

CONFIDENTIAL

P-W

ARKLA EXPLORATION CO. #16 NMA 342  
NW NW 13-16N-23E Navajo County

COUNTY Navajo AREA 21 mi SE Holbrook LEASE NO. New Mex. AZ Land Co

WELL NAME ARKLA EXPLORATION #16 NMA (Mineral strat test)

LOCATION NW NW SEC 13 TWP 16N RANGE 23E FOOTAGE 176 FWL 202 FNL

ELEV 5414.3 GR 5421 KB SPUD DATE 2-2-66 STATUS \_\_\_\_\_ TOTAL DEPTH 1430'  
 COMP. DATE 2-11-66

CONTRACTOR James Baldry 1420' logs

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY	<input checked="" type="checkbox"/>
9 5/8	42	35 sx	NA	DRILLED BY CABLE TOOL	_____
7	1010	250 sx		PRODUCTIVE RESERVOIR	_____
				INITIAL PRODUCTION	_____

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
T/Tm	364'		x	
Coconino	517'			
T/PSU	1021'			
T/Salt	1051'			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
Radioactivity, Core Test	NA	NA	SAMPLE DESCRF. <u>4 Corners</u> SAMPLE NO. <u>P-1493 T-3004</u> CORE ANALYSIS _____ DSTs _____

REMARKS Mineral Strat Test APP. TO PLUG   
 PLUGGING REP.   
 COMP. REPORT

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

BOND CO. U. S. Fidelity & Guaranty Co. BOND NO. 12176-13-601-605  
 DATE \_\_\_\_\_ ORGANIZATION REPORT 8-24-64  
 BOND AMT. \$ 25,000 CANCELLED 9-24-69  
 FILING RECEIPT 9440 LOC. PLAT  WELL BOOK  PLAT BOOK   
 API NO. 02-017-05125 DATE ISSUED 2-4-66 DEDICATION \_\_\_\_\_

PERMIT NUMBER 342 (over) **CONFIDENTIAL**  
 Release Date 7-11-66



**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: **P.O. Box 669 - HOLBROOK, ARIZONA**  
 Federal, State or Indian Lease Number or name of lessor if fee lease: **NMA** Well Number: **16** Field & Reservoir: **STRAT TEST**  
 Location: **202' FNL - 176' FWL** County: **NAVAJO**  
 Sec. TWP-Range or Block & Survey: **SEC 13 - T16N - R23E**

Date spudded: **2-2-66** Date total depth reached: **2-11-66** Date completed, ready to produce: \_\_\_\_\_ Elevation (DF, RKB, RT or Gr.): **5421 RKB feet** Elevation of casing hd. flange: \_\_\_\_\_ feet  
 Total depth: **1430** P.B.T.D.: \_\_\_\_\_ Single, dual or triple completion?: \_\_\_\_\_ If this is a dual or triple completion, furnish separate report for each completion.

Producing interval (s) for this completion: \_\_\_\_\_ Rotary tools used (interval): \_\_\_\_\_ Cable tools used (interval): \_\_\_\_\_  
 Was this well directionally drilled? **NA** Was directional survey made? **NA** Was copy of directional survey filed? \_\_\_\_\_ Date filed: \_\_\_\_\_  
 Type of electrical or other logs run (check logs filed with the commission): **JET GRN** Date filed: \_\_\_\_\_

CASING RECORD

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

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
SURFACE	13 3/4"	9 5/8"	32.75	42	35	NONE
INTER	8 3/4"	7"	20	1010	250	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	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: \_\_\_\_\_ Gas prod. during test: \_\_\_\_\_ Water prod. during test: \_\_\_\_\_ Oil gravity: \_\_\_\_\_  
Oil prod. during test: bbls. Gas prod. during test: MCF Water prod. during test: bbls. \* API (Corr)  
 Tubing pressure: \_\_\_\_\_ Casing pressure: \_\_\_\_\_ Cal'd rate of Production per 24 hrs.: \_\_\_\_\_ Oil: \_\_\_\_\_ Gas: \_\_\_\_\_ Water: \_\_\_\_\_ Gas-oil ratio: \_\_\_\_\_  
Oil: bbls. Gas: MCF Water: bbls.

