

CONFIDENTIAL

Release Date

9-18-77

SECRET

UNION OIL OF CALIF. #1-P 4 NAV.
SE SE Sec. 4-T36N-R29E APACHE CO. 549

sl

COUNTY Apache AREA 3/4 Mi/ S/Cove LEASE NO. NOO-C-14-20-3741

WELL NAME Union Oil Company of California #1-P 4 Navajo

LOCATION SE SE SEC 4 TWP 36N RANGE 29E FOOTAGE 660' FSL - 550' FEL

ELEV 6571' GR 6584 KB SPUD DATE 3-6-71 STATUS P&A TOTAL
COMP. DATE 3-18-71 DEPTH 3022'

CONTRACTOR

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY	<u>X</u>
<u>8 5/8"</u>	<u>343'</u>	<u>250 SK</u>		DRILLED BY CABLE TOOL	
				PRODUCTIVE RESERVOIR	<u>Wildcat</u>
				INITIAL PRODUCTION	<u>P&A</u>

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Shinarump	400'		X	Well plugged and abandoned as follows:
De Chelly	507'			100 sacks 3020-2750'
Supai	1116'			40 sacks 2300-2200'
Ismay	2276'			100 sacks 1200-1000'
Desert Creek	2376'			
Ikah	2428'			
Upper Barker Creek	2612'			Plugged to allow conversion to water well
Lower Barker Creek	2772'			as per instructions of U.S.G.S.
Alkali Gulch	2924'			
Molas	2932'			
Redwall	2948'			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG	AM STRAT
<u>Dual Induction -Laterolog</u>	<u>NA</u>	<u>NA</u>	SAMPLE DESCRP.	
<u>Formation Density, Neutron</u>			SAMPLE NO. <u>1658</u>	
<u>Porosity</u>			CORE ANALYSIS <u>X</u>	
			DSTs <u>X</u>	

REMARKS	APP. TO PLUG	<u>X</u>
	PLUGGING REP.	<u>X</u>
	COMP. REPORT	<u>X</u>

WATER WELL ACCEPTED BY _____

BOND CO. St. Paul Fire & Marine Insurance BOND NO. #400 CX 6470

BOND AMT. \$ 5,000 CANCELLED _____ DATE _____ ORGANIZATION REPORT 1-29-75

FILING RECEIPT 2883 LOC. PLAT X WELL BOOK X PLAT BOOK X

API NO. 02-001-20138 DATE ISSUED 3-8-71 DEDICATION E/2 SE/4

PERMIT NUMBER 549

(over)

CONFIDENTIAL
Released - 9-18-71

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 Union Oil Company of California		Address P. O. Box 2620 - Casper, Wyoming 82601	
Federal, State or Indian Lease Number or name of lessor if fee lease NOO-C-14-20-3741 Navajo 3741		Well Number 1-P-4	Field & Reservoir Wildcat
Location 660' FSL & 550' FEL (E/2 SE)		County Apache County, Arizona	
Sec. TWP-Range or Block & Survey Sec. 4, T. 36 N., R. 29 E.			
Date spudded 3-6-71	Date total depth reached 3-16-71	Date completed, ready to produce P&A 3-18-71	Elevation (DF, RKB, RT or Gr.) 6584' KB feet
Elevation of casing hd. flange 6571' GR feet			
Total depth 3022' TD	P.B.T.D. - - -	Single, dual or triple completion? single	If this is a dual or triple completion, furnish separate report for each completion.
Producing interval (s) for this completion None		Rotary tools used (Interval) 0-TD	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) Dual Ind-LL, FDC, SNP			Date filed To be filed.

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
Surface	12-1/4"	8-5/8"	24#	343'	250	- -

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 Dry Hole		Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:) Plugged and Abandoned 3-18-71				
Date of test	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity * API (Corr)
Tubing pressure	Casing pressure	Cal'ed rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio

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 District Drilling Supt. of the Union Oil Company of California (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 3-23-71 Signature A. T. Mannon, Jr.

RECEIVED MAR 25 1971 O & G CONS. COMM.	STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Well Completion or Recompletion Report and Well Log Form No. 4 File One Copy
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Permit No. **549**

(Complete Reverse Side)

