

CONFIDENTIAL

Release Date 5-6-70

P-W

UNION #111 NAVAJO  
SE SW 11-36N-29E APACHE CO. 519

s1

COUNTY Apache AREA 2 mi SE/Cove LEASE NO. 14-20-0603-643 Navajo

WELL NAME Union #1<sup>N</sup> Navajo

LOCATION SE SW SEC 11 TWP 36N RANGE 29E FOOTAGE 660' FSL 1656' FWL  
ELEV 7183 GR 7197 KB SPUD DATE 10-20-69 STATUS P&A TOTAL DEPTH 3896'  
COMP. DATE 11-6-69

CONTRACTOR

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
<u>8 5/8</u>	<u>358'</u>	<u>220 SKS</u>	<u>NA</u>	<u>x</u>
				DRILLED BY CABLE TOOL
				PRODUCTIVE RESERVOIR
				INITIAL PRODUCTION <u>P&amp;A</u>

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Shinarump	735'	X	X	Telegraphic approval of change of location and permission to spud given 10-1-69.
DeChelly	897'			
Supai	1419'			
Hermosa	2578'			
Molas	3248'			
Red Well	3295'			
Ouray	3440'			
Elbert	3458			
McCracken	3621			
Aneth	3756			
Granite	3880			
Drill TD	3896			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG <u>Am Strat</u>
<u>DIL - 4; FDL-3; NPL-4</u>	<u>NA</u>	<u>NA</u>	SAMPLE DESCRP. SAMPLE NO. <u>1612</u> CORE ANALYSIS DSTs <u>1</u>

REMARKS \_\_\_\_\_

APP. TO PLUG x  
PLUGGING REP. x  
COMP. REPORT x

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

BOND CO. St. Paul Fire & Marine Insurance Co. BOND NO. 400CF 7948/15194  
BOND AMT. \$ 25,000 CANCELLED 10-30-70 DATE May 1-69  
FILING RECEIPT 2853 LOC. PLAT x WELL BOOK x PLAT BOOK x  
API NO. 02-001-20118 DATE ISSUED 10-7-69 DEDICATION Sw/4 Sec. 11

PERMIT NUMBER 579

(over)

CONFIDENTIAL

Release Date 5-6-70



## 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 1611 - Casper, Wyoming 82601

Federal, State or Indian Lease Number or name of lessor if fee lease: 282-14-20-06-3-643      Well Number: 1-N11      Field & Reservoir: Wildcat

Location: 660' FSL and 1656' FWL      County: Apache

Sec. TWP-Range or Block & Survey: Sec. 11, T36N, R29E SW/4

Date spudded: 10-20-69      Date total depth reached: 11-04-69      Date completed, ready to produce:      Elevation (DF, RKB, RT or Gr.): 7197' KB      Elevation of casing hd. flange: feet

Total depth: 3896'      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): 0-3896'      Cable tools used (Interval):

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

Type of electrical or other logs run (check logs filed with the commission): Dual Induction; Laterolog; Formation Density; Sidewall Neutron; Porosity      Date 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	358'	220	-0-

### TUBING RECORD

### LINER RECORD

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

### PERFORATION RECORD

### ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Am't. & 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:)				
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'ated rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio

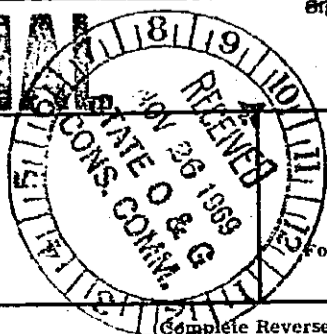
Disposition of gas (state whether vented, used for fuel or sold):

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the District Drilling Superintendent 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: November 24, 1969

Signature: *A. T. Mannon, Jr.*  
A. T. Mannon, Jr.

CONFIDENTIAL



STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Well Completion or Recompletion Report and Well Log  
File One Copy

Permit No. 519

10-7-69

Form No. 4

(Complete Reverse Side)

**DETAIL OF FORMATIONS PENETRATED**

Formation	Top	Bottom	Description*
Hermosa	3095'	3200'	DST #1: <sup>3095-3200'</sup> TO 10 min.; SI 30 min.; TO 60 min.; SI 90 min. Tool opened with strong blow, continued throughout test. Recovered 20' mud. IHP 1501; IFP 320-373; ISIP 878; FFP 320-373; FSIP 878; FHP 1475; BHT 95 <sup>o</sup> . <span style="float: right;"><i>non-flammable</i> 1.5 MMCFG.</span>
Shinarump	735'		Plugged and abandoned. 3800-3550' - 100 sx. cement 3150-3050' - 40 sx. cement 2625-2525' - 40 sx. cement 850- 680' - 75 sx. cement 10 sx. cement plug at surface. Welded steel plate on top 8-5/8" OD casing and installed dry hole marker.
De Chelly	897'		
Supai	1419'		
Hermosa	2578'		
Molas	3248'		
Red Well	3295'		
Ouray	3440'		
Elbert	3458'		
McCracken	3621'		
Aneth	3756'		
Granite	3880'		
Drlr TD	3896'		

*No core*

\* 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.

