

State of California • Natural Resources Agency
Department of Conservation
Division of Oil, Gas, and Geothermal Resources
801 K Street • MS 18-05
Sacramento, CA 95814
(916) 445-9686 • FAX (916) 319-9533

Edmund G. Brown Jr., Governor
Kenneth A. Harris Jr., State Oil and Gas Supervisor

January 3, 2017

SENT VIA EMAIL

Mr. Rodger Schwecke
Vice President
Transmission and Storage
Southern California Gas Company
RSchwecke@semprautilities.com

FINDING THAT WELL SESNON FEE 4 (API NO. 03700650) HAS PASSED THE FIRST BATTERY OF TESTS AND WAS TAKEN OUT OF SERVICE AND ISOLATED FROM THE UNDERGROUND GAS STORAGE RESERVOIR

Dear Mr. Schwecke:

I am writing regarding the safety review results of one of the 114 wells at the Aliso Canyon gas storage facility (Facility). Each of the wells are subject to the comprehensive safety review that State Oil and Gas Supervisor Order 1109 and SB 380¹ require to be completed before the Division of Oil, Gas, and Geothermal Resources (Division) may authorize resumption of injection operations at the Facility. Order 1109 describes two batteries of well tests. To complete the review, each well must (1) pass both batteries of tests, (2) pass the first battery of tests and be taken out of service and isolated from the underground gas storage reservoir, or (3) be properly plugged and abandoned.

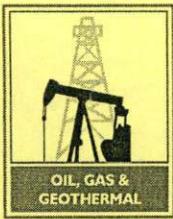
The first battery of tests assesses the casing using temperature and noise logs to ensure that there is no migration of fluids near the wellbore. If a well passes those tests, it may (1) undergo the second battery of tests for potential approval to use for injection if and when injections may resume, or (2) be taken out of service and isolated from the underground gas storage reservoir as specified in Steps 4b through 7b of the Safety Review Testing Regime of Order 1109 (Testing Regime). The Division posts the current status and testing results for each of the 114 wells on its website at <http://www.conservation.ca.gov/dog/AlisoCanyon/Pages/Well-Detail.aspx>.

After receiving and evaluating all test results and other data concerning the well, I find for purposes of Order 1109 and SB 380, that well Sesnon Fee 4 (API No. 03700650) has completed the first battery of the Testing Regime and was taken out of service and, on August 24, 2016, the well was isolated from the underground gas storage reservoir as specified in Step 6b of the Testing Regime. Monitoring and testing of the well must continue as required by Order 1109 and any applicable law. If the well does not pass the second battery of tests within one year of being isolated from the reservoir, then the well must be plugged and abandoned in accordance with Public Resources Code section 3208.

Sincerely,

Kenneth A. Harris Jr.,
State Oil and Gas Supervisor

¹ Senate Bill 380 (Pavley, Chapter 14, Statutes of 2016) codified in part at Public Resources Code section 3217.



RAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
1000 S. Hill Rd, Suite 116 Ventura, CA 93003-4458
Phone:(805) 654-4761 Fax:(805) 654-4765

No. T 216-0357

REPORT ON OPERATIONS

GAS STORAGE PROJECT
"Sesnon-Frew" - Modelo (Miocene-Eocene) Formation

Amy Kitson
Southern California Gas Company (S4700)
12801 Tampa Ave., SC9382
Northridge, CA 91326

Ventura, California
August 23, 2016

Your operations at well "**Sesnon Fee**" 4, A.P.I. No. 037-00650, Sec. 32, T. 03N, R. 16W, SB B.&M., **Aliso Canyon** field, in **Los Angeles** County, were witnessed on 8/20/2016, by **Ernest Blevins**, a representative of the supervisor.

The operations were performed for the purpose of **determining casing integrity**.

DECISION:

APPROVED

EB/TKC

Kenneth A. Harris Jr.

State Oil and Gas Supervisor

By

pp. E.A. Abel

Patricia A. Abel, District Deputy

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

No. T
216-0357
16, I

PRESSURE BLOCK TEST

Operator So CA Gas Well Designation "Sesnon Fee" 4
Sec. 32, T. 3N, R. 16W B. & M. API No. 037-00650 Field Aliso Canyon
County Los Angeles Witnessed on 8-20-2016 Ernie Blevins, representative
Supervisor, was present from 1115 to 1500.
Also present were Darryl Luttrell - Consultant WSM
Casing record of the well 7" 29#

The operation were performed for the purpose of Plug & Suspend Zone Isolation

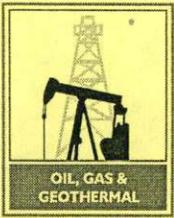
Pressure Test Casing & Tubing 2 7/8"
Top = Surface to Bottom 8735'

Packer at Retrievable Bridge Plug @ 8856' Well Type Gas
Casing Pressured With 8.5 HEC Polymer Volume _____
Casing Pressure Start (psi) 1130 psi Time ^{start} 11:55
Casing Pressure End (psi) 1121 Time ^{End} 12:55
Pressure Held 60 minutes. Total change in pressure -9 psi psi .8 = .881%
Test results Good No Good Inconclusive

Pressure Test Tubing

Plug-Back to _____ Well Type _____
Tubbing Pressured With _____ Volume _____
Tubbing Pressure Start (psi) _____ Start Time _____
Tubbg Pressure End (psi) _____ End Time _____
Pressure Held _____ minutes. Total drop in pressure _____ psi _____ %
Test results _____ Good _____ No Good _____ Inconclusive

Remarks _____



FEDERAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
1000 S. Hill Rd, Suite 116 Ventura, CA 93003-4458
Phone:(805) 654-4761 Fax:(805) 654-4765

No. T 216-0363

REPORT ON OPERATIONS

GAS STORAGE PROJECT
"Sesnon-Frew" - Modelo (Miocene-Eocene) Formation

Amy Kitson
Southern California Gas Company (S4700)
12801 Tampa Ave., SC9382
Northridge, CA 91326

Ventura, California
August 23, 2016

Your operations at well "**Sesnon Fee**" 4, A.P.I. No. **037-00650**, Sec. **32**, T. **03N**, R. **16W**, **SB B.&M.**, **Aliso Canyon** field, in **Los Angeles** County, were witnessed on **8/17/2016**, by **Hafiz Ali**, a representative of the supervisor.

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

DECISION:

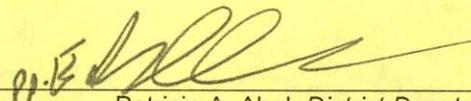
APPROVED

HAM/TKC

Kenneth A. Harris Jr.

State Oil and Gas Supervisor

By



Patricia A. Abel, District Deputy

EB822.

BLOWOUT PREVENTION EQUIPMENT MEMO

#12, 1

Operator Southern California Gas Company Well "Seson Fee" 4 Sec. 32 T. 3 N R. 16 W
 Field Aliso Canyon County Los Angeles Spud Date

VISITS: Date Engineer Time Operator's Rep. Title

1st 8/17/2016 Hafiz Ali Mohammed, (0800 to 0900)
 2nd (to)

Contractor Ensign Rig # 347 Contractor's Rep. & Title Carlos Navarro Rig Supervisor

Casing record of well: 13-3/8" cem 1403'; 7' cem 9079', WSO 8963'; 5' LD 8939' - 9362', WSO 8940' perfs @ int 9080' - 7297'. TD 9362'.
 logged w/cem 9362' - 9345'.

OPERATION: Testing (inspecting) the blowout prevention equipment and installation. Critical well? Y N
 DECISION: The blowout prevention equipment and its installation on the 5-1/2" casing are approved.

Proposed Well Opns: Plug and Suspend . MACP: psi
 Hole size: " fr. ' to ' , " to ' & " to ' **REQUIRED BOPE CLASS: III5M**

CASING RECORD OF BOPE ANCHOR STRING					Cement Details		Top of Cement	
Size	Weight(s)	Grade(s)	Shoe at	CP at			Casing	Annulus

BOP STACK							TEST DATA						
API Symb.	Ram Size (in.)	Manufacturer	Model or Type	Vert. Bore Size (in.)	Press. Rtg.	Date Last Overhaul	Gal. to Close	Recov. Time (Min.)	Calc. GPM Output	psi Drop to Close	Secs. to Close	Test Date	Test Press.
A	CSO	Hydril	GK	11	5M		19						
Rd	2-7/8	Shaffer	LXT	11	5M		3						
Rd	CSO	Shaffer	LXT	11	5M		3						

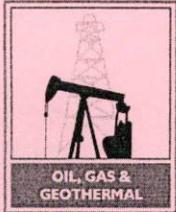
ACTUATING SYSTEM				TOTAL: 25		AUXILIARY EQUIPMENT						
Accumulator Unit(s) Working Pressure 3000 psi						Connections						
Total Rated Pump Output		gpm		Fluid Level		No.	Size (in.)	Rated Press.	Weld	Flange	Thread	Test Press.
Distance from Well Bore 25 ft.		ok										
Accum. Manufacturer		Capacity		Precharge		Fill-up Line						
1	Koomey	80gal.		1000psi		x	Kill Line					
2		gal.		psi		x	Control Valve(s)					

CONTROL STATIONS				AUXILIARY EQUIPMENT							
		Elec.	Hyd.	Pneu	x	Check Valve(s)					
x	Manifold at accumulator unit			x	Aux. Pump Connect.						
x	Remote at Driller's station			x	Choke Line						
	Other:			x	Control Valve(s)						

EMERG. BACKUP SYSTEM				AUXILIARY EQUIPMENT							
		Press.	Wkg.	x	Pressure Gauge						
N2 Cylinders	1	L= 55 "	2700	10 gal.	Adjustable Choke(s)						
Other:	2	L= 55 "	2800	11 gal.	Bleed Line						
	3	L= 55 "	2700	10 gal.	Upper Kelly Cock						
	4	L= 55 "	2700	10 gal.	Lower Kelly Cock						
	5	L= 55 "	2800	11 gal.	Standpipe Valve						
	6	L= 55 "	2800	11 gal.	Standpipe Press.						
TOTAL: 63 gal				x	Pipe Safety Valve						

HOLE FLUID MONITORING EQUIPMENT			Alarm Type		Class			Hole Fluid Type			Storage Pits (Type & Size)		
			Audible	Visual	A			HC polymer			8.5 480 bbl		
	Calibrated Mud Pit				B								
	Pit Level Indicator				C								

REMARKS AND DEFICIENCIES: NONE



URAL RESOURCES AGENCY OF CALIFOR
 DEPARTMENT OF CONSERVATION
 DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
 1000 S. Hill Rd, Suite 116 Ventura, CA 93003 - 4458

No. **P 216-0170**

PERMIT TO CONDUCT WELL OPERATIONS

Old	New
010	010
FIELD CODE	
00	00
AREA CODE	
30	30
POOL CODE	

Gas Storage
 Plugback and Suspend for One Year
 "Sesnon-Frew" - Modelo (Miocene-Eocene) Formation

Ventura, California
 August 12, 2016

Amy Kitson, Agent
 Southern California Gas Company (S4700)
 12801 Tampa Ave., SC9382
 Northridge, CA 91326

Your proposal to **Rework** well "**Sesnon Fee**" 4, A.P.I. No. **037-00650**, Section **32**, T. **03N**, R. **16W**, **SB B. & M.**, **Aliso Canyon** field, **Any** area, **Sesnon-Frew** pool, **Los Angeles** County, dated **8/11/2016**, received **8/11/2016** has been examined in conjunction with records filed in this office. (Lat: **34.307856** Long: **-118.571717** Datum:83)

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment, as defined by this Division's publication No. M07, shall be installed and maintained in operating condition and meet the following minimum requirements:
 - a. Class **III 5M** on the **7"** casing.
2. Hole fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
3. Blowout prevention practice drills are conducted at least weekly and recorded on the tour sheet. A practice drill may be required at the time of the test/inspection.
4. A pressure test is conducted to demonstrate the mechanical integrity of the **7"** casing.
5. This well is to be taken out of service and isolated from the storage reservoir. The well shall be re-evaluated or abandoned within 1 year of the completion of the pressure testing pursuant to Order #1109 and its amendments.
6. In all other respects, the provisions of Division Order #1109 and its amendments shall remain in effect.
7. This office shall be contacted by phone prior to making any program changes and no changes are made without Division approval.
8. **THIS DIVISION SHALL BE NOTIFIED TO:**
 - a. Witness a pressure test of the **7"** casing and bridge plug.

Continued on Next Page

Blanket Bond Dated: 7/6/1999
 UIC Project No. 0100006

Engineer Kris Gustafson
 Office (805) 654-4761

KG/kg

Kenneth A. Harris Jr.
 State Oil and Gas Supervisor

By 
 Patricia A. Abel, District Deputy

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

Well #: "Sesnon Fee" 4

API #: 037-00650

Permit : P 216-0170

Date: August 12, 2016

NOTE:

1. The base of the freshwater zone is at **800'±**.
2. No operation shall be undertaken or continued that will contaminate or otherwise damage the environment.
3. This permit is being issued as part of Division Order No. 1109 dated March 4, 2016. Any well that fails any of the testing must be taken out of service and isolated from the storage reservoir pursuant to the Safety Review Testing Regime.
4. The required History of Oil or Gas Well (OG103) shall include a complete description of the required pressure testing. **An updated casing and tubing diagram shall be included with the well history.**
5. **A Well Summary Report (Form OG 100)** and **Well History (Form OG 103)** shall to be submitted to the Division within 60 days after the well is drilled, reworked, plugged and abandoned, or if the work is suspended. Any additional well work will require an additional notice to be submitted to this office prior to resuming well operations.

Enclosure: Attachment 1 to DOGGR Order 1109. Safety Review Testing Regime for the Aliso Canyon Natural Gas Storage Facility

**ATTACHMENT 1
TO DOGGR ORDER 1109**

**SAFETY REVIEW TESTING REGIME
FOR THE ALISO CANYON NATURAL GAS STORAGE FACILITY**

This document identifies the requirements of this comprehensive safety review that shall be completed by the Southern California Gas Company (Operator) and verified by the Department of Conservation, Division of Oil, Gas, and Geothermal Resources (Division). The Operator shall use accepted industry practices and procedures.

The Division has consulted with independent technical experts from the Lawrence Berkeley, Lawrence Livermore, and Sandia National Laboratories ("National Laboratories") to develop the requirements of this facility safety review. The National Laboratories experts independently reviewed and concurred with the testing requirements for the safety review detailed below.

This comprehensive safety review requires that each of the active injection wells in the Aliso Canyon Storage facility either pass a thorough battery of tests in order to resume gas injection or be taken out of operation and isolated from the underground gas storage reservoir. Several steps, detailed below, are required in this safety review. Documentation of all testing required under this comprehensive safety review shall be provided electronically to the Division within 72 hours of completion of a test in digital (i.e. LAS) and printed (i.e. pdf) form. All pressure tests required under this comprehensive safety review shall be witnessed by Division staff. A well that is properly plugged and abandoned in accordance with Public Resources Code section 3208 is not subject to testing under this comprehensive safety review. A well that does not pass all tests must be repaired, retested, and pass all tests, or be plug and abandoned.

REQUIRED TESTS FOR EACH WELL IN THE FACILITY

- Step 1:** The Operator shall perform an initial casing assessment on the well consisting of temperature and noise logs.
- a. **Temperature Log:**
A temperature survey shall be run from the surface to the packer to measure the temperature within the wellbore. A temperature survey that demonstrates no unexplained anomalous temperature changes in the well is one indication of casing integrity.
 - b. **Noise Log:**
An acoustic sensor survey capable of detecting the sound of fluid flow will be conducted the length of the well above the packer to the surface. The survey will include stops at least every 250 feet and at the midpoint of any anomaly detected by the temperature survey. The absence of anomalous sound above the packer is an indication of well integrity

- Step 2:** The results of the Temperature Logs and Noise Logs will be independently reviewed by Division engineers. Any unexplained abnormal findings in this set of tests shall be addressed by the Operator in one of the following ways:
- a. Conduct further investigation and demonstrate to the Division's satisfaction that the abnormal finding is not an indicator of a lack mechanical integrity;
 - b. Remediate the well to the Division's satisfaction; or
 - c. With Division review and approval, remove the well from operation and isolate the well from the underground gas storage reservoir in accordance with Steps 4b through 7b below.

Necessary actions to remediate any abnormalities revealed by these tests will be reviewed by Division engineers. Once repairs or mitigations are completed, the Temperature Log and Noise Log must then be repeated on the well and reviewed by Division engineers to ensure that there are no additional abnormal test results and to confirm the issue was repaired.

- Step 3:** After these tests are completed on the well, and all required action has been completed, the operator shall either:
- a. Conduct the additional tests and evaluations on the well, outlined in Steps 4a through 7a below, in order to gain approval for injecting gas through that well; or
 - b. Remove the well from operation and isolate the well from the underground gas storage reservoir in accordance with Steps 4b through 7b below.

REQUIRED TESTS IF A WELL IS INTENDED TO RESUME OPERATIONS

If Temperature and Noise Logs have been completed on a well and they indicate well integrity, and the Operator designates the well to return to injection operations, then the Operator shall perform the additional testing outlined in Steps 4a through 7a. The results of these tests will be independently reviewed by Division engineers and posted publicly. Each of the following tests requires that the production tubing be removed from the well.