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

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the \_\_\_\_\_ 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: **2-21-66** Signature: *James Baldry*



Permit No. **342**

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*
SPUD IN:	CHINLE		
T/TRM	364	517	
COCONINO	517	1021	
T/PSV	1021	1051	
T/SALT	1051	T.D. 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.

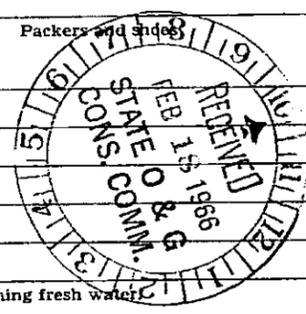
This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.

**PLUGGING RECORD**

Operator <b>ARKLA EXPLORATION COMPANY</b>		Address <b>Box 669 - HOLBROOK, ARIZONA</b>	
Federal, State, or Indian Lease Number, or lessor's name if fee lease <b>NEW MEXICO - ARIZONA LAND CO.</b>		Well No. <b>16</b>	Field & Reservoir <b>WILLCAT</b>
Location of Well <b>202<sup>nd</sup> ENL 176<sup>th</sup> FW</b>		Sec-Twp-Rge or Block & Survey <b>13 - 16N - 23E</b>	County <b>NAVAJO</b>
Application to drill this well was filed in name of <b>ARKLA EXPLORATION COMPANY</b>	Has this well ever produced oil or gas <b>No</b>	Character of well at completion (initial production): Oil (bbls/day)      Gas (MCF/day)      Dry?	
Date plugged: <b>2-11-66</b>	Total depth <b>1430'</b>	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		42		
7"	1010		1010		



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:
<b>N/A</b>		

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) 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 2-16-66      Signature James Baldry

<p><b>CONFIDENTIAL</b></p> <p>Release Date <u>7-11-66</u></p> <p>Permit No. <u>342</u></p>	<p>STATE OF ARIZONA OIL &amp; GAS CONSERVATION COMMISSION</p> <p>Plugging Record File One Copy</p>
	<p>Form No. 10</p>

APPLICATION TO ABANDON AND PLUG

FIELD WILDCAT

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. 16

SURVEY \_\_\_\_\_ SECTION 13 COUNTY NAVAJO

LOCATION 202 FNL 176 FW Sec 13, T16N, R23E

TYPE OF WELL STRAT TEST TOTAL DEPTH 1430'  
(Oil, Gas or Dry Hole)

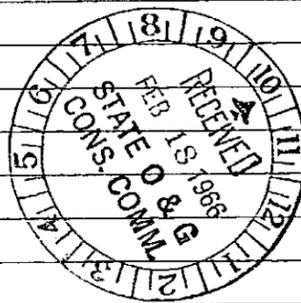
ALLOWABLE (If Assigned) \_\_\_\_\_

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'  
7" 1010'

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 2-11-66

NAME OF PERSON DOING WORK JAMES S. BALDRY ADDRESS Box 669 - HOLBROOK, ARIZONA

CORRESPONDENCE SHOULD BE SENT TO JAMES S. BALDRY

Name  
DRILLING SUPT  
Title

Box 669 - HOLBROOK, ARIZONA  
Address

2-15-66  
Date

**CONFIDENTIAL**

Date Approved 2-21-66  
STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
By: John Bannister

Permit No. 342

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Application to Abandon and Plug  
File Two Copies  
Form No. 3



NMA #16

Nov. 01/02

permit # 342

DETAILED CORE DESCRIPTION

WELL NAME: NMA # 16

LOCATION:

ELEVATION: 5414.396L

SPUD - FEBRUARY 2, 1966 9 5/8 @ 42' W/35 SX. 92'

