
6/23	256	251	2.0%	20.7°	24/64	100#	1350#	124	24
6/24	264	259	2.0%	20.7°	24/64	125#	1450#	128	24
6/25	165	162	2.0%	20.7°	24/64	600#	1500#	76	24
6/26	168	165	2.0%	20.7°	16/64	350#	1725#	90	24
6/27	189	185	2.0%	20.7°	16/64	350#	1675#	83	24
6/28	68	67	2.0%	20.7°	16/64	400#	1900#	16	8
6/29	Shot	In	---	---	---	---	---	---	---
6/30	Shot	In	---	---	---	1500#	2200#	---	0
7/1	Shot	In	---	---	---	900#	2225#	---	0
7/2	Shot	In	---	---	---	900#	2200#	---	0
7/3	Shot	In	---	---	---	900#	2200#	---	0
7/4	Shot	In	---	---	---	900#	2200#	---	0
7/5	154	151	2.0%	20.7°	14/64	525#	2025#	69	16
7/6	174	171	2.0%	20.7°	14/64	300#	1850#	70	24
7/7	163	160	2.0%	20.7°	14/64	300#	1900#	66	24
7/8	163	160	2.0%	20.7°	14/64	300#	1900#	65	24
7/9	162	159	2.0%	20.7°	14/64	300#	2000#	65	24
7/10	173	170	2.0%	20.7°	14/64	300#	2000#	114	24
7/11	146	143	2.0%	20.7°	14/64	300#	1900#	54	24
7/12	161	158	2.0%	20.7°	14/64	250#	1900#	60	24
7/13	158	155	2.0%	20.7°	14/64	260#	1920#	65	24

SUBMIT IN DUPLICATE  
STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Aug 11 1948

History of Oil or Gas Well

OPERATOR THE WATER ASSOCIATED OIL COMPANY FIELD ALISO CANYON

Well No. STANDARD-SESSION #1-12, Sec. 29, T. 3 N, R. 16 W, S. E. B. & M.

Signed J. C. Foster

Date August 3, 1948

Title AGENT

(President, Secretary or Agent)

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

Date  
1948

CASING RECORD

20" C 42'  
13-3/8" 54.5# C 790'  
9-5/8" 40# C 4830'  
7" 29# 26# 23# C 3835'  
196' - 5" 18# inc. 164' Perf. 1. 9000'. Top 5304'.

TUBING RECORD

1-1/2" inc. bottom 306' of 2" H 3915'.

MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS WELL

RECEIVED  
 AUG 5 - 1940

Operator TRIP WALK ASSOCIATED OIL COMPANY Field ALISO CANYON  
 Well No. STANDARD OIL NO. 11-12 Sec. 29, T. 3 S, R. 16 W, S. B. & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
0	1521'		Drilled		Sand and shale
1521'	1701'		"		Shale
1701'	2165'		"		Sand and shale
2165'	2184'		"		Shale
2184'	4226'		"		Sand and shale
4226'	4530'		"		Sand
4530'	6715'		"		Sand and shale
6715'	6725'		"		Shale
6725'	7370'		"		Sand and shale
7370'	7375'		"		Hard sand
7375'	7430'		"		Sand and shale
7430'	7461'		"		Hard sand
7461'	8450'		"		Sand and shale
8450'	8489'		Cored		Conglomerate
8489'	8503'		"		Siltstone and shale sand
8503'	8608'		Drilled		Sand and shale
8608'	8708'		"		Shale
8708'	8728'		"		Sand and shale
8728'	8744'		"		Shale
8744'	8820'		"		Sand and shale
8820'	8840'		Cored		Siltstone
8840'	8861'		"		Oil sand and siltstone
8861'	8871'		"		Oil sand
8871'	8895'		"		Siltstone and silty oil sand
8895'	8917'		"		Siltstone
8917'	8944'		"		Oil sand
8944'	8947'		"		Oil sand and siltstone
8947'	8948'		"		Siltstone
8948'	8948'		"		Gray sand
8948'	8964'		"		Siltstone and silty oil sand
8964'	8984'		"		Siltstone and oil sand

MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121
					M

DIVISION OF OIL AND GAS

AUG 11 1948

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator ELI WATER ASSOCIATED OIL COMPANY Field ALISO CANYON

