

Eastern Petro 29 Santa Fe
NE/4 SW/4 Sec 28-20N-27E
Apache County

258

P-W

DRILL STEM TEST

NO.	FROM	TO	RESULTS
1	1087	1093	Open 3 1/3 hr. Rec 10' M. Tested 98 MCFPD FCIP 11.2 psi

CORE RECORD

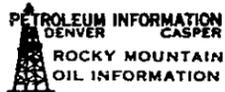
NO.	FROM	TO	RECOVERY	REMARKS

REMEDIAL HISTORY

DATE STARTED - COMPLETED	WORK PERFORMED	NEW PERFORATIONS

ADDITIONAL INFORMATION

258
ARIZONA
AFACHE CO.
NAVAJO SPRINGS (D)



Twp 20n-27e
Section 28
ne sw
1650 n/s 1650 e/w

OPR: Eastern Pet

WELL #: 32 Eastern-Santa Fe- Fee

ELEV: 5755 Gr.

DSTS. & CORES:

SPUD:

COMPL:

TOPS: Log-Sample

TD: approx 1200 PB:

CSG:

PERF:

PROD. ZONE:

INIT. PROD:
Helium gas well

(CARD WILL BE RE-ISSUED WHEN DATA RELEASED)

ARIZ 16-463260

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			
Lease Name Eastern -Santa Fe Fee		Well Number 32	Field & Reservoir Navajo Springs Area		
Location 1650 N. of S.L.; 1650' E. of W.L.		Sec.—TWP-Range or Block & Survey SW Sec. 28-20N-27E			
County Apache	Permit number 258	Date Issued 11-13-63	Previous permit number	Date Issued	
Date spudded 11-8-63	Date total depth reached 11-23-63	Date completed, ready to produce 11-24	Elevation (DF, RKB, RT or Gr.) 5755 feet	Elevation of casing hd. flange feet	
Total depth 1133	P.B.T.D.	Single, dual or triple completion? Single		If this is a dual or triple completion, furnish separate report for each completion.	
Producing interval (s) for this completion 1090-1100		Rotary tools used (interval) Entire		Cable tools used (interval) --	
Was this well directionally drilled? No		Was directional survey made? No		Date filed	
Type of electrical or other logs run (check logs filed with the commission) Schlumberger induction				Date filed	

CASING RECORD

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

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Surface		7"		63	8	
Long string	6 1/2"	2 7/8"		1133	75	

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	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 11-23	Hrs. tested 4	Choke size 3/4"	Oil prod. during test -- bbls.	Gas prod. during test 98 MCF	Water prod. during test -0- bbls.	Oil gravity * API (Corr)
Tubing pressure	Casing pressure	Cal'd rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio

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

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the 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.

April 6, 1964
Date

Signature J. N. Edwards

STATE OF ARIZONA OIL & GAS
CONSERVATION COMMISSION
Well Completion or Recompletion Report and Well Log
Form No. P-7
File two copies
Authorized by Order No. _____
Effective _____

258

PLUGGING RECORD

Operator Eastern Petroleum Company		Address Box 291, Carmi, Illinois 62821	
Federal, State, or Indian Lease Number, or lessor's name if fee lease. Santa Fe		Well No. 32	Field & Reservoir Navajo Springs Coconino Sand Unit
Location of Well 1650 NSL; 1650 EWL		Sec-Twp-Rge or Block & Survey 28-20N-27E	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 (bbbls/day) - Gas (MCF/day) 98 Dry? -	
Date plugged: 10/12/77	Total depth 1133	Amount well producing when plugged: Oil (bbbls/day) - Gas (MCF/day) TSTM Water (bbbls/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
Coconino	Water	1090-1100	Plug top to bottom with cement slurry 7 bbbls

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
7"	63	None	63	-	-
2-7/8"	1133	None	1133		

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

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

Name	Address	Direction from this well:
Spurlock Ranches	Navajo, Arizona	Land Owner

In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required.

Use reverse side for additional detail.

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the **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 **11/1/77**

Signature *J. N. Edwards*

COPY

Permit No. **258**

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

Form No. 10

APPLICATION TO ABANDON AND PLUG

FIELD Navajo Springs Coconino Sand Unit
OPERATOR Eastern Petroleum Company ADDRESS Box 291, Carmi, Illinois 62821
Federal, State, or Indian Lease Number or Lessor's Name if Fee Lease Santa Fe WELL NO. 32
LOCATION 1650' NSL; 1650' EWL Section 28-20N-27E, Apache County

TYPE OF WELL Gas-Helium TOTAL DEPTH 1133'
(Oil, Gas or Dry Hole)
ALLOWABLE (If Assigned)
LAST PRODUCTION TEST OIL -- (Bbls.) WATER -- (Bbls.)
GAS 98 (MCF) DATE OF TEST 11/23/63
PRODUCING HORIZON Coconino PRODUCING FROM 1090 TO 1100

1. COMPLETE CASING RECORD.

7" casing @ 63' w/8 sks.
2 7/8" @ 1133' w/75 sks.

2. FULL DETAILS OF PROPOSED PLAN OF WORK.

Plug top to bottom w/cement slurry

DATE COMMENCING OPERATIONS 10/12/77
NAME OF PERSON DOING WORK Petroleum Consultants ADDRESS Denver, Colorado

Signature
Secretary
Title
Box 291, Carmi, Illinois 62821
Address
November 1, 1977
Date

Date Approved
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Abandon and Plug
File Two Copies
Form No. 9

COPY

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Eastern Petroleum Company
 2. Oil WELL GAS WELL OTHER (Specify) _____
 3. Well Name Santa Fe #32
 Location SW NE SW
 Sec. 28 Twp. 20N Rgs. 27E County Apache Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease
Santa Fe Pacific Railroad Co. fee
 5. Field or Pool Name Navajo Springs Unit

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:			SUBSEQUENT REPORT OF:				
TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>	MONTHLY PROGRESS	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	DIRECTIONAL DRILL	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	PERFORATE CASING	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>	(OTHER) <u>Shut-in</u>	<input type="checkbox"/>	ABANDONMENT	<input type="checkbox"/>
(OTHER)	<input type="checkbox"/>						<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

This well is part of Navajo Springs Unit and production from this well is not required to maintain monthly allowable take.

RECEIVED

MAR 15 1974

O & G CONS. COMM.

I hereby certify that the foregoing is true and correct.

Signed J. Edwards Title Secretary Date March 12, 1974

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
 File Two Copies
 Form No. 28