**PLUGGING RECORD**

Operator <b>Union Oil Company of California</b>		Address <b>P. O. Box 1611 - Casper, Wyoming 82601</b>	
Federal, State, or Indian Lease Number, or lessor's name if fee lease. <b>282-14-20-06-3-643</b>		Well No. <b>1-N11</b>	Field & Reservoir <b>Wildcat</b>
Location of Well <b>660' FSL and 1656' FWL - Section 11, T36N, R29E SW/4</b>		Sec-Twp-Rge or Block & Survey	County <b>Apache</b>
Application to drill this well was filed in name of <b>Union Oil Co. of California</b>	Has this well ever produced oil or gas <b>No</b>	Character of well at completion (initial production): Oil (bbbls/day)      Gas (MCF/day)      Dry? <b>Dry Hole</b>	
Date plugged: <b>November 6, 1969</b>	Total depth <b>3896'</b>	Amount well producing when plugged: Oil (bbbls/day)      Gas (MCF/day)      Water (bbbls/day)	
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>			

**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>8-5/8"</b>	<b>358'</b>	<b>-0-</b>	<b>358'</b>		

Was well filled with mud-laden fluid, according to regulations? **Yes**      Indicate deepest formation containing fresh water.

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

Name	Address	Direction from this well:

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.

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the District Drlg. 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.

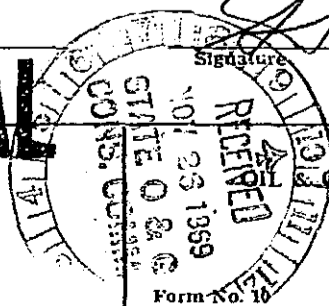
Date **November 14, 1969**

Date

Signature

**A. T. Mannon, Jr.**

**CONFIDENTIAL**



STATE OF ARIZONA  
GAS CONSERVATION COMMISSION

Plugging Record  
File One Copy

Permit No. **519**

Form No. 10

APPLICATION TO ABANDON AND PLUG

FIELD Wildcat  
 OPERATOR Union Oil Company of California ADDRESS P. O. Box 1611 - Casper, Wyoming 82601  
 Federal, State, or Indian Lease Number or Lessor's Name if Fee Lease 282-14-20-06-3-643 WELL NO. 1-N11  
 SURVEY T36N, R29E SECTION 11 COUNTY Apache  
 LOCATION 660' FSL and 1656' FWL

TYPE OF WELL Dry Hole TOTAL DEPTH 3896'  
(Oil, Gas or Dry Hole)  
 ALLOWABLE (If Assigned) None  
 LAST PRODUCTION TEST OIL None (Bbls.) WATER \_\_\_\_\_ (Bbls.)  
 GAS \_\_\_\_\_ (MCF) DATE OF TEST \_\_\_\_\_  
 PRODUCING HORIZON None PRODUCING FROM \_\_\_\_\_ TO \_\_\_\_\_

4v

1. COMPLETE CASING RECORD 8-5/8" OD, 24# K-55 casing set at 358' with 220 sacks Class "G" cement with 2% CaCl<sub>2</sub>. None pulled.

2. FULL DETAILS OF PROPOSED PLAN OF WORK Set cement plugs as follows: 100 sx. at 3800-3550'; 40 sx. at 3150-3050'; 40 sx. at 2625-2525'; 75 sx. at 850-680' and 10 sx. plug at surface. Welded steel cap on 8-5/8" casing and install Dry Hole Marker.

Confirming.

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

DATE COMMENCING OPERATIONS November 6, 1969

NAME OF PERSON DOING WORK Union Oil Co. of Calif. ADDRESS P. O. Box 1611, Casper, Wyo.

CORRESPONDENCE SHOULD BE SENT TO A. T. Mannon, Jr. ORIGINAL SIGNED BY A. T. MANNON JR.

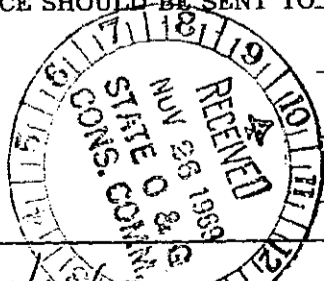
Name District Drilling Superintendent

Title

Address P. O. Box 1611 - Casper, Wyoming 82601

Date November 14, 1969

Date



Date Approved 11/28/69  
 STATE OF ARIZONA  
 OIL & GAS CONSERVATION COMMISSION  
 By: John Bannister

STATE OF ARIZONA  
 OIL & GAS CONSERVATION COMMISSION  
 Application to Abandon and Plug  
 File Two Copies  
 Form No. 9

Permit No. 579

**CONFIDENTIAL**

December 1, 1969

The following wells have been delivered to the  
Cut. Union, #1-11 Navajo (M)  
Sec. 11-36N-29E  
Apache Co. Ariz. Permit # 519

Consolidated, #2-11 Navajo  
Sec. 11-41N-23E  
Apache Co. Ariz. Permit # 519

*Jo Ratcliff*  
Permit # 519 Cut

X-chron

November 5, 1969

Memo to Union #1-11 Navajo (643)  
T36N, R29E, G & SRM  
Sec. 11: SE/4 SW/4  
Apache County  
Permit #519

Memo from J. Scurlock

Telephone from Union this date. They asked for verbal permission to plug the captioned well. Total Depth 3896'.

