

CONFIDENTIAL
Release Date 7/28/69

P-W

LITTLE #1 ~~TOHOTO~~ TOHOTO-*Mar*
SW-SW Sec. 25-35N-29E Apache Count

s1

COUNTY Apache AREA 2 1/2 m. E/Lukachukai LEASE NO. Navajo Tribal
14-20-0603-762

WELL NAME Little #1 ~~Navajo~~ Tohotso-Nav

LOCATION SW/4 SW SEC 25 TWP 35N RANGE 29E FOOTAGE 990' FSL 610' FWL

ELEV 7066' GR 7078' KB SPUD DATE 12-14-68 STATUS _____ TOTAL _____
COMP. DATE 12-28-68 DEPTH 3867'

CONTRACTOR Loffland Brothers

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY	DRILLED BY CABLE TOOL	PRODUCTIVE RESERVOIR	INITIAL PRODUCTION
<u>9 5/8"</u>	<u>183'</u>	<u>150 SKS</u>	<u>NA</u>	<u>X</u>			

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
<u>Triassic Chinle</u>	<u>Surface</u>	<u>X</u>	<u>X</u>	
<u>Dechelly</u>	<u>970'</u>			
<u>Supai</u>	<u>1800'</u>			
<u>Hermosa</u>	<u>2758'</u>			
<u>Mississippian</u>	<u>3388'</u>			
<u>Elbert</u>	<u>3600'</u>			
<u>McCracken</u>	<u>3760'</u>			
<u>Aneth</u>	<u>3807'</u>			
<u>Cambrian</u>	<u>3828'</u>			
<u>Pre-Cambrian</u>	<u>3838'</u>			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
<u>Formation Density, IES/GR</u>	<u>NA</u>	<u>NA</u>	<u>Am Strat</u>
			<u>Incut</u>
			<u>SAMPLE NO. 1506</u>
			<u>CORE ANALYSIS</u>
			<u>DSTs</u>

REMARKS Curtis Little & E. R. Richardson, joint operators

APP. TO PLUG _____
PLUGGING REP. _____
COMP. REPORT X

WATER WELL ACCEPTED BY _____

BOND CO. United States Fidelity & Guaranty Company BOND NO. 47559
DATE _____ ORGANIZATION REPORT 2-5-68
BOND AMT. \$ 5,000 CANCELLED 3-19-69
FILING RECEIPT 9560 LOC. PLAT X WELL BOOK X PLAT BOOK X
API NO. 02-001-20088 DATE ISSUED 11-1-68 DEDICATION W/2 SW/4

PERMIT NUMBER 478

(over)

CONFIDENTIAL
Release Date 7-28-69

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 Curtis Little & E. R. Richardson		Address P.O. Box 8976, Albuquerque, N.M. 87108	
Federal, State or Indian Lease Number or name of lessor if fee lease Navajo Tribal 14-20-0603-762		Well Number 1 Tohotso	Field & Reservoir Wildcat
Location 990' FSL, 610' FWL		County Apache	
Sec. TWP-Range or Block & Survey Section 25, Township 35 North, Range 29 East			
Date spudded 12-12-68	Date total depth reached 12-27-68	Date completed, ready to produce Dry	Elevation (DE, RFB, RT or Gr.) feet 7066' Gr
		Elevation of casing hd. flange 7064 feet	
Total depth 3867	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) 0-3867	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 ✓ GR-FDL ✓			Date filed 1-3-69

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	13 3/8"	9 5/8"	32.3	183	150	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	Am't. & kind of material used	Depth Interval
NA			NA	

INITIAL PRODUCTION

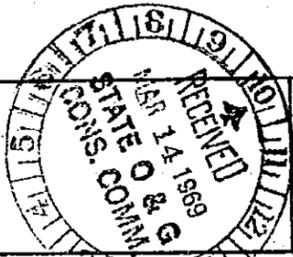
Date of first production D & A		Producing method (Indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)				
Date of test	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity ° API (Corr)
Tubing pressure	Casing pressure	Cal'd rate of Pro-duction 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 operator 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



