

Eastern Petro 1 Santa Fe
SE/4-NW/4 Sec 35-21N-26E
Apache, County

107

P-W

County Apache

Area Pinta Dome

Lease No. Santa Fe Fee

Well Name Eastern Petroleum Company 1 Santa Fe

*Stratigraphic Core Test
per application to drill
FWL*

Location SW NE Sec 35 Twp 20N Range 26E Footage 2130 FNL: 2095
LS Spud Complete Total ~1910' FEL see 7.5
Elev 6060 Gr 6064 KB Date 2-29-60 Abandon 3-31-60 Depth 1616 *quad*

Contractor: _____ Approx. Cost \$ _____

Drilled by Rotary X
Cable Tool _____

Casing Size	Depth	Cement	Production Horizon
<u>8 5/8</u>	<u>60</u>	_____	_____
_____	_____	_____	Initial Production <u>D & A</u>
_____	_____	_____	_____

REMARKS: See topo map for corrected location data

Elec. Logs IE logs
Applic to Plub X Plugging Record X Completion Report X

Sample Log Am Strat
Sample Descript _____
Sample Set 7-1174 P-617
Cores _____

Water well - accepted by _____

Bond Co. & No. U.S. Fidelity & Guaranty Company 27716-13-3983-65
27716-13-3746-66

Bond Am't \$ 25,000 ~~20,000~~ Canceled 11-22-65 Date _____ Organization Report X

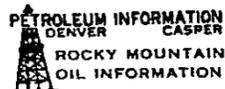
Filing Receipt 9215 dated 2-23-60 Well Book X Plat Book X

API # 02-001-05328 Loc. Plat X Dedication Entire Section 35

*Sample 617
1557*

PERMIT NO. 107 Date Issued 2-23-60

107
 ARIZONA
 APACHE COUNTY
 WILDCAT (W)



Twp 21n-26e
 Section 35
 SW NE
 2130 s/n 2095 w/e

OPR: Eastern Pet.	WELL #: 1 Santa Fe
ELEV: 6060 Gr.	DSTS. & CORES:
*TOPS: Log 2200 pk	SPUD: 2-23-60 COMPL: 3-30-60
Chinle 142	TD: 1616 PB:
Chinle Conglomerate 1153	CSG: 8-5/8" @ 91 w/50
Shinarump 1235	PERF:
Moenkopi 1263	
Coconino 1395	
very fine. Crd 1535-1548, rec 13 sd, very fine, poro, bubbling gas. Crd 1548-70, rec 22 sd, very fine, hard, dense. Crd 1570-90, rec 20 sd, very fine, hard, dense, tight. Crd 1590-1600, rec 10 sd, very fine, hard, dense, tight. DST 1494-1535, open 2 hrs 5 min, rec 170 GC mud, FP 15-85#, SIP 125#, HP 790#. DST 1541-76, (straddle pkr), rec 60 GCM, 195 sli M&GC salt wtr, FP 23-135#, SIP 152#, HP 1758-1750#. DST 1410-32 (straddle pkr), open 4 1/2 hrs, swbd 330, swbd 270 salt wtr, bottom pkr failed, FP 7-70#, HP 720#.	PROD. ZONE: INIT. PROD:
	D & A.

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: Eastern Petroleum Company Address: Box 291, Carmi, Illinois
 Federal, State or Indian Lease Number or name of lessor if fee lease: Eastern-Santa Fe Fee Well Number: 1 Field & Reservoir: Wildcat

Location: 2130' S of NL & 2095' E of WL County: Apache
 Sec. TWP-Range or Block & Survey: 35-21N-26E

Date spudded: 2-23-60 Date total depth reached: 3-4-60 Date completed, ready to produce: - Elevation (DF, RKB, RT or Gr.) feet: 6060 Gr. Elevation of casing hd. flange feet: -

Total depth: 1616 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): 0-1616 Cable tools used (Interval): -

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

Type of electrical or other logs run (check logs filed with the commission): Schlumberger electric-induction Date filed: -

CASING RECORD None

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

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 None

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	Choko size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity ° API (Corr)

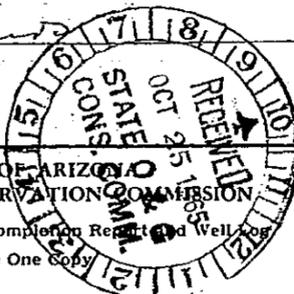
Tubing pressure	Casing pressure	Cal'ed rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio

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 Secretary of the Eastern Petroleum 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: Oct. 21, 1965

Signature: *[Handwritten Signature]*



Permit No: 107

Form No. 4

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
Chinle	142	1153	<p><u>DST #1 - 1494-1535'</u> open 125 minutes, weak blow air rec; 144' light drilling fluid, slightly gas cut 26' heavy drilling fluid, slightly gas cut Final shut in pressure 127 PSI</p> <p><u>DST #2 - 1541-1576'</u> Straddle packer test Open 90 minutes, weak blow air for 20 minutes & died Rec. - 60' drilling mud, slightly gas cut 195' saltwater, slightly mud & gas cut Final shut-in pressure 152 PSI <u>recompletion</u></p> <p><u>DST #3 - 1403-1425'</u> Open 210 minutes - weak blow of air - died in 20 minutes rec; 10' fresh water, 35' mud & 135' saltwater</p> <p><u>DST #4 - 1407-1429'</u> Open 300 minutes- weak blow-Swabbed 70 gals. mud. Mis-run</p> <p><u>DST #5 - 1410-1432'</u> Open 270 minutes - swabbed drill pipe Rec; 330' drilling mud & 270' saltwater Final shut-in pressure - none taken</p> <p>Core #1- 1468-91 - 23'- cross-bedded #2- 1491-1511- 20'- do #3- 1511-1535- 23'- do #4- 1535-1548- 13'- do #5- 1548-1570- 22'- do #6- 1570-1590- 20'- do #7- 1590-1600- 10'- do</p>
" Congl.	1153	1235	
Shinarump	1235	1263	
Moenkopi	1263	1394	
Coconino	1394	-	

* 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 Eastern Petroleum Company		Address 2520 1st Nat*1. Bank Bldg., Denver, Colo.			
Name of Lease Santa Fe		Well No. #1	Field & Reservoir Wildcat		
Location of Well 2130* S of N line & 2095* E of W line		Sec-Twp-Rge or Block & Survey 35 21N 26E	County Apache		
Application to drill this well was filed in name of Eastern Petroleum 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: March 31, 1960	Total depth 1616*	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.		
			0 - 50		
			90 - 142 140 - 190		
			320 - 340 340 - 390		
			560 - 590 590 - 640		
			Coconino Water 1394 - 1616 1350 - 1400		
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
Was well filled with mud-laden fluid, according to regulations? Yes			Indicate deepest formation containing fresh water. Sonsola		
NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE					
Name	Address		Direction from this well:		
Santa Fe Pacific R. R. Co.	Los Angeles, California		North		
Walter Duncan	Mt. Vernon, Illinois		East		
Wilkinson	Phoenix, Arizona		West		
In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required.					
Use reverse side for additional detail 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 Secretarial Assistant of the Eastern Petroleum 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 April 7, 1960		Signature <i>A. Stoutner</i>			
STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION					
Plugging Record File two copies					
Form No. P-15 4-8-59					
Authorized by Order No. _____ Effective April 8, 1959					

