

3

Calif. Oil Co. State  
SW74-NW74 Sec12-Twp14N-R18E T25  
Navajo County

COUNTY Navajo AREA \_\_\_\_\_ LEASE NO. State 2519

WELL NAME California Oil Company #1A State ~50' south of #1 State

LOCATION SW/NW/4 SEC 12 TWP 14N RANGE 18E FOOTAGE 1370 FNL 1320 FWL  
 ELEV 5830' GR 5841 KB SPUD DATE 12-12-61 STATUS P&A TOTAL DEPTH 2947'  
 COMP. DATE 2-26-62

CONTRACTOR

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY	DRILLED BY CABLE TOOL	PRODUCTIVE RESERVOIR	INITIAL PRODUCTION
8"	66'			<input checked="" type="checkbox"/>			
5 9/16	722'						
4	1940'						
2 7/8	2407'						

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Coconino	65'	x	x	
Upper Supai	794'			
Ft. Apache	1475'			
Lower Supai	1536'			
Naco	2414'			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
Gamma Ray Neutron			Am Strat
			SAMPLE DESCRP.
			SAMPLE NO. <u>679 / 656</u>
			CORE ANALYSIS
			DSTs

REMARKS Cores - continuous from 1947 to TD (Surface to 1947) #1 State APP. TO PLUG   
 NOTE: Rig skidded from former location (approx. 50' north, SEE #154) PLUGGING REP.   
 Due to trouble on location. New permit was issued but no new filing fee collected. COMP. REPORT

WATER WELL ACCEPTED BY \_\_\_\_\_

BOND CO. St. Paul Fire & Marine Insurance Co. BOND NO. 400 FV 3293  
 BOND ANT. \$ 10,000 CANCELLED 8-16-63 DATE \_\_\_\_\_ ORGANIZATION REPORT   
 FILING RECEIPT 9270 LOC. PLAT  WELL BOOK  PLAT BOOK   
 API NO. 02-017-05015 DATE ISSUED 1-2-62 DEDICATION All

PERMIT NUMBER 175

## WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

New Well  Work-Over  Deepen  Plug Back  Same Reservoir  Different Reservoir  Oil  Gas  Dry

DESCRIPTION OF WELL AND LEASE

Operator: **California Oil Company, Western Division** Address: **1700 Broadway, Denver, Colorado**

Federal. State or Indian Lease Number or name of lessor if fee lease: **#2519** Well Number: **2519-1A** Field & Reservoir: **Holbrook Area**

Location: **1370' SNL, 1320' EWL** County: **Navajo County, Arizona**

Sec. TWP-Range or Block & Survey: **NW 1/4 Section 12, T. 14 N., R. 18 E.**

Date spudded: **12-12-61** Date total depth reached: **2-10-62** Date completed, ready to produce: **P & A 2-27-62** Elevation (DF, RKB, RT or Gr.): **5841** feet Elevation of casing hd. flange: **5841** feet

Total depth: **2947'** P.B.T.D.: **-** Single, dual or triple completion?: **-** If this is a dual or triple completion, furnish separate report for each completion.

Producing interval (s) for this completion: **-** Rotary tools used (interval): **0-2947** Cable tools used (interval): **-**

Was this well directionally drilled?: **No** Was directional survey made?: **No** Was copy of directional survey filed?: **-** Date filed: **-**

Type of electrical or other logs run (check logs filed with the commission): **Gamma Ray - Neutron** Date filed: **3-1-62**

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)						
Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Cond. Pipe	10"	8"		66'		
Lost Circ.	7-7/8"	5-9/16"	14.81	710'	60	
Lost Circ.	4-3/4"	4"	8.00	1936'	10	688'

TUBING RECORD

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
in.	ft.	ft.	in.	ft.	ft.		

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval

INITIAL PRODUCTION

Date of first production: \_\_\_\_\_ Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump): \_\_\_\_\_

Date of test	Hrs. tested	Choke size	Oil prod. during test	Gas prod. during test	Water prod. during test	Oil gravity
			bbls.	MCF	bbls.	* API (Corr)

Tubing pressure	Casing pressure	Cal'd rate of Production per 24 hrs.	Oil	Gas	Water	Gas-oil ratio
			bbls.	MCF	bbls.	

