M-d

Kerr-McGee Oil Ind. Inc. State #36
NW/4 SE/4 Sec 34-20N-26E Apache County

[redacted]

COUNTY Apache Field ~~AREA~~ Pinta Dome LEASE NO. State 2113

WELL NAME Kerr-McGee 2 State [redacted] (Formerly 3 Macie [redacted])

LOCATION NW SE SEC 34 TWP 20N RANGE 26E FOOTAGE 2175' FSL 1700 FEL'

ELEV 5772'* GR 5779'* KB SPUD DATE ? 1956 STATUS P+A 4-12-77 COMP. DATE 10-27-56 TOTAL DEPTH 2502'

per logs & Com. Rept. *Agrees with USGS 7½' quad per JNC

CONTRACTOR He well

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH
~~7"~~	~~1227'~~	~~195 sx~~	~~NA~~
~~8 5/8~~	~~286~~		

DRILLED BY ROTARY x

DRILLED BY CABLE TOOL x

PRODUCTIVE RESERVOIR Coconino 1000-1020 1020-1124

INITIAL PRODUCTION 2400 MCFGPD Helium Well 8% Helium S.I. SIP;99#

FORMATION TOPS	DEPTHS	SOURCE L.L.	SOURCE E.L.	REMARKS

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS
GRN; Microlaterlog	1120-1124 1000-1020	
GR; Elec-Laterlog, Temp. ~~Survey~~		

SAMPLE LOG
SAMPLE DESCRP.
X SAMPLE NO. T 438
CORE ANALYSIS
DSTs
X P - 305, 562

REMARKS This well was initially drilled under permit #29 issued 8-8-55 to the Apache Oil & Helium Corporation. Kerr McGee took over ~~the operation under permit #36 issued 10-1-56.~~

APP. TO PLUG X
PLUGGING REP. X
COMP. REPORT x

WATER WELL ACCEPTED BY

BOND CO. Firemen's Ins. Co. BOND NO. 188-98-10-528

BOND AMT. $ 25,000 CANCELLED DATE ORGANIZATION REPORT x

FILING RECEIPT 32885 LOC. PLAT x WELL BOOK x PLAT BOOK x

API NO. 02-001-05134-1 DATE ISSUED 10-1-56 DEDICATION All

PERMIT NUMBER 36

(over)

10

STATE LAND DEPARTMENT
STATE OF ARIZONA

Form O & G 52

Form Prescribed Under Oil and Gas Conservation Act of 1951
WELL COMPLETION REPORT
(File in Duplicate)

SEE ATTACHED LETTER

Operator Kerr-McGee Oil Ind., Inc. Field Wildcat
Street P.O. Box 337 Pool
City Sunray, State Texas County
Lease Name Macie Well No. 3 Acres in Unit 320
Location Apache County, Arizona
NE-NW-SE Sec. 34 Twp. 20N Rge. 26E
Elevation DF 5779' GR 5772' Electric Log Run Gamma Ray, Neutron 10-23 1956
Number of Crude Oil Producing Wells on this Lease, including this well
Has Authorization to Transport Oil or Gas from Well, Form O&G 57 been Filed?

NO OFFICIAL COMPLETION GAUGE- Shut in Gas Well

Date Test Commenced 19 Hour M. Date Test Completed 19 Hour M
Length of Test Hours Minutes
For Flowing Well:
Flowing pressure on Tbg. lbs./sq.in.
Flowing pressure on csg. lbs./sq.in.
Size tbg. in. No. ft. run
Size choke in. Type choke
Length in. Shut in pressure 99.1
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? If jetted, used cu. ft. gas per bbl.oil. Result of this test (bbls. net oil per 24 hrs.) (100% tank tables.)
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 ~~80~~ 16 From ~~1000'~~ 1120' To ~~1020'~~ 1124' Date Perforated
Date well Spudded Unknown 1955, Date Well Completed 27 October 1956
Top Pay 1000 Ft. Total depth of well 2502 Ft. P.B. to 1174'

CASING LINER AND TUBING RECORD

String	Size	Wt./Ft.	Name and Type	Amount Ft.	Amount In.	Depth Set at	Perforated From	Perforated To
Surface	8 5/8"		Lapweld			286'		
Production	7"	20#	H-40	1220		1227'	1120'	1124'
							1000'	1020'

CEMENT AND TESTING RECORD

Size of Hole	String	Where Cement Placed	No. Sacks of Cement	Method Used	Pressure Applied in Testing	Hardness of Cement Drilled	Type of Cement
	Surface	None					
9 5/8"	7" Prod.	350 to 1230	195		~~500#~~	~~Good~~	~~Common~~

CHEMICAL OR SHOOTING RECORD BEFORE COMPLETION

Size	Chemical or	Quantity	Date	Depth From	Depth to

AFFIDAVIT

I, Otto C. Barton, 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.

36

Otto C. Barton
Representative of Company

Subscribed and sworn to before me this 17 day of November 19 56
Moore County, ~~Ariz.~~ Texas
My Commission expires: 6-1-57

Notary Public

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	2	PINTA DOME/Coconino Sand

Location of Well	Sec-Twp-Rge or Block & Survey	County
NE-NW-SE Section 34-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?
Apache Oil & Helium Co.	Yes-Helium	N/A	2,300 (8.89% He)	No

Date plugged:	Total depth	Amount well producing when plugged: Oil (bbls/day)	Gas (MCF/day)	Water (bbls/day)
4/12/77	2502'	-0-	41	68.6

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"	286'	0	286'	---	EZSV Retainer at 969'
7 "	1227'	0	1227'	---	------

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 was P & A by setting 7" EZSV cement retainer at 969' with 80 sxs. Class "B" Cement pumped below retainer and 239 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

RECEIVED APR 25 1977 D & G CONS. COMM.

Lynn Kelley — Signature

Permit No. 36

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

Form No. 10

32 × 1

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. 2

SURVEY T-20N, R-26E SECTION 34 COUNTY Apache

LOCATION

TYPE OF WELL Gas (Helium) (Oil, Gas or Dry Hole) TOTAL DEPTH 1227'

ALLOWABLE (If Assigned) None

LAST PRODUCTION TEST OIL 0 (Bbls.) WATER 68.6 (Bbls.)

GAS 41 (MCF) DATE OF TEST 9-30-74

PRODUCING HORIZON Coconino Sand PRODUCING FROM 1021' TO 1050'

1. COMPLETE CASING RECORD

Surface - 8-5/8" - cemented to surface.

Production - 7" 20# - cemented at 1227' w/195 sx Common Cement w/6% Gel & 1/4# Flocele/sx.

Top of cement at 350'.

PBTD 1100'.

2. FULL DETAILS OF PROPOSED PLAN OF WORK

1. Pull tubing.
2. Set cement retainer at 970'. Squeeze 80 sx cement below retainer.
3. Equalize 50 sx cement from 970' to 770'.
4. Pull tubing.
5. Fill casing to surface with cement (189 sx).
6. 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

Name: C. J. Breeden *C J Breeden*

Title: District Manager

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

Date: March 1, 1977

Date Approved 3-7-77

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By: *W E Allen*

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

Form No. 9

Permit No. 36

32 x

Letter from Rob M. Collier
Acting Chief
Western Mapping Center
Topographic Div.
345 Middlefield Rd.
Menlo Park, Calif. 94025
Dated: October 3, 1974

NAVAJO SPRINGS

Well	Elevations Photog.	Elevations Bull.185	Difference	Remarks
Eastern 21 (234) 20n-28e 31	5853	~~5832~~	-21	Well identified at end of road on photo.
OK → Western (552) | Indian 20n-28e-30	5818 gl	~~5800~~	-18	Bulletin 185 position would place well on opposite side of road.
CREST 471 | Santa Fe ~~Eastern 2 (547)~~ 20n-27e-25 660FS-660FEL	5821	~~5773~~ 5810 agree	~~-48~~	Image on photo at end of road and pipe line.

NAVAJO SOUTH

Well	Photog.	Bull.185	Difference	Remarks
Kerr-McGee 2 (39) 20n-26e-35 660 FNL-1320FWL	± 5668* 5679KB	~~5662~~ gl	-6	Well identified at end of road.
Kerr-McGee (36) 20n-26e-34 2175 FSL-1700FEL	± 5779* GL	~~5772~~ gl	-7	Well identified at end of road.
Kerr-McGee (10) 20n-26e-33 330FSL-2310FEL	± 5743* GL	5743 gl agrees	0	Well identified at U-bend in road.
Linehan (136) 20n-26e-21 330FS-2310FE	± 5605* GL	5600 gl	-5	1500 feet from BM.
Kerr-McGee (37) 19n-26e-4 2310FSL-1650FEL	± 5770*	~~5753~~	-17	Well identified at end of road.
Kerr-McGee 1 (167) 19n-26e-14 500FSL-1320FWL	± 5741* gl	5760	+19	Located in a small clearing 350 feet off road.
Kerr-McGee 1A (177) 19n-26e-14 500FSL-1290FWL	Not Plotted	5776 5738		This point is 100 feet down slope from 167 yet elevation indicates it is higher.

* Interpolated

The "Remarks" column gives justification for our confidence in the fieldman's location of the wells.

32 ×

JNDRY NOTICES AND REPORTS ON WE

Operator Kerr-McGee Corporation

OIL ☐ GAS WELL ☒ OTHER ☐ (Specify)

Name State #2

Location NW/4, SE/4

Sec. 34 Twp. 20N Rge. 26E County Apache, Arizona.

Federal, State or Indian Lease Number, or lessor's name if fee lease

5. Field or Pool Name Pinta Dome (Coconino)

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	MONTHLY PROGRESS	☐
FRACTURE TREAT	☐	DIRECTIONAL DRILL	☐	FRACTURE TREATMENT	☐	REPAIRING WELL	X
SHOOT OR ACIDIZE	☐	PERFORATE CASING	☐	SHOOTING OR ACIDIZING	☐	ALTERING CASING	☐
REPAIR WELL	☐	CHANGE PLANS	☐			ABANDONMENT	☐
(OTHER)			☐	(OTHER)			☐

(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.)

Set cast iron bridge plug at 1100' in 7" casing, dumped 2 sxs calseal on bridge plug. Plug back TD 1095'. Perforated 1021 to 1050 with 4 holes per ft. Job completed 2/20/70. Well turned back in line.

RECEIVED MAR 5 1970 STATE O & G CONS. COMM.

8. I hereby certify that the foregoing is true and correct.

Signed O. C. Barton Title Production Superintendent Date 3/3/70

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports On Wells
File Two Copies
Form No. 25

Permit No. 36

32 x

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Kerr-McGee Corporation

2. OIL WELL ☐ GAS WELL ☒ OTHER ☐ (Specify)

3. Well Name State #2

Location NW/4, SE/4

Sec. 34 Twp. 20N Rge. 26E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease

5. Field or Pool Name Pinta Dome (Coconino)

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF		PULL OR ALTER CASING		WATER SHUT-OFF		MONTHLY PROGRESS	
FRACTURE TREAT		DIRECTIONAL DRILL		FRACTURE TREATMENT		REPAIRING WELL	
SHOOT OR ACIDIZE		PERFORATE CASING	X	SHOOTING OR ACIDIZING		ALTERING CASING	
REPAIR WELL	X	CHANGE PLANS				ABANDONMENT	
(OTHER)				(OTHER)			

(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.)