0-10	SURFACE SD BLK MINERAL NODULES
10-20	SLT ST GRY SDY CLYEV
20-30	SAME W/INCL OF PURPLE SH
30-40	SH BLU GRY W/SCATTERED PETRIFIED WOOD.
40-50	SAME
50-60	SH - BLUE GREEN
60-70	SH - BLUE GREEN TRS SH BRN GRN SLTY MICA
70-80	AA
80-90	AH BLUE GRADING INTO DRK GRY
90-00	A" TRC SDY SH
100-10	SH LIGHT GRY BLY GREY. TRS LARGE SD GRAINS
10-20	SAME INCL IN LARGE SUB SAND CLEAR SD GRAINS SH BEC GREEN & LIGHT PURP.
20-30	SH LIGHT PURP GREEN SH VERIGATED PURP LIGHT GREEN.
30-40	SH & SLTST BRN BLU GRY & VERIGATED
40-50	SH MULTI COLORED & VERIGATED TRS SD ORNG FG TIGHT.
50-60	SH VERIGATED LIGHT GRY & REDDISH BRN.
60-70	SH VERIGATED-VERI COLORED PCS CONG SH PCS SD GREEN BLTY VTG.
70-80	HIGHLY VERIGATED LIGHT GRY GREEN MAROON.
80-90	SILTST & SH BRN
90-00	SAME
200-10	SLTST RED GREEN VERIGATED IN PT.
10-20	SAME TRC COLORED SH & CONG SD.
20-30	SLTST RED.
30-40	SAME, TRS GREEN SH.

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DO NOT REMOVE FROM FILE

40-50 AA.

50-60 SAME 20% SD GREEN VFG SLTY.

60-70 SLTST RED SH GREEN TRC SD AS ABOVE.

70-80 SLTST SDY BRN CONG - CONG SD GREEN 10%.

80-90 AA AA SD RED 10% VFG TIGHT.

90-00 CONG SD BN & GREEN MICA

300-10 AA AA W/GREEN CONG TRC GYP

10-20 AA

20-30 AA INC IN GYP

30-40 SAME BEC SHY

40-50 SH BRN 50% CONG AS ABOVE AND WH CONG SD W/BLK MINERAL NOBULES

50-60 CONG AS ABOVE

60-70 SAME

70-80 SLT ST & SH REDDISH BRN & GREEN

80-90 AA

90-00 AA

400-10 AA GYPY

10-20 AA AA

20-30 AA AA

30-40 AA AA SDY IN PT.

40-50

50-60 AA MORE GYPY

60-70 SLTST BEC MORE BRN PCS SD ORNG.

70-80 SAME ADD GYP.

80-90 SLTST & SH BRN 50% SD ORNG 50%

90-00 SAME

500-05 SD ORNG 70% SH SLTY BRN 30%

05-10 SD ORNG W/INTSTL CLY SLT ST BRN 40%

10-15 AA 70%

15-20 DOL LMY VE XCLN MICA 80% SD WH RD SUB NO CLEAR MED & 10%

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20-25 COCONINO SD  
25-30 SAME  
30-40 AA FRCS PYRITE PYRITIC SD KAOLIN  
40-50 SAME - UNCONSOLIDATED  
50-60 AA  
60-70 AA, BEC MORE COARSE GRAINED  
70-80 AA  
80-90 AA DENSE IN PYRITE  
90-00 AA  
600-710 AA  
700-10 SD WH UNCONSOL  
10-20 AA  
20-30 AA  
30-40 AA BEC CG  
40-50 AA SH RED 20%  
50-60 AA AA 30%  
60-70 AA  
70-80 BEC LT PK  
80-90 BEC LT ORNG.  
800-900 AA  
900-10 SD REDDISH ORNG RD SUB RD ARG IN PT.  
10-20 AA  
20-30 AA SH RED IN PT.  
30-40 SD ORNG MED GRAIN 50% CONSOL INTSTL CLY IN PT-ARG IN PT -SH RED 10%  
40-50 AA UNCONSOLIDATED  
50-60 SD AS ABOVE BEC MORE CONSOL AND ARG.  
60-70 AA 60% (40% SLTST SDY & SH RED)  
70-80 SAME  
80-90 SD ORNG SUB ROUND MG INTSLT CLY 70% - TRACE DOLO LMY WH VF XYLN - MUD STARTING TO BALL. SLTST REDDISH BRN EMBEDDED SD GRAIN 20% SD WH 20%.