Permit No. 258

1 - State of Arizona ✓
 1 - File

NAVAJO SPRINGS AREA WELLS EASTERN PETROLEUM COMPANY - OPERATOR

PERMIT NUMBER	WELL NAME	LOCATION	TOTAL DEPTH	FORMATION	INTERVAL PERFORATED	COMPLETION DATE	INITIAL POTENTIAL MCFD	12-31-73 CUMULATIVE PROD. (MCF)	DATE OF LAST PROD.	PROD. CSG. DEPTH & SIZE	HOLE SIZE	NO. CEMENT SACKS USED	ESTIMATED TOP OF CEMENT	OPERATORS EST. OF CSG. RECOVERABLE	REMARKS
✓ 110	Crest Santa Fe #2	NW/SW 33-20N-27E	1140 PBTD 1105	Coconino	1062-72	6-24-60	12.75	Never Prod.		2 7/8" @ 1107	4 3/4"	50			
✓ 184	Eastern Santa Fe #13	NE/SW 31-20N-27E	980	Coconino	Open Hole	6-25-62	6290	1,400,623		4 1/2" @ 967	6 1/4"	50			Navajo Springs
✓ 204	Crest Santa Fe #7	SE/NE 6-19N-27E	1060	Coconino	1042-52	9-11-62	155	Never Prod.		2 7/8" @ 1060	4 3/4"	25			
✓ 206	Eastern Santa Fe #14	SE/NW 5-19N-27E	1100 1361	Coconino	1026-56	10-16-62	200	47,594	Oct. 1973	4 1/2" @ 1100	6 3/4"	100			East Navajo Springs
✓ 234*	Ancon Santa Fe Fee #21	SE/NW 31-20N-28E	PBTD 1330	Shinarump	1173-94+	9-13-63	3.0	22,005	Sept. 1972	2 7/8" @ 1330	4 1/4"	25	730	Low	Shinarump Pool
✓ 236	Santa Fe Fee #17	SW/NW 4-19N-27E	1057	Coconino	1037-57	6-17-63	250	56,948	Dec. 1973	4 1/2" @ 1057	6 1/4"	65			
✓ 238	Kerr-McGee Barfoot #1	NE/SW 32-20N-27E	1087	Coconino	986-1005	7-30-63	1160	225,555		4 1/2" @ 1076	6 1/4"	150			Navajo Springs
✓ 255	Santa Fe Fee #31	NW/SE 29-20N-27E	1049	Coconino	992-1006	10-25-63	590	Never Prod.		2 7/8" @ 1049	4 3/4"	50			Navajo Springs
✓ 258	Santa Fe Fee #32	NE/SW 28-20N-27E	1133	Coconino	1090-1100	11-24-63	0	Never Prod.		2 7/8" @ 1133	6 1/4"	25			Navajo Springs
✓ 259	Santa Fe Fee #35	NE/SW 27-20N-27E	1072	Coconino	Open Hole	7-11-64	1570	27,111	Oct. 1972	2 7/8" @ 1062	6 1/4"	25			Navajo Springs
✓ 259	Kerco #2 Fee	SW/NE 1-19N-26E	1067	Coconino	1012-16	3-0-66	250-200 Est.	Never Prod.		2 7/8" @ 1113	4 3/4"	100			
✓ 471	Crest Santa Fe #1	SE/SE 25-20N-27E	1225 PBTD 1140	Shinarump	1046-1110	11-20-65	51	24,451	Dec. 1973	4 1/2" @ 1171	6 1/4"	25			Original Well
✓ 536*	Santa Fe Fee #24	SE/NW 24-20N-27E	1340 PBTD 1173	Shinarump	1145-73	9-30-71	Negligible	Never Prod.		2 7/8" @ 1403	4 1/4"	25	Enough cement to circulate	1290	East Navajo Springs
✓ 537*	Santa Fe Fee #21-1A	NW/NW 31-20N-28E	1232	Coconino	Open Hole	9-15-70	470	2,299	Oct. 1972	4 1/2" @ 1215	4 1/4"	100	65	1075	
✓ 560*	Kiya Santa Fe Fee #1	NE/SW 13-20N-25E	1230 PBTD 1150	Shinarump	1040-56	12-06-71	No Gas Reported	Never Prod.		4 1/2" @ 1152	6 1/4"	100	65	1000	
✓ 565*	Santa Fe #6X-1	SE/NW 25-20N-25E	1261 PBTD 1174	Shinarump	1126-60	1-06-72	No Gas Reported	Never Prod.		4 1/2" @ 1165	6 1/4"	100	700	1120	
✓ 565*	Santa Fe Fee Sanders #2	NE/SW 15-21N-25E	516	Coconino	406-420	4-20-72	TSM	Never Prod.		4 1/2" @ 516	6 1/4"	25	110	1020	
✓ 576*	Szar State #1	NW/SW 36-20N-27E	1215	Shinarump	1154-62	4-25-72	Well On Vacuum During Test	Never Prod.		4 1/2" @ 1215	6 1/4"	100	100	1070	East Navajo Springs
✓ 584*	Santa Fe Fee Dreck #1	SE/SW 25-20N-27E	1266	Shinarump		6-21-72	Not Tested	Never Prod.		7" @ 1266	6 3/4"	67	100	1000	Navajo Springs
✓ 592*	Indian Allotted Merde #1	SE/SW 30-20N-25E	1200	Shinarump	1062-93	5-17-72	155	991	Oct. 1972	4 1/2" @ 1200	6 1/4"	100	800	1070	Well In Pool
✓ 596*	Indian Allotted Merde #2	SW/SE 30-20N-25E	1343 PBTD 1215	Shinarump	Completion Report Never Submitted			Never Prod.		2 7/8" @ 1150	4 3/4"	No Report		1110	Well In Pool
✓ 599*	Kiya Santa Fe Fee #2	NE/SW 24-20N-25E	1230	Coconino	1155-1215	11-12-72	TSM	Never Prod.		4 1/2" @ 1215	6 1/4"	100	100	1070	
✓ 600*	Santa Fe Fee Beacon #1	NW/SE 29-20N-29E	1265	Coconino	No Perfs. Reported	2-25-72	No Test Reported	Never Prod.		4 1/2" @ 1265	6 1/4"	55	810	1000	
✓ 601*	Santa Fe Fee #1-11	SE/SE 11-20N-28E	1075	Coconino	Open Hole	11-10-72	TSM	Never Prod.		4 1/2" @ 1055	6 1/4"	65	710	1000	

* Applications to Plug have been approved.

Cement bond log indicates bottom of cement at 726'

From Application to Plug

NAVAJO SPRINGS AREA WELLS EASTERN PETROLEUM COMPANY - OPERATOR

TOTAL DEPTH	FORMATION	INTERVAL PERFORATED	COMPLETION DATE	INITIAL POTENTIAL MCFD	12-31-73 CUMULATIVE PROD. (MCF)	DATE OF LAST PROD.	PROD. CSG. DEPTH & SIZE	HOLE SIZE	NO. CEMENT SACKS USED	ESTIMATED TOP OF CEMENT	OPERATORS EST. OF CSG. RECOVERABLE	REMARKS
1140												
N-27E PRTD 1105	Coconino	1062-72	6-24-60	12.75	Never Prod.		2 7/8" @ 1107	4 3/4"	50			
N-27E 980	Coconino	Open Hole	6-25-62	6290	1,400,623		4 1/2" @ 967	6 1/4"	50			Navajo Springs Unit
N-27E 1060	Coconino	1042-52	9-11-62	185	Never Prod.		2 7/8" @ 1060	4 3/4"	25			
N-27E 1100 1361	Coconino	1026-56	10-16-62	300	47,594	Oct. 1973	4 1/2" @ 1100	6 3/4"	100			
N-28E PRTD 1330	Shinarump	1173-94+	9-13-63	3.0	22,005	Sept. 1972	2 7/8" @ 1330	4 3/4"	55	730	1300	East Navajo Springs Shinarump Pool
N-27E 1057	Coconino	1037-57	6-17-63	250	86,948	Dec. 1973	4 1/2" @ 1057	6 1/4"	65			
N-27E 1087	Coconino	936-1008	7-30-63	1160	225,555		4 1/2" @ 1076	6 3/4"	140			Navajo Springs Unit
N-27E 1049	Coconino	992-1006	10-25-63	590	Never Prod.		2 7/8" @ 1049	4 3/4"	50			Remedial work on this well between completion date & test date (work not reported).
N-27E 1133	Coconino	1090-1100	11-24-63	95	Never Prod.		2 7/8" @ 1133	6 1/4"	75			
N-27E 1072	Coconino	Open Hole	5-11-64	1570	27,421	Oct. 1973	4 1/2" @ 1062	6 1/4"	65			
N-26E 1067 1225	Coconino	1012-16	3-05-66	250-200 Est.	Never Prod.		2 7/8" @ 1063	4 3/4"	100			
N-27E PRTD 1140 1340	Shinarump	1046-1110	11-20-68	51	34,451	Dec. 1973	4 1/2" @ 1171	6 1/4"	70			Originally completed in Coconino
N-27E PRTD 1173	Shinarump	1145-73	9-30-71	Negligible	Never Prod.		2 7/8" @ 1403	4 3/4"	220	Enough cement to circulate	1290	East Navajo Springs Shinarump Pool
N-26E 1232	Coconino	Open Hole	9-15-70	470	5,299	Oct. 1972	4 1/2" @ 1211	6 1/4"	100	653	1072	
N-25E PRTD 1150 1261	Shinarump	1040-56	12-06-71	No Gas Reported	Never Prod.		4 1/2" @ 1175	6 1/4"	100	645	1025	
N-25E PRTD 1174	Shinarump	1126-90	1-06-72	No Gas Reported	Never Prod.		4 1/2" @ 1265	6 1/4"	100	220	1125	
N-25E 516	Coconino	406-420	4-20-72	TSM	Never Prod.		4 1/2" @ 516	6 1/4"	75	116	410	
N-27E 1215	Shinarump	1154-62	4-25-72	Well On Vacuum During Test	Never Prod.		4 1/2" @ 1215	6 1/4"	100	65	1075	East Navajo Springs Shinarump Pool
N-27E 1266	Shinarump		6-21-72	Not Tested	Never Prod.		7" @ 1265	8 3/4"	65	Circulated Surface	None	This well erroneously reported plugged.
N-25E 1200 1343	Shinarump	1062-93	5-17-72	156	991	Oct. 1972	4 1/2" @ 1200	6 1/4"	100	Bottom 726**	1060	Hole in case of 726'
N-25E PRTD 1215	Shinarump	Completion Report Never Submitted			Never Prod.		2 7/8" @ 1197***	4 3/4"	No Report		1155	This well flowing water between case & log.
N-25E 1230	Coconino	1153-1215	11-12-72	TSM	Never Prod.		4 1/2" @ 1215	6 1/4"	60	577	1072	
N-29E 1265	Coconino	No Perfs. Reported	2-25-72	No Test Reported	Never Prod.		4 1/2" @ 1265	6 1/4"	55	515	1125	
N-25E 1075	Coconino	Open Hole	11-10-72	TSM	Never Prod.		4 1/2" @ 1055	6 1/4"	65	710	1005	

ent at 726'

Eastern Petroleum
4/5/74
See 28-200



ENGINEERING REPORT

of

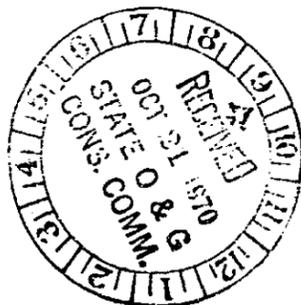
Well Tests and Gas Flow Calculations
Shut-in Gas Wells, Navajo Springs Area
Apache County, Arizona

For

Western Helium Corporation

By

John H. Miller



257

JOHN M. HELLER

REGISTERED ENGINEER

P. O. Box 1507
1727 Forest Ave
DURANGO, COLORADO
81301

September 22, 1970

Phone 247-3846
AREA CODE (303)

Western Helium Corporation
P. O. Box 1358
Scottsdale, Arizona 85252

Gentlemen:

Submitted herewith is an engineering report of well tests and flow rate calculations on shut-in gas wells in the Navajo Springs Unit area.