Disposition of gas (state whether vented, used for fuel or sold): \_\_\_\_\_

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Chief Engineer of the California Oil Co., West. Div. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Date: 9-9-64 Signature: [Signature]

Permit No. 175

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Well Completion or Recompletion Report and Well Log  
Form No. 4 File One Copy

**DETAIL OF FORMATIONS PENETRATED**

Formation	Top	Bottom	Description*
Upper Supai	845(+4996)	1463(+4378)	175
Ft. Apache	1463(+4378)	1537(+4304)	
Lower Supai	1537(+4304)	2438(+3403)	
NACO	2438(+3403)	TD	<p>Siltst., Red-Brn., HD., Dense, Calcareous, streaked, Mottled and laminate w/Gy and Grn. Clay and Choc. Clayst.</p> <p>LMST. - Gry, Lavender, Finely Crystalline, Argillaceous w/ thin interbeds of Dolo, Gry-WH, F-Med, Crystalline.</p> <p>w/Common Carbonaceous material and orange Detrital chert and mottling, interbedded and grdg. to Siltst. and sh., Red-Brn., HD., Calcareous.</p>



\* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

**INSTRUCTIONS:**

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.

Form No. 4

**PLUGGING RECORD**

Operator <b>California Oil Company, Western Division</b>		Address <b>P. O. Box 1076, Salt Lake City, Utah</b>	
Name of Lease <b>State</b>		Well No. <b>2519-1A</b>	Field & Reservoir <b>Holbrook Area</b>
Location of Well <b>1370' S/N Line &amp; 1320' E/W Line to location in center of NW 1/4, S. 12, T14N, R18E.</b>		Sec-Twp-Rge or Block & Survey <b>S. 12, T14N, R18E.</b>	County <b>Navajo</b>
Application to drill this well was filed in name of <b>California Oil Co., West. Div.</b>	Has this well ever produced oil or gas <b>No</b>	Character of well at completion (initial production): Oil (bbls/day) <b>None</b> Gas (MCF/day) <b>None</b> Dry? <b>None</b>	
Date plugged: <b>2-26-62</b>	Total depth <b>2947'</b>	Amount well producing when plugged: Oil (bbls/day) <b>None</b> Gas (MCF/day) <b>None</b> Water (bbls./day) <b>None</b>	
Name of each formation containing oil or gas. Indicate which formation open to well-bore at time of plugging	Fluid content of each formation	Depth interval of each formation	Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount cement.
<b>None</b>		<b>Coconino 65(+5776)</b>	<b>2457-2357' - 4 sackscement</b>
		<b>Upper Supai 794(+5047)</b>	<b>1950-1850' - 5 sacks cement</b>
		<b>Ft. Apache 1475(+4366)</b>	<b>750-650 - 11 sacks cement</b>
		<b>Lower Supai 1536(+4305)</b>	<b>surface - 5 sacks cement</b>
		<b>Naco 2414(+3427)</b>	<b>w/proper marker</b>

**CASING RECORD**

Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, ripped etc)	Packers and shoes
<b>8"</b>	<b>From KB 78"</b>		<b>66'</b>		
<b>5-9/16"</b>	<b>722'</b>		<b>722'</b>		
<b>4"</b>	<b>1940'</b>	<b>700'</b>	<b>1240'</b>	<b>cut</b>	
<b>2-7/8"</b>	<b>2407'</b>	<b>1900'</b>	<b>507'</b>	<b>cut</b>	

Was well filled with mud-laden fluid, according to regulations? **Yes**

Indicate deepest formation containing fresh water.  
**Coconino 794'**

**NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE**

Name	Address	Direction from this well:
<b>Aztec Land &amp; Cattle Co.</b>	<b>Korber Bldg., Albuquerque, N. Mexico</b>	<b>Sec. 1, 11, 13-N, S, W.</b>
<b>Caloil-West</b>	<b>P.O. Box 780, Denver, Colorado</b>	<b>Sec. 7, T19N, R14E.</b>

In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required.

Use reverse side for additional detail  
File this form in duplicate with the State of Arizona Oil & Gas Conservation Commission

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the **Div. Superintendent, Production Dept.** of the **California Oil Co., Western Div.** (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Date **MARCH 5, 1962**

*[Signature]*  
**R. L. GREEN**  
Signature

**STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION**

Plugging Record File two copies  
Form No. P-15  
Authorized by Order No. **4-6-59**  
Effective **April 6, 1959**

75

**APPLICATION TO ABANDON AND PLUG**

FIELD Holbrook Area  
 OPERATOR California Oil Co., Western Division ADDRESS P. O. Box 1076, Salt Lake City, Utah  
 LEASE State WELL NO. 2519-1A COUNTY Navajo  
 SURVEY \_\_\_\_\_ SECTION #12 DRILLING PERMIT NO. 175  
 LOCATION 1370' from the North line, and 1320' from the West line to location in center of the NW 1/4 of Section 12, T14N, R18E.

