

DOHERTY #1-15 NAVAJO 480  
SE SE 15-7N-7W Apache County

M-1

COUNTY Apache AREA 5 mi/S Greasewood Trading Post LEASE NO. Nav. 14-200603-633

WELL NAME E. J. Doherty #1-15 Navajo

LOCATION SE SE SEC 15 TWP 7N RANGE 7W NSM FOOTAGE 330' FSL 330' FEL  
 ELEV 7073' GR 7085' KB SPUD DATE 12-16-68 STATUS PGA TOTAL DEPTH 3001'  
 COMP. DATE 1-8-69

CONTRACTOR Perry & Faust, Grand Junction, Colorado

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY	<input checked="" type="checkbox"/>
9 5/8"	183'	100 SKS	NA	DRILLED BY CABLE TOOL	
				PRODUCTIVE RESERVOIR	
				INITIAL PRODUCTION	<u>Dry</u>

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Triassic	Surface	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
DeChelly	220'			
Supai	1152'			
Hermosa	1962'			
Mississippian	2444'			
Elbert	2607'			
McCracken	2758'			
Aneth	2900'			
Pre-Cambrian	2984'			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG <u>Am Strat</u> SAMPLE DESCRIPTION <u>1-15-69</u> SAMPLE NO. <u>1505</u> CORE ANALYSIS _____ DSTs _____
<u>IES; BHC-GR</u>	<u>NA</u>	<u>NA</u>	
REMARKS			APP. TO PLUG <input checked="" type="checkbox"/> <u>No</u> PLUGGING REP. _____ COMP. REPORT <input checked="" type="checkbox"/>

WATER WELL ACCEPTED BY NAVAJO TO USE AS WATER HOLE

BOND CO. United States Fidelity & Guaranty BOND NO. 47562-13-822-68  
 BOND AMT. \$ 5,000 CANCELLED 3-19-69 DATE 12-11-68  
 FILING RECEIPT 9562 LOC. PLAT  WELL BOOK  PLAT BOOK   
 API NO. 02-001-20089 DATE ISSUED 12-18-68 DEDICATION E/2 SE/4

PERMIT NUMBER 480

(over)



## 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 Edward F. Doherty		Address 209 Gold Ave SW, Albuquerque, N.M. 87101	
Federal, State or Indian Lease Number or name of lessor if fee lease Navajo Tribal 14-20-0603-633		Well Number 1-15	Field & Reservoir Wildcat
Location 330' FSL, 330' FEL		County Apache	
Sec. TWP-Range or Block & Survey Section 15, Township 7 North, Range 7 West			
Date spudded 12-16-68	Date total depth reached 1-8-69	Date completed, ready to produce Dry	Elevation (DF, BKB, RT or Gr.) feet 7085
Elevation of casing hd. flange 7073 feet			
Total depth 3001	P.B.T.D. NA	Single, dual or triple completion? NA	If this is a dual or triple completion, furnish separate report for each completion. NA
Producing interval (s) for this completion None		Rotary tools used (interval) 1-3001	Cable tools used (interval) None
Was this well directionally drilled? No	Was directional survey made? No	Was copy of directional survey filed? NA	Date filed NA
Type of electrical or other logs run (check logs filed with the commission) IES <input checked="" type="checkbox"/> GRS <input checked="" type="checkbox"/>			Date filed 1-23-69

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"	9 5/8"	32.3	182.7	100	None

TUBING RECORD

LINER RECORD

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

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

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

INITIAL PRODUCTION

Date of first production  
D & A

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)

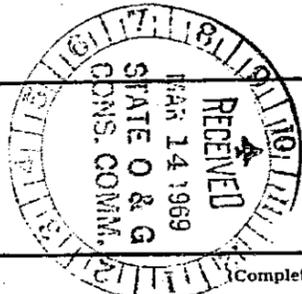
Tubing pressure	Casing pressure	Cal'd rate of Production per 24 hrs.	Oil	Gas	Water	Gas-oil ratio
			bbls.	MCF	bbls.	

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 operator's agent of the individual (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.