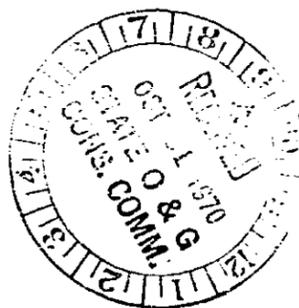
This report is made at the request of Mr. R. E. Lauth. I wish to express my appreciation to him and also Mr. Henry Fullop of Eastern Petroleum Corporation for their cooperation in obtaining the field information and the accommodations they furnished while obtaining the field information.

I believe the data shown herein is sufficient for your needs. Do not hesitate to contact me if there are any questions about this report.

Very truly yours,

John M. Heller
John M. Heller

Copies to:
Mr. Henry Fullop
Mr. R. E. Lauth



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PURPOSE

To determine the productive capacity of shut-in gas wells in the Navajo Springs Unit and surrounding area, Apache County, Arizona.

To project flow rates at field gathering line pressures of 10, 20, 30, and 40 psig.

SUMMARY

Five wells, Santa Fe Nos. 14, 17, and 21-2; Nease No. 2; and Crest No. 7, were tested. These tests and calculated data indicate the wells are capable of producing at this time. A test was attempted on Santa Fe No. 35 but results are not valid because of fluid entry into the well bore during the flow periods. This well does have the capacity to produce some gas at limited rates before remedial work is necessary.

Calculated delivery rates at various back pressures are given below for individual wells:

Well No.	Location	Delivery Rates - MCFD			
		10 psig.	20 psig.	30 psig.	40 psig.
Santa Fe No. 14	Tucson	345	377	395	721
Santa Fe No. 17	"	350	340	310	201
Santa Fe No. 21-2	Salinas	525	510	510	490
Nease No. 2	Tucson	730	690	640	530
Crest No. 7	"	170	170	140	140
Total (above) - 1771		2120	2077	2015	2183

Santa Fe No. 35 could possibly produce at a rate of 100 MCFD without much difficulty.

ASD

PROGRAM and PROCEDURE

Information and data required to make the flow rate projections were obtained by individual well tests. Gas flow measurements were taken through a 2" Critical Flow Prover and a 2" Orifice Cell Tester at critical flow. Pressures were obtained by dead weight and test gauges to the nearest one pound increment. Assumptions were made on the gravity of the gas and the barometric pressure.

Calculations were made to a base pressure of 14.65 psia. @ 60° F. The back pressure curves are drawn on values of P_0 and P_w , surface shut-in and working pressures, corrected for flow friction where it was significant.

Two four point tests were satisfactorily completed and the slope of the back pressure curve on these wells was applied to the other wells where one point tests were taken.

The projected delivery rates shown in this report were obtained by analyzing the back pressure curves, calculating the flow friction and adjusting the flow volume.

DISCUSSION

Santa Fe Wells No. 14, 17, and 21-3; Keese No. 2; and Crest No. 1 were favorably tested. Keese No. 2 did show a slight amount of moisture at the end of the test period but does not appear to affect the delivery potential at this time. Santa Fe No. 35 test is not considered valid because of the fluid entry into the well bore during the test period. This well can be produced to some extent and could show a sizable cumulative production before it becomes necessary to recondition. It is suggested that this well be produced at a rate of about 100 MCF per day initially and checked closely for the fluid build up in the well bore, unclogging by blowing full open to the atmosphere for only short periods of time when necessary.

Other wells in the Navajo Springs Unit were checked but flow tests were not taken. They would not test in a satisfactory manner. Details of these wells are shown on page number 14 of this report.

The total CrOP of the five wells considered productive at this time is 3,123 MCF. It would be prudent to start initial deliveries at approximately 25% of the CrOP or about 784 MCF. This does not include the 100 MCF that may be produced from Santa Fe No. 35. That individual wells be checked closely for performance and the producing rates adjusted accordingly.

2/2

Wells Not Tested

Santa Fe No. 31 Sec. 29-20N-27E.

9/12/70 Shut-in well head pressure - 92 psig. Started flow test and well started dying. Dropped soap stick and shut-in overnight.

9/13/70 Shut-in 17½ hrs. Well head pressure - 90 psig. Opened well to blow. Fluid in 5 minutes. Flew well for 20 minutes. Making water at end of blow period. Too wet to test. Well head pressure 1½ hours after blowing was 60 psig.

Santa Fe No. 32 Sec. 29-20N-27E.

9/12/70 Shut-in well head pressure - 27 psig. Opened to blow. Dead. Dropped soap stick and shut-in overnight.

9/13/70 Shut-in well head pressure after 18 hours - TSTM. Opened well - Dead.

Crest No. 2 Sec. 33-20N-27E.

9/13/70 Shut-in well head pressure - 12 psig. Opened to blow. Very light blow - Dead.

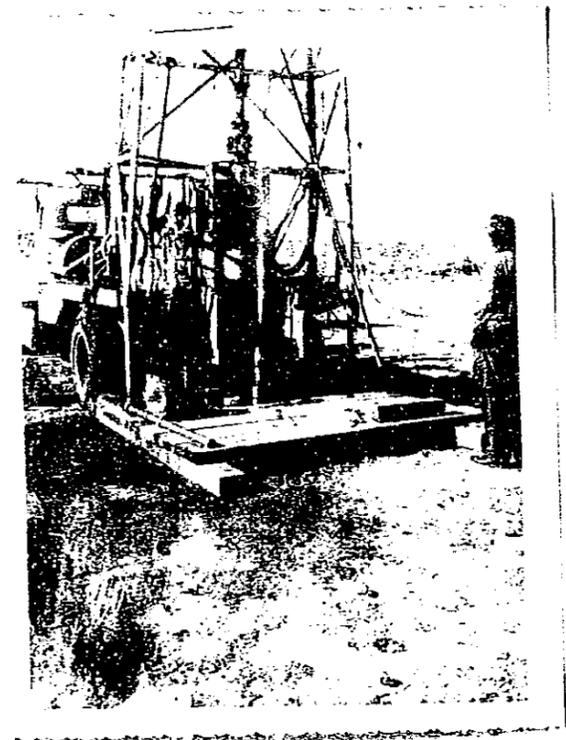
Santa Fe No. 13 Sec. 31-20N-27E.

Producing into Kerr-McGee System. Well flowing with a well head pressure of 79 psig. Flow controlled by a pinched valve. Orifice Meter - American L-10-S chart; 50" X 250 psi. range; 4" X 2.50" plate; readings; L-3.9; P-3.6; T-6.8; Test gauge reads 22.5 psig.

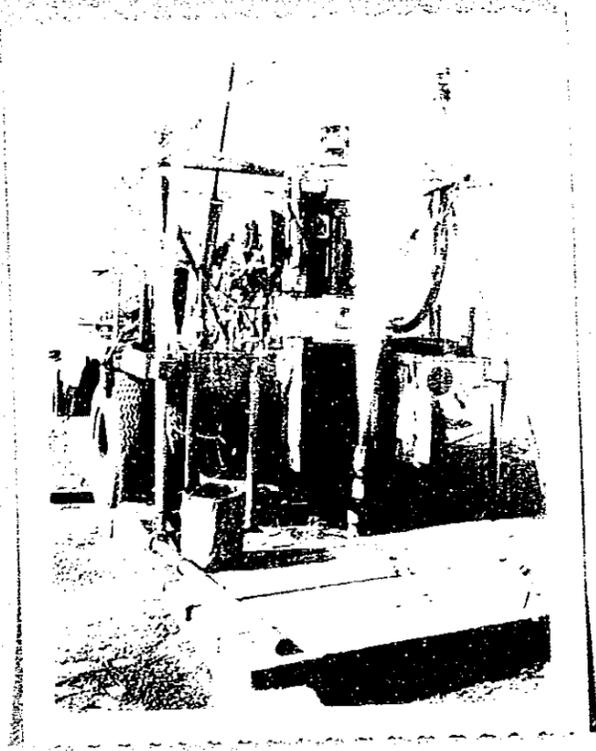
Flow had been fluctuating. Check readings indicate well was at that time flowing at approximately 538 MCFD. There was no indication of any water being produced at this rate.