Attempt a plug off or reduction in water production by setting a CI Bridge Plug at approximately 1100' and dumping 2 sxs Cal Seal on top to plug off existing perforations from 1120-24. Then perforate additional interval from 1021' to 1050' w/4 jets/ft. This would give a total perforated interval from 1000' to 1050'.

8. I hereby certify that the foregoing is true and correct.

Signed O. C. Barton Title Production Supt. Date 2/10/70

O. C. Barton

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports On Wells
File Two Copies
Form No. 25

RECEIVED FEB 11 1970 STATE O & G CONS. COMM.

Permit No. 36

AO & GCC-2 JIF-1
CJB-1 R-Williams, Burkett, WRF

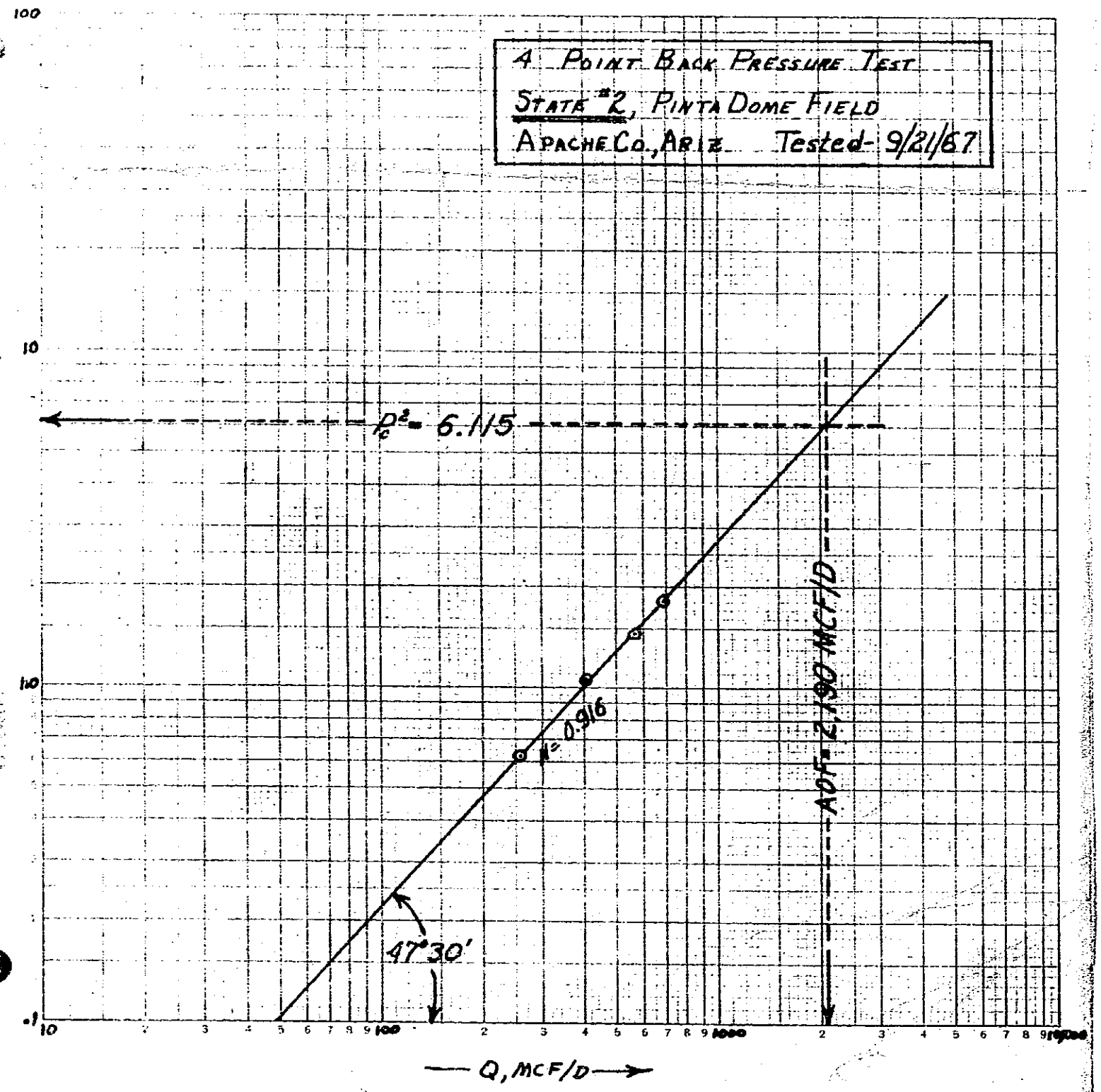
32 × 1

KERR-McGEE CORPORATION EXHIBIT NO. 6

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

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	N.M.	N.M.
I	State A-A (State 4)	99.4	96.0	92.80	89.4	86.1	N.M.	77.2	N.M.	N.M.	N.M.
II	State 1-28	98.8	95.6	92.43	89.3	85.8	78.6	76.8	73.9	64.5	59.5
III	Fee 1	99.3	95.5	92.20	89.2	85.6	78.5	77.0	73.1	64.4	59.4
IV	State 3-A (State 3)	99.1	95.4	92.20	89.0	81.2	N.M.	77.7	73.2	64.4	59.3
V	State 2	99.1	95.5	92.15	89.0	85.6	78.5	76.7	73.0	64.3	[illegible]
VI	State 1	99.1	95.4	92.19	88.7	85.4	78.5	77.0	73.1	64.4	59.3
VIII	Fee 2	99.3	95.7	92.45	89.2	85.8	78.7	77.1	73.3	64.5	59.1
III	State 1-2	99.6	96.7	93.85	91.2	N.M.	83.2	81.6	77.1	68.4	[illegible]
II	State 1-10	99.6	96.5	N.M.	N.M.	N.M.	83.0	81.6	77.0	67.0	63.[illegible]
	Averages	99.3	95.8	92.53	89.4	85.1	79.9	78.1	74.2	65.4	60.[illegible]

N.M. - Not measured.


4 POINT BACK PRESSURE TEST
STATE #2, PINTA DOME FIELD
APACHE CO., ARIZ. Tested- 9/21/67
$P_c^2 = 6.115$
AOF = 2,190 MCF/D
n = 0.916
47°30'
$(P_c^2 - P_w^2) \times 10^{-3}$
Q, MCF/D
100
10
1.0
.1
10
100
1000

GAS WELL OPEN FLOW POTENTIAL TEST REPORT

4-POINT TEST

Test: Initial ☐ Annual ☒ Special ☐

Field	Reservoir	Test Date
Pinta Dome	Coconino Sand	9-21-67

Operator	Lease	Well No.
Kerr-McGee Corporation	State	2

County	Location	Completion Date	Total Depth	T/Pay	Producing Interval
Apache	NE - NW - SE Section 34, 20N, 26E	10-27-56	1174' PB	994'	994'-1124'

Producing Thru TBG.	CSG.	Reservoir Temperature °F	Wellhead Temperature °F	CSG. Size	Wt/Ft.	I.D.	Set @
	X		82	7"	20#	6.456	1227'

TBG. Size	Wt/Ft.	O.D.	I.D.	Set @	Gas Gravity (Separator)	Avg. Pred. Length (L)	GL	Gas-Liquid Hydrocarbon Ratio MCF per Bbl.	Gravity of Liquid (API)
					0.909	1059	963		

Pipeline Connection	Type Taps
Kerr-McGee Corporation	Flange
Multiple Completion (Dual or Triple)	Type production from each zone

OBSERVED DATA

Flow Data

No.	Time of Flow Hours	(Line) Size	(Orifice) Size	Press. psig	Diff. h w	Tubing Press. psig	Casing Press. psig	Flowing Temp. °F
SI	3			Roots-PSIG			66.4	
1.	1	4	2½	4.60 41.3	1.90		62.3	81.0
2.	1	4	2½	4.60 41.7	3.00		59.3	79.5
3.	1	4	2½	4.60 41.7	4.19		56.5	79.3
4.	1	4	2½	4.60 42.2	5.10		53.8	76.7

FLOW CALCULATIONS

No.	Coefficient (24 Hr.)	$\sqrt{h_w p_m}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q MCF/D
					In coefficient		
1.	30.070	8.74	53.1	0.9804		1.0000	257.7
2.	30.070	13.80	53.5	0.9817		1.0000	407.4
3.	30.070	19.27	53.5	0.9819		1.0000	569.0
4.	30.070	23.46	54.0	0.9843		1.0000	694.4

$P_c = 78.2$ psia $P_c^2 = 6.115$

PRESSURE CALCULATIONS

$F_c = 0.4430$; $1-e^{-s} = 0.068$

	P_w/P_t (psia)	P_t^2	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2 \times 1-e^{-s}$	P_w^2	$P_c^2 - P_w^2$	Cal. P_w	P_w/P_c
1.		5.491	.114	.0130	.0009	5.492	0.623	74.1	.9476
2.		5.055	.180	.0324	.0022	5.057	1.058	71.1	.9092
3.		4.665	.252	.0635	.0043	4.669	1.446	68.3	.8734
4.		4.303	.308	.0949	.0065	4.310	1.805	65.7	.8402

Absolute Potential: 2,190 MCF/D n = 0.916

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Engineer of the Kerr-McGee Corp. (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.

RECEIVED OCT 11 1967 STATE O & G CONS. COMM.