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

Permit No. **478**

Form No. 4

File One Copy

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
Triassic			
Chinle	0	970	Sand and shale
Permian			
DeChelly	970	1800	Sand
Supai	1800	2758	Shale and siltstone
Pennsylvanian			
Hermosa	2758	3388	Limestone, sand and shale
Mississippian	3388	3600	Limestone
Devonian			
Elbert	3600	3760	Dolomite
McCracken	3760	3807	Sandstone
Aneth	3807	3828	Dolomite
Cambrian	3828	3838	Sand and shale
Pre-Cambrian	3838	3867	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 TRIPLICATE
(Other instructions on reverse side)

Form approved
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.
14-20-0603-762

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Tohotso

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

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

Sec. 25, T35N, R29E

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

1. OIL WELL GAS WELL OTHER Wildcat

2. NAME OF OPERATOR
Curtis Little & E. R. Richardson

3. ADDRESS OF OPERATOR
P.O. Box 8976, Albuquerque, New Mexico 87108

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

990' FSL 610' FWL

14. PERMIT NO.

15. ELEVATIONS (Show whether OF, AT, OR, etc.)
7066 ungraded ground

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)

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.)*

This well plugged December 28, 1968. Total Depth 3867'.

Plugged with Ideal, Type A cement as follows:

34 sx	3650 - 3550
34 sx	3425 - 3325
34 sx	2830 - 2730
34 sx	1020 - 920

Four sx left for installation of Dry Hole Marker when rig is removed from location.

Clean-up will follow removal of rig.



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

SIGNED Curtis J. Little TITLE Co-operator DATE 1-2-69

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

4 478

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
Curtis Little & E. R. Richardson

3. ADDRESS OF OPERATOR
P.O. Box 8976, Albuquerque, New Mexico 87108

4. LOCATION OF WELL. (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
990' FSL 610' FWL

14. PERMIT NO. _____

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
7066 ungraded ground

5. LEASE DESIGNATION AND SERIAL NO.
14-20-0603-762

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo Tribal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Tohotso

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 25, T35N, R29E

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 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 checked="" 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.)*

December 28, 1968

Total Depth - 3867

Plan to plug and abandon this well with cement plugs at the following intervals:

3550 - 3650

3325 - 3425

2730 - 2830

920 - 1020

Plan to plug surface and install Dry Hole Marker thereon.

Verbal approval received from P. T. McGrath of Farmington U.S.G.S. office
8:00 A.M., December 28, 1968.

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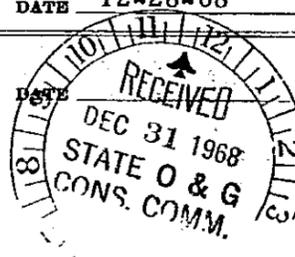
18. I hereby certify that the foregoing is true and correct

SIGNED Curtis J. Little TITLE Co-operator DATE 12-28-68

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:



*See Instructions on Reverse Side

3

MEMO: FILE
FROM: JOHN BANNISTER

12-28-68

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

Curtis Little telephoned this date giving the following tops:

Spudded in Chinle:	
DeChelly	970'
Supai	1800'
Hermosa	2780'
Molas	3306'
Mississippian	3388'
Elbert	3600'
McCracken	3730'
Pre-Cambrian	3838'
TOTAL DEPTH	3867' (Pre-Cambrian)

Plugs to be set as follows:

920 to 1020 through DeChelly
2730 to 2830 through Hermosa
3325 to 3425 through Mississippian
3550 to 3650 through Devonian

Verbal approval given this date by Commission and by USGS.


