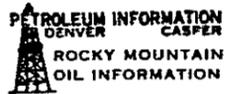


P-W

Julius Fohn, Santa Fe
SE/4-SE/4 Sec 13-1wpl9N-R22E
Navajo, County 181

181
ARIZONA
NAVAJO CO.
WILDCAT (W)



Twp 19n-22e
Section 13
c s $\frac{1}{2}$ se
660 n/s 1320 w/e

OPR: F. Julius Fohs

WELL #: 1-13 Santa Fe

ELEV: 5606 DF
TOPS: Log-Sample

DSTS. & CORES:

SPUD: 4-11-62 COMPL: 5-4-62
TD: 1838 PB:
CSG: 5 $\frac{1}{2}$ " @ 102 w/25

PERF:

PROD. ZONE:

INIT. PROD: D & A

Contr: Meyers

CARD WILL BE RE-ISSUED WHEN DATA IS RELEASED

ARIZ 4-262160

*For Electric Logs on Rocky Mountain Wells—Ask Us!

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 **1-13** Field & Reservoir **Wildcat**

Location **1320 WEL & 660 NSL of section** County **Navajo**

Sec. TWP-Range or Block & Survey **Section 13, T-19-N, R-23-E, Gila & Salt River Survey**

Date spudded **4-11-62** Date total depth reached **5-3-62** Date completed, ~~XXXXXX~~ **5-4-62** Elevation ~~XXXXXX~~ **5604** feet Elevation of casing hd. flange **5604** feet

Total depth **1838'** P.B.T.D. **None** 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) **Surf. to 1838** Cable tools used (interval)

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

Type of electrical or other logs run (check logs filed with the commission) **Induction- Electric Log** Date filed **6-29-65**

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'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 Walter Larke, Geologist of XXXX F. Julius Fohs, Operator XXXXX 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. 181

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*
Chinle Cong.	0	370	shale, multicolored, w/ few hd. sd. strks.
	370	455	shale, dk. gray with few red strks.
	455	510	sand, brkn., fine to coarse with red & gray shale strks.
	510	540	shale, gray with sh red strks.
	540	760	shale, red
Moenkopi	760	935	shale, with hard strks.
	935	965	sand, hard, & red shale
	965	1560	sandstone with occasional shale strks.
Coconino	1560	1580	shale
Top Supai?	1580	1888	sand & shale, brkn.
			XXXXXXXXXXXXXXXXXXXX
			<p><u>Core #1; 1813 to 1823', Recovered 6' 0"</u> 6" sandy shale, very fine, hard, red & green mottled 5'6" sand, hard, very fine, red with scattered lenses of green sand</p>
			<u>No drill stem tests.</u>

* 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 F. Julius Fohs		Address 1077 San Jacinto Bldg., Houston 2, Texas	
Name of Lease Santa Fe		Well No. 1-13	Field & Reservoir Wildcat
Location of Well 1320' West of East Line & 660' North of South Line, 13, 19 N.22E. Navajo		Sec-Twp-Rge or Block & Survey	County
Application to drill this well was filed in name of F. Julius Fohs	Has this well ever produced oil or gas No	Character of well at completion (initial production): Oil (bbls/day) Gas (MCF/day) Dry? Dry	
Date plugged: May 4, 1962	Total depth 1838'	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.
None			

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
None					

Was well filled with mud-laden fluid, according to regulations? **Yes** Indicate deepest formation containing fresh water. **None**

NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE

Name	Address	Direction from this well:
Arizona Land Co.	Phoenix, Arizona	On all sides

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 See Reverse Side
File this form in duplicate with the State of Arizona Oil & Gas Conservation Commission

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the **Walter Larke, Geologist** of the **F. Julius Fohs, Operator** 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 **May 11, 1962**

Walter Larke
Signature

OK-W-QJ-5-12-62

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION
Plugging Record File two copies
Form No. P-15
Authorized by Order No. _____
Effective _____

181

Plugging procedure:

A 50' cement plug was set from 1600' to 1550'; heavy mud from 1550' to 800'; cement plug from 900' to 850', heavy mud 850' to 400'; cement plug from 400' to 350'; heavy mud 350' to 30', and cement plug from 30' to surface.