TYPE OF WELL Dry Hole TOTAL DEPTH 2947'  
(Oil, Gas or Dry Hole)  
 ALLOWABLE (If Assigned) \_\_\_\_\_  
 LAST PRODUCTION TEST OIL \_\_\_\_\_ (Bbls.) WATER \_\_\_\_\_ (Bbls.)  
 GAS \_\_\_\_\_ (MCF) DATE OF TEST \_\_\_\_\_

PRODUCING HORIZON \_\_\_\_\_ PRODUCING FROM \_\_\_\_\_ TO \_\_\_\_\_  
 1. COMPLETE CASING RECORD 8" conductor set at 66' not cemented  
5-9/16" 14.81# cemented at 722' with 60 sacks construction cement  
4" 8# hung at 1940' not cemented  
2-7/8" 6# hung at 2407' not cemented

2. FULL DETAILS OF PROPOSED PLAN OF WORK Plug & abandon subject well per telephone conversation of 2-21-62 - Hull to Jerome.

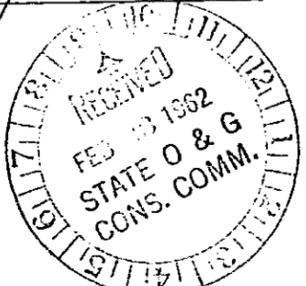
1. Bridge hole across shoe of 2-7/8" casing at 2407' from 2457' to 2357' with four sacks cement.
2. Cut & recover 2-7/8" casing from 1900'+. Bridge hole 1950-1850 across 2-7/8" casing stub at 1900' with 5 sacks cement.
3. Cut & recover 4" casing from 700'+. Bridge across stub of 4" casing from 750' to 650' with 11 sacks cement.
4. Bridge hole with cement from 50' to surface with 6 sacks cement. Install marker and abandon well. Release drilling contractor.

If well is to be abandoned, does proposed work conform with requirements of Rule 202? \_\_\_\_\_ If not, outline proposed procedure above.

DATE COMMENCING OPERATIONS February 21, 1962  
 NAME OF PERSON DOING WORK Boyles Bros. Drilg. Co. ADDRESS 1624 Pioneer Road Salt Lake City 10, Utah  
 CORRESPONDENCE SHOULD BE SENT TO California Oil Company, Western Division

NAME R. L. GREEN  
 TITLE Division Superintendent, Production Dept.

Date Approved 3/5/62



STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION  
*Brooks Puro - Petroleum Geologist*  
 STATE OF ARIZONA  
 OIL & GAS CONSERVATION COMMISSION  
 Application to Abandon and Plug  
 Form No. 15A File 2 Copies  
 Authorized by Order No. 4-8-59  
 Effective April 6, 1959

OIL AND GAS CONSERVATION COMMISSION  
STATE OF ARIZONA

Form OG 51

Form Prescribed Under Oil and Gas Conservation Act of 1951

NOTICE OF INTENTION TO DRILL NEW WELL

This notice and surety bond must be filed and permit must be granted before drilling begins

Oil and Gas Conservation Commission Phoenix Arizona Dec. 11, 1961

In compliance with Statewide Rule 3, notice is hereby given that it is our intention to commence the work of drilling well No. STATE 2519 #1-A Sec. 12

Twp. 14 N Rge. 18 E ~~G&SRM~~ Holbrook Basin Area ~~XXXXX~~

Navajo County.

Legal description of lease Arizona State Lease #2519, Sec. 12, T. 14 N., R. 18 E., G&SRM  
(attach map or plat to scale)

Location of Well. 1370' from the North line, and 1320' from the West line to location in the  
(Give exact footage from section corners or other

Center of the NW $\frac{1}{4}$  of Section 12, T. 14 N., R. 18 E., Navajo County.  
(legal subdivisions or streets) Well #1-A to be located approximately 50' South of State 2519 #1,  
which is being abandoned because of mechanical difficulties.

Proposed drilling depth 3400 feet. Acres in drilling unit no drilling unit

Has surety bond been filed? Yes. Is location a regular or exception to spacing rule? Regular

Elevation of ground above sea level 5830.0 feet.

All depth measurements taken from top of Kelly Bushing  
(Derrick, floor, Rotary Table or

which is 2 (est.) feet above the ground.  
(Kelly Bushing)

PROPOSED CASING PROGRAM

Size of Casing Inches A. P. I.	Weight	Grade & Type	Top	Bottom	Cementing Depth
<u>5<math>\frac{1}{2}</math></u>	-	-	-	-	<u>120</u>

Intended Zone or Zones of completion:

Name Naco, Redwall, Martin Perforated Interval -

AFFIDAVIT

I hereby certify under the penalty of perjury, that the information contained and statements herein made are to the best of my knowledge and belief, true, correct and complete.

