

CONFIDENTIAL
Release Date 11-10-67

RM

ARKLA EXPLORATION #20 NMA 364
SW SW 31-17N-23E Navajo County

sl

COUNTY Navajo AREA 4 1/2 mi NE Woodruff LEASE NO. N Mex. Ariz Land Co.

WELL NAME ARKLA EXPLORATION #20 NMA

LOCATION SW SW SEC 31 TWP 17N RANGE 23E FOOTAGE 1056' FWL 680' FSL
ELEV 5368.5 GR 5375 KB SPUD DATE 10-5-66 STATUS _____ TOTAL DEPTH 1029'
COMP. DATE 10-10-66

CONTRACTOR Sojourner Drilling Co.

CASING SIZE DEPTH CEMENT LINER SIZE & DEPTH DRILLED BY ROTARY _____
9 5/8 42' 35 SKS _____ DRILLED BY CABLE TOOL _____
8 900 300 SKS _____ PRODUCTIVE RESERVOIR _____
INITIAL PRODUCTION Strat

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Chinle	Surface			
Shinarump	140'			
Meenkopi	213'			
Coconino	382'			
Supai	907'			
Salt	976'			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
<u>Radioactivity, GR</u>			SAMPLE DESCRP. <u>4 Corners</u>
			SAMPLE NO. <u>1492</u>
			CORE ANALYSIS _____
			DSTs _____

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

WATER WELL ACCEPTED BY _____

BOND CO. U. S. Fidelity & Guaranty Co. BOND NO. 12176 13 601 605
BOND AMT. \$ 25,000 CANCELLED 9-24-69 DATE 8-24-65
FILING RECEIPT 9462 LOC. PLAT x WELL BOOK x PLAT BOOK x
API NO. 02-017-05130 DATE ISSUED 10-7-66 DEDICATION _____

PERMIT NUMBER 364

CONFIDENTIAL

(over)

Release Date 4-10-67

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 **ARKLA EXPLORATION COMPANY** Address **Box#669 Holbrook, Arizona**

Federal, State or Indian Lease Number or name of lessor if fee lease **NMA** Well Number **20** Field & Reservoir

Location **1056' FWL, 680' FSL** County **Navajo**

Sec. TWP-Range or Block & Survey **Sec. 31-T17N-R23E**

Date spudded **10-5-66** Date total depth reached **10-10-66** Date completed, ready to produce **10-10-66** Elevation (DF/RT or Gr.) **5373** feet Elevation of casing hd. flange feet

Total depth **1029** P.B.T.D. Single, dual or triple completion? If this is a dual or triple completion, furnish separate report for each completion.

Producing interval (s) for this completion **Strat test** Rotary tools used (interval) Cable tools used (interval)

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

Type of electrical or other logs run (check logs filed with the commission) **Radioactivity** Date filed

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Sur	13 3/4	9 5/8	32.50	42	35	0
Int.	8 3/4	7	20	900	300	0

TUBING RECORD

LINER RECORD

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

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & 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)

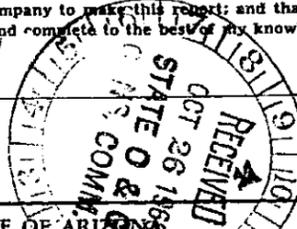
Tubing pressure	Casing pressure	Cal'ed rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio

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

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the of the (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 Oct 25-66

Signature [Handwritten Signature]



Permit No. 364

Form No. 4

File One Copy

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
Chinle	Sur.	140	Shale, varicolored
Shinarump	140	213	Sand, conglomerate.
Moenkopi	213	382	Sand, and Shale.
Cocomino	382	907	Sand.
Supai	907	976	Anhydrite, Shale.
Salt	976	1029	Salt
TD	1029	in Salt.	

* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.

PLUGGING RECORD					
Operator ARKLA EXPLORATION COMPANY			Address P.O. Box 669 - HOLBROOK, ARIZONA		
Federal, State, or Indian Lease Number, or lessor's name if fee lease. NEW MEXICO-ARIZONA LAND Co.		Well No. 20	Field & Reservoir WILDCAT		
Location of Well 1056' FWL 680' FSL		Sec-Twp-Rge or Block & Survey SEC. 31, T17N, R23E		County NAVAJO	
Application to drill this well was filed in name of ARKLA EXPLORATION COMPANY	Has this well ever produced oil or gas No	Character of well at completion (initial production): Oil (bbls/day) Gas (MCF/day)		Dry?	
Date plugged: 10-10-66	Total depth 1029	Amount well producing when plugged: Oil (bbls/day) Gas (MCF/day)		Water (bbls/day)	
Name of each formation containing oil or gas. Indicate which formation open to well-bore at time of plugging	Fluid content of each formation	Depth interval of each formation	Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount cement		
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"	42	0	42		
7"	900'	0	900		
Was well filled with mud-laden fluid, according to regulations?			Indicate deepest formation containing fresh water.		
NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE					
Name	Address		Direction from this well:		
N/A					
In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required.					
Use reverse side for additional detail.					
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the DRILLING SUPT. of the ARKLA EXPLORATION COMPANY (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	10-17-66		Signature <i>James Beldy</i>		
Permit No. 364			STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Plugging Record File One Copy		
			Form No. 10		