Barfoot State No. 1 Sec. 32-20N-27E.

Producing into Kerr-McGee System. Well flowing with a well head pressure of 24 psig. Not restricted. Orifice Meter - American L-10-S chart; 50" X 250 psi. range; 4" X 0.50" plate; readings; L-2.5 to 4.0; P-3.7; T-7.2. Test gauge reads 24 psig. Flow had been fluctuating. Check readings indicate well was at that time flowing at a rate between 12.5 and 20 MCFD. The differential pen was sweeping in the range of 2.5 to 4.0 on the chart. This may have been an indication of some fluid being present in the well bore.



#258



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

Federal, State or Indian Lease Number, or lessor's name if fee lease Santa Fe fee & State	Field Navajo Springs	Reservoir Coconino
Survey or Sec-Twp-Rge Navajo Springs Unit	County Apache	State Arizona
Operator Eastern Petroleum Company		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street Box 291	City Carmi	State Illinois
Above named operator authorizes (name of transporter) Kerr-McGee Oil Industries, Inc.		
Transporter's street address Kerr-McGee Building	City Oklahoma City	State Oklahoma
Field address Navajo, Arizona		
Oil, condensate, gas well gas, casinghead gas		
To transport 100	% of the gas from the Navajo Springs Unit	XXXXXXXXXXXX
OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:		
Name of gatherer:	% transported	Product transported
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.		
Certificate is to allow for the hookup of an additional well to the Kerr-McGee transmission line. Effective September 7, 1965.		

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.

Date October 27, 1965

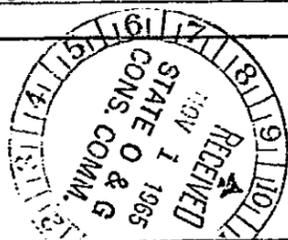
Signature *J. Edwards*

Date approved: Nov 1, 1965

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By: *John Bonmister*

Permit No. Navajo Springs Unit



STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Operator's Certificate of Compliance & Authorization to Transport Oil or Gas from Lease
File Two Copies

258

DOMESTIC SERVICE	
Check the class of service desired; otherwise this message will be sent as a fast telegram.	
TELEGRAM	
DAY LETTER	
NIGHT LETTER	

WESTERN UNION TELEGRAM

1206 (4-55)

W. P. MARSHALL, PRESIDENT

INTERNATIONAL SERVICE	
Check the class of service desired; otherwise the message will be sent at the full rate.	
FULL RATE	
LETTER TELEGRAM	
SHORE-SHIP	

NO. WDS.-CL. OF SVC.	PD. OR COLL.	CASH NO.	CHARGE TO THE ACCOUNT OF	TIME FILED
			From: Otto Barton, Superintendent, Oil and Gas Production, Pan Handle Division, Kerr-McGee Oil Industries, Inc., Sunray, Texas	

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

May 26, 1964
4:30 p.m.

Mr. John Bannister
Oil & Gas Conservation Commission
1624 West Adams
Phoenix, Arizona

Outlined below please find analyses of gas from samples taken from Eastern Petroleum Company Wells No. 31, Section 29; No. 32, Section 28; No. 35, Section 27, all in T20N - R27E, Apache County, Arizona:

Well No. 31: Argon .79, CO2 .89, Helium 8.32, Hydrogen 90.00, Total percentage 100.00. Specific gravity .9065. ↗ ???

Well No. 32: Argon .79, CO2 .88, Helium 8.34, Nitrogen 89.99, Total percentage 100.00, Specific gravity .9063.

Well No. 35: Argon .68, CO2 .90, Helium 8.34, Nitrogen 90.08, Total percentage 100.00, Specific gravity .9059.

This information furnished at request of Henry Fullop, President, Eastern Petroleum Company.

SILAS C. BROWN & ASSOCIATES
GEOLOGICAL CONSULTANTS
P. O. BOX 1266
SCOTTSDALE, ARIZONA

May 26, 1964

Arizona Oil and Gas Conservation
Commission
1624 West Adams
Phoenix, Arizona 85007

Atten: Mr. John Bannister
Executive Secretary

Dear Sir:

On May 11, 1964 I was retained by Mr. John Bannister to represent the Commission and witness potential tests on the following helium wells owned by the Eastern Petroleum Company in Apache County, Arizona:

1. No. 31 Santa Fe, NW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 29-T20N-R27E.
2. No. 32 Santa Fe, NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 28-T20N-R27E.
3. No. 35 Santa Fe, NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 27-T20N-R27E.

The instructions were to secure a basic 3-point test or more points if necessary to establish an accurate potential on the wells listed above.

I met with Mr. Otto Barton of Kerr-McGee Oil Industries, Inc. and Mr. Henry Fullop of Eastern Petroleum Company at 7:30 A.M. on May 12, 1964 in Navajo, Arizona. We were joined by Mr. Richard Otto of Kerr-McGee and potential tests were made on Wells No. 31 and 35. Well No. 32 had been given a mud-acid treatment during the morning of May 12th. An attempt was made to potential the well on the morning of May 13th, however, acid water was still present and pressures would not stabilize. The well was blown open flow for 1 hour and 40 minutes without appreciable decrease in the amount of acid water. The well was blown open flow for the balance of the day and still made acid water but no salty formation water was observed. To conserve gas the well was then shut in to be tested in 10 to 14 days.

Mr. Otto Barton reported by phone that an attempt was made to potential the well on May 25, 1964 but the pressures would not stabilize. This test was attempted by Mr. Richard Otto of Kerr-McGee and Mr. Tony Sneider of Eastern Petroleum.

A 5-point test was made on Well No. 35 and a 4-point test was made on Well No. 31. A Pitot Tube test was made on

Well No. 32 since the pressure would not stabilize.

Based upon field data obtained, it is my opinion that the wells have the following potentials - absolute open flow:

1. Well No. 31 - 590 MCFG/D - Used 2" Critical Flow Prover
2. Well No. 35 - 1,570 MCFG/D - Used 2" Critical Flow Prover
3. Well No. 32 - \pm 580 MCFG/D - Used Pitot Tube

Included with this letter report are two copies of the Open Flow Potential Test Report for Wells No. 31 and 35 as calculated by Mr. Charles D. Campbell of Kerr-McGee Oil Industries, Inc. Also Included are field data sheets showing data as observed in the field during the tests.

Respectfully submitted,

Silas C. Brown
Silas C. Brown
Registered Geologist



FLOW RATES ON WELLS
IN NAVAJO SPRINGS FIELD, APACHE COUNTY, ARIZONA

RATES WITH PRESSURE CLOSE TO 100#

SIP	WELL NAME	ORIFICE SIZE	WELL TUBING	2" PROVER PRESS - PSIG	HOURS TESTED	VOLUME MCFPD
106.7	Santa Fe 35	7/16		96.9	15 1/2	365
106.7	" " 31	3/8		99.9	17 1/2	48
106.6	" " 32	1/8*		105.7	17 1/2	19
133.8	" " 21	1/16		59.5	8 1/2	4
105.6	" " 13	1		93.8	15	580
105.4	" " 7	1/8*		99.9	15 1/4	4
105.4	" " 14	3/8		97.4	15 1/2	270
105.5	" " 17	3/16		98.5	16 3/4	70
201.5	" " 8			91 + 93	12-13 1/2	7 bbls. salt water/hr.
105.5	" " 2			Well pulled down 1/4 mile, water & brine, slightly salty.		1800 MCFPD
* Orifice well tester.						
After Testing						
MAXIMUM RATE OF FLOW						
106.6	Santa Fe 35	3/4		80.1	1 1/2	668
106.6	" " 31	1/2		76	1 1/2	394
106.5	" " 32	1/2		Well tight, pressure kept falling		19
133.9	" " 21			Same as No. 21 above.		
105.6	" " 13			94.1	4	1900
105.4	" " 7	1/2		31.9	2 1/4	28
105.4	" " 14	7/8		7.6	3 1/4	700
105.5	" " 17	7/8		19.7	2	435
NOT Taken	" " 8			91	18 1/4	468
NOT Taken	" " 2			Same as No. 2 above.		

Phyllis B. Emmens
August 13, 1964

SILAS C. BROWN & ASSOCIATES
GEOLOGICAL CONSULTANTS
P. O. BOX 1266
SCOTTSDALE, ARIZONA

May 13, 1964

Navajo, Arizona

EASTERN PETROLEUM CO. #32 SANTA FE

NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 28-T20N-R27E., Apache Co., Arizona

Elev. - 5754' Gr. T.D. - 1133' Top Coconino - 1090'
Top Water - 1099' Net Pay - 9' 2 7/8" tubing @ 1133'
SIP - 107#

Point 1. 1/8" orifice After 5 min. - 106.1#, Temp. - 59°F.
" 10 " - 106.1# " - 61°F.
" 15 " - 106.1# " - 63°F.