Step 4a: The Operator shall conduct a **Casing Inspection log**.

The Operator shall conduct a Casing Inspection log of the well that measures the thickness of the production casing, from the surface to the bottom of the gas storage reservoir cap rock. If the inspection reveals a reduction in wall thickness, the current minimum strength of the casing will be calculated. If the current minimum strength of the casing has diminished to the point that it cannot withstand authorized operating pressures for the well plus a built-in additional safety factor of pressure, the well has failed this test. *A passing test for a casing inspection log would show no thinning of the casing that diminishes the casing's ability to contain at least 115% of the well's maximum allowable operating pressure as authorized in the current Project Approval Letter.*

Step 5a: The Operator shall conduct a **Cement Bond Log** for the well.

The Operator shall conduct a Cement Bond Log (CBL) that measures the bonding between cement and the production casing of the well, and also the bonding between the annular cement and the formation. Cement should be solidly bonded to both the well's production casing and the geologic formation to ensure a seal that prevents fluids from migrating up or down the outside of the well. *A passing test for a cement bond log shows definitive bond, as demonstrated by sonic waveform,*

between cement and casing and between cement and the gas storage formation and/or cap rock for at least 100 feet above the top of the gas storage reservoir.

Step 6a: The Operator shall conduct a **Multi-Arm Caliper Inspection** of the well.

The operator shall conduct an inspection that measures any internal degradation or significant changes to the well's geometry from the surface to the top of the gas storage reservoir, using a minimum 32-arm caliper tool. If the inspection reveals a thinning or deformity of the casing, the current strength of the casing will be calculated. If the current strength of the casing has diminished, such that it cannot withstand authorized operating pressures plus a built-in safety factor of additional pressure, the well fails this inspection. *A passing test for a Multi-Arm Caliper Inspection would show no deformation or thinning of the casing that diminishes the casing from being able to properly contain at least 115% of each well's maximum operating pressure.*

Step 7a: The Operator will conduct a **Pressure Test** of the production casing and of the well once the production tubing has been reinstalled. The Operator may conduct the casing pressure test prior to reinstalling the production tubing. Using a digital recorder, the operator will conduct a liquid-filled positive pressure test within the production tubing of the well, and in the annular space between the production tubing and the casing, to determine the well's ability to withstand normal operating pressures. The production tubing will be isolated and then pressure tested. The annular space between tubing and casing will be pressure tested. This testing also evaluates the integrity of any packers, which seal the annular space between the tubing and casing. The pressure test will be one hour and begin at a pressure of 115% of the maximum operating pressure or the minimum yield strength of the casing and tubing, whichever is less. *A passing pressure test is a pressure loss not exceeding 10% for any 30 minute period during the hour long test.*

After conducting the above tests, the Operator will conduct any indicated remediation so that the well can pass these tests. All remediation will be subject to the review of Division engineers. The well would then be required to undergo the tests once again to demonstrate well integrity.

If the well passes the Casing Wall Thickness Inspection, the Cement Bond Log, the Multi-Arm Caliper inspection and the Pressure Test to the Division's satisfaction, then the Division may clear the well for use for gas injections and withdrawal, once the Division has authorized resumption of injection into the gas storage reservoir. As noted below, wells approved for operation will only be permitted to inject or withdraw gas through the production tubing.

REQUIRED ACTIONS IF THE WELL IS TO BE TAKEN OUT OF OPERATION AND ISOLATED FROM THE GAS STORAGE RESERVOIR:

If the operator elects to take a well out of service, then the following steps shall be taken to isolate the well from the gas storage reservoir:

Step 4b: The Operator shall confirm the presence of cement outside the well's external casing in the section of the well that prevents the movement of gas from the underground gas storage reservoir to shallower geologic zones above the gas storage reservoir. Existing cement bond logs and well construction

records may be used to make this confirmation. This confirmation requires concurrence from Division engineers.

Step 5b: The Operator shall install a mechanical seal or "packer" within the well's production casing and install a mechanical plug within the well's production tubing, if applicable. These seals shall be set in place near the bottom of the well, within the portion of the well surrounded by cement. This kind of seal is an industry standard practice for isolating a well from reservoir gases or fluids and will further protect the casing from internal gas pressure.

Step 6b: The Operator shall fill the well with fluid to the well's surface in order to create appropriate downward hydrostatic pressure in the well that further contributes to the integrity of the well seal.

These measures will isolate a well from the underground gas reservoir, as confirmed by National Laboratory experts. Each of the above actions is subject to review and approval by Division Engineers.

Step 7b: Once the Operator has completed steps 4b, 5b, and 6b, and the seal is in place at the bottom of the well and the well is filled with fluid above the seal, the operator shall:

- a. Conduct daily gas monitoring at the surface of the non-operational well, including monitoring the area around the well perimeter and in the annular space between the plugged casing string and the outmost casing;
- b. Conduct noise log, temperature log and positive pressure test every six months;
- c. Conduct weekly monitoring of fluid levels in the well or, install and operate real-time pressure monitors that provide immediate notification to the operator when pressures deviate from normal in the well's interior tubing and its annular space.

The above monitoring shall be reported to Division engineers and maintained as a part of the well file. Division engineers will review all submitted information for evaluation on a regular basis to ensure that the well taken out of service has maintained safety, and the operator shall take all necessary steps maintain the safety of the well.

Any well taken out of operation cannot be approved to resume operations and gas injection until the successful completion of the battery of tests outlined above in Steps 4a through 7a (Casing Wall Thickness Inspection, the Cement Bond Log, the Multi-Arm Caliper Extension and the Pressure Test) is completed. Those tests must be successfully completed within one year of completing step 6b. If a well cannot successfully complete all necessary steps required in this safety review after one year of completing step 6b, then the well shall be properly plugged and abandoned in accordance with Public Resources Code section 3208.

REQUIREMENTS FOR WELLS RESUMING OPERATIONS IN ALISO CANYON

The Division's authorization to resume injection in the Aliso Canyon Storage Facility will be contingent on the successful completion of this comprehensive safety review. The State Oil and Gas Supervisor must confirm in writing that all wells in the facility have either completed and passed the full battery of tests required in the safety review, been taken out of service and isolated from the underground gas storage reservoir, or been properly plugged and abandoned in accordance with Public Resources Code Section 3208.

Knight, Clifford@DOC

From: Alshammasi, Ahmed J <AAlshammasi@semprautilities.com>
Sent: Thursday, August 4, 2016 8:43 AM
To: Knight, Clifford@DOC
Subject: SF 4 & SF 8

Cliff,

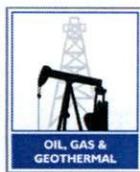
I just wanted to let you know that we were unable to fill the SF4 and SF8 wells with fluid so we no longer need isolation permits.

Best Regards,

Ahmed J (AJ) Alshammasi
Gas Storage Engineer
Southern California Gas Company
Direct: (818) 700-3887
Cell: (818) 269-6083
aalshammasi@semprautilities.com



A  Sempra Energy utility



NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

Rec'd 08-11-16 DOGGR Ventura.
FOR DIVISION USE ONLY

Bond	Forms	
	OGD114	OGD121
	CALV WIMS	115V

P216-0170

NOTICE OF INTENTION TO REWORK / REDRILL WELL

Detailed instructions can be found at: www.conservation.ca.gov/dog/

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to rework / redrill well Sesnon Fee 4, API No. 037-00650,
(Check one)

Sec. 32, T. 3N, R. 16W, SB B.&M., Aliso Canyon Field, Los Angeles County.

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

Please see attached wellbore diagram

The total depth is: 9362 feet.

The effective depth is: 9345 feet.

Present completion zone(s): Sesnon

(Name)

Anticipated completion zone(s): Same

(Name)

Present zone pressure: Storage psi.

Anticipated/existing new zone pressure: Storage psi.

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

For redrilling or deepening only, is a California Environmental Quality Act (CEQA) document required by a local agency?

Yes No If yes, see next page.

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

Please see attached well work program

If well is to be redrilled or deepened, show proposed coordinates (from surface location) and true vertical depth

at total depth: N/A feet N/A and N/A feet N/A Estimated true vertical depth: N/A
(Direction) (Direction)

Will the Field and/or Area change? Yes No If yes, specify New Field: N/A New Area: N/A

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

Name of Operator Southern California Gas Company			
Address P.O. Box 2300		City/State Chatsworth, CA	Zip Code 91313-2300
Name of Person Filing Notice Brian Vlasko	Telephone Number: (818) 700-3897	Signature 	Date 08/11/2016
Individual to contact for technical questions: Brian Vlasko	Telephone Number: (818) 700-3897	E-Mail Address: bvlasko@scmprautilities.com	

This notice and an indemnity or cash bond must be filed, and approval given, before the workover begins. (See the reverse side for bonding information.) If operations have not commenced within one year of the Division's receipt of the notice, this notice will be considered cancelled.

SoCal Gas Company



Well Operations Procedure

Sesnon Fee 4 Aliso Canyon Storage Integrity Management Program 8/11/2016 Version 1

Primary Engineer:	Brian Vlasko	818 700-3897 (ofc)/714 655-9506 (mobile)
Alternate Engineer:	Ella Lein	818 700-3676 (ofc)/661 340-4250 (mobile)
Engineering Supervisor:	Jose Iguaz	818 700-3889 (ofc)/661 384-5337 (mobile)
Well Site Supervisor:	Darryl Luttrell	661 714-2397 (mobile)
Well Work Superintendent:	Mike Volkmar	562 685-3810 (mobile)

Well Data:

API #: 037-00650-00

Datum: 2289'

KB to GL: 10.8'

MD: 9,362'

TVD: 9,361'

PBMD: 9,345'

Nature of Plug Back: Liner shoe track

Geologic Markers:

MDA – 7,460' MD / 7,460' TVD

S8 – 9,211' MD / 9,210' TVD

MP – 8,831' MD / 8,830' TVD

S14 – 9,342' MD / 9,341' TVD

S1 – 9,003' MD / 9,002' TVD

S4 – 9,078' MD / 9,077' TVD

Casing Data:

Surface Casing: 13-3/8" Cem @ 1,403'
54.5#, J55, 0 – 2,208'

Production Casing: 7", Cem @ 9,403' / ETOC @ 7,204'
29#, N80, 0 – 52'
23#, N80, 52' – 6,103'
26#, N80, 6,103' – 8,146'
29#, N80, 8,146' – 9,079'

Liner: 5", Cem @ 9360' / ETOC @ TOL 8940'
17.93#, J-55, 8940'-9360'

Tubing Data: See Attached

SoCal Gas Company



Well Operations Procedure

Perforations: See attached WBD

Objective: The intent of this program is to pull production tubing and install a retrievable bridge plug for isolation.

Current Status: Idle

SoCal Gas Company



Well Operations Procedure

PROJECT NOTES

1. BOPE requirements in Gas Company Standard 224.05 shall be fully implemented at all times.
2. The storage reservoir pressures shall be monitored during the workover with a minimum of 300 psig overbalance for well control fluids.
3. Prepare the location by removing all relevant landscaping/lighting fixtures as well as surface piping and electrical components as needed. Locate rig anchors, reinstall if necessary.
4. DOGGR permit must be posted on site. Notify the DOGGR as required for BOPE testing prior to commencing downhole operations as stated on permit. DOGGR Ventura District office (805)-654-4761. If a permit has not been issued contact DOGGR 24 hours prior to rigging up on the well for verbal approval to rig up.

WELLWORK PROGRAM

1. Move in production rig and rig pump with tank, shaker, and mixer.
2. Spot 500 bbl Baker tanks and load with 8.5 ppg KCl brine.
 - Connect pump to the tubing and vent the casing through the choke manifold to the SoCalGas withdrawal system.
 - Treat all brine with Biocide, 5 gals/100 bbls
3. Verify the well is dead. If needed, circulate well with 8.5 ppg KCL brine.
 - i. The tubing volume is ~ 52 bbls and
 - ii. The tubing/casing annulus is ~ 270 bbls.
 - iii. Use HEC polymer as required to minimize lost circulation.
4. Install BPV in tubing hanger. ND tree.
5. +++Install Class III 5M BOPE per Gas Company Standard 224.05 and in accordance with the DOGGR permit. All connections and valves must be flanged and at least 5000 psig rated. (*Confirm BOPE rating*)
 - All tests are to be charted and witnessed by a DOGGR representative.
 - Perform a 300 psig low pressure test on the annular preventer, blind rams and pipe rams for 20 minutes. Test all lines and connections to 300 psig.
 - Pressure test the Class III 5M annular preventer to 3500 psig for 20 minutes. Test blind rams and the pipe rams to 5000 psig for 20 minutes. Test all lines and connections to 5000 psig.
 - Remove BPV.

SoCal Gas Company



Well Operations Procedure

6. POOH with production equipment. Lay down production tubing and accessories.
 - a.) Attempt to release seal assembly. If not successful plan releasing seal assembly plan for a cut as close to production packer as possible
7. RIH with 7 all weight casing scraper to top of Baker Model "Retrieva-D" Packer @ 8,930'. Circulate well clean. POOH.
8. RIH with RBP. Set @ 8,850' and test to 1000 psi for 1 hour. Sand off. Cement across cap rock and proposed RBP depth verified on CBL 9/23/1976
9. POOH with RBP setting tool.
10. RIH with kill string.
11. ND BOPE and RDMO.

Well Seson Fee 4

API #: 04-037-00650-00
Sec 32, T3N, R16W

Operator: So. California Gas Co.

Lease: Seson Fee
Field: Aliso Canyon
Status: Idle Oil & Gas
BFW:
USDW:

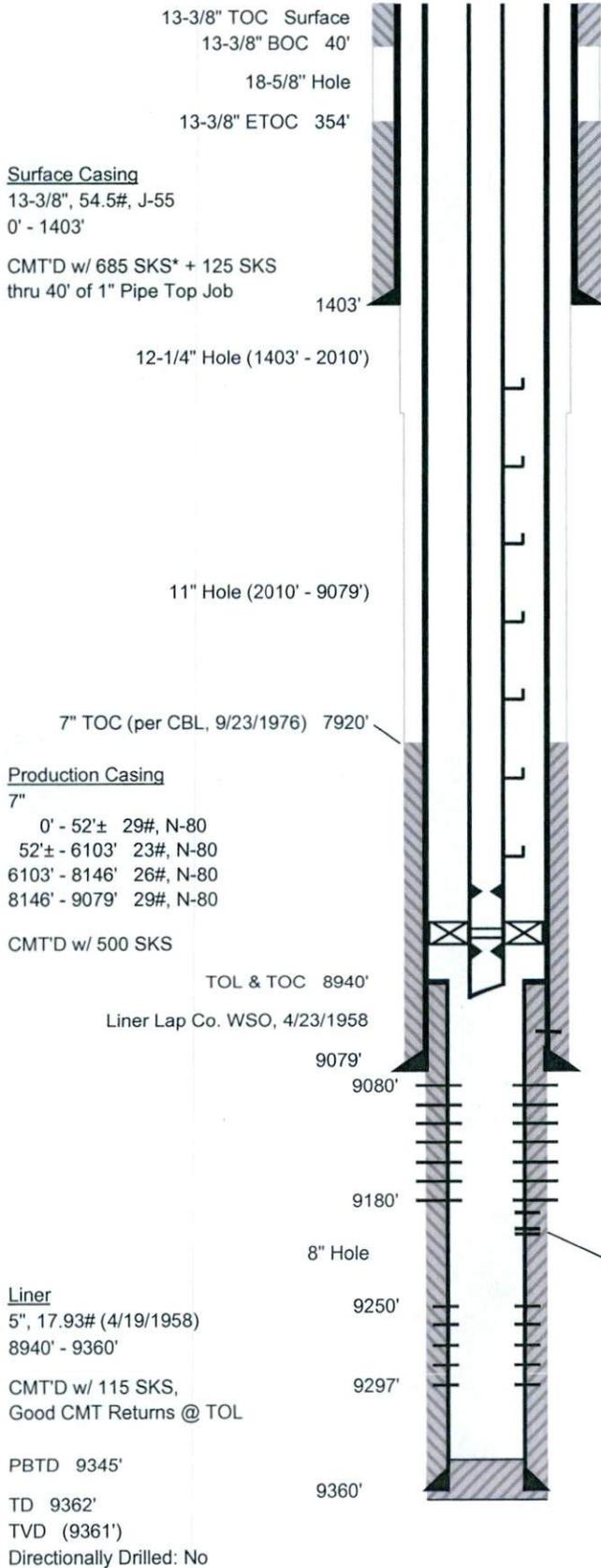
Ground Elevation: 2277.9' asl
Datum to Ground: 10.8' KB

Spud Date: 2/5/1954
Completion Date: 4/13/1954
Last Rework Date: 10/11/1976

Junk: None

Notes
***Lost circulation after displacing CMT 1000 CF**.