E. C. Baird, Jr.
Signature

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION

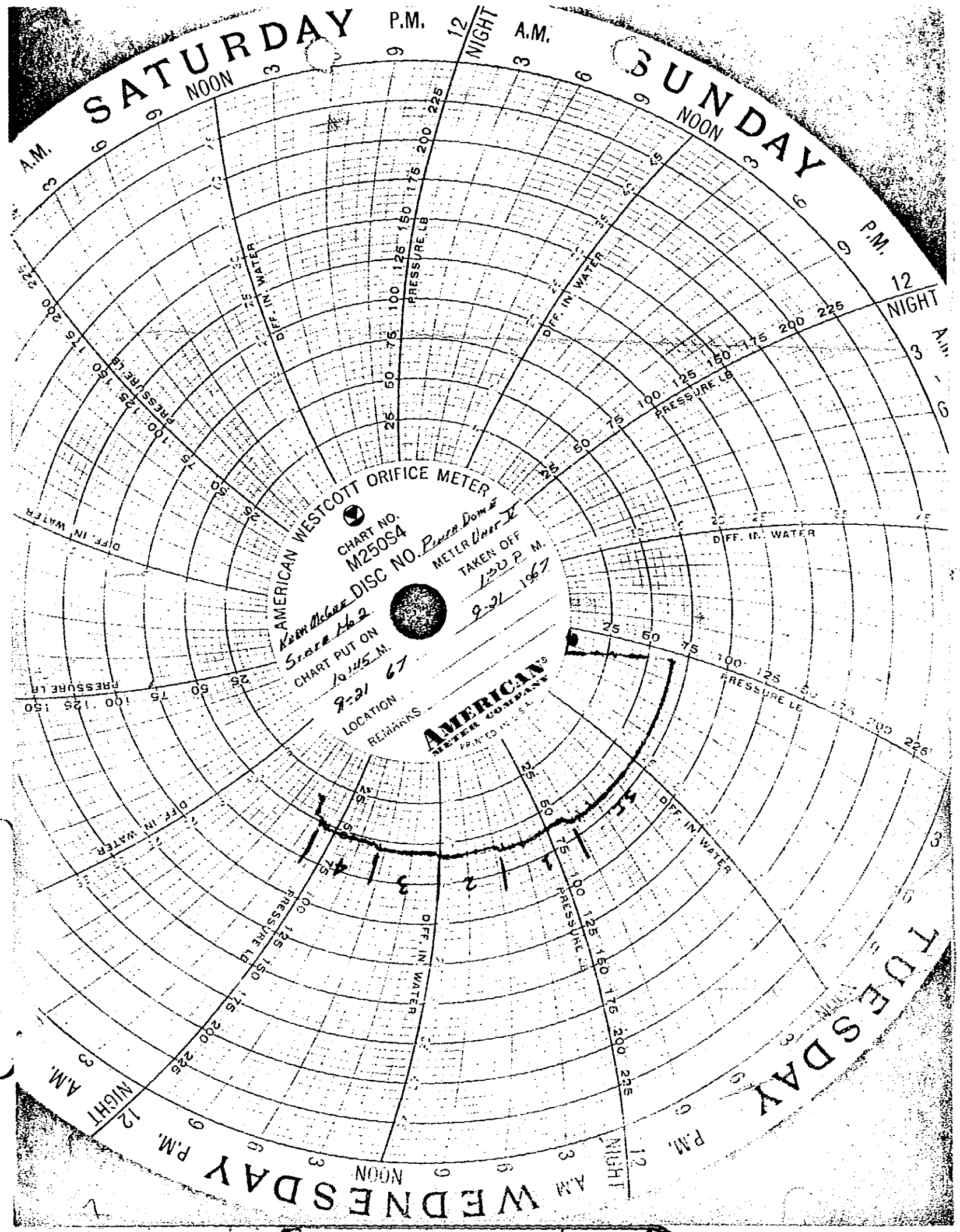
Gas Well Open Flow Potential Test Report (4-Point Test)

Form No. ~~G-1~~ 18 File two copies

Effective _____, 19____

36

32 x


SATURDAY
SUNDAY
MONDAY
TUESDAY
WEDNESDAY
A.M.
P.M.
NOON
NIGHT
DIFF. IN WATER
PRESSURE LB
AMERICAN WESTCOTT ORIFICE METER
CHART NO.
M250S4
DISC NO.
METER
TAKEN OFF
CHART PUT ON
LOCATION
REMARKS
AMERICAN
METER COMPANY

DISTRICT NO. 10

~~RAILROAD COMMISSION OF TEXAS~~
OIL AND GAS DIVISION
MULTI-POINT BACK PRESSURE TEST
FOR GAS WELL

FORM GWT-10

Company Kerr-McGee Oil Industries, Inc. Lease State #2 Well No. 2
New Well xxx Retest _____ Date of Test 24 October 19 56
Field Pinta County Apache Acres 320
Sec. 34 ~~Blk.~~ 20N ~~Sur.~~ 26E Loc. _____ Conn. _____
Casing 7" Wt. 20# I.D. 6.456 Set at 1174 Perf. 1120-24' To 1000-20'
Liner _____ Wt. _____ I.D. _____ Set at _____ Perf. _____ To _____
Tubing _____ Wt. _____ I.D. _____ Set at _____ Perf. _____ To _____
Gas Pay From 1000 To 1124 L 1062 G 0.901 GL 957 Barometric 12.0
e^s 1.105 F_d 0.5016 Well Shut In 72 Hours Before Test
Size of Prover 2" Size of Meter Run _____ Type of Connection _____
REMARKS: _____

OBSERVED DATA

RUN NO.	SIZE METER RUN OR PROVER ORIFICE	METER PRESSURES STATIC Psig	Pm Psia	DIFFERENTIAL Inches-Roots	FLOW TEMP	WELLHEAD WP Psig	Pw Psia	DURATION OF FLOW IN HOURS
1					68			
2								
3								
4								
5								

FLOW CALCULATIONS

RUN NO.	COEFF. "C" (24 HR.)	h_wP_m	$\sqrt{h_wP_m}$	WORKING PRESSURE ON PROVER Psig	Psia	FLOW TEMP. FACTOR F_{tf}	GRAVITY FACTOR F_g	FLOW RATE $Q=M^2$cfd @ 14.65
1	1/2	5.6530		90.6	102.6	(.81)		470
2	5/8	8.5500		85.4	97.4	(.81)		675
3	3/4	12.4900		78.5	90.5	(.81)		916
4	7/8	17.1800		71.5	83.5	(.81)		1162
5	1	22.5800		63.6	75.6	(.81)		1383

S.I.P. 99.1 Psig
Bar. 12.0

PRESSURE CALCULATIONS
(All Squared Pressures In Thousands)

P_c 111.1 Psia P_c^2 12.34 x e^s 1.105 = P_f^2 13.64

RUN NO.	P_w^2	$e^sP_w^2$	F_dQ	F^2	R^2	P_s^2	$P_f^2 - P_s^2$
1	10.53	11.64	.24	.06	.01	11.65	1.99
2	9.49	10.49	.34	.12	.01	10.50	3.14
3	8.19	9.05	.46	.22	.02	9.07	4.57
4	6.97	7.70	.58	.35	.04	7.74	5.90
5	5.72	6.32	.69	.49	.05	6.37	7.27

Slope of Curve: n = .839
Angle of Curve: θ = 50°
Absolute Open Flow: ~~2,300~~ MCF/Day

R. R. COMMISSION: _____
Company: _____
Pipe Line: _____
Others: _____

Otto C Barton

AFFIDAVIT

STATE OF Texas

COUNTY OF Moore

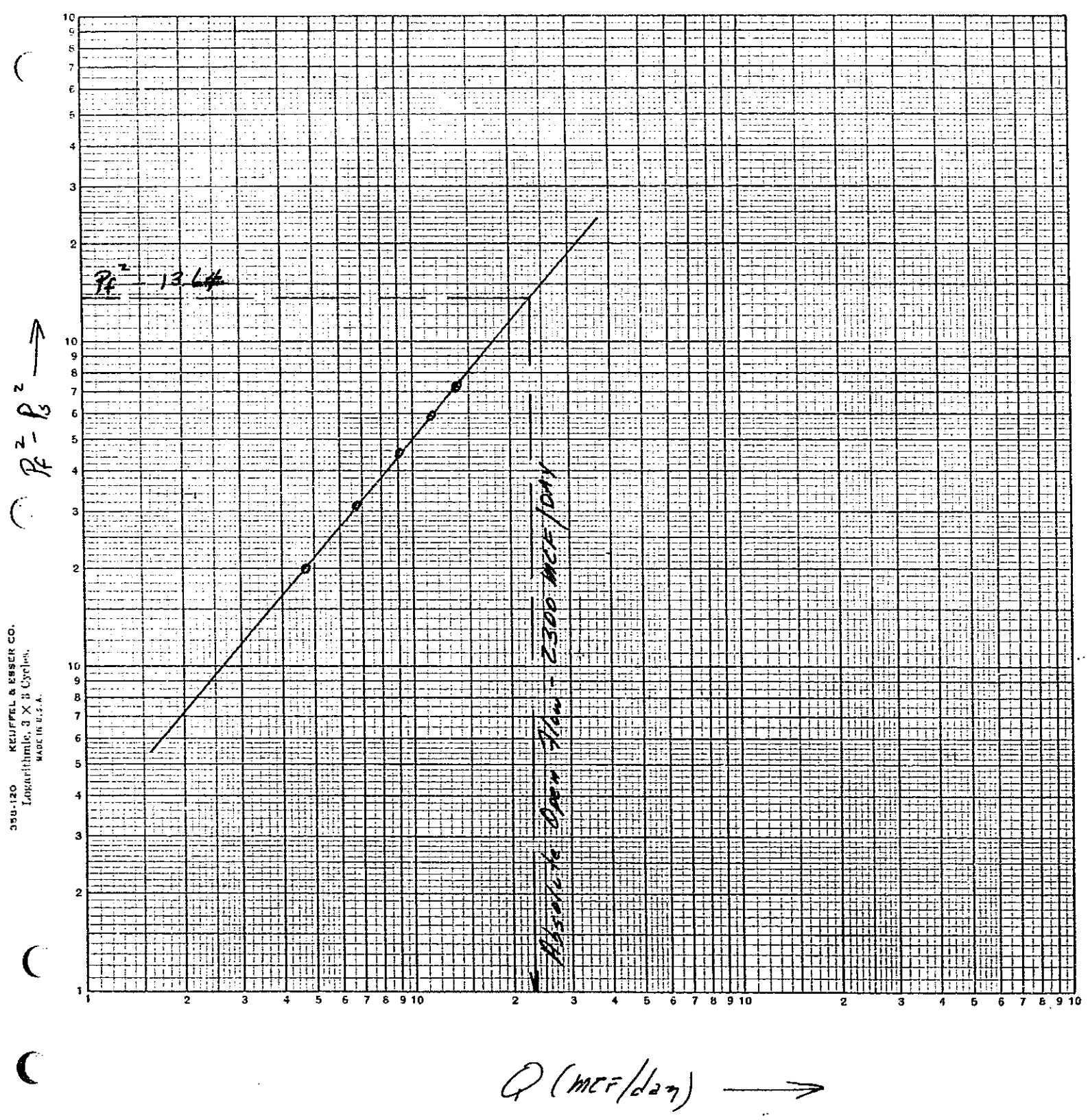
BEFORE me, the undersigned authority, on this day personally appeared Otto C. Barton, known to me to be the person whose name is subscribed to this instrument, who, after being by me duly sworn on oath, states that he is employed by or associated with ~~Kerr-McGee Oil Ind., Inc.~~ in the capacity of District Gas Supt.; that this test was made by affiant or under the supervision of affiant; that this test was made according to the Rules and Regulations of the indicated Field as of this date; that the test data and factual data shown hereon are true and correct; and that no pertinent matter inquired about in said report has been omitted.