March 13, 1969  
Date

*Curtis J. Little*  
Signature  
Curtis J. Little



Permit No. 480

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

Form No. 4

(Complete Reverse Side)

**DETAIL OF FORMATIONS PENETRATED**

Formation	Top	Bottom	Description*
Triassic			
Chinle	0	220	Sand and shale
Permian			
DeChelly	220	1152	Sand
Supai	1152	1962	Shale and siltstone
Pennsylvanian			
Hermosa	1962	2444	Limestone, sand and shale
Mississippian	2444	2607	Limestone
Devonian			
Elbert	2607	2758	Dolomite
McCracken	2758	2900	Sandstone
Aneth	2900	2984	Dolomite
PreCambrian	2984	3001	Quartzite
No cores or tests			

\* 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 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.  
14-20-0603-633

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Navajo 1-15

9. WELL NO.

Navajo 1-15

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 15, T7N, R7W

12. COUNTY OR PARISH

Apache

13. STATE

Arizona

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  Wildcat

2. NAME OF OPERATOR  
Edward F. Doherty

3. ADDRESS OF OPERATOR  
209 Gold Ave., SW, Albuquerque, New Mexico 87101

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

330' FSL, 330' FEL

14. PERMIT NO.

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

7073 GL - Graded

18. 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)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(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.)\*

Plugged and abandoned at a total depth of 3001' in the following manner:

82 sx            2400 - 2650  
34 sx            1635 - 1735  
34 sx            900 - 1000

Installed screw-on-type Dry Hole Marker for Navajo use as a water well.

Rig released 3:00 A.M., January 8, 1969.

CONFIDENTIAL



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

SIGNED Curtis J. Little Agent for E. F. Doherty

DATE 1-8-69

(This space for Federal or State office use) Albuquerque, New Mexico 87108

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side

486



Doherty # 1-15 Navajo

# 480

Curtis Little - by phone 1-7-69

Dry hole

Tops

DeChelly	230'
Supai	1112'
Hermosa (Penn)	1693? 1963?'
Miss.	2444'
Elbert (Dev.)	2607'
McCracken	2791'
Aneth	2900'
Pre. Crumbrain	2983'
TD	3001'

Plugs 900' - 1000' } approved USGS 1-7-69  
1635' - 1735' } verbal app. by Comm  
2400' - 2650' } 1-7-69 JLB

9 5/8" Csg to 197' left in hole & hole capped. Indians will take over as water well after above plugs set. Water found between 200' & 1100'.

480

JLB

Form 5-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.  
14-20-0603-633

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Navajo 1-15

9. WELL NO.

Navajo 1-15

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Sec. 15, T7N, R7W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
7073 GL - graded

12. COUNTY OR PARISH  
Apache

13. STATE  
Arizona

18. 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)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(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.)\*

REPORT ON ELEVATION - SEE ABOVE.

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

SIGNED Curtis J. Little TITLE Agent for E. F. Doherty DATE 1-3-69

(This space for Federal or State office use) Albuquerque, N. M. 87108

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

480

12.18.68

4:00 pm, Doherty # Navajo

Little (agent) Spudded 12-16-68

No permit issued - No bond

Lambert called Ann (Carter on site)  
who doesn't know where held-up is  
on issuing bond. She will contact bond  
company immediately & will telephone  
us Thurs. 12-19-68 -

4:30 pm

Ann Little telephoned bond number  
& that bond was mailed 12-13-68  
to Ariz. resident agent.

U.S.F. & G. (Mr. Dana) confirmed that  
it ~~was~~<sup>is</sup> countersigned & ~~will be~~<sup>will be</sup> mail today.  
(Local office rec'd it yesterday -  
slow perhaps due to Christmas  
mails. Therefore ~~it may~~ again due to  
Christmas mails it may be a couple  
of days before we receive it.)

Permit issued & mailed today.

16

486

Form 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE  
(Other instructions on  
reverse 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  Wildcat

2. NAME OF OPERATOR  
EDWARD F. DOHERTY

3. ADDRESS OF OPERATOR  
209 GOLD AVE., SW, ALBUQUERQUE, N.M. 87101

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface  
330' FSL, 330' FEL

14. PERMIT NO. \_\_\_\_\_ 15. ELEVATIONS (Show whether DE, BY, OR, etc.) \_\_\_\_\_

5. LEASE DESIGNATION AND SERIAL NO.  
14-20-0603-633

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo Tribal

7. LEASE AGREEMENT NAME \_\_\_\_\_

8. FARM OR LEASE NAME  
Navajo 1-15

9. WELL NO.  
Navajo 1-15

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 15, T7N, R7W

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:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input checked="" 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 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.)