Top of Zone Markers md (tvd)	
PEupth	2022' (2022')
FREWupth	2604' (2604')
CRupth	2735' (2735')
K1upth	2798' (2798')
MDA	7460' (7460')
MP	8831' (8830')
S1	9003' (9002')
S4	9078' (9077')
S8	9211' (9210')
S14	9342' (9341')



Tubing
2-7/8" (10/11/1976)
0' - 1012' 6.5#, N-80
1012' - 4073' 6.5#, J-55
4073' - 5749' 6.5#, N-80
5749' - 6891' 6.5#, J-55
6891' - 8864' 6.5#, N-80
8864' - 8954' 6.5#, J-55

1711' Camco MM Mandrel (w/ R-20 Valve)
3169' Camco MM Mandrel (w/ R-20 Valve)
4064' Camco MM Mandrel (w/ R-20 Valve)
5739' Camco MM Mandrel (w/ R-20 Valve)
6883' Camco MM Mandrel (w/ R-20 Valve)
7931' Camco MM Mandrel (w/ R-20 Valve)
8855' Camco MM Mandrel (ran empty)
8900' Camco KP-4 Safety Valve Mandrel
8930' Baker Retrieval "D" PCKR w/ Seals Assembly (W/L meas.) (10/9/1976)
8931' Camco No-Go Nipple
8954' Tail
8963' Four (4) 1/2" Holes (4/8/1954) WSO

5" Perfs:
9080' - 9130' & 9145' - 9180' Four (4) 1/2" HPF (10/8/1976)
9250' - 9255'[†], 9261' - 9268'[†] & 9293' - 9297'[†] Four (4) 1/2" HPF (4/26/1958,
[†]105 CF CMT SQZ'D Away thru Perfs, 9/30/1976)
9185' Four (4) 1/2" Holes (Co. WSO, 10/7/1976)
9194' Four (4) Holes (13 CF CMT SQZ'D Away, 10/6/1976)
9196' Four (4) 1/2" Holes (52 CF CMT SQZ'D, 10/2/1976,
Shot & SQZ'D Holes to fix 7" x 5" lap leak)

Prepared by: CAM (7/25/2016)
Updated by: CAM (8/2/2016)



Well Seson Fee 4

API #: 04-037-00650-00
Sec 32, T3N, R16W

Proposed

Operator: So. California Gas Co.

Lease: Seson Fee
Field: Aliso Canyon
Status: Idle Oil & Gas
BFW:
USDW:

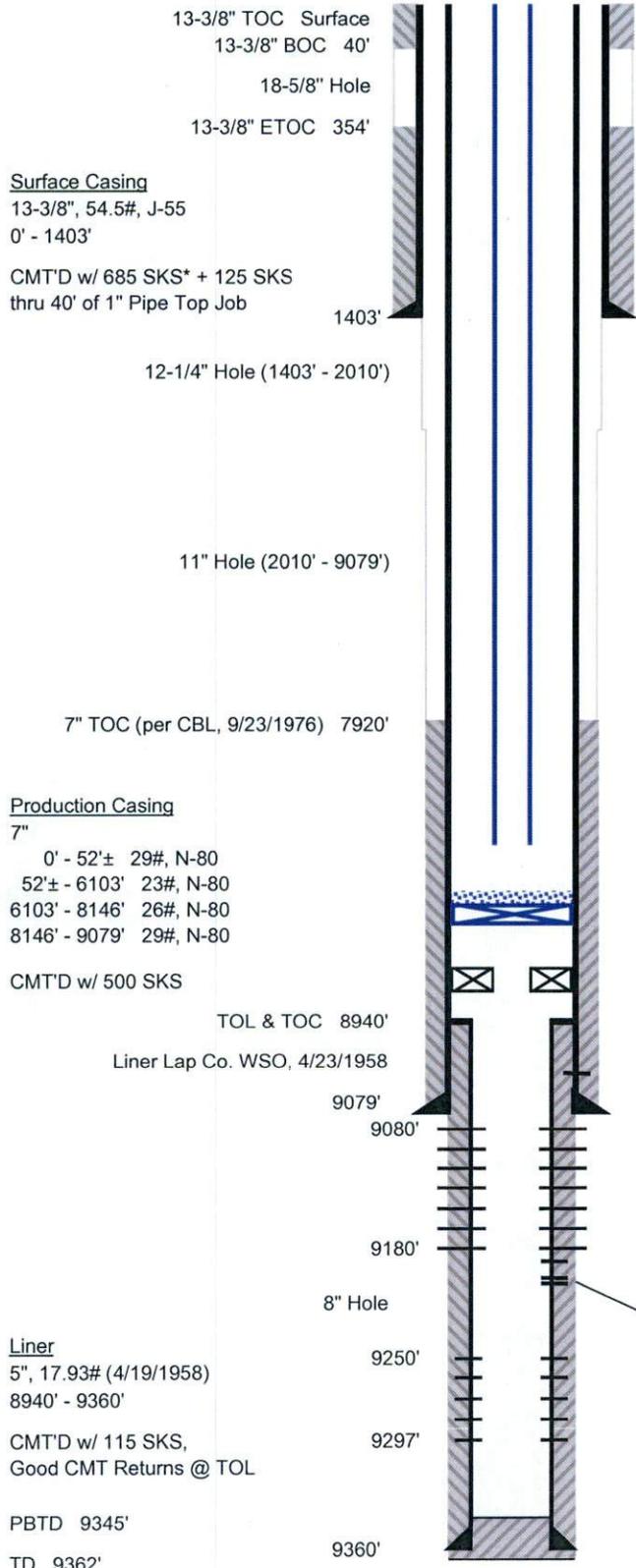
Ground Elevation: 2277.9' asl
Datum to Ground: 10.8' KB

Spud Date: 2/5/1954
Completion Date: 4/13/1954
Last Rework Date: 10/11/1976

Junk: None

Notes
**Lost circulation after displacing CMT 1000 CF".

Top of Zone Markers md (tvd)	
PEupth	2022' (2022')
FREWupth	2604' (2604')
CRupth	2735' (2735')
K1upth	2798' (2798')
MDA	7460' (7460')
MP	8831' (8830')
S1	9003' (9002')
S4	9078' (9077')
S8	9211' (9210')
S14	9342' (9341')



Tubing
2-7/8" Kill String
0' - 8500'

8.5 ppg KCL Brine to Surface

8500' Tail of Kill String

8850' 7" Retrieval Bridge Plug (Sanded Off)

8930' Baker Retrieval "D" PCKR (10/9/1976)

8963' Four (4) 1/2" Holes (4/8/1954) WSO

5" Perfs:
9080' - 9130' & 9145' - 9180' Four (4) 1/2" HPF (10/8/1976)
9250' - 9255'[†], 9261' - 9268'[†] & 9293' - 9297'[†] Four (4) 1/2" HPF (4/26/1958,
[†]105 CF CMT SQZ'D Away thru Perfs, 9/30/1976)

9185' Four (4) 1/2" Holes (Co. WSO, 10/7/1976)
9194' Four (4) Holes (13 CF CMT SQZ'D Away, 10/6/1976)
9196' Four (4) 1/2" Holes (52 CF CMT SQZ'D, 10/2/1976,
Shot & SQZ'D Holes to fix 7" x 5" lap leak)

Prepared by: CAM (7/25/2016)
Updated by: LD (8/11/2016)

Liner
5", 17.93# (4/19/1958)
8940' - 9360'
CMT'D w/ 115 SKS,
Good CMT Returns @ TOL
PBSD 9345'
TD 9362'
TVD (9361')
Directionally Drilled: No

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 22G0

Los Angeles, CA 90051

Your request, dated July 24, 1991, proposing to change the designation of well(s) in Sec. 32, T. 3N, R. 16W, S.B. B. & M., Aliso Canyon field, Los Angeles County, District No. 2, has been received.

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

FROM

"SFZU" SF-4 (037-00650)

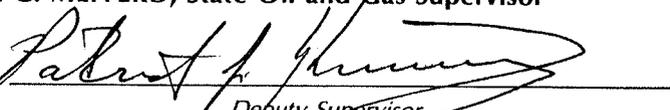
"SFZU" SF-6 (037-00652)

TO

"Sesnon Fee" 4 (037-00650)

"Sesnon Fee" 6 (037-00652)

M. G. MEFFERD, State Oil and Gas Supervisor

By 

Deputy Supervisor

PATRICK J. KINNEAR

OPERATOR SOUTHERN CALIF GAS.
 LSE & NO SFZLI SF-4
 MAP 250

	(1)	(2)	()	()	()	()
INTENTION	DRILL	ALTER CSG	alter casing convert to gas sample			
NOTICE DATED	1-22-54	3-26-58	7-30-70			
P-REPORT NUMBER	154-175	158-278	276-274			
CHECKED BY/DATE						
MAP LETTER DATED			11-27-76			
SYMBOL	●	●	↗ G			
	REC'D NEED	REC'D NEED	REC'D NEED	REC'D NEED	REC'D NEED	REC'D NEED
NOTICE	2-1-54	4-2-58	7-30-70			
HISTORY	6-7-54	1-12-76	10-25-74			
SUMMARY	6-7-54					
IES/ELECTRIC LOG						
DIRECTIONAL SURV		1-28-74				
CORE/SWS DESCRIP	6-7-54					
OTHER			CEMENT BOND 11-9-76 THERMAL NEUTRON 11-9-76			
RECORDS COMPLETE						

ENGINEERING CHECK

T-REPORTS _____

OPERATOR'S NAME _____

WELL DESIGNATION _____

LOC & ELEV _____

SIGNATURE _____

SURFACE INSPECTION _____

FINAL LETTER OK _____

CLERICAL CHECK

POSTED TO 121 _____ 170 MAILED _____

FINAL LETTER MAILED _____

RELEASED BOND _____

REMARKS: _____

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

DIVISION OF OIL AND GAS
RECEIVED
OCT 25 1976
SANTA PAULA, CALIFORNIA

History of Oil or Gas Well

OPERATOR SOUTHERN CALIFORNIA GAS COMPANY FIELD Aliso Canyon

Well No. SESNON-FEE #4, Sec. 32, T. 3N, R. 16W, S.B. B. & M.

Date October 13, 19 76 Signed P. S. Magruder, Jr.

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

P. S. Magruder, Jr.

(Address) (213) 685-3561 (Telephone Number) Title Agent (President, Secretary or Agent)

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

Date

- 9-16-76 Moved Pool Rig #26 from I.W. #83 to Sesnon-Fee #4. Rigged up.
- 9-17-76 Circulated 67#/cu.ft. polymer drilling fluid out of well with 72#/cu.ft. polymer fluid - took 150 barrels to fill hole.
- 9-18-76 Circulated well. With Archer-Reed Wireline Service, ran 2 1/2" Otis "D" plug to 97'; ran 2 1/2" "F" collar stop to 68'; ran 2 1/2" Camco Type "A" plug to collar stop. Set in Class III B.O.P.E. and nipple up same.
- 9-19-76 Rig and crew idle.
- 9-20-76 With H. & H. test pump, attempted to test B.O.P.E. - ram-type tubing hanger leaked. With Archer-Reed Services, pulled 2 1/2" Camco Type "A" plug; 2 1/2" "F" collar stop and Otis "D" plug. Pulled packer loose. Circulated bottoms up. Pulled 2 7/8" tubing - 281 joints. Set Baker Model "C" bridge plug at 25'. Using H. & H. pump, tested blind rams with water to 4000 psi.
- 9-21-76 Tested pipe rams with water to 4000 psi; tested Hydril to 2000 psi - unable to get test. Had to change out Hydril rubber. Retested Hydril with 2000 psi O.K. Tested pipe rams and blind rams with nitrogen to 4000 psi - O.K; tested Hydril to 2000 psi - O.K. Retrieved Baker bridge plug. Running in hole with 6" bit and 7" casing scraper.
- 9-22-76 Finished running in hole with 6" bit and 7" casing scraper to top of 5" liner at 8940'. Pulled out of hole. Picked up 14 joints of 2 3/8" tubing. Ran in hole with 4 1/8" bit and 5" casing scraper - found bridge at 8946'. Cleaned out and circulated.
- 9-23-76 Cleaned out fill in 5" liner from 9132' to 9342'. Circulated hole clean. Pulled out of hole. With Schlumberger Logging Service, ran "TDT" Log.

- 9-24-76 Ran Schlumberger Cement Bond and Neutron Logs. Ran in hole with Baker Model "C" bridge plug. Pulled out of hole with bridge plug - had to re-run Cement Bond Log as variable density was not on first log. Running in hole with bridge plug.
- 9-25-76 Finished running in hole with Baker Model "C" bridge plug - set at 8900'. Pulled out of hole. Set bridge plug at 100'. Removed B.O.P.E. Removed tubing head. Rigged up Alco jacks and Midway spear - unlanded 7" casing with 230,000# maximum pull. Cut off 13 3/8" wellhead. Cleaned up cellar.
- 9-26-76 Rig and crew idle.
- 9-27-76 Cut off 7" 29# casing and cut 8rd ST&C thread, screwed on 7" 29# extension, attempted to test 7" casing collar - Baker Model "C" retrievable plug would not hold. Ran and set second Model "C" bridge plug at 15' - tested 7" collar extension at 5000 psi for 20 minutes - O.K. Welded on 13 3/8" casing extension with 13 3/8", 5000# casing head.
- 9-28-76 Valley X-Ray Services x-rayed 13 3/8" casing and casing head weld - O.K. Picked up 7" casing with 7" spear and hydraulic jacks, set in 13 3/8" X 7" slips with 250,000#. Installed pack-off, cut off excess 7" casing, installed secondary flange and tubing head - tested all seals and flanges at 5000 psi - O.K. Reinstalled Class III B.O.P.E. Tested blind rams and 2 7/8" pipe rams with water at 4000 psi for 20 minutes each test - O.K. Tested Hydril Bag with water at 3000 psi for 20 minutes - O.K. Tested blind rams and 2 7/8" pipe rams with nitrogen at 4000 psi for 20 minutes each test - O.K. Tested Hydril Bag with nitrogen at 3000 psi for 20 minutes - O.K.
- 9-29-76 Ran Baker Model "C" retrieving tool and retrieved bridge plug at 15' and second bridge plug at 110'. Ran in with Baker fullbore squeeze tool and set in 7" casing at 6100'. Tested from 6100' to 8930' with 2000 psi for 20 minutes - O.K. Tested from 6100' to surface at 2200 psi for 20 minutes - O.K. Pulled and re-set squeeze tool and tested 7" casing, as follows:
- | | | |
|-------|--|----------------|
| 5537' | to surface at 2500 psi for 20 minutes) | |
| 5035' | " " " 2700 psi " 20 ") | |
| 4283' | " " " 3000 psi " 20 ") | All tests O.K. |
| 3526' | " " " 3400 psi " 20 ") | |
| 3026' | " " " 3800 psi " 20 ") | |
| 2018' | " " " 4000 psi " 20 ") | |
- Pulled out fullbore squeeze tool. Ran in with Baker Model "C" retrieving tool.
- 9-30-76 Ran Baker Model "C" retrieving tool - latched on to bridge plug. Circulated bottoms up and pulled out same. Ran in Baker fullbore squeeze tool on 2 7/8" and 2 3/8" tubing. Set tool at 9080' in 5" liner. Pump and formation took fluid rate at 16 cu.ft./minute at 1500 psi. Mixed 100 sacks of Class "G" cement premix with 0.2% of HR-7 retarder. Squeezed through retainer and perforations from 9250' to 9297' with 3500 psi final pressure. Backscuttled out 10 cu.ft. cement - 105 cu.ft. cement through perforations and 5" liner. Cement in place at 3:40 P.M. Used Halliburton Service. Pulled out fullbore. Ran in with 4 1/8" bit and 5" casing scraper.

- 10-1-76 Ran in with 4 1/8" and 5" casing scraper and located top of cement at 9077'. Drilled out cement from 9077' to 9210'. Circulated hole clean. Pressure tested 7" X 5" lap - dropped from 1500 psi to 1000 psi in 45 seconds. Pulled out of hole. Ran Schlumberger Bond Log with variable density and logged from 9203' to 8000'. Ran in with 30 stands.
- 10-2-76 Pulled out 30 stands of 2 7/8" tubing. Installed 8 5/8" flange on Hydril Bag. Ran Dresser Atlas jet gun through lubricator and shot four 1/2" jet holes at 9196'. Ran Baker fullbore squeeze tool on 2 7/8" and 2 3/8" tubing - set tool at 9049' in 5" liner. Pump and formation took fluid rate at 15 cu.ft. per minute at 2000 psi. Mixed 50 sacks of Class G" cement premix with 0.2% HR-7, squeezed through at 9196' approximately 52 cu.ft. of cement with 3000 psi final pressure and 1200 psi on annulus. Pulled up in 7" casing and backscuttled. Pulling out. Cement in place at 6:30 P.M.
- 10-3-76 Rig and crew idle.
- 10-4-76 Ran in hole with 4 1/8" bit and 5" casing scraper - located top of cement at 9096'. Drilled out hard cement to 9210'. Circulated hole clean. Pulled out of hole.
- 10-5-76 With McCullough Services, ran jet gun through lubricator and shot four holes at 9194'. Ran Johnston tester, set packer at 9155' - tail at 9170' - had medium heavy blow through 1/4" hose during the one-hour test. Pulled out of hole - had 4032' of fluid rise. Running in hole with Baker full-bore squeeze tool.
- 10-6-76 Finished running in hole with Baker fullbore and set tool at 9054' in 5" liner. Pump and formation took fluid rate at 7 cu.ft. per minute under 2500 psi. Mixed 50 sacks of Class "G" cement Premix with 0.2% of HR-7 retardent. Squeezed through holes at 9194' with 57 cu.ft. of cement under 3500 psi final pressure and 1500 psi on annulus. Backscuttled out 30 cu.ft. of cement, 13 cu.ft. through holes and 14 cu.ft. left in 5" liner. Pulled out of hole with fullbore. Cement in place at 9:30 A.M. Ran in hole with 4 1/8" bit and 5" casing scraper and located top of cement at 9050'. Drilled out cement from 9050' to 9210'. Circulated hole clean. Pulling out of hole.
- 10-7-76 Finished pulling out of hole with 4 1/8" bit and 5" casing scraper. With McCullough Services, ran jet gun through lubricator and shot four 1/2" holes at 9185'. Ran Johnston tester - set packer at 9135' and tail at 9155'. Had light blow for three minutes and then dead remainder of the one-hour test. Pulled out of hole. Had 100' drilling fluid rise - 74# mud 165,000 ppm, chloride 272,250 ppm salt. Ran in with 30 stands of tubing.

