M-d

Eastern Petroleum Co. 1-28 State
SE/4-SE/4 Sec. 28 -Twp. 20N -R26E

County Apache

Area Pinta Dome

Lease No. State 2089

Well Name Eastern Petroleum Company 1-28 State [redacted]

Location SE SE Sec 28 Twp 20N Range 26E Footage 660 FSL; 660 FEL

Elev 5685 Gr 5690 ~~KB~~ DF Spud Date 6-17-59 ~~Complete~~ ~~Plug~~ Abandon 9-21-60 Total Depth 1091 PB 1051

5696 5702 KB per Lane-Wells report

Contractor 5699 5705 KB per ~~ENC~~ from USGS 2½' quad Approx. Cost $

Drilled by Rotary X
Cable Tool

Casing Size	Depth	Cement
8 5/8	48'	50 sks
4½	1051	100 sks

Production ~~Horizon~~ Interval Coconino 937-1000

Initial Production IPF 2140 MCFPD
3/4" chk; SICP 100#
8/56% Helium

REMARKS: Three cores; one DST: see file.

Elec. Logs Microlog; IE

Applic to Plub ✓ Plugging Record ✓ Completion Report X

Sample Log
Sample Descript
Sample Set I-1178 P[redacted]622
Cores

Water well - accepted by

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

Bond Am't $ ~~10,000~~ 25,000 Cancelled ~~7-22-65~~ Date Organization Report X

Filing Receipt 64080 dated 7-1-59 Well Book X Plat Book X

API # 02-001-05292

Loc. Plat X Dedication All Section 28

Sample 622
1558

PERMIT NO. 88 Date Issued 6-18-59

Formation Tops	Scout	Sample	E. Log	Remarks
Shinarump			761	
Moenkopi			801	
Coconino			935	

Core Analysis, DST cha:

Apache County, Arizona OWO 88

Operator EASTERN PETROLEUM

Well: State No. -28

Loc: Sec. 28 Twp. 20N Rge. 26E

Coord. 660FEL 660FSL Area WC

Csg. Size	Depth	Cement
8 5/8	~~98~~ 48	50
4½	1051	100

On File
S.L.
E.L.
W.L.

Spud 6-19-59

Comp/Abd 9-21-60

T.D. 1091 PB1051

LS Elev. 5685 G 5690 DF KB

Por. Hor. Coconino 937-1000 ●

Por. Hor. ★

I. P. Coconino ggd 3533 MCF, As

Geological Tops	Scout	Samp.	E. Log	S-Sea
		Hellum Well. SI		

O.W.O. Completed 9-21-60, as ~~[redacted]~~ Hellum Well.
TD. 1091', PB1051'.
PERF: 126-937-1000; wash w/100 gas HA? sub 200 MCF. Flush 937-1000 w/1500 gal. Kerosene & 1500 sd. NO BDP. IR-500 gal/min. sub 1497 MCF.
Swbd dry.
BDSWF 937-1000. 7500 w x 7,500 sd.
No BDP. IR-22.
ggd. 3583 MCF.

ARIZONA
APACHE CO.
PINTA DOME (D)

PETROLEUM INFORMATION
DENVER CASPER
ROCKY MOUNTAIN
OIL INFORMATION

Twp 20n-26e
Section 28
c se se
660 n/s 660 w/e

OPR: Eastern Pet. WELL #: 1-28 State OWWO

ELEV: 5703 KB

*TOPS: Log-~~Sample~~

Shinarump 761
Moenkopi 801
Coconino 935

DSTS. & CORES:

No cores or tests

SPUD: 9-1-60 COMPL: 9-16-60
TD: 1091 PB: 1051
CSG: 8-5/8" @ 98 w/50
4½" @ 1024 w/100
PERF: 937-1000 w/2 per ft.

PROD. ZONE: Coconino 937-1000

INIT. PROD: IPF 916 MCFGPD,
3/4" ck, SICP 100#.

***Corr ftg from 1660 n/s 1660 w/e

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

Ariz 4-068260

AMENDMENT TO JANUARY 2, 1960, FILING

STATE OF ARIZONA
OIL AND GAS CONSERVATION COMMISSION
PHOENIX, ARIZONA

FORM O&G 52

Form Prescribed Under Oil and Gas Conservation Act of 1951

WELL COMPLETION REPORT

(File in Duplicate)

Operator Eastern Petroleum Company Field Pinta
Street 2520 First National Bank Building Pool
City Denver 2 State Colorado County Apache
Lease Name State of Arizona # 2089 Well No. 1-28 Acres in Unit
Location 660 feet N of S line, 660 feet W of E line
Sec. 28 Twp. 29N Rge. 26E
Elevation DF 5703' GR Electric Log Run June 26, 1959 19
Number of Crude Oil Producing Wells on this Lease, including this well 1
Has Authorization to Transport Oil or Gas From Well, Form O&G 57 been filed? No

OFFICIAL COMPLETION GAUGE

Date Test Commenced 9-16- 19 60 Hour A M. Date Test Completed 9-16 19 60 Hour P. M
Length of Test 5 Hours Minutes

For Flowing Well:
Flowing pressure on Tbg. lbs. / sq. in.
Flowing pressure on csg. 100 lbs. / sq. in.
Size tbg. in. No. ft. run
Size choke 4 points in. Type choke
Length in. Shut in pressure

For Pumping Well:
Length of stroke used inches
Number of strokes per min.
Size of working barrel inches
Size tubing in. No. ft. run

If flowing well, was this well flowed for the entire duration of this test without the use of swab or other artificial flow device? Yes If jetted, used cu. ft. gas per bbl. oil. Result of this test 2,140 MCFPD
Gas-oil ratio of this well is cu. ft. of gas per bbl. of oil.
Per cent water produced during this test
Gravity of oil produced during this test (Corrected to A. P. I. 60° F)
Name of Pipe Line or other carrier
If perforated: No. Shots 126 From 937 To 1000 Date Perforated
Date well Spudded June 17, 19 59. Date Well Completed September 12, 19 60
Top Pay 935 Ft. Total depth of well 1091 Ft.

CASING LINER AND TUBING RECORD

String	Size	Wt. / Ft.	Name and Type	Amount Ft.	Amount In.	Depth Set at	Perforated From	Perforated To

CEMENT AND TESTING RECORD

Size of Hole	String	Where Cement Placed	No. Sacks Cement	Method Used	Pressure Applied in Testing	Hardness of Cement Drilled	Type of Cement
6 3/4	4 1/2	T.D.	100	Howco	2,000 lbs.		No Record

CHEMICAL OR SHOOTING RECORD BEFORE COMPLETION

Size	Chemical or	Quantity	Date	Depth From	Depth To
	Mud Ban	1500 Gins/1500 Lbs.	9-8-60	937	1000
	Riverfrac	7500 Gins/ 7500Lbs.	9-10-60	937	1000

AFFIDAVIT

I, J. Stoutner, being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

J. Stoutner
Representative of Company

STATE OF COLORADO)
) ss.
CITY & COUNTY OF DENVER)

Subscribed and sowrn to and before me this 27th day of September, 19 60
by J. Stoutner
My Commission expires: April 23, 1963

Notary Public

RECEIVED 1960 O & G STATE CONS. COMM.

8S 9

PLUGGING RECORD

Operator	Address
Kerr-McGee Corporation	P. O. Box 250, Amarillo, TX 79105

Federal, State, or Indian Lease Number, or lessor's name if fee lease.	Well No.	Field & Reservoir
State	1-28	PINTA DOME/Coconino Sand

Location of Well	Sec-Twp-Rge or Block & Survey	County
SE-SE, Section 28, Twp 20N, Rge 26E		Apache

Application to drill this well was filed in name of	Has this well ever produced oil or gas	Character of well at completion (initial production): Oil (bbls/day)	Gas (MCF/day)	Dry?
Eastern Petroleum Co.	Yes-Helium	Unknown	Unknown	No

Date plugged:	Total depth	Amount well producing when plugged: Oil (bbls/day)	Gas (MCF/day)	Water (bbls/day)
4/14/77	1091'	0	68	0

Name of each formation containing oil or gas. Indicate which formation open to wellbore 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
N/A			

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
8 5/8"	48'	0	48'	---	EZSV Retainer at 881'
4 1/2"	1051'	0	1051'	---	----

Was well filled with mud-laden fluid, according to regulations?	Indicate deepest formation containing fresh water.
Yes	

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

Name	Address	Direction from this well:
Kerr-McGee Corporation	P. O. Box 250, Amarillo, TX 79105	All

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.

Well P & A by setting 4 1/2" EZSV cement retainer at 881' with 50 sxs Class "B" Cement pumped below retainer and 72 sxs Class "B" Cement from retainer to surface.

Use reverse side for additional detail.

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Engineering Assistant of the Kerr-McGee Corporation (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 22, 1977
Date

Lynn Kelley
Signature

Lynn Kelley

APR 25 1977

D & G CONS. COMM.

Permit No. 85

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Plugging Record
File One Copy

Form No. 10

APPLICATION TO ABANDON AND PLUG

FIELD Pinta Dome

OPERATOR Kerr-McGee Corporation ADDRESS P. O. Box 250, Amarillo, TX 79105

Federal, State, or Indian Lease Number or Lessor's Name if Fee Lease State WELL NO 1-28

SURVEY T-20N, R-26E SECTION 28 COUNTY Apache

LOCATION

TYPE OF WELL Gas (Helium) (Oil, Gas or Dry Hole) TOTAL DEPTH 1091'

ALLOWABLE (If Assigned) None

LAST PRODUCTION TEST OIL 0 (Bbls.) WATER 0 (Bbls.)

GAS 68 (MCF) DATE OF TEST 2-5-72

PRODUCING HORIZON Coconino Sand PRODUCING FROM 937' TO 1000'

1. COMPLETE CASING RECORD

8-5/8" - cemented with 50 sx at 48'.

4-1/2" - cemented with 150 sx at 1051'.

PBTD 1051'.

2. FULL DETAILS OF PROPOSED PLAN OF WORK

1. Set cement retainer at 880'.
2. Squeeze 50 sx cement below retainer. Equalize 20 sx cement from 880-680'.
3. Pull tubing.
4. Fill casing to surface with cement.
5. Erect 4" pipe marker as per Rule 202-A7.

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 Upon approval.

NAME OF PERSON DOING WORK ADDRESS

CORRESPONDENCE SHOULD BE SENT TO C. J. Breeden C J Breeden
Name

District Manager
Title

P. O. Box 250, Amarillo, TX 79105
Address

March 1, 1977
Date

Date Approved 3-7-77

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By: W. E. Allen

Permit No. 78

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Abandon and Plug
File Two Copies

Form No. 9

Figures read into record by John Fisher for Kerr McGee — 9-18-68 Case # 33

KERR-McGEE CORPORATION EXHIBIT NO. 6

SUMMARY OF SURFACE SHUT-IN PRESSURES, PSIG
Pinta Dome Coconino Sand Gas Pool,
Apache County, Arizona

SUM. SALES TO 9/1

Unit Number	Well Name	Initial 10/1/61	24 Hours 10/1/62	24 Hours 6/16/63	8 Hours 1/22/64	24 Hours 8/27/64	24 Hours 11/11/65	24 Hours 5/2/66	24 Hours 12/30/66	24 Hours 12/27/67 (3 hrs & 22 hrs)	24 hrs 8/28/68
48,510 I	State 4-A (State 4)	99.4	96.0	92.80	89.4	86.1	N.M.	77.2	N.M.	N.M.	N.M.
486,572 II	State 1-28	98.8	95.6	92.43	89.3	85.8	78.6	76.8	73.9	64.5	59.5
428,951 III	Fee 1	99.3	95.5	92.20	89.2	85.6	78.5	77.0	73.1	64.4	59.4
128,668 IV	State 3-A (State 3)	99.1	95.4	92.20	89.0	81.2	N.M.	77.7	73.2	64.4	59.2
1,066,013 V	State 2	99.1	95.5	92.15	89.0	85.6	78.5	76.7	73.0	64.3	59.3
502.013 VI	State 1	99.1	95.4	92.19	88.7	85.4	78.5	77.0	73.1	64.4	59.3
489,783 VIII	Fee 2	99.3	95.7	92.45	89.2	85.8	78.7	77.1	73.3	64.5	59.5
280,690 IX	State 1-2	99.6	96.7	93.85	91.2	N.M.	83.2	81.6	77.1	69.4	63.2
43,368 X	State 1-10	99.6	96.5	N.M.	N.M.	N.M.	83.0	81.6	77.0	67.0 / 522.9	63.0 / 482.5
3,479,968	Averages	99.3	95.8	92.53	89.4	85.1	79.9	78.1	74.2	65.4	60.3

N.M. - Not measured.