CONFIDENTIAL

Release Date _____

Tohotso No. 1

Sec 25, T 35 N, R 29 E

Apache County, Arizona

DAILY DRILLING SUMMARY

DATE _____ LOCATION _____

PAGE NO. 1

CONTRACTOR	RIG NO.	DEPTH YESTER-DAY	DEPTH TODAY	TOTAL FOOTAGE	CSG. T.D.	EST. T.D.	NO. OF DAYS	HOLE SIZE	REMARKS
LOFFLAND									December 12, 1968 Rigging up - expect to spud tonight.
									December 13, 1968 8:00 A.M. Drilling rat hole. Spudded at 1:00 A.M.
									December 14, 1968 8:00 A.M. 44' Started surface 12:01 A.M. Bit #1 - Reed 13 3/8" YT 3/8
									December 15, 1968: 8:00 A.M. WOC. TD 194'. Dev. 3/4'. Ran 6 joints 182.5' of 9 5/8", 32.30# H-40 surface csg to 184.5' ground level. Cmt'd w/ 150 sx, Class A w/ 4% Calcium Chloride. Cmt circulated. Plug down @ 1:30 A.M. Will drill plug @ 2 P.M.
									December 16, 1968: 8:00 A.M. making trip for Bit #3. Bit #2 - Smith DGTH. 7 7/8" made 1118' in 15 1/4 hrs. TD 1312' - wh sds and rd mds. Dev. 1 1/2' @ 1040. Mud weight 9#, Vis 32.
									December 17, 1968: 8:00 A.M. 1743'. Bit #3 - Smith DGTH. Dev. 1312 - 3', 1366 - 3 1/4', 1490 - 4', 1645 - 4 1/2', 1707 - 4'.
									December 18, 1968: 8:00 A.M. 2002'. Rd shale and mudstone. Drlg w/ Bit #4. Security S4TGJ. Bit #3 made 494'. Dev. - 1769 - 3 1/2', 1830 - 3 1/2'. Mud wt - 10#, Vis 35. Tentative Sample Top of Supai (Organ Rock) 1643'.

CONFIDENTIAL

8/15

478

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

14-20-0603-762

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribal

7. UNIT AGREEMENT NAME

Tohoteo

8. FARM OR LEASE NAME

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC. T. R. M. OR BLK. AND SURVEY OR AREA
Sec. 29, T35N, R29E

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
CURTIS LITTLE & E. R. RICHARDSON

3. ADDRESS OF OPERATOR
P.O. BOX 8976, ALBUQUERQUE, NEW MEXICO 87108

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
990' FSL 610' FWL

14. PERMIT NO.
15. ELEVATIONS (Show whether DF, RT, GR, etc.)
7066 ungraded ground

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"/>	

(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 notes pertinent to this work.)

Spudded December 14, 1968 at 12:01 A.M.
Drilled 13 3/8" hole to 194' KB. Set 182.5' of 9 5/8" casing at 184.5' GL and circulated 150 sx cement.
Tested casing with 500 psi for 30 minutes

CONFIDENTIAL



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

SIGNED Curtis Little TITLE Co-operator DATE December 16, 1968

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:



NUMBER 1 - TOHOTO UNIT

610' From West Line and 990' From South Line

Section 25, Township 35 North, Range 29 East

Apache County, Arizona

Elevation - 7066 Ground, ungraded
- 7078 KB, estimated

WELL PROGNOSIS

<u>FORMATION</u>	<u>SUB-SEA</u>	<u>THICKNESS</u>	<u>DEPTH TO TOP</u>
Triassic			
Moenkopi	+ 7078	916	0
Permian			
DeChelly	+ 6162	943	916
Supai	+ 5219	875	1859
Pennsylvanian			
Hermosa	+ 4344	363	2734
Barker Creek	+ 3981	181	3097
Mississippian	+ 3800	206	3278
Devonian			
Elbert	+ 3594	136	3484
McCracken	+ 3458	160	3620
Aneth	+ 3298	93	3780
Cambrian	+ 3205	27	3873
Pre-Cambrian	+ 3178	10	3900
TOTAL DEPTH			3910



GARRETT
FREIGHTLINES, INC.



"Excellence of Service"

ALBUQUERQUE, NEW MEXICO
Phone: 344-3568

MOAB, UTAH
Phone: 253-9261

J. B. —

This hole is to be
drilled "tite".

Thank you.

Carla Little



478

APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

APPLICATION TO DRILL

RE-ENTER OLD WELL

CURTIS LITTLE & E. R. RICHARDSON, Joint Operators

NAME OF COMPANY OR OPERATOR

P.O. BOX 8976, ALBUQUERQUE NEW MEXICO 87108

Address City State

Drilling Contractor Not selected at this time - will furnish when contract let.

Address

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or if fee lease, name of lessor Navajo Tribal 14-20-0603-762	Well number 1 Tohotso	Elevation (ground) 7066
Nearest distance from proposed location to property or lease line: 610 feet	Distance from proposed location to nearest drilling completed or applied—for well on the same lease: None feet	
Number of acres in lease: 640	Number of wells on lease, including this well, completed in or drilling to this reservoir: None	

If lease, purchased with one or more wells drilled, from whom purchased: Name Address

Well location (give footage from section lines) **990/FSL 610/FWL** Section—township—range or block and survey **Section 25, T35N, R29E** Dedication (Comply with Rule 105) **W/2 SW/4**

Field and reservoir (if wildcat, so state) **Wildcat** County **Apache**

Distance, in miles, and direction from nearest town or post office
2 1/2 miles east of Lukachukai.