APPLICATION TO ABANDON AND PLUG

FIELD Wildcat
OPERATOR F. Julius Fohs ADDRESS 1077 San Jacinto Bldg., Houston 2, Texas
LEASE Santa Fe WELL NO. 1-13 COUNTY Navajo
SURVEY Gila & Salt River SECTION 13 DRILLING PERMIT NO. 181
LOCATION 1320' West of East Line & 660' North of South Line of Section
Township 19 North, Range 22 East

TYPE OF WELL Dry Hole TOTAL DEPTH 1838
(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. None

2. FULL DETAILS OF PROPOSED PLAN OF WORK Three 50' cement plugs based at 1600', 900' and 400', also a 30' cement plug at surface. Heavy mud will fill the hole between plugs.

This program was approved by Mr. D. A. Jerome in phone conversation of May 3, 1962.

If well is to be abandoned, does proposed work conform with requirements of Rule 202? _____ If not, outline proposed procedure above.

DATE COMMENCING OPERATIONS April 11, 1962
NAME OF PERSON DOING WORK W.T. Myers Drig. ADDRESS Albuquerque, New Mexico
CORRESPONDENCE SHOULD BE SENT TO F. Julius Fohs

NAME Shatter Lark
TITLE Geologist

Date Approved 5-3-62
D A Jerome

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Abandon and Plug
Form No. 15A File 2 Copies
Authorized by _____
Effective _____

(18) 13-19N-22E
1320' FEL-660' FSL
F. Julius Fohs
#1-13 Santa Fe

6-62
pin

WILDCAT, 9 mi NE/Holbrook; 1850' Penn test; C/W.T. Myers Drig
Co, Albuquerque, elev 5603.8'GL; spud 4-11-62; Core #1,
1813-1823', rec 10' SWGSand; TD 1839'; P&A 5-4-62.
FINAL REPORT.

4-62
HOUSTON G

F. JULIUS FOHS, Houston, has commenced drilling on his #1-13 Santa Fe
located in central Navajo County. The location is 1320 feet from-east-line and
feet from-south-line of Section 13, Township 19 North, Range 22 East on an
orthodox pattern. The test, which is being contracted by W. T. Myers Drill-
Company of Albuquerque, is now drilling under 1000 feet and is being carried
"ght". It is being projected for a total depth of 1850 feet to test the Penn-
sylvanian series. The leaseblock, consisting of 4855 acres, is made up of fed-
state and Santa Fe Pacific Railroad leaseholds.

Fohs completed a seven-well program last fall in the township immedi-
ly east (Township 19 North, Range 23 East) of the new project, of which all
s were Coconino tests ranging in depth from 678-1073 feet. The general area
is seven miles west of the Petrified Forest and approximately nine miles north-
east of Holbrook.

OG #181

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL DEEPEN PLUG BACK

NAME OF COMPANY OR OPERATOR _____ DATE **April 10, 1962**

F. Julius Fohs **Houston 2** **Texas**
Address City State

1077 San Jacinto Building

DESCRIPTION OF WELL AND LEASE

Name of lease Santa Fe Pacific Railroad Company	Well number 1-13 Fohs	Elevation (ground) 5603.8 Ground
Well location <small>(give footage from section lines)</small> 1320' FKL and 660' FSL	Section—township—range or block & survey 13 19N 22E	
Field & reservoir (if wildcat, so state) wildcat	County Navajo	

Distance, in miles, and direction from nearest town or post office
9 miles Northeast of Holbrook, Arizona

Nearest distance from proposed location to property or lease line: 660 feet	Distance from proposed location to nearest drilling completed or applied—for well on the same lease: non-applicable feet
---	--

Proposed depth: 1800 feet	Rotary or cable tools Rotary	Approx. date work will start April 12, 1962
-------------------------------------	--	---

Number of acres in lease: 2,634.92 acres	Number of wells on lease, including this well, completed in or drilling to this reservoir: non-applicable
--	---

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

Status of bond
Blanket Bond Filed

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)

(1) Survey plat in process of being prepared and will be forwarded immediately upon completion.

(2) This is a proposed oil test.

UNAUTHORIZED LOCATION GRANTED SUBJECT TO HEARING TO BE HELD ON APRIL 25, 1962.

* Fill in Proposed Casing Program on other side

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the agent in fact for F. Julius Fohs (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.