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*						
			549						
			<p>Core #1: 2816-2830'</p> <p>DST #1: 2786-2830'. Open w/fair blow increasing to 12" in 10 min. SI 60 min. Open w/good blow increasing to 12" and decreasing to fair in 60 min. S.I. 120 min. Recovered 30' drilling mud. IFP 39 psi, ISIP 143 psi, FFP 39 psi, FSIP 312 psi. Tool sample 2200 cc drilling mud. No oil. No gas. Mud res. 1.94 @ 58°, Filt. res 1.42 @ 58°, Chl. 1350 ppm.</p> <p>DST #2: 2783-2820'. Open 240 min, SI 130 min, open 90 min. Open with 6" blow increasing to 8", decreasing to 5" in 50 min, decreasing to 1-1/2" in 137 min. and steady remainder of test. Second open w/6" blow decreasing to 2" in 53 min. Rec. 30' drilling mud. IHP 1331, IFP 26-39, ISIP 188 psi, FFP 39, FHP 1318, BHT 90°.</p>						
	Co	ARIST							
Shinarump	400'	400' - Basal Triassic st							
De Chelly	507'	554							
Supai	1116'	1122 - Organ Rock							
Ismay (Top Penn)	2276'	2230 Phv							
Desert Creek	2376'	2418' Phi							
A? Ikah	2428'	2580							
Upper Barker Ck	2612'								
Lower Barker Ck	2772'	2773 Phlo							
Alkali Gulch	2924'								
Molas	2932'	2920 Pm							
Redwall	2948'	2980 Miss - good E.L. Kirk							
			<p>Well plugged and abandoned as follows:</p> <table border="0"> <tr> <td>100 sacks</td> <td>3020-2750'</td> </tr> <tr> <td>40 sacks</td> <td>2300-2200'</td> </tr> <tr> <td>100 sacks</td> <td>1200-1000'</td> </tr> </table> <p>Welded on cap and dry hole marker. Plugged to allow conversion to water well as per instructions of U.S.G.S.</p> <p>Well plugged and abandoned on March 18, 1971.</p>	100 sacks	3020-2750'	40 sacks	2300-2200'	100 sacks	1200-1000'
100 sacks	3020-2750'								
40 sacks	2300-2200'								
100 sacks	1200-1000'								

* 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.

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS

Bond Serial No. 400 CX 6470

That we: UNION OIL COMPANY OF CALIFORNIA

of the County of Los Angeles in the State of California

as principal, and ST. PAUL FIRE AND MARINE INSURANCE COMPANY

of St. Paul, Minnesota

AUTHORIZED TO DO BUSINESS WITHIN the State of Arizona.

as surety, are held and firmly bound unto the State of Arizona and the Oil and Gas Conservation Commission, hereinafter referred to as the "Commission", in the penal sum of \$5,000.00 lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The conditions of this obligation are that, whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State, to-wit:

For the drilling of the Navajo 3741 No. 1-P-4 well in the SE 1/4 SE 1/4 of Section 4, Township 36 North, Range 29 East, Apache Cty., Arizona.

(May be used as blanket bond or for single well)

NOW, THEREFORE, if the above bounden principal shall comply with all the provisions of the Laws of this State and the rules, regulations and orders of the Commission, especially with reference to the requirements of A.R.S. § 27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil and Gas Conservation Commission all notices and records required by said Commission, then in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, this obligation is void; otherwise it shall remain in full force and effect.

Whenever the principal shall be, and declared by the Oil and Gas Conservation Commission in violation of the Laws of this State and the rules, regulations and orders of the Commission, the surety shall promptly:

- 1. Remedy the violation by its own efforts, or
2. Obtain a bid or bids for submission to the Commission to remedy the violation, and upon determination by the Commission and the Surety of the lowest responsible bidder, arrange for a contract between such bidder and the Commission, and make available as work progresses sufficient funds to pay the cost of remedying the violation; but not exceeding, including other costs and damages for which the surety may be liable hereunder, the amount set forth in the first paragraph hereof.

Liability under this bond may not be terminated without written permission of this Commission.

WITNESS our hands and seals, this 5 day of March 3-26-76 1971

UNION OIL COMPANY OF CALIFORNIA

WITNESS our hands and seals this 5th day of March 1971
Joseph L. Wilson
Attorney-in-Fact

RECEIVED

MAR 15 1971

O & G CONS. COMM.

ST. PAUL FIRE and MARINE INSURANCE COMPANY

BY: Joyce Skaggs, Attorney-in-fact

LEITH, CHARLES & LAIBACH, INC.

(If the principal is a corporation, the bond should be executed by its duly authorized agent, the seal of the corporation affixed. When principal or surety executes this bond by agent, power of attorney or other evidence of authority must accompany the bond.)

Approved Date 3-15-71
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Bond

File Two Copies

Form No. 2

Permit No. 549

Cl

(Capital Stock Company)

CERTIFIED COPY OF POWER OF ATTORNEY
Original on File at Home Office of Company. See Certification.

**FIDELITY AND SURETY
DEPARTMENT**

**ST. PAUL
FIRE and MARINE
Insurance Company**
HOME OFFICE: ST. PAUL, MINNESOTA

KNOW ALL MEN BY THESE PRESENTS: That the St. Paul Fire and Marine Insurance Company, a corporation organized and existing under the laws of the State of Minnesota, and having its principal office in the City of Saint Paul, Minnesota, does hereby constitute and appoint

Warren L. Knutsen, Joyce Skaggs, David E. Johnston,
individually, Denver, Colorado

its true and lawful attorney(s)-in-fact to execute, seal and deliver for and on its behalf as surety, any and all bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, which are or may be allowed, required or permitted by law, statute, rule, regulation, contract or otherwise, and the execution of such instrument(s) in pursuance of these presents, shall be as binding upon the said St. Paul Fire and Marine Insurance Company, as fully and amply, to all intents and purposes, as if the same had been duly executed and acknowledged by its regularly elected officers at its principal office.

This Power of Attorney is executed, and may be certified to and may be revoked, pursuant to and by authority of Article V, -Section 6(C), of the By-Laws adopted by the Board of Directors of the ST. PAUL FIRE AND MARINE INSURANCE COMPANY at a meeting called and held on the 23rd day of January, 1970, of which the following is a true transcript of said Section 6(C).