- 10-8-76 With McCullough Services, perforated the following intervals with four 1/2" jet holes per foot: 9180' to 9145'(35'); 9130' to 9080' (50'); total number of holes = 340).
- 10-9-76 Finished measuring 2 7/8" tubing out of hole. With McCullough Services, ran Baker junk basket and gauge ring to top of 5" liner at 8940'. Ran and set Baker Retrieval-"D" packer at 8930' - wireline measurements. Made up production equipment and hydrotested to 5000 psi. Ran 2 7/8" tubing - changed out all collars and applied Baker seal - hydrotested tubing to 5000 psi - held each test for one minute.
- 10-10-76 Rig and crew idle.
- 10-11-76 Finished running 2 7/8" tubing, changing out all collars and applied Baker seal, hydrotesting tubing to 5000 psi - held each test for one minute. Spaced out tubing. Latched into Baker Retrieval-"D" packer at 8930'. Pulled 25,000# over weight of tubing to check latch. Landed tubing with 6,000#. Installed tubing hanger plug. Removed B.O.P.E. Installed Christmas tree and tested same with 5000 psi for 20 minutes.
- 10-12-76 Changed 74# well fluid to 63# lease salt water. Using Camco Wireline Services, ran and set CA-2 blanking plug in No-Go nipple at 8919'. With H. & H. oil tool test pump, tested packer and seals with 2300 psi for 20 minutes - O.K. CA-2 blanking plug left in No-Go nipple. Rig released at 5:00 P.M.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Report on Operations

No. T 276-358

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

Santa Paula, Calif.
Dec. 9, 1976

DEAR SIR:

Operations at well No. "SP21" SE-4, API No. 037-00650, Sec. 32, T. 3N, R. 16W,
S.B., B & M. Aliso Canyon Field, in Los Angeles County, were witnessed
on 9/28/76. Mr. P.R. Wygle, representative of the supervisor was
present from 1700 to 2000. There were also present R. Dargatz, foreman.

Present condition of well: No additions to casing record since report dated 7/30/76.

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

DECISION:

THE BLOWOUT PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

b

M. G. MEFFERD

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

By [Signature] Deputy

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

REPORT ON PROPOSED OPERATIONS No. P 276-274

Mr. P. S. Magruder, Jr., Agent
Southern California Gas Co. Santa Paula, Calif.
P.O. Box 54790 Terminal Annex Aug. 5, 1976
Los Angeles, Calif. 90054

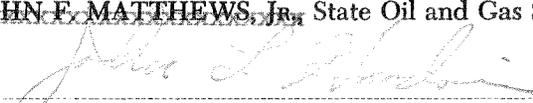
DEAR SIR: alter casing in (037-00650)
Your proposal to gas storage Well No. "SFZU" SF-4
Section 32, T. 3N, R. 16W, S.B. B. & M., Aliso Canyon Field, Los Angeles County,
dated 7/30/76, received 8/3/76, has been examined in conjunction with records filed in this office.

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.

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

Blanket Bond
MD:b

HAROLD W. BERTHOLF
JOHN F. MATTHEWS, JR., State Oil and Gas Supervisor
By , Deputy

DIVISION OF OIL AND GAS
RECEIVED

AUG 3 1976

DIVISION OF OIL AND GAS
Notice of Intention to Rework Well

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

SANTA PAULA, CALIFORNIA

FOR DIVISION USE ONLY		
BOND	FORMS	
	114	121
BB	✓	✓

DIVISION OF OIL AND GAS

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to rework well No. USF 2415 F-4 ~~SESNON FEE #4~~, API No. _____,

Sec. 32, 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. 9362'
- Complete casing record, including plugs and perforations:

13 3/8" cemented 1403'

7" cemented 9079', WSO 8963'

420' 5" cemented 9360', plug 9345
WSO on splice 8940'
Shot four 1/2" holes per foot 9297'-9293',
9268'-9261' and 9255'-9250'

- Present producing zone name SESNON Zone in which well is to be recompleted -
- Present zone pressure 3500 psi New zone pressure -
- Last produced S.I. (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. Install B.O.P.E. and pressure test.
- Pull tubing. Clean out to 9345'. Run TDT and Cement Bond Log.
- Perform any indicated remedial work. Cement off perforations and test as indicated by logs to exclude water.
- Install new 5000 psi wellhead. Pressure test 7" casing and perform any indicated remedial work. Shoot four 1/2" holes per foot 9240'-9190', 9180'-9145' and 9135'-9080'.
- Run packer, tubing, safety valve and gas lift valves.

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) 685-3561

SOUTHERN CALIFORNIA GAS COMPANY
(Name of Operator)
By P.S. Magruder, Jr. 7-30-76
(Name) (Date)
Type of Organization _____
(Corporation, Partnership, Individual, etc.)

037-00650

32-3-16

DIVISION OF OIL AND GAS
RECEIVED

JAN 28 1974

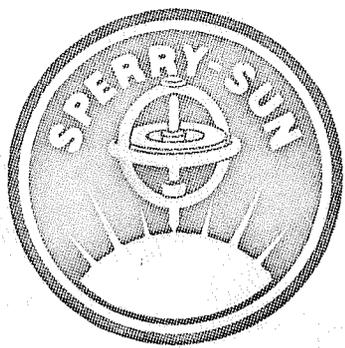
SANTA PAULA, CALIFORNIA

SPERRY-SUN

DIRECTIONAL SURVEY REPORT

FOR

SOUTHERN CALIFORNIA GAS COMPANY



(Lesson text)

(037-00650)

Survey and

TYPE OF SURVEY: GYROSCOPIC MULTISHOT

SURVEY DEPTH: FROM 0 FT. TO 8,900 FT.

LEASE: SESNON "SFZU" WELL NO. SF-4

FIELD: ALISO CANYON

COUNTY/PARISH: LOS ANGELES STATE: CALIFORNIA

DATE OF SURVEY: 1-11-74 JOB NO. SUL.75-12890-3

OFFICE: LONG BEACH

IN RUN SURVEY

MEASURED DEPTH	TRUE	TRUE	CORRECTED		DOG-LEG	RECTANGULAR COORDINATES	
	VERTICAL DEPTH	INCLINATION DEG MIN	BEARING DEG MIN	SEVERITY DEG/100	LATITUDE	DEPARTURE	
0.	0.00	0 0	N 0 0	E	0.00 N	0.00 E	
100.	100.00	0 45	N 39 21	E	.75	.42 E	
200.	199.99	0 15	N 18 8	E	.52	.90 E	
300.	299.99	0 40	S 57 53	E	.77	1.46 E	
400.	399.98	0 15	S 77 27	E	.44	2.16 E	
500.	499.98	0 35	S 68 43	E	.34	2.85 E	
600.	599.98	0 30	S 48 18	E	.21	3.65 E	
700.	699.97	0 10	N 63 47	E	.46	4.11 E	
800.	799.97	0 5	N 31 36	E	.19	4.20 E	
900.	899.97	0 20	S 28 10	W	.38	4.03 E	
1000.	999.97	0 10	N 58 47	W	.38	3.76 E	
1200.	1199.97	0 20	S 87 11	W	.11	2.93 E	
1400.	1399.97	0 15	S 17 22	W	.17	2.22 E	
1600.	1599.96	0 15	S 62 39	W	.10	1.70 E	
1800.	1799.96	0 30	S 53 11	W	.13	.62 E	
2000.	1999.96	0 15	S 54 52	W	.13	.44 W	
2200.	2199.95	0 35	S 23 8	W	.20	1.19 W	
2400.	2399.94	0 20	S 48 44	W	.16	2.03 W	
2600.	2599.94	0 20	S 28 12	E	.21	2.19 W	
2800.	2799.94	0 5	S 54 38	E	.13	1.80 W	
3000.	2999.94	0 10	S 34 42	W	.09	1.85 W	
3200.	3199.93	0 15	N 86 0	W	.11	2.45 W	
3400.	3399.93	0 15	N 74 0	W	.03	3.30 W	
3600.	3599.93	0 10	N 74 33	W	.04	4.00 W	
3800.	3799.93	0 15	S 72 8	W	.07	4.70 W	
4000.	3999.93	0 15	S 0 15	W	.15	5.12 W	
4200.	4199.92	0 45	S 75 8	W	.36	6.38 W	
4400.	4399.90	0 45	N 88 24	W	.11	8.96 W	
4600.	4599.88	0 50	N 70 16	W	.13	11.63 W	
4800.	4799.87	0 35	S 68 22	W	.28	13.95 W	
5000.	4999.86	0 5	N 19 52	E	.32	14.85 W	
5200.	5199.86	0 10	N 16 19	E	.04	14.72 W	
5400.	5399.84	1 5	N 33 41	W	.49	15.68 W	
5600.	5599.80	1 15	N 19 26	W	.17	17.46 W	
5800.	5799.76	0 55	N 44 5	W	.28	19.30 W	
6000.	5999.73	1 5	N 28 30	W	.16	21.31 W	
6200.	6199.71	0 40	N 21 1	W	.22	22.63 W	
6400.	6399.69	0 40	N 88 48	W	.37	24.21 W	
6600.	6599.68	0 40	N 30 31	W	.32	25.97 W	
6800.	6799.67	0 20	N 70 49	W	.23	27.11 W	
7000.	6999.67	0	N 78 37	W	.17	27.66 W	
7200.	4199.67	0 5	N 33 31	W	.00	26.53 W	
7400.	7399.66	0 15	N 14 31	E	.01	26.07 W	
7600.	7599.65	0 5	S 14 22	W	.17	25.99 W	
7800.	7799.64	1	S 16 25	E	.46	25.54 W	
8000.	7999.60	1	S 54 52	E	.42	23.14 W	
8200.	8199.56	0	S 44 25	E	.38	20.52 W	
8700.	8699.43	1	S 80 57	W	.43	26.28 W	
8600.	8599.33	2	N 89 7	W	.61	22.81 W	
8800.	8799.30	2	S 79 27	W	.38	31.60	

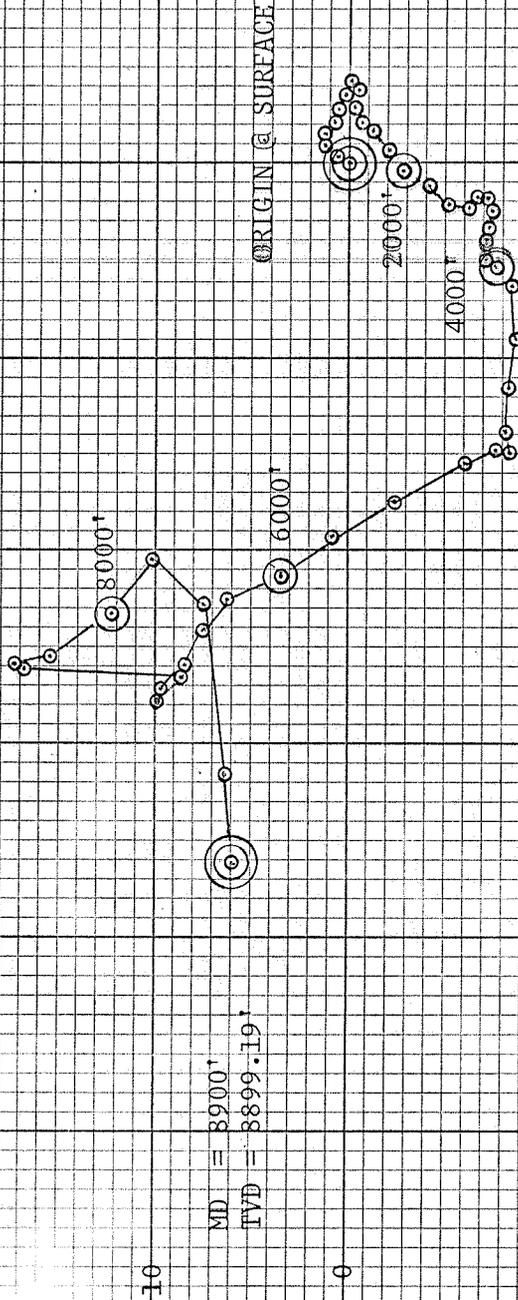
MEASURED DEPTH	TRUE VERTICAL DEPTH	TRUE INCLINATION DEG MIN	CORRECTED BEARING DEG MIN	DOG-LEG SEVERITY DEG/100
8900.	8899.19	2 30	S 85 55 W	.45

SU1,75-12890-3
 RECTANGULAR COORDINATES
 LATITUDE DEPARTURE
 5.98 N 36.20 W

HORIZONTAL DISPLACEMENT AT DEPTH 8900, IS 36.69 FEET AT N 80 37 W
 TRUE VERTICAL DEPTH IS 8899.19 FEET

TRAPAZOIDAL CALCULATIONS

SPERRY - SUN WELL SURVEYING COMPANY
HORIZONTAL PROJECTION



MDI = 3900'
TVD = 8899.19'

SOUTHERN CALIFORNIA GAS COMPANY
SESNON WELL NO. 4
ALISO CANYON FIELD
LOS ANGELES COUNTY, CALIFORNIA
CYROSCOPIC MULTISHOT SU1.75-12890-3
JANUARY 11, 1974 - SCALE: 1" = 10'

20

10

0

10

20

40

30

20

10

0

10

20

DIVISION OF OIL AND GAS

MAY 27 1958

LOS ANGELES, CALIFORNIA

et al History of Oil or Gas Well

OPERATOR Porter Sesnon, (Barbara Sesnon Cartan),
Wm. T. Sesnon Jr., Tenants in Common Aliso Canyon

Well No. "Sesnon Fee" # 4, Sec. 32, T. 3 N, R. 16 W, S. B. B. & M.
Workover #1

Signed L. P. Sacre

Date May 22, 1958

Title Easton & Sacre, Engineers
(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

Refer to Division of Oil and Gas form 107, dated March 26, 1958 and to Division of Oil and Gas form 111, No. P 158-278, dated April 3, 1958.

1958
4-11

Drilling and Production Company, contractors, moved in rotary rig and rigged up.

4-12

Installed blow-out prevention equipment consisting of a single positive Regan gate valve and a Hydril GK with accumulator and nitrogen bottle operation. The hole was filled with dead lease crude oil (19° gravity). The tubing was pulled and drill pipe was picked up.

4-13

A 4-3/4" bit was run below 60' of 3-3/16" drill collars. While on bottom the draw works engine failed and the drill pipe was picked up 7 stands. The well was then shut-in for engine repairs.

4-14

Well stood idle.

4-15

After installing spare engine the drill pipe was lowered to 9318' and the hole circulated clean. Hard sand was then cleaned out from 9340'-9360' and the shoe of the 5-1/2" liner was drilled out. The hole was then cleaned out to bottom at 9362'.

4-16

A McGill Tool Service opposed swab perforation washer was run and the liner section washed four times with pump pressures of 1800 to 2000 psi. The bit was pulled to the top of the liner and the hole circulated for two hours before pulling out.

4-17

Pulling 5-1/2" liner. Ran Hunt hydraulic liner puller on 3957.01' of 2-7/8" od Hughes extra hole drill pipe and 5027.64' of Varco drill tubing. Set casing cutter at 9194' (160' below top of liner), liner slips were set at 9038' (4' below top of liner) and the hydraulic tool slips were set at 8984' (50' above top of liner-95' above shoe of 7" casing). Set liner slips and pulled 15,000 lbs with rig and the liner puller slips were then set in the 7" casing. Pulled 78,000 lbs with hydraulic puller when liner came free at 6:30 AM. Total pull on liner was 93,000 lbs. Pulled out of hole and found spear in top of liner broken which would not allow it to release.

DIVISION OF OIL AND GAS

MAY 27 1958

LOS ANGELES, CALIFORNIA

et al History of Oil or Gas Well

Porter Sesnon, (Barbara Sesnon Cartan,
Wm. T. Sesnon Jr., Tenants in Common)

Aliso Canyon

OPERATOR

FIELD

Well No. "Sesnon Fee" #4, Sec. 32, T. 3N, R. 16 W, S. B. & M.
Workover #1

Signed

L. P. Sacre

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Title

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Date

1958

4-17

(Cont'd) Laid down top joint of liner with spear and stripped out tubing stinger and liner cutter. Laid down liner.

Ran 6-1/8" bit to 9200'+ and changed hole fluid from oil to mud. 67#, 59 visc., 4.6 c.c./30 min. W. L., 2/32" W. C., pH 8.8

4-18

After change over ran bit to bottom and cleaned out hard sand fill from 9330' to 9362'. Circulated hole clean and pulled out.

