

P-W

F. Julius Fohs 1-21 Santa Fe
SE/4-NE/4 Sec21-Twp19N-R23E161
Navajo, County

County Navajo

Area _____

Lease No. Santa Fe Fee

Well Name F. Julius Fohs ¹⁻²¹ Santa Fe

Location SE NE Sec 21 Twp 19N Range 23E Footage 2515 FNL 277 FEL
LS _____ DF _____ Spud _____ Complete _____ Total _____
Elev 5359 Gr 5361 KB Date 12-8-61 Abandon 12-10-61 Depth 710

Contractor: W. T. Myers Drilling Company-Albuquerque ^{Approx.} Cost \$ _____

Drilled by Rotary _____
Cable Tool _____

Casing Size Depth Cement
5 1/2 100 25sx

Production Horizon _____

Initial Production D & A

REMARKS: Core #1 (Moenkopi) 670-677 Rec. 7': Seven feet shale
Red. brn HD

Core #2 (Moenkopi)(Coconino) 677-687 Rec. 10':

Sh brn hd; 8 1/2' Ss buff M-FG, Salty taste.

Elec. _____ Sample Log _____
Logs Induction; Elec log _____ Sample Descript _____
Applic _____ Plugging _____ Completion _____
to Plub X Record X Report X _____ Sample Set _____
Cores _____

Water well - accepted by _____

Bond Co. _____
& No. U.S. Fidelity & Guaranty Company

Bond Am't \$10,000 Cancelled _____ Date _____
Organization Report X

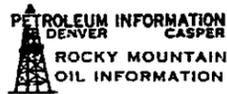
Filing Receipt 9278 dated 10-16-61 Well Book X Plat Book X

Loc. Plat X Dedication SENE 21-19N-23E

API # 02-017-05049

PERMIT NO. 161 Date Issued 10-18-61

ARIZONA
NAVAJO CO. 161
CARRIZO WASH AREA (W)



Twp 19n-23e
Section 21
se ne
2515 s/n 277 w/e

OPR: F. Julius Fohs	WELL #:	1-21. Santa Fe
ELEV: 5361 DF.	DSTS. & CORES:	SPUD: 11-30-61 COMPL: 12-10-61
TOPS: Log-Samples: Chinle - surface Coconino 688	Crd 670-677, rec 7 sh. Crd 677-687, rec 1 1/2 sh; 8 1/2 sd. No tests.	TD: 710 PB: CSG: 5 1/2" @ 100 w/25
		PERF:
		PROD. ZONE:
		INIT. PROD: D & A

Contr: Meyers.

ARIZ 8-262160

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: **F. Julius Fohs** Address: **317 San Jacinto Bldg., Houston, Texas**

Federal, State or Indian Lease Number or name of lessor if fee lease: **Santa Fe**
 Well Number: **1-21**
 Field & Reservoir: **Wildcat**

Location: **2515' SNL & 277 WEL of Section**
 County: **Navajo**

Sec. TWP-Range or Block & Survey: **Section 21, T-19-N R-23-E Gila & Salt River Survey**

Date spudded: **12-6-61**
 Date total depth reached: **12-9-61**
 Date completed: **12-10-61**
 Elevation of casing hd. flange: **5359** feet

Total depth: **710'**
 P.B.T.D.:
 Single, dual or triple completion?: **Dry & Abandoned**
 If this is a dual or triple completion, furnish separate report for each completion.

Producing interval (s) for this completion: **None**
 Rotary tools used (interval): **0 to 710**
 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): **Induction-Electric Log**
 Date filed: **5-31-62**

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
	4 3/4"	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 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

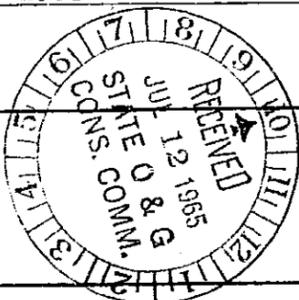
Disposition of gas (state whether vented, used for fuel or sold):

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Walter Larke, Geologist of the F. Julius Fohs, Operator 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: July 8, 1965

Signature: Walter Larke

Permit No. **161**



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*
	0	175	Shale, multicolored
	175	270	shale, dark gray
	270	300	shale sandy, dark gray
Chinle cong.	300	310	shale, dark gray with buff colored sand
" "	310	320	sand, red, with some red shale
" "	320	330	sand, red & gray
	330	340	shale, red & gray
	340	470	shale, red
	470	480	sand, red
	480	490	sand, gray
	490	660	shale, red & gray with thin hd. sand strks.
Moenkopi	660	670	sand, hard
"	670	677	Core #1: Rec. 7'0" shale, reddish-brown, hd., compact
"	677	687	sand & shale, red, hard
Coconino	687	700	Core #2: Rec. 1'6" shale, red-brown, hd., comp. 11'6" sandstone, hd., no odor, no shows, appears wet.
"	700	710	sandstone
		T. D.	