April 10, 1962 Date

J. R. Hungville Signature
J. R. Hungville

Permit Number: **181**
 Approval Date: **April 11, 1962**
 Approved By: **Lynn Lockhart, Vice Chairman**
 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

Form No. P-1 File two copies

Authorized by Order No. **4-8-59**

Effective **April 8, 1959**

INSTRUCTIONS

READ CAREFULLY AND COMPLY FULLY

For the purpose of this determination attach hereto a neat, accurate plat, map or sketch of this lease, section, block or lot locating thereon the proposed site for this location. Plat shall be drawn to a scale which will permit the facile observation of all pertinent data. Show distances of the proposed well from the two nearest lease and section lines, and from the nearest wells on the same lease completed in or drilling to the same reservoir. If the location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well, and the names and addresses of all adjoining lease or property owners.

In event plat is filed for the purpose of designating the drilling and producing unit, or proration unit, on which the proposed well is to be drilled, the boundaries of such unit shall be shown, also the boundaries of all other such units attributed to other wells on the same lease completed in or drilling to the same reservoir. The acreage contained within each unit shall also be shown.

Do not confuse survey lines with lease lines. The sketch or plat should show your entire lease if possible. If it is not practical to show the entire lease and the plat shows only a section, block or lot out of your lease, you should clearly show that same is only a part of the lease.

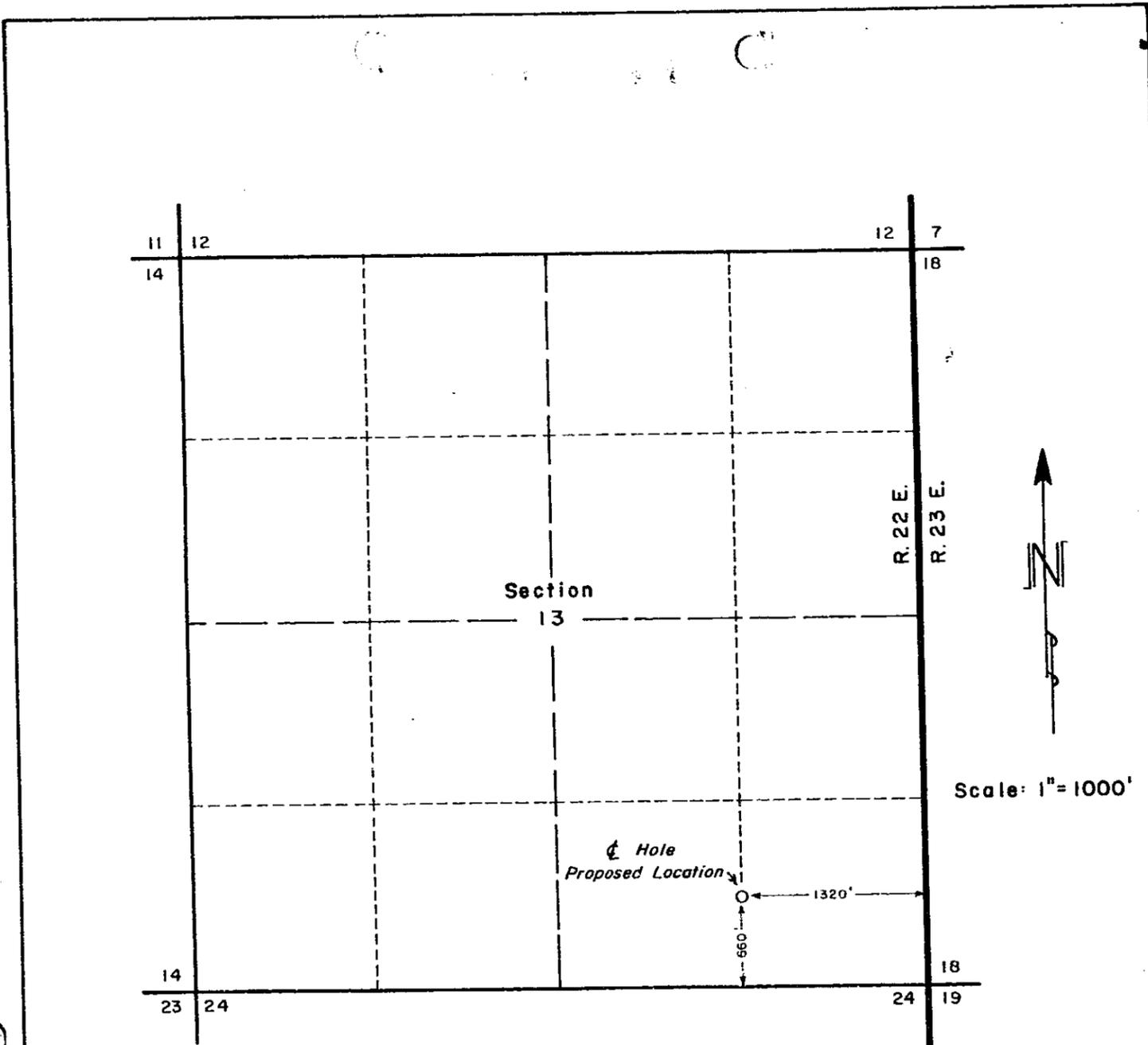
Designate scale to which plat or sketch is drawn. Also designate northerly direction on the sketch or plat.