STATE LAND DEPARTMENT
STATE OF ARIZONA

Form O&G 55

Form Prescribed Under Oil and Gas Conservation Act 1951
APPLICATION TO ABANDON, PLUG, DEEPEND, 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: Eastern Petroleum Company ADDRESS 2520 1st Nat'l. Bank Bldg., Denver,
LEASE: Santa Fe WELL NO. 1 COUNTY Apache
SURVEY: SECTION 35, T21N, R26E DRILLING PERMIT NO.: 107
LOCATION 2130' S of N line & 2095' E of W line
Section 35, T21N, R26E

TYPE OF WELL Dry TOTAL DEPTH _____
(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: _____

2. FULL DETAILS OF PROPOSED PLAN OF WORK: In accordance with the rules and regulations, Operator will plug surface, set appropriate water plugs opposite and below surface water sands and a ceiling plug in and above the Coconino sand.
0' - 50', 140 - 190', 340 - 390', 590 - 640', 1350 - 1400'.

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 & G51.

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

DATE COMMENCING OPERATIONS: March 31, 1960
NAME OF PARTY DOING WORK: Halliburton ADDRESS Farmington, New Mexico
CORRESPONDENCE SHOULD BE SENT TO: Eastern Petroleum Company, Denver, Colorado

NAME: J. Stautner

TITLE: Assistant Division Engineer

APPROVED: 21st DAY OF July 1960.

DENIED: _____ DAY OF _____ 19____.

By: D. A. Jerome
STATE LAND COMMISSIONER
Executive Secretary

APPLICATION TO ABANDON AND PLUG

FIELD Wildcat
OPERATOR Eastern Petroleum Company ADDRESS 2520 1st Nat'l. Bk. Bldg. Denver, Colo.
LEASE Santa Fe WELL NO #1 COUNTY Apache
SURVEY SECTION 35, T21N, R26E DRILLING PERMIT NO 107
LOCATION 2130* S of N line & 2095* E of W line
Section 35, T21N, R26E
TYPE OF WELL Dry TOTAL DEPTH 1616*
(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 _____

2. FULL DETAILS OF PROPOSED PLAN OF WORK In accordance with the rules and regulations,
Operator will plug surface, set appropriate water plugs opposite and below surface water sands
and a ceiling plug in and above the Coconino sand.
0 - 50*, 140 - 190*, 340 - 390*, 590 - 640*, 1350 - 1400*.

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 March 31, 1960
NAME OF PERSON DOING WORK Halliburton ADDRESS Farmington, New Mexico
CORRESPONDENCE SHOULD BE SENT TO Eastern Petroleum Company, Denver, Colorado

NAME J. Stoutner
TITLE Assistant Division Engineer

Date approved 7/1/60

W. M. ...
STATE LAND COMMISSIONER

STATE OF ARIZONA, STATE LAND COMMISSIONER
Application to Abandon and Plug
Form No. 15A File 2 copies.
Authorized by Order No. 4-6-59
Effective April 6, 1959

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL DEEPEN PLUG BACK

NAME OF COMPANY OR OPERATOR

DATE February 9, 1960

EASTERN PETROLEUM COMPANY

Address 2520 First National Bank Building City Denver 2 State Colorado

DESCRIPTION OF WELL AND LEASE

Name of lease Santa Fe Well number No. 1 Elevation (ground) 6063* Est.

Well location (give footage from section lines) 2130* S of N line & 2095* E of W Line Section—township—range or block & survey 35 21N 26E

Field & reservoir (if wildcat, so state) Wildcat County Apache

Distance, in miles, and direction from nearest town or post office
4 miles north of Navajo, Arizona

Nearest distance from proposed location to property or lease line: Estimated 1900 feet Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: None feet

Proposed depth: 2800* Rotary or cable tools Rotary Approx. date work will start February 22, 1960

Number of acres in lease: 6,032.00 Number of wells on lease, including this well, completed in or drilling to this reservoir: One

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

Status of bond
Blanket

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)

This location application is for a STRATAGRAPHIC CORE HOLE test and is applied as a courtesy of the Eastern Petroleum Company for the benefit of the Oil & Gas Conservation Commission and its records.

* Fill in Proposed Casing Program on other side

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Geologist of the Eastern Petroleum (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.

James W. Alcorn
Signature
J. Steutner

Permit Number: # 107
Approval Date: February 23, 1960
Approved By: M. Wharton
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 STATE LAND COMMISSIONER
Application to Drill, Deepen or Plug Back
Form No. P-1 File two copies
Authorized by Order No. 4-6-59
Effective April 6, 1959

107

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.

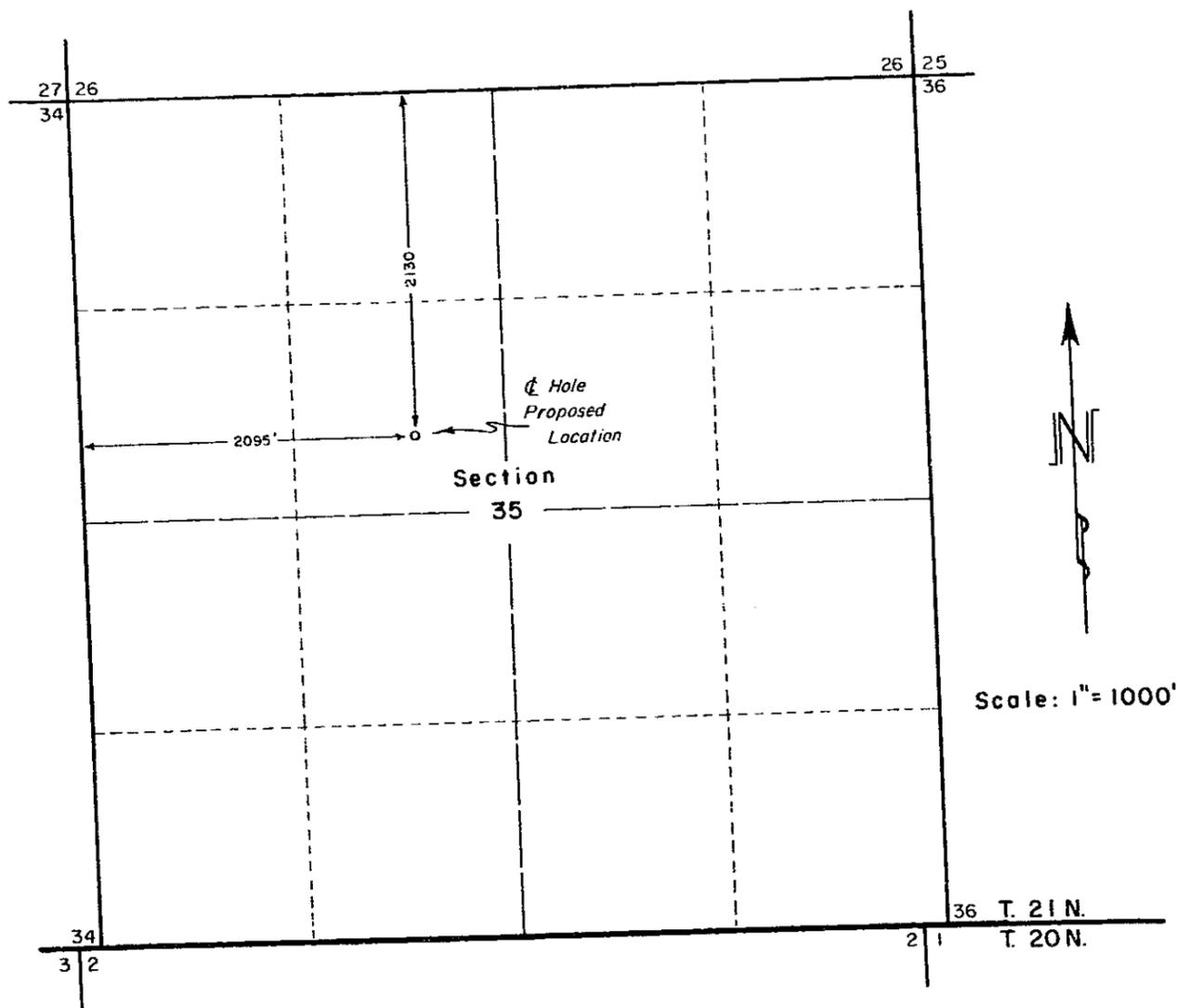
Designate scale to which plat or sketch is drawn. Also designate northerly direction on the sketch or plat.