NOW 4 PRODUCERS
DENSITY 1 W/ 1580 AC.

88

OPERATOR'S CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL OR GAS FROM LEASE

Lease	Field	Reservoir
Eastern State #1-28	Pinta Dome	Coconino
Survey or Sec-Twp-Rge	**County**	**State**
28-20N-26E	Apache	Arizona

Operator: Eastern Petroleum Company

ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:

Street	City	State
Box 291	Carmi	Illinois

Above named operator authorizes (name of transporter): Kerr-McGee Oil Industries, Inc.

Transporter's street address	City	State
Kerr-McGee Building	Oklahoma City	Oklahoma

Field address: Navajo, Arizona

To transport 100 % of the Gas (Oil, condensate, gas well gas, casinghead gas) from said lease.

OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:

Name of gatherer	% transported	Product transported
None		

Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change.

No Changes

The undersigned certifies that the rules and regulations of the State of Arizona Oil & Gas Conservation Commission have been complied with in drilling and producing operations on this lease, except as noted above, and that the above transporter is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property, and that this authorization will be valid until further notice or until cancelled by the State of Arizona Oil & Gas Conservation Commission.

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.

May 6, 1964
Date

Jesse N Edwards
Signature

Date approved:
MAY 11 1964

Commissioner's Number;

File No. 88

By John V Bannister
Executive Secretary
State of Arizona
Oil and Gas Conservation Commission

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION
Operator's Certificate of Compliance & Authorization to Transport oil or Gas from Lease
Form No. P-17 File three copies
Authorized by Order No. 4-6-59
Effective April 6, 1959

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16

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	Address
Eastern Petroleum Company	2520 First Nat'l. Bank Bldg., Denver, Colo.

Lease Name	Well Number	Field & Reservoir
State of Arizona #2089	#1-28	Pinta

Location: 660 feet N of S Line, 660 feet W of E Line

Sec.—TWP-Range or Block & Survey: Section 28, T20N, R26E

County	Permit number	Date Issued	Previous permit number	Date Issued
Apache	88	June 18, 1959		

Date spudded	Date total depth reached	Date completed, ready to produce	Elevation (DF, RKB, RT or Gr.) feet	Elevation of casing hd. flange feet
June 17, 1959	June, 1959		5703' K.B.	1' above G.L.

Total depth	P.B.T.D.	Single, dual or triple completion?	If this is a dual or triple completion, furnish separate report for each completion.
1091'	1051'	Single	

Producing interval (s) for this completion	Rotary tools used (interval)	Cable tools used (interval)
Coconino Sandstone	0' – 1091'	

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

Type of electrical or other logs run (check logs filed with the commission): Electrical Induction & Microlog — Date filed: January 2, 1960

CASING RECORD

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

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Surface	10 3/4	8 5/8		48'	50	
Production	6 3/4	4 1/2		1051.2'	100	

TUBING RECORD

Size in.	Depth set ft.	Packer set at ft.

LINER RECORD

Size in.	Top ft.	Bottom ft.	Sacks cement	Screen (ft.)

PERFORATION RECORD

Number per ft.	Size & type	Depth Interval
~~NOT PERFORATED~~		937-1000 (P.I Rep.)

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Am't. & 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'ted 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): Shut In

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: January 2, 1960 Signature: [signature]

MFW

4

STATE OF ARIZONA STATE LAND COMMISSIONER

Well Completion or Recompletion Report and Well Log
File two copies

Form No. P-7

Authorized by Order No. 4-6-59

Effective April 6, 1959

88

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*

* 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 Land Commissioner not later than thirty days after project completion.

Form No. P-7

Eastern Petroleum No. 1-28 State (continued)

Present Status: Shut-In

Cores:

No. 1 940 feet to 956 feet Cut 16 feet, recovered 16 feet
2' Sandstone, red to tan, streaked with light green and red sandy shale.
1' Sandstone, tan to brown, fine grained, hard, subround to subangular streaked with thin green shale.
13' Sandstone, buff to brown, fine grained, hard, subround to subangular, good porosity and permeability becoming medium grained towards the base.
Entire core was bubbling gas.
Vertical fractures from 943 to 946.

No. 2 956 feet to 969 feet Cut 13 feet, recovered 13 feet
4' Sandstone, buff, fine to medium grained, subround, good porosity and permeability.
5' Sandstone, buff, fine to medium grained, subround, very much cross bedding.
4' Sandstone, ditto, some aeolian fluting in the sandstone.
Entire core bubbling gas, vertical fractures 956 - 960 and 968 - 969.

No. 3 969 feet to 978 feet Cut 9 feet, recovered 9 feet
4' Sandstone, buff, fine to medium grained, subround to subangular, firm, fair porosity and permeability; very slight oil stain.
5' Sandstone, buff, ditto, good porosity and permeability.

Drill Stem Tests:

No. 1 940 feet to 956 feet (Coconino sandstone)
Open two hours, helium-nitrogen gas to surface immediately; flowed at the following rate:
30 minutes - 83 MCF/D
60 minutes - 105 MCF/D
90 minutes - 118 MCF/D
120 minutes - 118 MCF/D
This test would probably have been much better, but approximately 60 barrels of mud with about 18% lost circulation material was lost in the formation just prior to testing. Surface pressure, when gas analysis sample taken, was 50 psig.

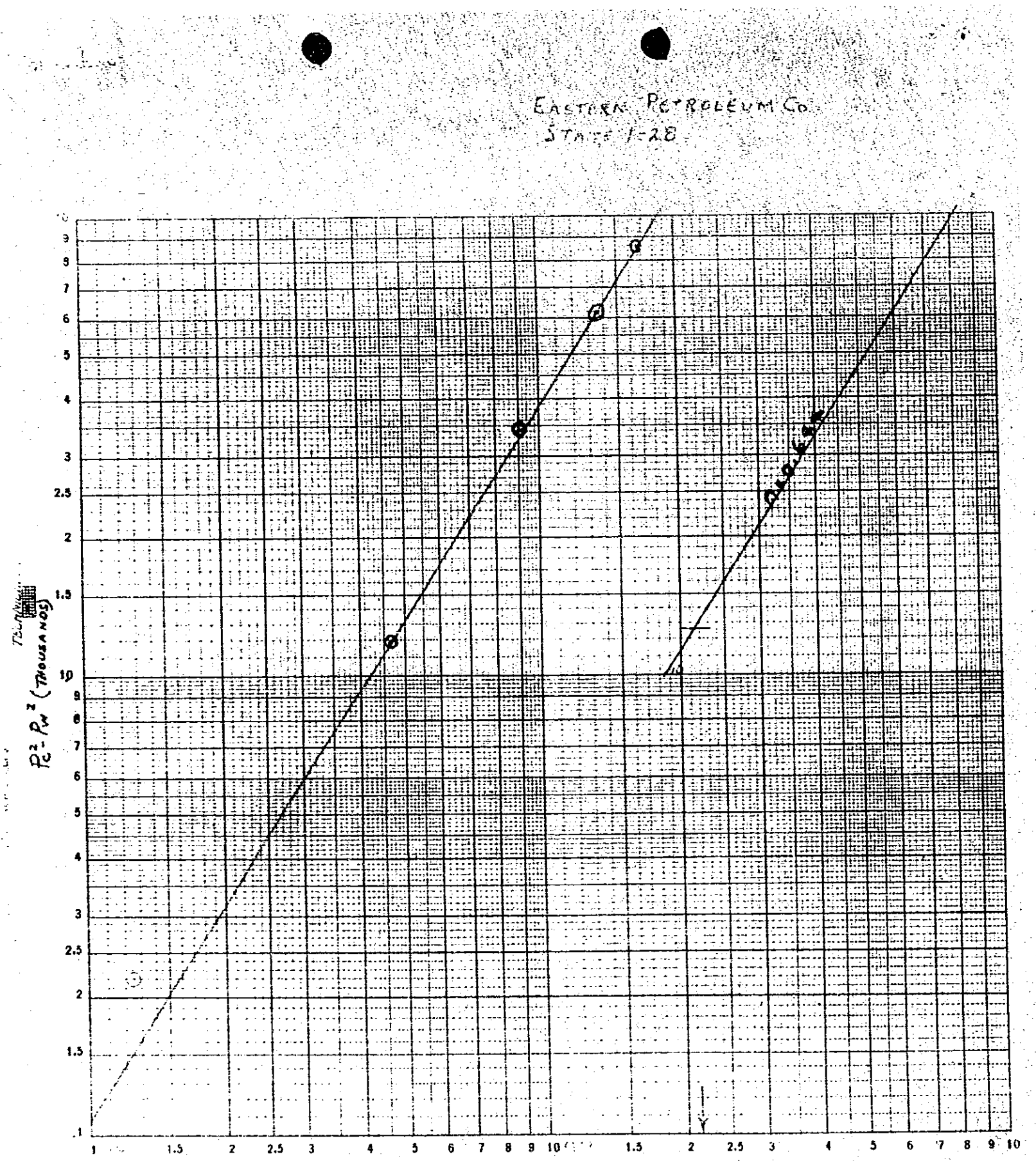
88 9

Eastern Petroleum No. 1-28 State (continued)

Recovered 35 feet of gas cut mud.
Shut-in time, initial and final: 60 minutes.
Initial flowing pressure: 14 psig
Final flowing pressure: 16 psig
Initial shut-in pressure: 59 psig
Final shut-in pressure: 89 psig
Initial hydrostatic pressure: 458 psig
Final hydrostatic pressure: 453 psig

88 6

EASTERN PETROLEUM CO.
STATE 1-28



88 1

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Pinta Formation Coconino Sandstone County Apache

Initial ______ Annual ______ Special X Date of Test Sept. 16, 1960

Company Eastern Petroleum Co. Lease State Well No. 1-28

Unit P Sec. 28 Twp. 20N Rge. 26E Purchaser ______

Casing 4½ Wt. 9½ I.D. ______ Set at 1051 Perf. 937 To 1000

Tubing ______ Wt. ______ I.D. ______ Set at ______ Perf. ______ To ______

Gas Pay: From ______ To ______ L ______ xG .920 -GL .967 Bar.Press. 12

Producing Thru: Casing ______ Tubing ______ Type Well ______
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: Sept. 12, 1960 Packer ______ Reservoir Temp. Est 75°