Spudded December 16, 1968 at 4:00 P.M.  
Drilled 12 1/4" hole to 197' KB. Set 182.73' of 9 5/8", 32.30#, H-40 casing.  
Cemented w/ 100 sx w/ 3% Ca Cl. Cement circulated.

CONFIDENTIAL



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

SIGNED Curtis J. Little, P.O. Box 8976 TITLE Agent for E. F. Doherty DATE 12-17-68  
(This space for Federal or State office use) Albuquerque, New Mexico 87108

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

\*See Instructions on Reverse Side

7 480

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER **Wildcat** SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
**EDWARD F. DOHERTY**

3. ADDRESS OF OPERATOR  
**209 GOLD AVE., SW, ALBUQUERQUE, N.M. 87101**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface **330' FSL, 330' FEL**  
At proposed prod. zone  
**Same**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
**5 miles south of Greasewood Trading Post**

10. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
**330'**

16. NO. OF ACRES IN LEASE  
**640**

17. NO. OF ACRES ASSIGNED TO THIS WELL  
**80**

18. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
**None**

19. PROPOSED DEPTH  
**2900'**

20. ROTARY OR CABLE TOOLS  
**Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**To be furnished later. Approximately 7040'**

22. APPROX. DATE WORK WILL START\*  
**December 13, 1968**

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT*
12 1/4"	9 5/8"	36	200	60 sx
* 7 7/8"	5 1/2"	15.5	2900	125 sx

Plan to drill 2900 feet or to Pre-Cambrian with rotary using mud and to test and/or produce all zones possibly productive of hydrocarbons.

\*If productive

CONFIDENTIAL

RECEIVED  
DEC 1 1968  
U. S. GEOLOGICAL SURVEY  
BIRMINGHAM, ALA.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Curtis J. Little TITLE Agent for E. F. Doherty DATE December 10, 1968  
(This space for use of State office use)  
Albuquerque, New Mexico 87108

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

DEC 11 1968  
R. T. McGRATH  
DISTRICT ENGINEER

480  
See Instructions On Reverse Side

RECEIVED  
DEC 6 1968  
STATE O & G  
CONS. COMM.