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90-95 BEC VERY SILTY - TRC ANHY WH TRC DOLO GRY MICA.

95-00 SLTST REDDISH BRN - TRC DOLO BUFF SLTY

1000-05 AA BUFF GRY 10%

05-10 DOL GRY DNSE ANHY FRACS - ANHY & GYP.  
7" @ 1010

1010-15 SH RED SLTY TRS GREEN SH

15-20 SH RED W/GREEN FLECKS

20-25 SH RED 50% ANHY 50% GYP WH PK

25-30 SLTST RED 60% ANHY 40%

30-35 AA AA 10% ANHY 90%

35-40 ANHY 100%

40-45 ANHY WH GRY 90% SLTST RED 10%

45-50 AA AA 10% SH RED SLTY 90%

50-55 SALT

55-60 SALT 85% - SH 15% - TRS ANHY

60-65 AA 70% AA 30% PCS.

65-70 AA 60% AA 40%

1070-71 CORE 1071-1082 REC 11' CORE # 1 WS # 1

71-79 SALT 65 SH 35%

79-82 WH 90% - 10% SH IMP

CORE #2 WS #1 1082-1108 REC. 26'

82-83 SALT WH W/ANHY INCL LAST 3'

83-95.7 ANHY GRY W/SALT INCLS.

95.7-993 SH 70% SALT 30% (1097.5-1098 FRACS FILLED W/ORNG SALT. )

9.3-08 SALT PKISH WH Q/SCATT ANHY STRINGER - LAST 3.8' SLIGHTLY MILKY.  
CORE #3 WS #1 1108-1134 REC 26'

08-15 1/2 SALT WHW/PK ORNG CAST

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14½-21 SH & SALT INTERMIXED. 1118-20 FRAC FILLED W/ORNG SALT.

21-22 SALT WH

22-27 SH AND SALT INTERMIXED.

27-32½ SEMI MILKY W/SCATT ORNG BLEBS AND SYLVITE BLEBS.

32½-34 SALT SHY SCATTERED XCL THROUGHOUT.

1134-60 CORE # 4 WS # 1

34-8.8 SALT WH LEACHED (SCATT ORNG BLEBS & SYLVITE BLEBS.

8.8-.95 WHITE CLEAR BISCUIT.

8.95-39 HARD & GREY CLY BISCUIT.

39-43.7 SH W/CARMOLITE? INCL OBLIQUE BISCUIT @ 1141.7

43.7-46 SALT WH W/10% RED SH IMPS.

46-52 SALT PKISH WH W/SCATT SH INCL POSSIBLE BLEBS OF SCATT CARMOLITE.

52-52.25 SH RED AND ANHY BISCUIT.

52.25-5.5 ORNG AND PK SALT

55.5-60.3 SALT AND SH INTERMIXED.

WS #2 1121-1147

21-24 SALT 80% SH 20%

24-26 PINK SALT ORNGE CAST.

26-28 SALT 90% SH 10% IMPS.

28-30 SALT MILKY W/SCATT ORNG BLEBS AND THIN ANHY STRINGER.

30-33 SALT WELL LEACHED SCATT SYLVITE AND CARMOLITE. 1132½-33- SH RED.

33-37 SALT WH SEMI MILKY LEACHED SCATT BLEBS OF SYLVITE & CARMOLITE. 36-37 CARMOLITE INCL.

37-8.5 SALT LIGHT ORNG SEMI MILKY LEACHED FEW SCATT SYLVITE VUGS

38.5-39 BISCUIT

39-42.5 SH AND SALT INTERMIXED RED CARMOLITE INCL.

42.5-44 SH 70% W/SALT INCL 30%

44-46.5 SALT 90% SH RED 20%.