Point 2. 1/4" orifice After 5 min. - 101.3#, Temp. - 63°F.
" 10 " - 100.4# " - 63°F.
" 15 " - 99.5# " - 63°F.
" 20 " - 98.6# " - 63°F.
" 25 " - 97.4# " - 63°F.
" 30 " - 96.6# " - 64°F.

Note: Acid water apparent - could not get well to stabilize. Eastern gave the well a mud-acid treatment on previous day and swabbed until about 6:00 P.M. then shut it in overnight. A test was attempted about 7:30 A.M. on 5/13/64 with the above results.

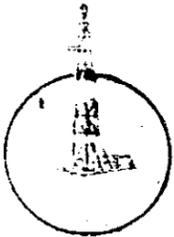
The well was opened and allowed to flow in an attempt to clean out the acid water. After 1 hour & 40 minutes it was still making considerable acid water with no formation water. Decided to let well blow until cleaned. It was again tested in the late afternoon of 5/13/64 but the well would not stabilize. Another attempt was made to test on the morning of 5/14/64 with the same results. On a Pitot Tube test the well made +580 MCFGD.

An attempt was made to test the well again on 5/25/64 but acid water is still present and the well would not stabilize (Reported to S.C. Brown by Mr. Otto Barton by phone)

Witnesses: Otto Barton & Richard Otto -
Kerr-McGee
Henry Fullop & Tony Sneider -
Eastern Petroleum
Silas C. Brown - Arizona Oil
& Gas Cons. Comm.

Silas C. Brown
Silas C. Brown

DENVER OFFICE 320 FIRST NATIONAL BANK BUILDING MA. 5259



EASTERN PETROLEUM CO.
EASTERN DRILLING, INC.

TELEPHONE 38 2404 P. O. BOX 281 - CARMEL ILLINOIS

April 6, 1964

Mr. John Petty
Oil & Gas Conservation Commission
1624 West Adams
Phoenix 7, Arizona

Dear Mr. Petty:

I have enclosed completion reports of the following wells in Apache County:

Eastern-Santa Fe #31 - SE Sec. 29-20N-27E
Eastern-Santa Fe #32 - SW Sec. 28-20N-27E
Eastern-Santa Fe #35 - SW Sec. 27-20N-27E

These wells will be included in a proposed unit, and I believe a bit of comment is necessary to a better understanding of their present status.

SP #31 - Set 2 7/8" @ 1049' - tested 146 MCF through orifice - made 3 attempts to log - hole bridged at various intervals - on 4th attempt was able to get tool in hole and run induction log - ran cement bond log - poor cement job - perforated w/4 holes 1036-37 - received 120' water fill up - attempted to washover 2 7/8" w/4" pipe and failed. Unless we can correct this condition application to drill a new hole will be made. Well presently designated "Incomplete".

SP #32 - Pipe has not been perforated

SP #35 - No log run - lost circulation @ 1062' - no Coconino samples at this interval - squeezed 7 times w/sagel; set 4 1/2" @ 1062' - exact to design hole - casing not perforated. Did receive a fair blow of gas estimated from 50-90 MCF.

Yours very truly,

EASTERN PETROLEUM COMPANY

J. N. Edwards

JNE:mf

Encls.

cc: Santa Fe Pacific Railroad Co.



258

258

Class of Service
This is a **Day** message unless its deferred character is indicated by the proper symbol.

WESTERN UNION

TELEGRAM

W. P. MARSHALL, President

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

87-1201 (4-60)

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

416P PDT MAY 26 64 LB381
DB345 D AMA598 PD DUMAS TEX 26 410P CST
JOHN BAINNISTER
ARIZONA OIL & GAS COMMISSION SUITE 202 1624 WEST ADAMS ST
PHOENIX ARIZ

OUTLINED BELOW PLEASE FIND ANALYSIS OF GAS FROM SAMPLES TAKEN FROM EASTERN PETROLEUM COMPANY WELLS #31 SEC 29, #32 SEC 28, #35 SEC 27 ALL IN T20N R27E APACHE COUNTY ARIZONA WELL #31 ARGON .79 CO2 .89 HELIUM 8.32 NITROGEN 90.00 TOTAL PERCENTAGE 100.00 SPECIFIC GRAVITY .9065 WELL #32 ARGON .79 CO2 .88 HELIUM 8.34 NITROGEN 89.99 TOTAL PERCENTAGE 100.00 SPECIFIC GRAVITY .9063 WELL #35 ARGON .68 CO2 .90 HELIUM 8.34 NITROGEN 90.08 TOTAL PERCENTAGE 100.00 SPECIFIC GRAVITY .9059 THIS INFORMATION FURNISHED AT REQUEST OF HENRY FULOP, PRESIDENT EASTERN PETROLEUM COMPANY

KERR MCGEE OIL INDUSTRIES INC, OTTO BARTON SUPT OIL & GAS

Class of Service
This is a **Day** message unless its deferred character is indicated by the proper symbol.

WESTERN UNION

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DAMA498 ✓
PRODUCTION PAHHANDLE DIVISION SUNDAY TEXAS

#31 29 #32 28 #35 27 T20N R27E #31 .79 CO2 .89 8.32 90.00 100.00
.9065 #32 .79 CO2 .88 8.34 89.99 100.00 .9063 #35 .68 CO2 .90
8.34 90.08 100.00 .9059
(06).



258

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL DEEPEN PLUG BACK

NAME OF COMPANY OR OPERATOR **Eastern Petroleum Company** DATE **Nov. 6, 1963**
Box 291 **Carmi** **Illinois**
 Address City State

DESCRIPTION OF WELL AND LEASE

Name of lease Eastern-Santa Fe Fee	Well number 32	Elevation (ground) See Plat 5758
Well location (give footage from section lines) 1650' N of S.L.; 1650' E of W.L.	Section—township—range or block & survey SW Sec. 28-20N-27E	
Field & reservoir (if wildcat, so state) Navajo Springs	County Apache	
Distance, in miles, and direction from nearest town or post office Approx. 3 1/2 miles SE of Navajo		
Nearest distance from proposed location to property or lease line: 1650 feet	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: -- feet	
Proposed depth: 1200	Rotary or cable tools Rotary	Approx. date work will start Nov. 11, 1963
Number of acres in lease: 640	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)
Plats will be forwarded by L. Greer, Engineer, Holbrook

* Fill in Proposed Casing Program on other side

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.

November 6, 1963
Date

J. N. Edwards
Signature

Permit Number: **258**
 Approval Date: **11/13-63**
 Approved By: *[Signature]*

Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.
 See Instruction on Reverse Side of Form

STATE OF ARIZONA OIL & GAS
 CONSERVATION COMMISSION
 Application to Drill, Deepen or Plug Back

Form No. P-1

File two copies

Effective Feb. 28, 1962.

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.

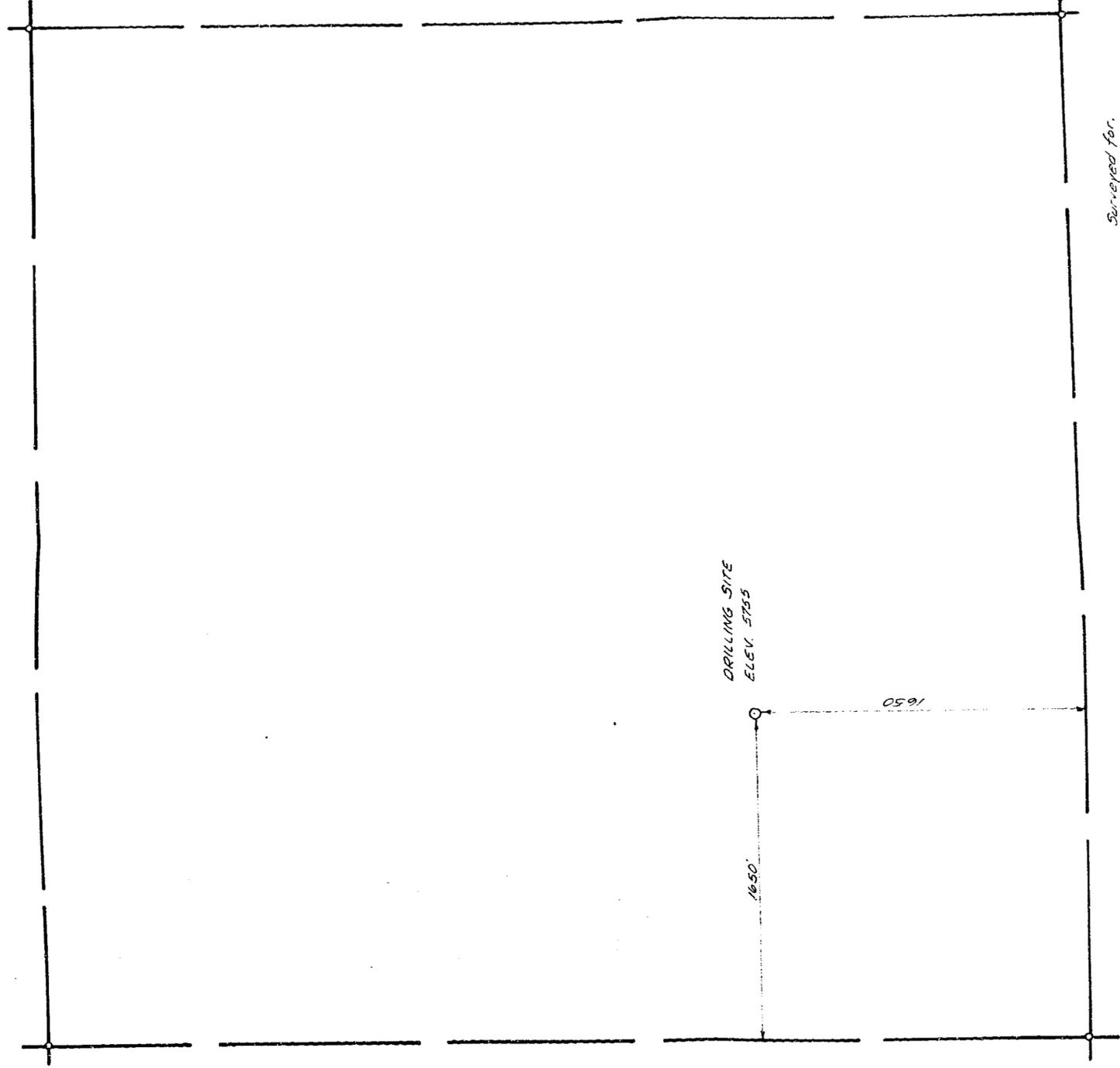
PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
Surface						
8 5/8"		H-40	-0-	90	90	25