Tops:	Shinarump	735'
	DeChelly	897'
	Supai	1419'
	Hermosa	2578'
	Molas	3248'
	Redwall (Mississippian)	3295'
	Devonian Ouray	3440'
	Elbert	3458'
	McCracken	3621'
	Anneth	3756'
	Granite	3880'
	Total Depth	3896'

No Cores taken. One DST taken in Hermosa: recovered 20' of mud plus 1 and one-half million feet gas (non-flammable).

Plugs:	3880' - 3550'
	3150' - 3050'
	2625' - 2525'
	850' - 680'

Plug at surface with marker.

This program has been approved by the USGS in Farmington.

**APPLICATION FOR PERMIT TO DRILL OR RE-ENTER**

Amended APPLICATION TO DRILL

RE-ENTER OLD WELL

Union Oil Company of California  
NAME OF COMPANY OR OPERATOR

P. O. Box 1611 Casper Wyoming 82601  
Address City State

Drilling Contractor

Address

**DESCRIPTION OF WELL AND LEASE**

Federal, State or Indian Lease Number, or if fee lease, name of lessor 282-14-20-06-3-643	Well number 1-N11	Elevation (ground) 7,183'
Nearest distance from proposed location to property or lease line: 660 feet	Distance from proposed location to nearest drilling completed or applied—for well on the same lease: feet	
Number of acres in lease: 640	Number of wells on lease, including this well, completed in or drilling to this reservoir: (1) one	
If lease, purchased with one or more wells drilled, from whom purchased:	Name	Address

Well location (give footage from section lines) 660' FSL and 1656' FWL	Section--township--range or block and survey Sec. 11; T.36N; R.29E NSM	Dedication (Comply with Rule 105) SW/4 Sec 11
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Field and reservoir (if wildcat, so state) Wildcat	County Apache
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Distance, in miles, and direction from nearest town or post office  
Approximately 2-1/2 miles southeast of Cove, Arizona.

Proposed depth: 3,800'	Rotary or cable tools Rotary	Approx. date work will start October 10, 1969
Bond Status Amount on file Blanket	Organization Report On file X Or attached	Filing Fee of \$35.00 see receipt Attached #2853 dated 9/29/69.

Remarks: We propose to drill 12-1/4" hole to 350', run and cement 8-5/8" OD casing to surface. Drill 7-7/8" hole to total depth. Run Electric Logs. If productive complete using 5-1/2OD casing and cement. Perforate and complete. Coring and Drill Stem Testing will be at discretion of well site geologist.

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the District Drilling Supt. of the Union Oil Co. 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.

**CONFIDENTIAL**

*A. T. Mannon, Jr.*  
Signature A. T. Mannon, Jr.

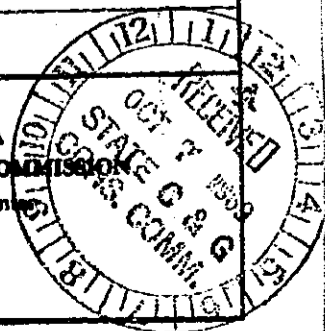
October 6, 1969  
Date

Permit Number: 519  
Approval Date: 10-7-69  
Approved By: *John Bannister*

Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Application to Drill or Re-enter  
File Two Copies