"The President or any Vice President, Assistant Vice-President, Secretary or Resident Secretary, shall have power and authority

- (1) To appoint Attorneys-in-fact, and to authorize them to execute on behalf of the Company, and attach the Seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, and
- (2) To appoint Special Attorneys-in-fact, who are hereby authorized to certify to copies of any power-of-attorney issued in pursuance of this section and/or any of the By-Laws of the Company, and
- (3) To remove, at any time, any such Attorney-in-fact or Special Attorney-in-fact and revoke the authority given him."

Further, this Power of Attorney is signed and sealed by facsimile pursuant to resolution of the Board of Directors of said Company adopted at a meeting duly called and held on the 6th day of May, 1959, of which the following is a true excerpt:

"Now therefore the signatures of such officers and the seal of the Company may be affixed to any such power of attorney or any certificate relating thereto by facsimile, and any such power of attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by facsimile signatures and facsimile seal shall be valid and binding upon the Company in the future with respect to any bond or undertaking to which it is attached."

IN TESTIMONY WHEREOF, the St. Paul Fire and Marine Insurance Company has caused this instrument to be signed and its corporate seal to be affixed by its authorized officer, this 19th day of February A. D. 19 70

STATE OF MINNESOTA }
County of Ramsey } ss.

ST. PAUL FIRE AND MARINE INSURANCE COMPANY

CANCELLED
3-26-76
DATE

On this 19th day of February 19 70, before me came the individual who executed the preceding instrument, to me personally known, and, being by me duly sworn, said that he is the therein described and authorized officer of the St. Paul Fire and Marine Insurance Company; that the seal affixed to said instrument is the Corporate Seal of said Company; that the said Corporate Seal and his signature were duly affixed by order of the Board of Directors of said Company.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal, at the City of Saint Paul, Minnesota, the day and year first above written.

C. L. JAEGER
Notary Public, Ramsey County, Minn.
My Commission Expires June 2, 1974.

CERTIFICATION

I, the undersigned officer of the St. Paul Fire and Marine Insurance Company, do hereby certify that I have compared the foregoing copy of the Power of Attorney and affidavit, and the copy of the Section of the By-Laws of said Company as set forth in said Power of Attorney,* with the ORIGINALS ON FILE IN THE HOME OFFICE OF SAID COMPANY, and that the same are correct transcripts thereof, and of the whole of the said originals, and that the said Power of Attorney has not been revoked and is now in full force and effect.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 5th day of March 19 71

RECEIVED

MAR 15 1971

O & G CONS. COMM.

*Unlimited as to character and amount.

March 26, 1976

Mr. Roger M. Nestler
Supervisor
The St. Paul Companies
Chicago, Service Center
100 South Wacker Drive
Chicago, Illinois 60606

RE: St. Paul Fire & Marine Insurance Co.
Bond No. 400 CX 6479
No. 1P-4X Navajo
Section 4-36N-29E
Apache County, AZ

Dear Mr. Nestler:

Union Oil Company of California has complied with all the
rules and regulations of this Commission.

The letter is your authorization to cancel the above
referenced bond.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/sl

549

Union Oil & Gas Division Central Region
Union Oil Company of California
300 North Carrizo St., P.O. Box 3100, Midland, Texas 79701
Telephone (915) 684-8231

UNION ⁷³

March 24, 1976

Oil and Gas Conservation Commission
State of Arizona
8686 N. Central, Suite 106
Phoenix, Arizona 85020

Attention: Mr. W. E. Allen,
Director
Enforcement Section

Gentlemen:

St. Paul Fire & Marine Insurance Co.
Bond No. 400 CX 6470
No. 1P-4X Navajo
Section 4-36N-29E
Apache County, Arizona

We would appreciate your authorizing the cancellation of the captioned bond.
The No. 1P-4X Navajo well was plugged and abandoned and the lease was re-
leased, therefore, the bond is no longer needed.

Very truly yours,

Elwood L. Hisey
Elwood L. Hisey
Supervisor of Leases

ELH/jh
cc: Mr. Bruce Broussard - Palatine
Mr. R. H. Massey - Casper

#549

RECEIVED
MAR 26 1976
O & G CONS. COMM.

March 18, 1976

Union Oil Company of California
P. O. Box 2620
Casper, WY

Attention: A. T. Mannon, Jr.

RE: Union Oil Company #1P-4X Navajo
Sec. 4, T36N, R29E, Apache County
Bond #400 CX 6470

Dear Mr. Mannon:

We have been advised by the St. Paul Companies that you no longer need the above referenced bond. If you desire this bond to be cancelled, please advise this Commission and we will immediately authorize the cancellation of the subject bond.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/si

cc: Robert M. Nestler, The St. Paul Companies

#549

**THE ST. PAUL
COMPANIES**



Serving you around the world... around the clock

CHICAGO SERVICE CENTER
100 SOUTH WACKER DRIVE
CHICAGO, ILLINOIS 60606
PHONE 312-443-4000

March 10, 1976

State of Arizona
Oil & Gas Conservation Commission
Phoenix, Arizona

Re: Union Oil Co. of Calif., As Principal
Bond # 400 CX 6470
For the drilling of the Navajo
3741 No. 1-P-4 well in the
3E $\frac{1}{4}$ x SE $\frac{1}{4}$ of Section 4, Township 36
North, Range 29 East, Apache City, Arizona

Gentlemen:

We have been informed by the above mentioned principal that he no longer needs the above mentioned bond. If this is correct, would you please acknowledge the release of our (St. Paul Fire & Marine Insurance Co.) liability on the above mentioned bond?