WS #2 1147-1173

47-54.5 PK ORNG SALT SCATT ORNG BLEBS TO 54.

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1155.45 BISCUIT

5.5-60 SH 60% SALT 40%

60-69 SALT PK CAST

69-72 ORNG SALT

72-73 SH

CORE 1124-50 REC. 26'

24-26 WH SALT PKISH ORNG CAST.

26-27 PH RED W/SALT INCL IN SALT FILLED FRACS.

27-30.5 SALT WH W/ORNG CAST SCATT ORNG BLEBS AND SYLVITE BLEBS.

30.5-36 SALT LEACHED CARMOLITE AND SYLVITE BLEBS SCATT.

36-39 SEMI LEACHED SALT ORNG CAST SEMI MILKY.

BISCUIT @ 1138.55

39-4.5 SHALE RED W/SALT INCL. SCATT CARMOLITE BLEBS.

44.5-50 SALT PKISH ORNG CAST.

50-60 ANHY 80% SLT ST 20%

60-70 SALT 50% AA 50% TRC ANHY.

70-80 AA 60% AA 30% 10%

80-90 AA 50% AA 20% 30%

90-00 AA 60% AA 20% 30%

1200-10 SALT 90% ANHY 10% SLTST 20%

10-20 AA 60% AA 10% AA 30%

20-30 AA 30% TRS AA 70%

30-40 AA 20% AA AA 80%

40-50 AA 30% AA AA AA 70%

50-60 AA 80% AA AA 20%

60-70 AA 90% AA 10%

70-80 AA 70% 10% AA 20%

80-90 AA 60% TRS 40%

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90-00 SALT 80% ANHY TRS SLTST 20%

1300-10 SALT 50% ANHY 50%

10-20 SALT 70% ANHY 15% SLTST RED 15%

20-30 AA 80% AA 10% AA 10%

30-40 AA 50% SLTST GREEN - RED 50%

40-50 AA 70% AA 30% TRS ANHY.

50-60 SALT 90% GYP 10%

60-70 SALT 60% AA 30% SH RED 10%

70-80 SLT ST 80% SALT 10% GYP 10%

80-90 SLTST 100%

90-00 GYP ANHY DCLO?

1400-10 DOLO BRN DNSE VF XYLN W/BLK CARBONACEOUS MATERIAL.

10-20 SD GREEN

20-30 SLT ST RED 80% SALT 10% ANHY 10%

CIRC. 30 SLT ST RED 60% SALT 20% ANHY 20%.

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11/1/66

ARIZONA EXPLORATION COMPANY

Drilling Record

WELL NAME: NYA Core Test # 16

WELL LOCATION: 2021 E. 1751 E. Sec. 25 - T15N. R27E  
NAVAGO COUNTY, ARIZONA

WELL ELEVATION: 5423 KSI

CONTRACTOR: SUBURBAN DRILLING COMPANY

SPUD DATE: 2-2-66 5:00 P.M.

SIZE HOLE DRILLED: 13 3/4" to 42'

TYPE DRILLING FLUID: GEL

SURFACE CASING:

Size 9 5/8", Wt. 32.75 #, No. Sacks Cement 35 (A)

Cementing Depth: 42'

SIZE HOLE DRILLED: 8 3/4"

TYPE DRILLING FLUID: Flo Sol (P)

INTERMEDIATE CASING:

Size 7", Wt. 20 #, No. Sacks Cement 250 (C)

Cementing Depth 1010'

SIZE HOLE DRILLED OR CORED:

6"	from	1010'	to	1430'
"	from		to	
"	from		to	
"	from		to	

DRILL STEM TESTS:

None

NO. BITS USED: 3

ELECTRIC LOGS RAN:

Type JET GR. from 1430' to 0'

ABANDONMENT PLUGS:

No. Sacks Cement 125 from 1430' to 850'

WAS CASING RECOVERED?

Depth Shot \_\_\_\_\_  
No. Feet Recovered 0  
No. Feet Not Recovered 1010'

DATE DRILLING RIG RELEASED: 2-11-66 3:00 P.M.