Subscribed and Sworn to before me on this the 28 day of May 19 58

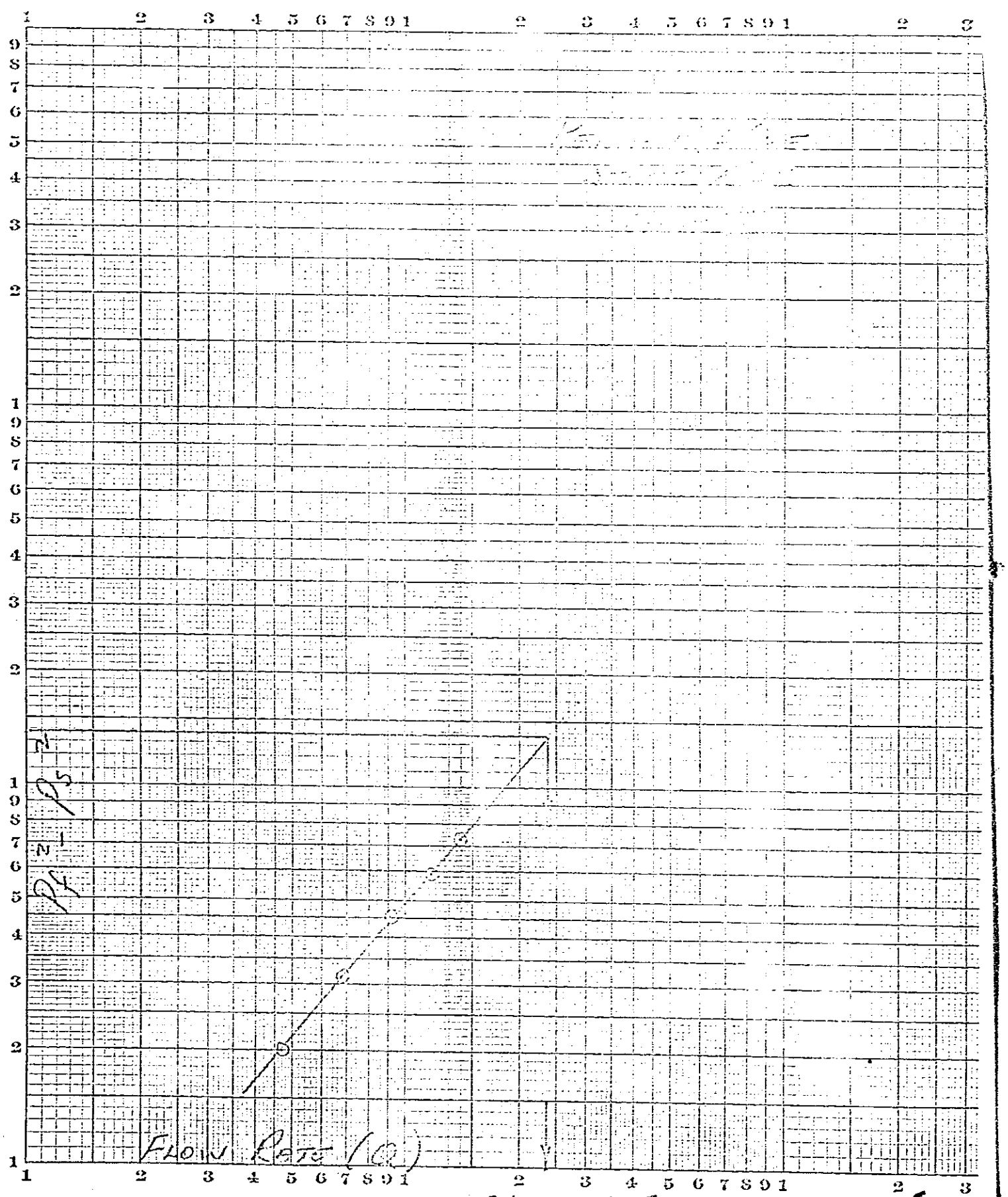
Notary Public in and for

Moore County, Texas

Kerr-McGee Oil Ind., Inc.
State # 2 (Marie # 3)
Apache County, Ariz.
24 Oct 56



10



2300 MCF
Absolute Open Flow

STATE LAND DEPARTMENT
STATE OF 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

Test Date October 24, 1956

Date May 27 19 58

Operator Kerr-McGee Oil Industries, Inc. Field Pinta

Lease State #2 (Formerly Macie #3) Well Ac.

Acres Under Well 320 Connection None

Reservoir Coconino County Apache

Sand Depth 1000' to 1124' 7" Csg. @ 1174' Tubing @

Gr. of Gas .901 ~~Size Line and~~ ~~Meter~~ Prover ~~4"~~ 2"

Is Volume Corrected to sand face? Yes

BarometricPress. 12. P.S.I.

	Closed Pres. 99.1 Lbs.		Back Pressure Test		
Orifice Size	Coeff. 24 Hr.	Working Pressure P.S.I.G.	P_c^2 P_W^2	If Orifice Meter Used Lb.	Volume M.C.F.
1/2	5.6530	90.6	1.99		470
5/8	8.5500	85.4	3.14		675
3/4	12.4900	78.5	4.57		916
7/8	17.1300	71.5	5.90		1162
1	22.5800	63.6	7.27		1383

Volume - 24 Hour 2300 MCF. Slope of curve N. .839 angle of curve 50° ~~MCF.~~

Open Flow Test

Shut In Pres. Time Shut In

Producing Through

TIME	READING	LIQUID USED	SPRING GAUGE
15 Min.			
20 Min.			
25 Min.			
30 Min.			

Test Until Two Readings Check

OPEN FLOW CAPACITY MCF per 24 Hrs.

REMARKS
Water - Oil - Etc.
(Important)

Dry

SIGNATURES
BOARD
CON. [signature]
CO.
OTHER

(ACCOMPANY THIS REPORT WITH A BACK PRESSURE CURVE)

Back Pressure test attached.

NET WELL COMPLETION
(OFFICIAL COMPLETION GAUGE)

Date of First Production Test October 24, 1956 Date of Completion Gauge October 24, 1956

Total Oil saved while testing well prior to the date of the official completion gauge None

_____ Barrels.

Production Gauge on 24 Hour Basis 0 Bbl. Oil; 0 % Water; 1383 MCF Gas.

The undersigned certifies that the Rules and Regulations of the Commissioner have been complied with except as noted above, and that the transporter('s) authorized to transport the percentage of Oil and/or Gas produced from the above described drilling unit, and that this authorization will be valid until further notice to the transporter named herein or until cancelled by the Commissioner.

Executed this the 24 day of October 19 61.

Kerr-McGee Oil Industries, Inc.
(Company or Operator)

C. F. Miller Manager Prod. Dept.
(Affiant) (Title)

STATE OF Oklahoma

COUNTY OF Oklahoma

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

Subscribed and sworn to before me this the 24 day of October 1961.

My Commission Expires Oct. 26, 1962

Rita Lee
Notary Public In and For Oklahoma County, Oklahoma

Approved BP R. Keith Walker
COMMISSIONER

BY: _____

(FOLLOW INSTRUCTIONS IN INSTRUCTION SHEET)

3-43
9/5/58

15

32 × 1

STATE OF ARIZONA
OIL AND GAS CONSERVATION COMMISSION
PHOENIX, ARIZONA

Form O & G 57
Sheet No. 1

PRODUCERS CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL OR GAS FROM DRILLING UNIT

1. Form Prescribed Under Oil and Gas Conservation Act 1951

2. This form is to be completed on both sides.

Lease Kerr-McGee State Well No. 2 Field Pinta Dome

Sec. NW/4 SE/4 34 Twp. 20 North Rge. 26 East Cty. Apache Co. Pool Pinta Dome

Producer Kerr-McGee Oil Industries, Inc.

Address all correspondence concerning this form to: Kerr-McGee Oil Industries, Inc.
Attention: C. F. Miller

Street Kerr-McGee Building City Oklahoma City State Oklahoma

The above named producer hereby authorizes Kerr-McGee Oil Industries, Inc.
(Name of Transporter)

Whose principal place of business is Kerr-McGee Building, Oklahoma City, Oklahoma
(Street) (City) (State)

And whose Field Address is: Kerr-McGee Oil Industries, Inc., P. O. Box 15, Navajo (on U. S. Highway 66), Arizona

to transport 100 % of the gas produced from the Drilling Unit designated above until further notice.

Other transporters transporting Oil or Gas from this drilling unit are:

None % (Name of Transporter) % (Name of Transporter)

REMARKS:

(OVER)

KERR-McGEE OIL INDUSTRIES, INC.
KERR-McGEE BUILDING
OKLAHOMA CITY 2, OKLAHOMA

Sunray, Texas
15 November 1956

Attn. Mr. Duncan
State Land Department
Phoenix, Arizona

Dear Sir:

Kerr-McGee Macie #3 - located NE-NW-SE - Sec. 34-20N-26E, Apache County, Arizona. Elevation 5772' ground level, 5779' RKB. This well formerly the Apache Oil and Helium Company Macie (Apache) #3 was spudded with cable tools in 1955 and drilled to T.D. of 845'. 8 5/8" casing set at 286', 7" casing set at 833' not cemented.

We took over this operation in October 1956 and at hearing held in Land Commission office in Pheonix were given permission to complete this well.

We pulled 7" casing and drilled new 7 3/4" hole to 1300' then reamed with 9 5/8" reamer and set 7", 20# casing at 1227' and cemented with 195 sacks common cement with 6% gel and ¼# flocele. Tested casing to 500#. Ran temperature survey in 12 hours found T.D. at 1177' and good cement behind pipe to 350'. Let cement set 36 hrs. then drilled with 6 1/4" bit to 2502'. Ran Electric, Gamma Ray, Neutron and Laterologs. Set Baker Bridge Plug at 1190' in 7" and plugged back to 1174' with calseal and cement.

Perforated casing 4 holes per foot from 1120' to 1124' and from 1000' to 1020'. Cleaned up well and shut in. S.I.P. in 36 hours 99.1#.

Yours truly,

Otto C. Barton

Otto C. Barton

OCB-m

cc: B.G. Taylor

13957

RECEIVED NOV 20 1956 STATE LAND DEPT.

35

KERMAC

14

STATE LAND DEPARTMENT
STATE OF ARIZONA

Form OG 51

Form Prescribed Under Oil and Gas Conservation Act of 1951

NOTICE OF INTENTION TO DRILL NEW WELL

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

State Land Commissioner: Oklahoma City, Okla. September 26, 1956

In compliance with Statewide Rule 3, notice is hereby given that it is our intention to commence the work of drilling well No. 3 Sec. 34,

Twp. 20N, Rge. 26E, _____ B.&.M., _____ Field,

Apache County.

Legal description of lease Macie No. 3 Well
(attach map or plat to scale)

Location of Well: 2175' From South and 1700' From East Lines, Section 34-20N-26E.
(Give exact footage from section corners or other legal subdivisions or streets)

Apache County, Arizona.

Proposed drilling depth 2500 feet. Acres in drilling unit 640.

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

Elevation of ground above sea level 5510'(Approx) feet.

All depth measurements taken from top of _____ (Derrick, floor, Rotary Table or Kelly Bushing) which is 10'(Approx) feet above the ground.

Kelly Bushing

PROPOSED CASING PROGRAM

Size of Casing Inches A.P.I.	Weight	Grade & Type	Top	Bottom	Cementing Depths
8-5/8"			0	286'	Mudded
7"	20#	J-55	0	833'	Mudded

Intended Zone or Zones of completion:

Name	Perforated Interval
Permian Gas Zone at approximately 1900' - 2500' or possibly Gas Zone at 1050' if present and exception to Statewide Rule 7 is sought and granted.	

AFFIDAVIT:

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

Kerr-McGee Oil Industries, Inc. Macie # 3
(Applicant)

By B. G. Taylor
B. G. Taylor, General Production Supt.