Sincerely yours,

Roger M. Nestler
Supervisor

sb

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MAR 10 1976

O & G CONS. COMM.

#549



THE NAVAJO TRIBE

WINDOW ROCK, NAVAJO NATION, (ARIZONA) 86515

PETER MacDONALD
CHAIRMAN, Navajo Tribal Council

WILSON C. SKEET
VICE CHAIRMAN, Navajo Tribal Council

April 13, 1971

W. E. Allen, Director
Enforcement Section
Oil and Gas Conservation Commission
4515 North 7th Avenue
Phoenix, Arizona 85013

THRU:
P. K. Hurlbut, Director
Minerals Department
The Navajo Tribe
Post Office Box 146
Window Rock, Arizona 86515

Re: Union Oil of California #1-p-4x
Navajo
SE/4 SE/4 sec. 4 - T36N-R29E
Apache County, Arizona

Dear Mr. Allen:

We have received your request for approval and acceptance of the above well located near Cove, Arizona. We investigated the procedure used for plugging the well and are in approval of it. Therefore, the Water Development Department of the Navajo Tribe agrees to assume the responsibility of the well for possible use in the future by residents of the Cove area.

Thank you.

Sincerely yours,

THE NAVAJO TRIBE

Cato M. Sells P.D.

Cato M. Sells
Superintendent
Water Development Department

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APR 15 1971

O & G CONS. COMM.

49

W. E. Allen

Page two

April 13, 1971

CONCURRED:


Perry K. Hurlbut, Director
Minerals Department



THE NAVAJO TRIBE

MINERALS DEPARTMENT
P.O. BOX 146
WINDOW ROCK, ARIZONA
86515
PHONE: 602 - 871 - 4171

April 12, 1971

Mr. W.E. Allen, Director
Enforcement Section
Oil and Gas Conservation Commission
4515 North 7th Ave.
Phoenix, Arizona 85013

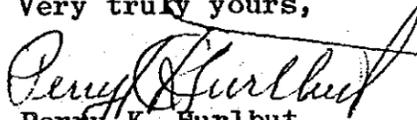
Dear Mr. Allen:

Thank you for your letter of April 9, 1971.

The Minerals Department has no jurisdiction over water wells or water problems. Your letter of March 22, 1971, was sent to Mr. Cato Sells, Water Development, Fort Defiance, Arizona. We also talked with him by phone and suggested this reply.

Your letter of April 9 will likewise be transmitted to Mr. Sells. As a follow up we will call by phone and again bring this matter to his attention.

Very truly yours,


Perry K. Hurlbut
Minerals Supervisor

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APR 14 1971
O & G CONS. COMM.

549

April 9, 1971

Mr. P. K. Hurlbut
The Navajo Tribe
P. O. Box 146
Window Rock, Arizona 86515

Re: Union Oil of California #1-p-4X
Navajo
SE/4 SE/4 Sec. 4-T36N-R29E
Apache County
Our File #549

Dear Mr. Hurlbut:

Please refer to our letter of March 22, 1971 requesting a memo for our files indicating your approval and acceptance of the above well to be used as a water well.

If it is the policy of your department not to furnish this information, please advise this office.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA:jd

WR

Document Transmittal
Union Oil Company of California



Date		No.	
3/23/71			
To	Mr. John Bannister State of Arizona	At	1624 W. Adams - Room 202 Phoenix, Arizona 85007
From	Clarence L. Harr UNION OIL CO. OF CALIFORNIA	At	P. O. Box 3372 Durango, Colorado 81301

Transmitting the following:

1 copy	COMPENSATED FORMATION DENSITY LOG		
1	"	SIDEWALL NEUTRON POROSITY LOG	
1	"	DUAL INDUCTION-LATEROLOG	
UNION OIL COMPANY OF CALIFORNIA NAVAJO 3741 LUKACHUKAI #1-P-4 660' ESL & 550' FEL Sec. 4, T. 36N., R. 29E. APACHE COUNTY, ARIZONA			

PLEASE SIGN & RETURN ONE (1) COPY OF TRANSMITTAL.

RECEIVED

MAR 25 1971

O & G CONS. COMM.

March 22, 1971

Mr. P. K. Hurlbut
The Navajo Tribe
P. O. Box 146
Window Rock, Arizona 86515

Re: Union Oil of California #1-p-4X
Navajo
SE/4 SE/4 Sec. 4-T36N-R29E
Apache County
Our File #549

Dear Mr. Hurlbut:

We are in receipt of the plugging report of Union Oil of California on the above well. This report indicates that the well has been plugged in a manner which will allow its use as a water well. Would you please send us a memo for our files indicating your approval and acceptance of this well to be used as a water well.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA:jd

March 8, 1971

Mr. A. T. Mannon, Jr.
Union Oil Company of California
P. O. Box 2620
Casper, Wyoming

Re: Union Oil Company of California #1-P-4X
Navajo
SE/4 SE/4 Sec. 4-T36N-R29E
Apache County
Our File #549

Dear Mr. Mannon;

Enclosed is the approved Application for Permit to Drill, our Receipt No. 2883, a copy of the plat, and our Permit to Drill No. 549.

