

~~CONFIDENTIAL~~
MOORE & MILLER #1 HOP



P-11

Moore, Moore & Miller #1 Hopi 321
NWNW 6-29N-15E Coconino County

s1

COUNTY Coconino AREA 22 mi Tuba City LEASE NO. 14-20-0450-5077

WELL NAME Moore, Moore & Miller #1 Hopi

LOCATION NW NW SEC 6 TWP 29N RANGE 15E FOOTAGE 660' FNL 660 FWL

ELEV 5634' GR 5648' KB SPUD DATE 9-22-65 STATUS TOTAL DEPTH 6998'
COMP. DATE 10-24-65

CONTRACTOR Moran Bros (Wichita Falls)

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY	<u>x</u>
<u>9 5/8</u>	<u>993'</u>	<u>circ (800 sx)</u>	<u>NA</u>	DRILLED BY CABLE TOOL	<u> </u>
				PRODUCTIVE RESERVOIR	<u> </u>
				INITIAL PRODUCTION	<u>D&A</u>

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Shinarump	3010'		x	
Moenkopi	3125'			
Kiabab	3230'			
Coconino	3395'			
Supai	4817'			
Hermosa	5712'			
Mississippi	6085'			
Elbert	6288'			
McCracken	6500'			
Aneth	6529'			
Bright Angl	6722'			
Tapeats	6750'			
Pre-Cambrian	6972'			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG <u>Am Strat</u>
<u>Sonic GR/ IE, Formation</u>	<u>NA</u>	<u>NA</u>	SAMPLE DESCRP. <u> </u>
<u>Tester</u>			SAMPLE NO. <u>Tuc. 3037 1/17/67</u>
			CORE ANALYSIS <u> </u>
			DSTs <u> </u>

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

WATER WELL ACCEPTED BY

BOND CO. Fidelity & Deposit Co. of Maryland BOND NO. 56 69 627

BOND AMT. \$ 2500 CANCELLED 12-14-65 DATE 8-17-65

FILING RECEIPT 9419 LOC. PLAT x WELL BOOK x PLAT BOOK x

API NO. 02-005-05083 DATE ISSUED 8-23-65 DEDICATION W/2 NW/4

PERMIT NUMBER 321

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: Moore Moore & Miller Address: 3101 Liberty Bank Bg., Okla. City, Okla.

Federal, State or Indian Lease Number or name of lessor if fee lease: 14-20-0450-5077 Well Number: 1 Field & Reservoir: Wildcat

Location: NW NW Section 6 County: Coconino

Sec. TWP-Range or Block & Survey: Section 6-29N-15E

Date spudded: 9-22-65 Date total depth reached: 10-22-65 Date completed, ready to produce: D & A Elevation (DE, RCB, RT or Gr.) feet: KB 5648 Elevation of casing hd. range feet: _____

Total depth: 6998' P.B.T.D.: _____ Single, dual or triple completion?: Dry Hole If this is a dual or triple completion, furnish separate report for each completion: _____

Producing interval (s) for this completion: Dry Hole Rotary tools used (Interval): 0 - 6998' 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): Schlumberger Sonic Log-Gamma Ray & Induction Elec. Log Date filed: No t. 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 asg.	13 3/4"	9 5/8"		993'	800	none

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: _____ 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 Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio

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

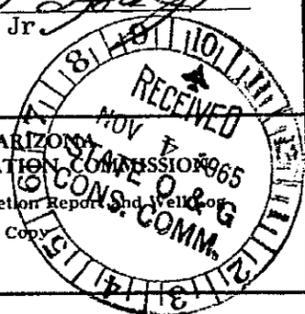
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the partner of the Moore Moore & Miller (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Date: 11-1-65 Signature: Rex R. Moore, Jr.

CONFIDENTIAL

Release Date: 4-24-66
Permit No. 321

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



DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
Shinarump	3010	3125	Sand
Moenkopi	3125	3230	Shale
Kiabab	3230	3260	Lime
	3260	3395	Shale
Coconino	3395	4817	Sand
Supi	4817	-	Shale
Hermosa	5712	-	Sandy Shale
Mississippi	6085	6288	Lime & Dolomite
Elbert	6288	-	Lime & Dolomite
McCraken	6500	6529	Sand
Aneth	6529	6722	Lime & Dolomite
Bright Angel	6722	6750	Shale & Dolomite
Tapeats	6750	6972	Sand
Pre-Cambrian	6972	6998	Granite

* 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 driller's 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.

321
ARIZONA
COCONINO CO.
WILDCAT (W)



Petroleum Information Corp.
Denver, Colorado
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Twp 29n-15e
Section 6
NW NW
660 s/n 660 e/w

OPR: Moore, Moore & Miller

WELL #: 1 Hopi

ELEV: 5648 KB

DSTS. & CORES:

SPUD: 9-23-65 COMPL: 10-24-65

TOPS: Log ~~SAMPLES~~
Navajo surf to TD,
Kayenta 1100, Wingate
1280, Chinle 1875,
Shinarump 3012,
Moenkopi 3125,
Kaibab 3232, Coconino
3395, Supai 4617, Red
Wall 6085, Elbert 6285,
McCracken 6500, Aneth
6529, Bright Angel
6722, Tapeats 6750,
Granite Wash 6930, pre-
Cambrian 6972.

No cores. WLT 6680-83, open
25 mins, rec 19,300 cc salty
sulfur wtr, SIP 2320-2270#.
WLT 3408-11, open 14 mins,
rec 20,350 cc filtrate wtr,
SIP 820-800#.

TD: 7000 PB:
CSG: 9-5/8" @ 993 w/800

PERF:

PROD. ZONE:

INIT. PROD: D&A

Contr: Moran Bros.

(RE-ISSUED CARD) - Corr elev from 5634 Gr, TD from 6998 & delete (Tight hole).