OBSERVED DATA

Tested Through (Prover) (~~Choke~~) (~~Meter~~) Type Taps ______

	Flow Data					Tubing Data		Casing Data		
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	Duration of Flow Hr.
SI	2"							100.0		
1.	2"	1/4						99.0	86	1
2.	2"	1/2						94.4	82	1
3.	2"	3/4						82.7	80	1
4.	2"	1						65.7	79	1
5.	2"	1 1/4						47.3	80	1

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	1.4030		111.0	.9759	.8076	1.010	123
2.	5.5233		106.4	.9795	.8076	"	465
3.	12.2023		94.7	.9813	.8076	"	916
4.	22.0562		77.7	.9822	.8076	"	1360
5.	35.6736		59.3	.9813	.8076	"	1676

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio ______ cf/bbl.
Gravity of Liquid Hydrocarbons ______ deg.
F_c 1.571 $(1-e^{-s})$ .068

Specific Gravity Separator Gas ______
Specific Gravity Flowing Fluid ______
P_c 112.0 P_c^2 12,544

No.	P_w P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$(F_cQ)^2$ $(1-e^{-s})$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	111.0	12,321	.193	.037	.003	12,324	.220		
2.	106.4	11,321	.731	.534	.036	11,357	1.187		
3.	94.7	8,968	1.439	2.071	.141	9,109	3.435		
4.	77.7	6,037	2.137	4.567	.311	6,348	6.196		
5.	59.3	3,516	2.633	6.933	.471	3,987	8.557		

Absolute Potential: 2,140 MCFPD; n 0.644
COMPANY Geolectric, Inc.
ADDRESS Box 842 103 N. Main / Aztec, New Mexico
AGENT and TITLE [signature] Agent
WITNESSED ______
COMPANY ______

REMARKS

RECEIVED
SEP 29 1960
STATE O & G
CONS. COMM.

INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w). MCF/da. @ 15.025 psia and 60° F.

P_c= 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia

P_w= Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia

P_t= Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia

P_f= Meter pressure, psia.

h_w= Differential meter pressure, inches water.

F_g= Gravity correction factor.

F_t= Flowing temperature correction factor.

F_{pv}= Supercompressability factor.

n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t.

STATE OF ARIZONA
OIL AND GAS CONSERVATION COMMISSION
PHOENIX, ARIZONA FORM O&G 53
Form Prescribed Under Oil and Gas Conservation Act of 1951

CAPACITY TEST REPORT
BACK PRESSURE TEST OF GAS WELL
(Critical Flow Prover or Orifice Meter)
OPEN FLOW POTENTIAL TEST

Date September 27, 19 61

Operator Eastern Petroleum Company Field Pinta

Lease State No. 1-28 Well Ac. None

Acres Under Well 640 Connection None

Reservoir Coconino County Apache

Sand Depth 935' Csg. @ 1051' Tubing@

Gr. of Gas 8.5% Helium Size Line and Meter or Prover

Is ~~Volume~~ Pressure Corrected to sand face? No

Closed Pres. LBS. Back Pressure Test

Orifice Size	Coeff 24 Hr.	Working Pressure psia	$(P_c^2 - P_W^2)$	If Orifice Meter used Lb. Q,MCFPD @ 15.025 psia	Volume
1/2"	5.5233	106.4	1,187,000	465	
3/4"	12.2023	94.7	3,435,000	916	
1"	22.0622	77.7	6,196,000	1,360	
1 1/4"	35.6738	59.3	8,557,000	1,676	

Volume - 24 Hour MCF.

Open Flow Test

Shut In Pres. 112 psia Time Shut In 4 days

Producing Through Casing

TIME	READING	LIQUID USED	SPRING GAUGE
15 Min.	See back pressure chart on file		
20 Min.			
25 Min.			
30 Min.			

Test Until Two Readings Check

OPEN FLOW CAPACITY 2,140 MCF per 24 Hrs.

REMARKS
Water - Oil - Etc.
(Important)

SIGNATURES
BOARD
CON.
CO. James M Dean
OTHER

(ACCOMPANY THIS REPORT WITH A BACK PRESSURE CHART)

RECEIVED SEP 28 1961 STATE O & G N.S. COMM.

5/12/58

88 10

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL ☒ DEEPEN ☐ PLUG BACK ☐

NAME OF COMPANY OR OPERATOR: EASTERN PETROLEUM COMPANY

DATE: JUNE 12, 1959

Address: 2520 1st. National Bank Bldg., City: Denver 2, State: Colorado

DESCRIPTION OF WELL AND LEASE

Name of lease	Well number	Elevation (ground)
State # 2089	4	furnish later

Well location: 660 NSL; 660 WEL; (give footage from section lines) Sec. 28, T. 20 N. R. 26 E. Section—township—range or block & survey G. & S. R.B. & M.

Field & reservoir (If wildcat, so state): Pinta Dome Area ~~Sx Mix xx SW x Nx xx xx Jx xx Ax xx xx x~~ County: Apache

Distance, in miles, and direction from nearest town or post office: 6 Miles SW from Navajo, Arizona

Nearest distance from proposed location to property or lease line:	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease:
660' feet	9 Miles approx. feet

Proposed depth:	Rotary or cable tools	Approx. date work will start
2500'	Rotary	June 20, 1959

Number of acres in lease:	Number of wells on lease, including this well, completed in or drilling to this reservoir:
1520	

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)

• Fill in Proposed Casing Program on other side

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Attorney-in-fact 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.

12 June 1959
Date

James D Leary
Signature

Permit Number: 88
Approval Date: June 18, 1959
Approved By: Obed M Lassen

4/15/59 OK Pmg 12 88

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, 19 59

10242

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.

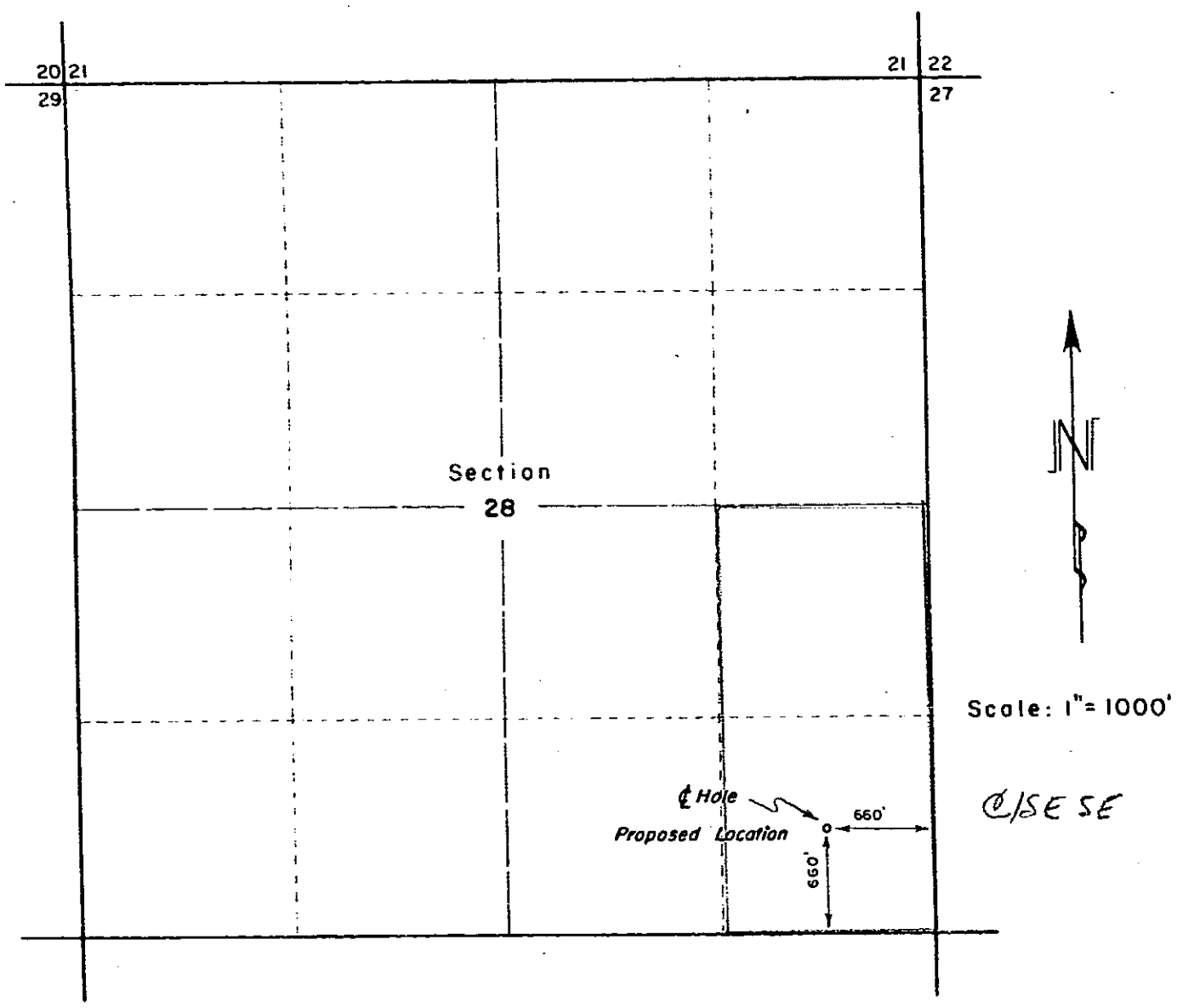
Designate scale to which plat or sketch is drawn. Also designate northerly direction on the sketch or plat.

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
8 5/8"	24#	H 40	Sur.	200'	200	200
Note: 4½" casing of 11# weight, grade J 55, will be run from the surface to total depth in the well in the event of production.						

Form No. P-1

CERTIFICATE OF SURVEY



WELL LOCATION: Eastern Petroleum Co. — State No. 1-28

Located 660 feet North of the South line and 660 feet West of the East line of Section 28.
Township 20 North Range 26 East Gila & Salt River Meridion
Apache County, Arizona
Existing ground elevation to be determined.