Form No. 3

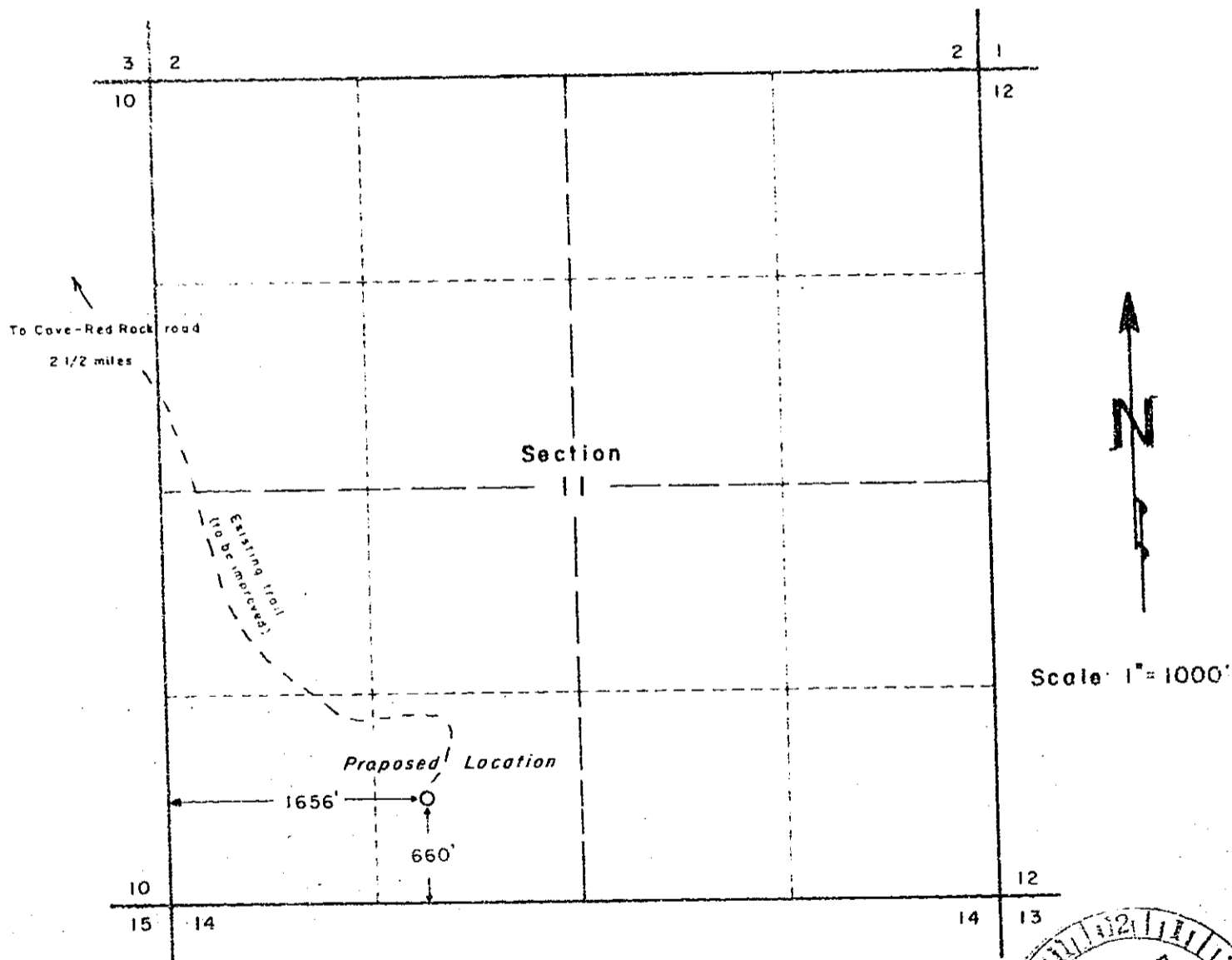


1. Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
2. A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.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

Owner <b>Union Oil Company of California</b>	Land Description <b>Navajo 282-14-20-0603-643</b>
<b>Sec. 11; T.36N; R.29E NSM</b>	
	<p style="text-align: center;"><b>CERTIFICATION</b></p> <p>I hereby certify that the information above is true and complete to the best of my knowledge and belief.</p> <p style="text-align: center;"><i>A.T. Mannon, Jr.</i></p> <p>Name <b>A.T. Mannon, Jr.</b>  <b>District Drilling Supt.</b>          Position  <b>Union Oil Co. of Calif.</b>          Company  <b>October 6, 1969</b>          Date</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>Date Surveyed  <b>October 2, 1969</b>          Registered Professional Engineer and/or Land Surveyor  <b>Frederick H. Reed</b>          Certificate No.  <b>5313</b></p>

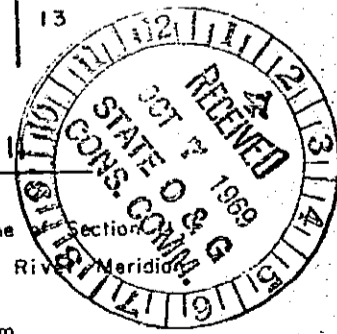
**PROPOSED CASING PROGRAM**

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
8-5/8	24	K-55	0	350	0-350	250
5-1/2	15.5	K-55	0	3,800		150



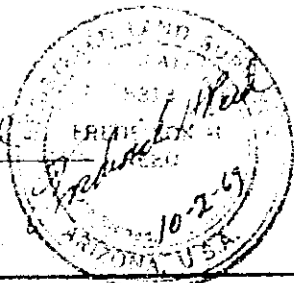
**WELL LOCATION: Union Oil Company Lukachukai No. 1 - N**

Located 660 feet North of the South line and 1656 feet East of the West line  
 Township 36 North, Range 29 East, Gila & Salt River Meridian  
 Apache Co., Arizona  
 Existing ground elevation determined at 7183 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*  
**519**  
 FREDERICK H. REED  
 Registered Land Surveyor  
 State of Arizona \* 5313



UNION OIL COMPANY Denver, Colorado	
WELL LOCATION PLAT SEC. 11, T. 36 N., R. 29 E., G. & S. R. M. Apache Co., Arizona	
CLARK-REED & ASSOC. Durango, Colorado	DATE: Oct. 2, 1969 FILE NO: 69066



# 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 #1-11 NAVAJO  
(WELL NAME)

located 660' FSL - 1656' FVL

Section 11 Township 36N Range 29E, APACHE County, Arizona.