Proposed depth: **3900'** Rotary or cable tools **Rotary** Approx. date work will start **November 1, 1968**

Bond Status **Filed** Organization Report **On file X Or attached** Filing Fee of \$25.00 **Attached X**

Remarks:
\$25.00 fee enclosed.

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the operator of the drilling unit (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.



Signature Curtis J. Little
CURTIS J. LITTLE
Date **October 29, 1968**

Permit Number: 478
Approval Date: 11-1-68
Approved By: John Bannister

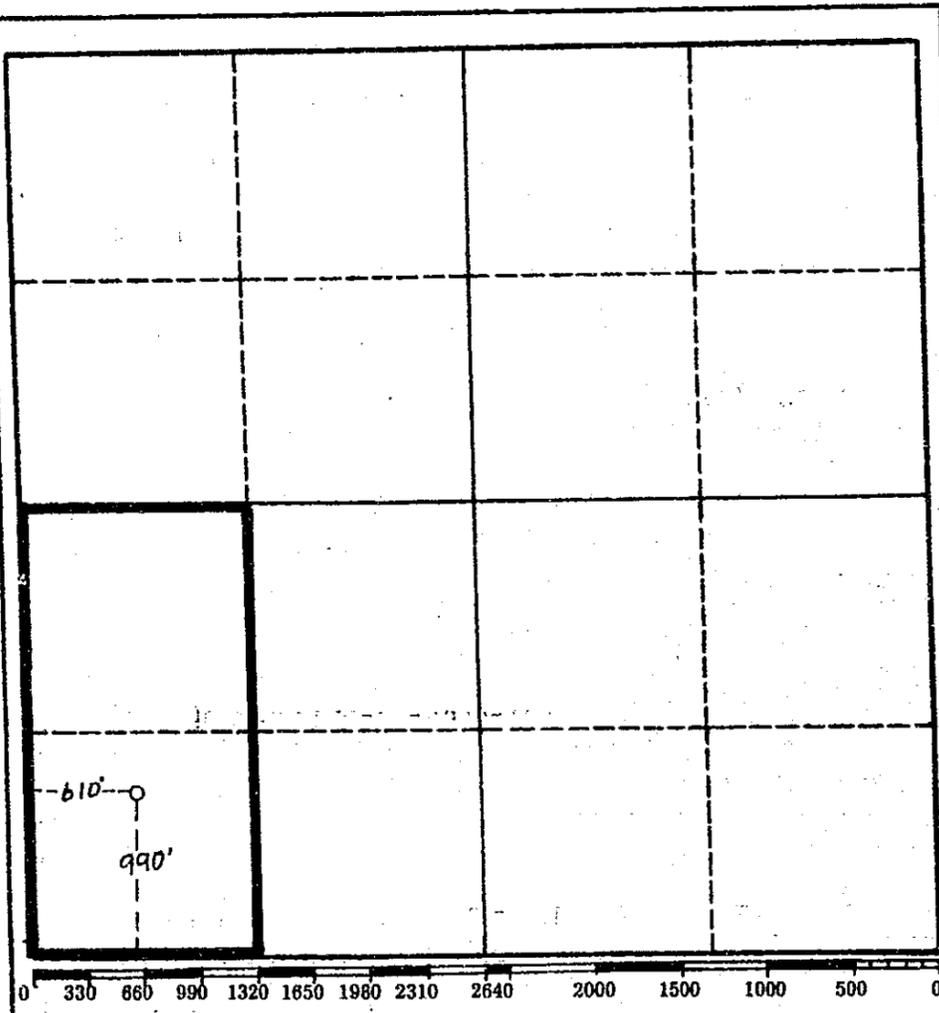
**STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION**
Application to Drill or Re-enter
File Two Copies

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

Form No. 3

- 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 X
- If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES X NO _____. If answer is "yes," Type of Consolidation Drilling Unit
- If the answer to question four is "no," list all the owners and their respective interests below:

Owner	Curtis J. Little & E. R. Richardson	Land Description	50.00%
	The Superior Oil Company		37.50%
	Dalco Oil Company		12.50%



CERTIFICATION

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Curtis J. Little
Name CURTIS J. LITTLE

Position Co-Operator

Company Individuals

Date October 29, 1968

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.