ARIZ-661350

PLUGGING RECORD					
Operator MOORE MOORE & MILLER			Address 3101 Liberty Bank Bldg.		
Federal, State, or Indian Lease Number. or lessor's name if fee lease. 14-20-0450-5077		Well No. 1	Field & Reservoir Wildcat		
Location of Well NW NW Section 6-29N-15E				Sec-Twp-Rge or Block & Survey	County Coconino
Application to drill this well was filed in name of Moore Moore & Miller		Has this well ever produced oil or gas no	Character of well at completion (initial production): Oil (bbls/day) Gas (MCF/day) Dry? Dry		
Date plugged: 10-24-65		Total depth 6998'	Amount well producing when plugged: Oil (bbls/day) Gas (MCF/day) Water (bbls/day)		
Name of each formation con- taining 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	
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
9 5/8"	993'	0	993'		
Was well filled with mud-laden fluid, according to regulations? yes			Indicate deepest formation containing fresh water. not known		
NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE					
Name	Address		Direction from this well:		
Pennzoil Company	1007 Midland Saving Bg., Midland, Tex.		West		
Kerr-McGee Oil Ind.	Kerr-McGee Building, Okla. City, Okla.		West		
Gulf Oil Company	200 W. 1st St., Roswell, New Mexico		North		
Kewanee Oil Co.	P. O. Box 2239, Tulsa, Oklahoma		West		
W. C. McBride, Inc.	805 Mayo Bldg., Tulsa, Oklahoma		West		
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.					
10-24-65 Halliburton spot cement plugs 6200 to 6300; 5750 to 5850; 4750 to 4850;					
3350 to 3450; and 943 to 1043.					
Use reverse side for additional detail.					
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the <u>partner</u> of the					
Moore Moore & Miller (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.					
11-1-65		Signature Rex R. Moore, Jr.			
Date					
CONFIDENTIAL			STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Plugging Record File One Copy		
Released to: 4-24-66			RECEIVED NOV 4 1965 STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION		
Permit No. 321			Form No. 10		

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APPLICATION TO ABANDON AND PLUG

FIELD Wildcat
OPERATOR Moore Moore & Miller ADDRESS 3101 Liberty Bank Bldg., Okla. City, Okla.
Federal, State, or Indian Lease Number or Lessor's Name if Fee Lease 14-20-0450-5077 Hopi WELL NO. 1
SURVEY 29N - 15E SECTION 6 COUNTY Coconino
LOCATION NW NW Section 6-29N-15E

TYPE OF WELL Dry Hole TOTAL DEPTH 6998'
(Oil, Gas or Dry Hole)
ALLOWABLE (If Assigned)
LAST PRODUCTION TEST OIL _____ (Bbls.) WATER _____ (Bbls.)
GAS _____ (MCF) DATE OF TEST _____

PRODUCING HORIZON _____ PRODUCING FROM _____ TO _____
1. COMPLETE CASING RECORD 9 5/8 at 993' with 800 sacks cement by Halliburton
Cement circulate

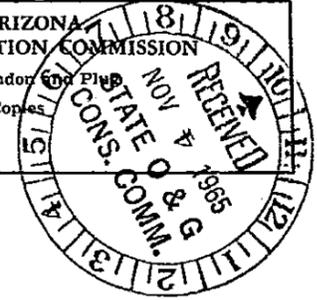
2. FULL DETAILS OF PROPOSED PLAN OF WORK Halliburton spot cement plugs 6200-6300;
5750-5850; 4750-4850; 3350 to 3450 and 943 to 1043. Contractor weld screw-joint
and marker on top of surface casing as prescribed by U.S.G.S.

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 10-24-65
NAME OF PERSON DOING WORK Halliburton ADDRESS Farmington, New Mexico
CORRESPONDENCE SHOULD BE SENT TO Moore Moore & Miller, 3101 Liberty Bank Bldg., O.C.
Name
Title Operator
Address
Date 11-1-65

Date Approved 11-5-65
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By: John V. Bannister
Permit No. 321

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



CONFIDENTIAL

Release Date 4-24-66

OK JAS

5

DRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Moore Moore & Miller, 3101 Liberty Bank Bldg., Oklahoma City, Oklahoma 73102
 2. OIL WELL GAS WELL OTHER (Specify) Dry Hole
 3. Well Name Hopi #1
 Location NW NW
 Sec. 6 Twp. 29N Rge. 15E County Coconino, Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-0450-5077
 5. Field or Pool Name Wildcat

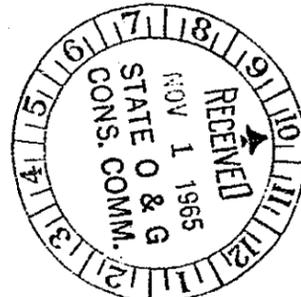
6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

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"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <input type="checkbox"/>	ABANDONMENT <input checked="" type="checkbox"/>

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

7. 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.)

10-24-65 Halliburton spot cement plugs 6200' to 6300'; 5750' to 5850'; 4750' to 4850'; 3350' to 3450' and 943' to 1043'. Contractor weld screw - joint and marker on top of surface casing as prescribed by U.S.G.S.



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

Signed [Signature] Title Partner Date 10-27-65

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Release Date 4-24-66
 Permit No. 321

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
 File Two Copies
 Form No. 25

DRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Moore Moore & Miller
 2. OIL WELL GAS WELL OTHER (Specify) Drilling
 3. Well Name Hopi #1
 Location NW NW
 Sec. 6 Twp. 29N Rge. 15E County Coconino, Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease. 14-20-0450-5077
 5. Field or Pool Name Wildcat

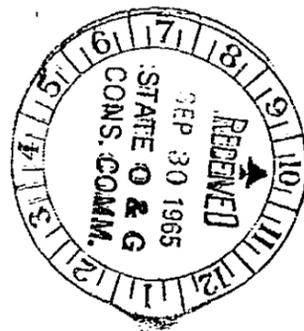
6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

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"/>	MONTHLY PROGRESS <input checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) _____	ABANDONMENT <input type="checkbox"/>

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

7. 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.)