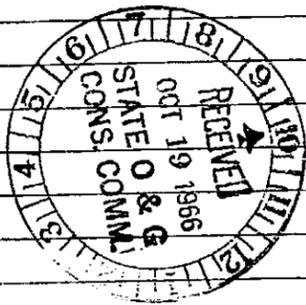
APPLICATION TO ABANDON AND PLUG

FIELD WILLOCAT
 OPERATOR ARKLA EXPLORATION COMPANY ADDRESS P.O. Box 669 - HOLBROOK, ARIZONA
 Federal, State, or Indian Lease Number
 or Lessor's Name if Fee Lease NEW MEXICO-ARIZONA LAND COMPANY WELL NO. 20
 SURVEY _____ SECTION 31, T17N, R23E COUNTY NAVAJO
 LOCATION 1056 FWL 680 FSL

TYPE OF WELL STRAT TEST TOTAL DEPTH 1029
(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" - 42' - CIRCULATED CEMENT
7" - 900' CIRCULATED CEMENT

2. FULL DETAILS OF PROPOSED PLAN OF WORK



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 10-10-66
 NAME OF PERSON DOING WORK J. S. BALDRY ADDRESS _____
 CORRESPONDENCE SHOULD BE SENT TO J. S. BALDRY
Name
DRILLING SUPT.
Title
P.O. Box 669
Address
HOLBROOK, ARIZONA
Date 10-17-66

Date Approved 10-20-66
 STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 By: John Gannister

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

Permit No. 364

APPLIED EXPLORATION COMPANY

Drilling Record

WELL NAME: NMA # 20

WELL LOCATION: SECTION 31, T17N, R23E
1056 FW 630 FSLI
NAVAJO COUNTY, ARIZONA

WELL ELEVATION: 5369-48

CONTRACTOR: SOUBURNER DRILLING CORP.

SPUD DATE: 10-5-66 11:00 A. M.

SIZE HOLE DRILLED: 10 1/2" to 42"

TYPE DRILLING FLUID: WATER GEL

SURFACE CASING:
Size 9 5/8", Wt. 32.5 #, No. Sacks Cement 35 (A)
Cementing Depth:

SIZE HOLE DRILLED: 8 1/2"

TYPE DRILLING FLUID: WATER GEL

INTERMEDIATE CASING:
Size 7", Wt. 20 #, No. Sacks Cement 300 (B)
Cementing Depth 900

SIZE HOLE DRILLED OR CORED:
6 1/2" from 900' to 1029' (C)
" from ' to '
" from ' to '
" from ' to '

DRILL STEM TESTS:

NO. BITS USED: 4

ELECTRIC LOGS RUN:
Type GAMMA RAY-NEUTRON from 1029' to 0'
from ' to '

ABANDONMENT PLUGS:
No. Sacks Cement 125 from 1029' to 550'
from ' to '

WAS CASING RECOVERED?
Depth Shot _____'
No. Feet Recovered 0'
No. Feet Not Recovered 900'

DATE DRILLING RIG RELEASED: 10-10-66 3:00 P.M.

COMPANY REPRESENTATIVE: JAMES S. BALDRY - MAX WOOLERY

SPECIAL NOTES: Unusual drilling problems encountered, etc.

(A) CIRCULATED CEMENT

(B) CEMENTED w/100 SKS - TEMPERATURE SURVERY CEMENT TOP @ 650' - PERFORATED AND RECEMENTED w/200 SKS CEMENT

(C) DRILLED FROM 900' TO 977' - CORED FROM 977' TO 1029'

WELL NAME: NMA # 20
LOCATION:
ELEVATION:

380-840 SD WH RD -SUB-RD
40-50 SD WH-TIGHT ARG SD 50-50
50-60 AD WH INC IN WH SD
60-70 SD AS ABOVE - SH RED SDY 30%
70-80 SAME INC IN SH - MUD STARTING TO BALL
80-85 FEW PCS GRY GREEN S&P DOL TRC GYP WH-CLEAR
85-90 SLT INC IN GYP BEC MORE SHY
90-95 AA
95-00 AA
900-01 7" @ 901
901-10 GYP 50% RED SH 50%
10-15 GYP 20% RED SH 80%
15-20 AA 50% AA 50%
20-25 AA 90% AA 10%
25-30 AA 90% AA 10%
30-35 AA 100%
35-40 AA 100%
40-45 AA 100% ANHY GYP TRACE
45-50 AA ANHY GYP 10% RED SH 90%
CIRC AA
50-55 AA
55-60 GYP 30% RED SH 70%
60-65 AA 50% AA 50%
65-70 AA 100% PK IN PT.
CIRC 70-75 AA 10% SALT 90%
CORE # 1 REC. 52' 975=977
977-79 SALT 90% SH 10% INTERMIXED
979-80.7 SH & SALT INTERMIXED 30% SH - 70% SALT
980.7-87 SALT PK W/SCATTERED IMP - ANHY STREAK @ 987
987-88 SLTLY MILKY W/SCATTERED ORNG BLEBS
988-88.45 CLEAR SALT W/1 OR 2 BLEBS
988.45-90 SALT WH SCATTEDED BLEBS - SLIGHTLY LEACHED-APPEAR SHALEY