Well No. STANDARD SENON #1-12 Sec. 29, T. 3 N, R. 16 W, S.E. B. & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
6" REED CONVENTIONAL CORES					
8450'	8457'			3' 0"	Gray and green siliceous shale conglomerate with chert pebbles to 1" in diameter.
8457'	8465'			3' 0"	3' 0" Green and gray shale and fine fine brown sand conglomerate with rounded chert pebbles to 1/2". No cut or odor.
					3' 0" Medium fine sand with shale and chert pebbles to 1/2".
					2' 0" Hard gray shale with few chert pebbles.
8465'	8472'			5' 0"	1' 0" Brown sand conglomerate with pieces gray siltstone pebbles to 1 1/2" with several rounded quartzite pebbles to 1" in diameter.
					2' 0" Hard shale conglomerate with pieces gray siltstone and quartzite pebbles to 1 1/2" in diameter.
					2' 0" Hard siliceous shale conglomerate with brown chert pebbles to 1" in diameter.
8472'	8481'			No Recovery	
8481'	8489'			6' 0"	1-1/2' Gray sandy siltstone.
					2' 6" Gray sandy siltstone conglomerate with chert and siltstone fragments 1".
					1' 0" Gray shale.
					1' 0" Fossiliferous limestone.
8489'	8503'			6' 0"	0' 6" Dark gray limestone.
					0' 6" Hard gray siltstone shell.
					1' 0" Gray shale.
					4' 0" Gray brown soft shaly sand no color or odor.

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

AUG 1 1948

LOG AND CORE RECORD OF OIL OR GAS WELL

THE WATER ASSOCIATED OIL COMPANY

ALISO CANYON

Operator \_\_\_\_\_ Field \_\_\_\_\_

Well No. STANDARD-SHONON #1-12 Sec. 29, T. 3 S, R. 16 W, S.E. B. & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
5" NEED CONVENTIONAL CORES			(CONT'D)		
8820'	8840'			12' 0"	Firm, very hard, dark gray and oil stained sandy siltstone. No to good cut and odor. Bottom 4' 6" almost a shell. Fair 30 - 35° dips.
8840'	8847'			10' 0"	7' 0" Hard, dark, gray, sandy siltstone. No cut or odor. Fair 30 - 35° dips. 0' 6" Hard, gray, sandy siltstone partially oil stained. Slight to fair cut and odor. 0' 6" Firm, silty oil sand. Fair cut and odor. Looks undersaturated probably due to siltiness. 2' 0" Firm, medium grained oil sand, good cut fair to good odor.
8847'	8861'			9' 0"	4' 0" Soft, medium to coarse grained poorly sorted oil sand. Good cut and odor. 0' 8" Hard, coarse sandstone shell. 4' 4" Firm, very fine silty oil sand. Good cut and odor.
8861'	8881'			4' 0"	0' 6" Firm, fine, medium grained oil sand. Good cut, burned odor. 3' 6" Firm, fine silty oil sand. Good cut, fair odor. Looks undersaturated.
8881'	8894'			9' 0"	Hard, dark gray and oil stained sandy siltstone. No to good cut and odor.
8894'	8914'			14' 0"	3' 6" Hard, dark gray sandy siltstone. 10' 0" Firm, fine to coarse poorly sorted oil sand with few pebbles to 1/2" in diameter. Good cut and odor. 0' 6" Hard, oil stained sandy siltstone. No to fair cut and odor.

AUG 5 - 1948

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. STANDARD-SESSION #1-12 Sec. 29 ~~27~~, T. 3 N., R. 16 W., S., E., & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
<u>Cores (Cont'd)</u>					
<u>6" HUNLAP WIRE LINE CORES</u>					
8914'	8924'			3' 0"	Firm, gray and oil saturated sandy siltstone. No to good cut, fair odor.
8924'	8934'			0' 6"	Firm, fine to silty oil sand. Good cut, fair odor.
8934'	8944'			9' 0"	Hard, fine, gray, sandy siltstone. No cut or odor.
<u>6" REED CONVENTIONAL CORES</u>					
8944'	8964'			4' 0"	3' 0" Hard, dark gray, and oil stained sandy siltstone. No to fair cut and odor. 1' 0" Soft, fine grained gray sand.
8964'	8984'			11' 0"	Firm, fine to silty oil sand or fine sandy siltstone, Fair to good cut and odor.
8984'	9004'			17' 0"	11' 0" Hard, fine to silty oil saturated siltstone. Fair to good cut and odor. 1' 0" Firm, medium to coarse grained oil sand. Good cut and odor. Looks tarry. 5' 0" Hard, fine to silty oil saturated siltstone. Fair to good cut and odor.
<u>BONCO Side Wall Samples</u>					
7735'				0' 3"	Firm, poorly sorted conglomerate gray sand with some oil staining which might be caused by drilling fluid.
7660'				0' 3"	Firm, generally coarse gray and oil stained sand. Good cut, slight odor.
7480'				0' 4"	Firm, medium to coarse gray and oil stained sand. Slight cut, no odor.
6825'				0' 2"	Firm, medium to coarse gray and oil stained sand, as above.
6415'				0' 4"	Firm, medium grained gray sand. No cut or odor.
6395'				0' 5"	Gray sand as above.