Set 993 feet of 9 5/8" surface casing and circulated 800 sacks of cement with 2% calcium Chloride on September 24, 1965. Plug down at 12:15 PM. Pressured up to 800 pounds on surface casing and pressure held. Drilling at 3302 feet on September 28, 1965.



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

Signed [Signature] Title Partner Date 9-28-65

CONFIDENTIAL

Release Date _____
 Permit No. 321

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
 File Two Copies
 Form No. 25

APPLICATION FOR PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER

APPLICATION TO DRILL DEEPEN PLUG BACK RE-ENTER OLD WELL

NAME OF COMPANY OR OPERATOR

DATE August 17, 1965

Moore, Moore & Miller

Address

City

State

3101 Liberty Bank Bldg., Oklahoma City, Oklahoma 73102

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number or name of lessor. If fee lease
14-20-0450-5077 Hopi

Well number
1

Elevation (ground)
5634'

Well location and acreage dedicated to the well (give footage from section lines)

Section--township--range or block & survey

Center NW/4 NW/4 Section

1/2 NW/4 6 - 29N - 15E

Field & reservoir (If wildcat, so state)

County

Wildcat

Coconino

Distance, in miles, and direction from nearest town or post office

Approx. 22 miles East of Tuba City

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

Proposed depth:

7000'

Rotary or cable tools

Rotary

Approx. date work will start

August 24, 1965

Number of acres in lease:

1270

Number of wells on lease, including this well, completed in or drilling to this reservoir:

-

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

Name

Address

Status and amount of bond

\$2,500

Organization Report

On file

Or attached

Filing Fee of \$25.00

Attached

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone)

CONFIDENTIAL

Release Date _____

*Fill in Proposed Casing Program on reverse side

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the partner of the Moore Moore & Miller (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.



Richard D. Jones
Signature

August 17, 1965
Date

Permit Number: _____

Approval Date: _____

Approved By: John Bannister

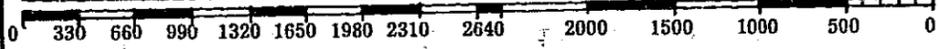
Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.
See Instruction on Reverse Side of Form

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Drill, Deepen or Plug Back and Plat
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 XX 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	Land Description
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p style="text-align: center;">660'</p> <p style="text-align: center;">660'</p> </div> <div style="border: 1px dashed black; width: 100%; height: 100%;"></div>	<p style="text-align: center;">See Attached CERTIFICATION</p> <p>I hereby certify that the information above is true and complete to the best of my knowledge and belief.</p> <p>Name _____</p> <p>Position _____</p> <p>Company _____</p> <p>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 _____</p> <p>Registered Professional Engineer and/or Land Surveyor _____</p> <p>Certificate No. _____</p>



PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
9 5/8			Surf.	1000' or in Chinle		Approx 500 or enough to circ. it.