The SW/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 7th day of OCTOBER, 1989.

OIL AND GAS CONSERVATION COMMISSION

By John V. Bannister  
EXECUTIVE SECRETARY

PRIOR TO BEING ALLOWED TO PRODUCE THIS WELL  
YOU MUST BE IN FULL COMPLIANCE WITH RULE  
105, SECTION A THRU G (SPACING), WITH RESPECT  
TO THE PRODUCT TO BE PRODUCED.

PERMIT No 519

RECEIPT NO. 2853  
API NUMBER 02-001-20118

State of Arizona  
Oil & Gas Conservation Commission  
Permit to Drill

FORM NO. 27

SAMPLES ARE REQUIRED

7-25-96

Jim Murphy, Ryan Oil, Denver

- Examined DBK & conclude not a good flood candidate
- low  $\phi$  + fractures. i.e. bypass oil in low  $\phi$  zones of igneous rk.
- May not be enough volume of gas in McCracken to sufficiently pressure up reservoir for effective gas press. maintenance.

Unocal 1-11 Navajo, secw 11-36u-29e (519)

- DST zone @ 3095-3200 has IFP exactly = to FFP, seems odd.
- Any added data in our file?  
looked + phone call to JRS indicates 1.5 mmcf, non-flamm.
- May account for good FP + such low recovery of mud, i.e. 20'.

I call George Covington, Sugarland, Texas 713-287-5332 + leave msg, <sup>7-25</sup>  
no response

call Douglas Soyler, Expt. Team, Sugarland 713-287-7663 + leave msg 7-26

7/29/96 Keith McKee, Unocal calls - All files from that era + area have moved around several times. Some have gone to "deep storage" which is like a black hole. He will ck the files for the Navajo-N 1-11 file. My primary questions are (1) analysis of gas? (2) Why IFP + FFP are exactly the same.

September 23, 1970

St. Paul Fire & Marine Insurance Company  
Moore, Case, Lyman & Hubbard, Inc.,  
175 West Jackson Boulevard  
Chicago, Illinois 60604

Re: Union #1-166 Navajo  
NW/4 NW/4 Sec. 20-T6N-R6W  
Apache County  
Our File #477

Union #1-11 Navajo  
SE/4 SW/4 Sec. 11-T36N-R29E  
Apache County  
Our File #519

Union #1-4 Navajo  
SE/4 SE/4 Sec. 4-T36N-R29E  
Apache County  
Our File #521

Union #1-17 Navajo  
SW/4 SW/4 Sec. 17-T36N-R29E  
Apache County  
Our File #522

Bond No. 400CF 7948/15194

Gentlemen:

Records of this office indicate that Union Oil Company has fulfilled their obligations to the State of Arizona as to the requirements pertaining to the above captioned wells. We authorize termination of the subject bond effective October 30, 1970.

Very truly yours,

• F. E. Allen  
Director, Enforcement Section

WEA:jd  
cc: Union Oil Company  
Denver, Colorado

Operator UNION OIL COMPANY OF CALIFORNIA

Bond Company ST. PAUL FIRE & MARINE INSURANCE <sup>CO.</sup> amount \$25,000

Bond No. 400CF 7948/15194 Date Approved 11-6-68

Permits covered by this bond:

477

~~421~~ 521

519

527

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**CANCELLED**  
DATE 10-30-70

See file  
#477 for  
the original  
copy of the  
bond.

Union Oil and Gas Division: Northern Region

Union Oil Company of California  
1860 Lincoln Street, Denver, Colorado 80203  
Telephone (303) 266-3331



Joseph L. Wilson  
Manager of Lands

September 21, 1970

Oil and Gas Conservation Commission  
State of Arizona  
1624 West Adams  
Phoenix, Arizona

Attention: Mr. John Bannister

Re: Bond No. 400CF 7948/15194  
Union Oil Company of California,  
Principal

Gentlemen:

Reference is made to the subject bond, xerox copy attached, which, according to our records, expires on October 30, 1970. It is our desire to terminate this bond effective with the October 30 expiration. Accordingly, we shall appreciate your supplying the surety, St. Paul Fire & Marine Insurance Company, through their Chicago Agent, Moore, Case, Lyman & Hubbard, Inc., 175 West Jackson Boulevard, Chicago, Illinois, 60604 with an appropriate release of this bond, supplying this office with a copy of your release.

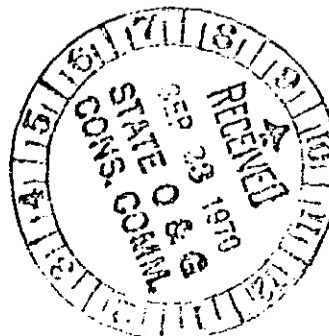
Thank you very much.

Very truly yours,

A handwritten signature in cursive script, appearing to read "R. J. Morton".