Application approved this 1 day of October 1956

State Land Commissioner

36

Permit No. 36

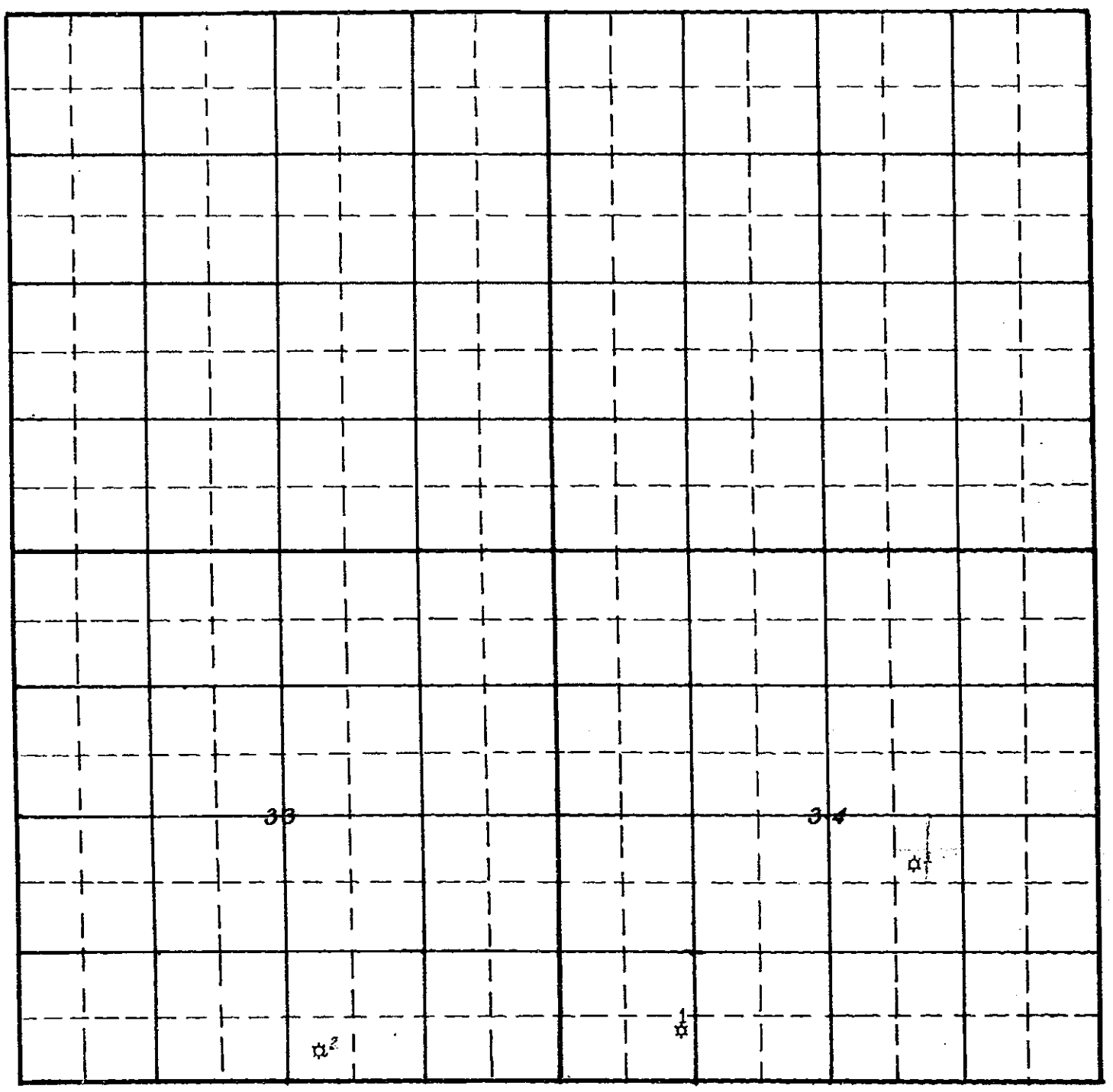
RECEIVED
OCT 1 1956
STATE LAND
DEPT.

1166

Kerr-McGee Oil Ind., Inc.

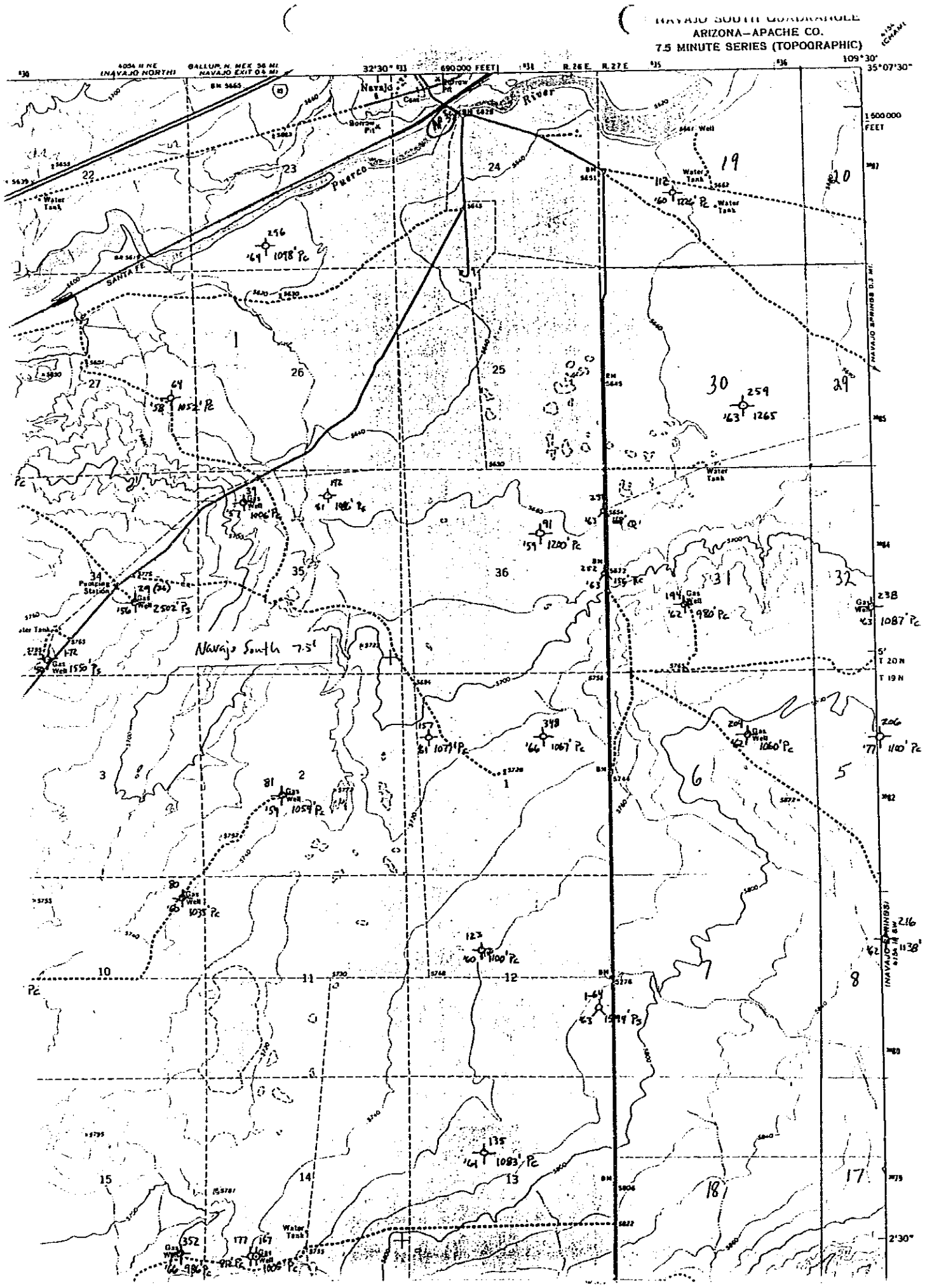
Macie Lease

Apache County, Arizona



Macie #1, SE-SW-SW-Sec. 34, 20N-26E
Macie #2, SW-SW-SE-Sec. 33, 20N-26E
Macie #3, NE-NW-SE-Sec. 34, 20N-26E

12


NAVAJO SOUTH QUADRANGLE
ARIZONA–APACHE CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
Navajo South 7.5'
Puerco
River
SANTA FE
Water Tank
Pumping Station
Gas Well
690000 FEET
32°30'
109°30'
35°07'30"
1500000 FEET
R. 26 E.
R. 27 E.
T 20 N
T 19 N
2'30"

32 × 8

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	2	PINTA DOME/Coconino Sand

Location of Well	Sec-Twp-Rge or Block & Survey	County
NE-NW-SE Section 34-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?
Apache Oil & Helium Co.	Yes-Helium	N/A	2,300 (8.89% He)	No

Date plugged:	Total depth	Amount well producing when plugged: Oil (bbls/day)	Gas (MCF/day)	Water (bbls/day)
4/12/77	2502'	-0-	41	68.6

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
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"	286'	0	286'	---	EZSV Retainer at 969'
7 "	1227'	0	1227'	---	------

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 was P & A by setting 7" EZSV cement retainer at 969' with 80 sxs. Class "B" Cement pumped below retainer and 239 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

RECEIVED APR 25 1977 D & G CONS. COMM.

Permit No. 36

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

Form No. 10

32 × 8

STATE LAND DEPARTMENT
STATE OF ARIZONA

Form O & G 52

Form Prescribed Under Oil and Gas Conservation Act of 1951
WELL COMPLETION REPORT
(File in Duplicate)

SEE ATTACHED LETTER

Operator Kerr-McGee Oil Ind., Inc. Field Wildcat
Street P.O. Box 337 Pool
City Sunray, State Texas County
Lease Name Macie Well No. 3 Acres in Unit 320
Location Apache County, Arizona
NE-NW-SE Sec. 34 Twp. 20N Rge. 26E
Elevation DF 5779' GR 5772' Electric Log Run Gamma Ray, Neutron 10-23 1956
Number of Crude Oil Producing Wells on this Lease, including this well
Has Authorization to Transport Oil or Gas from Well, Form O&G 57 been Filed?

NO OFFICIAL COMPLETION GAUGE- Shut in Gas Well

Date Test Commenced 19 Hour M. Date Test Completed 19 Hour M
Length of Test Hours Minutes

For Flowing Well:
Flowing pressure on Tbg. lbs./sq.in.
Flowing pressure on csg. lbs./sq.in.
Size tbg. in. No. ft. run
Size choke in. Type choke
Length in. Shut in pressure 99.1

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? If jetted, used cu. ft. gas per bbl.oil. Result of this test (bbls. net oil per 24 hrs.) (100% tank tables.)
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 ~~80~~ 16 From ~~1000'~~ 1120' To ~~1020'~~ 1124' Date Perforated
Date well Spudded Unknown 1955 Date Well Completed 27 October 1956
Top Pay 1000 Ft. Total depth of well 2502 Ft. P.B. to 1174'

CASING LINER AND TUBING RECORD

String	Size	Wt./Ft.	Name and Type	Amount Ft.	Amount In.	Depth Set at	Perforated From	Perforated To
Surface	8 5/8"		Lapweld			286'		
Production	7"	20#	H-40	1220		1227'	1120'	1124'
							1000'	1020'

CEMENT AND TESTING RECORD

Size of Hole	String	Where Cement Placed	No. Sacks of Cement	Method Used	Pressure Applied in Testing	Hardness of Cement Drilled	Type of Cement
	Surface	None					
9 5/8"	7" Prod.	350 to 1230	195		500#	Good	~~Common~~

CHEMICAL OR SHOOTING RECORD BEFORE COMPLETION

Size	Chemical or	Quantity	Date	Depth From	Depth to

AFFIDAVIT

I, Otto C. Barton, 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.