304

4

990-92.6	K ₂ O ZONE - WEAK COLORED BLEBS
992.6-994.5	MILKY, SLIGHTLY LEACHED SCATTERED ORNG BLEBS
994.5-994.65	BISQUIT (POORLY DEVELOPED)
994.65-1001	SALT & SH - VERY SHY 995-98 LEACHED - FEW SCATTERED BLEBS 1000-1001 - BISQUIT 998.4
1001-1013.7	SALT WH
1013.7-1013.75	BISQUIT
1013.75-18	SH & SALT INTERMIKED 1013.75-15 VERY SHY
1018-29	SALT PK & WH

September, 17, 1969

Following is a list of upper hole samples brought in by
Arkla Exploration Sept. 16, 1969

# 337 #6 NMA	Sec.5-17N-23E	Navajo Co. Ariz.
334 #7 NMA	Sec.24-17N-22E	Navajo Co. Ariz.
359 #10 NMA	Sec.27-16N-23E	Navajo Co. Ariz.
357 #15 NMA	Sec.5-16N-23E	Navajo Co. Ariz.
342 #16 NMA	Sec.13-16N-23E	Navajo Co. Ariz.
362 #19 NMA	Sec.23-16N-22E	Navajo Co. Ariz.
364 #20 NMA	Sec.31-17N-23E	Navajo Co. Ariz.
360 #23 NMA	Sec.21-18N-23E	Navajo Co. Ariz.
340 #24 NMA	Sec.18-18N-23E	Navajo Co. Ariz.
331 #33 NMA	Sec.21-17N-22E	Navajo Co. Ariz.
343 #55 NMA	Sec.3-15N-22E	Navajo Co. Ariz.
358 #25 State	Sec.18-16N-23E	Navajo Co. Ariz.
363 #31 State	Sec.34-16N-23E	Navajo Co. Ariz.

These will have to be sent out on order list therefore will be
a few weeks before they are cut.

74
57
Jo Ratcliff
Jo Ratcliff
Four Corners Sample Cut



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 **ARKLA EXPLORATION COMPANY** DATE **OCTOBER 6, 1966**

Address **P.O. Box 669** **HOLBROOK** **ARIZONA**
City State

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number or name of lessor, if fee lease **NEW MEXICO-ARIZONA LAND CO.** Well number **NMA # 20** Elevation (ground) **536854**

Well location and acreage dedicated to the well (give footage from section lines) **1056' FW X 680' FSI (SWASWA)** Section—township—range or block & survey **31, T-17-N, R-23-E G & SRM**

Field & reservoir (if wildcat, so state) **WILDCAT - MINERAL STRATIGRAPHIC TEST** County **NAVAJO**

Distance, in miles, and direction from nearest town or post office **4 1/2 MILES NORTHEAST OF WOODRUFF**

Nearest distance from proposed location to property or lease line: **680** feet Distance from proposed location to nearest drilling completed or applied—for well on the same lease: **N/A** feet

Proposed depth: **1400'** Rotary or cable tools **ROTARY** Approx. date work will start **OCTOBER 6, 1966**

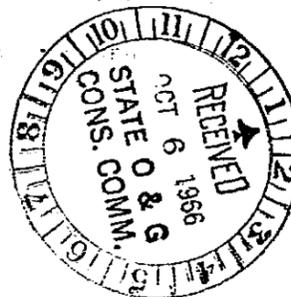
Number of acres in lease: **N/A** Number of wells on lease, including this well, completed in or drilling to this reservoir: **N/A**

If lease, purchased with one or more wells drilled, from whom purchased: **N/A** Name Address

Status and amount of bond **\$25,000.00 STATEWIDE** Organization Report **ON FILE** 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)

PLEASE KEEP ALL INFORMATION CONFIDENTIAL
VERBAL APPROVAL GIVEN 10-6-66



*Fill in Proposed Casing Program on reverse side

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the **MINERAL DIVISION LANDMAN** of the **ARKLA EXPLORATION COMPANY** (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

CONFIDENTIAL

John Bannister
Signature

OCTOBER 6, 1966
Date

Release Date _____

Permit Number: **364**
Approval Date: **10-7-66**
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

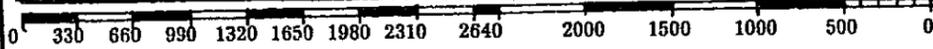
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Drill, Deepen or Plug Back and Plat
File Two Copies

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 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

<table border="1" style="width: 100%; height: 150px; border-collapse: collapse;"> <tr> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> <tr> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> <tr> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> <tr> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> </table>																	<p style="text-align: center;">CERTIFICATION</p> <p>I hereby certify that the information above is true and complete to the best of my knowledge and belief.</p> <p style="text-align: center;"><i>Ray B. Jones</i></p> <p>Name RAY B. JONES</p> <p>Position MINERAL DIVISION LANDMAN</p> <p>Company ARKLA EXPLORATION COMPANY</p> <p>Date OCTOBER 6, 1966</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"	32#	J/USED	SURFACE	50'		35
7"	20#	J/USED	950'			125



PERMIT TO DRILL

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

To: ARKLA EXPLORATION COMPANY
(OPERATOR)

to drill a well to be known as

ARKLA EXPLORATION #20 NMA
(WELL NAME)

located 1056' FWL and 680' FSL (SW/4SW/4)

Section 31 Township 17N Range 23E Navajo County, Arizona.