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
5 1/2" O D	15#	J-55	Surface	90'	circulated	

I WILL PROTECT ALL FRESH WATER STRATA.

Form No. P-1



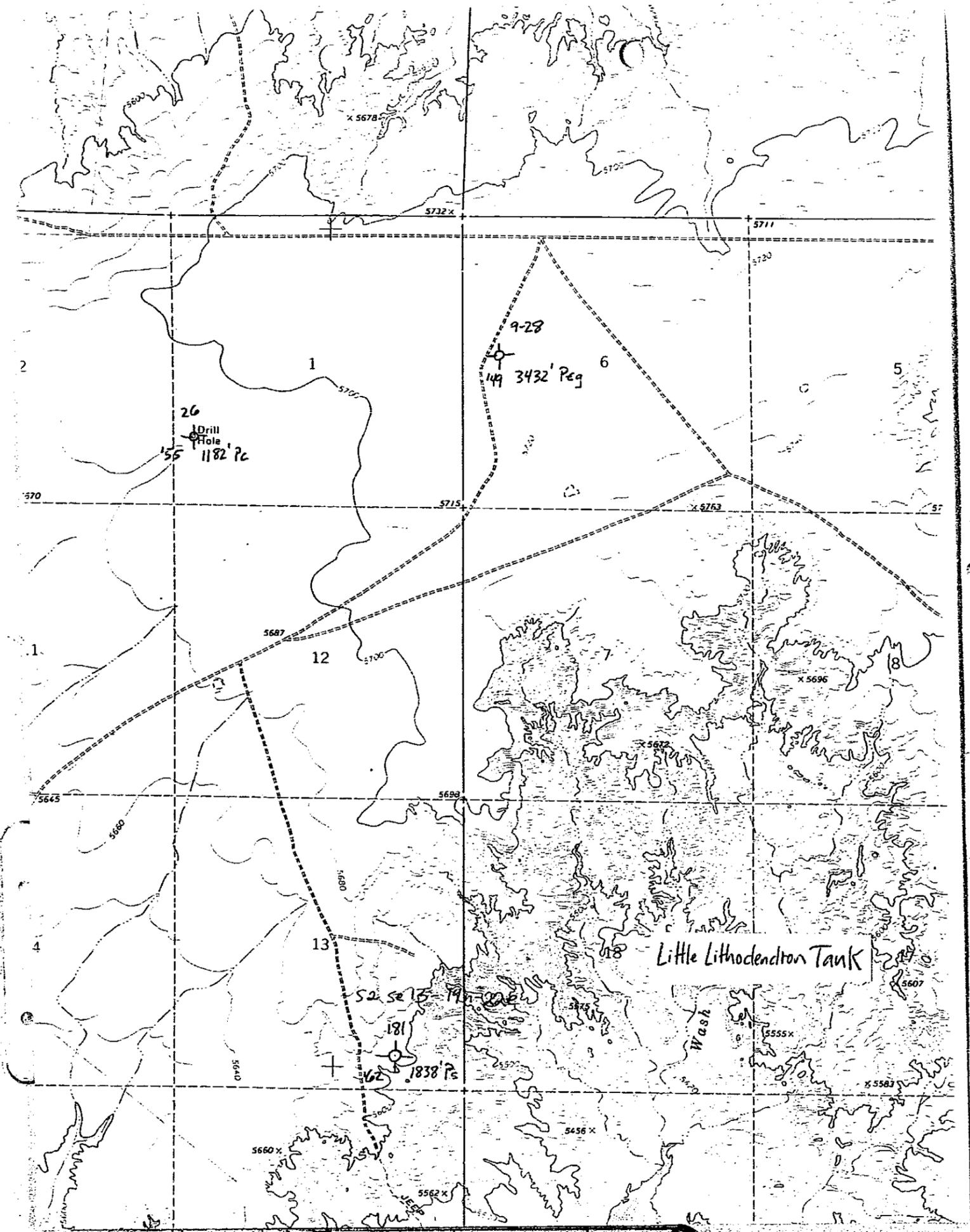
WELL LOCATION: F. J. Fohs - Santa Fe # 1-13