36

Otto C. Barton
Representative of Company

Subscribed and sworn to before me this 17 day of November 1956
Moore County, Ariz., Texas
My Commission expires: 6-1-57

Notary Public

GAS WELL OPEN FLOW POTENTIAL TEST REPORT

4-POINT TEST

Test: Initial ☐ Annual ☒ Special ☐

Field	Reservoir	Test Date
Pinta Dome	Coconino Sand	9-21-67
Operator	**Lease**	**Well No.**
Kerr-McGee Corporation	State	2

County	Location	Completion Date	Total Depth	T. Pay	Producing Interval
Apache	NE - NW - SE Section 34, 20N, 26E	10-27-56	1174' PB	994'	994'-1124'

Producing TBG.	Thru CSG.	Reservoir Temperature °F	Wellhead Temperature °F	CSG. Size	Wt/Ft.	I.D.	Set @
	X		82	7"	20#	6.456	1227'

TBG. Size	Wt/Ft.	O.D.	I.D.	Set @	Gas Gravity (Separator)	Avg. Pred. Length (L)	GL	Gas-Liquid Hydrocarbon Ratio MCF per Bbl.	Gravity of Liquid (API)
					0.909	1059	963		

Pipeline Connection	Type Taps
Kerr-McGee Corporation	Flange
Multiple Completion (Dual or Triple)	**Type production from each zone**

OBSERVED DATA
Flow Data

No.	Time of Flow Hours	~~Meter~~ (Line) Size	~~(Orifice~~ (Orifice) Size	Press. psig	Diff. h w	Tubing Press. psig	Casing Press. psig	Flowing Temp. °F
SI	3			Roots-PSI			66.4	
1.	1	4	$2\frac{1}{4}$	4.60 41.3	1.90		62.3	81.0
2.	1	4	$2\frac{1}{4}$	4.60 41.7	3.00		59.3	79.5
3.	1	4	$2\frac{1}{4}$	4.60 41.7	4.19		56.5	79.3
4.	1	4	$2\frac{1}{4}$	4.60 42.2	5.10		53.8	76.7

FLOW CALCULATIONS

No.	Coefficient (24 Hr.)	$\sqrt{h_w p_m}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q MCF/D
					In coefficient		
1.	30.070	8.74	53.1	0.9804		1.0000	257.7
2.	30.070	13.80	53.5	0.9817		1.0000	407.4
3.	30.070	19.27	53.5	0.9819		1.0000	569.0
4.	30.070	23.46	54.0	0.9843		1.0000	694.4

$P_c = 78.2$ psia $P_c^2 = 6.115$ PRESSURE CALCULATIONS $F_c = 0.4430$; $1-e^{-s} = 0.068$

	P_w/P_t (psia)	P_t^2	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2 \times 1-e^{-s}$	P_w	$P_c^2 - P_w^2$	Cal. P_w	P_w/P_c
1.		5.491	.114	.0130	.0009	5.492	0.623	74.1	.9476
2.		5.055	.180	.0324	.0022	5.057	1.058	71.1	.9092
3.		4.665	.252	.0635	.0043	4.669	1.446	68.3	.8734
4.		4.303	.308	.0949	.0065	4.310	1.805	65.7	.8402

Absolute Potential 2,190 MCF/D n 0.916

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Engineer of the Kerr-McGee Corp. (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.

E. C. Reich, Jr.
Signature

RECEIVED OCT 11 1967 STATE O & G CONS. COMM.

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION
Gas Well Open Flow Potential Test Report (4-Point Test)
Form No. ~~GT~~ 15 File two copies
Effective _____, 19____

36

32 × 1

DISTRICT NO. 10

~~RAILROAD COMMISSION OF TEXAS~~
OIL AND GAS DIVISION

FORM GWT-10

MULTI-POINT BACK PRESSURE TEST
FOR GAS WELL

Company Kerr-McGee Oil Industries, Inc. Lease State #2 Well No. 2

New Well xxx Retest _____ Date of Test 24 October 19 56

Field Pinta County Apache Acres 320

Sec. 34 ~~Blk.~~ 20N ~~Sur.~~ 26E Loc. _____ Conn. _____

Casing 7" Wt. 20# I.D. 6.456 Set at 1174 Perf. 1120-24' To 1000-20'

Liner _____ Wt. _____ I.D. _____ Set at _____ Perf. _____ To _____

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

Gas Pay From 1000 To 1124 L 1062 G 0.901 GL 957 Barometric 12.0

e^s 1.105 F_d 0.5016 Well Shut In 72 Hours Before Test

Size of Prover 2" Size of Meter Run _____ Type of Connection _____

REMARKS: _____

OBSERVED DATA

RUN NO.	SIZE METER RUN OR PROVER ORIFICE	METER PRESSURES STATIC Psig	Pm Psia	DIFFERENTIAL Inches-Roots	FLOW TEMP	WELLHEAD WP Psig	Pw Psia	DURATION OF FLOW IN HOURS
1					68			
2								
3								
4								
5								

FLOW CALCULATIONS

RUN NO.	COEFF. "C" (24 HR.)	h_wP_m	$\sqrt{h_wP_m}$	WORKING PRESSURE ON PROVER Psig	Psia	FLOW TEMP. FACTOR F_{tf}	GRAVITY FACTOR F_g	FLOW RATE $Q=M^2cfd$ @ 14.65
1	1/2	5.6530		90.6	102.6	(.81)		470
2	5/8	8.5500		85.4	97.4	(.81)		675
3	3/4	12.4900		78.5	90.5	(.81)		916
4	7/8	17.1800		71.5	83.5	(.81)		1162
5	1	22.5800		63.6	75.6	(.81)		1383

S.I.P. 99.1 Psig

Bar. 12.0

PRESSURE CALCULATIONS
(All Squared Pressures In Thousands)

P_c 111.1 Psia P_c^2 12.34 x e^s 1.105 = P_f^2 13.64

RUN NO.	P_w^2	$e^sP_w^2$	F_dQ	F^2	R^2	P_s^2	$P_f^2 - P_s^2$
1	10.53	11.64	.24	.06	.01	11.65	1.99
2	9.49	10.49	.34	.12	.01	10.50	3.14
3	8.19	9.05	.46	.22	.02	9.07	4.57
4	6.97	7.70	.58	.35	.04	7.74	5.90
5	5.72	6.32	.69	.49	.05	6.37	7.27

Slope of Curve: n = .839

Angle of Curve: θ = 50°

Absolute Open Flow: 2,300 MCF/Day

R. R. COMMISSION: _____

Company: _____

Pipe Line: _____

Others: _____

32 x

AFFIDAVIT

STATE OF Texas

COUNTY OF Moore

BEFORE me, the undersigned authority, on this day personally appeared Otto C. Barton, known to me to be the person whose name is subscribed to this instrument, who, after being by me duly sworn on oath, states that he is employed by or associated with ~~Kerr-McGee Oil Ind., Inc.~~ in the capacity of District Gas Supt.; that this test was made by affiant or under the supervision of affiant; that this test was made according to the Rules and Regulations of the indicated Field as of this date; that the test data and factual data shown hereon are true and correct; and that no pertinent matter inquired about in said report has been omitted.

Subscribed and Sworn to before me on this the 28 day of May 19 58

Notary Public in and for

Moore County, Texas

LOG NO 31022 ELR
34 20N 26E

31022 ELR
LOC (P.I.) 34 20N 26E
NW SE
CO. Kerr-McGee Oil Industries, Incorporated
WELL #2 State
FIELD Wildcat
Apache, Arizona

Reproduced from best original available

P.I. DENVER - CASPER BILLINGS - BISMARCK LOS ANGELES

SCHLUMBERGER WELL SURVEYING CORPORATION

ELECTRICAL LOG
LATEROLOG

COMPANY KERR MC GEE OIL INDUSTRIES
WELL #2 State
FIELD WILDCAT
LOCATION SEC. 34-20N-26E
COUNTY APACHE
STATE ARIZONA

Location of Well: NW SE SEC. 34-20N-26E

ES LL (ML GRN LLM)

Elevation: D.F. 5778' K.B. 5776' or G.L. 5772'

FILING No.

COUNTY APACHE STATE ARIZONA
FIELD or LOCATION WILDCAT
WELL
COMPANY KERR MC GEE OIL INDUSTRIES

RUN No.	ONE ES	ONE LL
Date	10-5-56	10-16-56
First Reading	199	2499
Last Reading	280	2300
at Measured	61	228
@ Schlum.	384	230
@ Driller	280	229
Depth Reached	200	2502
Bottom Driller	200	2500
Depth Datum	GL	GL
Mud Not.	GEL CHEM	SALT GEL
Density	8.7	10.8
Viscosity	56	62
Resist.	.64 @ 85 F	.08 @ 58 F
Res. BHT	.64 @ 82 F	@ F
pH	@ F	6 @ F
Wtr. Loss	CC 30 min.	7.8 CC 30 min.
Max Temp °F	89	94
Bit Size	7 7/8"	6 1/4"
SPACERS AM	5'	
AM	4'	16'
AO	19.8'	
Opr. Rig Time	HR	HR
Truck No.	77 FARM	77 FARM
Recorded By	COX	WILLIS
Witness	ODWOD	VAUGHN

REMARKS MUD FROM FLOW LINE

GAMMA RAY B64-180-100(200)