The _____ of said
Section, Township and Range is dedicated to this well.

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

Issued this 7th day of October, 19 66.

OIL AND GAS CONSERVATION COMMISSION

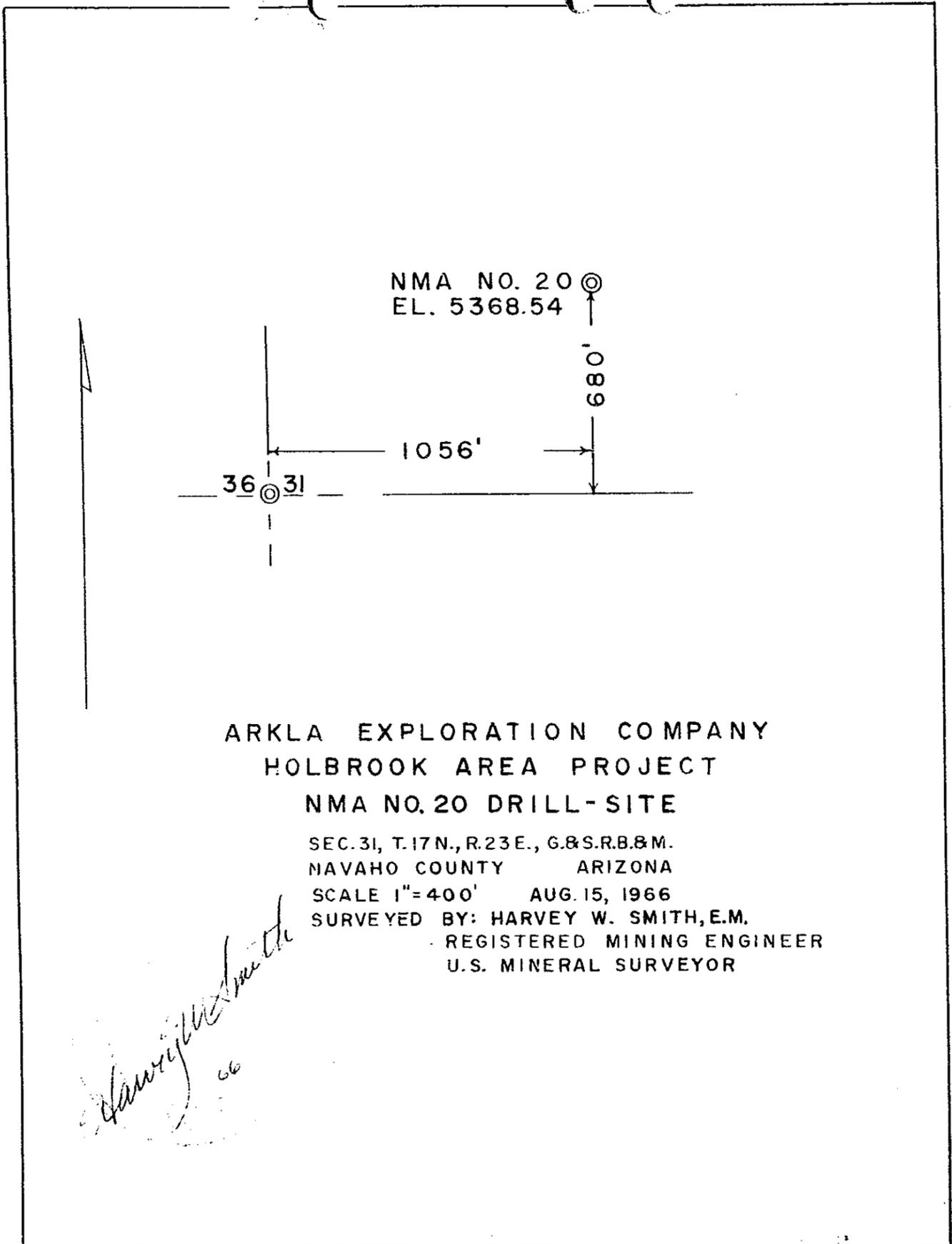
By John Kinnister
EXECUTIVE SECRETARY

PERMIT N^o 364

RECEIPT NO. 9462

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27



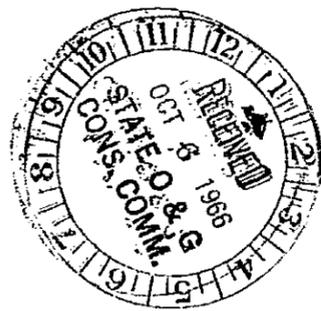
NMA NO. 20
EL. 5368.54

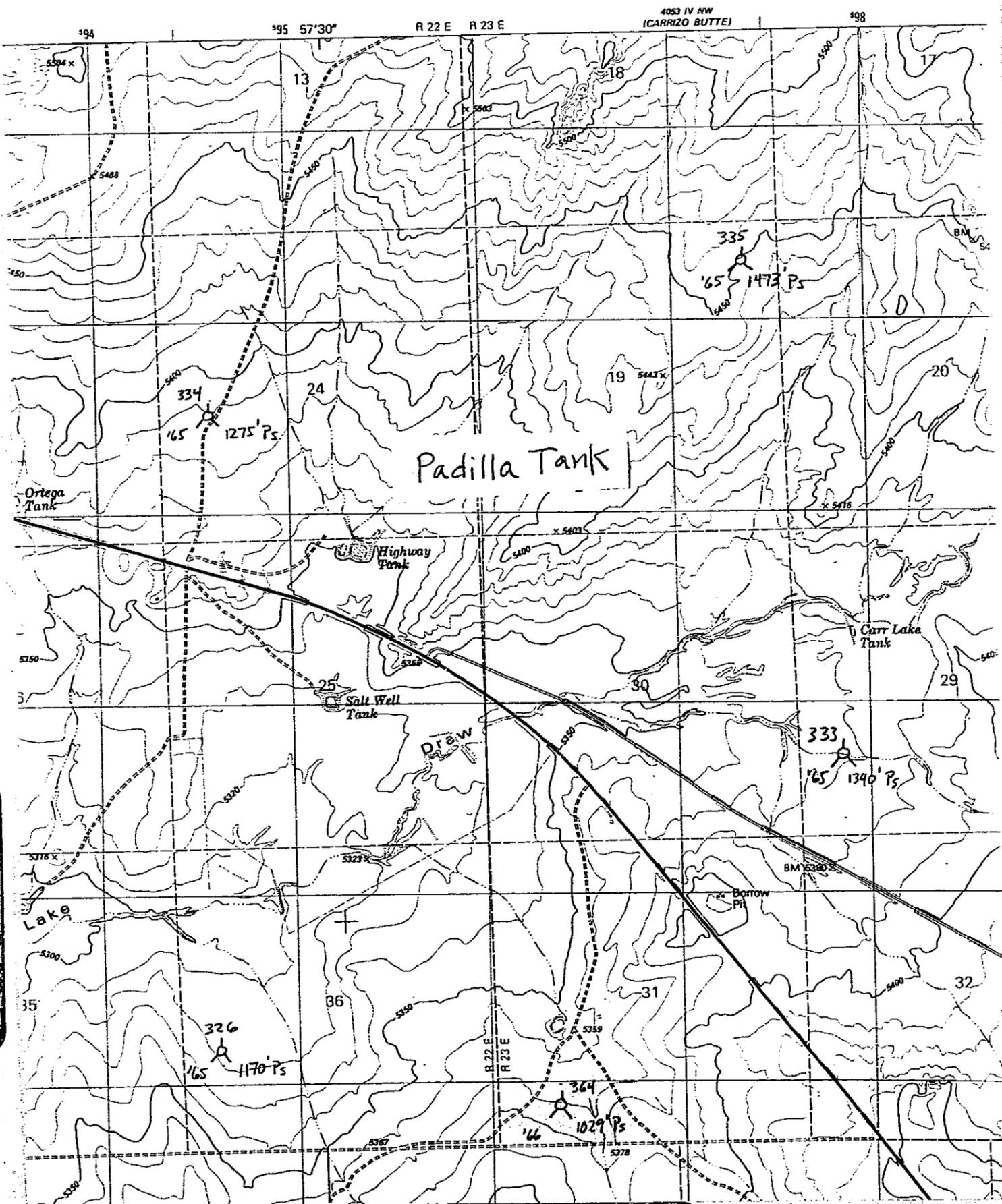
1056'
680'
36 31

ARKLA EXPLORATION COMPANY
HOLBROOK AREA PROJECT
NMA NO. 20 DRILL-SITE

SEC. 31, T. 17N., R. 23E., G. & S. R. B. & M.
NAVAHO COUNTY ARIZONA
SCALE 1" = 400' AUG. 15, 1966
SURVEYED BY: HARVEY W. SMITH, E.M.
REGISTERED MINING ENGINEER
U.S. MINERAL SURVEYOR

Harvey W. Smith
66







ARKLA EXPLORATION

C O M P A N Y

P. O. Box 60549, Oklahoma City, Oklahoma 73106

September 25, 1969

Mr. James A. Lambert
Administrative Assistant
Office of Oil & Gas Conservation Commission
State of Arizona
1624 West Adams
Phoenix, Arizona 85007

Dear Jim:

Re: Samples From Arkla Exploration Potash Tests
Navajo County, Arizona

Your letter received this morning regarding our No. 44 NMA will be complied with when I return to Holbrook. I am sorry that I overlooked this well; I should have realized that samples had not been delivered.

In gathering up these samples I had neglected to take your early letter, listing the wells, and therefore, obtained a list from Jamie by telephone. In addition to those given to me there were three wells not on the list which had been drilled after Jim Scurlock had picked up samples on earlier holes. These tests not on the list were our Nos. 19 and 20 NMA and our No. 31 State. Locations of these holes appear on the attached list and samples from these wells were also taken to Farmington.