No drill stem tests

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

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

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

STATE LAND DEPARTMENT
STATE OF ARIZONA Form O&G 56
Form Prescribed Under Oil and Gas Conservation Act of 1951
ABANDONMENT AND PLUGGING RECORD

(Within thirty days after the plugging of any well has been accomplished, the owner or operator thereof shall file this form with the Commissioner, setting forth in detail the method used in plugging the well.)

PLUGGING METHODS AND PROCEDURE - - The methods and procedure for plugging a well shall be as follows: (a) The bottom of the hole shall be filled to, or a bridge shall be placed at, the top of each producing formation open to the well bore, and in either event a cement plug not less than fifty (50) feet in length shall be placed immediately above each producing formation open to the well bore whenever possible.

- (b) A cement plug not less than fifty (50) feet in length shall be placed at approximately fifty (50) feet below all fresh-water-bearing strata.
- (c) A plug shall be placed at or near the surface of the ground in each hole.
- (d) The interval between plugs shall be filled with heavy-mud-laden fluid.
- (e) An uncased hole shall be plugged with heavy mud up to the base of the surface string, at which point a plug of not less than fifty (50) feet of cement shall be placed.

Operator F. Julius Fohs Field Wildcat
Pool _____
County Navajo
Address all correspondence concerning this form to: F. Julius Fohs
Street: 1077 San Jacinto Bldg. City: Houston 2 State: Texas
Lease Name Santa Fe Well No. 1-21 Sec. 21 Twp. 19-N Rge. 23-E
Date well was plugged December 10, 19 61
Was the well plugged according to regulations of the Commissioner? Yes
Set out method used in plugging well and record of casing pulled: No casing

Cemented well from 710' to surface with 78 sacks of cement

(AFFIDAVIT)

STATE OF ~~ARIZONA~~ TEXAS
COUNTY OF HARRIS

F. Julius Fohs
(Operator)

Before me, the undersigned authority, on this day personally appeared Walter Larke
Geologist, known to me to be the person whose name is subscribed to the
above instrument, who being by me duly sworn on oath states that he is authorized to make
this report and has knowledge of the facts stated herein and that said report is true and cor-
rect.

Subscribed and sworn to before me this the 18th day of December 19 61

Helen Cadoret
Notary Public

My commission expires:

HELEN CADORET
NOTARY PUBLIC IN AND FOR HARRIS COUNTY, TEXAS
MY COMMISSION EXPIRES JUNE 1, 1963

161

STATE OF ARIZONA
OIL AND GAS CONSERVATION COMMISSION
FORM O & G 55

Form Prescribed Under Oil and Gas Conservation Act 1951
APPLICATION TO ABANDON, PLUG, DEEPEN, SIDETRACK OR PERFORATE
(After Well Has Once Been Completed)

INSTRUCTIONS: - - File in duplicate with Commissioner. One copy will be returned with approval or denial.

FIELD: Wildcat
OPERATOR: F. Julius Fohs ADDRESS 1077 San Jacinto Bldg., Houston 2, Texas
LEASE: Santa Fe WELL NO. 1-21 COUNTY Navajo
SURVEY: Gila & Salt River SECTION 21 DRILLING PERMIT NO: 161
LOCATION: 2515' South & 277 West of NE/c of Section in T-19-N, R-23-E

TYPE OF WELL: Dry Hole TOTAL DEPTH 710'
(Oil, Gas or Dry Hole)

ALLOWABLE (If Assigned)
LAST PRODUCTION TEST: OIL _____ (Bbls.) Water _____ Bbls.
GAS _____ (M. C. F.) DATE OF TEST _____

PRODUCING HORIZON _____ PRODUCING FROM: _____ TO _____

1. COMPLETE CASING RECORD: None

2. FULL DETAILS OF PROPOSED PLAN OF WORK: To plug hole from total depth to surface with cement

If the well is to be deepened to another zone other than that covered by permit, this form shall be accompanied by a certified lease plat as is prescribed on Form No. O & G 51.

If the well is to be abandoned, does proposed work conform with requirements of Rule 26? _____. If not, outline procedure proposed above.