**EASTERN PETROLEUM
SANTA FE NO. 32**

SEC. 28 T. 20N., R. 27E.

**DRILLING SITE LOCATION
APACHE COUNTY, ARIZONA**



SCALE 1"=500'

Surveyed for:
EASTERN PETROLEUM
Box 291
Carmi, Illinois

Surveyed by:
LACY C GREER
ENGINEERING CO.
Helbrook, Arizona
November 1953

24 Santa Fe
Petroleum
Sec 28-20N-27E

REGISTERED
SURVEYOR



OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
1645 WEST JEFFERSON, SUITE 420
PHOENIX, ARIZONA 85007
PHONE: (602) 271-5161

June 26, 1978

United States Fidelity and
Guaranty Company
Surety Department
Foster and Messick, Managers
456 N. Meridian Street
Indianapolis, Indiana 46204

Re: Eastern Petroleum Company, Carmi, Illinois
Bond No. 27716 13 3983 65; \$25,000

Gentlemen:

Eastern Petroleum Company has complied with the rules and regulations of the Oil and Gas Conservation Commission of the State of Arizona.

This letter is to authorize your release of Eastern Petroleum Company's above referenced bond.

Very truly yours,

W. E. Allen
Director
Enforcement Section

WEA/vb

cc - Mr. Henry Fullop

LIABILITY UNDER THIS BOND MAY NOT BE TERMINATED WITHOUT WRITTEN PERMISSION OF THIS COMMISSION.

KNOW ALL MEN BY THESE PRESENTS

BOND SERIAL NO. 27716-13-
3953-65

That we: EASTERN PETROLEUM COMPANY

of the County of: White in the State of: Illinois

as principal, UNITED STATES FIDELITY AND GUARANTY COMPANY

and of Baltimore, Maryland
AUTHORIZED TO DO BUSINESS WITHIN the State of Arizona.

as surety, are held and firmly bound unto the State of Arizona in the penal sum as indicated, lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The conditions of this obligation is that whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State, to wit:

(May be used as blanket bond or for single well)

CANCELLED

DATE 6-26-78

NOW, THEREFORE, if the above bounden principal shall comply with all of the provisions of the laws of this State and the rules, regulations and orders of the Oil and Gas Conservation Commission, especially with reference to the requirements of A.R.S. 27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil & Gas Conservation Commission all notices and records required by said Commission, in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, then this obligation is void; otherwise, the same shall be and remain in full force and effect.

Penal sum of TWENTY FIVE THOUSAND AND NO/100 DOLLARS (\$25,000.00)

ATTORNEY-IN-FACT AFFIDAVIT

STATE OR COMMONWEALTH OF Indiana
COUNTY OR CITY OF Marion } ss:

Before me, a Notary Public, personally came Gary R. Peterson known to me, and known to be the Attorney-in-Fact of United States Fidelity and Guaranty Company, a Maryland Corporation, which executed the attached bond as surety, who deposed and said that his signature and the corporate seal of said United States Fidelity and Guaranty Company were affixed by order and authority of said Company's Board of Directors, and that the execution of the attached bond is the free act and deed of United States Fidelity and Guaranty Company.

Given under my hand and seal this 2nd day of November, 1965

DONALD RAY FOWLER
My commission expires May 4, 1969

Donald R. Fowler
Notary Public.

My Commission expires _____

Jud. 876 (9-57)

By: John L. Ginnister

Form No. 2

File Two Copies

Permit No. _____

Operator Eastern Petroleum Co.

Bond Company U.S. F & G Co Amount \$25,000

Bond No. ~~not shown~~ Date Approved 11-12-65
27716-13-3983-65

Permits covered by this bond:

48	348 shut-in	584
80 producing	365	586
88 producing	366 Not Drilled	587
107	464	592
108	504 <small>Trussion #1 Santa Fe</small>	594
109	505 <small>" " WAVA 10 1767</small>	595
150	523	596
152	536	599
155 <small>replaced by #521</small>	537	600
188	547	601
194 producing	561	
206 shut-in	560	
209	565	
218	567	
236 shut-in	568	
237	569	
238	570	
239	576	
234	577	
237	578	
268	579	
284	580	
276	581	
250	582	
282	583	
255 shut-in	584	
258 shut-in	585	
259	586	
273	587	
263 shut-in Prod	588	
264	589	
257	590	
284	591	
207	592	
207	593	
251	594	
252	595	
269	596	
81 producing	597	
289	598	
296	599	

CANCELLED

DATE 6-26-78

... 1978 ...



OFFICE OF
Oil and Gas Conservation Commission

STATE OF ARIZONA
8686 NORTH CENTRAL, SUITE 106
PHOENIX, ARIZONA 85020
PHONE: (602) 271-5161

April 19, 1977

Mr. Warren E. Richardson
Kerr-McGee Corporation
Kerr-McGee Center
Oklahoma City, Oklahoma 73125

Dr. C. F. Swain
Crest Oil Company
Box 57
Alton, Illinois 62002

Mr. J. F. Schlafly
Crest Oil Company
Box 57
Alton, Illinois 62002

Re: Navajo Springs Unit, Apache County, Arizona

Gentlemen:

You are aware that Kerr-McGee Corporation suspended operations on their helium extraction plant located at Navajo, Arizona in February, 1976. This plant was supplied with raw helium from wells in the Pinta Dome Unit and also from two wells in the Navajo Springs Unit, namely: Eastern Petroleum Company's Santa Fe No. 13 located in the NE/4 SW/4 Section 31, T20N, R27E, and Kerr-McGee Barfoot No. 1 located in the NE/4 SW/4 Section 32, T20N, R27E.

Not only has Kerr-McGee Corporation suspended operations of its extraction plant, it has recently plugged all the remaining wells in the Pinta Dome Unit.

Records of the Oil and Gas Commission indicate there are ten wells in the Navajo Springs Unit that are classified as shut in helium wells. Only a few of these wells ever produced or were ever connected to the Kerr-McGee plant or the plant formerly operated by Western Helium.

Mr. Warren E. Richardson
Dr. C. F. Swain
Mr. J. F. Schlafly
April 19, 1977
Page 2

In order to protect the fresh water zones in this area from any possibility of contamination and because there is no market now or in the foreseeable future for any raw helium gas that may remain within the Navajo Springs Unit, Coconino Formation, it is the opinion of this Commission that all remaining unplugged wells in this unit be properly plugged and abandoned.

Mr. Henry Fullop with Eastern Petroleum Company, the operator of the Navajo Springs Unit, has been advised of the Commission's position on this matter. He was first notified by letter and, more recently, by long distance telephone. A response to the letter was never received. Mr. Fullop did indicate by telephone that, at the present time, it would pose a severe financial strain on him to plug these wells.

Unless the Commission can receive some positive assurance within 60 days from the date of this letter that the remaining shut in wells in the Navajo Springs Unit will be properly plugged and abandoned, the Commission will find it necessary to request the bonding company to fulfill their obligations and plug the subject wells.

This letter is addressed to you only for the purpose of acquainting you, as working interest owners in the unit, with the situation as it presently exists and also to inform you of the Commission's position.