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
XX			XXX	XIX		XXX
XXYXX				XXIX		XOIX

OK wjm

CERTIFICATE OF SURVEY



WELL LOCATION: Eastern Petroleum Co. — Santa Fe No. 1

Located 2095 feet East of the West line and 2130 feet South of the North line of Section 35,
 Township 21 North, Range 26 East, Gila & Salt River Meridian.

Existing ground elevation determined at 6063.0 feet based on Arizona State Highway Datum.

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

Elmer M. Clark

ELMER M. CLARK
 Registered Land Surveyor
 Colc. No 2279

E.M. CLARK & ASSOCIATES
 Durango, Colorado
 February 12, 1960

109 3/4

from the () of

D. A. JEROME

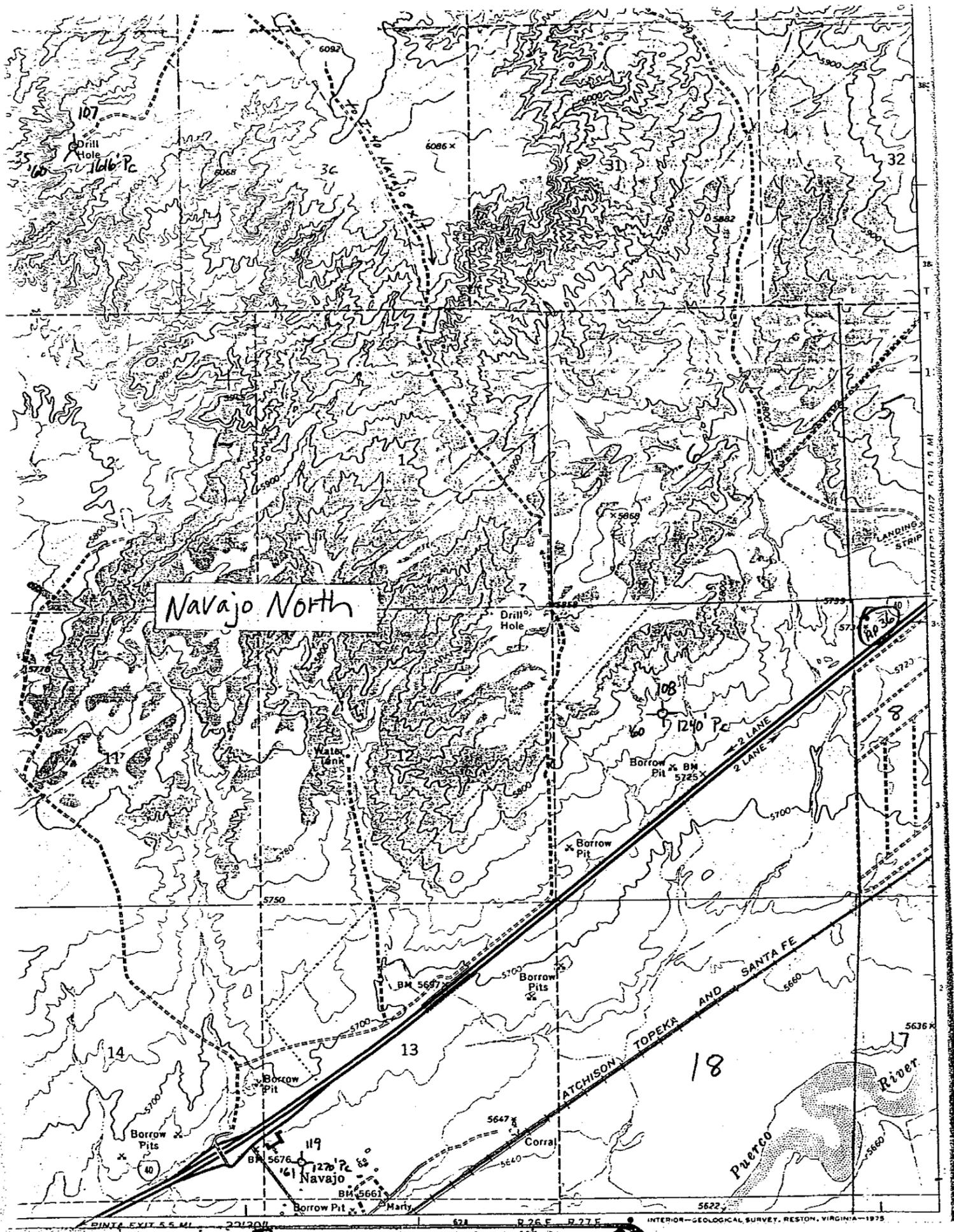
SF # 1 DJA

3/31/60

0-50
 140-190
 340-390 *ok*
 590-640
 1350-1400

5457
 200
 5657

6060
 120
 5940



SCB
copy

GEOLOGICAL COMPLETION REPORT
EASTERN PETROLEUM COMPANY
NO. 1 SANTA FE (STRAT. TEST)
SECTION 35, TOWNSHIP 21 NORTH, RANGE 26 E
APACHE COUNTY, ARIZONA
PN 107

By: Robert E. Lauth
Geological Consultant
Durango, Colorado
March 25, 1960

ROBERT E. LAUTH
Consulting Geologist

RE-COMPLETION REPORT

Eastern Petroleum Company

No. 1 Santa Fe

Section 35, T21N, R26E

Apache County, Arizona

On March 27, 1960, Eastern Petroleum Company moved a larger rig over the original No. 1 Santa Fe strat. test to ream the existing 4 3/4" hole to 7 7/8" size in an effort to derive more satisfactory and conclusive information regarding the possible helium-nitrogen productivity of the Coconino sandstone. For inert gas detection a specially calibrated Baroid Chromatograph unit was used throughout the reaming operations.