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

ELMER M. CLARK
Registered Land Surveyor
State of Colo. (No. 2279)

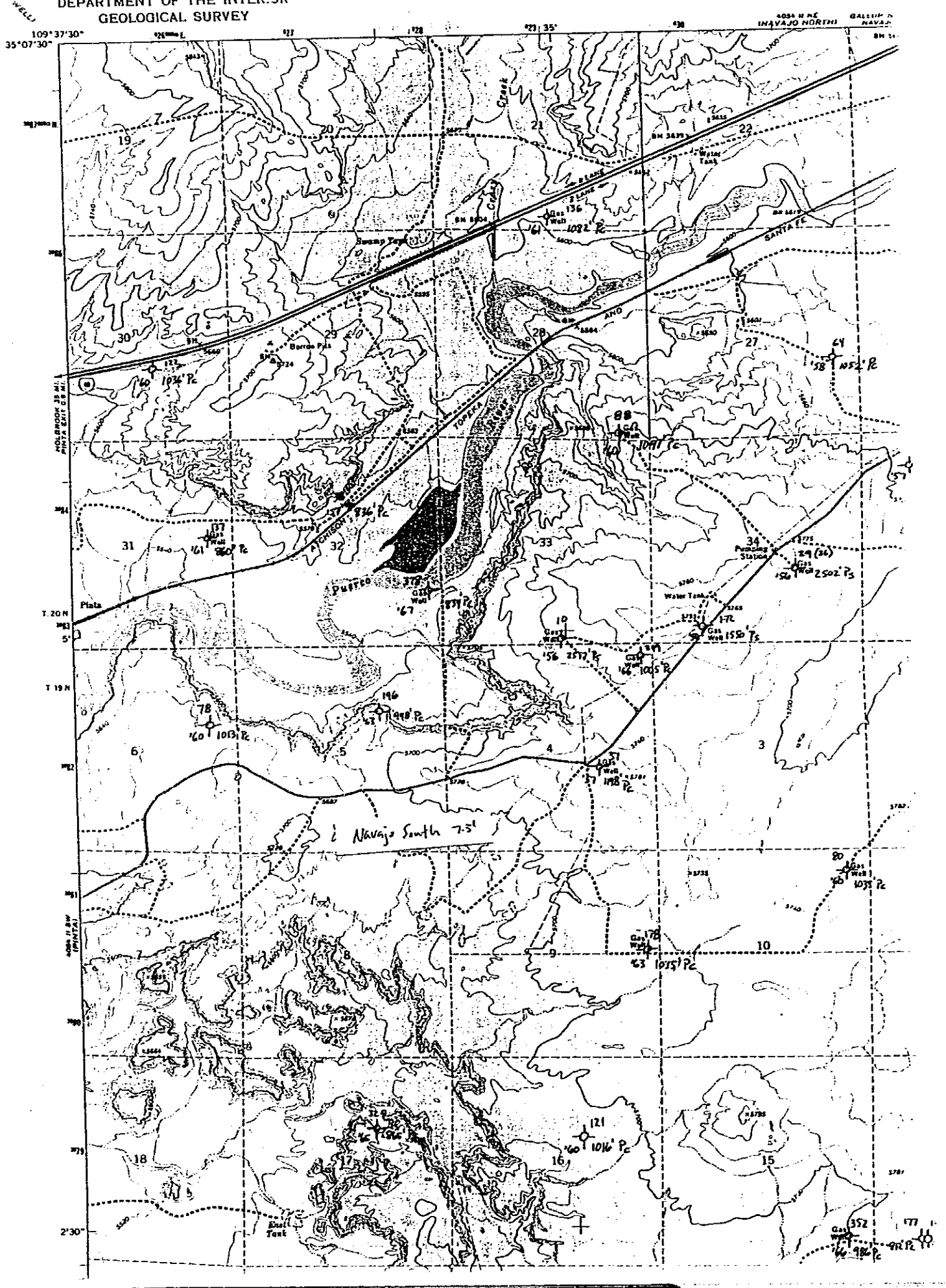
E.M. CLARK & ASSOCIATES
Durango, Colorado
JUNE 11, 1959

STATE LAND DEPARTMENT

JUN 12 11 24 AM 1959

10242

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



EASTERN PETR. 1-28 State

D.S.T. No. 1 940 to 956 Open 2 Hours
Good blow Immed. Gauged: 30 Minutes - 83 MCFG/D
60 " - 105 MCFG/D
90 " - 118 MCFG/D
120 " - 118 MCFG/D

Recovered: 35' Gas cut drlg mud.

IHP - 468#
FHP - 468#
ISIP (1 hr) - 93#
FSIP (1 hr) - 93#
IFP - 15#
FFP - 30#

Note: This test would probably have been much better but there was lost approximately 60 bbls of mud in the formation and the mud had approximately 20% lost circulation material in it.

38 feet of the Coconino was cored.

It had an average Porosity of 13.8%
Average Permoability of 87 Millidarcys
Average Water Satur. of 39.9 %

The log shows 78 feet of pay with these characteristics:

There is an additional 20 feet of pay with slightly higher water saturation.

Initial Closed In Time	60	Minutes	
Tool Open Flow Period	120	Minutes	
Final Closed In Time	60	Minutes	

Depth Top Gauge	Ft.	Blanked Off	
BT P.R.D. No		Hr. Clock	
Pressure Readings	Field	Office Corrected	
Initial Hydro Mud Pressure			
Initial Closed in Pres.			
Initial Flow Pres.			
Final Flow Pres.			
Final Closed in Pres.			
Final Hydro Mud Pressure			

Depth Center Gauge	Ft.	Blanked Off	
BT P.R.D. No		Hr. Clock	
Pressure Readings	Field	Office Corrected	
Initial Hydro Mud Pressure			
Initial Closed in Pres.			
Initial Flow Pres.			
Final Flow Pres.			
Final Closed in Pres.			
Final Hydro Mud Pressure			

Depth Bottom Gauge	Ft.	Blanked Off	
BT P.R.D. No		Hr. Clock	
Pressure Readings	Field	Office Corrected	
Initial Hydro Mud Pressure			
Initial Closed in Pres.			
Initial Flow Pres.			
Final Flow Pres.			
Final Closed in Pres.			
Final Hydro Mud Pressure			

Amount-Type of Cushion	

HOWCO No. 1294

Date 6-21-59

Ticket No. T-1890M1

HOWCO DISTRICT Farmington N.M.

Kind of Job Open Hole test

CONTRACTOR Apache Drlg.

HOLE & TOOL DATA

Elevation		Top Packer Depth	—
Total Depth	956'	Bottom Packer Depth	948'
~~Casing or~~ Hole Size	6 3/4"	Size & Type Wall Packer	5½"
~~Liner or~~ Rathole Size	6 3/4"	Size Bottom Choke	1"
Casing Perforations Top / Bottom		Size Surface Choke	1"
Interval Tested	948'-956'	ID & Length Air Chamber	none
Formation Tested		ID & Length Drill Collars	- 177'
Est. Gauge Depth Temp.	100 F°	Size Drill Pipe	2⅞"
MUD DATA Weight	9.7	Viscosity	53
All depths measured from	Rotary table	No...Folders Reproduced	

REMARKS: Opened tool with Good Blow & continued thru test.

TYPE JARS None

Recovered 35 Feet of mud

Recovered Feet of

Recovered Feet of

Recovered Feet of

Witnessed By

Tester D. Taylor

LOCATION

FIELD

COUNTY

STATE

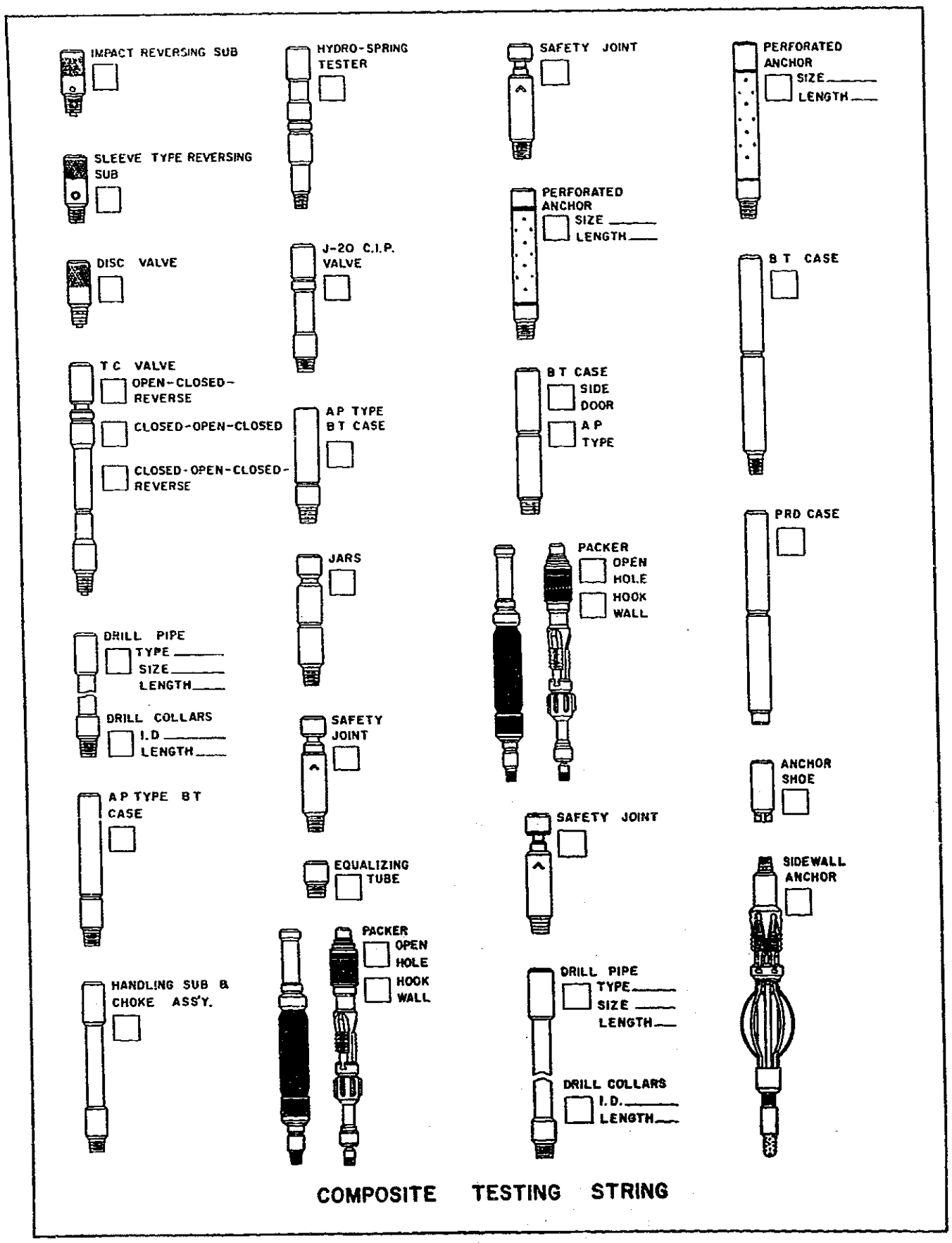
LEASE NAME Sale

WELL NO. 1-28

TEST NO. 1

LEASE OWNER Eastern P.C. Co.

OWNERS DISTRICT Gallup N.M.



COMPOSITE TESTING STRING

Bogg's copy

GEOLOGICAL COMPLETION REPORT
EASTERN PETROLEUM COMPANY
STATE NO. 1-28
Section 28, T20N, R26E
Apache County, Arizona
PN 88

By: Robert E. Lauth
Geological Consultant
Durango, Colorado
August 13, 1959

ROBERT E. LAUTH
Consulting Geologist

GEOLOGICAL COMPLETION REPORT
Eastern Petroleum Company
State No. 1-28
Section 28, T20N, R26E
Apache County, Arizona

WELL DATA

Rotary: Surface to total depth - mud drilled
Spud date: June 17, 1959
Date drilling completed: June 24, 1959
Initial production: Testing
Surface casing: 8 5/8" @ 48 feet with 50 sacks
Production casing: 4½" @ 1051.2 feet with 100 sacks
Contractor: Eastern Drilling Company
Leased rig of Apache Drilling Company, Denver, Colorado
Well location: SE - SE; 660' FSL & 660' FEL,
Section 28, Township 20 North, Range 26 East,
Apache County, Arizona
Elevation: 5696' ground
5703' rotary bushing
Total depth: 1091 feet
Plug back: 1051 feet

FORMATION TOPS

Formation	Depth		Elevation	Thickness
Chinle	Surface		+5703	761'
Chinle congl.	674	261	+5029	44'
Shinarump congl.	761		+4942	40'
Moenkopi	801	134	+4902	134'
Coconino	935		+4768	—

CORRELATION

Formation	Eastern Petr. 1-28 State SE 28-20N-26E	Eastern Petr. 1-2 State SW 2-19N-26E	Eastern Petr. 1-10 State NE 10-19N-26E
Chinle congl.	+5029	+5029	+5044
Coconino	+4768	+4767	+4768

Formation	Eastern Petr. 1-6 State NE 6-19N-26E	Kerr McGee No. 1 Reese SE 27-20N-26E	Kerr McGee No. 2 Fee NW 35-20N-26E
Chinle congl.	+4991	+4895	+5052
Coconino	+4713	+4649	+4780

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Formation	Kerr McGee No. 1 State SW 34-20N-26E	Kerr McGee No. 2 State SE 34-20N-26E	Kerr McGee No. 3 State SE 4-19N-26E
Chinle congl.	+5040	+5052	+5031
Coconino	+4773	+4782	+4766

Formation	Kerr McGee No. 4 State NE 32-20N-26E	Kerr McGee No. 1 Fee SE 33-20N-26E
Chinle congl.	+5006	+5061
Coconino	+4735	+4787

Note: On Kerr McGee No. 2 Fee in Sec 35-20N-26E there is a discrepancy in elevations. The one used here is 5732'KB. The other elevation given by Kerr-Mcgee is 5671'KB.