COMPANY REPRESENTATIVE: JAMES S. BALDREY - Max Woolry

SPECIAL NOTES: Unusual drilling problems encountered, etc.

- (A) CIRCULATED CEMENT
- (B) LOST DRILLING MUD @ 625' - 810'
- (C) CEMENTED W/125 SKS CEMENT - TEMPERATURE SURVEY CEMENT  
TOP @ 370' - AFTER RIG WAS RELEASED PERFORATED @ 250' & CIRCULATED CEMENT TO SURFACE W/125 SKS CEMENT.
- (D) SET # 1 WHIPSTOCK @ 1040' - T.D. @ 1160' - LOST DIESEL @ 1125'  
STRAIGHTENED HOLE @ 1040', SET # 2 WHIPSTOCK @ 1060' T.D. @ 1175'  
STRAIGHTENED HOLE @ 1060' - T.D. ON VERTICAL HOLE @ 1430'

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September, 17, 1969

Following is a list of upper hole samples brought in by  
Arkla Exploraton 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.

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*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 **FEBRUARY 3, 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 <b>NEW MEXICO-ARIZONA LAND COMPANY</b>	Well number <b>NMA# 16</b>	Elevation (ground) <b>5414.39</b>
Well location and acreage dedicated to the well (give footage from section lines) <b>176 FM x 202 FM (NW/4 NW/4)</b>		Section--township--range or block & survey <b>13 16N 23E G&amp;SRM</b>
Field & reservoir (if wildcat, so state) <b>WILDCAT - MINERAL STRATIGRAPHIC TEST</b>	County <b>NAVAJO</b>	
Distance, in miles, and direction from nearest town or post office <b>21 MILES SOUTHEAST OF HOLBROOK</b>		
Nearest distance from proposed location to property or lease line: <b>176</b> feet	Distance from proposed location to nearest drilling, completed or applied--for well on the same lease: <b>N/A</b> feet	
Proposed depth: <b>1750 FEET</b>	Rotary or cable tools <b>ROTARY</b>	Approx. date work will start <b>FEBRUARY 1, 1966</b>
Number of acres in lease: <b>N/A</b>	Number of wells on lease, including this well, completed in or drilling to this reservoir: <b>N/A</b>	
If lease, purchased with one or more wells drilled, from whom purchased: Name Address		

Status and amount of bond **\$25,000.00 STATEWIDE** Organization Report On file Or attached **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

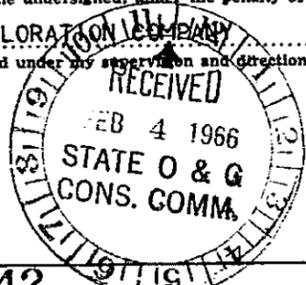
*Approved Verbally  
1-31-66*

**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 **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.



*Ray B. Jones*  
Signature

**FEBRUARY 3, 1966**  
Date

Permit Number: **342**  
Approval Date: **2-4-66**  
Approved By: *John Vannister*  
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

**CERTIFICATION**

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

*Ray B. Jones*  
**RAY B. JONES**

Name

**LANDMAN**

Position

**ARKLA EXPLORATION COMPANY**

Company

**FEBRUARY 3, 1966**

Date

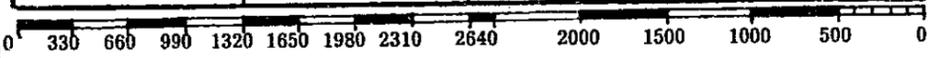
  

I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed \_\_\_\_\_

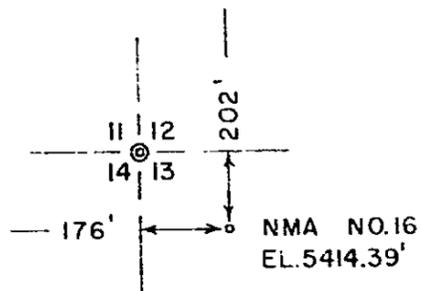
Registered Professional Engineer and/or Land Surveyor