CALIFORNIA OIL COMPANY, Western Division  
(Applicant)

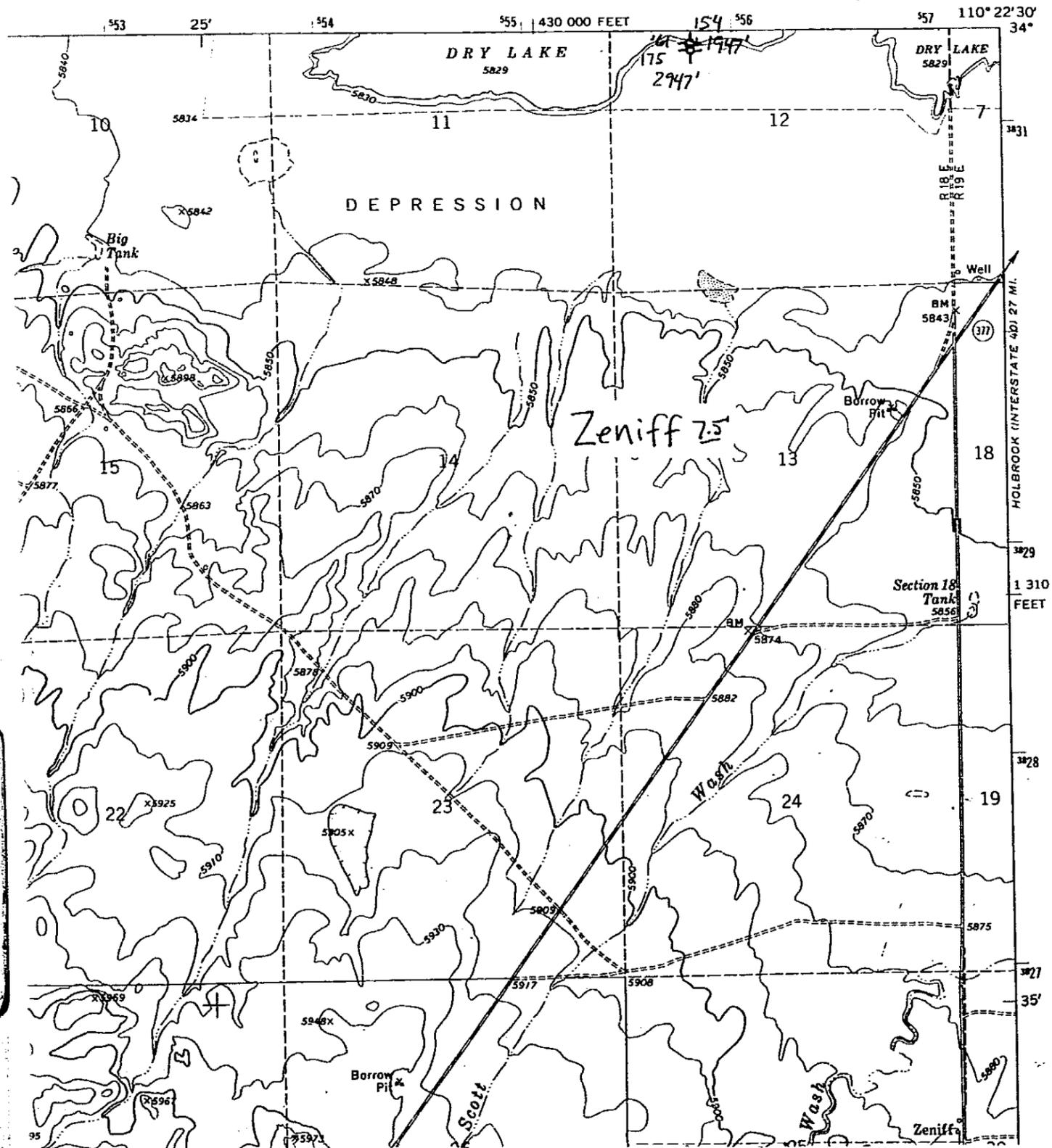
Application approved this 2 day of January 1962  
By R. L. GREEN, Div. Prod. Sup't.