ROBERT E. LAUTH

DISCUSSION

The purpose of this report is to present geological information and basic data concerning the Eastern Petroleum Company, State No. 1-28 well located in the SE - SE of Section 28, Township 20 North, Range 26 East, Apache County, Arizona.

Under surface pipe the hole was drilled to a depth of 1091 feet with a 6 3/4 inch bit. A fresh water sand was noted from 262 to 283 feet. Considerable mud, approximately 400 barrels, was lost in the Coconino pay zone while coring and drilling.

Four and one-half inch casing was set and cemented at 1051.2 feet (ground level measurements) with 100 sacks of cement. Three cores and one drillstem test were taken in the Coconino sandstone. The entire pay zone was not cored due to excessive loss of mud while coring. Details of the cores and drillstem test will be given in the 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 under surface casing to a depth of 1075 feet. A micralog was run from 750 to 1073 feet.

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 50 to 1090 feet.

The lithology and correlation of the possible producing horizon (the Coconino sandstone) is discussed in the following paragraphs.

The Chinle conglomerate section is completely water wet and will not be discussed.

Coconino sandstone 935 to 1091' (penetrated 156 feet)

The Coconino sandstone is massive, buff in color, and exhibits cross-bedding in the cores. A transition zone exists which is composed of buff and tan colored fine grained sandstones of the Coconino streaked with dark red silty and micaceous shales of the Moenkopi formation. This zone is present from 911 to 935 feet.

By log analysis and core analysis there is a maximum of 98 feet of sandstone which will be productive of helium-nitrogen gas. Of this, twenty feet is in the gas-water transition zone.

The upper seventy-eight foot zone has the following characteristics which are averaged from core and electrical-microlog analysis.

935 to 1013 feet - 78 feet

Average Porosity	13.8%
Average Permeability	87 millidarcies
Average Water Saturation	39.9%

The lower twenty foot gas-water transition zone has essentially the same porosity; a little higher permeability and approximately 60% water saturation.

An analysis of the gas sample taken on the drillstem test in the upper 16 feet of this section and sent to the Bureau of Mines in Amarillo, Texas, had the following analysis:

Helium	8.6%
Nitrogen	89.9%
CO_2	0.8%
Methane	0.1%
Argon	0.6%
Total	100.0%

A commercial helium-nitrogen producer can be made in the upper 78 feet of Coconino sandstone. An initial potential in excess of five million cubic feet of gas per day would be reasonable to expect.

RECOMMENDED COMPLETION PROCEDURE

Four and one-half inch (OD), J-55, 9.5 lb and P-110, 15.10 lb used casing was set and cemented at 1051.2 feet with 100 sacks of cement. Only one joint 25.58 feet in length of P-110, 15.10 lb casing was used. It is the bottom joint and below the lowest possible pay zone. The remainder of the pipe is J-55, 9.5 lb. A float shoe was used. The top of the float is at 1051 feet. Centralizers were placed at 1026, 954, and 938.55 feet respectively. The plug was pumped down to the top of the float shoe with clear water.

The following procedure is recommended in completing the Coconino sandstone zone:

1) Perforate with 2 shots per foot the interval 937 to 1005 feet (68 feet).
2) Wash with mud acid sufficient to cover completely all perforations plus an additional amount to penetrate back into the mud invaded zone, approximately 160 gallons.
3) Load the hole with water to help push the acid back into the formation. Allow to set for 8 to 12 hours.
4) Swab water and acid back. Allow the well to blow dry.

From the characteristics of the electrical-induction and microlog, core analysis and drillstem test data, the completion should be a natural one.

Because 400 barrels of mud with cotton seed hulls and fibers were lost in the Coconino sandstone, much washing and cleaning with mud acid might be necessary.

CONCLUSIONS

This test is considered to have adequately tested all the formations penetrated.

The Coconino sandstone from 935 to 1033 feet contains helium-nitrogen gas.

It is recommended that the interval 937 to 1005 feet be perforated. The completion should be a natural one.

An initial potential in excess of 5 million cubic feet of gas per day is reasonable to expect.

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
August 13, 1959

CORE DESCRIPTION
Eastern Petroleum Company
State No. 1-28
Section 28, T20N, R26E
Apache County, Arizona
Elevation 5703' rotary bushing

Core No. 1 940 - 956 Cut 16 feet, recovered 16 feet.
Coring time (minutes per foot) 6, 3, 5, 5, 5, 3, 4, 6, 4, 5, 5, 3, 3, 4, 4, 4. Lost circulation, pulled core barrel.
2' Sandstone, red to tan, streaked with light green and red sandy shale.
1' Sandstone, tan to brown, fine grained, hard, subround to subangular streaked with thin green shale.
13' Sandstone, buff to brown, fine grained, hard, subround to subangular, good porosity and permeability becoming medium grained towards the base.
Entire core was bubbling gas.
Vertical fractures from 943 to 946.

Core No. 2 956 - 969 Cut 13 feet, recovered 13 feet.
Coring time (minutes per foot) 7, 7, 7, 4,3, 3, 5, 4, 4, 4, 4, 5, 3, 3. Core barrel jammed.
4' Sandstone, buff, fine to medium grained, subround, good porosity and permeability.
5' Sandstone, buff, fine to medium grained, subround, very much cross bedding.
4' Sandstone, ditto, some aeolian fluting in the sandstone.
Entire core bubbling gas, vertical fractures 956 - 960 and 968 - 969.

Core No. 3 969 - 978 Cut 9 feet, recovered 9 feet.
Coring time (minutes per foot) 4, 5, 4, 5, 6, 4, 4, 13, 14. Lost circulation, pulled core barrel.
4' Sandstone, buff, fine to medium grained, subround to subangular, firm, fair porosity and permeability; very slight oil stain.
5' Sandstone, buff, ditto, good porosity and permeability.

ROBERT E. LAUTH

DRILLSTEM TEST RECORD
Eastern Petroleum Company
State No. 1-28
Section 28, T20N, R26E
Apache County, Arizona
Elevation 5703' rotary bushing

DST No. 1 940 - 956 (Coconino sandstone)
Open two hours, helium-nitrogen gas to surface immediately; flowed at the following rate:

30 minutes - 83 MCF/D
60 minutes - 105 MCF/D
90 minutes - 118 MCF/D
120 minutes - 118 MCF/D

This test would probably have been much better, but approximately 60 barrels of mud with about 18% lost circulation material was lost in the formation just prior to testing. Surface pressure, when gas analysis sample taken, was 50 psig.
Recovered 35 feet of gas cut mud.
Shut-in time, initial and final: 60 minutes.
Initial flowing pressure: 14 psig.
Final flowing pressure: 16 psig.
Initial shut-in pressure: 59 psig.
Final shut-in pressure: 89 psig.
Initial hydrostatic pressure: 458 psig.
Final hydrostatic pressure: 453 psig.

ROBERT E. LAUTH

DRILLING TIME RECORD

Eastern Petroleum Company
State No. 1-28
Section 28, T20N, R26E
Apache County, Arizona
Elevation 5703' rotary bushing

From	To	Minutes Per Ten Feet
70	100	14-13-9
100	200	7- 6- 6-10- 5- 5- 6- 6- 6- 5
200	300	5- 8- 8- 5- 5-10- 9- 7- 9- 8
300	400	7- 5- 6- 7- 7- 9- 5- 8- 8- 7
400	500	8- 8-18-17-12-11-14-15-19-15
500	600	11-14-14-16-22-17-18-14-13-15
600	700	18-14-12-14-11-15-16-20-20-12
700	800	7-14-14-11-16-16-17-17-21-23
800	900	22-22-20-30-20-24-24-27-34-36
900	940	29-36-27-33
940	956	See Core No. 1
956	969	See Core No. 2
969	978	See Core No. 3
980	1000	108-87
1000	1090	70-62-83-90-53-96-69-69-86

ROBERT E. LAUTH

SAMPLE DESCRIPTION

Eastern Petroleum Company
State No. 1-28
Section 28, T23N, R26E
Apache County, Arizona.
Elevation 5703' rotary bushing

Samples start at 50' in the Chinle formation. The "A" sandstone bed (mapping horizon) is on the surface.

50 - 60	80 sandstone clear, fine to coarse grained, subangular. 20 shale red, pink.
60 - 70	80 sandstone ditto, also green, very fine grained, 20 shale ditto.
70 - 80	60 sandstone, ditto. 40 shale pink, in part finely arenaceous.
80 - 90	30 sandstone ditto. 70 shale as above.
90 - 100	10sandstone ditto. 90 shale as above, some very light green - bentonitic.
100 - 110	20 sandstone clear, medium to coarse grained, angular to subangular. 80 shale pink, in part sandy.
110 - 120	10 sandstone ditto. 90 shale pink to red.
120 - 130	Trace of sandstone. 100 shale red to pink, in part finely arenaceous.
130 - 140	60 sandstone white, very fine grained, salt and pepper in appearance, cemented. 40 shale as above.
140 - 150	90 sandstone ditto. 10 shale ditto.
150 - 160	80 sandstone ditto. 20 shale ditto, some light green bentonitic.
160 - 170	30 sandstone ditto. 70 shale pink to light purple, in part finely arenaceous.
170 - 180	20 sandstone as above. 80 shale ditto, occasional round coarse pebbles in shale.
180 - 190	Trace of sandstone. 100 shale red to gray, pink, in part very sandy.

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190 - 200	Trace of light green, very fine grained sandstone. 100 shale as above.
200 - 210	Trace of white crystalline limestone. 100 shale lavender with green blebs and mudstones.
210 - 220	Trace of sandstone. 100 shale ditto, some light green, finely arenaceous.
220 - 230	20 sandstone clear, medium grained, loose, angular to subangular. 80 shale ditto. Trace of tan crystalline limestone.
230 - 240	30 sandstone ditto. 10 limestone ditto. 60 shale ditto.
240 - 250	20 sandstone ditto. Trace of limestone. 80 shale predominately light green.
250 - 260	10 sandstone clear, fine grained, angular to subangular. 10 limestone tan crystalline. 80 shale predominately light green, also red and gray.
260 - 270	90 sandstone clear to rust colored, fine to medium grained, subround to angular, some brown chert. 10 shale ditto.
270 - 280	100 sandstone ditto. Trace of green shale.
280 - 290	100 sandstone ditto. Trace of green shale.
290 - 300	90 sandstone ditto. 10 shale pink and light green.
300 - 310	80 sandstone ditto. 20 shale pink and light green.
310 - 320	70 sandstone ditto, some brown chert. 30 shale ditto.
320 - 330	30 sandstone ditto. 70 shale light green, pink, tan, and gray, in part sandy.
330 - 340	20 sandstone ditto. 80 shale ditto, some lavender.
340 - 350	20 sandstone ditto. 80 shale ditto, predominately light green.
350 - 360	10 sandstone some red chert. 90 shale light green and lavender.
360 - 370	Trace of sandstone. 100 shale as above.
370 - 380	Trace of sandstone. 100 shale as above.
380 - 390	Trace of sandstone. 100 shale as above.
390-400	10 sandstone clear, fine grained, subround to subangular, loose. 90 shale light green and lavender.
400 - 410	100 shale very pale green to white.
410 - 420	100 shale ditto.