Date Surveyed October 10, 1968

Registered Professional Engineer and/or Land Surveyor

Ernest V. Echohawk

Certificate No. 2311

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
9 5/8"	36	J-55	2	202	Circulated	60 sx
5 1/2"	15.5	J-55	2	3600	900'	125 sx

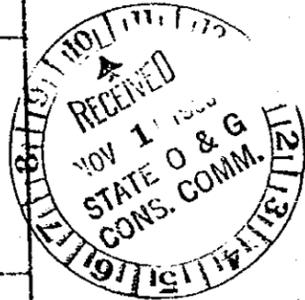
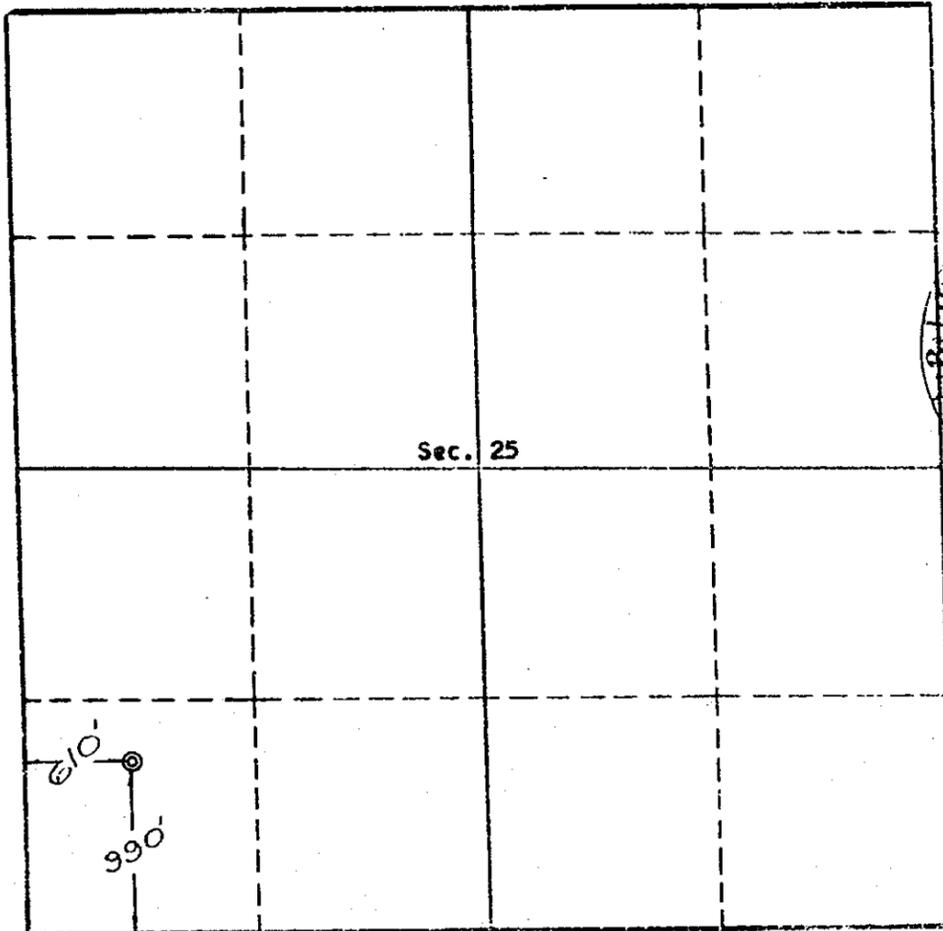
Company **CURTIS LITTLE & E. R. RICHARDSON**

Well Name & No. **Tohotso No. 1**

Location **990 feet from the South line and 610 feet from the West line.**

Sec. **25** T **35** N. R. **29** E. G. & S. R. M., County **Apache** Arizona

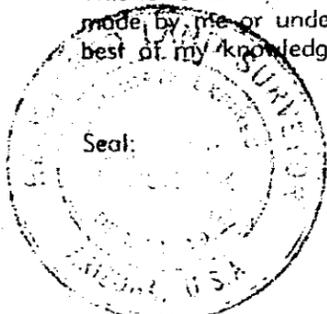
Ground Elevation **7066, ungraded.**



Scale, 1 inch = 1,000 feet

Surveyed **October 10,** _____ 19 **68**

This is to certify that the above plot 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.