I appreciate your release of the bond and I will see to it that the samples from the No. 44 NMA are delivered to Four Corners Sample Cut in Farmington at the first opportunity.

Sincerely,

ARKLA EXPLORATION COMPANY

Scotter
Warren E. Carr
District Geologist

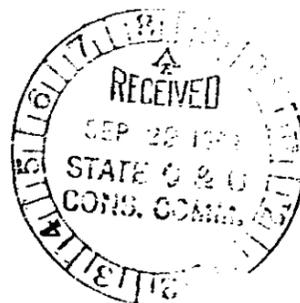
WEC/leh

Attchs.

~~#364~~
#364



ARKLA NO. 6	NMA	1008' fsl,	1604' fwI	5-17N-23E
NO. 7	NMA	2158' fsl,	868' fwI	24-17N-22E
NO. 10	NMA	3149' fwI,	426' fsl	27-16N-23E
NO. 15	NMA	3371' fsl,	640' fwI	5-16N-23E
NO. 16	NMA	202' fnI,	176' fwI	13-16N-23E
#362 NO. 19	NMA	1980' fsl,	50' fel	23-16N-22E
#364 NO. 20	NMA	680' fsl,	1056' fwI	31-17N-23E
NO. 23	NMA	660' fn & el		21-18N-23E
NO. 24	NMA	1739' fsl,	1801' fwI	18-18N-23E
NO. 33	NMA	2158' fsl,	4250' fel	21-17N-22E
NO. 55	NMA	300' fn & el		3-15N-22E
NO. 25	State	1980' fnI,	1370' fwI	18-16N-23E
#363 NO. 31	State	660' fs & wI		34-16N-23E





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

September 24, 1969

Mr. Charles C. Campbell
Executive Vice President
Rebsamen and East
Tower Building
Little Rock, Arkansas 72201

Re: U. S. Fidelity & Guaranty Company
Bond No. 12176-13-601-65

Dear Mr. Campbell:

Records of this office indicate that on 9-24-69 Arkla Exploration Company fulfilled their obligations to the Commission as to the requirements pertaining to the wells covered by the captioned bond. We authorize termination of this bond effective this date.

Yours truly,

John Bannister
Executive Secretary

jf

cc: Arkla Exploration Company

364

Operator Arkla Exploration Company

Bond Company U.S. Fidelity & Guaranty Co. Amount ~~\$10,000~~ 25,000

Bond No. 12176-13-601-65 Date Approved 8-30-65

Permits covered by this bond:

- + 323
- X 324
- + 326
- + 327
- X 328
- X 329
- X 331 X 333 X 337 X 335 X 337 X 340
342 343

- X 357 X X
- X 358
- X 359
- X 360
- + 361
- + 362
- + 363
- + 364
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____

CANCELLED
DATE 9-24-69

Bond itself
filed in permit
#364

UNITED STATES FIDELITY AND GUARANTY COMPANY
BALTIMORE, MARYLAND
(A Stock Insurance Company)



To be attached to and become a part of Bond No. 12176-13-601-65, issued by the UNITED STATES FIDELITY AND GUARANTY COMPANY, Baltimore, Maryland, on behalf of ARKLA EXPLORATION COMPANY, Shreveport, Louisiana, in favor of the STATE OF ARIZONA in the amount of TEN THOUSAND AND NO/100 DOLLARS (\$10,000.00) for the period beginning August 26, 1965.

It is hereby understood and agreed that effective the 14th day of October, 1965, the penalty of this bond is increased to TWENTY FIVE THOUSAND AND NO/100 DOLLARS (\$25,000.00).

However, it is further understood and agreed that the liability of the Surety for defaults occurring prior to October 14, 1965, shall not exceed TEN THOUSAND AND NO/100 DOLLARS (\$10,000.00), and for defaults occurring after said date shall not exceed TWENTY FIVE THOUSAND AND NO/100 DOLLARS (\$25,000.00); but in no event shall the liability of the Surety in the aggregate on account of any and all defaults exceed the larger amount.

Signed, sealed and dated this 14th day of October, 1965.

COUNTERSIGNATURE

ARKLA EXPLORATION COMPANY

D. S. Ballas
Arizona Resident Agent of Surety

BY: W. H. Thomas
W. H. Thomas, Vice-Pres. (PRINCIPAL)

UNITED STATES FIDELITY AND GUARANTY COMPANY

BY: Jack East, Jr.
Jack East, Jr., Attorney-in-Fact (SURETY)



UNITED STATES FIDELITY AND GUARANTY COMPANY
BALTIMORE, MARYLAND
(A Stock Insurance Company)



R I D E R

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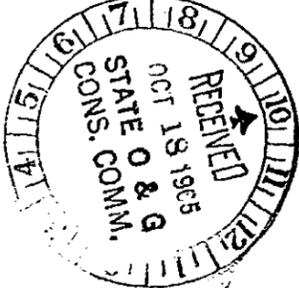
Signed, sealed and dated this 14th day of October, 1965.