Electric Log 9079'-9362' Ran Schlumberger electric log and it recorded from 9079' to 9362'. Ran Micro log and hole caliper from 7" casing shoe at 9079' to bottom at 9362'.

Ran 6-1/8" bit on drill tubing without collars and with B-W Nu-coil scratchers clamped to drill pipe 2', 34', 66', 98', 130', 162', 226', 258' and 290' above bit. Reciprocated pipe over a 30' interval for 1-1/3 hours while circulating. The pipe was then hung at 9360' and circulation was continued for four hours. Pulled out.

4-19

5" liner. Ran 420.62' overall of 5", 17.93#, Ventura flush joint, blank, Range 2, New Spang liner stock and hung at 9360' with top of Burns plain type cementing liner hanger at 8939'. B-W 5" VRC gravel pack type centralizers were placed at 9350', 9264', 9226', 9160' and 9100'.

B-W Multiflex scratchers were placed at 9358', 9354', 9334', 9314', 9294', 9254', 9247', 9229', 9209', 9190', 9168', 9148', 9134' and 9114'.

A Baker whirler wash down float shoe, product #120, was installed on bottom and a Baker float collar, product #101, with flush joint threads was installed on top of first joint at 9324' (35.85' above shoe).

Liner was measured in hole on 4962' Varco drill tubing and 4027' of 2-7/8" Hughes extra hole drill pipe. Circulated hole clean while moving liner over 30' interval. The liner was hung at 9360' and Burns cementing mandrel was 30' below top of liner on 1 joint of 2-7/8" E. U. 8rd. thrd., N-80 tubing. Burns 5" rubber plug located below mandrel.

Liner was cemented in place with a mixture of 115 sacks Colton slow cement, 115 c.f. Sealite, 5 sacks of gel, all mixed to 90# slurry in 15 min. Burns rubber tubing plug was released from plug holder head and displaced with 20 c.f. water and 254 c.f. mud (12 c.f. over theor.) when tubing plug bumped. The 5" casing plug sheared free at 1200 psi. and after displacing 36 (theoretical) additional c.f. of mud the 5" plug bumped. The pressure was bled off and the float collar held fluid from entering the drill pipe. Pulled mandrel free of 5" casing and pulled out of hole. Cement was in place at 7:45 p.m. 5-19-58. Oil Well Cementing Co. equipment was used. Full returns were obtained throughout the cementing operations.

MAY 27 1958

DIVISION OF OIL AND GAS

LOS ANGELES, CALIFORNIA

et al History of Oil or Gas Well

Porter Sesnon, (Barbara Sesnon Cartan,
Wm. T. Sesnon Jr., Tenants in Common)

OPERATOR _____ FIELD _____ Aliso Canyon

Well No. "Sesnon Fee" #4 _____, Sec. 32 _____, T. 3N _____, R. 16 W _____, S. B. B. & M.
Workover #1

Signed _____

Date May 22, 1958 _____ Title _____
(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
1958

4-20

Standing cemented.

4-21-

Ran 6-1/8" bit and 7" casing scraper and after standing cemented 48 hours circulated out heavy mud and cement from 8180' to 8450'.

4-22
to
4-23
incl.

Rotated and circulated out heavy mud and cement from 8450' to 8890'. Required 2 points of weight. Cleaned out firm cement (5 to 8 points of weight) from 8890' to 8939'. Circulated clean. Ran 5" casing scraper (Baker) and 4-3/4" bit. Cleaned out firm cement from top of adapter at 8939' to 8967'. Circulated from 8967' to 9324'. Drilled out plug and float collar and cleaned out firm cement 9326' to 9345', leaving 15' of firm cement in bottom of liner. Pulled out.

Liner Lap Test. Ran Johnston hydraulic tester on 4832.12' of Varco 2-7/8" drill tubing and 4053.55' 2-7/8" Hughes extra hole drill pipe. Tools over all were 37.22'. Set packer on 8902.39' with tail to 8920.89' (20' above liner). Used two E type pressure recorders below packer. Clock failed on one recorder. Ran 522' water cushion and back scuttling valve at 8361'. Opened at 5:00 p.m. 5-23-58 for one hour test. Had light blow to dead in 1-1/2 min. and remained dead for balance of test. Recovered 5' net rise of normal mud. Charts showed tool had functioned properly with initial hydrostatic pressure of 4200 psi, initial flow pressure of 250 psi, final flow pressure of 250 psi and final hydrostatic pressure of 4300 psi.

4-24

Ran open end drill tubing to 9000'+ and changed circulating system from mud to lease crude oil. Ran to bottom and circulated 3 hours. Gamma-Neutron log. Rigged up Schlumberger and ran Gamma-Neutron log together with collar locator and memorizer. Recorded on 5" per 100' and 25" per 100' scales. Correlated formation depths to microlog depths before recording. J. P. interval 9293'-9297'. Ran Schlumberger S. C. Expendable type jet gun and perforated four holes per foot from 9293'-9297' with 17 shots. Collar locator unable to record perforations after shooting.

4-25

Swabbing Test 9293'-9297'. Ran Lane-Wells BOCL-3 2-3/8" x 5" tubing packer on 60' of 2-3/8" E. U. tubing, 5303' of Varco 2-7/8" g. d. drill tubing and 3600' of 2-7/8" o. d. E. U. 8rd. tubing on top. Set packer at 8963'. Rigged up and started swabbing with Guiberson type swab at 11:50 a.m. Swabbed fluid level to 3100' at 4:00 p.m. Changed

DIVISION OF OIL AND GAS

MAY 27 1958

et al

History of Oil or Gas Well

Porter Sesnon, (Barbara Sesnon Cartan,)

LOS ANGELES, CALIFORNIA

(Wm. T. Sesnon Jr., Tenants in Common)

Aliso Canyon

OPERATOR

FIELD

Well No. "Sesnon Fee" #4, Sec. 32, T. 3 N, R. 16 W, S. B. B. & M.
Workover #1

Signed

Date May 22, 1958

Title

(President, Secretary or Agent)

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Date

1958

4-25

(Cont'd) to Mission type swab and lowered fluid level to 7500' at 11:00 p.m. Checked fluid level at 1:00 a.m. 4-26-58.

4-26

4:00 a.m. and 8:00 a.m. and found it had remained at 7500'. Pulled tubing. J. P. intervals 9250'-9255', 9261'-9268'. Ran Schlumberger type S. C. expendable gun collar locator. After recording collar locations the gun was set at the correct depth and four holes per foot were shot from 9250'-9255' and 9261' to 9268'. The collar locator was then lowered to bottom and the perforations were recorded although collar locator was not functioning perfectly and went completely out after first run across perforated zone.

4-27

to

4-28

incl.

Swabbing test 9250'-9255', 9261'-9268', 9293'-9297'. Ran Lane-Wells BOC 7" x 2-7/8" packer on 2-7/8" o. d. E. U. 8rd. J-55 tubing and set packer at 8909'. Rigged up and commenced swabbing with Guiberson type swab at 9:00 a.m. Swabbed oil and fluid level to 6273' at 2:00 p.m. when fluid suddenly rose to 4273' between swab runs. swabbed oil and water (10 runs) until 9:00 p.m. and fluid level was at 4640'. Swabbed 6 to 8 barrels per hour from 10:00 p.m. to 11:00 a.m. and fluid level remained at approximately 4640'. A total of 144 bbls. fluid was swabbed from well and the cut during the last 6 hours averaged 60% oil and 40% water. Released packer and pulled tubing. Laid down drill pipe and drill tubing.

4-29

Ran 283 joints of 2-7/8" o.d. E. U. 8rd., J-55, 6.5# tubing with Venturi type pressure bomb shoe on bottom and hung at 8902.24' tubing head measurement. Pump shoes located at 8003' and 8869'. Hydro-Tested tubing going in hole. Removed b.o.pe. and installed x-mas tree.

4-30

Ran rods (120 x 3/4", 81 x 7/8", 63' x 1") and set 2" bore insert pump at 8003'. Contractor crew and equipment released at 4:00 p.m. April 30, 1958.

5-1

Set pumping unit and placed well on pump at 2:15 p.m. May 1, 1958.

5-2

188 bbls. 20-80% cut

5-3

322 bbls. 20-80% cut until 2:00 p.m. when well went to all water with a trace of oil.

5-4

264 bbls. water with a trace of oil.

APR 2 1958

STATE OF CALIFORNIA DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS LOS ANGELES, CALIFORNIA

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

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

San Francisco March 26 1958 Calif.

DIVISION OF OIL AND GAS Los Angeles Calif.

Easton/Sacre 4-2-58

In compliance with Section 3203, Public Resources Code, notice is hereby given that it is our intention to commence the work of deepening, redrilling, ~~plugging or~~ and/or altering casing at Well No. "Sesnon Fee" #4

32, T. 3N, R. 16W, SB B. & M. Aliso Canyon Field, Los Angeles County.

The present condition of the well is as follows:

- 1. Total depth. 9362'
2. Complete casing record.
13-3/8" cemented at 1403'
7" cemented at 9079'. WSO 8963'
5-1/2" hung at 9360'. Top of liner at 9034'. Perforated 2" x 80 mesh, 12 rows, 6" centers, 9360'-9074'.

Note: Please send copies of all notices to: Easton & Sacre 1716 Oak St Bakersfield, Calif.

Current Production

3. Date produced x 54 20 79% (Date) (Net Oil) (Gravity) (Cut)

The proposed work is as follows:

- 1. Recover 5-1/2" liner. If liner is not readily recoverable plug back with cement to within a few feet of 7" casing shoe. Redrill to total depth.
2. Run, cement and test liner lap of 5-1/2" o.d. casing
3. Perforate selected intervals for production.

Table with columns: MAP, MAP BOOK, CARDS, BOND, FORMS (114, 121). Includes handwritten notes like 'Alter casing' and 'noted required'.

Porter Sesnon, Barbara Sesnon Cartan, Wm. T. Sesnon Jr., Tenants in Common.

By Easton & Sacre, Engineers (Name of Operator)

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 25, 1968

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

Corrections Made as Follows	By Whom
Form 114	
" 115	
" 121	AS
" 143	
Cards	
Production Reports	cc
Well Records (Fields	AS
(Reports	
Field Maps	130
Book	9-26-68

DEAR SIR:

Your request dated ~~September 24, 1968~~ ^{32, 33, 34} letter dated August 26, 1968, relative to change in designation of well(s) in Sec. _____, T. 3 N., R. 16 W., S.B. B. & M., Aliso Canyon field, Los Angeles County, District No. 1, has been received; and in accordance with Section 3203, Public Resources Code, reading in part as follows:

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

the proposed change in designation is hereby authorized as follows: (Formerly owned by Porter Sesnon, Et Al)

<u>Old Designation</u>		<u>New Designation</u>
Sec. 32: "Sesnon Fee"	4	Sec. 32: "SF2U" SF-4 (037-00650)
"	6	" SF-6 (037-00652)
Sec. 33:	1	Sec. 33: " SF-1 (037-00647)
"	2	" SF-2 (037-00648)
"	3	" SF-3 (037-00649)
"	5	" SF-5 (037-00651)
"	7	" SF-7 (037-00653)
"	8	" SF-8 (037-00654)
Sec. 34: "Porter Fee"	1	Sec. 34: " PF-1 (037-00644)
"	2	" PF-2 (037-00645)
"	3	" PF-3 (037-00646)

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

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

REPORT OF PROPERTY AND WELL TRANSFER

Field or County **Aliso Canyon** District **1**
Former Owner: **Porter Sesnon, Et Al** Date **Sept. 25, 1968**
Description of Property **Sec. 32,33,34, T. 3 N., R. 16 W., S. B. B. & M.**

List of Wells

Sec. 32:
"Sesnon Fee" 4 (037-00650)
" 6 (037-00652)

Sec. 33:
"Sesnon Fee" 1 (037-00647)
" 2 (037-00648)
" 3 (037-00649)
" 5 (037-00651)
" 7 (037-00653)
" 8 (037-00654)

Sec. 34:
"Porter Fee" 1 (037-00644)
" 2 (037-00645)
" 3 (037-00646)

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

Type of Organization **Corporation**
Reported by: **Porter Sesnon (letter of 7-31-68)**
Confirmed by: **G. G. Nelson For Getty Oil Co. (letter of 8-26-68)**
New Operator New Status **PA**, Old Operator New Status **PA**
Request Designation of Agent **No**

Remarks:

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

[Signature]
Deputy Supervisor

	INITIALS	DATE	
Form 121	✓ ab	9-25-68	LEGEND PA—Producing Active NPA—Non Potential Active PI—Potential Inactive NPI—Non Potential Inactive Ab—Abandoned or No More Wells
New Well Cards	✓ ab	✓	
Well Records	✓	✓	
Electric Logs	✓	✓	
Production Reports	✓		
Map and Book	150 ✓ JWA	9-26-68	
Form 148			
Notice to be cancelled			
Bond status	Getty - Blanket Bond		

PORTER SESNON, BARBARA SESNON CARTAN & WILLIAM T. SESNON, JR.
(TENANTS IN COMMON)
INDEPENDENT OIL PRODUCERS
2 PINE STREET
SAN FRANCISCO 11
PHONE EXBROOK 2-3238

DIVISION OF OIL AND
RECEIVED

AUG 1 1968

INGLEWOOD, CALIFORNIA

July 31, 1968

State of California
Department of Conservation
Division of Oil and Gas
830 North La Brea
Inglewood, California 90302

Attention: Mr. William C. Bailey,
Deputy Supervisor

*John,
Pls. approve transfer.
Only below listed
wells in transfer? yes.
Also please approve
name changes on
attached list. OK JIZ
Alice*

Gentlemen:

Pursuant to Paragraph 3201 of the California Laws for Conservation of Petroleum and Gas, we are notifying you that effective August 1, 1968 Porter Sesnon, et al, Operator transfers the following 11 wells to the "Sesnon and Frew Zones Unit," which will be operated by Getty Oil Company:

Alice Carson
Sesnon Fee 1,2,3,4,5,6,7,8
Porter Fee 1,2,3

*Sec. 32, 34, 16W
33
34*

The production reports subsequent to August 1st will be filed with your department by Getty Oil Company.

This Unit Agreement dated May 22, 1968, which indicates boundary lines and tract participation, has previously been filed with your department. We presume the new unit will be operated under the name of Getty Oil Company with probably no change in well names.

Please acknowledge receipt of this letter on the copy enclosed and thereafter return it to this office in the self-addressed, stamped envelope enclosed for your convenience.

Yours very truly,

Porter Sesnon

PS:SP:elm

cc: Mr. George Wishart - Getty Oil Company
Mr. M. T. Miller - Standard Oil Company

Getty Oil Company

P.O. Box 811, Ventura, California 93001 | (805) 643-2154
DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
AUG 8 1968
SANTA PAULA, CALIFORNIA

RECEIVED
August 7, 1968
AUG 9 1968

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

INGLEWOOD, CALIFORNIA

Re: Unit Agreement for Sesnon and
Frew Zones, Aliso Canyon Field,
Los Angeles County, California

Gentlemen:

The subject agreement became effective at 7:00 A.M., August 1, 1968. Getty Oil Company has been designated the operator. Other Working Interest Owners are Standard Oil Company and the Porter Sesnon Interests.

Wells in the unit to be operated by Getty Oil Company are as follows:

Getty Oil Company

Standard-Sesnon #1 Lease wells Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 24, 25, 29, 30, 31 and 44.

Porter Lease wells Nos. 4, 12, 25, 26, 30, 31, 32, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46 and 47.

Porter-Sesnon Line Well No. 42.

Fernando Fee wells Nos. 31, 32, 33, 34 and 35.

Mission Adrian Fee wells Nos. 3, 4 and 5.

Standard Oil Company

U.S. Lease Sec. 29-3N-16W
Frew 1 Lease wells Nos. 2, 3, 4, 5, 6, 7, 8 and 9. *"Frew" 1 - Aliso*

Porter Sesnon, et al

Porter Fee wells No. 1, 2 and 3.

Sesnon Fee wells Nos. 1, 2, 3, 4, 5, 6, 7, and 8.

Getty Oil Company, as operator, will submit the Monthly Oil, Water and Gas Production Report, Form 110 covering the above wells in addition to the remaining wells operated by Getty in the Aliso Canyon Field.