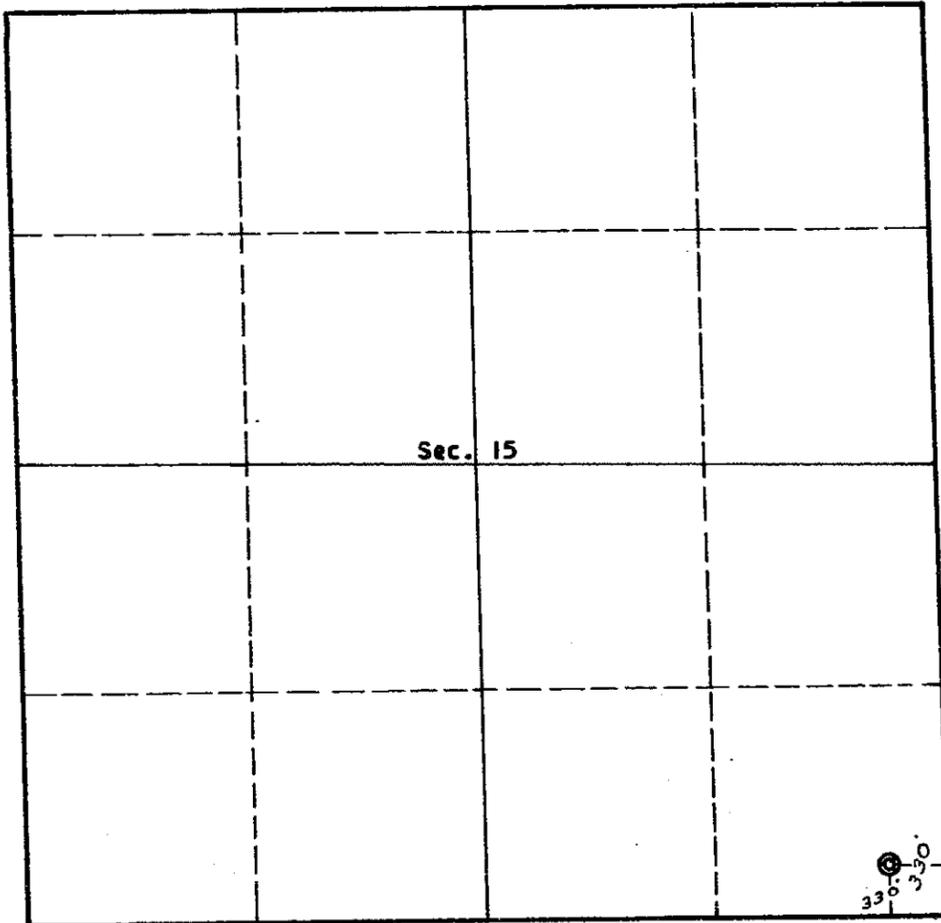
Company CURTIS LITTLE

Well Name & No. \_\_\_\_\_

Location 330 feet from the South line and 330 feet from the East line.

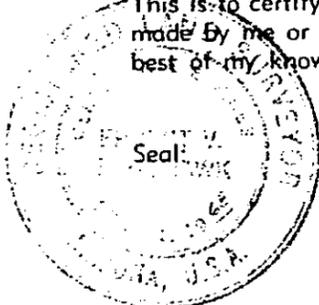
Sec. 15, T. 7 N, R. 7 W, Navajo Special Meridian, Apache County, Arizona.

Ground Elevation 7085, Est.



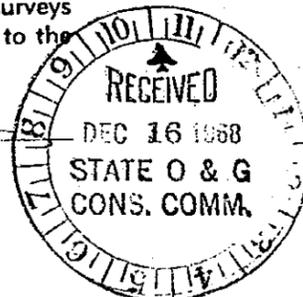
Surveyed December 9, 1968

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.



*E. V. Echohawk*  
Ernest V. Echohawk  
Registered Land Surveyor

480





# PERMIT TO DRILL

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

To: MR. EDWARD P. DOHERTY, INCORPORATED  
(OPERATOR)

to drill a well to be known as

DOHERTY #1-15 NAVAJO  
(WELL NAME)

located 330' FSL - 350' FWL

Section 15 Township 47N Range 29W APACHE County, Arizona.

The 1/2 5E/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 18 day of DECEMBER, 19 68.

OIL AND GAS CONSERVATION COMMISSION

By John Bannister  
EXECUTIVE SECRETARY

PERMIT N<sup>o</sup> 480

RECEIPT NO. 9502

State of Arizona  
Oil & Gas Conservation Commission

Permit to Drill

FORM NO. 27

API No. 02-001-200-89  
SAMPLES ARE REQUIRED

*copy of permit and receipt  
sent as agent for Mr. Doherty*

John:

~~Organizational~~  
Report & Bond will  
be forwarded  
tomorrow.

Survey plat will  
be forwarded in  
few days.

ABL.

RECEIVED  
DEC 11 1968  
STATE O & G  
COMM. 5  
1 2 3 4 5 6 7 8 9 10 11 12

X-Clayton  
X-Lambert

May 5, 1969

Mr. Edward F. Doherty  
Doherty & Company  
209 Gold Avenue S. W.  
Albuquerque, New Mexico 87103

Re: Doherty #1-15 Navajo  
T7N, R7W, NSM  
Sec. 15: SE/4 SE/4  
Apache County  
Permit #480

Dear Mr. Doherty:

Please be advised that your request for bond release on the captioned well has been complied with by this Commission. This bond was released on March 19, 1969. You will find enclosed a photocopy of the letter sent to United States Fidelity & Guaranty Company authorizing termination of the bond on the Doherty #1-15 Navajo well.

Yours truly,

James A. Lambert  
Administrative Assistant

jj

Enc.

480

**DOHERTY & CO.**

INVESTMENT SECURITIES

209 GOLD AVE. S.W.      PHONE (505) 242-2836  
BOX 462  
ALBUQUERQUE, NEW MEXICO 87103

Mr. John Bannister  
Arizona Oil & Gas Conservation Commission,  
1624 W. Adams,  
Phoenix, Arizona 85007

Dear Mr. Bannister:

*EL*  
I have been advised that the location of the Doherty #1-15 Navajo, Apache County, Arizona has been cleaned up and I would like to request that I be released from the bond at this location.