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420 - 430	100 sandstone clear to tan, fine to medium grained, subround to angular, loose.
430 - 440	100 sandstone ditto. Trace of green and lavender shale.
440 - 450	50 sandstone ditto, some brown chert. 50 shale light green, gray, and lavender.
450 - 460	30 sandstone ditto, some red chert. 70 shale ditto, predominatly purple.
460 - 470	10 sandstone ditto. 90 shale ditto, predominately brown.
470 - 480	80 sandstone clear to tan, very fine to fine grained, round to angular. 20 shale ditto.
480 - 490	50 sandstone ditto. 50 shale ditto.
490 - 500	90 sandstone ditto, becoming coarse grained. 10 shale ditto.
500 - 510	100 sandstone clear to reddish, fine to medium grained, angular to subround, loose. Trace of green shale.
510 - 520	80 sandstone ditto, some red chert. 20 shale light green.
520 - 530	70 sandstone ditto, becoming predominately medium grained. 30 shale ditto, gray and red.
530 - 540	20 sandstone ditto. 80 shale ditto, and gray.
540 - 550	20 sandstone ditto. 80 shale ditto.
550 - 560	10 sandstone ditto. 90 shale light green, gray, and brown.
560 - 570	20 sandstone ditto. Trace of red crystalline limestone. 80 shale ditto.
570 - 580	10 sandstone ditto. 90 shale ditto, trace of yellow shale.
580 - 590	Trace of sandstone, some red chert. 100 shale ditto.
590 - 600	10 sandstone ditto. 90 shale predominately brown micaceous and red.
600 - 610	Trace of sandstone. 100 shale predominately brown, some green, finely micaceous.
610 - 620	Trace of sandstone, some brown chert. 100 shale predominately light green, some gray, brown, and red.
620 - 630	A few coarse, round, loose grains of sandstone. 100 shale ditto.
630 - 640	Trace of clear, fine grained, loose sandstone. 100 shale ditto, light green and brown.

ROBERT E. LAUTH

640 - 650	10 sandstone as above, few coarse clear grains. 90 shale ditto.
650 - 660	30 sandstone clear to red, very fine grained to coarse grained. 70 shale light green and lavender. Trace of red chert.
660 - 670	Trace of sandstone clear, very fine grained, loose. 100 shale light green, gray, lavender, and red.
670 - 680	10 sandstone ditto, some coarse grains. 90 shale ditto, poor sample, lot of caving.
680 - 690	50 sandstone clear to red to tan, fine to coarse grained, angular to subround. 50 shale ditto.
690 - 700	30 sandstone ditto. 70 shale light green with very much fine grains of sandstone, also mudstone conglomerate.
700 - 710	100 sandstone clear, coarse grained, angular, loose. Trace of limestone and chert (conglomerate).
710 - 720	90 sandstone reddish, fine to medium grained, loose, occasional coarse pebble. 10 shale red micaceous.
720 - 730	70 sandstone ditto. 30 shale ditto, also green. Trace of gray crystalline limestone.
730 - 740	Trace of sandstone ditto. 100 shale ditto, predominately red, finely arenaceous. Trace of yellow shale.
740 - 750	10 sandstone ditto. 90 shale brick red, finely arenaceous.
750 - 760	Trace of sandstone. 100 shale light green and gray. Trace of yellow shale, some red.
760 - 770	100 shale ditto. Trace of brown chert.
770 - 780	30 sandstone clear to red, coarse grained, pebbles. 70 shale ditto. Trace of calcite.
780 - 790	60 sandstone coarse - conglomerate. 40 shale gray, red, micaceous.
790 - 800	20 sandstone ditto. 80 shale brick to chocolate red, finely micaceous and sandy.
800 - 810	10 sandstone white, fine to coarse grained, well cemented. 90 shale as above.
810 - 820	30 sandstone as above, occasional pebble. 70 shale chocolate brown, some gray.
820 - 830	Trace of sandstone. 100 shale chocolate brown, also gray, micaceous, trace of limestone.

(Chinle 761' + more)

674 Top Chinle congl. (56')

761 Top Shinarump (40')

801 Top Moenkopi

ROBERT E. LAUTH

830 - 840	Trace of sandstone. 100 shale ditto.
840 - 850	100 shale ditto.
850 - 860	10 sandstone green, fine grained, cemented with calcareous cement. 90 shale ditto.
860 - 870	Trace of sandstone ditto. 100 shale chocolate red.
870 - 880	30 sandstone red, very fine grained, shaly and silty, occasional pebble. 70 shale ditto, some gray and green.
880 - 890	40 sandstone ditto, in part micaceous. 60 shale ditto.
890 - 900	10 sandstone ditto, some clear, fine grained, and loose. 90 shale ditto. Trace of yellow shale.
900 - 905	100 shale chocolate brown and gray. Trace of red chert.
905 - 910	10 sandstone white, medium grained with much clay cement. Trace of white, fine grained, micaceous. 90 shale ditto.
910 - 915	10 sandstone ditto. 10 limestone white crystalline. 80 shale as above.
915 - 920	10 sandstone ditto. Trace of root beer, fine grained, and hard sandstone. 90 shale red and gray, in part very sandy.
920 - 925	70 sandstone tan to root beer color, very fine grained to hard and tight. 30 shale varicolored.
925 - 930	70 sandstone ditto. 30 shale red to chocolate to micaceous.
930 - 935	10 sandstone ditto, red. 90 shale red, micaceous, and sandy.
935 - 940	30 sandstone ditto, tan. 70 shale red, micaceous, and sandy.
15 min. cic. sample @ 940	30 sandstone fawn colored to buff, fine grained, and well cemented. 70 shale red, micaceous, and sandy, sandstone is probably in streaks in shale.
940 - 956	See Core No. 1.
956 - 969	See Core No. 2.
969 - 978	See Core No. 3.
978 - 985	100 sandstone buff, fine to medium grained, and firm. Lot of cavings.
985 - 990	100 sandstone ditto. Lot of cavings.
990 - 995	100 sandstone ditto, becoming firmer and compact. Lots of cavings.

root beer sand.

935 Top Cowden

ROBERT E. LAUTH

995 - 1000	100 sandstone ditto. Lot of cavings.
1000 - 1005	Trace of sandstone. 100 green chloritic material.
1005 - 1010	20 sandstone. 30 green chloritic material. 50 shale, cavings.
1010 - 1015	80 sandstone buff, fine to medium grained, good porosity and permeability. 20 green chloritic material (basalt?).
1015 - 1020	100 sandstone ditto.
1020 - 1025	100 sandstone ditto, firm, fair porosity and permeability.
1025 - 1030	20 sandstone very fine grained to reground. 80 shale light pale green (cavings).
1030 - 1035	30 sandstone ditto, some buff, fine to medium grained, subround to angular with iron stains. 70 shale as above (cavings).
1035 - 1040	100 sandstone ditto, much cavings.
1040 - 1045	100 sandstone buff, fine to medium grained, subround to subangular, looks wet. Much cavings.
1045 - 1050	100 sandstone ditto, looks wet, much cavings.
1050 - 1055	100 sandstone ditto, looks wet, much cavings.
1055 - 1060	100 sandstone ditto, looks wet, slight salty taste, much cavings.
1060 - 1065	100 sandstone ditto, looks wet, much cavings.
1065 - 1070	100 sandstone ditto, in part iron stained, looks wet, still much shale cavings.
1070 - 1075	100 sandstone ditto, much iron stain, looks wet, and tastes salty, much cavings.
1075 - 1080	100 sandstone ditto, much iron stain, looks wet, and tastes salty, much cavings.
1080 - 1085	100 sandstone ditto, much iron stain, looks wet, tastes salty, and much cavings.
1085 - 1090	100 sandstone ditto, still much cavings, some red shale.
Total depth	1091'

ROBERT E. LAUTH

State of Arizona
Arizona Geological Survey
845 North Park Avenue, #100
Tucson, Arizona 85719
(602) 882-4795

Fife Symington
Governor

Larry D. Fellows
Director and State Geologist

October 28, 1992

Mr. Merle Bohlander
1600 Turtle Creek
Pampa, Texas 79065

Dear Merle:

Enclosed is the information you requested, the last few years of production and the plugging records for the wells in the Pinta Dome Field. I have also enclosed a summary of surface shut-in pressures for the Pinta Dome Field.

Sincerely,

Steven L. Rauzi
Oil & Gas Program Administrator

Enclosures

OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

8686 NORTH CENTRAL, SUITE 106
PHOENIX, ARIZONA 85020

PHONE: (602) 271-5161

March 7, 1977

Mr. C. J. Breeden
Kerr-McGee Corporation
P.O. Box 250
Amarillo, Texas 79105

Re: Form 9, Application to Abandon and Plug

Dear Mr. Breeden:

Attached are your approved copies of Form 9, Application to Abandon and Plug ten wells in the Pinta Dome Field, Apache County, Arizona.

Please advise me what date you plan to commence plugging operations.

Very truly yours,

William E. Allen
Director
Enforcement Section

WEA/vb
Enc.

88

KERR-McGEE CORPORATION
626 AMARILLO PETROLEUM BUILDING
P. O. BOX 250 • AMARILLO, TEXAS 79105

PHONE
806 376-7256

February 28, 1977

RECEIVED
MAR 3 1977
O & G CONS. COMM.

Arizona Oil and Gas Conservation Commission
8686 North Central Avenue, Suite 106
Phoenix, Arizona 85020

RE: Form 9
Application to Abandon
and Plug

Gentlemen:

Attached are two copies each of Form 9, Application to Abandon and Plug, for 10 wells in the Pinta Dome Field, Apache County, Arizona. Plugging will commence when your approval is obtained and with availability of equipment to perform this work. If there are any questions, please advise.

Sincerely,

KERR-McGEE CORPORATION

C. J. Breeden
District Manager
Southwest District - North America

CJB/srm

Attachments

88

OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013

PHONE: (602) 271-5161

September 18, 1973

Mr. Robert Fullop
Eastern Petroleum Company
P. O. Box 226
Farmington, New Mexico 87401

Dear Mr. Fullop:

Will you please supply this Commission with any information that you might have regarding the recoverable reserves in the Navajo Springs Field?

This information will be considered confidential if you so desire.

Thank you for your cooperation.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

RECEIVED
FEB 01 1971
O & G CONS. COMM.

RECEIVED
1971
O & G CONS. COMM.

January 28, 1971

Mr. F. C. Ryan
State Land Department
1624 West Adams
Phoenix, Arizona 85007

Re: U.S.F.G. Bond 13374760
Amount - $4000.00

Dear Mr. Ryan:

I know we've had a few discussions regarding release of this bond which has been in effect for 10 years or so. It was taken out to cover the drilling of a well at that time. For some years now we have had a $25,000 blanket bond #13398363 in effect. I can think of no useful purpose this smaller bond can perform. The well in question was plugged and the location cleaned up. Surely the blanket bond is large enough to satisfy state requirements.