Very truly yours,



William E. Allen
Director
Enforcement Section

WEA/vb

cc - Mr. Henry Fullop
Eastern Petroleum Company



EASTERN PETROLEUM CO.
EASTERN DRILLING, INC.

TELEPHONE (818) 382-4104 P.O. BOX 2811 DARNELL, ILLINOIS 62821

September 10, 1974

Mr. W. E. Allen
Oil & Gas Conservation Comm.
4515 North 7th Avenue
Phoenix, Arizona 85013

Re: Navajo Springs Unit

Dear Mr. Allen:

Your letter of September 9 requested that we submit Form 9 for two wells, Crest-Santa Fe #2, Sec. 33-20N-27E and Kiva #1, Sec. 13-20N-28E.

110 560
Yesterday in your office I pencilled in an application for Kiva #1.

Crest #2 is in the Navajo Springs Unit along with these shut-in wells:

Santa Fe #14	-	Section 5-19-27	206
Santa Fe #17	-	Section 4-19-27	236
Crest #7	-	Section 6-19-27	204
Santa Fe #31	-	Section 29-20-27	255
Santa Fe #32	-	Section 28-20-27	258
Santa Fe #35	-	Section 27-20-27	263

As Unit Operator we feel it our obligation to seek approval of the various unit owners before proceeding to plug. You will recall that Nos. 14, 17 and 35 produced about 154,000 MCF before Western Helium Corporation shut down. The best well is #17. At this time it is not known whether Kerr would want to produce it.

I am notifying the several owners today of the Commission's request.

Yours very truly,

EASTERN PETROLEUM COMPANY

J. N. Edwards
J. N. Edwards

JNE:sjn

cc: Mr. Harold E. Uhrig
Foster & Messick, Mgrs.
456 N. Meridian Street
Indianapolis, Indiana 46209

RECEIVED

SEP 18 1974



EASTERN PETROLEUM CO.
EASTERN DRILLING, INC.

TELEPHONE (818) 382-4104 · P. O. BOX 291 · CARMEL, ILLINOIS 62821

September 10, 1974

Kerr-McGee Corporation ✓
Kerr-McGee Center
Oklahoma City, Oklahoma 73102
Attn: John Fisher

Mr. J. F. Schlafly
First Nat'l. Bank Bldg.
Alton, Illinois 62002

Crest Oil Company
P. O. Box 57
Alton, Illinois 62002

Estate of G. R. Barfoot
Ehmann, Olsen & Lane
2500 First Fed. Savings Bldg.
3003 N. Central Avenue
Phoenix, Arizona 85013

Re: Navajo Springs Unit
Shut-in Wells

Gentlemen:

There are seven shut-in wells in the Unit; Eastern-Santa Fe Nos. 14, 17, 31, 32 and 35 and Crest-Santa Fe Nos. 2 and 7.

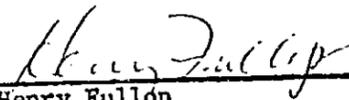
We have been advised by the Oil & Gas Conservation Commission that unless these wells are activated and produced the Commission will of necessity order all wells plugged and abandoned. The Commission is pressing this issue very hard. The best well, No. 17, produced around 70,000 MCF in 1972 and 1973.

On August 15 we notified the Commission that it was possible these wells may be required to sustain the normal take in the future. However, if arrangements are not made to produce it is our opinion that we will be forced to plug them.

Before proceeding further with the Commission we need to know your decision. Please give us your views or decision within seven days of receipt of this letter.

Yours very truly,

EASTERN PETROLEUM COMPANY
Unit Operator


Henry Fullop

RECEIVED

SEP 12 1974

O & G CONSV. COMM.

228
HF:ajm



OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271-5161

June 21, 1974

CERTIFIED MAIL

Mr. Henry Fullop
Eastern Petroleum Company
P. O. Box 291
Carmi, Illinois 62821

Re: Navajo Springs Area

Dear Mr. Fullop:

This Commission has requested several times to be advised of your plans for further operations on your unplugged wells in the Navajo Springs area.

Mr. Edwards submitted some Sundry Notices and Reports on Wells, Form 25, indicating that you planned to plug some of the wells. Some others were to be transferred to Dan Schwetz. Still others, some of which have never produced commercially, apparently were to maintain their present status.

You are aware that several wells in this area have never indicated any ability to produce and others that are carried as shut-in helium wells have never produced commercially and no attempt to produce some of these wells was ever made.

At a meeting of the Commission on this date we were instructed to direct you to properly plug, by August 31, 1974, all wells in this area not now producing. Prior to plugging any well, the plugging program must be approved by the Commission and all operations relating to the plugging and abandonment will be witnessed by a member of the Commission staff.

Within this time frame, this Commission will consider any feasible plan that you might have to place whatever wells that are capable of producing back on production.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

cc - J. N. Edwards and U.S.F. & G.

258



OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271-5161

April 12, 1974

CERTIFIED MAIL

Mr. Henry Fullop
Eastern Petroleum Company
P. O. Box 291
Carmi, Illinois 62821

Re: Navajo Springs Area

Dear Mr. Fullop:

We have received Mr. Edward's letter dated March 12, 1974 together with Form 25, Sundry Notice and Reports, on 16 wells in the Navajo Springs area. We are aware that a number of your wells are in the Navajo Springs Coconino Unit. According to our records, several of the wells that are in the Unit have never produced except during testing and are being carried as shut-in helium wells. A number of wells outside the Unit have never produced, and your completion reports indicate the production on the potential test to be zero or TSM. Other wells have been taken off production for various reasons.

The possibility of some of these wells ever being produced commercially again appears negligible. As you know, Western Helium has not taken gas from your wells since December 31, 1973. This company is now in the process of dismantling and moving their plant out of the area. There is a possibility that Kerr-McGee might arrange to take gas from some of the wells in the Navajo Springs Unit as they are now doing from your Santa Fe No. 13 and Barfoot.

It is the opinion of this Commission that all non-commercial wells in the Navajo Springs area, whether in the Unit or not, should be permanently plugged and abandoned as quickly as possible. These wells would include, within the Navajo Springs Coconino Unit, the Crest Santa Fe No. 2, Santa Fe Nos. 31 and 32, and the Reese No. 2. No production has been reported from any of these wells. Also to be plugged should be your Ancon Santa Fe Nos. 21 and 21-1A, Connelly KM State No. 1, Merde No. 1 and all the non-producers that have been drilled within the past three years. Your Merde No. 2 must be plugged immediately. The hole in the casing at approximately 750' has never been repaired and the well is flowing water. Also your Dreck No. 1 has been reported plugged and abandoned, a copy of your plugging report is attached. It is possible that this well has been partially plugged, however there is definitely no plug in the top of the casing and fluid is several hundred feet from the surface. The dry hole marker was never installed. It is on

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Mr. Henry Fullop
April 12, 1974
Page 2

location but the casing had a bucket inverted over the open end. The hole you drilled on the original location for the Chambers No. 1 for a "water well" is open with wire line and other junk around the open hole. Mr. Tom Pelton, the owner or holder of the surface rights of the land on which the two Chamber holes are located has expressed the desire to assume responsibility of both the holes for water wells. Mr. Pelton's address is P. O. Box 7, Sanders, Arizona 86512, phone: (602) 688-2930. Our Form No. 24, when executed by Mr. Pelton, will satisfy our requirements. Also Wayne Wallace has some interest in some of the holes on his place for use as water wells.

Recently we found a well some 700' + in a northerly direction of the Merde No. 2, a copy of a photograph is attached. We have no records of a well being drilled at this location. Any information that you could give us on this well would be appreciated. It is being used as a water well.

Either Mr. Bannister or myself will be happy to discuss the above mentioned situation with you. However, we are determined to have the existing conditions in the area brought into complete compliance with the rules and regulations of the Oil and Gas Conservation Commission in the very near future.

We would appreciate your thoughts on the above.

Very truly yours,



W. E. Allen, Director
Enforcement Section

WEA/rlb

Encs.

cc John Fisher, Kerr-McGee, Oklahoma
Richard J. Gasdaska, Western Helium, Pennsylvania
C. F. Swain, Crest Oil, Illinois
Jess Edwards, Eastern, Illinois
U.S.F. &G., Indiana

2/8



OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271-5161

January 8, 1974

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

Re: Crest Oil Santa Fe No. 2
NE/SW Sec 33-20N-27E
Permit #110

Santa Fe Fee No. 24
SE/NW Sec 24-20N-27E
Permit #536

Ancon 21-1A
Sec 31-20N-28E
Permit #537

Santa Fe Fee Kiva No. 1
NE/SW Sec 13-20N-25E
Permit #560

Santa Fe Fee 6x-1
SE/NW Sec 25-20N-28E
Permit #565

Chambers Santa Fe No. 1
NE/SW Sec 21-21N-28E
Permit #567

Sanders No. 2 Santa Fe Fee
NE/SW Sec 15-21N-25E
Permit #568

Szar State No. 1
NE/NW Sec 36-20N-27E
Permit #578

Merde Indian #1
Sec 30-20N-25E
Permit #592

Merde No. 2
SW/SE Sec 30-20N-28E
Permit #596

Santa Fe Kiva #2
NE/SW Sec 24-20N-28E
Permit #599

Beacon No. 1
Sec 29-20N-29E
Permit #600

Santa Fe Fee No. 1-11
NW/SE Sec 11-20N-28E
Permit #601

Crest Oil Company #7 Santa Fe
SW/NE Sec 6-19N-27E
Permit #204
Santa Fe Fee #31
C N/2 SE/4 Sec 29-20N-27E
Permit #255

Santa Fe Fee #32
SW/NE/SW Sec 28-20N-27E
Permit #258

Dear Mr. Fullop:

As we have previously advised, semi-annual status reports are required on the above referenced wells. This report was due in this office

Page 2
Mr. Robert Fullop
January 8, 1974

January 1, 1974. Please forward these reports as quickly as possible,
and indicate any work that you anticipate performing on these wells
within the next six months.