Shows of helium and nitrogen gases were noted in the mud from the following intervals: 240 - 350, 580 - 700, 800 - 810, 850 - 880, 930 - 950, 1200 - 1212, 1220 - 1240, 1260 - 1271, 1300 - 1360, 1370 - 1380, and 1390 - 1450.

Show of helium and nitrogen gases were noted in the ream sample cuttings from the following depths: 240 - 352, 590 - 700, 800 - 810, 850 - 880, 1050 - 1060, 1090 - 1120, 1150 - 1170, 1201 - 1210, 1220 - 1240, 1260 - 1272, 1290 - 1362, 1430 - 1440, 1445 - 1450. The upper hole shows were probably existant in the old mud when the original hole was drilled.

The hole was reamed to a depth of 1465 feet from rotary bushing on this rig which was 63 feet into the Coconino sandstone. Three attempts were made at setting a hook-wall type straddle packer drillstem test to obtain

conclusive results. These failed due to an upper packer and circulating plug failure. A fourth test from 1410 to 1432 feet finally gave conclusive results. The fluid recovered was snubbed out of the drill pipe. Recovery through snubbing was 330 feet of drilling mud (103 gallons) and 270 feet of salt water (84 gallons). The complete results of the above drillstem tests are given in the following section.

At this point it was decided to cease further operations and abandon the hole.

Plugging was done in the manner prescribed by The Arizona Oil & Gas Commission.

Respectfully submitted,

Robert E. Lauth

Robert E. Lauth

Geological Consultant

Durango, Colorado

April 15, 1960

DROLLSTEM TEST RECORD

(Re-completion)

Eastern Petroleum Company

No. 1 Santa Fe

Sec. 35, T21N, R26E

Apache County, Arizona

- DST No. 3 1403 - 1425 (Coconino sandstone)
Opened 210 minutes - weak blow of air and died in 20 minutes.
Rigged up subb to subb fluid; line too short. Tried to pull
a vacuum, did not work.
Shut-in for 30 minutes - clock had stopped, no pressures re-
corded.
Recovered 10' fresh water, 35' mud, 135' salt water.
- DST No. 4 1407 - 1429 (Coconino sandstone)
Opened 300 minutes - weak blow, started subbing drill pipe.
Subbed 70 gals mud. Plug above packer pumped out. Test is
a mis-run. Seated packer twice.
- DST No. 5 1410 - 1432 (Coconino sandstone)
Opened 270 minutes - subbed drill pipe.
Recovered subbing 330' drilling mud and 270' salt water.
Initial hydrostatic pressure: 720 psig
Final hydrostatic pressure: 720 psig
Initial flow pressure: 7 psig
Final Flow pressure: 70 psig
Initial shut-in pressure: None taken
Final shut-in pressure: None taken
Temperature: 85°F

GEOLOGICAL COMPLETION REPORT

Eastern Petroleum Company
No. 1 Santa Fe (strat. test)
Section 35, T21N, R26E
Apache County, Arizona

WELL DATA

Rotary: Surface to total depth - mud drilled 110' to TD
Spud date: February 23, 1960
Date drilling completed: March 4, 1960
Initial production: temporarily abandoned
Surface casing: 8" conductor pipe
Production casing: none
Contractor: C. C. Smith Drilling Co.
200 Leach Ave., Grants, New Mexico
Well location: SE NW Sec. 35, Township 21 North, Range 26 East,
Apache County, Arizona (2095' FUL, 2130' FUL)
Elevation: 6060' ground
Total depth: 1676 feet

FORMATION TOPS

Formation	Depth	Elevation	Thickness
Chinle	142'	+5978	1093'
Chinle congl.	1153'	+4907	29'
Shinarump congl.	1235'	+4825	28'
Moenkopi	1263'	+4797	131"
Coconino	1394'	+4666	—

CORRELATION

Formation	Eastern Petr. 7-Santa Fe NW 35-21N-26E	Eastern Petr. 7-28 State SE 28-20N-26E	Kerr McJee No. 1 Reese SE 27-20N-26E
Chinle congl.	+4907	+5029	+4895
Coconino ss.	+4666	+4768	+4649

DISCUSSION

The purpose of this report is to present geological information and basic data concerning the Eastern Petroleum Company's No. 1 Santa Fe (strat. test) located in the SE-NW of Section 35, Township 21 North, Range 26 East, Apache County, Arizona.

Lost circulation problems were minor although some mud was lost into the Coconino sandstone while coring.

Seven cores for a total footage of 132 feet and two drillstem tests were taken in the Coconino sandstone. Details of the cores and drillstem tests are included in this report. Careful examination of the sample cuttings was made at the wellsite at the time of drilling.

A Schlumberger Electrical-Induction Log was run from 90 feet to a depth of 1616 feet. A micralog was run from 600 feet to 1616 feet.

All measurements are from ground level.

Final formation tops have been adjusted and picked from electrical-log curves related to sample cutting examination and stratigraphic correlation.

STRATIGRAPHY

Attached to this report is the sample description made by the writer from 10 foot and 5 foot sample cuttings for the interval 0 to 1616 feet.

The lithology and correlation of the possible producing horizons are discussed in the following paragraphs.

Shinarump conglomerate 1235 - 1263 (28 feet)

The Shinarump conglomerate in this well is composed of sandstone white to light gray to red in color, fine to medium grained, subangular to

angular grains. Lost circulation of approximately 20 barrels of drilling fluid happened in the top of the formation from 1235 to 1240. Bubbling of gas was noted in the tighter sandstone samples from 1230 to 1270. It is believed that this formation carries helium-nitrogen gas.

Coconino sandstone 1394 to 1616 (penetrated 222 feet)

The Coconino sandstone is massive, buff to red to yellow in color, very fine to fine grained with occasional streaks of medium grains. In the core it exhibited much cross-bedding. An interfingering or transition with its equivalent sandstone, the DeChelly sandstone, appears to exist.

By tasting, a salt water level appears to exist at 1577 feet. This was later verified by the connate water determinations. The Coconino was cored from 1468 to 1600 feet. Data derived from core analysis is given below. The data is segregated as to that portion above 1577 and that portion below 1577 feet.

1468 to 1577

Average porosity: 14.9% (26.5% to 7.7%)
Average permeability: 13.6 millidarcies (91.0 md to 0.20 md)
Average total water saturation (percent pore space): 71.5%
(98.2% to 48.9%)
Average connate water saturation (percent pore space): 37.7%
(51.0% to 30.3%)

1577 to 1596

Average porosity: 11.8% (15.8% to 8.4%)
Average permeability: 4.48 millidarcies (50.00 md to 0.02 md)
Average total water saturation (percent pore space): 75.7%
(95.3% to 59.4%)
Average connate water saturation (percent pore space): 59.2%
(49.2% to 66.9%)

The cores were bubbling a gas from the tighter portions of the cores for the overall interval 1511 to 1548 feet.

Coring was done with a 4 3/4" diamond head, and the core size was 2 1/4". Considerable invasion of mud and filtrate water was very evident into the cores. For this reason it was decided that the total water saturations derived from core analysis was extremely high. Connate water determinations were made at representative intervals in an effort to obtain a true water saturation.