It's a bit hazy with me now but I believe the Land Department's attorney is the one who refused to authorize release.

Anything you may do in this regard will be appreciated.

Yours very truly,

EASTERN PETROLEUM COMPANY

J. N. Edwards

JNE:sjn

cc: Mr. John Bannister
Oil & Gas Conservation Comm.
4515 North 7th Avenue
Phoenix, Arizona 85013

X- Chloro
X- Limber

10
39
36
X 349
378
80
88
81
X Kerr-McGee State #1 (No Permit)

June 12, 1969

Mr. Otto C. Barton
Kerr-McGee Corporation
P. O. Box K
Sunray, Texas 79086

Re: Pinta Dome Unit Wells

Dear Mr. Barton:

This letter constitutes permission from this Commission to suspend the annual testing for the captioned wells as provided by Rule 401 during June, 1969.

Sincerely,

John Bannister
Executive Secretary

JAL:jf

88

KERR-McGEE

POST OFFICE BOX [illegible] • MURRAY, TEXAS [illegible]

June 9, 1969

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

Attention: Mr. James A. Lambert

Dear Sir:

In accordance with my telephone conversation with you and Mr. John Bannister today, we are hereby requesting the commissions approval to defer the annual testing requirements set forth in Rule 401 on all helium gas wells in the Pinta Dome Unit, Apache County, Arizona.

This field is a unit operation. Only six wells, Eastern State #1-2 and #1-28, Kerr-McGee State #1, #2, #3A, and Fee #1 have been produced, the other three wells, Eastern State 1-10, Kerr-McGee State #4A and Kerr-McGee Fee #2 have been shut-in since unit was formed on January 1, 1968.

Shut in pressures in this field are very low with none exceeding 60 p.s.i.g. Plant operation makes gas flow very erratic, rate of flow and line pressures are very seldom steady for over a few hours at one time. Also when plant is in full operation, line pressures and well operating pressures are never more than 1 to 5# less than well shut in pressures. These conditions make testing procedures as outlined in the testing manual impossible. The only way potential tests could be accomplished would be by venting gas to air which would constitute a waste of valuable natural resources.

We believe that a representative test of the wells in this field is almost impossible and that no useful purpose ca be accomplished by flow tests of wells in this unit operation. Therefore we are making this request that annual tests on all wells in Pinta Dome unit be again deferred.

Yours very truly,

KERR-McGEE CORPORATION

Otto C. Barton
Division Superintendent
Oil and Gas Production

RECEIVED
JUN 11 1969
STATE O & G COMM.

OCB/ds

88

X- Lambert
X- Chron

OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

ROOM 202

1624 WEST ADAMS

Phoenix, Arizona 85007

PHONE: 271-5161

May 22, 1969

Mr. Otto C. Barton
Kerr-McGee Corporation
P. O. Box K
Sunray, Texas 79086

Re:

Kerr-McGee Fee #1	Permit #10
Kerr-McGee Fee #2	Permit #39
Kerr-McGee State #1 (Sec. 34 of 20826)	No Permit
Kerr-McGee State #2	Permit #36
Kerr-McGee State #3A	Permit #349
Kerr-McGee State #4A	Permit #378
Eastern State #1-10	Permit #80
Eastern State #1-28	Permit #88
Eastern State #1-2	Permit #81 X

X

Dear Mr. Barton:

In accordance with Rule 401 the Oil and Gas Conservation Commission, State of Arizona, has adopted procedures for the annual testing for all gas and/or helium wells.

The Commission's procedure is based upon and must be used in conjunction with the Manual of Back-pressure Testing of Gas Wells as issued by Interstate Oil Compact Commission, P. O. Box 53127, Oklahoma City, Oklahoma 73105.

The Commission has prepared, in addition, a supplement to the IOCC manual inasmuch as that manual is based upon a pressure base other than the 15.025 required by the State of Arizona. The supplement to the IOCC manual has made all necessary corrections to the IOCC manual to reflect the 15.025 pressure base.

88

The tests as required by Rule 401 shall be conducted during the month of June each year and reported in duplicate by July 10th of each year. Forms 18 and 20 will be used for this purpose.

Yours truly,

James A. Lambert
Administrative Assistant

JB:jf

Enc.

EASTERN PETROLEUM CO.
EASTERN DRILLING, INC.

TELEPHONE 38-24104 · P. O. BOX 291 · CARMI, ILLINOIS

September 25, 1968

Mr. James A. Lambert
Administrative Assistant
Oil & Gas Conservation Comm.
1624 West Adams, Room 202
Phoenix, Arizona 85007

Re: State #1-28
State #1-2

Dear Mr. Lambert:

I realize you are relatively new in your present position, but somewhere in your office is a copy of Plan of Unitization of Pinta Dome Coconino Sand Gas Pool approved by the Commission. Said Plan, among other things, provides that Kerr-McGee Corporation shall be the Operator and shall be charged with making timely reports to your office. Therefore, our reporting obligation ceased at that time.

However, I am late with the Navajo Springs Unit report. Looks like we're even.

Cordially,

EASTERN PETROLEUM COMPANY

J. N. Edwards

JNE:sjn

Enc.

RECEIVED
SEP 27 1968
STATE O & G
CONS. COMM.

September 23, 1968

Mr. Henry Fullup
Eastern Petroleum Company
Box 91
Carmi, Illinois

Re: Eastern Petrol Co. State #1-28
T20N, R26E, G & SRM
Sec. 28: SE/4 SE/4
Apache County, Arizona
Permit #88

Eastern Petrol Co. State 1-2
T19N, R26E, G & SRM
Sec. 2: NE/4 SW/4
Apache County, Arizona
Permit #81

Dear Mr. Fullup:

The rules and regulations of the Oil and Gas Conservation Commission of the State of Arizona state that a Monthly Producer's Report, form #16, shall be filed on each producing lease within the State for each calendar month. Our records indicate that invariably Eastern Petroleum Company must be reminded that their report has not been received. We expect to receive the report on or before the 15th of the subsequent month. All of the other companies reporting production are able to comply with this request. Please advise this office why your company has a problem in furnishing this report.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jf

98

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

CANCELLED

DATE ltr 11-22-65

OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

ROOM 202

1624 WEST ADAMS

Phoenix, Arizona 85007

PHONE: 271-5161

June 6, 1968

Kerr-McGee Corporation
P.O. Box K
Sunray, Texas 79086

Attention: Mr. Otto C. Barton

Re: Kerr-McGee #1 State
SW SW 34-20N-26E, Apache County, Permit

Kerr-McGee #2 State
NW SE 34-20N-26E, Apache County, Permit 36

Eastern Petroleum #1-2 State
NE SW 2-19N-26E, Apache County, Permit 81

Eastern Petroleum #1-28 State
SE SE 28-20N-26E, Apache County, Permit 88

Kerr-McGee #1 Fee
SW SE 33-20N-26E, Apache County, Permit 10

Eastern Petroleum #1-10 State
NE NE 10-19N-26E, Apache County, Permit 80

Kerr-McGee #2 Fee
NW NW 35-20N-26E, Apache County, Permit 39

Kerr-McGee #3A State
NE NE 4-19N-26E, Apache County, Permit 349

Kerr-McGee #4A State
SW NE 32-20N-26E, Apache County, Permit 378

Gentlemen:

In reply to your letter of May 22, 1968, this letter constitutes permission from this Commission to suspend until further notice the annual capacity testing of captioned helium gas wells comprising the Pinta Dome Coconino Sand Gas Pool Unit.

Very truly yours,

John Bannister
Executive Secretary

mr

KERR-McGEE

POST OFFICE BOX "K" • SUNRAY, TEXAS 79086

May 22, 1968

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

Attention: Mr. John Bannister
Executive Secretary

Gentlemen:

We are hereby requesting the Commissions approval to defer the annual testing requirements set forth in the rule 401 on all Helium Gas Wells in the Pinta Dome Unit, Apache County, Arizona.

This field is a unit operation and only those wells needed to supply the plants demand are produced. At present only four wells, Eastern State #1-28, Eastern State #1-2, KM State #1 and KM State #2 are being produced. The other five wells in the unit, Eastern State #1-10, KM State #3A and 4A and KM Fee #1 and #2 have been shut in since the unit was formed on January 1, 1968.

As our sales and production rates vary greatly over short periods of time and well pressures are very low, it is almont impossible to follow testing proceedures as outlined in the testing manual except by venting gas to the air while testing.

The venting of gas to air constitutes a waste of valuable natural resources. We feel that no useful purpose can be served by annual potential tests of wells in a unit opertion of this kind. Therefore we are making this request that annual tests be deferred on all wells in the Pinta Dome Unit. This includes both the four producing wells and five temporarily shut in wells listed above.

Granted
5-29-68
JB

RECEIVED
MAY 23 1968
STATE O & G CONS. COMM.

Yours very truly,
Kerr-McGee Corporation

Otto C. Barton
Division Superintendent of Oil & Gas Prod.
Box K-Sunray, Texas-79086

Our File No. 88

May 12, 1964

Eastern Petroleum Company
Box 291
Carmi, Illinois

Attention: Mr. J. N. Edwards

Re: Eastern State #1-28
Section 28 - T20N - R26E, Apache County

Gentlemen:

Enclosed for your files is an executed copy, with approval date of May 11, 1964, of Operator's Certificate of Compliance and Authorization to Transport Oil or Gas From Lease in connection with captioned well.

Very truly yours,

John Bannister
Executive Secretary

JB/mkc
Encl.

88

DENVER OFFICE 2520 FIRST NATIONAL BANK BUILDING · MAIN 3-5259

EASTERN PETROLEUM CO.
EASTERN DRILLING, INC.

TELEPHONE 38 34104 · P. O. BOX 291 · CARMI, ILLINOIS

May 6, 1964

Mr. John Petty, Petroleum Geologist
Oil and Gas Conservation Commission
Room 202
1624 West Adams St.
Phoenix, Arizona

Dear Mr. Petty:

Certificate of Compliance for the three Pinta Dome wells are enclosed.

No Certificates are enclosed for Navajo Springs as no gas is being transported at this time.

Yours very truly,

EASTERN PETROLEUM COMPANY

J. E. Edwards

JNE:mf

Encls.

Files Nos. 80
81
88 ✓

O & G COMM

88

December 30, 1959

FOR INFORMATION ONLY:

Cecil Brown, Accountant, Louisville, Illinois, who is employed by Paul Tipton, Carmi, Illinois, was inquiring about Eastern's and Mr. Fullop's plans and activities here, and I told him I was not aware of any.

I understand Tipton was formerly associated with Eastern Petroleum, and is now in competition with them.

D. A. JEROME,
EXECUTIVE SECRETARY

DAJ:mmr

DOMESTIC SERVICE

Check the class of service desired; otherwise this message will be sent as a full rate telegram

FULL RATE TELEGRAM		SERIAL	
DAY LETTER		NIGHT LETTER	

WESTERN UNION

W. P. MARSHALL, PRESIDENT

1206

INTERNATIONAL SERVICE

Check the class of service desired; otherwise this message will be sent at the full rate

FULL RATE		DEFERRED	
CODE		NIGHT LETTER	

NO. WDS.-CL. OF SVC.	PD. OR COLL.	CASH NO.	CHARGE TO THE ACCOUNT OF	TIME FILED

Send the following message, subject to the terms on back hereof, which are hereby agreed to

December 8, 1959 -
9:40 A. M.