Very truly yours,

GETTY OIL COMPANY

EEL:brm

C. G. Nelson
C. G. Nelson, Agent

cc: G. C. Wishart
J. M. Cadden

WELL DESIGNATION CHANGES
FOR
FREW AND SESNON ZONE UNIT
ALISO CANYON FIELD, LOS ANGELES COUNTY, CALIFORNIA

AUG 27 1968

INGLEWOOD, CALIFORNIA

Section	Township & Range	Old Designation			New Designation		
		Operator	Lease	Well No.	Operator	Lease	Well No.
29	T3N R16W	Standard	Frew 1	2	Getty	SFZU	F-2
"	" "	"	"	3	"	"	F-3
"	" "	"	"	4	"	"	F-4
"	" "	"	"	5	"	"	F-5
"	" "	"	"	6	"	"	F-6
"	" "	"	"	7	"	"	F-7
"	" "	"	"	8	"	"	F-8
"	" "	"	"	9	"	"	F-9
34	" "	Porter, Sesnon et al	Porter Fee	1	}	"	PF-1
"	" "		"	2		"	PF-2
"	" "		"	3		"	PF-3
33	" "		Sesnon Fee	1		"	SF-1
"	" "		"	2		"	SF-2
"	" "		"	3		"	SF-3
32	" "		"	4		"	SF-4
33	" "		"	5		"	SF-5
32	" "		"	6		"	SF-6
33	" "		"	7		"	SF-7
"	" "	"	8	"	SF-8		
28	" "	Getty	Std. Sesnon 1	1	"	"	SS-1
"	" "	"	"	2	"	"	SS-2
"	" "	"	"	3	"	"	SS-3
29	" "	"	"	4	"	"	SS-4
28	" "	"	"	5	"	"	SS-5
"	" "	"	"	6	"	"	SS-6
"	" "	"	"	7	"	"	SS-7
"	" "	"	"	8	"	"	SS-8
"	" "	"	"	9	"	"	SS-9
29	" "	"	"	10	"	"	SS-10
28	" "	"	"	11	"	"	SS-11
29	" "	"	"	12	"	"	SS-12
28	" "	"	"	13	"	"	SS-13
"	" "	"	"	14	"	"	SS-14
"	" "	"	"	16	"	"	SS-16
"	" "	"	"	17	"	"	SS-17
"	" "	"	"	24	"	"	SS-24
"	" "	"	"	25	"	"	SS-25
"	" "	"	"	29	"	"	SS-29
"	" "	"	"	30	"	"	SS-30
"	" "	"	"	31	"	"	SS-31
"	" "	"	"	44	"	"	SS-44

DIVISION OF OIL AND GAS

JUN 7 1954

WELL SUMMARY REPORT

LOS ANGELES, CALIFORNIA

Operator ^{et al} **Porter Sesnon, Barbara Sesnon Cartan,**
Wm. T. Sesnon Jr., Tenants in Common Field **Aliso Canyon**

Well No. **"Sesnon Fee" #4** Sec. **32** T. **3 N.** R. **16 W.** S. B. **B & M**
Location **3442.29' South & 7668.82' West from Station 84 Aliso Canyon Line** Elevation above sea level **2277.9 (ground)** Foot
All depth measurements taken from top of **kelly bushing** which is **10.8** feet above ground

In compliance with the provisions of Chapter 23, 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 **May 28, 1954** Signed **Porter Sesnon**
Easton & Sacre **Don Gordon** Title **Tenant**
(Engineer ~~83307200X~~) (Superintendent) (President, Secretary or Agent)

Commenced drilling **February 5, 1954** Completed drilling **April 13, 1954** Drilling tools **Rotary**

Total depth **9362'** Plugged depth **None** GEOLOGICAL MARKERS DEPTH

Log **None** Top of upper Sesnon S₁₁ **9078'**
Top of lower Sesnon S₈ **9187'**

Commenced producing **April 13, 1954** (date) Flowing **Intermittent** (constant, intermittent, or shut)

	Clean Oil (bbl. per day)	Gravity Clean Oil	Per cent Water including emulsion	Gas (Mcf. per day)	Tubing Pressure	Wellhead Pressure
32/64" W & 16/64" S Initial production	1321	20.8	0.2	602	230	1400
24/64" Production after 30 days	322	20.0	10.0	105	150	2180

CASING RECORD (Perfor. Hole)

Size of Casing (A.P.I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Seamless or Welded	Grade of Casing	Size of Hole Drilled	Number of Joints of Casing	Depth of Cement Footing (feet)
20"	51'	Surface	8 gauge	New	Spiral Weld	-	-	Concrete	
13-3/8"	1403'	Surface	54.5	New	Seamless	J-55	18-5/8"	585 + Sealite	
7"	9079'	Surface	29, 26, 23	New	Seamless	N-80	11"	500	
5-1/2"	9360'	9034'	17#	New	Seamless	J-55	8"	None	

PERFORATIONS

Size of Casing	From	To	Size of Perforations	Number of Perforations	Thickness of Perforations	Method of Perforations
5-1/2"	9360	9074	2" x 80 Mesh	12	6"	6° M. U. G.

1403' - 9360'

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
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et al History of Oil or Gas Well

JUN 7 1954

OPERATOR **Porter Sesnon, (Barbara Sesnon Cartan),**
(Wm. T. Sesnon Jr., Tenants in Common) FIELD **Aliso Canyon**

LOS ANGELES, CALIFORNIA
S. B. P. & M.

Well No. **"Sesnon Fee" #4**, Sec. **32**, T. **3 N.**, R. **16 W.**

Signed *Porter Sesnon*

Date **May 28, 1954**

Title *Tenant*
(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.

Prior to moving in drilling equipment, the location was equipped with cellar and 20" I.D., 8 gauge Taylor spiral-weld conductor pipe cemented in 30" hole at a depth of 35' below cellar floor, or 40' below ground level, or at 51' K. B. measurement.

1954

- Feb. 2 K. L. Kellogg & Sons, drilling contractors, moved rig from "Sesnon Fee" #3 to to "Sesnon Fee" #4 location, rigged up and commenced drilling operations at 12:00 noon February 5, 1954. Drilled 12-1/4" hole to 206' and lost circulation at 2:00 P.M. Mixed lost circulation material and regained partial circulation. Drilled ahead to 247'.
- Feb. 5 incl.
- Feb. 6 Drilled 12-1/4" hole from 247' to 826'. 71# mud, 43 sec. viscosity. Lost circulation at 520' for 2-1/2 hours. Drilled ahead with partial to no circulation, using fibertex, sawdust, cotton seed hulls and gel, to 826'.
- Feb. 7 Drilled 12-1/4" hole from 826' to 1008' with partial to no circulation. Mud coming out of hillside below rig and around sump hole. Filled hole with clear water through fill up line and dumped in 15 sacks dry cement.
- Feb. 8 Drilled 12-1/4" hole from 1008' to 1150'. Twisted off leaving four 8" drill collars in hole with top of fish at 973.04'. 69# mud, 110 seconds viscosity, 9% sand.
- Feb. 9 Ran 10" B - R socket, torque jars and bumper sub; took hold of fish and recovered same.

Equalized 25 sacks cement through drill pipe hung at 60'. Ran in hole after standing 4 hours and twisted off, leaving four 8" drill collars and stub of 5" drill pipe in hole. Ran B - R socket as before and recovered fish.

Ran 12-1/4" bit and drilled from 1150' to 1282'.
- Feb. 10 Drilled 12-1/4" hole from 1282' to 1497' with no circulation trouble. 68# mud, 48 seconds viscosity.

DIVISION OF OIL AND GAS

JUN 7 1954

History of Oil or Gas Well

OPERATOR ^{et al} Porter Sesnon, (Barbara Sesnon Cartan,)
Wm. T. Sesnon Jr., Tenants in Common FIELD Aliso Canyon

LOS ANGELES, CALIFORNIA

Well No. "Sesnon Fee" #4, Sec. 32, T. 3 N., R. 16 W., S. B. B & M.

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- 1954
Feb. 11 Drilled 12-1/4" hole from 1497' to 1739' with no circulation trouble. 69# mud, 53 sec. viscosity.
- Feb. 12 Drilled 12-1/4" hole from 1739' to 1938'. 69# mud, 47 sec. viscosity, 8% sand, no circulation trouble.
- Feb. 13 Drilled 12-1/4" hole from 1938' to 2010'. 70# mud, 55 sec. viscosity, 7% sand. Opened 12-1/4" hole to 18-5/8" from 0' to 426' with Smith 12-1/4" x 18-5/8" hole opener.
- Feb. 14 Opened hole 12-1/4" to 18-5/8" from 426' to 1144'. 71# mud, 47 sec. viscosity, 6% sand.
- Feb. 15 Opened 12-1/4" hole to 18-5/8" from 1144' to 1272'. 70# mud, 46 sec. viscosity, 4% sand.
- Feb. 16 Opened 12-1/4" hole to 18-5/8" from 1272' to 1402'. 68# mud, 45 sec. viscosity, 4% sand. Pulled out and ran 12-1/4" bit to bottom (2010'), circulated and conditioned mud. Pulled out and ran Eastman Multiple shot survey.
- Feb. 17 Ran and cemented at 1403.27', 36 joints of 13-3/8", 54.5# Spang seamless, 8 round thread, J-55 casing with 585 sacks of Victor construction cement mixed with 24 sacks B - J Gel (1%) and 879 cu. ft. of Sealite (1:1-1/2 mix) and weighing 81#/cu. ft., followed by 100 sacks Victor construction cement treated with 1% CaCl₂ and weighing 115 - 120#/cu. ft. Total slurry calculated at 20% excess. Used two top plugs (top wood and bottom rubber) and displaced with 1250 cu. ft. of mud, and plugs bumped under 300 p.s.i. at 7:55 P.M. (theoretical displacement 1222 cu. ft.). Lost circulation after displacing cement 1000 cu. ft. Started mix at 6:15 A.M., and finished mix at 7:10 A.M. Started displacing at 7:17 A.M. Two B - J pump trucks used.

Casing detail: Baker open guide shoe with Baker centralizers fitted at 10' and 42' above shoe.

Pumped 125 sacks Victor construction cement mixed with 1-1/2 sacks of gel and 3 sacks of Pana-seal through 40' of 1" pipe outside of 13-3/8" casing. Cement to surface at 1:00 P.M.
Landed 13-3/8" casing and installed blow-out prevention equipment.

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR ^{et al} Porter Sesnon, (Barbara Sesnon Cartan,
Wm. T. Sesnon Jr., Tenants in Common) FIELD Aliso Canyon

Well No. "Sesnon Fee" #4, Sec. 32, T. 3 N., R. 16 W., S. B. B & M.

Signed

Date May 28, 1954

Title

(President, Secretary or Agent)

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1954

- Feb. 18 Tested Shaffer positive rams with 1000# for 30 minutes, O.K. Ran 11" bit and tested Hydril Bag Packer with 1000# for 30 minutes, O.K.

Checked shoe at 1403' and drilled out 5' of cement below shoe. Conditioned mud and cleaned out hole to 2010' and drilled ahead to 2312'. 68# mud, 42 sec. viscosity, 1-1/2% sand.
- Feb. 19 Drilled 11" hole from 2312' to 2741'. 75# mud, 40 sec. viscosity, 5% sand.
- Feb. 20 Drilled 11" hole from 2741' to 3353'. 76# mud, 45 sec. viscosity, 5% sand, 18 cc/30 minutes, 3/32" F. C.
- Feb. 21 Drilled 11" hole from 3353' to 3949'. 85# mud, 60 sec. viscosity, 6% sand, 16 cc/30 minutes, 3/32" F. C.
- Feb. 22 Drilled 11" hole from 3949' to 4198'. 81# mud, 50 sec. viscosity, 4% sand, 14 cc/30 minutes, 2/32" F. C.
- Feb. 23 Drilled 11" hole from 4198' to 4471'. 78# mud, 43 sec. viscosity, 2% sand, 9.8 cc/30 minutes, 3/32" F. C.
- Feb. 24 Drilled 11" hole from 4471' to 4865'. 80# mud, 43 sec. viscosity, 3% sand, 9 cc/30 minutes, 2/32" F. C.
- Feb. 25 Drilled 11" hole from 4865' to 5322'. 79# mud, 43 sec. viscosity, 2-1/2% sand, 8.1 cc/30 minutes, 2/32" F. C.
- Feb. 26 Drilled 11" hole from 5322' to 5707'. 81# mud, 43 sec. viscosity, 4% sand, 7.5 cc/30 minutes, 2/32" F. C.
- Feb. 27 Drilled 11" hole from 5707' to 5928'. 80# mud, 45 sec. viscosity, 3% sand, 9.5 cc/30 minutes, 2/32" F. C.
- Feb. 28 Drilled 11" hole from 5928' to 6193'. 80# mud, 52 sec. viscosity, 3% sand, 8 cc/30 minutes, 2/32" F. C.
- Mar. 1 Drilled 11" hole from 6193' to 6316'. 81# mud, 51 sec. viscosity, 4% sand, 9 cc/30 minutes, 2/32" F. C.

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR ^{et al} Porter Sesnon, Barbara Sesnon Cartan,
Wm. T. Sesnon, Jr. Tenants in Common FIELD Aliso Canyon

Well No. "Sesnon Fee" #4, Sec. 32, T. 3 N., R. 16 W., S. B. B. & M.

Signed

Date May 28, 1954

Title

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- Date 1954
- Mar. 2 Drilled 11" hole from 6316' to 6481'. 78# mud, 44 sec. viscosity, 2-1/2% sand, 5.2 cc/30 minutes, 2/32" F. C.
 - Mar. 3 Drilled 11" hole from 6481' to 6646'. 81# mud, 53 sec. viscosity, 3% sand, 7 cc/30 minutes, 2/32" F. C.
 - Mar. 4 Drilled 11" hole from 6646' to 6708', reamed hole from 6646' to 6708' in endeavor to straighten. Survey at 6700' reduced from 2° 30' to 2° 20'. Drilled ahead to 6725'. 80# mud, 45 sec. viscosity, 2-1/2% sand, 8 cc/30 minutes, 2/32" F. C.
 - Mar. 5 Drilled 11" hole from 6725' to 6832'. 80# mud, 48 sec. viscosity, 3% sand, 6.2 cc/30 minutes, 2/32" F. C.
 - Mar. 6 Drilled 11" hole from 6832' to 6956'. 80# mud, 50 sec. viscosity, 3% sand, 6.4 cc/30 minutes, 2/32" F. C.
 - Mar. 7 Drilled 11" hole from 6956' to 7093'. 80# mud, 48 sec. viscosity, 2-1/2% sand, 7.4 cc/30 minutes, 2/32" F. C.
 - Mar. 8 Drilled 11" hole from 7093' to 7202'. 80# mud, 48 sec. viscosity, 3% sand, 8.2 cc/30 minutes, 2/32" F. C.
Ran Eastman multiple shot survey from 2010' to 7202'.
 - Mar. 9 Drilled 11" hole from 7202' to 7394'. 82# mud, 50 sec. viscosity, 3% sand, 8.4 cc/30 minutes, 2/32" F. C.
 - Mar. 10 Drilled 11" hole from 7394' to 7541'. 81# mud, 51 sec. viscosity, 4% sand, 7 cc/30 minutes, 2/32" F. C.
 - Mar. 11 Drilled 11" hole from 7541' to 7635'. 82# mud, 52 sec. viscosity, 3% sand, 7.4 cc/30 minutes, 2/32" F. C.
 - Mar. 12 Drilled 11" hole from 7635' to 7773'. 81# mud, 49 sec. viscosity, 3-1/2% sand, 7.8 cc/30 minutes, 2/32" F. C.
 - Mar. 13 Drilled 11" hole from 7773' to 7870'. 81# mud, 50 sec. viscosity, 4% sand, 8.6 cc/30 minutes, 2/32" F. C.

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR ^{et al} Porter Sesnon, (Barbara Sesnon Cartan,
Wm. T. Sesnon Jr., Tenants in Common) FIELD Aliso Canyon

Well No. "Sesnon Fee" #4, Sec. 32, T. 3 N., R. 16 W., S. B. B. & M.

Signed

Date May 28, 1954

Title

(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

- 1954
- Mar. 14 Drilled 11" hole from 7870' to 7987'. 81# mud, 46 sec. viscosity, 3-1/2% sand, 8 cc/30 minutes, 2/32" F. C.
 - Mar. 15 Drilled 11" hole from 7987' to 8048'. 81# mud, 47 sec. viscosity, 3% sand, 8.9 cc/30 minutes, 2/32" F. C.
 - Mar. 16 Drilled 11" hole from 8048' to 8146'. 81# mud, 48 sec. viscosity, 4% sand, 8.6 cc/30 minutes, 2/32" F. C.
 - Mar. 17 Drilled 11" hole from 8146' to 8263'. 81# mud, 49 sec. viscosity, 3% sand, 8.7 cc/30 minutes, 2/32" F. C.
 - Mar. 18 Drilled 11" hole from 8263' to 8360'. 80# mud, 55 sec. viscosity, 3% sand, 9.8 cc/30 minutes, 2/32" F. C.
 - Mar. 19 Drilled 11" hole from 8360' to 8469'. 80# mud, 50 sec. viscosity, 3% sand, 8.4 cc/30 minutes, 2/32" F. C.
 - Mar. 20 Drilled 11" hole from 8469' to 8607'. 81# mud, 49 sec. viscosity, 3% sand, 8.3 cc/30 minutes, 2/32" F. C.
 - Mar. 21 Drilled 11" hole from 8607' to 8673'. 76# mud, 45 sec. viscosity, 1% sand, 4.6 cc/30 minutes, 2/32" F. C.
 - Mar. 22 Drilled 11" hole from 8673' to 8790'. 77# mud, 48 sec. viscosity, 1% sand, 4.0 cc/30 minutes, 2/32" F. C.
 - Mar. 23 Drilled 11" hole from 8790' to 8864'. 77# mud, 46 sec. viscosity, 1% sand, 3.7 cc/30 minutes, 2/32" F. C.
 - Mar. 24 Drilled 11" hole from 8864' to 9000'. 77# mud, 45 sec. viscosity, 1% sand, 3.4 cc/30 minutes, 2/32" F. C.

DIVISION OF OIL AND GAS

History of Oil or Gas Well

et al
 OPERATOR Porter Sesnon, (Barbara Sesnon Cartan),
Wm. T. Sesnon Jr., Tenants in Common FIELD Aliso Canyon

Well No. "Sesnon Fee" #4, Sec. 32, T. 3 N., R. 16 W., S. B. B. & M.