The Induction log showed some resistivity, but basically it appeared to be reading the invaded and flushed zone.

Drillstem testing was equally inconclusive for positive results. The first drillstem test recovered only drilling mud and filtrate water.

With the above results it is then necessary to have additional information to decide the true productivity that is indicated for the interval 1394 to 1577 feet.

CONCLUSIONS

The geological information derived from this test gave an indication of the possible potential of the Coconino sandstone.

The coring, although extensive, was small cores (2 1/4" diameter). Considerable invasion of mud and filtrate water was very evident when the cores were pulled from the core barrel. For this reason connate water determinations were made at representative intervals. These showed a definite water table at 1577 feet which is where a salty taste was evident in the cores.

Drillstem test information also gave inconclusive results due to the high mud and filtrate invasion into a low pressure formation.

The induction curve appeared to be reading only the resistivities of the flushed and invaded zone.

The Coconino sandstone from 1394 to 1577 appears to be capable of helium gas production. Additional information is necessary before a positive conclusion can be made.

The writer expresses his appreciation for the opportunity of making this well study and respectfully submits this report.

Robert E. Lauth

Robert E. Lauth
Geological Consultant
Durango, Colorado
April 15, 1960

CORE DESCRIPTION

Eastern Petroleum Company
No. 1 Santa Fe (strat. test)
Sec. 35, T21N, R26E
Apache County, Arizona
Elevation 6060' ground level

Core No. 1 1468 - 1491 (cut 23', recovered 22½')

(Coring time (minutes per foot) 4, 3, 2, 3, 4, 3, 3, 3, 4, 3, 4,
4, 3, 4, 3, 4, 4, 3, 4, 3, 4, 3, 4.

6' Sandstone, buff, rust colored in part, very fine grained,
subround to subangular, with pale green thin
shale streaks on bedding planes.

8' Sandstone, buff, white, very fine to fine grained, subround
to subangular with thin pale green shale streaks.

8½' Sandstone, buff-red, very fine grained, shaly in part as
thin streaks.

Entire sandstone is cross-bedded.

Core No. 2 1491 - 1511 (cut 20', recovered 20½')

(Coring time (minutes per foot) 3, 4, 4, 3, 3, 4, 2, 4, 3, 4,
3, 3, 3, 4, 4, 3, 3, 3, 3, 4.

12' Sandstone, buff-red, very fine grained, subround to sub-
angular, with red and light green shale streaks,
iron oxide stain and manganese on bedding planes.

8½' Sandstone, buff, yellow and red, very fine to fine grained,
shaly in part, subround to subangular, bubbling
gas in lower part.

Entire sandstone is cross-bedded.

Core No. 3 1511 - 1535 (cut 23', recovered 23')

(Coring time (minutes per foot) 4, 3, 3, 4, 3, 4, 5, 7, 8, 4, 4, 3,
5, 3, 5, 6, 4, 5, 5, 4, 5, 5, 4.

14' Sandstone, buff, yellow, red, very fine grained, slightly

shaly in streaks, bubbling gas throughout.
9' Sandstone, buff, yellow-red, very fine to fine grained with thin shaly streaks on bedding planes, bubbling gas throughout.
Entire sandstone is cross-bedded.

Cone No. 4 1535 - 1548 (cut 13', recovered 13' - barrel jammed)
(Coring time (no record).
13' Sandstone, buff, red and yellow streaked, very fine grained with thin laminae of shale along bedding planes, fractured in lower part and bubbling gas in lower part.
Entire sandstone is cross-bedded.

Cone No. 5 1548 - 1570 (cut 22', recovered 20½' - losing mud)
(Coring time (no record).
20½' Sandstone, buff to gray with yellow and red streaks, very fine to fine grained, subround to subangular.
Entire sandstone is cross-bedded.
Lost circulation while coring above.

Cone No. 6 1570 - 1590 (cut 20', recovered 20')
(Coring time (minutes per foot) 3, 6, 5, 4, 5, 6, 4, 4, 4, 4, 5, 4, 3, 4, 3, 4, 4, 5, 6, 5.
8' Sandstone, buff, fine to very fine grained, subround to subangular, good porosity and permeability.
12' Sandstone, buff, fine to medium grained, subround to subangular, very salty taste.
Entire sandstone is cross-bedded.
By tasting there is salt water level at 1578 feet.

Cone No. 7 1590 - 1600 (cut 10', recovered 6')
(Coring time (minutes per foot) 9, 10, 6, 7, 8, 5, 30, 42, 29, 11.
Junk in the hole, pulled cone barrel.
6' Sandstone, buff, fine to medium grained, very salty taste.
Sandstone is cross-bedded.

DRILLSTEM TEST RECORD

Eastern Petroleum Company
No. 1 Santa Fe (strat. test)
Sec. 35, T21N, R26E
Apache County, Arizona
Elevation 6060' ground level

DST No. 1 1494 - 1535' (Coconino sandstone)
Opened 125 minutes, weak blow air for the test
Recovered: 144 feet of light drilling fluid, slightly gas cut.
26 feet of heavy drilling fluid, slightly gas cut.
Shut-in time, initial: 60 minutes
Shut-in time, final: 30 minutes
Initial flowing pressure: 15 psig.
Final flowing pressure: 85 psig.
Initial shut-in pressure: 127 psig.
Final shut-in pressure: 127 psig.
Initial hydrostatic pressure: 790 psig.
Final hydrostatic pressure: 790 psig.

Note: The above drillstem test gave inconclusive results for evaluating the formation potential. The Coconino sandstone in this area is a low pressure sandstone having an average pressure of 125 psig. Mud invasion shown by the cones and logs appeared to be very great so that recovery would be only drilling fluid.

DST No. 2 1541 - 1576 (Coconino sandstone)
Saddle packer test
Opened 90 minutes, weak blow air for 20 minutes and died.
Recovered: 60 feet drilling mud, slightly gas cut.
195 feet salt water, slightly mud and gas cut.
Shut-in time, final: 15 minutes
Initial flowing pressure: 23 psig.
Final flowing pressure: 135 psig.

*Initial shut-in pressure: None taken.
Final shut-in pressure: 152 psig.
Initial hydrostatic pressure: 758 psig.
Final hydrostatic pressure: 758 psig.*

DRELLING TIME RECORD

*Eastern Petroleum Company
No. 1 Santa Fe (strat. test)
Sec. 35, T21N, R26E
Apache County, Arizona
Elevation 6060' ground level*

<i>From</i>	<i>To</i>	<i>Minutes Per Five Feet</i>
1100	1150	15-14-17-20-16-17-23-24-21-21
1150	1200	19-33-30-28-22-24-23-20-12-11
1200	1250	10-19-21-18-17-13-13-16-14-17
1250	1300	14-16-21-18-16-17-16-17-18-18
1300	1350	21-24-35-25-30-27-21-26-26-20
1350	1400	13-24-29-13-20-30-21-17-25-28
1400	1450	30-85-56-35-75-70-70-65-90-60
1450	1465	95-105-101
1468	1600	See coring time.

SAMPLE DESCRIPTION

Eastern Petroleum Company
No. 1 Santa Fe (strat. test)
Sec. 35, T21N, R26E
Apache County, Arizona
Elevation 6060' ground level

Samples start at ground level in Tertiary sandstones and shales.