R. J. Morton  
Supervisor of Leases

RJM:kh  
Enclosure



PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS

Bond Serial No. 400CF 7948/15194

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 \$25,000.00 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:

BLANKET BOND

(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 30th day of OCTOBER, 1968

UNION OIL COMPANY OF CALIFORNIA

By: [Signature]

By: [Signature] VICE PRESIDENT

FORM APPROVED

WITNESS our hands and seals this 30th day of October, 1968

ST. PAUL FIRE AND MARINE INSURANCE COMPANY

By: [Signature] Attorney-in-Fact

Surety, Resident Arizona Agent (If issued in a state other than Arizona)

If the principal is a corporation, the bond should be executed by its duly authorized officers, with 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 11/6/68 STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION By: John W. Bannister

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Bond File Two Copies Form No. 2

RECEIVED stamp

Permit No. 488

x-Chaco  
x-522

December 18, 1969

Mr. Clarence L. Harr  
Union Oil Company of California  
P. O. Box 3372  
Durango, Colorado 81301

Re: Union #1-17 Navajo (Giant No. 1-M17)  
T36N, R29E, G & SRM  
Sec. 17: SW/4 SW/4  
Apache County  
Our File #522

Union #1-11 Navajo (Lukachukai No. 1-N11)  
T36N, R29E, G & SRM  
Sec. 11: SE/4 SW/4  
Apache County  
Permit #519

Dear Mr. Harr:

Enclosed is a photocopy of a letter received in this office on December 16, 1969. This letter advised us that we were receiving two copies of each log run on the subject wells. Included with the letter were two copies of the logs run on the Lukachukai No. 1-N11 Well, but no logs on the Giant No. 1-M17 well. We are sure these logs must have been accidentally omitted when the package was made up. We would appreciate receiving copies of these logs on the Giant No. 1-M17 well at your earliest convenience.

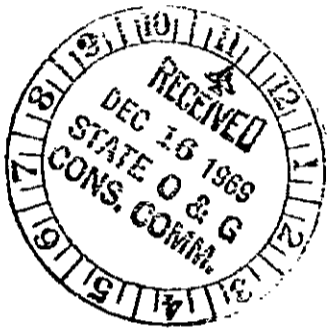
Sincerely,

John Bannister  
Executive Secretary

jd  
Enc. (1)

Union Oil and Gas Division: Northern Region

Union Oil Company of California  
P.O. Box 3372, Durango, Colorado 81301  
Telephone (303) 247-4300



**UNION 76**

December 15, 1969

Mr. John Bannister  
Executive Secretary  
OIL & GAS CONSERVATION COMMISSION  
State of Arizona  
Rm. 202  
1824 W. Adams  
Phoenix, Arizona 85007

SUBJECT

UNION OIL COMPANY OF CALIFORNIA  
Giant No. 1-M17  
Sec. 17, T. 36N., R. 29E. → 522  
Apache County, Arizona

and

UNION OIL COMPANY OF CALIFORNIA  
Lukachukai No. 1-N11  
Sec. 11, T. 36N., R. 29E. → 519  
Apache County, Arizona

Dear Mr. Bannister:

Enclosed for your files are two (2) copies of each log run on the subject wells. Both wells were drilled as "tite holes" and we are requesting that all information including the logs be held confidential.

Yours truly,

UNION OIL COMPANY OF CALIFORNIA

*Clarence L. Harr*  
Clarence L. Harr  
District Exploration Manager

CLH/mr  
Enclosures:

Giant No. 1-M17  
(2) Sidewall Neutron Porosity  
(2) Dual Induction-Laterolog  
(2) Comp. Formation Density

Lukachukai No. 1-N11  
(2) Sidewall Neutron Porosity  
(2) Dual Induction-Laterolog  
(2) Comp. Formation Density  
(Run 1 and 2)

2 (Run 1)  
2 (Run 2)      ↓      ↓  
2                    2                    2

X. Lambert  
X. Lambert

November 20, 1969

Mr. Harold Simpson  
District Operations Manager  
Union Oil Company of California  
P. O. Box 1611  
Casper, Wyoming 82601

Re: Union #1-11 Navajo (643)  
T36N, R29E, G & SRM  
Sec. 11: SE/4 SW/4  
Apache County  
Permit #519

Dear Mr. Simpson:

Our files indicate that you received verbal permission to plug the captioned well on November 5, 1969. Please complete and return the enclosed reports pertaining to this well.

Yours truly,

James A. Lambert  
Administrative Assistant

jj  
Enc.

519

X-Chen U

October 7, 1969

Mr. Harold Simpson  
District Operations Manager  
Union Oil Company of California  
P. O. Box 1611  
Casper, Wyoming 82601

Re: Union #1-11 Navajo (643)  
T36N, R29E, G & SRM  
Sec. 11: SE/4 SW/4  
Apache County  
Permit #519

Dear Mr. Simpson:

Enclosed is the approved Application for Permit to Drill covering the amended location, a copy of the amended plat, and our Permit to Drill No. 519.

Miscellaneous instruction sheets pertaining to samples and reports required by this office are also enclosed for your information.