COMPANY MOORE, MOORE, and MILLER

LEASE HOPI WELL NO. 1

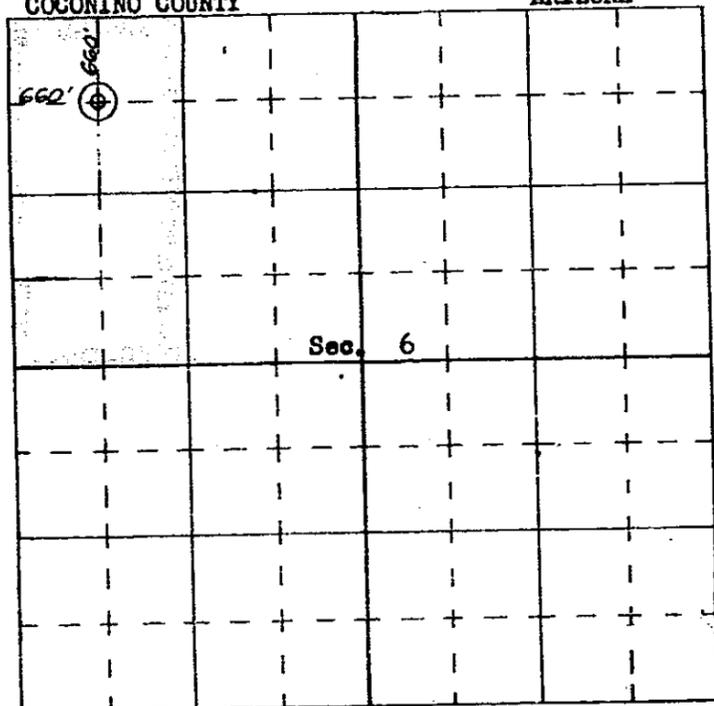
SEC. 6 T. 29 NORTH R. 15 EAST, G&SRM

LOCATION 660 Feet From The North Line and
660 Feet From The West Line

ELEVATION 5634.0 Ground

NOTE: Arizona Highway Department Ground Elevation Datum

COCONINO COUNTY ARIZONA



SCALE—1 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



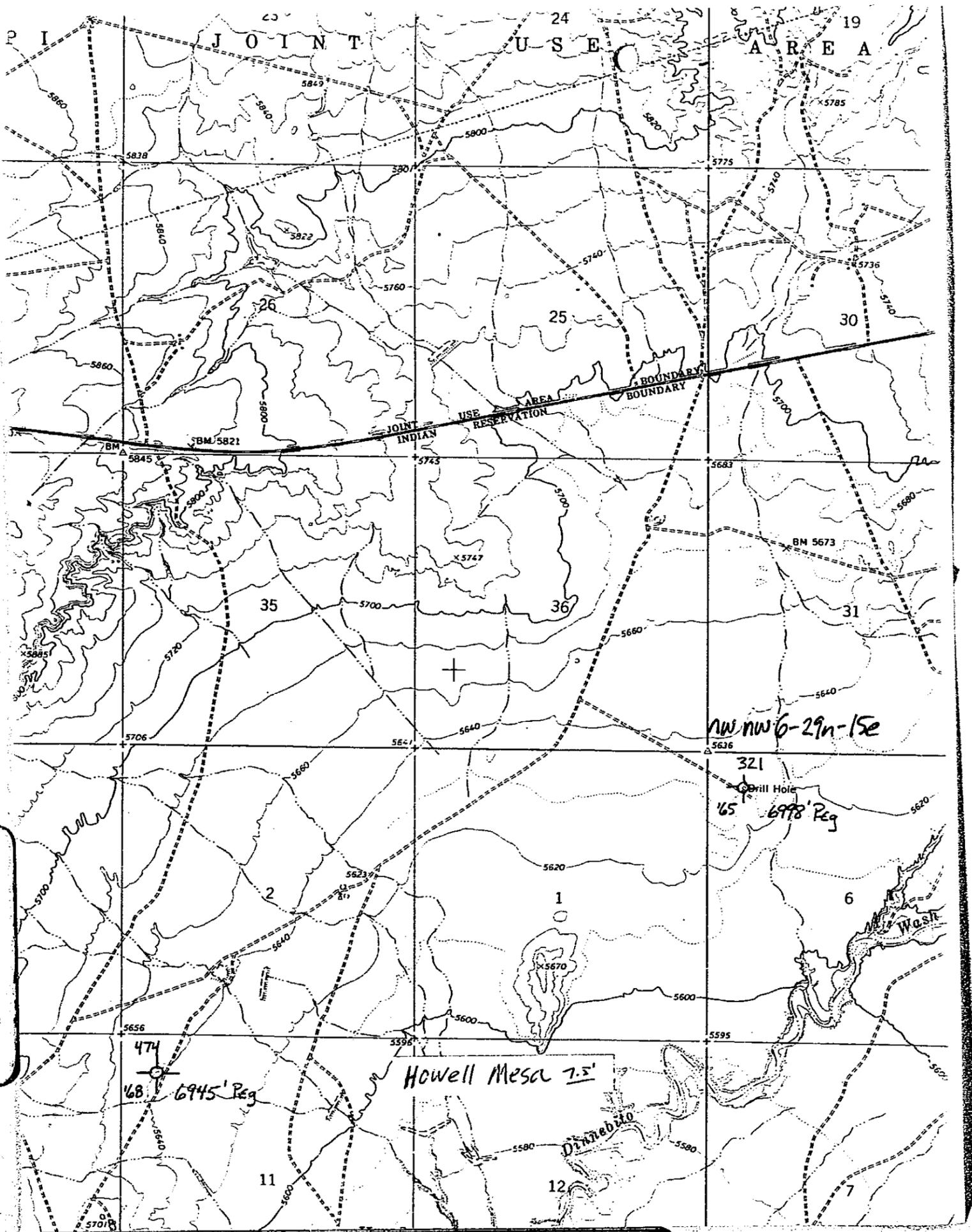
SEAL:

James P. Leese
Registered Land Surveyor,
James P. Leese, Ariz. Reg. No. 1849
San Juan Engineering Company

SURVEYED August 7, 1965

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

RECEIVED
STATE O & G
NS. COMM.
3 29 1965



ARCO Exploration
Production Technology
2300 West Plano Parkway
Plano, TX 75075-6499

July 6, 1992

Larry D. Fellows
Director and State Geologist
Arizona Geological Survey
845 North Park Ave., #100
Tucson, Arizona 85719

*file copy in each
well file 5/2 file P/W 321*

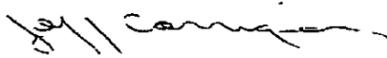
Dear Mr. Fellows,

Following the agreement set forth in the Arizona Geological Survey sample policy I am forwarding (1) the results of Rock-Eval analysis Aneth Shale cuttings samples from eight wells in the Black Mesa basin and (2) vitrinite reflectance data collected for the Amerada Hopi #1 well. We waive the rights to the six month confidentiality period.

Thank you for your cooperation.

Sincerely,

Jeff Corrigan



cc: Steve Rauzi

Table 1. Rock-Eval data for Aneth Shale from sampled Black Mesa cuttings.