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Date

1954Mar. 25

Circulated and conditioned mud for electric log.
Ran Schlumberger electric log to 9000', Run #1.

Ran 7-5/8" conventional Oliver core barrel with rock head.
 Core #1 from 9000' to 9030', cut 30', recovered 9'.
 77# mud, 46 sec. viscosity, 1% sand, 3.5 cc/30 minutes, 2/32" F. C.

Mar. 26

Ran 7-5/8" conventional Oliver core barrel with rock head.
 Core #2 from 9030' to 9055', cut 25', recovered 22'.
 Ran 7-5/8" conventional Oliver core barrel with Mercury Tungsten rock head.
 Core #3 from 9055' to 9081', cut 26', recovered 1'.
 77# mud, 46 sec. viscosity, 1% sand, 3.5 cc/30 minutes, 2/32" F. C.

Mar. 27

Ran 7-5/8" Globe bit to bottom at 9081', conditioned hole and mud.
Ran Schlumberger electric log, Run #2 - 9000' to 9079'.
 Ran 7-5/8" Oliver conventional core barrel with rock head.
 Core #4 from 9081' to 9111', cut 30', recovered 24'.
 77# mud, 46 sec. viscosity, 1% sand, 3.6 cc/30 minutes, 2/32" F. C.

Mar. 28

Ran 7-5/8" Oliver conventional core barrel with Mercury Tungsten insert rock head.
 Core #5 from 9111' to 9115', cut 4', recovered 0'.
 Core #6 from 9115' to 9121', cut 6', recovered 3'.
 76# mud, 45 sec. viscosity, 1% sand, 3.6 cc/30 minutes, 2/32" F. C.

Mar. 29

Ran 7-5/8" Oliver conventional core barrel with rock head.
 Core #7 from 9121' to 9149', cut 28', recovered 6-1/2'.
 Core #8 from 9149' to 9175', cut 26', recovered 20'.
 76# mud, 45 sec. viscosity, 1% sand, 4 cc/30 minutes, 2/32" F. C.

Mar. 30

Ran 7-5/8" Oliver conventional core barrel with rock head.
 Core #9 from 9175' to 9205', cut 30', recovered 9'.
 Core #10 from 9205' to 9225', cut 20', recovered 3'.
 77# mud, 45 sec. viscosity, 1% sand, 3.8 cc/30 minutes, 2/32" F. C.

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR ¹⁹⁵⁴ Porter Sesnon, (Barbara Sesnon Cartan,
Wm. T. Sesnon Jr., Tenants in Common) FIELD Aliso Canyon

Well No. "Sesnon Fee" #4, Sec. 32^t, T. 3 N., R. 16 W., S. B. B. & M.

Signed

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1954

- Mar. 31 Ran 7-5/8" Soll expanding core barrel with rock head.
Core #11 from 9225' to 9247', cut 22', recovered 21'.
Core #12 from 9247' to 9257', cut 10', recovered 7'.
76# mud, 45 sec. viscosity, 1% sand, 3.6 cc/30 minutes, 2/32" F. C.
- Apr. 1 Ran 7-5/8" Soll expanding core barrel with rock head.
Core #13 from 9257' to 9277', cut 20', recovered 7'.
Core #14 from 9277' to 9297', cut 20', recovered 19'.
75# mud, 50 sec. viscosity, 1% sand, 3.4 cc/30 minutes, 1/32" F. C.
- Apr. 2 Ran 7-5/8" Soll expanding core barrel with rock head.
Core #15 from 9297' to 9315', cut 18', recovered 3'.
Core #16 from 9315' to 9336', cut 21', recovered 21'.
Core #17 from 9336' to 9348', cut 12', recovered 1'.
78# mud, 48 sec. viscosity, 1% sand, 3 cc/30 minutes, 2/32" F. C.
- Apr. 3 Ran 7-5/8" Soll expanding core barrel with rock head.
Core #18 from 9348' to 9361', cut 13', recovered 9'.
Ran 7-5/8" Oliver conventional core barrel with rock head.
Core #19 from 9361' to 9362', cut 1', recovered 0'.
Total depth 9362'.
Circulated hole clean and ran Schlumberger electric log, run #3.
- Apr. 4 Ran Schlumberger micro-log, and took sidewall samples.
Ran 11" Smith 6 point hole opener and reamed tight hole from 5400' to 9000'.
Opened 7-5/8" hole to 11" from 9000' to 9034'. 76# mud, 48 sec. viscosity, 1% sand, 3.6 cc/30 minutes, 2/32" F. C.
- Apr. 5 Opened 7-5/8" hole to 11" hole from 9034' to 9078'. Circulated and conditioned mud. Came out of hole laying down 5" drill pipe.

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR ^{et al} Porter Sesnon, (Barbara Sesnon Cartan),
M. T. Sesnon Jr., Tenants in Common FIELD Aliso Canyon

Well No. "Sesnon Fee" #4, Sec. 32, T. 3 N. R. 16 W. S. B. B. & M.

Signed

Date May 28, 1954

Title

(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

1954
Apr. 5
(Cont'd)

7" Casing. Ran and cemented at 9079', 222 joints of 7" N-80 casing, bottom 933' was 29#, next 2043' was 26#, and balance 23# except top joint which was 29#. Casing was Range 3 Spang, seamless, new. Used 500 sacks of Colton Hi-Temp cement. Mixed 118# slurry in 10 minutes with two trucks and displaced cement with 2011 cu. ft. of mud in 35 minutes (38 cu. ft. over theoretical). Maximum working pressure 500#, plugs bumped under 1500# pressure. Used one top rubber plug. B - J cementing equipment, and cement in place at 7:40 P.M.

Casing detail: Baker fill up shoe, fill up collar on top of first joint. Baker centralizers at 10', 50' and 100' above shoe. Eight B - W. Multiflex scratchers evenly spaced on bottom 2 joints.

Apr. 6 Removed blow-out prevention equipment and landed 7" casing after standing cemented 13 hours.

Installed tubing head and blow-out prevention equipment.

Apr. 7 Tested positive rams with 1000# for 15 minutes, O.K. Picked up and ran 3-1/2" drill pipe, with 6" bit and Baker casing scraper. Closed pipe rams and tested with 1000# for 15 minutes, O.K.

Apr. 8 Located top of cement at 8976', circulated and conditioned mud.

Attempted W. S. O. test through holes at 8963'.

Ran M. O. Johnston combination jet gun and tester on 3-1/2" drill pipe and 99' of 4-3/4" drill collars with 900' water cushion. Jet perforated four 1/2" holes at 8963'. Set packer at 8910' with perforated tail to 8931'. Opened valve at 8:45 A. M. for 1 hour test. Puff blow, then dead. 120' rise of mud and sand, however trip valve did not break open. Charts showed tool did not open.

W. S. O. through shot holes at 8963'.

Ran M. O. Johnston Hydraulic tester on 3-1/2" drill pipe with 900' water cushion. Set packer at 8910', perforated tail to 8931'. Opened valve at 5:20 P.M. for 1 hour test. Very light blow for 6 minutes then dead. Recovered 90' net rise of drilling fluid. Charts showed complete drawdown. Water shut off test of 7" casing witnessed and approved by Division of Oil and Gas Engineer G. J. Borkovich.

DIVISION OF OIL AND GAS

et al History of Oil or Gas Well

OPERATOR Porter Sesnon, (Barbara Sesnon Cartan),
Wm. T. Sesnon Jr., Tenants in Common FIELD Aliso Canyon

Well No. "Sesnon Fee" #4 Sec. 32 T. 3 N. R. 16 W. S. B. B. & M.

Signed _____

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Date

1954
Apr. 9

Ran 6-1/4" bit and Baker casing scraper. Drilled out cement and checked float collar at 9036'. Drilled out cement to 9076' and conditioned mud. Drilled out shoe and cleaned out hole to 9362', circulated and conditioned mud.

Ran 8" Baker wall scraper and wall scraped 7-5/8" hole to 8" hole from 9081' to 9124'. 71# mud, 40 sec. viscosity, 1/2% sand, 3.3 cc/30 minutes, 1/32" F. C.

Apr. 10 Wall scraped 7-5/8" hole to 8" hole from 9124' to 9288'. 71# mud, 38 sec. viscosity, 1/2% sand, 3.4 cc/30 minutes, 1/32" F. C.

Apr. 11 Wallscraped 7-5/8" hole to 8" hole from 9288' to 9362'. Circulated and conditioned mud.

Liner. Ran and hung at 9360', 8 joints of 5-1/2", 17#, Spang, seamless, J-55, Security flush joint, casing as liner. Top of Burns lead seal adapter and hanger at 9034.16'. Perforated 2" x 80 Mesh, 12 rows, 6" centers, 6° M. U. C., from 9360' to 9073.86'. Shoe is Baker product #103 cement bull plug with cast iron guide. Liner in place 3:20 P.M.
Came out of hole laying down 3-1/2" drill pipe.

Apr. 12 Tubing. Ran and landed at 9004.34', 286 joints of 2-7/8" O. D., 6.5#, E. U. Spang, new, 8 round thread Range 2 tubing - in place at 10:20 A.M. Shop-made Venturi type shoe on bottom with 2.1" opening. Pump shoe on top of first joint. Bottom 10' of first joint perforated with 3/8" holes, 4 rows, 12" centers - all Kelly Bushing measurements.

Removed blow-out prevention equipment and installed xmas tree and made necessary pipe connection for displacing mud with oil.

Started displacing mud with oil 5:40 P.M. April 12, 1954 and finished displacing at 9:25 P.M. From 9:25 P.M. to 10:30 P.M. would displace oil through casing and out tubing for 6 to 8 minute intervals, then stop pump and gauge "follow-ups" which lasted 15 to 18 minutes. Maximum displacing pressure 1050#, total crude used was 398 barrels. At 11:00 P.M. April 12, 1954, began swabbing from 300'. Ran swab total of 40 times and maximum swabbed depth was 2000' and lowest fluid level was 1500'. (Well shut in 3:05 to 3:45 A.M.)

DIVISION OF OIL AND GAS

ch al History of Oil or Gas Well

OPERATOR **Porter Sesnon, (Barbara Sesnon Cartan),
(Wm. T. Sesnon Jr., Tenants in Common)** FIELD **Aliso Canyon**

Well No. **"Sesnon Fee" #4**, Sec. **32**, T. **3 N.**, R. **16 W.**, S. B. **B. & M.**

Signed _____

Date **May 28, 1954**

Title _____
(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.

1954
4-13

Well started flowing 5:05 A.M. April 13, 1954. To sump at 6:00 A. M. through 32/64" Willis with tubing pressure of 75 to 150#. At 6:50 A.M. opened to 32/64" Willis and 48/64" Shaffer and tubing pressure dropped to 10#. At 8:40 A. M. through 32/64" Willis only, tubing pressure 325#. At 9:00 A.M. through 32/64" and 20/64" Shaffer and tubing pressure dropped from 270# to 225#. Sample 7% mud, 0.2% sand. At 10:30 A.M. tubing pressure was 240#, 13.9% mud, 0.1% sand, no free water. At 11:05 A.M., 9% mud, 225# pressure. At 12:00 noon, 6.4% mud, no free water. Well turned to tank at 1:10 P.M. April 13, 1954.

Rig released 1:00 P.M. April 13, 1954.

Production

<u>Date</u>	<u>Bean</u>	<u>B/D Oil</u>	<u>Cut</u>	<u>Tbg. Press.</u>	<u>Csg. Press.</u>	<u>G.O.R.</u>
4-14-54	32/64 W & 15/64 S	969/19 hr.	0.2	310	None	328
4-15-54	"	1055	0.2	310	None	-
4-16-54	32/64 W & 11/64 S	1321	0.2	310	800	-
4-17-54	"	1365	0.2	230	1400	456
4-23-54	17/64 W	138	0.2	760	2325	
4-25-54	17/64 W	130	0.2	360	2450	

Porter Sesnon, (Barbara Sesnon Cartan,
Wm. T. Sesnon, Jr., Tenants in Common)

"Sesnon Fee" #4

HOLE DEVIATION

<u>Depth</u>	<u>Inclination</u>	<u>Depth</u>	<u>Inclination</u>
240'	1° 50'	6250'	2° 10'
400	1 10	6314	2 05
600	1 00	6346	1 55
800	1 00	6480	2 05
1000	3 00	6588	2 05
1200	4 00	6700	2 20
1495	2 50	6770	2 05
1527	2 45	6830	1 40
1557	2 15	6911	1 45
1587	2 30	6911	1 40
1617	2 30	6970	1 15
1700	2 20	7000	1 25
1769	1 45	7093	1 30
1830	1 50	7210	0 30
1892	2 00	7353	1 05
1920	1 40	7357	1 20
1982	1 00	7488	1 00
2008	0 50	7525	0 45
1000	2 30	7733	0 15
1100	3 50	7808	0 50
2100	0 50	7914	1 00
2300	0 20	8038	0 30
2470	0 30	8190	0 30
2665	0 30	8287	1 00
2866	0 10	8469	0 50
2950	0 30	8615	1 00
3160	0 30	8721	1 45
3350	0 50	8810	1 40
3550	0 30	8900	1 50
3750	0 10	8998	2 00
3950	0 30	9078	2 15
4025	0 10	9188	0 15
4198	0 35	9358	0 30
4440	1 15		
4650	1 15		
4865	0 45		
5190	?		
5400	0 50		
5480	1 00		
5707	1 00		
5769	1 30		
5928	1 15		
6105	1 50		

SUBMIT IN DUPLICATE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator ^{et al} Porter Sesnon, Barbara Sesnon Cartan, Wm. T. Sesnon Jr., Tenants in Common Field Aliso Canyon
Well No. "Sesnon Fee" #4 Sec. 32, T. 3 N., R. 16 W., S. B. B. & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
<u>SIDEWALL SAMPLES</u>					
	2622'				Conglomeritic sandstone, sub-rounded to rounded pebbles.
	2638'				Marly - Grey, medium grained, limey sandstone. (Pebbles of igneous rocks.)
	7160'				No recovery.
	7472'				Fine greenish grey sandstone.
	7552'				Marly - Calcareous sandstone - one small pebble of pure calcite.
	7563'				Marly - Calcareous sandstone - one small pebble of pure calcite.
	7640'				No recovery.
	9013'				Brownish siltstone, faint petroleum odor.
	9216'				Fine grained silty sand, good petroleum odor.
	9272'				No recovery.
	9304'				No recovery.

SUBMIT IN DUPLICATE

FORM 101
CALIFORNIA STATE PRINTING OFFICESTATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS WELL

et al
 Operator Porter Sesnon, (Barbara Sesnon Cartan),
Wm. T. Sesnon Jr., Tenants in Common Field Aliso Canyon
 Well No. "Sesnon Fee" #4 Sec. 32, T. 3 N., R. 16 W., S. B. B. & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
0'	206'		Drilled		Sand and rock.
206	247		"		Shale and shells.
247	1119		"		Sand and shale.
1119	1158		"		Sand and boulders.
1158	1282		"		Shale with streaks sand.
1282	1436		"		Sand.
1436	1581		"		Sand and shale.
1581	1739		"		Sand and shale and shells.
1739	2655		"		Sand and shale.
2655	2741		"		Sand.
2741	4027		"		Sand and shale.
4027	4339		"		Shale.
4339	6193		"		Sand and shale.
6193	6254		"		Shale with streaks sand.
6254	6316		"		Shale and sand.
6316	6481		"		Shale with streaks sand.
6481	6646		"		Sand and shale.
6646	7093		"		Shale and sand.
7093	7214		"		Shale.
7214	7541		"		Shale with streaks sand.
7541	7635		"		Shale.
7635	7870		"		Shale with streaks sand.
7870	7987		"		Shale with streaks hard sand.
7987	8048		"		Shale with streaks sand.
8048	8203		"		Shale and sand.
8203	8263		"		Shale with hard streaks sand.
8263	9000		"		Shale and sand.
9000	9030	30'	Core #1	9'	8' Hard, massive, brownish gray silty shale. Mottled appearance. Plentiful gray silt inclusions. Numerous fossil shells and some fish remains. Parts of core speckled.
					1' Very hard shell, sandy gray siltstone.
9030	9055	25	Core #2	22'	5' Siltstone, gray, hard, occasional oil stained spots. Shell fragments and several well preserved Pectens.
					2' Siltstone, sandy, with spotty oil staining, tight appearing, gas bubbles and few oil spots on mud sheath.