Certificate No. \_\_\_\_\_



**PROPOSED CASING PROGRAM**

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
9 5/8"	32.75	J 55/USED X			42'	35
7"	20	J 55/USED			1150'	150 120



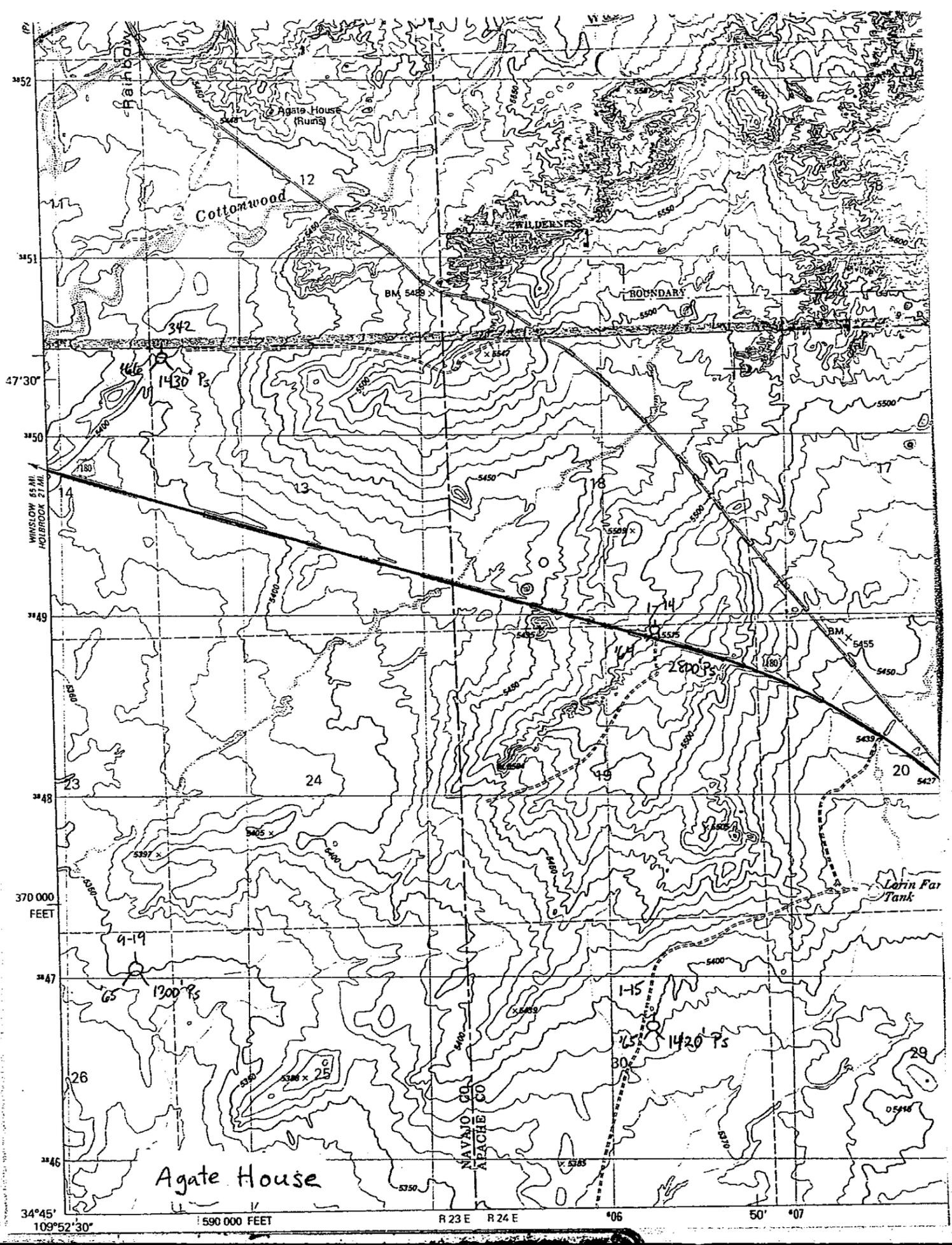
ARKLA EXPLORATION COMPANY  
 HOLBROOK AREA PROJECT  
 NMA NO. 16 DRILL - SITE

SEC.13 T16N R23E., G.&S.R.B.&M.  
 NAVAJO, COUNTY ARIZONA

SCALE 1" = 400' FEB. 1, 1966

SURVEYED BY: HARVEY W. SMITH, E.M.  
 REGISTERED MINING ENGINEER  
 U.S. MINERAL SURVEYOR







# PERMIT TO DRILL

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

To: ARKLA EXPLORATION CO. #16 NMA  
(OPERATOR)

to drill a well to be known as

ARKLA EXPLORATION COMPANY #16 NMA  
(WELL NAME)

located 176' FWL & 202' FNL (NW/4NW/4)

Section 13 Township 16N 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 4th day of February, 19 66.

OIL AND GAS CONSERVATION COMMISSION

By John Linnister  
EXECUTIVE SECRETARY

PERMIT No 342

RECEIPT NO. 9440

State of Arizona  
Oil & Gas Conservation Commission  
Permit to Drill

FORM NO. 27

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

This does not release Arkla from the obligation to furnish the additional mineral information and substantiating logs.

Operator Arkla Exploration Company

Bond Company U.S. Fidelity & Guaranty Co. Amount \$10,000<sup>25,000</sup>

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

Permits covered by this bond:

323

324

326

327

328

329

331

333, 334, 335, 337, 340,  
342, 343

357

358

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360

361

362

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364

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\_\_\_\_\_  
\_\_\_\_\_

**CANCELLED**  
DATE 9-24-69

Bond itself  
filed in permit  
#364

342



OFFICE OF  
**Oil and Gas Conservation Commission**  
STATE OF ARIZONA  