COUNTERSIGNATURE

ARKLA EXPLORATION COMPANY

D. D. Bellas
Arizona Resident Agent of Surety

BY: W. H. Thomas
W. H. Thomas, Vice-Pres. (PRINCIPAL)



UNITED STATES FIDELITY AND GUARANTY COMPANY

BY: Jack East, Jr.
Jack East, Jr., Attorney-in-Fact (SURETY)

RECEIVED

1965

PHOENIX OFFICE

LIABILITY UNDER THIS BOND MAY NOT BE TERMINATED WITHOUT WRITTEN PERMISSION OF THIS COMMISSION.

KNOW ALL MEN BY THESE PRESENTS

BOND SERIAL NO. 12176-13-601-65

That we: ARKLA EXPLORATION COMPANY

of the Parish Caddo in the State of: Louisiana

as principal, UNITED STATES FIDELITY AND GUARANTY COMPANY

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:

Blanket Bond
(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 Ten Thousand and No/100 Dollars (\$10,000.00)

Witness our hands and seals, this 25th day of August, 1965

ARKLA EXPLORATION COMPANY

By: W.H. Thomas
Manager, Exploration and Production Division

Witness our hands and seals, this 26th day of August, 1965

UNITED STATES FIDELITY AND GUARANTY COMPANY

Countersigned, Edward W. Smith
Resident Arizona Agent By: Jack East, Jr.
Surrety Attorney-in-Fact

(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 Aug 30, 1965
Date
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By: John J. Lancaster

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

Permit No. 364

DATE PAID 8-27-65

ARKLA EXPLORATION COMPANY

Certified Copy of Resolution Adopted
by the Board of Directors

RESOLVED, That W. H. Thomas, Manager of Exploration and Production Division of this Corporation, be and he is hereby authorized and fully empowered to enter into, execute and deliver for and in the name of this Corporation all such written agreements, deeds and conveyances, licenses and permits, between this Corporation and any person or corporation, specifically including any agency of state or federal government, any railroad company or common carrier, pipeline company or cable company or ferry or bridge company, respecting any matter arising in the course of the operation and administration of this Corporation's said exploration and production business. Without in any manner limiting the generality of the power hereby granted, the said Thomas, as this Corporation's Manager of Exploration and Production Division, is hereby authorized and empowered for and in behalf of the Corporation to enter into the following:

(1) Deeds and conveyances of lands, both improved and unimproved, of oil, gas and mineral rights and of easements, servitudes and licenses or other rights in land and immovable property, where this Corporation is either grantor or grantee;

(2) Oil, gas and other mineral leases and subleases, where this Corporation is either lessor, lessee, sublessor or sublessee, assignments, either as grantor or grantee, and releases, of oil, gas and other mineral leases and subleases, pooling and unitization agreements declarations of pooling and unitization, operating agreements and other contracts arising in the course of exploration for and development of mineral properties;

(3) Farm out agreements, dry hole and bottom hole contribution agreements and similar contracts; oil, gas and other mineral division orders and transfer orders; contracts for exploration, and for exploration services;

(4) Applications to state and federal regulatory commissions and authorities for required permits, licenses, easements or other grants for any purpose necessary in the operation of the Corporation's business, and the making to such state and federal authorities of all reports required of the Corporation;

(5) Contracts and agreements for the drilling or reworking or operation of wells for the production of oil, gas and other minerals and for the maintenance, reworking and repair thereof, and for all services and materials required in connection therewith;

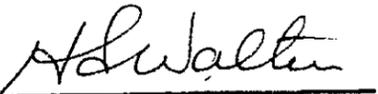
(6) Right of way grants (where this Corporation is either grantor or grantee), licenses or permits for the laying, constructing, maintaining, repairing, operating, removing and supervising of pipelines for conveying oil or gas; and

(7) Agreements for acquisition of rights of the kind enumerated in this resolution and for the compromise and settlement of disputes and litigation concerning any of the same;

with full power and authority in the said Thomas to do any and all acts proper for carrying out the intents and purposes of this resolution.

H. G. Walters, Asst. Secretary
I, ~~Frank Holloman, Secretary~~ of Arkla Exploration Company, a Delaware Corporation, hereby certify that the foregoing is a true and correct copy of a resolution adopted at a meeting of the Board of Directors of Arkla Exploration Company, duly called and regularly held on April 22, 1965 and at which meeting a quorum of the Board of Directors was present and voted for said resolution. I further certify that said resolution is on this date unrevoked and in full force and effect.

Given under my hand and the seal of said corporation this
25th day of August, 1965.


Asst. Secretary
Arkla Exploration Company

(CERTIFIED COPY)

GENERAL POWER OF ATTORNEY

No. 68610

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 Jack East, Jack East, Jr. and W. D. Morris

of the City of Little Rock, State of Arkansas its true and lawful attorneys

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 anyone of the said Jack East and the said Jack East, Jr. and the said W. D. Morris

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 March, A. D. 1955

UNITED STATES FIDELITY AND GUARANTY COMPANY.

(Signed) By John D. Williams Vice-President. (Signed) H. G. Sachse Assistant Secretary.