0 - 150	Tertiary sandstones and shales and siltstones.
150 - 300	100 Shale light red.
300 - 330	100 Shale light red and gray.
330 - 370	100 Sandstone gray to tan, very fine grained.
370 - 400	100 Sandstone and shale, as above, very streaked.
400 - 440	100 Shale red.
440 - 500	100 Shale red and sandstone gray, streaked.
500 - 535	100 Shale red.
535 - 570	100 Sandstone gray, firm, fine to medium grained, subround to subangular.
570 - 580	100 Sandstone gray to gray green, fine to medium grained, subround to subangular, tight, clay cement. Trace of red shale, silty.
580 - 590	100 Sandstone ditto. Trace of green shale.
590 - 600	100 Sandstone ditto. Trace of green shale.
600 - 610	Trace of sandstone ditto. 100 Shale light gray, very fine grained, bentonitic, floating sandstone grains.
610 - 620	30 Sandstone gray, fine grained, hard. 70 Shale light red to light green.
620 - 630	100 Shale light red to light green.
630 - 640	100 Shale light red to light green.
640 - 650	100 Shale light red to light green; trace of purple very silty shale.
650 - 660	80 Shale light red to light green. 20 Shale purple, very silty.
660 - 670	100 Sandstone tan, very fine to fine grained, subround to round, very clayey.

- 670 - 680 90 Sandstone as above. 10 Limestone white to gray, finely crystalline.
- 680 - 690 70 Sandstone, fine grained, loose, like surface sandstone. 30 Shale purple, very calcareous, silty and light green. Trace of pyrite.
- 690 - 700 70 Sandstone ditto, like surface sandstone. 30 Shale ditto. Trace of tan chert and white limestone.
- 710 - 720 50 Sandstone white, fine grained, in matrix clay, pyritic, also red brown. 50 Shale red, tan, green, purple. Trace of gray limestone.
- 720 - 730 60 Sandstone clear, fine to medium grained, loose, round, in clay matrix. 40 Shale red, green, and gray. Trace of limestone.
- 730 - 740 60 Sandstone ditto. 40 Shale ditto, alot of red and green. Trace of tan crystalline limestone. Trace of gray chert.
- 740 - 750 30 Sandstone ditto. 70 Shale purple, slightly calcareous.
- 750 - 760 40 Sandstone clear as above, in clay matrix. 60 Shale purple to lavender, green.
- 760 - 770 Trace of sandstone. 100 Shale purple with green blebs. Trace of chert brown and tan.
- 770 - 780 20 Sandstone as above. 80 Shale ditto, some red, much chert, varicolored. Trace of limestone.
- 780 - 790 10 Sandstone clear, fine to medium grained, loose, round. 90 Shale ditto, in part silty, much chert and limestone.
- 790 - 800 10 Sandstone loose and cement. 90 Shale ditto. Much chert and limestone.
- 800 - 810 Sample ditto. Much chert amber colored and limestone.
- 810 - 820 40 Sandstone, loose in matrix of bentonitic clay. 60 Shale ditto. Some amber chert.
- 820 - 830 40 Sandstone ditto. 60 Shale ditto. Trace of chert.
- 830 - 840 30 Sandstone ditto, very fine grained, loose. 70 Shale varicolored, red, purple, green, and gray. Much chert. Trace of limestone.

- 840 - 850 40 Sandstone white to light gray, firmly cemented, some loose in clay. 60 Shale varicolored, some tan. Some chert.
- 850 - 860 30 Sandstone clean to white, very fine grained, floating in clay bentonite. 70 Shale lavender, red, green. Trace of gray chert.
- 860 - 870 30 Sandstone ditto, tan and gray, very fine grained, loose, micaceous. 70 Shale varicolored.
- 870 - 880 40 Sandstone ditto, micaceous. 60 Shale varicolored, much pale green. Trace of chert and limestone.
- 880 - 890 20 Sandstone yellow, very fine grained, silty and micaceous. 80 Shale brick red and light green.
- 890 - 900 10 Sandstone white, very fine grained. 90 Shale varicolored, pale green, red, gray, silty, micaceous, and lavender.
- 900 - 910 Trace of sandstone. 100 Shale ditto, some yellow silty. Trace of chert.
- 910 - 920 100 Shale ditto.
- 920 - 930 Trace of sandstone, floating grains. 100 Shale ditto. Trace of chert.
- 930 - 940 Trace of sandstone white, fine grained. 100 Shale ditto. Trace of chert. Trace of limestone.
- 940 - 950 Trace of sandstone ditto, micaceous. 100 Shale ditto. Trace of chert.
- 950 - 960 100 Shale varicolored.
- 960 - 970 100 Shale Ditto.
- 970 - 980 10 Sandstone, very fine grained, loose. 90 Shale light red, gray green and brick red.
- 980 - 990 30 Sandstone white, very fine grained with black carbonaceous material. 70 Shale ditto. Some chert.
- 990 - 1000 Trace of sandstone. 90 Shale ditto, pyritic. 10 Coal - lignite.
- 1000 - 1010 20 Sandstone white, very fine to fine grained, hard. Trace of coal as above. 80 Shale varicolored, some red silty.

1010 - 1020	Trace of sandstone as above. 100 Shale ditto. Trace of limestone and coal as above.
1020 - 1030	Trace of sandstone as above. 100 Shale ditto, some brown and light green.
1030 - 1040	100 Shale ditto. Some pyrite. Trace of limestone stain?
1040 - 1050	Trace of sandstone as above. 100 Shale ditto. Trace of limestone and chert.
1050 - 1060	100 Shale predominately light green, some red and purple.
1060 - 1070	100 Shale ditto.
1070 - 1080	100 Shale ditto.
1080 - 1090	100 Shale red and green as above.
1090 - 1100	100 Shale ditto.
1100 - 1110	Trace of sandstone white, fine grained. 100 Shale ditto.
1110 - 1120	100 Shale ditto, some yellow silty.
1120 - 1130	100 Shale ditto. Trace of tan crystalline limestone.
1130 - 1140	Trace of sandstone white and green, well cemented, fine grained. 100 Shale ditto. Trace of limestone.
1140 - 1150	Trace of sandstone as above. 10 limestone as above. 90 Shale ditto, predominately light green.
1150 - 1160	100 Shale ditto.
1160 - 1170	10 Limestone ditto. 90 Shale varicolored.
1170 - 1180	Trace of sandstone. 10 Limestone tan, finely crystalline. 90 Shale varicolored.
1180 - 1190	10 Sandstone clear, very fine grained. 90 Shale ditto, varicolored.
1190 - 1200	Trace of sandstone. 100 Shale ditto.
1200 - 1210	20 Sandstone white, very fine grained, good porosity and permeability, micaceous, some medium round grains. 80 Shale ditto. Trace of red chert.
1210 - 1220	30 Sandstone ditto, some medium round grains, slightly salt taste. 70 Shale ditto.
1220 - 1230	20 Sandstone red, very fine grained, silty, micaceous. 80 Shale ditto. Trace of tan limestone and chert.