Also enclosed are miscellaneous instruction sheets pertaining to samples and reports required by this office.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA:jd
Enc.



Telegram

549

331P PST MAR 5 71 LB322 KC276

K DVB145 RT PDB 2 EXTRA FAX DENVER COLO 5 205P MST

W E ALLEN DIRECTOR, ENFORCEMENT SECTION

OIL & GAS CONSERVATION COMMISSION

STATE OF ARIZONA

4515 NO. 7TH AVE PHOENIX ARIZ

RE: OIL AND GAS DRILLING BOND

BE ADVISED THAT ST. PAUL FIRE AND MARINE INS CO. HAS ISSUED

\$5,000 PERFORMANCE BOND TO UNION OIL OF CALIF., 1860 LINCOLN

ST. DENVER, COLO. 80227, PRINCIPAL TO COVER THEIR DRILLING

OF THE NAVAJO 3741 A-P-4 WELL IN THE SE1/4 SE1/4 OF SECTION

4, TOWNSHIP 36N., R.29E. APACHE COUNTY, ARIZONA. EXECUTED

BOND WILL BE FORWARDED TO YOU FROM OUR PHOENIX SERVICE CENTER

NEXT WEEK.

JOYCE SKAGGS

ATTORNEY-IN-FACT

Handwritten signature

RECEIVED

MAR 08 1971

O & G CONS. COMM.

Handwritten initials

Handwritten number 85013

Handwritten notes: 271 5161 WEA, mh 4567 mail

W U
western union

Telegram

— SHT 2

DENVER, COLORADO.

\$5,000 1860 80227 3741 # P-4 SE1/4 SE1/4 36NR.29E .

RECEIVED

MAR 08 1971

O & G CONS. COMM.

March 2, 1971

Mr. A. T. Mannon, Jr.
Union Oil Company of California
P. O. Box 2620
Casper, Wyoming

Re: Union Oil Company of California #1-P-4X
Navejo
SE/4 SE/4 Sec. 4-T36N-R29E
Apache County, Arizona

Dear Mr. Mannon:

We have received your Application to Drill in Section 4, Township 36 North, Range 29 East. We also received your check in the amount of \$25 to cover the cost of the drilling permit.

By letter dated September 21, 1970, Mr. R. J. Morton, Supervisor of Leases for your company in Denver, requested that your drilling bond be cancelled. This request was granted on September 23, 1970, by notifying your Surety, St. Paul Fire and Marine Insurance Company, that you had fulfilled all obligations to the State of Arizona; and, therefore you were being released from all bonding obligations.

Before a permit can be issued for drilling the subject well, we must have received an approved drilling bond signed by an Arizona surety agent in the amount of \$5,000 for a single well or \$25,000 for any and all wells that you might decide to drill in the State of Arizona.

As quickly as this bond is received, we will issue the drilling permit.

Page 2
Mr. R. T. Mannon, Jr.
March 2, 1971

We also need a current Organization Report from your company to bring our files up to date.

You indicate that you wish this well to carry the number designation 1-P-4. Our files indicate that a drilling permit was issued to your company for a well carrying the same number designation in Section 4, Township 36 North, Range 29 East; therefore, we are adding the suffix X to your well number to lessen any confusion in this office.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA:jd
Enc.

ENDORSEMENT OF CHECK WILL CONSTITUTE RECEIPT. NO OTHER ACKNOWLEDGMENT NECESSARY.
PLEASE DETACH BEFORE DEPOSITING CASH DISCOUNT TAKEN CHECK AMOUNT

FOR

TO DRILL NAVAJO 3741 No. 1-P-4, LUKACHUKAI PROSPECT, APACHE COUNTY, ARIZONA
AFE NO. NR 1-1020.

\$25.00

RECEIVED

MAR 01 1971

549

O & G CONS. COMM.

July 14, 1971

Memo from W. E. Allen

Memo to: Union Oil of California #1-P-4 Navajo
SE/4 SE/4 Sec. 4-T36N-R29E
Apache County
Our File #549

On July 8, 1971, this location was inspected. A dry hole
marker was in place and the location was clean and level.

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIP NOTE
(Other instructions
verse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Union Oil Company of California

3. ADDRESS OF OPERATOR
P. O. Box 2620 - Casper, Wyoming 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
660' FSL & 550' FEL (E/2 SE)

5. LEASE DESIGNATION AND SERIAL NO.
N00-C-14-20-3741

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Navajo 3741

9. WELL NO.
1-P-4

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
Sec. 4, T. 36N., R. 29E.

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6571'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FELL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The subject well was plugged and abandoned as follows:

- 100 sacks - 3020-2750'
- 40 sacks - 2300-2200'
- 100 sacks - 1200-1000'

Welded on cap and dry hole marker.
Plugged to allow conversion to water well as per instructions of U.S.G.S.