SPONTANEOUS POTENTIAL MILLIVOLTS: -10

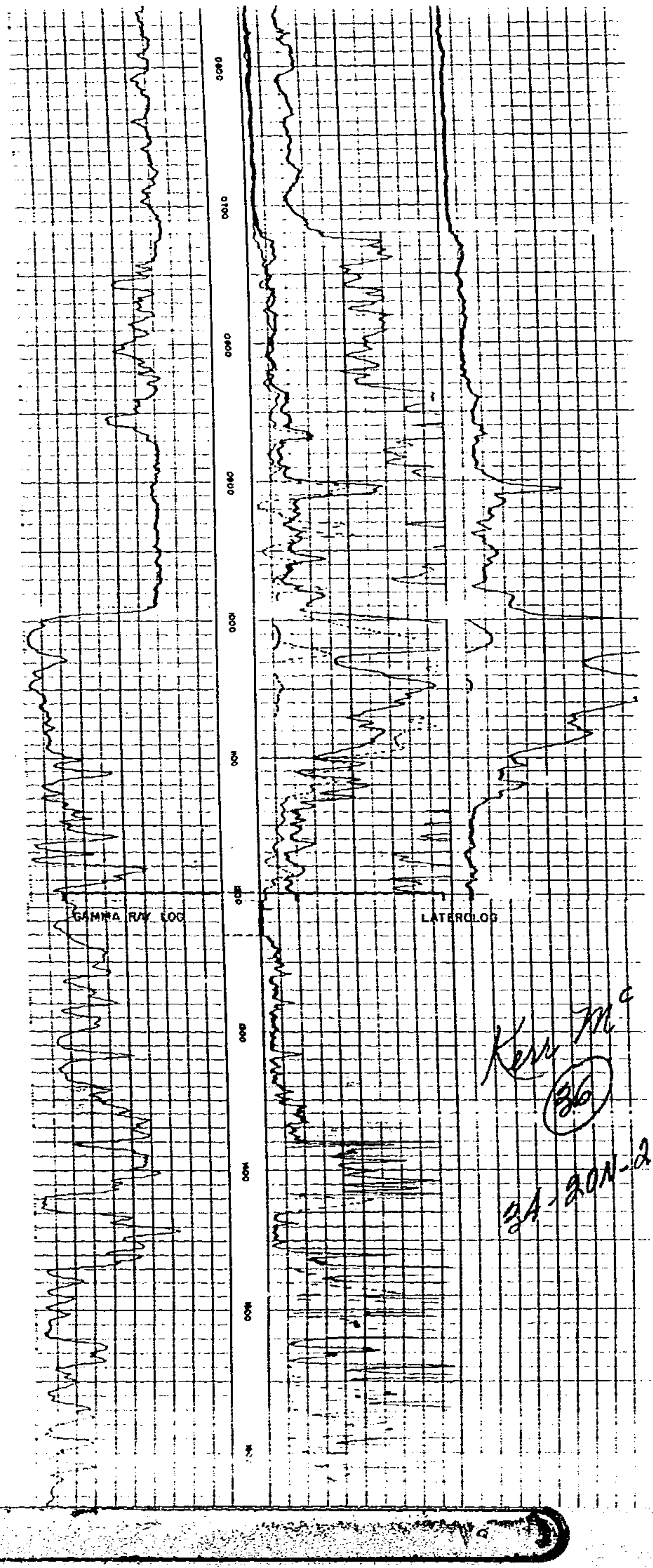
DEPTH 2"=100'

RESISTIVITY -ohms.m²/m: NORMAL 0 100; LATERAL 0 100; AMP. NORMAL 0 20

RESISTIVITY -ohms.m²/m: LONG NORMAL 10 1000

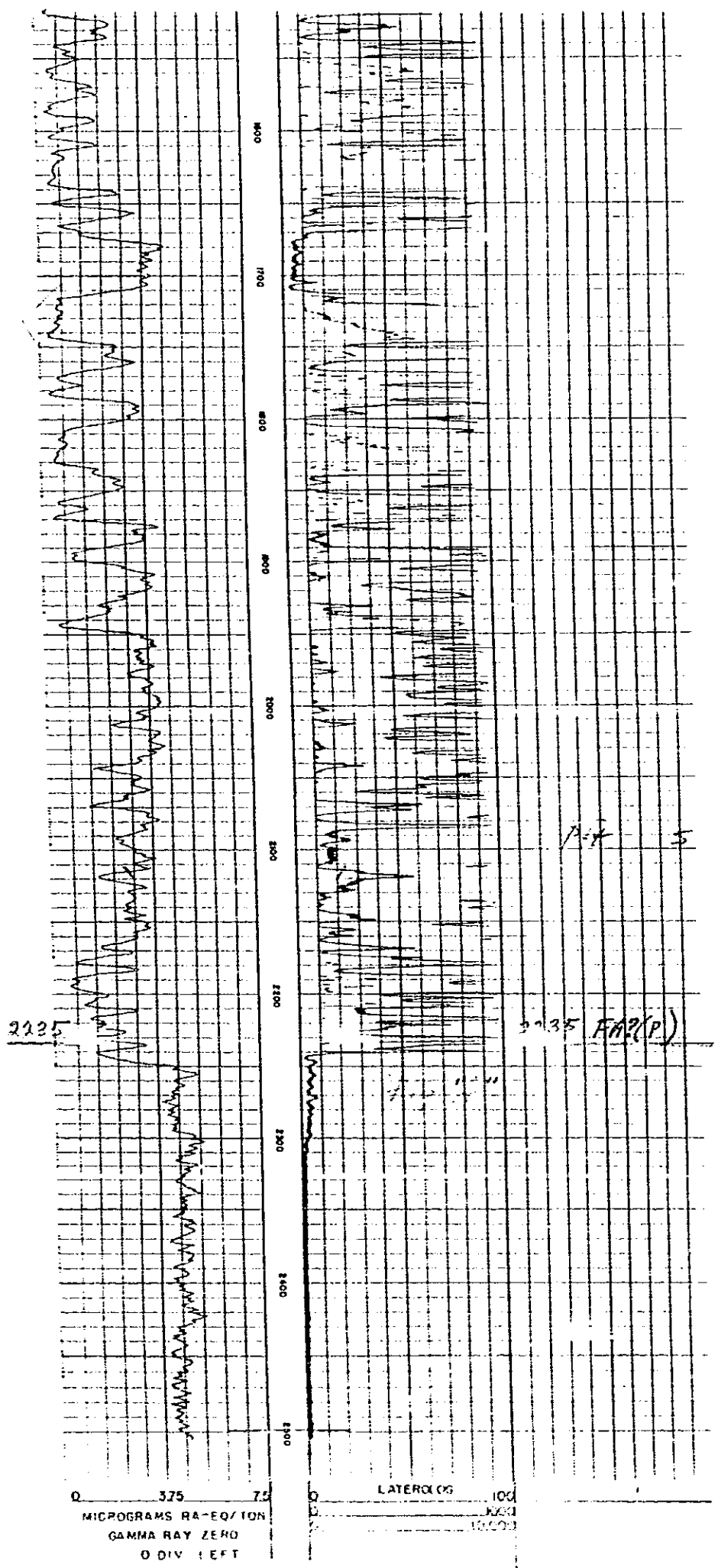
CSG. 258'

0300 0400 0500 600

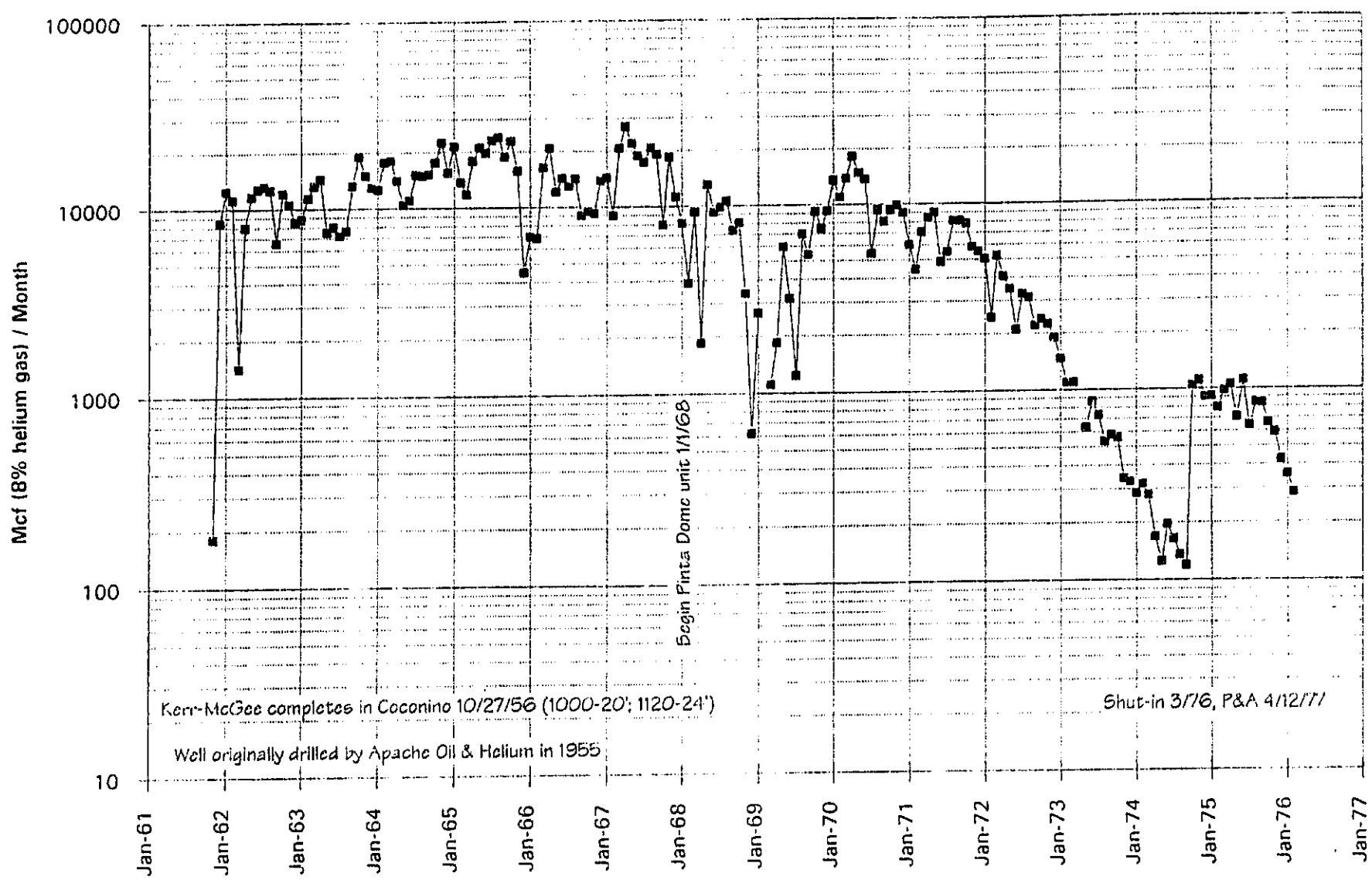


Kerr Mc
36
34-20N-26E

32 ×


2225
2135 FM?(P)
0 375 75
MICROGRAMS RA-EQ/TON
GAMMA RAY ZERO
0 DIV LEFT
0 LATEROLOG 100

Kerr-McGee 2 State (36)
nw se 34-20n-26e, Pinta Dome, Arizona



1/29/98

32 x

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

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.

36

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

36

32 × 1

#50

Kerr-McGee Corporation has shut down its helium extraction plant in Navajo, Arizona. This plant was shut down February 25, 1976. Production in the Pinta Dome field had declined to such an extent that it was no longer economical to operate this plant. Kerr-McGee now plans to plug their wells in the Pinta Dome Unit and abandon all operations.

Several months ago, Kerr-McGee made some effort to take over operations of the Navajo Springs Unit. It is doubtful that if they had been successful in this venture, the Navajo Springs Unit would have supplied enough additional gas to prolong the closing of the plant for any great period of time.