We want to take this opportunity to thank you for your cooperation concerning our request for you to submit a corrected location.

Yours truly,

John Bannister  
Executive Secretary

jf  
Enc.



# Telegram

203P PDT OCT 1 69 LB221 KA614  
 K CMA44 LJ PDB CASPER WYO 1 251P MDT *251P*  
 JAMES A LAMBERT, ADMIN ASSISTANT *1624 W. Adams*  
 OIL AND GAS CONSERVATION COM PHOENIX ARIZ *202*



~~WE ARE MOVING THE LOCATION OF OUR NAVAJO NBR 1-11 WELL TO~~  
 COMPLY WITH THE WELL SPACING ORDER COVERING SEC 11 T36N R29E  
 APACHE COUNTY ARIZ A NEW APPLICATION TO DRILL AND A PLATTE  
 SHOWING AN ~~EXISTING~~ LOCATION IN THE SE1/4 SW1/4 SEC 11 WILL  
 BE SUBMITTED AS SOON AS THE GROUND SURVEY IS COMPLETED REQUEST  
 YOUR ATTENTATIVE APPROVAL OF OUR NEW APPLICATION SO THAT WE  
 MAY PROCEED WITH LOCATION PREPARATION WITHOUT DELAY YOURS  
 VERY TRULY

A T MANNON JR DISTRICT DRILLING SUPT UNION OIL CO OF CALIF

1-11 11 T36N R29E SE1/4 SW1/4 SEC 11  
 (255)6

*275 516 712*  
 S *233p D. J. P. J.*  
 E

SF-1201 (R5-69)

TELEGRAM RECEIVED BY TELEPHONE

S S E

*170* 1969 OCT KC PM 5 47

A T MANON JR

~~DISTRICT~~ DISTRICT DRILLING SUPVR UNION OIL CO  
 OF CALIF FONE 307-234-1563

DATE LS OCT 1 327PMM

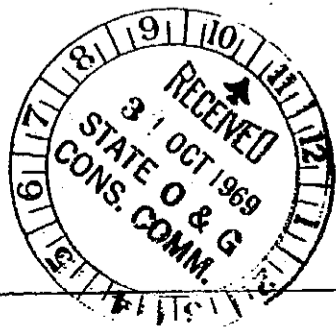
CHECK MIN NL PD B  
 TEL NO. CFM FURN

DEST N CASPER WYO

PENDING RECEIPT OF NEW APPLICATION TO DRILL, AND  
 LOCATION PLAT, PERMISSION IS GRANTED TO PROCEED WITH  
 UNION #1-11 NAVAJO (643) TO BE LOCATED WITHIN SE/4  
 SW/4 SEC 11 TOWNSHIP 36N RANGE 29E APACHE COUNTY ARIZ.

OIL AND GAS  
 CONSERVATION  
 COMMISSION JOHN BANNIS  
 EXEC. SECTRY

202 STATE OFFICE BLDG  
 1624 WEST ADAMS  
 85007



519

SOCIAL REMINDER  
 YES NO

**western union**

**Telegram**

203P PDT OCT 1 69 LB221 KA614  
K CMA44 LJ PDB CASPER WYO 1 251P MDT *251P*  
JAMES A LAMBERT, ADMIN ASSISTANT *1624 W. Adams*  
OIL AND GAS CONSERVATION COM PHOENIX ARIZ *202*

RECEIVED  
2 OCT 1969  
STATE O & G  
CONS. COMM.

~~WE ARE MOVING THE LOCATION OF OUR NAVAJO NBR 1-11 WELL TO~~  
COMPLY WITH THE WELL SPACING ORDER COVERING SEC 11 T36N R29E  
APACHE COUNTY ARIZ A NEW APPLICATION TO DRILL AND A PLATTE  
SHOWING AN ~~OTHER~~ LOCATION IN THE SE1/4 SW1/4 SEC 11 WILL  
BE SUBMITTED AS SOON AS THE GROUND SURVEY IS COMPLETED REQUEST  
YOUR ATTENTATIVE APPROVAL OF OUR NEW APPLICATION SO THAT WE  
MAY PROCEED WITH LOCATION PREPARATION WITHOUT DELAY YOURS  
VERY TRULY

A T MANNON JR DISTRICT DRILLING SUPT UNION OIL CO OF CALIF  
1-11 11 T36N R29E SE1/4 SW1/4 SEC 11  
(255)60

*271-5161-712*  
*261-4701*  
S  
E  
*233p Mailed*

SF-1201 (R5-69)

TELEGRAM RECEIVED BY TELEPHONE

S S E

*170*

1969 OCT KC PM 5 47

DATE LS OCT 1 327PMM

CHECK MIN NL PD B

TELE. NO. CFM FURN

A T MANON JR

*B*

~~DISTRICT~~ DISTRICT DRILLING SUPVR UNION OIL CO  
OF CALIF FONE 307-234-1563

CASPER WYO

PENDING RECEIPT OF NEW APPLICATION TO DRILL, AND  
LOCATION PLAT, PERMISSION IS GRANTED TO PROCEED WITH  
UNION #1-11 NAVAJO (643) TO BE LOCATED WITHIN SE/4  
SW/4 SEC 11 TOWNSHIP 36N RANGE 29E APACHE COUNTY ARIZ.