Located 660 feet North of the South line and 1320 feet West of the East line of Section 13,
 Township 19 North, Range 22 East, Gila & Salt River Meridian
 Navajo Co., Ariz.
 Existing ground elevation determined at 5604 feet based on Ariz. State Highway 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

E. J. FOHS - HOUSTON, TEXAS	
WELL LOCATION PLAT Sec. 13, T. 19 N. R. 22 E. Navajo Co., Arizona	
E.M. CLARK & ASSOC. Durango, Colorado	DATE: April 12, 1962 FILE NO: 62022



Rocky Mountain Well Log Service Co.

1753 Champa Street

DENVER, COLORADO

266-0588 Area Code 303

80202

BOB ANDREWS, Division Manager



September 1, 1970

CASPER, WYOMING
Bob Fitzgerald
600 So. David
234-6921

Mr. John Bannister
Arizona Oil and Gas Conservation Commission
Room 202
1624 West Adams
Phoenix, Arizona 85007

MIDLAND, TEXAS
David Clark
105 West Wall
MU 2-0591

Dear Mr. Bannister,

May I get the following log prints from you?

Santa Fe # 1-9	Wildcat	Sec -- 19N-23E	Navajo, Ariz. —
State # 1-16	Wildcat	Sec 16-19N-23E	Navajo, Ariz. —
Santa Fe # 1-34	Wildcat	Sec 34-19N-23E	Navajo, Ariz. —
Santa Fe # 1-13	Wildcat	Sec 13-19N-22E	Navajo, Ariz. —

These were all drilled in 1961. As soon as we complete our reproduction, the prints will be returned.

Thanking you in advance

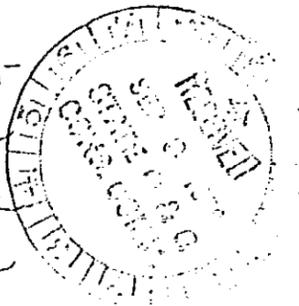
I am
Very truly yours,

Ted Strickland
Ted Strickland

TLS: jlg

Please note: The operator on these four wells was F. Julius Fohs.

Enclosed are copies of Induction-Electrical Log on each of the above wells. These are the only logs we have in our files. Hope they are what you need. A.D.



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October 11, 1963

Estate of P. Julius Feha
117 San Jacinto Building
Houston 3, Texas

Attention: Mr. Walter Larka, Geologist

Re: U.S. Fidelity & Guaranty Co. Bond 68141 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 Hanzlster
Executive Secretary
nr

June 22, 1965

Estate of F. Julius Fohs
1077 San Jacinto Building
Houston 2, 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.).

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June 22, 1965

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

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 172

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 1-1
Center line of S/2SE/4 13-T19N-R22E, Navajo County
Our File 181 *Rec'd*

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. Julia Fohs

Page 1

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 Hannister
Executive Secretary
nr
enc

181

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

May 31, 1962

File
JKP

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 #1-26....Located in Section 26
- (5) Santa Fe #1-34.....Located in Section 34

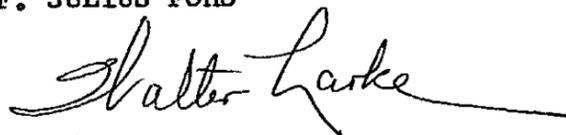
Logs of two Stratigraphic test wells will ultimately be released, but are presently withheld for trading purposes.

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



By: Walter Larke, Geologist

WL:hc
Encs.

May 14, 1962

Mr. F. Julius Fohs
1077 San Jacinto Building
Houston 2, Texas

Dear Mr. Fohs:

Enclosed are your approved copies of Application to Abandon and Plug and Plugging Record on your Santa Fe 1-13 well in Section 13, 19N, 22E, Navajo County, Arizona.

We certainly wish you much greater success in your other Arizona drilling ventures.

Best personal regards.

Yours very truly,

D. A. Jerome
Executive Secretary

hmc
encs 2

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

May 11, 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 in duplicate, forms P-15 and
15A relative to our Santa Fe #1-13 test drilled in Navajo
County.

Logs related to above test and others previously
drilled shall be mailed you very shortly.

Yours very truly,

Walter Larke

Walter Larke, Geologist

WL:hc
Encs.

Helen; mail copy of sub to Fohs.