Respectfully requested,

*Edward F. Doherty*  
Edward F. Doherty

EFD/de



480

X - Lambert Log  
X - (Hand) Log

March 19, 1969

United States Fidelity and Guaranty Company  
3605 North 7th Avenue  
Phoenix, Arizona 85013

Re: Doherty #1-15 Navajo  
T7N, R7W, NSM  
Sec. 15: 3E/4 3E/4  
Apache County, Arizona  
Permit #480  
Bond #47562-13-822-68

Gentlemen:

Records of this office indicate that on 3-19-69  
Mr. Curtis J. Little fulfilled his obligations  
to the Commission as to the requirements per-  
taining to the captioned well. We authorize  
termination of the referenced bond effective  
this date.

Yours truly,

John Bannister  
Executive Secretary

JL:jf

cc: Mr. Curtis J. Little

480

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS

Bond Serial No. 47562-13-822-68

That we: Edward F. Doherty

of the County of Bernalillo in the State of New Mexico

as principal, and United States Fidelity and Guaranty Company

of Baltimore, Maryland

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 Five Thousand & No/100, (\$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:

330' FSL 330' FEL Section 15 7N, 7W, SE SE SE

(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 11th day of December, 19 68

Edward F. Doherty

[Signature of Edward F. Doherty]
Principal

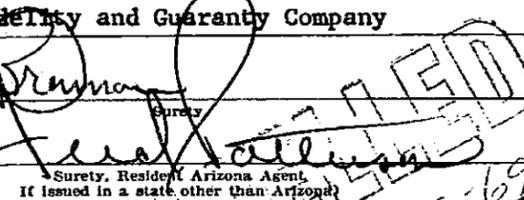
WITNESS our hands and seals this 11th day of December, 19 68

United States Fidelity and Guaranty Company

[Signature of W. J. Brennan]
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, lawyer or attorney or other evidence of authority must accompany the bond.)



Approved Date 12/19/68
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By: John Brennan 1968

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

Permit No. 480

CERTIFIED COPY

GENERAL POWER OF ATTORNEY

No. 75770

Know all Men by these Presents:

That UNITED STATES FIDELITY AND GUARANTY COMPANY, a corporation organized and existing under the laws of the State of Maryland, and having its principal office at the City of Baltimore, in the State of Maryland, does hereby constitute and appoint R. J. McCanna and W. J. Brennan

of the City of Albuquerque, State of New Mexico, its true and lawful attorneys in and for the State of New Mexico

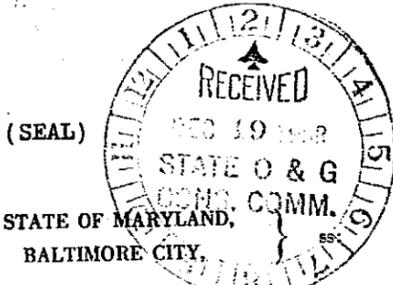
for the following purposes, to wit:

To sign its name as surety to, and to execute, seal and acknowledge any and all bonds, and to respectively do and perform any and all acts and things set forth in the resolution of the Board of Directors of the said UNITED STATES FIDELITY AND GUARANTY COMPANY, a certified copy of which is hereto annexed and made a part of this Power of Attorney; and the said UNITED STATES FIDELITY AND GUARANTY COMPANY, through us, its Board of Directors, hereby ratifies and confirms all and whatsoever either the said R. J. McCanna or the said W. J. Brennan

may lawfully do in the premises by virtue of these presents.

In Witness Whereof, the said UNITED STATES FIDELITY AND GUARANTY COMPANY has caused this instrument to be sealed with its corporate seal, duly attested by the signatures of its Vice-President and Assistant Secretary, this 23rd day of October, A. D. 19 63

UNITED STATES FIDELITY AND GUARANTY COMPANY.



(Signed) By W. H. Spencer Vice-President.

(Signed) Richard D. Reinhardt Assistant Secretary.

STATE OF MARYLAND, BALTIMORE CITY.