Please submit Completion Reports for your Indian Allotted Merde No. 1
and Santa Fe Beacon No. 1.

Very truly yours,


W. E. Allen, Director
Enforcement Section

WEA/rlb

Encs.

258

June 5, 1969

Mr. J. N. Edwards
Eastern Petroleum Company
P. O. Box 231
Carmi, Illinois 62821

Re: Navajo Springs Unit Wells

Dear Mr. Edwards:

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

cc: Mr. Henry Fullop, Eastern Petroleum Company



EASTERN PETROLEUM CO.
EASTERN DRILLING, INC.

TELEPHONE 58 2804 • P. O. BOX 291 • CARMEL, ILLINOIS

June 3, 1969

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

Re: Capacity Tests of Gas Wells

Dear Mr. Bannister:

Reference is made to Mr. Lambert's letter of May 22 relative to annual testing of gas wells under Rule 401.

You will recall that last year this requirement was waived for Kerr-McGee's Pinta Dome Unit for various reasons and for Navajo Springs. Please refer to my letter of July 5, 1968 and yours of June 21.

Is there any particular reason why this cannot be waived this year. Please advise at an early date.

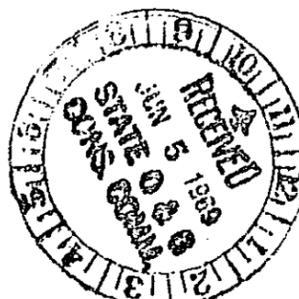
Didn't take long for you to get the Corporation Commission on the ball. Thanks.

Yours very truly,

EASTERN PETROLEUM COMPANY

J. N. Edwards
J. N. Edwards

JNE:sjn



OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
ROOM 202
1824 WEST ADAMS
Phoenix, Arizona 85007
PHONE: 271-5161

X-Lambert
X-Chano

May 22, 1969

Mr. Henry Fullop
Eastern Petroleum Company
P. O. Box 291
Carmi, Illinois 62821

Re: Eastern Santa Fe #13
Eastern Santa Fe #14
Eastern Santa Fe #17
Eastern Santa Fe #31
Eastern Santa Fe #32
Eastern Santa Fe #35
Eastern Ancón Santa Fe #21
Eastern Reese #2
Kerr-McGee Barfoot State #1
Crest Santa Fe #2
Crest Santa Fe #7

Permit #194
Permit #206 } x
Permit #236 }
Permit #255 }
Permit #258 }
Permit #263 }
Permit #234 } x
Permit #348 }
Permit #238 }
Permit #110 }
Permit #204 }

Dear Mr. Fullop:

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.

Page 2
Mr. Henry Fullop
May 22, 1969

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.
copy to Mr. J. N. Edwards

28

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 Jan 11-22-65

258

June 21, 1968

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

Dear Mr. Edwards:

In reponse to your request of June 10, 1968, this letter constitutes permission from this commission to exempt annual gas Capacity Test on the Ancon Santa Fe #21 well and the following shut-in helium wells in Navajo Springs Unit:

<u>Well No.</u>	<u>Tract No.</u>	<u>Location</u>
Santa Fe #14	III	5-19-27
Santa Fe #17	IV	4-19-27
Santa Fe #31	X	29-20-27
Santa Fe #32	XI	28-20-27
Santa Fe #35	XII	27-20-27
Reese #2	VII	1-19-26
Crest S.F. #7	II	7-19-27
Crest S.F. #2	V	33-20-27

Very truly yours,

John Bannister
Executive Secretary
ir

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EASTERN PETROLEUM CO.
EASTERN DRILLING, INC.

June 10, 1968

Mr. John Bannister
Executive Secretary
Oil & Gas Conservation Comm.
Room 202, 1624 West Adams
Phoenix, Arizona 85007



Re: Back-Pressure Tests

Dear Mr. Bannister:

In accordance with your letter of June 6, 1968, we are applying for exemption from testing requirements for the following shut-in helium wells in Navajo Springs Unit:

<u>Well No.</u>	<u>Tract No.</u>	<u>Location</u>
Santa Fe #14	III	5-19-27
Santa Fe #17	IV	4-19-27
Santa Fe #31	X	29-20-27
Santa Fe #32	XI	28-20-27
Santa Fe #35	XII	27-20-27
Reese #2	VII	1-19-26
Crest S.F. #7	II	7-19-27
Crest S.F. #2	V	33-20-27

also,

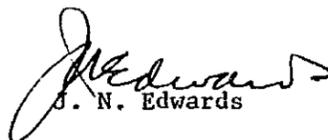
Ancon S.F. #21 31-20-28

Inasmuch as we have no plans at present to produce any of these wells we feel no useful purpose would result from such tests.

Test results of Santa Fe #13, Sec. 30-20-27 and Barfoot-State #1, Sec. 31-20-27 will be forwarded within the prescribed time.

Yours very truly,

EASTERN PETROLEUM COMPANY


J. N. Edwards

OK
257
JNE: sjn

June 6, 1968

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

Attention: Mr. Henry Fullop

Gentlemen:

Your attention is referred to our letter of May 13, 1968 and Directive D-2-68 dated May 1, 1968, concerning capacity testing of all gas and/or helium wells.

As you are aware, you as operator of the Navajo Springs Unit are responsible for compliance on all wells in the Unit, both producing and non-producing (shut-in).

Should good and sufficient reasons be stated for deferment of this testing on specified wells, this Commission would give due consideration.

Very truly yours,

John Bannister
Executive Secretary
mr
enc

270

COPY

ARKANSAS LOUISIANA GAS COMPANY

Shreveport, Louisiana,

August 14, 1964

Arizona Oil and Gas Commission
1624 West Adams
Phoenix, Arizona

Attention: Mr. John Bamister

Gentlemen:

In accordance with your request to receive the test results on the wells in the Navajo Springs Field, Apache County, Arizona, we are enclosing herewith, in duplicate, the results of these tests.

Each well was tested at what we speak of as a maximum rate of flow - that is, the maximum rate at which we produced the well, and the rate of flow where the wellhead pressure approached 100 pounds. This is indicated under Column 2 where it says, "Well Testing Pressure-PSIG." You will note that a volume of 1000 MCFD was measured from eight wells, testing these wells from 15 to 18 1/2 hours each. These are our field calculations, and there may be a slight change in the total volume when the final calculations are determined. The volumes of gas in MCFD have

been corrected to indicate the standard conditions of measuring gas at 14.73 pressure base.

I would like to take this opportunity to express to you how much I appreciate you and your staff turning over the records of the Commission Office and the assistance which was given to me on my trip to Phoenix. If the volumes are any different on our final calculations, I will forward a copy to your office.

Yours very truly,

ARKANSAS LOUISIANA GAS COMPANY

(signed)

W. E. BROWN

President

WEB:kt
Enclosures

XXXXXXXXXX
XXXXXXXXXXXX

November 18, 1963

Mr. Henry Fullop, Pres.
Eastern Petroleum Company
P.O. Box 291
Carmi, Illinois

Re: Eastern Petroleum #32,
Eastern-Santa Fe Fee,
Sec. 28-20N-27E &
Eastern Petroleum #33,
Eastern-Santa Fe Fee,
Sec. 30-20N-27E

Dear Mr. Fullop:

Attached find approved copies of your application
for permit to drill the two above listed projects.
Also we're sending an extra location plat of
Eastern Petroleum #32 #33.

Hoping you have the best of luck on them. I am

Sincerely,

John E. Petty
Acting Executive Secretary

JEP:lj
Encl.

EASTERN PETROLEUM CO.
ACCOUNT NO. 2

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

INVOICE		DESCRIPTION	TOTAL AMOUNT	DEDUCTIONS		NET AMOUNT
DATE	NO.			DISCOUNT	FREIGHT	
		Application for permit to drill Eastern-Santa Fe #32, Sec. 28- 20N-27E, Apache Co., Arizona.				\$25.00