Sample ID	Depth Interval (ft)	TOC (weight %)	S1 (mg/g rock)	S2 (mg/g rock)	HI (mg HC/g TOC)	OI (mg CO ₂ /g TOC)
Amerasia Hopi I (370)						
92R1477	7350-7370	0.08	0.07	0.10	125	362
92R1478	7370-7390	0.09	0.06	0.07	78	378
92R1479	7390-7410	0.07	0.04	0.01	14	514
92R1480	7410-7430	0.10	0.08	0.06	60	360
92R1481	7430-7450	0.11	0.10	0.04	36	327
92R1482	7450-7470	0.16	0.10	0.07	44	213
92R1483	7470-7490	0.13	0.06	0.02	15	246
92R1484	7490-7510	0.16	0.06	0.01	6	144
92R1485	7510-7540	0.11	0.06	0.02	18	318
92R1486	7540-7560	0.26	0.13	0.41	158	135
Cactus Navajo 8515 (325)						
92R1487	5540-5560	0.09	0.09	0.12	133	289
92R1488	5560-5580	0.04	0.11	0.03	72	563
92R1489	5580-5600	0.06	0.10	0.08	133	550
Cactus Navajo 8816 (345)						
92R1490	5540-5560	0.08	0.06	0.00	0	313
92R1491	5560-5580	0.08	0.05	0.01	13	362
92R1492	5580-5600	0.09	0.06	0.04	44	289
92R1493	5600-5620	0.07	0.05	0.02	29	429
Cactus Navajo -C2 (305)						
92R1494	4460-4480	0.08	0.06	0.04	50	425
92R1495	4480-4500	0.07	0.07	0.04	55	378
Tenneco 1 Navajo (293)						
92R1496	6870-6890	0.05	0.06	0.03	58	725
92R1497	6890-6910	0.07	0.09	0.09	123	434
92R1498	6910-6930	0.06	0.06	0.03	48	473
92R1499	6930-6950	0.08	0.06	0.04	51	464
92R1500	6950-6970	0.15	0.09	0.13	89	217
92R1501	6970-6990	0.19	0.09	0.16	85	218
92R1502	6990-7010	0.21	0.12	0.30	144	132
92R1503	7010-7030	0.32	0.17	0.64	202	88
92R1504	7030-7050	0.15	0.08	0.09	62	287
ARCO Hopi 9-1 (312)						
92R1505	6280-6300	0.11	0.14	0.18	173	323
92R1506	6300-6320	0.14	0.12	0.09	66	203
92R1507	6320-6340	0.08	0.07	0.01	12	306
92R1508	6340-6360	0.04	0.05	0.03	72	808
92R1509	6360-6380	0.13	0.08	0.01	8	220
92R1510	6380-6400	0.14	0.10	0.02	15	226
92R1511	6400-6420	0.13	0.07	0.07	56	277
92R1512	6420-6440	1.14	0.35	3.06	269	26
92R1513	6440-6460	0.31	0.15	0.59	192	115
92R1514	6460-6480	0.28	0.19	0.56	195	105
Moore, Moore & Miller (321)						
92R1515	6540-6560	0.16	0.08	0.14	90	215
92R1516	6560-6580	0.08	0.04	0.02	24	331
92R1517	6580-6600	0.08	0.06	0.04	48	380
92R1518	6600-6640	0.11	0.07	0.03	29	323
92R1519	6640-6660	0.17	0.07	0.03	18	178
92R1520	6660-6700	0.21	0.06	0.14	67	93
92R1521	6700-6710	0.21	0.09	0.42	202	98
92R1522	6710-6730	0.26	0.08	0.39	150	223
Texasco 1-A Hopi (307)						
92R1523	5650-5670	0.05	0.14	0.08	154	705
92R1524	5670-5690	0.09	0.09	0.05	53	348
92R1525	5690-5710	0.09	0.08	0.05	53	316
92R1526	5710-5730	0.13	0.15	0.09	72	237
92R1527	5730-5750	0.13	0.07	0.06	48	204

ARCO OIL + GAS CO.
PLANO
TEXAS
U.S.A.

Fax No. 010 1 214 754 6807

VITRINITE REFLECTANCE DETERMINATIONS SERIES 92R 1462 - 1486
ATTN. CHARLIE LANDIS ✓

SAMPLE No.	R.o. AVE.	No. of READINGS	COMP.	U.V.	COMMENTS
92R1462	0.39	20	C	Y-Y/O SPORES.	—
92R1463	0.43	4	C	Y SPORES	PHYT. DEGRADED
92R1464	0.43	10	C	Y SPORES	PHYT. V. DEGRADED
92R1465	N.D.P.	—	—	—	RED SILTY SST. HAEMATITE
92R1466	N.D.P.	—	—	—	RED SANDY SILT.
92R1467	N.D.P.	—	—	—	RED SILT.
92R1468	N.D.P.	—	—	—	RED MARL
92R1469	N.D.P.	—	—	—	Mxd. LIME. HAEMATITE
92R1470	N.D.P.	—	—	—	10% SST. 90% SH. HAEMATITE
92R1471	N.D.P.	N.D.P.	—	Y-Y/O CARB.	20% HAEMATITE CRYS.
92R1472	N.D.P.	—	—	—	RED SST.
92R1473	N.D.P.	—	—	—	RED SILTY SST.
92R1474	N.D.P.	—	—	Y/O CARB.	HAEMATITE
92R1475	N.D.P.	—	—	Y/O CARB.	70% HAEMATITE MARL
92R1476	N.D.P.	—	—	—	50% LST. HAEMATITE
92R1477	N.D.P.	—	—	Y/O CARB.	70% LST. + 30% RED SPURS
92R1478	N.D.P.	—	—	Y/O CARB.	70% LST.; 30% RED SPURS
92R1479	N.D.P.	—	—	L.O. CARB.	10% LST.; 90% RED SILTY SPURS
92R1480	N.D.P.	—	—	Y/O CARB.	30% MARLY LST. 70% RED SPURS

SAMPLE No.	R.O. ANAL.	No. of READING	CONF	U.V.	COMMENTS
92R 1481	N.D.P.	—	—	1/10 L.O. CARB.	10% SST.; 50% LST.; 40% RED SHALE
92R 1482	N.D.P.	—	—	1/10 CARB.	MARLY LST. HAEM. SPHERES
92R 1483	N.D.P.	—	—	1/10 CARB.	90% MARLY LST. 10% RED SHALE
92R 1484	N.D.P.	—	—	1/10 CARB.	MARLY LST. HAEMATITE TRACES
92R 1485	N.D.P.	—	—	1/10 CARB.	LST. HAEMATITE TRACES
92R 1486	N.D.P.	—	—	1/10 CARB.	SHALY LST. HAEM. TR. GRAUWACKE

SORRY. I CAN'T REALLY DO ANYTHING WITH THIS LOT. THE FIRST FEW SAMPLES ARE O.K. BUT WHEN WE GET INTO THE RED BED THE PHYTOLOGISTS DISAPPEAR. EVEN WHEN THE HAEMATITE DECREASES IN THE FINAL FEW SAMPLES, THE SUCCESSION IS ALMOST WHOLLY LIMESTONE WHICH IS BARE.

ANOTHER APOLOGY FOR THE HANDWRITING BUT THE SECRETARY IS ON HOLIDAY TODAY. I WILL COMPUSERVE THE DATA, FOR WHAT IS WORTH, LATER THIS WEEK.