STATE OF MARYLAND BALTIMORE CITY,

On this 23rd day of March, A. D. 1955, before me personally came John D. Williams, Vice-President of the UNITED STATES FIDELITY AND GUARANTY COMPANY and H. G. Sachse, 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 D. Williams and H. G. Sachse 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 affixed 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. 1955

(Seal) (Signed) Nan C. Zimmerman Notary Public.

STATE OF MARYLAND BALTIMORE CITY,

I, M. Luther Pittman, Clerk of the Superior Court of Baltimore City, which Court is a Court of Record, and has a seal, do hereby certify that Nan C. Zimmerman, 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 23rd day of March, A. D. 1955

(SEAL) (Signed) M. Luther Pittman Clerk of the Superior Court of Baltimore City.

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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, **H. G. Sachse**, 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 **Jack East, Jack East, Jr. and W. D. Morris**

of **Little Rock, Arkansas**, 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 **August 26, 1965**
(Date)


Assistant Secretary.

RECEIVED
AUG 27 1965
PHOLAN PUBLIC



OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

ROOM 202

1824 WEST ADAMS

Phoenix, Arizona 85007

PHONE: 271-5161

August 11, 1969

Mr. Warren E. Carr
Chief Geologist
Arkla Exploration Company
P. O. Box 1439
Oklahoma City, Oklahoma 73101

Dear Scooter:

We have received a letter from Rebsamen and East who are the brokers on the Arkla bond. They indicate that your company wishes to have the bond released. We have gone through the files and find that things are in pretty good order; however, we require samples on each of the wells listed on the attached pages. Jim Scurlock indicated that he was under the impression that there were a number of samples in Holbrook that should be delivered to this Commission.

I talked with John today and he reviewed the Arkla situation and informed me that although we would release the bond when the various sample requirements are met, we would still look to Arkla Exploration Company at an indefinite future date for additional mineral information and substantiating logs covering those depths you tested.

I believe that the delivery of this information is a gentleman's agreement between the responsible parties of Arkla and the Executive Secretary of this Commission.

Yours truly,

James A. Lambert
Administrative Assistant
JAL:jf
Enc.

cc: Rebsamen and East, Little Rock, Arkansas

Arkla Exploration Company #55 NMA
NE/4 NE/4 Section 3-T15N-R22E
Navajo County
Permit #343

Arkla Exploration #15 NMA
SW/4 NW/4 Section 5-T16N-R23E
Navajo County
Permit #357

Arkla Exploration #25 State
SE/4 NW/4 Section 18-T16N-R23E
Navajo County
Permit #358

Arkla Exploration Company #10 NMA
SW/4 SE/4 Section 27-T16N-R23E
Navajo County
Permit #359

Arkla Exploration #23 NMA
NE/4 NE/4 Section 21-T18N-R23E
Navajo County
Permit #360

Arkla Exploration Company #33 New Mexico
NW/4 SW/4 Section 21-T17N-R22E
Navajo County
Permit #331

Arkla Exploration #7 New Mexico
NW/4 SW/4 Section 24-T17N-R22E
Navajo County
Permit #334

Arkla Exploration Company #6 NMA
SE/4 SW/4 Section 5-T17N-R23E
Navajo County
Permit #337

Arkla Exploration Company #24 NMA
NE/4 SW/4 Section 18-T18N-R23E
Navajo County
Permit #340

Arkla Exploration #16 NMA
NW/4 NW/4 Section 13-T16N-R23E
Navajo County
Permit #342



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

August 11, 1969

Mr. Charles C. Campbell
Executive Vice President
Rebsamen and East
Tower Building
Little Rock, Arkansas 72201

Re: U. S. Fidelity & Guaranty Company
Bond #12176 13 601 65

Dear Mr. Campbell:

This Commission requests a certain curative matter be furnished on various wells drilled under the U. S. F. & G. bond posted by Arkla Exploration Company. We will advise your office by mail when this Commission is willing to release the captioned bond.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jf
Enc.

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Rebsamen
and
East

INCORPORATED

INSURANCE - BONDING

August 6, 1969

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

Re: Arkla Exploration Company, Shreveport, Louisiana
U. S. Fidelity & Guaranty Co. Bond 12176 13 601 65

Gentlemen:

We have been advised by the Arkla Exploration Company that they no longer need the above captioned bond covering blanket drilling for oil or gas in the State of Arizona. In accordance with this, we kindly request your release of surety and termination of the bond to be effective the anniversary date of August 25, 1969.

Your advice will be appreciated. Thank you.

Sincerely,

Charles C. Campbell

Charles C. Campbell
Executive Vice President

CCC/cac

cc: Arkla Exploration Company



October 7, 1966

Arkla Exploration Company
P.O. Box 669
Holbrook, Arizona

Attention: Mr. Ray B. Jones

Re: Arkla Exploration #20 NMA
SW SW 31-17N-23E, Navajo County
Permit 364

Gentlemen:

Enclosed are approved copy of Application to Drill,
Permit to Drill, and Receipt 9462 for filing fee.

Very truly yours,

John Bannister
Executive Secretary
mf
enc

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