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

et al

LOG AND CORE RECORD OF OIL OR GAS WELL

Porter Sesnon, Barbara Sesnon Cartan,

Operator Wm. T. Sesnon Jr., Tenants in Common Field Aliso Canyon

Well No. "Sesnon Fee" #4 Sec. 32, T. 3 N., R. 16 W., S. B. B. & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
9030'	9055'		Core #2 Continued		4' Sandstone, oil stained, firm friable, medium grained, generally tight appearing, free oil spots. 8' Siltstone, oil stained to gray where tight. 3' Siltstone, gray, massive, impermeable appearing, bottom 6" contains spotty oil staining.
9055	9081	26'	Core #3	1'	1' Hard lime cemented sandstone shell. No oil shows. Core burned with burned odor.
9081	9111	30	Core #4	24'	9' Oil sand, firm, friable, fine to medium grained. Evenly stained. Good odor and cut. 3' Oil sand, firm, friable, medium grained, becoming coarse downward, and grading to: 12' Oil sand, firm, friable, coarse grained, saturated, excellent odor, bottom 1/2' becoming somewhat silty.
9111	9115	4'	Core #5	None	
9115	9121	6'	Core #6	3'	1/2' Oil sand, soft, coarse grained, friable, saturated. 1' Shell, hard, gray, lime cemented. 1-1/2' Oil sandstone, hard, difficultly friable, fine to coarse grained, silty, burned odor due to coring.
9121	9149	28'	Core #7	6-1/2'	6-1/2' Siltstone, hard, gray, massive, limey, impermeable appearing, steep shear, no oil shows.
9149	9175	26'	Core #8	20'	1' Oil sand, friable, fine grained, silty, tight. 9' Siltstone, firm, friable, sandy, oil stained, very tight appearing. 10' Sandstone, firm, friable, silty, to medium grained, massive, oil stained, tight appearing.

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator *et al* Porter Sesnon, Barbara Sesnon Cartan,
Wm. T. Sesnon Jr., Tenants in Common Field Aliso Canyon

Well No. "Sesnon Fee" #4 Sec. 32, T. 3 N., R. 16 W., S. B. B. & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
9175'	9205'	30'	Core #9	9'	9' Siltstone, hard, greenish gray, no oil staining, same shear at 45° with fairly reliable dips of 25°.
9205	9225	20'	Core #10	3'	1/2' Oil sand, firm friable, medium grained. 2-1/2' Shell, hard, sandy, calcareous, cemented, bottom 1/2' having spotty oil staining.
9225	9247	22'	Core #11	21'	21' Sandstone, oil stained, firm, friable massive, silty, good odor, apparent good permeability, fossil fragments.
9247	9257	10'	Core #12	7'	1' Sandstone, shell, hard, lime cemented, rare oil stained spots, impermeable appearing. 5' Sandstone, oil saturated with some gray spots, hard, medium to coarse grained, very tight appearing, occasional limey streaks. 1' Oil sand, firm, friable, coarse, more permeable than 5' above, evenly oil stained, good odor.
9257	9277	20'	Core #13	7'	1/4' Shale, gray, brittle. 4-3/4' Oil sand, firm, friable, medium to coarse grained, saturated appearing, porous and permeable. 2' Interbedded Oil Sand as 4-3/4' above, and hard limey sandstone, shells having spotty oil staining. Oil Sand is saturated and evenly oil stained.
9277	9297	20'	Core #14	18'	1' Oil sand, medium grained, firm friable and silty. 3' Oil sand, coarse grained, porous, firm friable, good appearance. 2' Calcareous hard sandstone shell. Spotty oil stained, grade to firm, gray silty sand with no staining. 13' Oil sand, fine to medium grained, very tight, very silty. Abundant shale inclusions. Appearance of low permeability. Thin bed (4") of fossiliferous sandstone near bottom.

DIVISION OF OIL AND GAS

JUN 7 1954

LOG AND CORE RECORD OF OIL OR GAS WELL

LOS ANGELES, CALIFORNIA

Porter Sesnon, (Barbara Sesnon Cartan)

Operator (Wm. T. Sesnon Jr., Tenants in Common) Field Aliso Canyon

Well No. "Sesnon Fee" #4 Sec. 32, T. 3 N., R. 16 W., S. B. B. & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
9297'	9315'	18'	Core #15	3'	1/4' Conglomeritic pebbles to 1" diameter. 2-3/4' Sandstone, soft, fine grained, silty, evenly oil stained, good odor.
9315	9336	21'	Core #16	21'	21' Sandstone, fine grained, somewhat silty, oil stained, firm, friable. Fracture planes have gray sheen, occasional fossil fragments. Two 1" cemented sandstone shells gray 1' and 10' from top of core. Bottom 6' well washed in removing from core barrel. Fair visual permeability.
9336	9348	12'	Core #17	1'	1' Oil sand, firm, friable, evenly oil stained. Badly broken, badly burned. Gray sheen.
9348	9361	13'	Core #18	9'	8' Sandstone, massive, firm friable, oil stained, fine grained, fairly clean, gray sheen. 1' Hard limestone shell, pebbles. Several inches fine grained sandstone on bottom, oil stained as above.
9361	9362	1'	Core #18	None	-
					<u>Total depth 9362'</u>
					<u>Electric log depth 9360'</u>
					Core description and sidewall sample descriptions by C. L. Dorn.

DIVISION OF OIL AND GAS

Report on Test of Water Shut-off

(FORMATION TESTER)

No. T 154-428

Mr. William T Sesnon Jr
707 North Maple Drive
Beverly Hills
 Agent for PORTER SESNON ET AL

Los Angeles 15 Calif.
April 15 19 54

DEAR SIR:

Your well No. "Sesnon Fee" 4, Sec. 32, T. 3 N, R. 16 W, S. B B & M.
Aliso Canyon Field, in Los Angeles County, was tested for water shut-off
 on April 8, 19 54. Mr. V. F. Gaede, Inspector, designated by the supervisor was present
 from 8:30 p.m. to 9:30 p.m. as prescribed by law; there were also present L. Sacre, Engineer;
E. R. Chastan, Driller.

Shut-off data: 7 in. 23, 26, 29 lb. casing was cemented at 9079 ft.
 on April 5, 19 54 in 11 in. hole with 500 ~~xxxx~~ sacks of cement
 calculated to fill behind casing to 7549 ft. below surface.

Casing record of well: 13-3/8" cem. 1403'; 7" cem. 9079', four 1/2" holes 8963', W.S.O.

Present depth 9362 ft. cmt. bridge 9079 ft. to 9035 ft. Cleaned out cmt. 9035 ft. for test.
 A pressure of 1000 lb. was applied to the inside of casing for 15 min. without loss after cleaning out to 9035 ft.
 A Johnston tester was run into the hole on 3 1/2 in. drill pipe ~~running~~,
 with 900 ft. of water ~~and~~ cushion, and packer set at 8910 ft. with tailpiece to 8927 ft.
 Tester valve, with 3/8 in. bean, was opened at 5:25 p. m. and remained
 open for 1 hr. and 0 min. During this interval there was a very light steady blow for 6
min., then no blow thereafter.

Mr. ~~reported:~~

INSPECTOR G. J. BORKOVICH VISITED THE WELL FROM 12:30 P. M. TO 1:30 P. M. ON APRIL 8, 1954, AND MR. SACRE REPORTED:

1. An 11" rotary hole was drilled from 1403' to 9079'; and a 7-5/8", from 9079' to 9362'.
2. A Johnston gun and tester was run into the hole on 3 1/2" drill pipe and packer set at 8910' with tailpiece at 8931'.
3. The 7" casing was shot-perforated with four 1/2" holes at 8963'.

THE INSPECTOR NOTED THAT the tester did not open.

THE INSPECTOR ARRIVED AT THE WELL AND MR. SACRE REPORTED THAT a Johnston tester was run as noted above.

THE INSPECTOR NOTED

1. When the drill pipe was removed, a net recovery of 90' of drilling fluid was found in the drill pipe above the tester, equivalent to 0.7 bbl.
2. The recording pressure bomb chart showed that the tester valve was open 1 hr.

THE 7" SHUT-OFF AT 8963' IS APPROVED.

VFG:my

cc - Easton & Sacre
 - Company

E. H. MUSSER
 RECD. BUSHX State Oil and Gas Supervisor

By R. N. Halling, Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 154-216
Los Angeles 15
Calif. February 23 1954

Mr William T Sesnon Jr
~~Mr~~ 707 North Maple Drive
Beverly Hills Calif.
Agent for PORTER SESNON, ET AL

DEAR SIR:

Operations at your well No. "Sesnon Fee" 4 Sec. 32, T. 3 N, R. 16 W, S B B. & M.,
Aliso Canyon Field, in Los Angeles County, were witnessed by
G. J. Borkovich, Inspector, representative of the supervisor,
on February 18, 1954. There was also present F. Garber, Drilling Foreman;
B. Fulbright, Driller.

Casing Record 13-3/8" cem. 1403'. T.D. 2010'. Junk None

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

The inspector arrived at the well at 10:00 a.m. and Mr. Garber reported:

1. An 18-5/8" rotary hole was drilled from the surface to 1403'.
2. On February 17, 1954, 13-3/8", 54.5 lb. casing was cemented at 1403' with 585 sacks of cement, 879 cu. ft. Sealite (1:1 1/2 mix), and 24 sacks of gel.
3. Cement did not return to the surface.
4. On February 17, 1954, 125 sacks of cement was pumped down around the 13-3/8" casing through 1" pipe hanging at 40'.
5. A 12-1/4" rotary hole was drilled from 1403' to 2010'.

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

1. A Shaffer complete shut-off gate for closing in the well with the drill pipe out of the hole.
2. A Hydril blowout preventer for closing around the 4-1/2" drill pipe.
3. The controls for the above equipment were located outside the derrick.
4. A 2" mud fill-up line with a 2" high pressure stopcock into the 13-3/8" casing below the above equipment.
5. A high pressure stopcock on the kelly.

The inspection was completed at 10:30 a.m.

THE BLOWOUT PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

GJB:OH GJB

cc Porter Sesnon et al
2 Pine Street
San Francisco 11 California

Easton & Sacre
1660 Oak Street
Bakersfield California

R. D. BUSH
State Oil and Gas Supervisor

By *R. H. Halling* Deputy

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

REPORT OF CORRECTION OR CANCELLATION

Los Angeles 15 California

Mr. William T Sesnon Jr
Agent for Porter Sesnon et al
707 North Maple Drive
Beverly Hills California

August 25 19 54

DEAR SIR:

In accordance with information in this office of ~~of~~ ~~19~~
(letter, form, conversation)

the following change pertaining to your well No. "Sesnon Fee" 4
Sec. 33, T. 3 N, R. 16 W, S B B. & M., Aliso Canyon field,
District No. 1, is being made in our records:

The corrected location is

The corrected elevation is

Report No. T154-216 dated February 23, 1954 have been
T154-428, dated April 15, 1954, has been

corrected as follows: The correct number of the section in which this well is
located is Sec. 32 instead of 33.

Your notice to drill dated January 22, 1954,
(Drill, abandon, etc.)

and our report No. P 154-175, issued in answer thereto, are hereby cancelled
inasmuch as the work will not be done. If you have a drilling bond on file covering this
notice it will be returned. No request for such return is necessary. are being corrected, also.

Other:

Corrections Made as Follows:	By Whom
Form 114	✓ [Signature]
" 115	✓ [Signature]
" 124	✓ [Signature]
" 148	✓ [Signature]
Cards (Fred [Signature])	OK FER
Production Reports	
Well Records (Folders)	✓ Young
(Reports)	✓ Young
Field Maps	✓ No chg
Map Book	✓ No chg

FEK:my
cc - Porter Sesnon et al
- Easton & Sacre

Yours truly
E. H. MUSSER
State Oil and Gas Supervisor

By R. W. Halling
Deputy Supervisor

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

REPORT OF CORRECTION OR CANCELLATION

Los Angeles 15 California

February 5 19 54

Mr William T Sesnon Jr
707 North Maple Drive
Beverly Hills California

Agent for Porter Sesnon Et Al

Dear Sir

In accordance with information in this office dated _____
(letter, form, etc.)
the following change pertaining to your well No. "Sesnon Fee" 4,
Sec. 32, T. 3 N., R. 16 W., S.B. B. & M., Aliso Canyon field,
District No. 1, is being made in our records:

- The corrected location is _____
- The corrected elevation is _____
- Report No. _____, dated _____

CORRECTIONS MADE AS FOLLOWS:	BY WHOM
FORM 114	
" 115	
" 121	
" 142	
CARDS	
PRODUCTION REPORTS	
WELL RECORDS (FOLDERS)	
FIELD MAPS (REPORTS)	
MAP BOOK	

Mochange
Noch
Red
Red
has been

corrected as follows: _____

- Your notice to _____ dated _____
(Drill, abandon, etc.)
and our report No. P _____, issued in answer thereto, are hereby cancelled
inasmuch as the work will not be done.

- Other: ~~Your notice to drill dated January 22, 1954, and our report No. 154-175, issued in answer thereto, are being corrected to show the well in~~

Sec. 33, T. 3 N., R. 16 W.
(See correction letter dated 8-25-54 which
supersedes this one. my)

cc- Mr R D Bush (2)
Porter Sesnon Et Al
Easton & Sacre

Yours truly
R. D. BUSH
State Oil and Gas Supervisor

By *R. H. Hallberg*
Deputy Supervisor

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS
REPORT ON PROPOSED OPERATIONS

No. P154-175

Los Angeles 15 Calif. February 3 19 54

MR. William T Sesnon Jr
707 North Maple Drive
Beverly Hills Calif.

121

*Correction letter 2-5-54. el

Agent for PORTER SESNON, ET AL

DEAR SIR:

Your 22* proposal to drill Well No. "Sesnon Fee" 4,
Section 32 32** T. 3 N., R. 16 W., S B B. & M., Aliso Canyon Field, Los Angeles County,
dated Jan. 22 19 54, received Feb. 1 19 54, 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

"Location of Well: 3442.29' feet South along section line and 7668.82 feet West at right angles to said line from Sta. 84 Aliso Canyon Line
Elevation of ground above sea level 2277.9 feet mat datum.
All depth measurements taken from top of Kelly Bushing which is 10.8 feet above ground."

PROPOSAL

"PROPOSED CASING PROGRAM

Size of Casing

Inches A.P.I.	Weight	Grade and Type	Top	Bottom	Cementing Depths
13-3/8"	54.5#	J-55 Smls.	Surface	600'-1500'	Cementing depths to depend on lost circ.zones.
7"	23#, 26#, 29#	N-80 Smls.	Surface	9025'±	9025'±
5-1/2"	17#	J-55 Smls.	9000'±	9300'±	

Intended zone or zones of completion: Sesnon Zone 9025'± - 9300'±

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

DECISION

THE PROPOSAL IS APPROVED PROVIDED THAT

1. 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 AS FOLLOWS:
 - (a) To inspect the installed blowout prevention equipment before drilling below 2500'.
 - (b) To witness a test of the effectiveness of the 7" shut-off.

FEK:OH

cc Porter Sesnon, et al
2 Pine Street
San Francisco 11 California

M/H

Easton & Sacre
1660 Oak Street
Bakersfield California

R. D. BUSH
State Oil and Gas Supervisor

By R. W. Halling Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED

FEB 1 1954

037-00650

Notice of Intention to Drill New Well

This notice and surety bond must be filed before drilling begins

LOS ANGELES, CALIFORNIA

San Francisco

January 22

54

MAP	MAP BOOK	Calif. CARDS	BOND	FORMS	
				114	121

DIVISION OF OIL AND GAS

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

our intention to commence the work of drilling well No. "Sesnon Fee" 4, Sec. 32 32**, T. 3-N,

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

*Correction letter 2-5-54. eb

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

Location of Well: 3442.29' feet South along section line and 7668.82 feet West

at right angles to said line from the Sta. 84

Aliso Canyon Line

Elevation of ground above sea level 2277.9 feet mat datum.

All depth measurements taken from top of Kelly Bushing which is 10.8 feet above ground.
(Derrick Floor, Rotary Table or Kelly Bushing)

PROPOSED CASING PROGRAM

SIZE OF CASING INCHES A.P.I.	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS
13-3/8"	54.5#	J-55Smls.	Surface	600'-1500'	Cementing depths to depend on lost circ. zones.
7"	23#, 26# 29#	N-80Smls.	Surface	9025'+	9025'+
5-1/2"	17#	J-55Smls.	9000'+	9300'+	

Intended zone or zones of completion: Sesnon Zone 9025'+ - 9300'+

Note: Please forward copies of all notices to Easton & Sacre, 1660 Oak Street, Bakersfield, California

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

Address: 2 Pine Street
San Francisco 11, California

Porter Sesnon, Barbara Sesnon Cartan,
Wm. P. Sesnon Jr., Tenants in Common
(Name of Operator)

Telephone Number: Exbrook 2-1855

By: Porter Sesnon

**Correction letter 8-25-54. my

STD. SEC. 1-12

STD. SEC. 1-14

Proposed Oil Well Location

IN SEC. 32, T. 5N., R. 16W
S. B. M.
IN LOS ANGELES COUNTY,
CALIFORNIA

SCALE 1"=100'
JAN. 1958
Frank R. Howard L.S. 2608

816.31 TO R.O. LINE

RD. SEC. COR.

FO/ACRE

N 02° 12' 05" E
420.55 ±

N 02° 12' 05" W
299.45 ±

N 02° 12' 05" E
300

N 02° 12' 05" W
300

N 89° 43' 30" W
340.95

29
32
33

N 89° 38' 40" W
486.87

218.15 ±

N 89° 36' 40" W

579.91

60.04

PROPOSED OIL WELL LOCATION, (SEE FEET # 4)

COORDINATES { 3442.29' SOUTH
7668.82' WEST } OF STA. 84

GROUND EL. = 2277.9 ±

BASIS OF BEARINGS
T.W. A.O. Co. FILE P.O. 58W
BASIS OF COORDINATES
STA. 84. ALSO CANYON LINE

660

SEE FEET # 3

1"=100'