BEST WISHES

MICK JONES.

KNOW ALL MEN BY THESE PRESENTS

BOND SERIAL NO. 56 59 627

That we: Rex R. Moore, Rex R. Moore, Jr. and Rosalind Moore Miller

of the County of: Oklahoma in the State of: Oklahoma

as principal, Fidelity and Deposit Company of Maryland

and Baltimore, Maryland

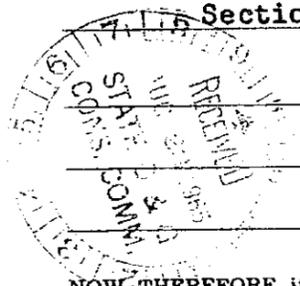
AUTHORIZED TO DO BUSINESS WITHIN the State of Arizona.

as surety, are held and firmly bound unto the State of Arizona in the penal sum as indicated, 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 is 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 6, Twp. 29 North, Rge. 15 East, Coconino County, Arizona

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



NOW, THEREFORE, if the above bounden principal shall comply with all of the provisions of the laws of this State and the rules, regulations and orders of the Oil and Gas Conservation 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 & Gas Conservation Commission all notices and records required by said Commission, 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, then this obligation is void; otherwise, the same shall be and remain in full force and effect.

Penal sum of Two Thousand Five Hundred Dollars (\$2,500.00)

Witness our hands and seals, this 17th day of August, 1965.

Witness our hands and seals, this 17th day of August, 1965

FIDELITY AND DEPOSIT COMPANY OF MARYLAND

Richard L. Thiel
Countersigning Representative

By: Charles Thiel
Attorney-in-fact Surety

(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 8-23-65
Date
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By: John Kanister

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

Permit No. 321

Power of Attorney
FIDELITY AND DEPOSIT COMPANY OF MARYLAND

HOME OFFICE: BALTIMORE, MD.

KNOW ALL MEN BY THESE PRESENTS: That the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, a corporation of the State of Maryland, by R. J. MAGRUDER, Vice-President, and JOHN C. GARDNER, Assistant Secretary, in pursuance of authority granted by Article VI, Section 2, of the By-Laws of said Company, which reads as follows:

"The President, or any one of the Executive Vice-Presidents, or any one of the additional Vice-Presidents specially authorized so to do by the Board of Directors or by the Executive Committee, shall have power, by and with the concurrence of the Secretary or any one of the Assistant Secretaries, to appoint Resident Vice-Presidents, Resident Assistant Secretaries and Attorneys-in-Fact as the business of the Company may require, or to authorize any person or persons to execute on behalf of the Company any bonds, undertakings, recognizances, stipulations, policies, contracts, agreements, deeds, and releases and assignments of judgments, decrees, mortgages and instruments in the nature of mortgages, and also all other instruments and documents which the business of the Company may require, and to affix the seal of the Company thereto."

does hereby nominate, constitute and appoint Charles T. Wilmes and Nettie John, both of Oklahoma City, Oklahoma, EACH.....

its true and lawful agent and Attorney -in-Fact, to make, execute, seal and deliver, for, and on its behalf as surety, and as its act and deed: any and all bonds and undertakings.....



CANCELLED
 DATE 12-14-65

And the execution of such bonds or undertakings in pursuance of these presents, shall be as binding upon said Company, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the Company at its office in Baltimore, Maryland, in their own proper persons. This power of attorney revokes that issued on behalf of James R. Lee, Deed Book 103, Page 10, et al, dated May 27, 1959.

The said Assistant Secretary does hereby certify that the foregoing is a true copy of Article VI, Section 2, of the By-Laws of said Company, and is now in force.

IN WITNESS WHEREOF, the said Vice-President and Assistant Secretary have hereunto subscribed their names and affixed the Corporate Seal of the said FIDELITY AND DEPOSIT COMPANY OF MARYLAND, this 25th day of July, A.D. 1962.

ATTEST: FIDELITY AND DEPOSIT COMPANY OF MARYLAND

(SIGNED) JOHN C. GARDNER By R. J. MAGRUDER
 (SEAL) Assistant Secretary Vice-President

STATE OF MARYLAND }
 CITY OF BALTIMORE } ss:

On this 25th day of July, A.D. 1962, before the subscriber, a Notary Public of the State of Maryland, in and for the City of Baltimore, duly commissioned and qualified, came the above-named Vice-President and Assistant Secretary of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and they each acknowledged the execution of the same, and being by me duly sworn, severally and each for himself deposed and saith, that they are the said officers of the Company aforesaid, and that the seal affixed to the preceding instrument is the Corporate Seal of said Company, and that the said Corporate Seal and their signatures as such officers were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporation.

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

(SIGNED) JOAN C. TAYLOR
 (SEAL) Notary Public Commission Expires May 6, 1963

CERTIFICATE

I, M. R. Bestry, Assistant Secretary of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the attached Power of Attorney dated July 25th, 1962, in behalf of Charles T. Wilmes and Nettie John of Oklahoma City, Oklahoma, is a true and correct copy and that same has been in full force and effect since the date thereof and is in full force and effect on the date of this certificate; and I do further certify that the said R. J. MAGRUDER and JOHN C. GARDNER, who executed the attached Power of Attorney as Vice-President and Assistant Secretary respectively, were on the date of the execution of the attached Power of Attorney the duly elected Vice-President and Assistant Secretary of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, and that the said R. J. MAGRUDER was one of the additional Vice-Presidents specially authorized by the Board of Directors to appoint any Attorney-in-Fact or to authorize any person or persons to execute on behalf of the Company any bonds, recognizances, stipulations, undertakings, deeds, releases of mortgages, contracts, agreements and policies, and to affix the seal of the Company thereto as provided in said Article VI, Section 2 of the By-Laws of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seal of the said Company, this 17th day of August, 1965.