MAP  
MAP  
BOND  
CARDS  
FORMS  
114  
121

## DIVISION OF OIL AND GAS

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

No. T1-48272

Los Angeles 15, Calif. June 9, 19 48

Mr. F. C. Foster  
Los Nietos, Calif.

Agent for TIDE WATER ASSOCIATED OIL COMPANY

DEAR SIR: "Standard-Sesnon 1"

Your well No. 12, Sec. 29, T. 3 N., R. 16 W., S. B. B & M.  
Aliso Canyon Field, in Los Angeles County, was tested for water shut-off  
on May 25, 19 48. Mr. Paul Betts, Inspector, designated by the supervisor,  
was present as prescribed in Secs. 3222 and 3223, Ch. 93, Stat. 1939; there were also present

W. E. Perkes, Engineer; J. L. Wolverton, Driller

Shut-off data: 7 in. 23, 26, 40 lb. casing was cemented at 8835 ft.  
on May 20, 1948 in 8-5/8 in. hole with 500 sacks of cement  
of which 9 sacks was left in casing.Casing record of well: 13-3/8" cem. 790'; 9-5/8" cem. 4830'; 7" cem. 8835'; 4, 1/2" test  
holes at 8800', W.S.O.

Present depth 9004 ft. Bridged with cement from 8835 ft. to 8825 ft. Cleaned out to 8825 ft. for test. A pressure of 1500 lb. was applied to the inside of casing for 10 min. without loss after cleaning out to 8784 ft. A Johnston tester was run into the hole on 2-7/8 in. drill pipe-tubing, with 1000 ft. of water-mud cushion, and packer set at 8755 ft. with tailpiece to 8775 ft. Tester valve, with 3/8" in. bean, was opened at 5:30 p.m. and remained open for 2 hr. and xxx min. During this interval there was a fair, steady blow for 35 minutes, and a fair, heading blow for the balance of the test. (Gas to the surface in 27 minutes.)

INSPECTOR J. L. WHITE VISITED THE WELL FROM 6:30 P.M. - 7:30 P.M. ON MAY 24, 1948, AND MR. PERKES REPORTED THE FOLLOWING:

1. A 12-1/4" rotary hole was drilled from 790' to 4830'.
2. On March 14, 1948, 9-5/8" 40 lb. casing was cemented at 4830' with 500 sacks of cement.
3. An 8-5/8" rotary hole was drilled from 4830' to 8835', and a 6" rotary hole from 8835' to 9004'.
4. Electrical core readings showed the top of Sesnon sand at 8837'.
5. Cement was drilled out of the 7" casing from 8784' to 8825', equivalent to 8 sacks, and the casing was cleaned out to 8825'.
6. The 7" casing was shot-perforated with 4, 1/2" holes at 8800', using a Johnston gun and tester, on 2-7/8" drill pipe with 1000' of water cushion and the packer was set at 8755'.
7. The tester valve was opened at 2:40 p.m. and remained open for 1 hour and 15 minutes. During this interval there was a strong blow for 10 minutes and no blow thereafter.

THE INSPECTOR NOTED THE FOLLOWING:

1. When the drill pipe was removed, 910' of gassy oily drilling fluid was found in the drill pipe above the tester, equivalent to 3.5 bbl.
2. The test was a misrun as the tool plugged.

INSPECTOR PAUL BETTS ARRIVED AT THE WELL AT 9:45 P.M. ON MAY 25, 1948, AND MR. PERKES REPORTED that the hole was circulated clean to 8825'.

THE INSPECTOR NOTED THE FOLLOWING:

1. When the drill pipe was removed, a net rise of 180' of medium drilling fluid, 5735' of gassy, heavy, clean oil, 360' of gassy, heavy oil and medium drilling fluid was found in the drill pipe above the tester, equivalent to 22 bbl. (There was no evidence of free water in the column of fluid.)

R. D. BUSH, State Oil and Gas Supervisor

(CONTINUED ON PAGE 2)

By \_\_\_\_\_, Deputy

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS  
RECEIVED

MAR 9 - 1948

LOS ANGELES, CALIFORNIA

Supplementary Notice

Los Nietos, Calif. March 8 1948

DIVISION OF OIL AND GAS

Los Angeles, Calif.