On this 23rd day of October, A. D. 19 63, before me personally came W. H. Spencer, Vice-President of the UNITED STATES FIDELITY AND GUARANTY COMPANY and Richard D. Reinhardt, Assistant Secretary of said Company, with both of whom I am personally acquainted, who being by me severally duly sworn, said that they resided in the City of Baltimore, Maryland; that they, the said W. H. Spencer and Richard D. Reinhardt were respectively the Vice-President and the Assistant Secretary of the said UNITED STATES FIDELITY AND GUARANTY COMPANY, the corporation described in and which executed the foregoing Power of Attorney; that they each knew the seal of said corporation; that the seal affixed to said Power of Attorney was such corporate seal, that it was so fixed by order of the Board of Directors of said corporation, and that they signed their names thereto by like order as Vice-President and Assistant Secretary, respectively, of the Company.

My commission expires the first Monday in May, A.D. 1965 (Signed) Anne M. O'Brien Notary Public.

STATE OF MARYLAND, BALTIMORE CITY.

I, James F. Carney, Clerk of the Superior Court of Baltimore City, which Court is a Court of Record, and has a seal, do hereby certify that Anne M. O'Brien, Esquire, before whom the annexed affidavits were made, and who has subscribed his name, was at the time of so doing a Notary Public of the State of Maryland, in and for the City of Baltimore; and I am commissioned and sworn and authorized by law to administer oaths and take acknowledgments, or proof of deeds to be recorded therein. I further certify that I am acquainted with the handwriting of the said Notary, and verily believe the signature to be his genuine signature.

In Testimony Whereof, I hereto set my hand and affix the seal of the Superior Court of Baltimore City, the same being a Court of Record, this 23rd day of October, A. D. 1963 (Signed) James F. Carney Clerk of the Superior Court of Baltimore City.

3

[REDACTED]

**COPY OF RESOLUTION**

*That Whereas*, it is necessary for the effectual transaction of business that this Company appoint agents and attorneys with power and authority to act for it and in its name in States other than Maryland, and in the Territories of the United States and in the Provinces of the Dominion of Canada and in the Colony of Newfoundland.

*Therefore, be it Resolved*, that this Company do, and it hereby does, authorize and empower its President or either of its Vice-Presidents in conjunction with its Secretary or one of its Assistant Secretaries, under its corporate seal, to appoint any person or persons as attorney or attorneys-in-fact, or agent or agents of said Company, in its name and as its act, to execute and deliver any and all contracts guaranteeing the fidelity of persons holding positions of public or private trust, guaranteeing the performances of contracts other than insurance policies and executing or guaranteeing bonds and undertakings, required or permitted in all actions or proceedings, or by law allowed, and

*Also*, in its name and as its attorney or attorneys-in-fact, or agent or agents to execute and guarantee the conditions of any and all bonds, recognizances, obligations, stipulations, undertakings or anything in the nature of either of the same, which are or may by law, municipal or otherwise, or by any Statute of the United States or of any State or Territory of the United States or of the Provinces of the Dominion of Canada or of the Colony of Newfoundland, or by the rules, regulations, orders, customs, practice or discretion of any board, body, organization, office or officer, local, municipal or otherwise, be allowed, required or permitted to be executed, made, taken, given, tendered, accepted, filed or recorded for the security or protection of, by or for any person or persons, corporation, body, office, interest, municipality or other association or organization whatsoever, in any and all capacities whatsoever, conditioned for the doing or not doing of anything or any conditions which may be provided for in any such bond, recognizance, obligation, stipulation, or undertaking, or anything in the nature of either of the same.

I, **R. H. Bland, Jr.**, an Assistant Secretary of the UNITED STATES FIDELITY AND GUARANTY COMPANY, do hereby certify that the foregoing is a full, true and correct copy of the original power of attorney given by said Company to **R. J. McCanna and W. J. Brennan**

of **Albuquerque, New Mexico**, authorizing and empowering **them** to sign bonds as therein set forth, which power of attorney has never been revoked and is still in full force and effect.

And I do further certify that said Power of Attorney was given in pursuance of a resolution adopted at a regular meeting of the Board of Directors of said Company, duly called and held at the office of the Company in the City of Baltimore, on the 11th day of July, 1910, at which meeting a quorum of the Board of Directors was present, and that the foregoing is a true and correct copy of said resolution, and the whole thereof as recorded in the minutes of said meeting.