321

M. R. Bestry
 Assistant Secretary

December 14, 1965

Moore Moore & Miller
3101 Liberty Bank Building
Oklahoma City, Oklahoma 73102

Attention: Mr. Rex R. Moore, Jr.

Re: Moore Moore & Miller #1 Hopi well
NW/4NW/4 6-29N-15E, Coconino County, Arizona
Permit 321

Fidelity & Deposit Company of Maryland Bond 56 59 627

Gentlemen:

In response to your request of December 9, 1965, this letter constitutes authority from this Commission to terminate captioned bond.

Your cooperation has been very much appreciated. It is hoped that you will again do some drilling, and make a discovery, in Arizona. If this office may be of assistance to you in any way, please contact us.

Very truly yours,

John Bannister
Executive Secretary
ar

cc: Fidelity & Deposit Company of Maryland
Baltimore, Maryland

Fidelity & Deposit Company of Maryland
528 Security Bldg.
Phoenix, Arizona

REX R. MOORE, JR.
PETROLEUM GEOLOGIST
3101 LIBERTY BANK BUILDING
OKLAHOMA CITY, OKLA. 73102

December 9, 1965

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

Attn: John Bannister

Dear Mr. Bannister:

We hereby request that our bond #56-59-627, dated August 17, 1965, covering land described as Section 6, Twp 29 North, Rge 15 East, Coconino County, Arizona, be released.

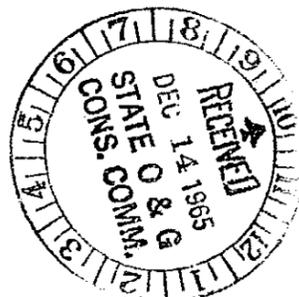
Some evidence of release should be supplied to Fidelity and Deposit Company of Maryland, Baltimore, Maryland. Thank you.

Very truly yours,


Rex R. Moore, Jr.

RRMJr/sp

cc: Fidelity & Deposit Company of Maryland



November 8, 1965

Moore Moore & Miller
3101 Liberty Bank Building
Oklahoma City, Oklahoma 73102

Attention: Rex R. Moore, Jr.

Re: Moore Moore & Miller #1 Hopi well
NW/4NW/4 6-29N-15E, Coconino County, Arizona
Permit 321

Gentlemen:

We are enclosing approved copy of application to abandon and plug captioned well, together with the additional copies of this and other forms as requested in your letter of November 1, 1965.

Inasmuch as this well has been completed and all required data has been submitted in accordance with our Rules and Regulations, your bond covering these operations may be released should you so desire. We should have a written request to this effect.

Very truly yours,

John Bannister
Executive Secretary
nr
enc

REX R. MOORE, JR.
PETROLEUM GEOLOGIST
3101 LIBERTY BANK BUILDING
OKLAHOMA CITY, OKLA. 73102

November 1, 1965

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

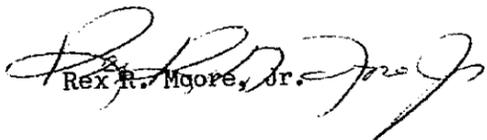
Attn: J. R. Scurlock, Geologist

Dear Mr. Scurlock:

Enclosed you will find the forms you sent in your letter of October 28, 1965, properly filled in and signed. There are five additional copies of each form and we ask that you stamp these and return to us for distribution to the supporting companies. We have no finished copies of the logs which were run, but will forward these to you when we receive them.

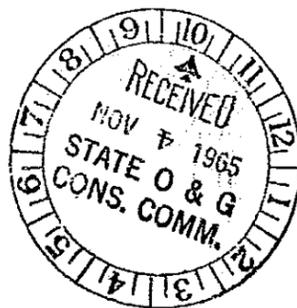
As to the samples, you can acquire them from either the U.S. G. S. or the Hopi Tribe. Thank you for your cooperation.

Very truly yours,


Rex R. Moore, Jr.

RRMJr/sp

Enc.



321

October 28, 1965

Moore Moore & Miller
3101 Liberty Bank Bldg.
Oklahoma City, Oklahoma 73102

Attention: Mr. Rex R. Moore, Jr.

Re: Moore Moore & Miller #1 Hopi well
NW/4NW/4 6-29N-153, Coconino County, Arizona
Permit 321

Gentlemen:

When I was at the well the other day I forgot to inquire about samples. I would like to know what you have done with them.

Also, please find enclosed the Application to Plug, Plugging Record, and Well Completion Report forms, which you should fill out and return to us together with two copies of all logs run.

Very truly yours,

J.R. Scurlock
Geologist
nr
enc

September 2, 1965

Moore Moore & Miller
3101 Liberty Bank Bldg.
Oklahoma City, Oklahoma 73102

Attention: Mr. Rex E. Moore, Jr.

Re: Moore Moore & Miller #1 Hopi well
NW NW 6-29N-15R, Coconino County, Arizona
Permit 321

Gentlemen:

Enclosed is a supply of Form 25, Sundry Notices and Reports on Wells. This report should be submitted monthly.

However, we should be notified when a well is spudded, when it is being logged or tested, if operations are being suspended for any reason, etc., whether or not any of these coincide with the above monthly report.

Please be assured that we are extremely interested in the success of your operations. And if this office may be of assistance to you at any time, do not hesitate to contact us.

Yours very truly,

John Bannister
Executive Secretary
MR
enc

August 23, 1965

Moore Moore & Miller
3101 Liberty Bank Bldg.
Oklahoma City, Oklahoma 73102

Dear Sirs:

Enclosed please find your filing fee receipt together with your permit to drill your #1 Hopi well in NW NW Section 6-29N-15E, Coconino County.

We have noted on our records that you have dedicated the eighty acres in the west half of the northwest quarter of section 6 to this well.

Yours truly,

J.R. Scurlock

C
O
P
Y

August 18, 1965

Moore, Moore, & Miller
3101 Liberty Bank Building
Oklahoma City, Oklahoma

Re: Your Hopi #1 well, located 660' from the North &
West lines, Section 6, Township 29N, Range 15E,
Coconino County, Arizona

Gentlemen:

We have been advised that you have made location for the captioned well. As of this date you have not filed for a permit from this Commission.