SIGNATURE

OIL AND GAS  
CONSERVATION  
COMMISSION JOHN BANNIS  
EXEC. SECTRY

202 STATE OFFICE BLDG  
1624 WEST ADAMS  
85007

RECEIVED  
3 OCT 1969  
STATE O & G  
CONS. COMM.

519

SOCIAL REMINDER  
YES NO

September 29, 1969

Mr. Harold Simpson  
District Operations Manager  
Union Oil Company of California  
P.O. Box 1611  
Casper, Wyoming 82601

Dear Mr. Simpson:

Enclosed is our Receipt No. 2853 covering a permit to be issued for the drilling of a well.

This morning I talked with you concerning the unorthodox location of your Union No. 1-11 Navajo (643) to be drilled in Section 11, Township 36 North, Range 29 East. I have posted photographs of the order that spells out the finite location of a well drilled in this section, township and range.

Should you be unable to submit new application for permit to drill with a new plat showing the location to be in the SE/4 or the NW/4 of a quarter section, we will expect to have application for hearing concerning unorthodox location in this office on or before October 3, 1969, in order to permit legal publication of notice for the commission meeting to be held October 15, 1969.

Yours truly,

James A. Lambert  
Administrative Assistant

/vb

cc - Mr. Bob Massey

Enc.

TELEGRAM RECEIVED BY TELEPHONE

170 1969 OCT 1 PM 5 47

A T MANON JR  
 DISTRICT DRILLING SUPVR UNION OIL CO  
 OF CALIF FONE 307-234-1563

OCT 1 1969  
 2 14 PM 2 18  
 B-25253-8

TELEGRAM  
 10-1-69  
 CONFIRMATION WILL FOLLOW

WE ARE MOVING THE LOCATION OF OUR NAVAJO #1-11 WELL TO COMPLY WITH THE WELL SPACING ORDER COVERING SECTION 11 T36N R29E APACHE COUNTY ARIZONA. A NEW APPLICATION TO DRILL AND A PLATTE SHOWING AN ORTHODOX LOCATION IN THE SE 1/4 SW 1/4 SECTION 11 WILL BE SUBMITTED AS SOON AS THE GROUND SURVEY IS COMPLETED. REQUEST YOUR TENTATIVE APPROVAL OF OUR NEW APPLICATION SO THAT WE MAY PROCEED WITH LOCATION PREPARATION WITHOUT DELAY.

YOURS VERY TRULY

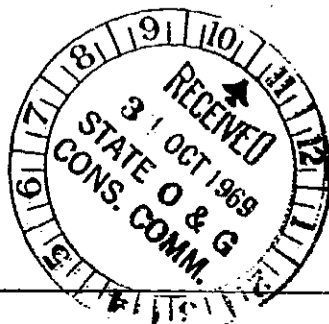
A. T. MANON JR.  
 DISTRICT DRILLING SUPERVISOR  
 UNION OIL CO OF CALIF  
 CASPER, WYOMING

TELEGRAM RECEIVED BY TELEPHONE S S E

A T MANON JR

~~DISTRICT~~ DISTRICT DRILLING SUPVR UNION OIL CO  
 OF CALIF FONE 307-234-1563

PENDING RECEIPT OF NEW APPLICATION TO DRILL, AND LOCATION PLAT, PERMISSION IS GRANTED TO PROCEED WITH UNION #1-11 NAVAJO (643) TO BE LOCATED WITHIN SE/4 SW/4 SEC 11 TOWNSHIP 36N RANGE 29E APACHE COUNTY ARIZ. OIL AND GAS



519

DATE	LS OCT 1 327PMM
CHECK	MIN NL PD B
TELE. NO.	CFM FURN
DEPT. N.	CASPER WYO
SIGNATURE	
BUR.	202 STATE OFFICE BLDG 1624 WEST ADAMS 85007
SOCIAL REMINDER	
YES	NO

Union Oil Company of California  
Post Office Box 1611, Casper, Wyoming 82601  
Telephone (307) 234-1563

**UNION** 

September 24, 1969

Arizona Oil and Gas Conservation Commission  
Room 202  
1624 West Adams  
Phoenix, Arizona 85007


Re: Navajo Contract  
282-14-20-0603-643  
Well Navajo No. 1-11M  
SW SW Section 11, T36N, R29E  
Apache County, Arizona

Gentlemen:

Enclosed are Union Oil Company of California's application to drill the subject well. This well is being drilled as a "tight" hole and information on this well is requested to be held confidential.

Very truly yours,

Union Oil Company of California

  
Harold Simpson  
District Operations Manager

TNM:kj  
Attach.



519

519

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

FOR  
Drilling permit - Lukachu #1 M-11  
Apache County, Arizona

\$25.00

33-7/1020  
#519

519