DATE COMMENCING OPERATIONS: December 10, 1961
NAME OF PARTY DOING WORK: W.T. Myers Drlg. Co. ADDRESS Albuquerque, N.M.
CORRESPONDENCE SHOULD BE SENT TO: F. Julius Fohs - above address

NAME: Walter Larke Walter Larke

TITLE: Geologist

APPROVED: 19th DAY OF Dec 1961

DENIED: _____ DAY OF _____ 19____

OIL AND GAS COMMISSION

BY: Brooks Pierce
Petroleum Geologist

(4) 21-19N-23E
277' FNL-2515" FNL
F. Julius Fohs
Santa Fe #1-21

1-62
FV

WILDCAT, Carrizo Area; proposed 1400' Coconino test;
C/W.T. Myers Drig Co, Albuquerque; elev 5359' GL; set
1/2" csg 100'; TD 710'; D,P&A 12-10-61. FINAL REPORT

OK # 161

(4) 21-19N-23E
277' FRL-2515' FNL
F. Julius Fohs
Santa Fe #1-21

1-162
P/M

WILDCAT, Carrizo Area; proposed 1400' Coconino test;
C/W.T. Myers Drlg Co, Albuquerque; elev 5359' GL; set
1/2" csg 100'; TD 710'; D,P&A 12-10-61. FINAL REPORT.

Og # 161

OIL AND GAS CONSERVATION COMMISSION
STATE OF ARIZONA

Form OG 51

Form Prescribed Under Oil and Gas Conservation Act of 1951

NOTICE OF INTENTION TO DRILL NEW WELL

ORIGINAL

This notice and surety bond must be filed and permit must be granted
before drilling begins

Oil and Gas Conservation Commission October 12, 1961 Arizona 19

In compliance with Statewide Rule 3, notice is hereby given that it is our intention
to commence the work of drilling well No. Santa Fe #2 Sec. 21,
Twp. 19 North, Rge. 23 East GSR B. & M., Field
Navajo County.

Legal description of lease SE4 NE4 of Section 21, T-19-N, R-23-E, GSRB&M
(attach map or plat to scale)

Location of Well: 660' from the East Line; 1980' from the North Line;
(Give exact footage from section corners or other

legal subdivisions or streets)

Proposed drilling depth 1400' feet. Acres in drilling unit 40.00

Has surety bond been filed? Yes. Is location a regular or exception to spacing
rule? Regular.

Elevation of ground above sea level feet.

All depth measurements taken from top of
(Derrick, floor, Rotary Table or
 which is feet above the ground.
(Kelly Bushing)

PROPOSED CASING PROGRAM

Size of Casing Inches A. P. I.	Weight	Grade & Type	Top	Bottom	Cementing Depth
<u>5-1/2"</u>	<u>15#</u>	<u>J-55</u>	<u>0</u>	<u>120'</u>	<u>Circulated</u>
<u>2-7/8"</u>	<u>6.5#</u>	<u>J-55</u>	<u>0</u>	<u>ID</u>	<u>ID</u>

AFFIDAVIT:

I hereby certify under the penalty of perjury, that the information contained and state-
ments herein made are to the best of my knowledge and belief, true, correct and complete.