*In Testimony Whereof*, I have hereunto set my hand and the seal of the UNITED STATES FIDELITY AND GUARANTY COMPANY on

(Date)

12-11-67

*R. H. Bland Jr.*

Assistant Secretary.

CURTIS J. LITTLE  
CONSULTING GEOLOGIST  
TELEPHONE (505) 268-8741  
POST OFFICE BOX 8976  
4300 SILVER AVENUE, S. E.  
ALBUQUERQUE, NEW MEXICO 87108

March 13, 1969

Mr. John Bannister  
State of Arizona  
Oil and Gas Conservation Commission  
1624 Adams Street  
Phoenix, Arizona 85007

Dear John:

Enclosed are Well Completion Reports on the No. 1 Tohotso and the  
No. 1-15.

Should there be any further requirements, please advise.

If not, we would appreciate a letter to terminate bonds on said wells.

Thank you.

Yours very truly,

  
Curtis J. Little

abl  
encls

~~Sample~~  
Site inspection by Sewlock  
with photo -

Release bond / 98 verbal 3/14/69



480  
478

X-Lambert Log  
X-Chelono Log

March 10, 1969

Mr. Curtis J. Little  
P. O. Box 8976  
4300 Silver Avenue, S. E.  
Albuquerque, New Mexico 87108

Re: Little #1 Navajo Tohotso  
T35N, R29E, G & SRM  
Sec. 25: SW/4 SW/4  
Apache County, Arizona  
Permit #478

Doherty #1-15 Navajo  
T7N, R7W, G & SRM  
Sec. 15: SE/4 SE/4  
Apache County, Arizona  
Permit #480

Dear Mr. Little:

The Well Completion Report Form pertaining to the Little #1 Navajo Tohotso was due 60 days from 12-28-68 which falls on February 26, 1969. The Completion Form on the Doherty #1-15 Navajo was due 60 days from January 8, 1969. We reckon that date to be today, March 10, 1969. Please submit these Well Completion forms.

Enclosed is a photocopy of a publication we furnished you at another time, Forms--When To File.

Yours truly,

James A. Lambert  
Administrative Assistant

JAL:jf

Enc.

N. B. The electric logs are to be filed within 90 days after completion date. Please comply.

February 3, 1969

Mr. Curtis J. Little  
P. O. Box 8978  
4300 Silver Avenue, S. E.  
Albuquerque, New Mexico 87108

Re: Doherty #1-15 Navajo  
T7N, R7W, G & SRM  
Sec. 15: SE/4 SE/4  
Apache County, Arizona  
Permit #480

Dear Curtis:

You win. You're O.K. at this time with the Commission. By habit I am 'antsy' about these things. By regulation your Form 4 is on time if received by March 10 and the other items by April 6.

Enclosed is a copy of my follow-up on the Little #1 Navajo Tohotao. You can see how I have the situation set up.

Yours truly,

James A. Lambert  
Administrative Assistant

JAL:jf

Enc.

480 + 478

CURTIS J. LITTLE  
CONSULTING GEOLOGIST  
TELEPHONE (505) 268-8741  
POST OFFICE BOX 8976  
4300 SILVER AVENUE, S. E.  
ALBUQUERQUE, NEW MEXICO 87108

January 30, 1969

Mr. James A. Lambert  
State of Arizona Oil & Gas Conservation Commission  
Room 202  
1624 W. Adams  
Phoenix, Arizona 85007

Re: Doherty No. 1-15 Navajo  
Section 15, T-7-N, R-7-W  
Apache County, Arizona

Dear Jim:

I have not yet filed completion report on subject well because the rig is still over the hole. I had intended to file same as soon as rig is off and I am able to clean-up location and make final report of the clean-up. If this is not in accordance with your rules and regulations, I would appreciate your advising me.

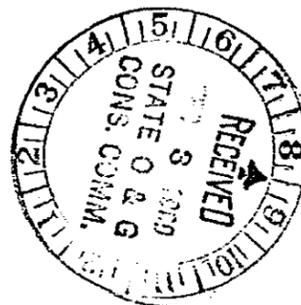
Regarding your form No. 4, the Navajo Tribe was not consulted regarding acceptance of subject well for water. I was instructed by Mr. P. T. McGrath, District Engineer, United States Geological Society to plug subject well in the manner reported. What I do now?