Ernest V. Echohawk

Ernest V. Echohawk
Registered Land Surveyor
Arizona Registration No. 2311

478



PERMIT TO DRILL

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

To: CURTIS LITTLE & E. R. RICHARDSON (JOINT OPERATORS)
(OPERATOR)

to drill a well to be known as

LITTLE #1 NAVAJO TONOTSO

(WELL NAME)

located 990' FSL - 610' FWL

Section 25 Township 36N Range 29E, Apache County, Arizona.

The W/2 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 1st day of November, 19 68.

OIL AND GAS CONSERVATION COMMISSION

By John Linnister
EXECUTIVE SECRETARY

PERMIT N^o 478

RECEIPT NO. 9560
API 02-001-2088

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

SAMPLES ARE REQUIRED

X-Chesno
X-Lambert

May 7, 1969

Mr. E. R. Richardson
2929 Monte Vista Boulevard, N. E.
Albuquerque, New Mexico 87106

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

Dear Mr. Richardson:

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 Little #1 Navajo Tohotso.

Yours truly,

James A. Lambert
Administrative Assistant

3f

Enc.

478

E. R. Richardson
2929 MONTE VISTA BOULEVARD, N.E.
ALBUQUERQUE, NEW MEXICO 87106
TELEPHONE 256-7684

May 5, 1969

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

Dear John:

42
All of our USGS and Conservation Commission reports covering the
Tohotso No. 1 in Section 25, Township 35 North - Range 29 East,
Apache County, have now been filed and the location and roads
levelled and restored.

Will you please cancel Curtis' and my performance bond, U. S.
Fidelity & Guaranty Company, serial 47559 and furnish me evidence
of cancellation in order that i can pass it on to the Guaranty
Company.

Yours very truly,

Mike

E. R. Richardson

ERR:ln
cc Curtis J. Little



478

X-Vison
X-Lambert

March 19, 1969

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

Re: Little #1 Navajo Tohotso
T35N, R29E, G & SRM
Sec. 25: SW/4 SW/4
Apache County, Arizona
Permit #478
Bond #47559

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 captioned bond effective this
date.

Yours truly,

John Bannister
Executive Secretary

JAL:jf

cc: Mr. Curtis J. Little

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS

Bond Serial No. 47559

That we: E. R. Richardson and Curtis J. Little

of the County of Bernalillo in the State of New Mexico

as principal, and United States Fidelity & 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 (\$5,000.00) Dollars 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:

Section 25, Township 35 North, Range 29 East, Apache County, 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 4th day of October, 1968



[Signature]

[Signature] Principal

WITNESS our hands and seals this 4th day of October, 1968

United States Fidelity & Guaranty Company

[Signature] Paul Billingham, Attorney-In-Fact

[Signature] Surety

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 11-1-68 STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION By: John Gannister

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

Form No. 478

CERTIFIED COPY

GENERAL POWER OF ATTORNEY

No. 79033

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

Paul Billingham

of the City of Albuquerque, State of New Mexico, its true and lawful attorney 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 the said

Paul Billingham

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 15th day of March, A. D. 1968



UNITED STATES FIDELITY AND GUARANTY COMPANY.

(Signed) By John Hamilton, Vice-President.

(Signed) David M. Engler, Assistant Secretary.

STATE OF MARYLAND, BALTIMORE CITY.

On this 15th day of March, A. D. 1968, before me personally came John Hamilton, Vice-President of the UNITED STATES FIDELITY AND GUARANTY COMPANY and David M. Engler, 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 John Hamilton and David M. Engler 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 day in July, A. D. 1969.

(Signed) Herbert J. Aull, Notary Public.

STATE OF MARYLAND, BALTIMORE CITY, }

Sct.

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 Herbert J. Aull, Esquire, before whom the annexed affidavits were made, and who has thereto 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, duly 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 15th day of March, A. D. 1968

(Signed) James F. Carney, Clerk of the Superior Court of Baltimore City.