1153
Top chert layer

Chert
1093' trace

1235
Top Shinarump
(29')

1263
Top Mancosha
(15')

1394
Top Alamo

1230 - 1240	70 Sandstone ditto, some white, very fine grained, also medium grained, pebbly conglomerate, bubbling gas. 90 Shale ditto.
1240 - 1250	80 Sandstone red, very fine to medium grained, subround to angular, loose. 20 Shale ditto, predominately lavender and gray. Trace of chert.
1250 - 1255	60 Sandstone ditto, bubbling gas, very friable. 40 Shale ditto.
1255 - 1260	10 Sandstone ditto, some white, very fine grained, bubbling gas. 90 Shale lavender and gray to red.
1260 - 1265	10 Sandstone clean, fine to medium grained, conglomerate. 90 Shale red silty, gray.
1265 - 1270	30 Sandstone ditto, bubbling gas. 70 Shale ditto.
1270 - 1275	60 Sandstone ditto, micaceous, bubbling gas. 40 Shale ditto.
1275 - 1280	50 Sandstone as above. 50 Shale red silty.
1280 - 1285	30 Sandstone ditto. 70 Shale ditto.
1285 - 1290	10 Sandstone ditto. 90 Shale ditto and light gray.
1290 - 1300	10 Sandstone ditto. 90 Shale ditto.
1300 - 1310	10 Sandstone ditto. 90 Shale ditto.
1310 - 1320	40 Sandstone red, very fine grained, well cemented. 60 Shale varicolored, predominately light gray.
1320 - 1330	10 Sandstone ditto. 90 Shale ditto.
1330 - 1340	Trace of sandstone, some white, very fine grained. 100 Shale ditto.
1340 - 1350	10 Sandstone, also mudstone conglomerate. 90 Shale varicolored, predominately brick red and gray.
1350 - 1360	10 Sandstone as mudstone conglomerate. 90 Shale varicolored.
1360 - 1370	100 Shale brick red, red brown, in part silty. Trace of limestone.
1370 - 1380	Trace of sandstone white, salt and pepper appearance, hard. 100 Shale as above.
1380 - 1390	20 Sandstone red to salmon colored, very fine grained, round. 80 Shale lavender and red silty.
1390 - 1400	10 Sandstone as above, some white, very fine grained. 90 Shale brick red.

1400 - 1410	40 Sandstone red as above, fine to medium grained, loose, clean, angular to round. 60 Shale ditto. Trace of chert.
1410 - 1420	60 Sandstone white to tan, very fine grained, round to subround. 40 Shale dark red.
1420 - 1425	10 Sandstone white as above. 90 Shale varicolored.
1425 - 1430	10 Sandstone as above. 90 Shale as above.
1430 - 1435	30 Sandstone ditto, some loose, very fine to fine grained. 70 Shale ditto.
1435 - 1440	30 Sandstone ditto, very much loose, very fine to fine grained, clear. 70 Shale ditto. Trace of limestone nodules.
1440 - 1445	10 Sandstone ditto, very much loose, very fine to fine grained, clear. 90 Shale ditto. Limestone tan nodules.
1445 - 1450	30 Sandstone root beer colored, very fine grained. 70 Shale ditto.
1450 - 1455	40 Sandstone buff, fine to medium grained, good porosity and permeability. 60 Shale ditto.
1455 - 1460	20 Sandstone ditto. 80 Shale brick red with limestone streaks.
1460 - 1465	80 Sandstone buff, fine to medium grained, good porosity and permeability, much loose. 20 Shale chocolate red.
1465 - 1468	50 Sandstone ditto, alot of loose sandstone. 50 Shale ditto.
1468 - 1600	See Core Descriptions
1600 - 1605	100 Sandstone buff, very fine to fine grained, subround to subangular.
1605 - 1610	100 Sandstone buff, as above.
1610 - 1616	100 Sandstone as above. TD 1616

Operator Eastern Petroleum Company

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

Bond No. 27716-13-3746-60 Date Approved 8-1-60

Permits covered by this bond:

*SEE this
file*

- | | |
|--------------|-------|
| <u>269</u> ✓ | 234 ✓ |
| <u>81</u> ✓ | 230 ✓ |
| <u>252</u> ✓ | 229 ✓ |
| <u>251</u> ✓ | 237 ✓ |
| <u>107</u> ✓ | 236 ✓ |
| <u>207</u> ✓ | 218 ✓ |
| <u>157</u> ✓ | 209 ✓ |
| <u>88</u> ✓ | 206 ✓ |
| <u>80</u> ✓ | 194 ✓ |
| <u>78</u> ✓ | 188 ✓ |
| <u>264</u> ✓ | 155 ✓ |
| <u>263</u> ✓ | 150 ✓ |
| <u>273</u> ✓ | 152 ✓ |
| <u>259</u> ✓ | 109 ✓ |
| <u>258</u> ✓ | 108 ✓ |
| <u>255</u> ✓ | 107 ✓ |
| <u>282</u> ✓ | |
| <u>250</u> ✓ | |
| <u>276</u> ✓ | |
| <u>284</u> ✓ | |
| <u>227</u> ✓ | |

CANCELLED

DATE Oct 11-22-65

May 13, 1965

Mr. Henry Pullep
Eastern Petroleum Company
Box 291
Carmi, Illinois

Dear Hank:

Attached is a list showing Eastern's wells and what we need from Eastern Petroleum in order to complete our files.

We have attempted in the past to get you to furnish this information. I do not want to have to go against the bond or to get the Attorney General in on this in order to secure this information which, as you know, by law the Commission is entitled to.

If you need any forms, or if we can help you in any way in securing and filing this information, please let us know.

Please comply with this request at your earliest convenience.

Sincerely,

John Bannister
Executive Secretary

BT
ENC

cc: Attorney General

(EASTERN (Cond No. 2112-13-5
S. Ed. & Guad. Co.

Eastern Santa Fe #23
Sec 25-24N-28E
Apache Co. Ariz.

Need: 1) Completion
2) Formation Test
3) Logs

Santa Fe #12
Sec 11-24N-27E
Apache Co.

Need: 1) Logging
2) Completion
3) Logs

Santa Fe #1
Sec 27-24N-30E
Apache Co.

Need: 1) Logging
2) Completion
3) Logs

Santa Fe #2
Sec 23-19N-27E
Apache Co.

Need: 1) Logging
2) Completion
3) Logs

Santa Fe Core Hole #2
Sec 31-20N-27E
Apache Co.
Core Hole

Need: 1) Logging
2) Completion
3) Logs

Santa Fe Core Hole #1
Sec 31-20N-27E
Apache Co.

Need: 1) Logging
2) Completion
3) Logs

Santa Fe Core #16
Sec 31-20N-27E
Apache Co.

Need: 1) Logging
2) Completion
3) Logs

Santa Fe Fee #18 Need: 1) Logging record
Sec 13-20N-27E 2) Completion "
Apache Co.

Santa Fe Fee #19 Need: 1) Logging report
Sec 12-19N-27E 2) Completion "
Apache Co.

27 Santa Fe Fee #15 Need: 1) Completion report
Sec 15-20N-27E
Apache Co.

28 Eastern #1 Reese Need: 1) Completion report
Sec 1-19N-26E 2) Logs
Apache Co.

107 Santa Fe #1 Need: (1) Completion report
Sec 35-21N-26E
Apache Co.
Strat test

Santa Fe #2 Need: (1) Completion report
Sec 7-20N-27E
Apache Co.