Permit No. 175  
3-62 1/10/58

R. L. Green  
Oil and Gas Conservation Commission

195

ZENIFF QUADRANGLE  
ARIZONA-NAVAJO CO.  
7.5 MINUTE SERIES (TOPOGRAPHIC)



PAUL FANNIN  
GOVERNOR

R. KEITH WALDEN  
CHAIRMAN

LYNN LOCKHART  
VICE CHAIRMAN

CHARLES KALIL, M. D.  
MEMBER

ROBERT B. HEWARD  
MEMBER

ORME LEWIS  
MEMBER



OFFICE OF

Oil and Gas Conservation Commission  
STATE OF ARIZONA

3500 N. CENTRAL - SUITE 221

Phoenix 12, Arizona

CR 9.3397 CR 9-2731

August 30, 1962

*File*  
*al 1-A*  
D. A. JEROME  
EXECUTIVE SECRETARY

Rocky Mountain Well Log Service  
1753 Champa Street  
Denver, Colorado

Gentlemen:

I have Gamma Ray-Neutron logs of the following two wells:

- 1 - California Oil Co. State 2519 #1
- 2 - California Oil Co. State 2519 #1-A

These wells are both located in Section 12, T14N, R18E, Navajo County, Arizona.

I wish to obtain a copy of all other logs run on these two wells.

Yours truly,

*John K. Petty*  
John K. Petty  
Petroleum Geologist

*Sorry, no other survey on  
either well.*

August 13, 1962

California Oil Company  
Western Division  
P. O. Box 780  
Denver 1, Colorado

Re: Blanket Drilling Bond

Attention: C. Quinn

Gentlemen:

Since you have satisfactorily accomplished all requirements set forth in the Arizona State Oil and Gas Conservation Commission rules and regulations as regards your blanket drilling bond that you mention in your letter of July 27, 1962, we herewith release you from any of its requirements.

Hoping you'll drill some successful wells in Arizona in the future, I am

Yours truly,

John K. Petty  
Petroleum Geologist

July 30, 1962

California Oil Company  
Western Division  
P. O. Box 1076  
Salt Lake City, Utah

Attn: Mr. R. L. Green, Division Superintendent

Re: Core Descriptions, etc. on California Oil Co. #2519 - 1A  
Sec. 12, T14N, R18E, Navajo County, Arizona

Gentlemen:

During the July 25 meeting of the commissioners of the Arizona State Oil and Gas Conservation Commission, it was mentioned that I obtain a copy of the core descriptions and a sample description of the interval not cored if we had none in the commission file.

Since I do not find either in our files, I will thank you very much if you will send me this data as well as the coring time and drilling time on this project.

Assuring you that we hope you will drill a successful test and soon in this State, we remain

Yours truly,

John K. Petty  
Petroleum Geologist



# CALIFORNIA OIL COMPANY

WESTERN DIVISION  
1700 BROADWAY • P. O. BOX 780 • DENVER 1 • COLORADO

In reply refer to  
C. Quinn

July 27, 1962

## BLANKET DRILLING BOND

Arizona State Land Department  
State Office Building  
Phoenix, Arizona

Gentlemen:

California Oil Company is the holder of a blanket drilling bond for the State of Arizona (400 FV 3293), with St. Paul Fire and Marine Insurance Company as surety. This bond will expire August 24, 1962 and because of the fact that at the present time California Oil Company has no plans for further drilling in Arizona we ask that you forward to this office a release of subject bond in order that same may be forwarded to our surety.

If there is any further information required in connection with termination of this bond, please advise.

Yours very truly,

*Catherine Quinn*

CQ:em

*Gentlemen:*

*Since you have <sup>satisfactorily</sup> accomplished all requirements <sup>set forth in</sup> Arizona State Oil & Gas Conservation Commission rules and regulations <sup>as</sup> regarding your blanket drilling bond you mention in your letter of July 27, 1962, we herewith release you from any of its*

*175 requirements. Hoping you'll ~~also~~ drill some successful wells in Ariz in the future I am*

12033



March 5, 1962

California Oil Company  
Western Division  
P. O. Box 1076  
Salt Lake City, Utah

Attn: R. L. Green, Div. Superintendent

Re: California Oil Co. State No. 2519-1A in  
Section 12, T 14 N, R 18 E, Navajo County

Gentlemen:

Enclosed is an approved application to abandon  
and plug the above described test for your office  
records.

We trust your other Arizona ventures in this field  
will be successful.

Yours very truly,

D. A. JEROME, EXECUTIVE SECRETARY

by Brooks Pierce  
Petroleum Geologist

enc 1

January 8, 1962

California Oil Company, Western Division  
P. O. Box 1076  
Salt Lake City, Utah

Re: California Oil Co. State 2519 #1-A, Sec. 12,  
T14N, R18E, Navajo County

Gentlemen:

Enclosed is your approved copy of Form OG 51,  
Notice of Intention to Drill New Well, on the  
above mentioned test.

Best wishes on this venture.

Yours very truly,

Brooks Pierce  
Petroleum Geologist

hmc  
enc 1