Our notice to you dated February 13, 1948, stating our intention to

drill well No. Standard-Sesnon #1-12

(Drill, deepen, redrill, abandon)

Sec. <sup>29</sup>~~28~~, T. 3 N, R. 16 W, S.B.B. & M. Aliso Canyon Field,

Los Angeles County, must be amended on account of changed or recently

discovered conditions.

The new conditions are as follows:

1. Circulation is being lost at approximately 1600 - 1800' and efforts to prevent loss of circulation have been only partially successful.

We now propose

1. To cement 9-5/8" casing at approximately 4300' with 500 sacks slow cement.

*supp notice*

MAP	MAP BOOK	CARDS	BOND	FORMS	
				114	121

TIDE WATER ASSOCIATED OIL COMPANY

(Name of Operator)

By *J. C. Foster*  
Agent

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 1-47867

Mr. F. C. Foster  
Los Nietos Calif.  
Agent for TIDE WATER ASSOCIATED OIL COMPANY

Los Angeles 15, Calif. March 3, 1948

DEAR SIR: "Standard- 29  
Operations at your well No. ~~Season~~ 1<sup>n</sup> 12 Sec. ~~28~~, T. 3 N., R. 16 W., S. B. B. & M.,  
Aliso Canyon Field, in Los Angeles County, were witnessed by  
N. N. Sampson, Inspector, representative of the supervisor,  
on March 1, 1948. There was also present Dick Ruberts, Drilling Foreman;  
T. R. Tunnell, Driller.  
Casing Record 13-3/8" cem. 790'. T. D. 4800'. Junk xxx

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

- The inspector arrived at the well at 3:00 p.m. and Mr. Ruberts reported:
1. A 17-1/2" rotary hole was drilled from the surface to 790'.
  2. On February 12, 1948, 13-3/8", 54.5 lb. casing was cemented at 790' with 500 sacks of cement.
  3. An 11" rotary hole was drilled from 790' to 4800'.

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

1. A Shaffer double cellar control gate for closing in the well with the drill pipe out of the hole and for closing around the 4-1/2" drill pipe.
2. The controls for the above equipment were located outside the derrick.
3. A 2" mud fill-up line with a 2" high pressure stopcock into the 13-3/8" casing below the above equipment.
4. A Hosmer type blowout preventer with packer to fit the 4-1/2" drill pipe.

The inspection was completed at 3:20 p.m.

THE BLOWOUT PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

NNS:OH

B/S

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

R. D. BUSH

State Oil and Gas Supervisor

By E. H. Messer Deputy

STATE OF CALIFORNIA  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P. 1-44555

Los Angeles 15, Calif. February 19, 19 48

MR. F. C. Foster

Los Nietos, Calif.

Agent for TIDE WATER ASSOCIATED OIL COMPANY

DEAR SIR:

"Standard-Sesson 1"

Your proposal to drill Well No. 12

Section 29, T.3 N., R.16 W., S.B. B. & M., Aliso Canyon Field, Los Angeles County,

dated Feb. 13, 19 48, received Feb. 16, 19 48, 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 2841.46 feet S. and 7884.18 feet W. from Station #84

Elevation of ground above sea level 2276.15 feet

All depth measurements taken from top of Derrick Floor, which is 9 feet above ground.

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

PROPOSAL:

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

indicated: Size of Casing	Weight	Grade and Type	Depth	Landed or Cemented
13-3/8"	54.5#	T & C; J-55	800'	Cemented
7"	23#, 26#, 29#	J-55, N-80 Speedtite	8950'	Cemented
5"	17.93#	J-55, insert	9150'	Landed

Well is to be drilled with rotary tools.

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

DECISION:

THE PROPOSAL IS APPROVED PROVIDED THAT

1. Mud fluid consistent with good drilling practice shall be used and the column of mud fluid maintained at all times to the surface, particularly while pulling the drill pipe.
2. Blowout prevention equipment, sufficient to provide a complete close-in of the well under pressure at any time, shall be installed.
3. Any hole to be sidetracked in any oil or gas zone shall be filled with cement, if possible.
4. THIS DIVISION SHALL BE NOTIFIED AS FOLLOWS:
  - (a) To inspect the installed blowout prevention equipment before drilling below 1500'.
  - (b) To witness a test of the effectiveness of the 7" shut-off.

ABH:OH

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

R. D. BUSH

State Oil and Gas Supervisor

By E. H. Messer Deputy