ROOM 202  
1024 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

342

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

342

Operator Arkla Exploration Company

Bond Company U.S. Fidelity & Guaranty Co. Amount \$10,000<sup>25,000</sup>

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

Permits covered by this bond:

323

324

326

327

328

329

331

333, 334, 335, 337, 340,  
342, 343

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360

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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.

342

Rebsamen  
and  
East

**INSURANCE BONDING**

CORPORATED

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.

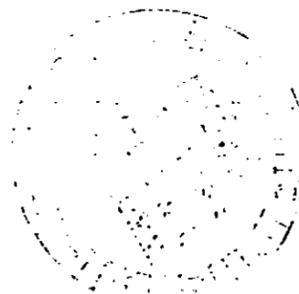
Sincerely,

*Charles C. Campbell*

Charles C. Campbell  
Executive Vice President

CCC/cac

cc: Arkla Exploration Company



February 7, 1966

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

Re: ArkLa Exploration Co. #16 NMA well  
NW NW 13-16N-23E, Navajo County  
Permit 342 ✓

Gentlemen:

Enclosed are: approved copy of Application for Permit to Drill,  
Permit to Drill, and Receipt 9440 for the filing fee.

Very truly yours,

John Bannister  
Executive Secretary  
mr  
enc



**ARKLA EXPLORATION**  
C O M P A N Y

P.O. Box 669 - HOLBROOK, ARIZONA  
FEBRUARY 3, 1966

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION  
ROOM 202  
1624 WEST ADAMS  
PHOENIX, ARIZONA

ATTN: MR. JOHN BANNISTER

RE: APPLICATION TO DRILL

GENTLEMEN:

ENCLOSED HEREWITH IN DUPLICATE IS OUR APPLICATION TO DRILL THE  
NMA # 16 IN SECTION 13, T-16-N, R-23E, NAVAJO COUNTY, ARIZONA.

OUR CHECK IN THE AMOUNT OF \$25.00 IS ENCLOSED TO COVER THE  
REQUIRED FILING FEE.

VERY TRULY YOURS,  
ARKLA EXPLORATION COMPANY

*Ray B. Jones*  
RAY B. JONES  
LANDMAN

ENCL. 1  
RBJ/ SD