Santa Fe #3 Need: (1) Completion report
Sec 9-19N-27E
Apache Co.

Unit

150

Santa Fe #5
Sec 9-19N-28E
Apache Co.

need: ~~Stopping record~~
Completion report

Santa Fe #6
Sec 25-20N-28E
Apache Co.

need: completion report

234 Santa Fe #21
Sec 31-20N-28E
Apache Co.

need: (1) Logs
(2) Completion report

227 Santa Fe #23

need: (1) Logs
(2) Completion report

Note: Eastern should be informed
that we require: ① formations, tops,
② Drill stem test descriptions, and
③ Core descriptions on the
completion forms.

Eastern Petroleum Co.	File No.	Progress	Completion	Application To Plug & Abandon	Plugging Record	Logs If Available
Santa Fe #1	107		X			X
Santa Fe #2	108		X			X
Santa Fe #3	109		X			X
Santa Fe #4	152		X	X	X	X
Santa Fe #5	150		X	X	X	X
Santa Fe #6	155		X			X
Reese #1	157		X	X	X	X
Coyote Creek #1	187		X			X
Santa Fe #15	209		X	X	X	X
Santa Fe #16	218	X	X			X
Santa Fe #19	229		X			X
Santa Fe #20	230	X	X	X	X	X
Santa Fe #21	234	X	X	X	X	X
Santa Fe #18	237	X	X	X	X	X
Core Hole #2	251	X	X	X	X	X
Core Hole #1	252	X	X	X	X	X
Santa Fe #33	259	X	X	X	X	X
Santa Fe #36	264	X	X	X	X	X
Santa Fe #22	268	X	X	X	X	X
Santa Fe #37	269	X	X	X	X	X
Santa Fe #34	273	X	X	X	X	X
Santa Fe #28	276	X	X	X	X	X
Santa Fe #30	282	X	X	X	X	X
Santa Fe #24	284	X	X	X	X	X

NOTE: OR* Denotes that we need either a Progress Report on the well concerned or the other items that are checked.



PAUL FANNIN
GOVERNOR
LYNN LOCKHART
CHAIRMAN
R. KEITH WALDEN
VICE CHAIRMAN
CHARLES KALIL, M.D.
MEMBER
ORME LEWIS
MEMBER
LUCIEN B. OWENS
MEMBER

OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
ROOM 302
1024 WEST ADAMS
Phoenix, Arizona 85007
PHONE: 271-5161

JOHN BANNISTER
EXECUTIVE SECRETARY
JOHN K. PETTY
PETROLEUM GEOLOGIST

August 5, 1964

Mr. J. N. Edwards
Eastern Petroleum Company
Box 291
Carmi, Illinois

Dear Mr. Edwards:

In reviewing our files we find that we are without numerous and various forms necessary to complete our files in some cases, and in others the required forms are necessary that we may keep our files current with the operations of your wells. I am enclosing a substantial number of the required forms together with a guide so that you may fill out the proper information with the wells concerned. Inasmuch as we are trying to stay current your early cooperation will be appreciated.

If there is any assistance that we may give please advise.

Very truly yours,

Bill Cooper
Records Section

July 21st, 1960

Mr. James W. Dean
Eastern Petroleum Company
1st National Bank Bldg.
Denver 2, Colorado

Dear Mr. Dean:

Enclosed is an approved copy of Form No. 55,
Application to Abandon and Plug, for each of
the following wells:

Santa Fe #2, Sec. 7, T. 20N, R. 27E Apache Co.
Santa Fe #3, Sec. 9, T. 19N, R. 27E Apache Co.
Santa Fe #1, Sec. 35, T. 21N, R. 26E Apache Co.

Yours very truly,

D. A. Jerome
Executive Secretary

EW
Enclosures



EASTERN PETROLEUM CO.
EASTERN DRILLING, INC.

1ST NATIONAL BANK BLDG.
DENVER 2, COLORADO

July 19, 1960

Mr. D. A. Jerome, Executive Secretary
Oil and Gas Conservation Commission
Suite 312, 3500 North Central Avenue
Phoenix, Arizona

Dear Mr. Jerome:

Enclosed are two copies each of Form No. 55,
Application to Abandon and Plug, on our #1, #2,
and #3 wells in Apache County, Arizona.

We should appreciate your approving one form
for each well and returning same to this office at
your earliest convenience. Thank you for your
cooperation.

Respectfully yours,

EASTERN PETROLEUM COMPANY
Rocky Mountain Division

James W. Dean

James W. Dean

JS
Enclosures





EASTERN PETROLEUM CO.
EASTERN DRILLING, INC.

2520 FIRST NAT'L BANK BLDG.
DENVER 2, COLORADO
MA 3-5259

April 7, 1960

Mr. W. F. Maule, Petroleum Engineer
Oil and Gas Conservation Commission
Suite 312 3500 North Central Avenue
Phoenix, Arizona

Dear Mr. Maule:

Enclosed with this letter please find three
copies of Form No. P-15, Plugging Record, on our
No. 1 Santa Fe located in Section 35, Township
21 North, Range 26 East, Apache County, Arizona.

Respectfully yours,

EASTERN PETROLEUM COMPANY
Rocky Mountain Division

James W. Dean / js

James W. Dean

JS
Enclosures



**EASTERN PETROLEUM CO.
EASTERN DRILLING, INC.**

2520 FIRST NAT'L BANK BLDG.
DENVER 2, COLORADO
MA 3-5259

March 31, 1960

Mr. W. F. Maule, Petroleum Engineer
Oil & Gas Conservation Commission
3500 North Central Avenue
Phoenix, Arizona

Dear Mr. Maule:

Enclosed herewith please find three copies of Form No. 15A, Application to Abandon and Plug; on our No. 1 Santa Fe, located in Section 35, Township 21 North, Range 26 East, Apache County, Arizona.

We would appreciate your approving this form and returning one copy to this office. Thank you for your cooperation.

Respectfully yours,

EASTERN PETROLEUM COMPANY
Rocky Mountain Division

J. Stoutner
Assistant Division Engineer

JS
Enclosures

February 24, 1960

H.L. KIRBY
EASTERN PETROLEUM COMPANY
NAVAJO, ARIZONA

Dear Mr. Kirby,

We are enclosing herewith the approved copies
of your drilling permits.

Good Luck,

W. F. Maule,
Petroleum Engineer

WFM:gg



EASTERN PETROLEUM CO.
EASTERN DRILLING, INC.

1ST NATIONAL BANK BLDG.
DENVER 2, COLORADO

February 19, 1960

Mr. D. A. Jerome, Executive Secretary
Oil & Gas Conservation Commission
3500 North Central Avenue
Phoenix, Arizona

Dear Mr. Jerome:

We are enclosing herewith two copies of Form
No. P-1 along with two surveyor's plats on each of
our proposed wells, all of which are located in
Apache County, Arizona.

Respectfully yours,

EASTERN PETROLEUM COMPANY
Rocky Mountain Division

James W. Dean /js

James W. Dean

Enclosures
JS