Above procedure approved orally by P. T. McGrath, District Engineer, U.S.G.S., on 3-18-71.

Well plugged and abandoned on March 18, 1971.

18. I hereby certify that the foregoing is true and correct

SIGNED A. T. Mannon, Jr. TITLE District Drilling Supt. DATE 3-19-71

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions
verse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO. **N00-C-14-20-3741**

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Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Navajo 3741

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1-P-4

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NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input checked="" type="checkbox"/> Supplementary Well History	

(NOTE: Report results of multiple completion or Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled to 3022'. Ran DST No. 1 - 2786-2830'. Open with fair blow increasing to 12" in 10 mins. S.I. 60 min. Open with good blow increasing to 12" and decreasing to fair in 60 mins. S.I. 120 mins. Recovered 30' drilling mud. IFP 39 psi. ISIP 143 psi, FFP 39 psi, FSIP 312 psi. Tool sample 2200 cc drilling mud. No oil. No gas. Mud res. 1.94 at 58°, filt. res. 1.42 at 58°, Chl. 1350 ppm. Ran dual Ind-LL, FDC, & SNP logs. Ran DST No. 2 - 2783'-2820'. Open 240 mins, S.I. 130 mins., open 90 mins. Open with 6" blow increasing to 8", decreasing to 5" in 50 mins., decreasing to 2" in 53 mins. Recovered 30' drilling mud. IHP 1331, IFP 26-39, ISIP 188 psi, FFP 39, FHP 1318, BHT 90°.

18. I hereby certify that the foregoing is true and correct

SIGNED A. T. Mannon, Jr. TITLE District Drilling Supt. DATE 3-19-71

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

549

March 19, 1971

We have received the sample from the
Union Oil, #1-P-4 Navajo
Sec. 4-36N-29E
Apache Co. Ariz. (Permit # 549)

I also hope things will start looking up
for the oil industry.

FOUR CORNERS SAMPLE CUT ASSOCIATION
P. O. BOX 899
FARMINGTON, NEW MEXICO

March 17, 1971

Memo to Union Oil of Calif.
1-P-4 Navajo
File 549

From John Bannister

Formation tops are as follows:

Shinarump	350
De Chelly	530
Supai	1030
Ismay	2285
Desert Creek	2373
Akah	2466
Upper Barker Creek	2632
Lower Barker Creek	2775
Red Wall	2995
T.D.	3021

*Revised later
see Comp. Rpt.*

Drill stem test from 2786 to 2830 recovered 30' mud.

Well is now logging 8-5/8" surface pipe set to 343.

Hole is 7-7/8".

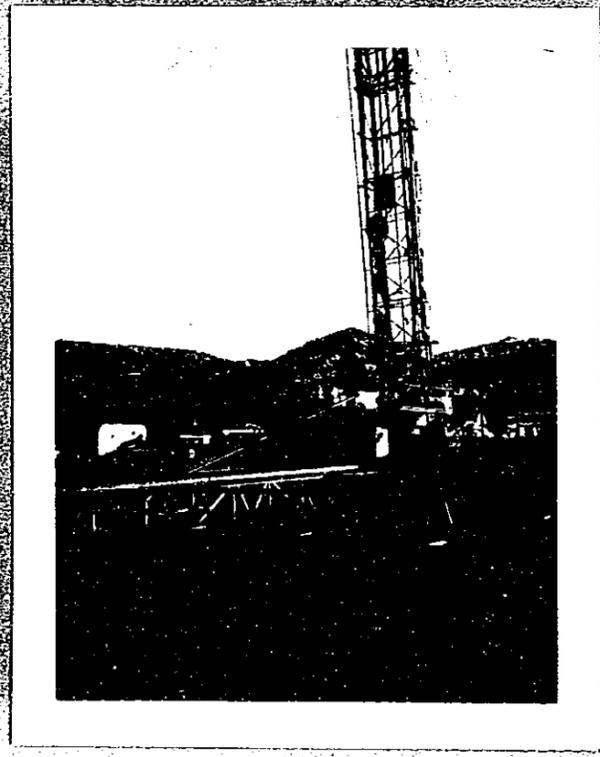
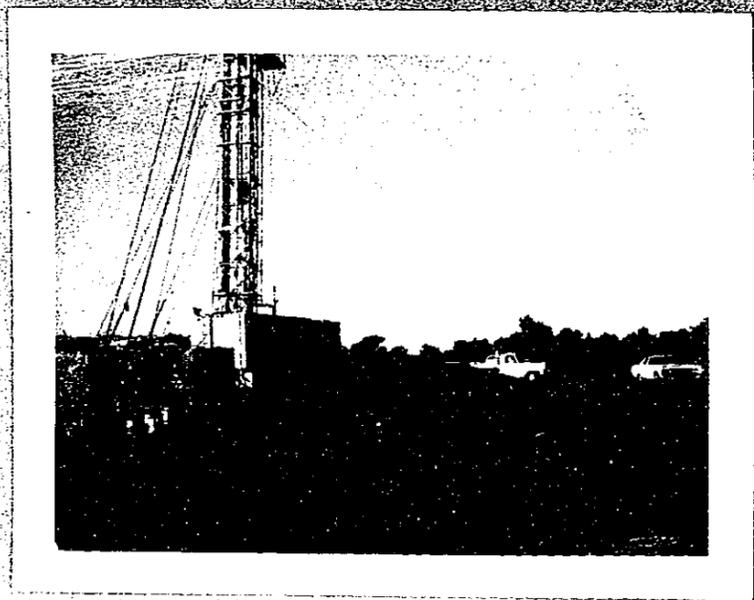
The following plugging program given verbal approval
and has also been approved by U.S.G.S.