This is to advise you that this well must be drilled in accordance with the rules and regulations and, of course, must be done under a permit issued by this office.

We are enclosing a copy of our rules and regulations together with copies of our bond permit, organization reports, and application for permit.

A bond must be filed in the amount of \$2,500 for any single well, or \$10,000 as a state wide blanket bond.

Should you have any questions concerning our rules and regulations, please advise.

INSTRUCTIONS TO DELIVERING EMPLOYEE	
<input type="checkbox"/> Deliver ONLY to addressee	<input type="checkbox"/> Show address where delivered. <i>(Additional charges required for these services)</i>
RECEIPT	
Received the numbered article described on other side.	
SIGNATURE OR NAME OF ADDRESSEE <i>(must always be filled in)</i>	
<i>Moore, Moore & Miller</i>	
SIGNATURE OF ADDRESSEE'S AGENT, IF ANY	
<i>S. G. Powell</i>	
DATE DELIVERED	SHOW WHERE DELIVERED <i>(only if requested)</i>
<i>8-23-65</i>	
<small>CS-14-71248-3-7 GFD</small>	

Farmington, New Mexico

321

August 18, 1965

Moore, Moore, & Miller
3101 Liberty Bank Building
Oklahoma City, Oklahoma

Re: Your Hopi #1 well, located 660' from the North &
West lines, Section 6, Township 29N, Range 15E,
Coconino County, Arizona

Gentlemen:

We have been advised that you have made location for the captioned well. As of this date you have not filed for a permit from this Commission.

This is to advise you that this well must be drilled in accordance with the rules and regulations and, of course, must be done under a permit issued by this office.

We are enclosing a copy of our rules and regulations together with copies of our bond permit, organization reports, and application for permit.

A bond must be filed in the amount of \$2,500 for any single well, or \$10,000 as a state wide blanket bond.

Should you have any questions concerning our rules and regulations, please advise.

Yours very truly,

John Bannister
Executive Secretary

cb
Enclosure

cc: Phil McGrath, P.O. Box 959, Farmington, New Mexico
Attorney General

321

INSTRUCTIONS TO DELIVERING EMPLOYEE	
<input type="checkbox"/> Deliver ONLY to addressee	<input type="checkbox"/> Show address where delivered.
<small>(Additional charges required for these services)</small>	
RECEIPT	
Received the numbered article described on other side.	
SIGNATURE OR NAME OF ADDRESSEE (must always be filled in)	
<i>Moore, Moore & Miller</i>	
SIGNATURE OF ADDRESSEE'S AGENT, IF ANY	
<i>S. G. Howell</i>	
DATE DELIVERED	SHOW WHERE DELIVERED (only if requested)
8-23-65	

August 18, 1965

Moore, Moore, & Miller
3101 Liberty Bank Building
Oklahoma City, Oklahoma

Re: Your Hopi #1 well, located 660' from the North &
West lines, Section 6, Township 29N, Range 15E,
Coconino County, Arizona

Gentlemen:

We have been advised that you have made location for the captioned well. As of this date you have not filed for a permit from this Commission.

This is to advise you that this well must be drilled in accordance with the rules and regulations and, of course, must be done under a permit issued by this office.

We are enclosing a copy of our rules and regulations together with copies of our bond permit, organization reports, and application for permit.

A bond must be filed in the amount of \$2,500 for any single well, or \$10,000 as a state wide blanket bond.

Should you have any questions concerning our rules and regulations, please advise.

Yours very truly,

John Bannister
Executive Secretary

cb
Enclosure

cc: Phil McGrath, P.O. Box 959, Farmington, New Mexico
Attorney General

POST OFFICE DEPARTMENT
OFFICIAL BUSINESS

OKLA. AUG 23 1965

INSTRUCTIONS: Fill in items below and complete instructions on other side, if applicable. Moistened gummed ends, attach and hold firmly to back of article. Print on front of article RETURN RECEIPT REQUESTED.

REGISTERED NO.	NAME OF SENDER
CERTIFIED NO. 461054	Oil & Gas Conversation
INSURED NO.	Street and No. of P. O. BOX 1624 W. Adams
	CITY, ZONE AND STATE Phoenix, Ariz.

15-71144-5-7

321

REX R. MOORE, JR.
PETROLEUM GEOLOGIST
3101 LIBERTY BANK BUILDING
OKLAHOMA CITY, OKLA. 73102

August 17, 1965

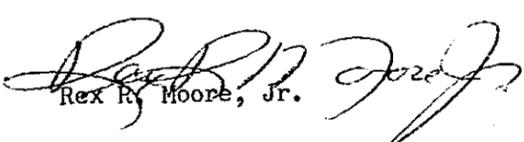
Office of Oil & Gas Conservation Commission
State of Arizona
Room 202
1624 West Adams
Phoenix, Arizona 85007

Attn: John Bannister, Exec. Sec.

Dear Mr. Bannister:

In accordance with your letter of December 16, 1964, which accompanied the forms we requested, we are hereby requesting that our Hopi #1 well which is to be drilled in the C NW NW of Section 6-29N-15E, Coconino County, Arizona, be kept confidential for the allowed amount of time. The approximate date the work will begin is August 24, 1965. Thank you.

Very truly yours,


Rex R. Moore, Jr.

RRMJr/sp



C
O
P
Y

August 9, 1965

Mr. Herb Miller
Moore, Moore & Miller
3101 Liberty Bank Bldg.
Oklahoma City, Okla.

Dear Mr. Miller:

In response to your telephone call today we are very pleased to forward copies of our General Rules and Regulations and forms.

Should you have any questions, or if we may be of help in any way, please let us know.

Yours very truly,

John Bannister
Executive Secretary
mr
enc