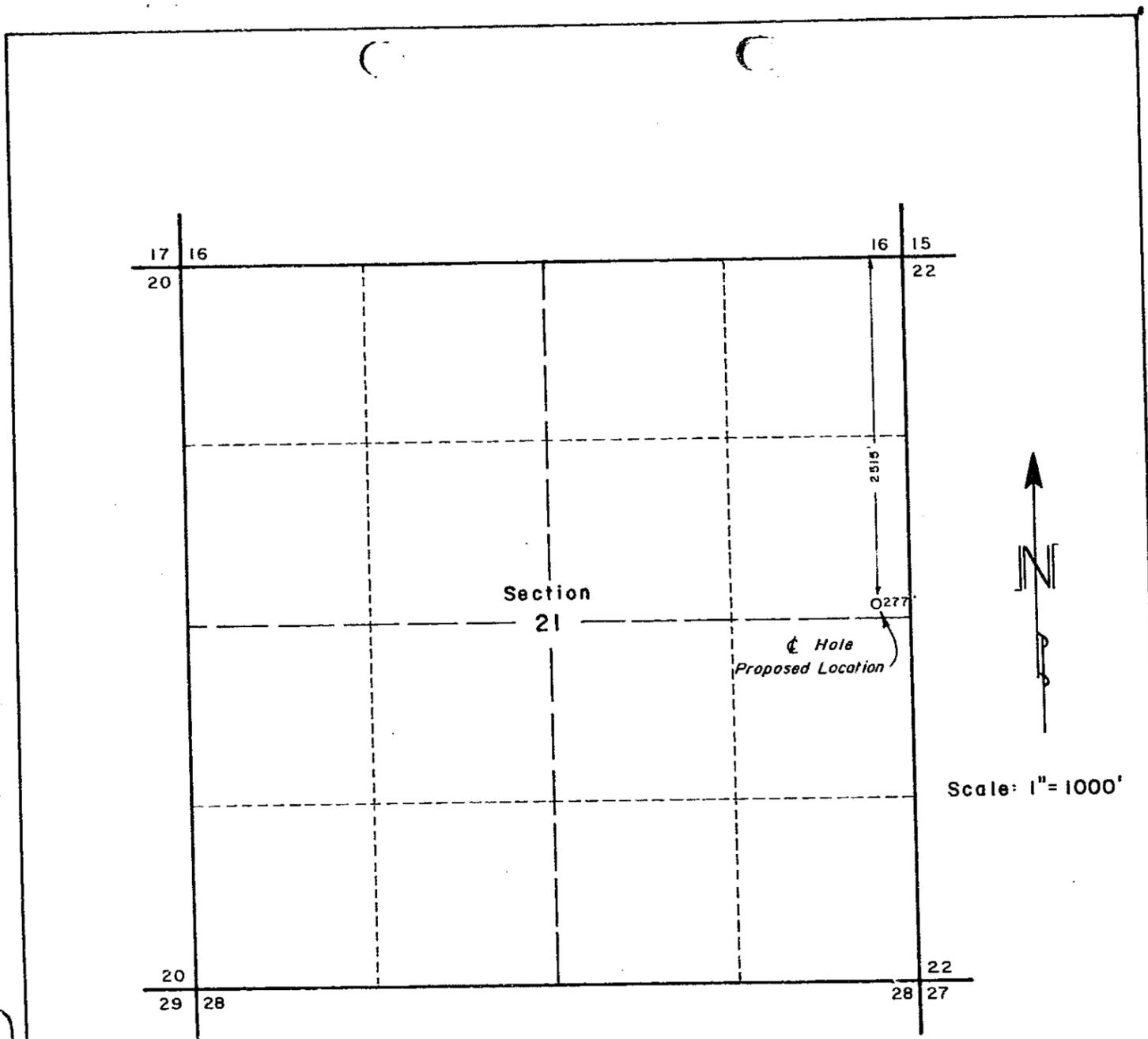
F. Julius Fohs

(Applicant)

Application approved this 18 day of February 1961.
By Frank Ewing Frank Ewing, Agent

Permit No. 161
3-62 1/10/58

K. Keith Wadsworth
Oil and Gas Conservation Commission



WELL LOCATION: F. J. Fohs - Santa Fe #1-21

Located 2515 feet South of the North line and 277 feet West of the East line of Section 21,
 Township 19 North, Range 23 East, Gila & Salt River Meridian.
 Navajo Co., Arizona
 Existing ground elevation determined at 5359 feet based on U.S.G.S. datum.

I hereby certify the above plat represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief.

Elmer M. Clark

ELMER M. CLARK
 Registered Land Surveyor
 State of Ariz. # 4973

F. J. FOHS - HOUSTON, TEXAS	
WELL LOCATION PLAT Sec. 21, T. 19 N., R. 23 E. Navajo Co., Arizona	
E.M. CLARK & ASSOC. Durango, Colorado	DATE: Oct. 23, 1961 FILE NO: 61087

October 11, 1963

Estech of U. Julius Fohn
317 The Jacinto Building
Houston 2, Texas

Attention: Mr. Walter Larko, Geologist

Re: U.S. Fidelity & Guaranty Co. Bond 68241 13 1201 61

Gentlemen:

All wells covered by captioned bond have been plugged and abandoned and all data has been filed with this Commission as required by our Rules and Regulations.

Consequently this letter will serve as authority from this Commission to terminate captioned bond should you so desire. However, we request that we be notified of any action taken by you, so that we may note our records.

Yours very truly,

John Hamriner
Executive Secretary
RH

June 22, 1965

Estate of F. Julius Fohs
1077 San Jacinto Building
Houston 7, Texas

Attention: Mr. Walter Larke

Gentlemen:

In reply to your letter of June 18, 1965, this office feels that it would be easier to deal separately with each well drilled by Mr. Fohs within this State. Accordingly, we will list below each well drilled by him and a comment regarding such things as may be necessary to complete our files and bring them up to date.

I call your attention to Arizona Statutes, specifically ARS 27-516.2, which specifically provides for the filing of all logs and drilling records within 90 days from completion of a well drilled for oil or gas. A hole drilled for stratigraphic purposes does avoid some of our requirements such as spacing and footage requirements. However in all other ways, including the filing of information, the Rules and Regulations of this Commission must be complied with. Accordingly, as to the well below indicated, please file such logs and drilling records as you do have.