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 **Paul Billingham**

of **Albuquerque, New Mexico**, authorizing and empowering **him** 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 **October 4, 1968.**
(Date)

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.

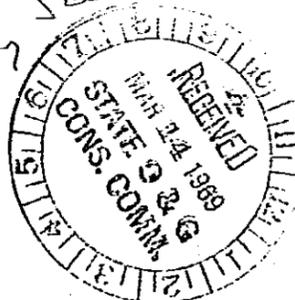
Yours very truly,


Curtis J. Little

abl
encls

480
475

Site inspection ad photo by Seubach
Not rec'd 4B on 3/14/69



X - Lambert log
X - Chrono 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,

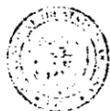
James A. Lambert
Administrative Assistant

JAL:jf

Enc.

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

478



OFFICE OF
Oil and Gas Conservation Commission
 STATE OF ARIZONA
 ROOM 202
 1624 WEST ADAMS
 Phoenix, Arizona 85007
 PHONE: 271-5161

March 3, 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

Dear Mr. Little:

Please submit our Well Completion Report form. Both sides are to be completed. You were notified that this report was due on or before February 26, 1969. Please bring yourself into compliance with the Rules and Regulations of the Oil and Gas Conservation Commission of the State of Arizona.

Yours truly,

J. A. Lambert

James A. Lambert
 Administrative Assistant

JAL:jf



P. S. I missed seeing you in Window Rock last week.

Jim -
 Sorry about this - Still so muddy we
 Can't get Cat into location to clean up. Please
 set me straight - I thought that your rules
 stated that must submit within 6 months after
 D&H which was 12-28-68 Curtis

X-Lambert Log
X-Chrono Log

March 3, 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

Dear Mr. Little:

Please submit our Well Completion Report form. Both sides are to be completed. You were notified that this report was due on or before February 26, 1969. Please bring yourself into compliance with the Rules and Regulations of the Oil and Gas Conservation Commission of the State of Arizona.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jf

P. S. I missed seeing you in Window Rock last week.

February 3, 1969

Mr. Curtis J. Little
P. O. Box 8976
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 8.

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

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jf

Enc.

Form 4 due on 2/24/69

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.

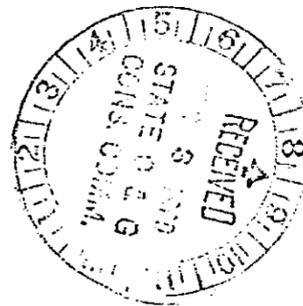
Regarding your form No. 4, the Navajo Tribe was not consulted regarding acceptance of subject well for water. I was instructed by Mr. P. T. McGrath, District Engineer, United States Geological Society to plug subject well in the manner reported. What I do now?

Yours truly,



Curtis J. Little

CJL/abl
cc: P. T. McGrath



PS - Same also for the #1 Toilet

480
478

January 30, 1969

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

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

Dear Mr. Little:

We call attention to our letter dated January 10.
Please submit Well Completion Report and the other
items we requested you to submit by that letter.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jf

~~476~~ 478

PHONE: 325-9232

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
1624 West Adams
Phoenix, Arizona 85007

Dear Jim:

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

480 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

481 Consolidated, Navajo #2-41-28-13
Sec.2-21N-28E
Apache Co. Arizona

477 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 10, 1969

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

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

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.

Yours truly,

James A. Lambert
Administrative Assistant

Jf

Enc.

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UNITED STATES FIDELITY AND GUARANTY COMPANY
PHOENIX OFFICE
3605 N. 7TH AVENUE, PHOENIX, ARIZONA 85013
TELEPHONE: 602/CRESTWOOD 7-4411

T. D. GIBSON
MANAGER

October 21, 1968

Oil & Gas Conservation Commission
1624 West Adams
Phoenix, Arizona

Re: Bond No. 47559
Principal: E.R. Richardson & Curtis J. Little
Amount: \$5,000.00
Effective Date: 10-4-68

Gentlemen:

At the request of our New Mexico Branch Office,
we are attaching herewith original of the above captioned
bond, properly executed and countersigned, for filing.
We trust you will find same to be in proper order.

Thank you for your assistance in this matter.

Yours Sincerely,

Glenna Crum
Bond Department

Enclosure

CC: Paul Billingham, Inc. Real Estate & Insurance