Yours truly,



Curtis J. Little

CJL/abl  
cc: P. T. McGrath



*PS - Same also for the No 1 Tebitso*

480  
478

January 24, 1969

Mr. Curtis J. Little  
P. O. Box 8976  
Albuquerque, New Mexico 87108

Re: Doherty #1-15 Navajo  
T7N, R7W, G & SRM  
Sec. 15: SE/4 SE/4  
Apache County, Arizona  
Permit #480

Dear Mr. Little:

We received the Induction-Electrical Log and the  
Borehole Compensated Sonic Log this date.

In reference to our letter of January 9, 1969, we  
are still awaiting our Form #4, a water well  
acceptance form, and any core or DST reports you  
may have.

Yours truly,

James A. Lambert  
Administrative Assistant

jf

480

641 WEST BROADWAY

# FOUR CORNERS SAMPLE CUT ASSOCIATION

P. O. BOX 899  
FARMINGTON, NEW MEXICO 87401

January 15, 1969

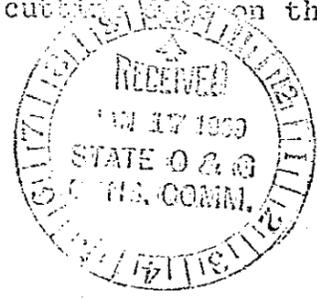
Mr. Jim Scurlock  
Oil & Gas Conservation Commission  
State of Arizona  
Room 202  
1524 West Adams  
Phoenix, Arizona 85007

Dear Jim:

The following wells from Arizona have been delivered to the cut within the past two weeks.

- 4780 E.F. Doherty, #1-15 Navajo  
Sec.15-7N-7W  
Apache Co. Arizona
- 478 C.Little & E.Richardson, #1 Tohotso  
Sec.25-35N-29E  
Apache Co. Arizona
- 4781 Consolidated, Navajo #2-41-28-13  
Sec.2-21N-28E  
Apache Co. Arizona
- 4777 Union Oil, #1-166 Navajo  
Sec.20-6N-6W  
Apache Co. Arizona (Tite at present)

Since these have not been sent out on an order list I can not give you a cutting on these.



Very truly yours,  
*Jo Ratcliff*  
Jo Ratcliff  
Manager

January 9, 1969

Mr. Curtis J. Little  
P. O. Box 8976  
Albuquerque, New Mexico 87108

Re: Doherty #1-15 Navajo  
T7N, R7W, G & SRM  
Sec. 15: SE/4 SE/4  
Apache County, Arizona  
Permit #480

Dear Mr. Little:

The Sundry Notices and Reports on Wells Form that you submitted to the U.S.G.S. and this Commission states that the captioned well has been plugged and abandoned. In order to make this Commission's records complete, we require a copy of our Form #4, Well Completion Report, which is enclosed for your convenience. Both sides of this form must be completed before it will be acceptable. We also require a copy of all logs, cores, DST's, samples, etc. that were run on this well.

It was reported that the well was given to the Indians for use as a water well. Please have the Indians furnish us a Water Well Acceptance Form. We are enclosing our Water Well Acceptance Form for your convenience. However, it has been our experience that they prefer to make their own statement of acceptance for a well that is to be used as a water well. Please furnish us with such a statement.

Yours truly,

James A. Lambert  
Administrative Assistant

jf  
Enclosures

Well PAID

CURTIS J. LITTLE  
CONSULTING GEOLOGIST  
TELEPHONE (505) 268-8741  
POST OFFICE BOX 8976  
4300 SILVER AVENUE, S. E.  
ALBUQUERQUE, NEW MEXICO 87108

December 13, 1968

Mr. John Bannister  
Oil and Gas Conservation Commission  
State of Arizona  
1624 W. Adams  
Room 202  
Phoenix, Arizona

Dear John:

Enclosed herewith are two copies of the Surveyor's plat for E. F. Doherty's well in Section 15, Township 7 North, Range 7 West, Apache County, Arizona.

Please let us know is there is any further information that we should forward.

Sincerely,



Anne B. Little

abl  
encls



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