Mr. Henry Fullop
EASTERN PETROLEUM CO.
P. O. Box 291
Carmi, Illinois

MEETING WILL BE AT 7:30 A. M., TUESDAY, DECEMBER 15, AT THE WESTWARD HO HOTEL, PHOENIX.

D. A. JEROME,
EXECUTIVE SECRETARY

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION
3500 N. CENTRAL AVE., SUITE 312
PHOENIX, ARIZONA

WIRE TELEPHONED TO WESTERN UNION - AL 2-3411 - M. R.

88

...OF SERVICE
...a fast message
...less its deferred character is indicated by the proper symbol.

WESTERN UNION
TELEGRAM

W. P. MARSHALL, PRESIDENT

1201

SYMBOLS
DL=Day Letter
NL=Night Letter
LT=International Letter Telegram

The filing time shown in the date line on domestic telegrams is STANDARD TIME at point of origin. Time of receipt is STANDARD TIME at point of destination

NBC081 PD=CARMI ILL 1 450PMC=

D A HEROME=

2017 COMMODORE HOTEL=

1959 DEC 1 PM 6 39

MEETING ON DECEMBER 15TH QUITE SATISFACTORY=

HENRY FULLOP=

88

July 1, 1959

Eastern Petroleum Company
P. O. Box 291
Carmi, Illinois

Attention: Mr. Henry Fullop

Dear Mr. Fullop:

Thank you for your letter of transmittal of June 26, 1959, with which you enclosed powers of attorney for Mr. Geary in regard to your #1-28 and for Mr. Dean in regard to future drilling permits and instruments connected thereto, together with an Organization Report bearing the date of June 26th.

Your prompt cooperation is appreciated. If we could be of help in the future, please call on us.

Very truly yours,

STATE LAND COMMISSIONER

By: Frederick C. Ryan,
Supervisor,
Oil & Gas Conservation

FCR:mb
cc - James W. Dean
Denver, Colorado

88

EASTERN PETROLEUM CO.
EASTERN DRILLING, INC.

P. O. BOX 291 · CARMI, ILLINOIS

June 26, 1959

Mr. Frederick C. Ryan, Supervisor
Oil and Gas Conservation
State Land Department
Phoenix, Arizona

Dear Mr. Ryan:

Enclosed you will find three instruments:

(1) Power of Attorney for James E. Geary, relative to drilling of the State #1-28, SE SE Section 28-20N-26E, Apache County.

(2) Power of Attorney for James W. Dean to secure additional drilling permits and to execute any and all instruments relating thereto. Mr. Dean is currently acting in the capacity of geologist and general manager of our western division.

(3) One copy of Organization Report.

Trusting you will find these instruments in order, I remain

Sincerely yours,

EASTERN PETROLEUM COMPANY

Henry Fullop

Henry Fullop

RECEIVED
JUN 29 1959
STATE LAND DEPT.

HF:bja

Enclosure

cc: James E. Geary
James W. Dean

10840

88

June 18, 1959

Eastern Petroleum Company
2520 1st National Bank Bldg.,
Denver 2, Colorado

Gentlemen: Re: Eastern Petroleum Co.-State #89-4

We are transmitting herewith your copy of Application for Permit to Drill, etc., in Section 28, Township 20 North, Range 26 East, Apache County, Arizona.

This approved application constitutes your drilling permit No. 88 and is for your records.

We are also inclosing a receipt in the amount of $25.00 covering permit fee.

As soon as the elevation on this well has been determined please notify this office.

Thank you for your cooperation in the matter, and if we may be of further assistance, please let us know.

Very truly yours,

STATE LAND COMMISSIONER

By: Frederick C. Ryan,
Supervisor,
Oil and Gas Conservation

FCR:mb
Encls.

88

EASTERN PETROLEUM CO.
EASTERN DRILLING, INC.

P. O. BOX 291 · CARMI, ILLINOIS

June 13, 1959

Mr. Frederick Ryan
Asst. to Land Commissioner
Phoenix, Arizona

Dear Mr. Ryan:

Mr. Paul Fullop who has applied for drilling permits in behalf of this company has been lost in a personal plane since May 27, 1959, while enroute from Denver, Colorado to Farmington, New Mexico. An intensive search by C.A.P., the Air Force and private individuals has failed to reveal his whereabouts.

We wish to designate Mr. James E. Geary as Power of Attorney to announce an oil and gas location and to obtain permit for same and to have the proper power to execute bonds and other necessary instruments in behalf of this company. The requested permit is for the State #1-28 to be located in SE SE Section 28-20N-26E, Apache County, Arizona.

Trusting this will be sufficient for you to issue the requested permit, I remain

Sincerely yours,

EASTERN PETROLEUM COMPANY

By Henry Fullop
Henry Fullop - Partner

HF:sjn

cc: Mr. James W. Dean
Eastern Petroleum Company
2520 First Nat'l. Bank Bldg.
Denver 2, Colorado

88

June 12, 1959

Mr. Phillip W. Johnson
P. O. Box 4126
Tucson, Arizona

Dear Phil:

I am transmitting herewith the intent for Eastern Petroleum Company for Section 28, Township 20 North, Range 26 East, Apache County which was presented by Mr. James E. Geary, Attorney this date.

Mr. Geary has been appointed by James W. Dean of Eastern Petroleum Company to execute all necessary instruments pertaining to their company.

Would you please check it over and return to me as soon as is convenient?

Best regards.

Very truly yours,

Muriel R. Bates

mb
Encl.

88

June 12, 1959

Eastern Petroleum Company
1st National Bank Building
Denver 2, Colorado

Gentlemen:

Reference is made to Power of Attorney, dated June 11, 1959, designating James E. Geary as attorney for Eastern Petroleum Company.

According to our records, Mr. James W. Dean, signer of the above mentioned Power of Attorney, has never been designated to sign such an instrument. The Organization Report of your company on file in this office designates only Paul Fullop as authorized agent for the partnership.

Please forward to us an instrument authorizing James W. Dean to act for your company.

Very truly yours,

STATE LAND COMMISSIONER

By: Frederick C. Ryan,
Supervisor,
Oil and Gas Conservation

FCR:mb
cc - James E. Geary

88

9886

EASTERN PETROLEUM CO.
EASTERN DRILLING, INC.

1ST NATIONAL BANK BLDG.
DENVER 2, COLORADO

June 9, 1959

Mr. Phillip W. Johnson, State Geologist
State Land Department
Arizona State Office Building
Phoenix, Arizona

Re: Well Nos. 1-6 and 1-10
T19N, R26E
Apache County, Arizona

Dear Mr. Johnson:

Mr. Charles Blanton, Drilling Superintendent of this company, has in the course of conversation advised me that you paid a personal visit to our drilling operations at the above described wells.

I am sure that Mr. Blanton relayed to you the situation facing this company with the disappearance of Mr. Paul Fullop during an airplane trip on May 27th from Denver to the Pinta Dome area. Mr. Fullop had of course handled all of the details concerned with the acquisition of permits and other matters relating to the State of Arizona, and I am at this time attempting to the best of my ability to familiarize myself with the overall operations of this company in that particular area. I trust that our actions to date have met with the approval of yourself and State agencies.

In behalf of this company, I wish to express our appreciation for some of the helpful suggestions that you passed on to Mr. Blanton. I feel sure that Mr. Blanton has of course advised you of the position taken by this company to the general release of information in light of the previous attitude taken by other offset operators in the immediate vicinity of Pinta Dome. This position of course does not include such necessary information as would be required by agencies of the State of Arizona.

Respectfully yours,

EASTERN PETROLEUM COMPANY
Rocky Mountain Division

James W. Dean
Geologist

JWD:JS

RECEIVED
JUN 11 1959
STATE LAND DEPT.

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May 20, 1959

Eastern Petroleum Company
2520 First National Bank Building
Denver 2, Colorado

Attention: Paul Fullop

Dear Mr. Fullop:

I am writing to acquaint you with the program for the collection of sample cuttings from wells drilled in Arizona and to request your cooperation in helping us carry out this program.

The overall policy of collecting and preserving sample cuttings is a joint program between the Arizona State Land Department, the U. S. Geological Survey Ground Water Branch, the Arizona Bureau of Mines, and the Museum of Northern Arizona.

Inasmuch as your particular concern is the drilling of oil test wells, I will confine my discussion to the phase of the program directly bearing on your operation.

Under the law it is mandatory that samples of cuttings and core chips taken at all intervals from all oil and gas test wells, as well as logs and other pertinent data, be filed with the State Land Commissioner within six months after the well is completed or abandoned.

The sample cuttings from all oil and gas test wells in Arizona are collected and cut to supply either two or three complete sets of samples, depending on the location of the well. All test wells in the northern part of the State (Plateau Uplands) are cut to make three complete sets: One set for the loan library at the State Land Department, Phoenix, Arizona; one set for the permanent library at the Arizona Bureau of Mines, University of Arizona, Tucson, Arizona, Tucson, Arizona; and one set for the Research Center, Museum of Northern Arizona, Flagstaff, Arizona. All wells drilled in the southern part of the State (Basin and Range Lowlands) are cut to make two complete sets: One set for the State Land Department and one set for the Arizona Bureau of Mines.

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Inasmuch as your wells arelocated in the northern part of the State, a large enough sample of cuttings will be needed to make three complete sets.

Arrangements for handling the samples should be made directly through me or the State Land Department.

We sincerely appreciate your cooperation in this matter. If we can serve you in any way, please feel free to call on us.

Very truly yours,

Phillip W. Johnson,
Geologist

PWJ:mb

JUL--1-59 64080 • •81193 Ck ═══ 25.00

STATE OF ARIZONA
STATE LAND DEPARTMENT
STATE OFFICE BUILDING—PHOENIX, ARIZONA

STATEMENT RECEIPT OFFICE COPY

Eastern Petroleum Company
2530 1st National Bank Bldg.,
Denver 2, Colorado

SECTION	TOWNSHIP	RANGE
28	20 N	26 E

KIND ENTRY	LEASE – REFERENCE NO.
22	88

ACCOUNT NO. GRANT FUND	ACCOUNT NO. SUB	CARRYING CAPACITY OR STATIC WATER LEVEL	SEE OTHER SIDE FOR CODE DESCRIPTION: LAND CODE	CROP CODE	WATER CODE	BILLING DESCRIPTION	RATE	ACRES	$ AMOUNT
14	401	35				Drilling Permit Application			25 00

BILLING PERIOD FROM MO.	FROM DAY	FROM YR.	TO MO.	TO DAY	TO YR.	DATE BILLED MO.	DAY	YR.	DATE DUE MO.	DAY	YR.	TOTAL ACRES	TOTAL AMOUNT $
						6	12	59					25 00

IF PAYMENT IS MADE ON OR BEFORE THIS DATE → PAY THIS AMOUNT

SEE OTHER SIDE FOR LAW PERTAINING TO PENALTY AND INTEREST — A. R. S. SEC. 37-286.

PENALTY AND INTEREST	DISTRIBUTION
$	

RENTAL AMOUNT SUBJECT TO PENALTY AND INTEREST IF NOT PAID ON OR BEFORE DATE DUE - - - ($)
5% PENALTY OF RENTAL AMOUNT - - - - - - $
TOTAL RENTAL AMOUNT PLUS PENALTY - - - - ($)
10% INTEREST PER ANNUM OF RENTAL AMOUNT AND PENALTY — NUMBER OF DAYS DELINQUENT ( ) $ — $ TOTAL PENALTY AND INTEREST
TOTAL AMOUNT DUE INCLUDING PENALTY AND INTEREST - - - - - - $
CASH RECEIVED $
BALANCE DUE OR OVERPAYMENT $

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