As you are aware, all of Mr. Fohs' wells were covered by a \$10,000 bond wherein U.S. Fidelity and Guaranty Company was surety and Mr. Fohs was principal. This bond is conditioned upon full compliance with our Rules and Regulations and, again, specifically as to the filing of necessary information.

You have advised that this bond was cancelled sometime in 1962. However, our records fail to reflect a cancellation of this bond. As you are aware, once a bond is posted with this Commission it may be cancelled only upon order of this Commission.

Santa Fe #1-9
SW/4NW/4 9-T19N-R23E, Navajo County
Our File 160

Our records reflect that this well has been properly plugged and abandoned. However, we do need a well completion report (as differentiated from the Plugging Record or Application to Abandon.).

June 22, 1965

Santa Fe #1-21
SE/4NE/4 21-T19N-R23E, Navajo County
Our File 161 *Rec'd*

Our file reflects that this well has been properly plugged and abandoned. However, we do need the Well Completion Report.

Santa Fe 1-34
NW/4NW/4 34-T19N-R23E, Navajo County
Our File 162

Again, this well has been properly plugged and abandoned and we do need the Well Completion Report.

State 1-16
NW/4SW/4 16-T19N-R23E, Navajo County
Our file 164

This well too has been properly plugged and abandoned, but no Well Completion Report has been filed.

State 2-16
NE/4SW/4 16-T19N-R23E, Navajo County
Our File 173

This well has been plugged and abandoned but no Well Completion Report nor logs have been filed.

Finley 1-26
NW/4SW/4 26-T19N-R23E, Navajo County
Our File 174

This well has been properly plugged and abandoned but no Completion Report has been filed.

Santa Fe 1-13
Center line of S/2SE/4 13-T19N-R22E, Navajo County
Our File 161

This well has been properly plugged and abandoned. However, we do not have the necessary Well Completion Report nor the logs pertaining to this well.

For your convenience we are enclosing some copies of our Well Completion Report forms which should be filled out for each of the above indicated wells.

The logs pertaining to the two wells above listed should be forwarded to this office for our files at once.

This office does not desire to work a hardship upon any of the operators within the State. However, we must get our records complete and up to date. In most cases, Federal forms which contain substantially identical information as do the State of Arizona forms are acceptable. However, it is mandatory that our own Well Completion Report form be submitted.

Estate of F. Julius Fohs

Page 3

June 22, 1965

If you have any questions, or if we may be of help in any way, will you please advise.

We very much appreciate your cooperation.

Yours very truly,

John Bannister
Executive Secretary
MF
enc

F. JULIUS FOHS
1077 SAN ANTONIO BUILDING
HOUSTON 2, TEXAS

May 31, 1962

Oil & Gas Conservation Commission
State of Arizona
3500 North Central Avenue, Suite 221
Phoenix 12, Arizona

Attention: Mr. Don A. Jerome

Dear Sir:

I herewith enclose for the Commission's files the following Electrical logs of wells drilled under our direction and all located in Township 19 North, Range 23 East, Navajo County, Arizona.

- (1) Santa Fe #1-9Located in Section 9
- (2) Santa Fe #1-16.....Located in Section 16
- (3) Santa Fe #1-21.....Located in Section 21
- (4) Finley-Arizona Land #1-25....Located in Section 26
- (5) Santa Fe #1-34.....Located in Section 34

Logs of two Stratigraphic test wells will ultimately be released, but are presently withheld for trading purposes.

Log on our last endeavor, Santa Fe #1-13 in Section 13 of T-19-N, R-22-E is not ready for release as yet.

Thanking you for your cooperation and indulgence,

Yours very truly,

F. JULIUS FOHS

Walter Larke
By: Walter Larke, Geologist

WL:hc
Encs.

161

January 2, 1962

Mr. Frank Ewing
Hungiville-Ewing Oil Investments, Inc.
Suite 205 - 3500 North Central Avenue
Phoenix 12, Arizona

Re: F. Julius Fohs tests:
Finley #1-26, Sec. 26, T19N, R23E, Navajo County
Santa Fe #1-21, Sec. 21, T19N, R23E, Navajo County
State #2-16, Sec. 16, T19N, R23E, Navajo County

Dear Frank:

Enclosed for your files are approved Forms O & G 55,
Application to Abandon, on the above described tests.

Yours very truly,

Brooks Pierce
Petroleum Geologist

BP:hmc
encs 3

F. JULIUS FOHS

Refer to Santa Fe #1 for Blanket Bond and
Organization Report.