1 plug from T.D. to 2750
plug from 2200 to 2300
plug from 300 to 400
and a 5-sack plug at surface

WELL SITE CHECK

Contractor Woffland Bros Drilling Co Person(s) Contacted By WBC
 Date 3-10-71
 Spud date 3-6-71 CONNIE FABAZZANI
 Type Rig Wilson Rotary Cable Geol. & Jim Perry Pushov
 Samples 10 ft Geological Trainer named Dennis
 Pipe 8" @ 343' w/ 250SKS was also present
 Water Zones _____ Present Operations Drilling
 Lost Circ. Zones None as yet 1552
 Formation Tops _____ Drilling with Air _____ Mud
 Cores, Logs, DST _____ Size Hole 7 7/8"
 _____ Size Drill Pipe 4"
 _____ Type Bit Button (Haynes J)
 _____ No. Bit 2 Drilling Rate 20' hr.
 _____ Formation Scipia
 _____ Lithology _____
 Crews 3-4 MEN

REMARKS, PHOTO, MAP



10 WELL NAME Union of Cal 1-P-4X

Permit No 549
Confidential: Yes No

Form 9-311
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLI
(Other instructions
verse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals.)

W/A

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

Union Oil Company of California

3. ADDRESS OF OPERATOR

P. O. Box 2620 - Casper, Wyoming 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface

660' FSL & 550' FEL (E/2 SE)

5. LEASE DESIGNATION AND SERIAL NO.

NOO-C-14-20-3741

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Navajo 3741

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Sec. 4, T. 36 N., R. 29 E.

14. PERMIT NO.

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6571'

12. COUNTY OR PARISH

Apache

13. STATE

Arizona

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

FULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Supplemental Well History

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Spudded well at 8:00 p.m. on 3-6-71.

Ran and cemented 15 joints, 8-5/8" OD, 24#, J-55, 8R, STC casing at 343' with 250 sacks regular 2% CaCl2. Cement circulated. Job complete 1:45 p.m. 3-7-71. Drilling at 450'. Incomplete.

RECEIVED

MAR 11 1971

O & G CONS. COMM.

18. I hereby certify that the foregoing is true and correct

SIGNED

A. I. Mannon, Jr.

TITLE District Drilling Supt.

DATE 3-8-71

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

549

9

March 8, 1971

Memo from W. E. Allen, Director
Enforcement Section

Memo to: Union Oil of California #1-P-4X Navajo
SE/4 SE/4 Sec. 4-T36N-R27E
Apache County
Our File #549

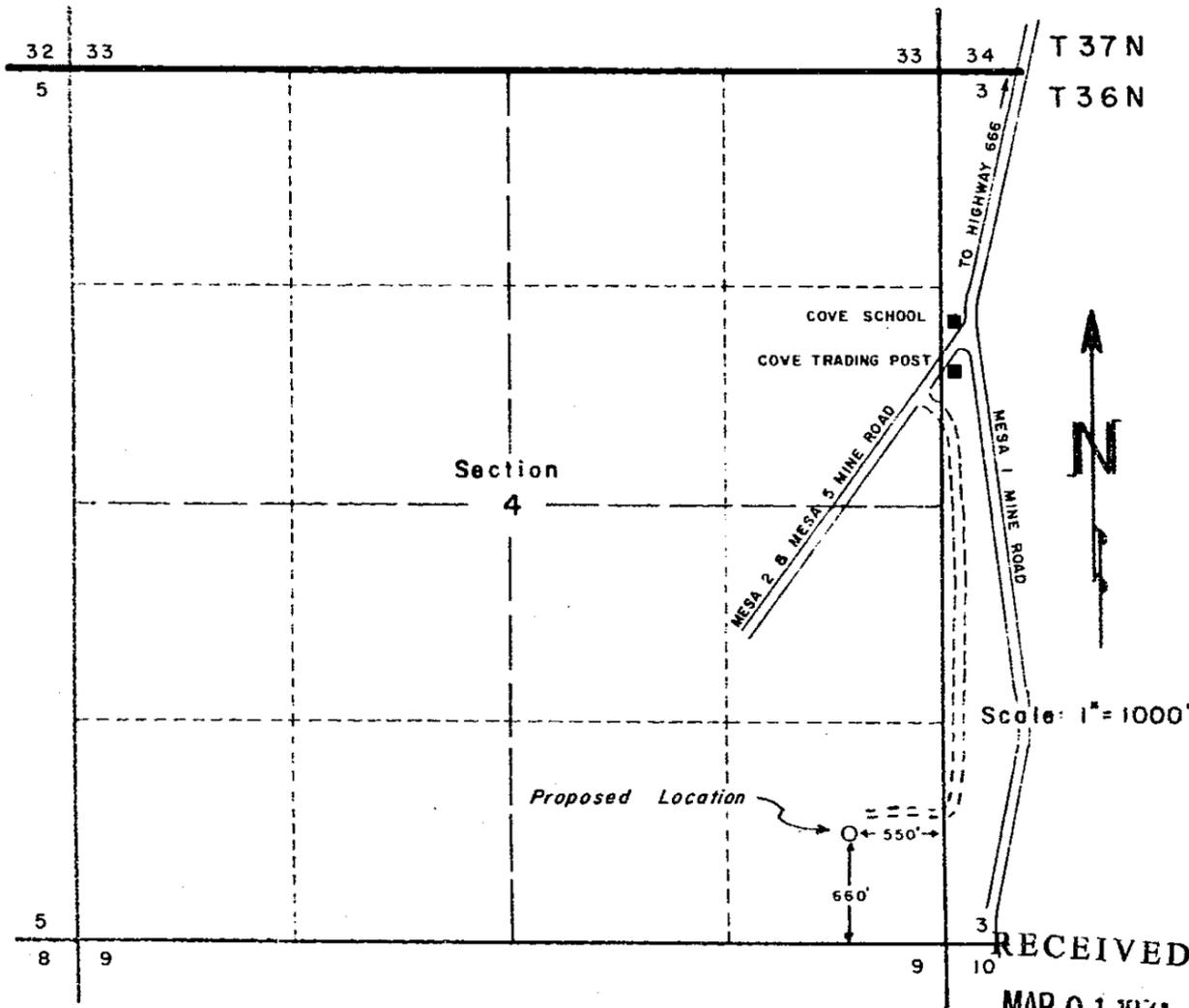
After receiving telephone evidence that Union Oil Company of California had applied for and received a drilling bond on St. Paul Fire and Marine Insurance Company for the drilling of the above referenced well, verbal permission was given to Mr. A. T. Mannon, Jr. to start drilling operations on March 6, 1971.

- Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
- A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
- All distances shown on the plat must be from the outer boundaries of the Section.
- Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES NO
- If the answer to question four is "no," have the interests of all the owners been consolidated by communization agreement or otherwise? YES NO If answer is "yes," Type of Consolidation _____
- If the answer to question four is "no," list all the owners and their respective interests below:

Owner Union Oil Company of California	Land Description Sec. 4, T. 36 N., R. 29 E., N.S.M.
Navajo N00-C14-20-3741	
<div style="border: 1px solid black; width: 100%; height: 100%; position: relative;"> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 2em;">4</div> <div style="position: absolute; bottom: 10%; right: 10%; font-size: 1.2em;"> 550' ↕ 660' </div> </div>	<p style="text-align: center; margin-top: 0;">CERTIFICATION</p> <p>I hereby certify that the information above is true and complete to the best of my knowledge and belief.</p> <p>Name _____</p> <p>Position District Drilling Supt.</p> <p>Company Union Oil Company</p> <p>Date February 18, 1971</p> <p>I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.</p> <p>Certified Plat attached</p> <p>Date Surveyed 2-10-71</p> <p>Registered Professional Engineer and/or Land Surveyor Fredrick H. Reed</p> <p>Certificate No. Arizona 5313</p>

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
8-5/8"	24#	K-55	0	350'	Total	250
5-1/2"	15.5#	K-55	0	3000'		150
(If productive)						



RECEIVED
MAR 01 1971

WELL LOCATION: Union Oil Company of California, Navajo 3741- No.1-P-4- Lukachukai O & G CONS. COMM.

Located 660 feet North of the South line and 550 feet West of the East line of Section 4,
Township 36 North, Range 29 East, Gila & Salt River Meridian,
Apache Co., Arizona
Existing ground elevation determined at 6571 feet based on U.S. B.I.A. datum.

I hereby certify the above plat represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief.

Frederick H. Reed
FREDERICK H. REED
Registered Land Surveyor
State of Arizona # 5313

549
Frederick H. Reed
2/10/71

UNION OIL COMPANY Denver, Colorado	
WELL LOCATION PLAT SEC. 4, T. 36 N., R. 29 E. Apache Co., Arizona	
CLARK-REED & ASSOC. Durango, Colorado	DATE: Feb. 8, 1971 FILE NO: 71013

13



PERMIT TO DRILL

This constitutes the permission and authority from the
OIL AND GAS CONSERVATION COMMISSION,
STATE OF ARIZONA,

To: UNION OIL COMPANY OF CALIFORNIA
(OPERATOR)

to drill a well to be known as

UNION OIL COMPANY OF CALIFORNIA #1-P-4 . NAVAJO
(WELL NAME)

located 660' FSL - 550' FEL

Section 4 Township 36N Range 29E APACHE County, Arizona.

The E/2 SE/4 of said
Section, Township and Range is dedicated to this well.

Said well is to be drilled substantially as outlined in the attached Application and must be drilled
in full compliance with all applicable laws, statutes, rules and regulations of the State of Arizona.

Issued this 8th day of MARCH, 19 71.

OIL AND GAS CONSERVATION COMMISSION

By John Bannister
EXECUTIVE SECRETARY

PERMIT No 549

RECEIPT NO. 2883
API WELL NO. 02-001-20138

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

SAMPLES ARE REQUIRED