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

36

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

PHONE
806 376-7256

March 3, 1970

Arizona Oil & Gas Conservation Commission
Room 202
1624 West Adams
Phoenix, Arizona 85007

Attn: Mr. John Bannister

RE: Sundry Notices
Fee #2
State #1
State #2
Pinta Dome Field

Dear John:

Enclosed please find two copies of Sundry Notices for completed work on the above wells in the Pinta Dome Field.

Sincerely yours,

Kerr-McGee Corporation

Otto C. Barton
Porudction Superintendent
Southwestern District

OCB/mh

Enclosures

36

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

PHONE
806 376-7256

February 10, 1970

Arizona Oil & Gas Conservation Commission
Room 202
1624 West Adams
Phoenix, Arizona 85007

Attn: Mr. John Bannister

Re: Sundry Notices
Fee #2
State #1
State #2
Pinta Dome Field

Dear John:

As discussed over the telephone, enclosed please find two copies of Sundry Notices for proposed work on the above wells in the Pinta Dome Field.

It would be appreciated if you would approve the enclosed forms and return one copy for our file.

Sincerely yours,

KERR-McGEE CORPORATION

O. C. Barton
Production Supt.

OCB/ss
Encl.

36

June 12, 1963

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, 1963.

Sincerely,

John Bannister
Executive Secretary

JAL:jf

36

36

x 10
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36
349
378
80
88
81

KERR-McGEE

POST OFFICE BOX [illegible] • SINDAY, 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 can 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 CONS. COMM.

OCB/ds

36

32 x

X- Lombient
X-Chrono

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 X
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 X
Eastern State #1-28	Permit #88
Eastern State #1-2	Permit #81

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.

36

32 × 1

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.

Operator KERR MC GEE ~~OIL~~ Corporation ~~INDUSTRIES INC.~~

Bond Company Insurance Co. of N. America Amount 25,000

Bond No. M 41 95 25 (~~KM528~~) Date Approved 10-28-65

Permits covered by this bond:

10	386	417
36	389	418
37	390	419
38	391	420
39	392	422
57	396	426
63	397	427
64	398	441
142	399	445
238	402	446 → see this file
~~303~~	403	
90	404	
91	405	
349	406	
303	407	
377	408	
378	409	
379	410	
380	411	
381	413	
384	414	
385	416	

CANCELLED

DATE 10-24-68

Superseded by
American Casualty Co. Bond
$25,000
#5471020-52

32 ×

Operator Kerr-McGee Industries, Inc.

Bond Company Indemnity Ins. Co. of North Ame Amount $10,000

Bond No. [redacted] M 246435 KM146 Date Approved 8-1-60

Permits covered by this bond:

~~10~~ See this file

~~39~~

142

~~57~~

~~63~~

90

~~64~~

238

~~36~~

~~37~~

~~38~~

91

303

Now covered by bond # M 41 95 25

CANCELLED

DATE 10-28-65

32 × [redacted]

Operator Kerr-McGee Industries, Inc.

Bond Company Indemnity Ins. Co. of North Ame Amount $10,000

Bond No. [redacted] M 24 64 35 KM146 Date Approved 8-1-60

Permits covered by this bond:

~~10~~ See this file

~~39~~

142

~~57~~

~~63~~

90

~~64~~

238

~~36~~

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~~38~~

91

303

Now covered by bond # M 41 95 25

CANCELLED

DATE 10-28-65

32 × [redacted]

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

32 x

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

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

32 ×

September 6, 1960

Kerr-McGee Oil Industries, Inc.
Kerr-McGee Building
Oklahoma City 2, Oklahoma

Attention: Mr. G. W. Shimeall

Bear Mr. Shimeall:

We have received your $10,000 drilling bond, Indemnity Insurance Company of North America as Surety. We are this date releasing your #5006943 in the amount of $10,000 dated 18 September 1956, National Surety Company as Surety.

We enclose an additional copy of this release of bond for National Surety Company. Will you please forward. Thank you very much.

Sincerely,

W. F. Maule
Petroleum Engineer

WFM/ew
Enclosure

36

KERR-McGEE OIL INDUSTRIES, INC.

Kerr-McGee Building • Oklahoma City 2, Oklahoma

August 25, 1960

Oil and Gas Conservation Commission
State of Arizona
Phoenix, Arizona

Re: Drilling Bond

Gentlemen:

Recently, a new ten thousand dollar Drilling Bond was mailed to your Office by the Surety for approval in behalf of Kerr-McGee Oil Industries, Inc. This Bond was executed August 1, 1960, in behalf of Kerr-McGee Oil Industries, Inc. as Principal and Indemnity Insurance Company of North America as Surety.

When the new Bond is approved, it is requested that Kerr-McGee Oil Industries, Inc. be informed as to the date of the termination of liability under Bond dated September 18, 1956.

Very truly yours,

KERR-McGEE OIL INDUSTRIES, INC.

G. W. Shimeall

G. W. Shimeall

GWS:pq

32 × 1

September 17, 1959

Kerr-McGee Oil Industries Inc.
306 N. Robinson
Oklahoma City, Oklahoma

Attention: Mr. Larry W. Curtis

Gentlemen:

As you are no doubt aware, this department has had considerable pressure upon it by newspapers, organizations and individuals for information concerning when your company will begin using, processing, selling and disposing of some of the helium in your wells. We assume that your company has some plans whereby this helium will be used or sold and we respectfully request that if it is not inconsistent with your company policy, we should like to be appraised of any information you can give us along these lines.

The Midland Sunday paper of August 30, 1959 carried an article about Texas American's Fitzgerald Well No. 2. In this article, Nash Dowdle, President of Texas American, stated that your company was in the process of entering contracts for the disposal of helium and that there would be a market for this helium in the near future. As you are aware, we are very desirous of increasing the activity and productivity of the oil and gas industry in this state and therefore, we are extremely desirous of knowing what to expect from your company in the foreseeable future with respect to the helium gas wells.

Anything the Commission can do to help you in any manner to expedite any of your matters leading toward an early solution of the disposition of the helium gas would, of course, be acted upon quickly.

May we hear from you at your earliest convenience.

Yours very truly,

AIR MAIL

D. A. Jerome
Executive Secretary

DAJ/jds

36

July 1, 1959

Kerr-McGee Oil Industries, Inc.,
Kerr-McGee Building
Oklahoma City 2, Oklahoma

Attention: John A. Masters,
Chief Geologist

Dear Mr. Masters:

This is to acknowledge receipt of your letter of June 26, 1959, authorizing release of samples on your Hortenstine No's 1 and 2 and Reese No. 1.

Thank you for your cooperation.

Very truly yours,

STATE LAND COMMISSIONER

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

FCR:mb

KERR-McGEE OIL INDUSTRIES, INC. 10839

Kerr-McGee Building • Oklahoma City 2, Oklahoma

June 26, 1959

RECEIVED
JUN 29 1959
STATE LAND
DEPT.

Mr. Frederick Ryan
State Land Department
Phoenix, Arizona

Dear Mr. Ryan:

This letter will give you permission to release the samples on the Kerr-McGee Hortenstine #1, 2 and Kerr-McGee #1 Reiss, all in Apache Co., Arizona.

Yours very truly,

KERR-McGEE OIL IND., INC.

John A. Masters

JAM:eab

John A. Masters
Chief Geologist

December 10, 1956

Mr. Otto C. Barton
Kerr-McGee Oil Ind., Inc.
Box 337
Sunray, Texas

Dear Mr. Barton:

We wish to acknowledge receipt of our forms O&G 52, "Well Completion Report" in conjunction with the three wells drilled in Apache County which were formerly under the name of Apache Oil & Helium Company, and for which we wish to thank you. We are also in receipt of Schlumberger Temperature Log and for which we appreciate you sending us on the Macie #2 and Macie #3.

Very truly yours,

STATE LAND DEPARTMENT

Louis C. Duncan,
Manager

mb

CLASS OF SERVICE
This is a fast 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

STATE LAND DEPARTMENT 1201

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

.LB515 KA479

OCT 25 8 32 AM 1956

K OCA690 LONG NL PD AR=WUX OKLAHOMA CITY OKLA 24= 1956 OCT 24 PM 6 10

STATE LAND DEPARTMENT=

:PHILLIP W JOHNSON PHOENIX ARIZ=

THE SAMPLES AND CORES ON THE #3 MACIE HAVE BEEN SHIPPED TO THE FOUR CORNERS SAMPLE CUT AT FARMINGTON, AND WILL BE DISTRIBUTED TO THE THREE AGENCIES AS YOU REQUESTED. I WAS THE GEOLOGIST ON THE WELL AND ALSO DID SOME REGIONAL SURFACE WORK OUT IN THAT AREA OF THE STATE. WE DO NOT HAVE MUCH INFORMATION ON THE WELLS DRILLED IN THE APACHE, NAVAJO, AND COCONINO COUNTY REGION, AND WONDER IF YOU HAVE AN INDEX SHOWING WHAT DATA YOU HAVE

36

OF SERVICE
a fast message
is its deferred char-
er is indicated by the
er symbol.

WESTERN UNION
TELEGRAM

W. P. MARSHALL, PRESIDENT

SYMBOLS
DL=Day Letter
NL=Night Letter
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

FB 5757 2

1956 OCT 24 PM 6 10

ACCUMULATED GIVING SAMPLE DESCRIPTIONS SAMPLE LOGS, ELECTRIC LOGS, DRILL STEM TESTS, PRODUCTION TESTS, ETC. COULD YOU PHOTOSTAT YOUR INFORMATION AND SEND IT ON TO US BY MAIL? THE #1 SANTA FE WAS DRILLED IN THE NW SW SEC. 1-19N-22E, NAVAJO COUNTY ARIZONA BY HAGER-MILLS-LANDRUM TO A TOTAL DEPTH OF 1180'. DO YOU HAVE DATA ON SAMPLE TOPS, ELECTRIC LOG TOPS, AND TEST IN YOUR OFFICE? IF SO PLEASE WIRE US COLLECT THE ESSENTIAL INFO. ON THE #1 SANTA FE MANY THANKS=

:KERR MCGEE OIL IND INC JOHN P DOWDS=

CLASS OF SERVICE
This is a fast message unless its deferred character is indicated by the proper symbol.

WESTERN UNION
TELEGRAM

(42)

1201

W. P. MARSHALL, PRESIDENT

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

..LB426 KA338 DUPLICATE OF TELEGRAM 1956 OCT 25 PM 4 01

K OCA447 DL PD=WUX OKLAHOMA CITY OKLA 25 417PMC=
=LOUIS C DUNCAN= Rm #422 Ariz State Office Bldg Capitol annex
:MANAGER STATE LAND DEPT PHOENIX ARIZ=

=THANK YOU FOR YOUR REPLY ON APACHE, NAVAJO, AND COCONINO COUNTIES. WE CAN USE COPIES OF EVERY LOG AND ALL WELL INFORMATION ALSO, INCLUDING ALL YOUR SCHLUMBERGERS. PLEASE HAVE THE HAGER-MILLS-LANDRUM INFORMATION REPRODUCED, AND AIRMAIL THE CROP TO KERR MCGEE, OKLAHOMA CITY ALONG WITH THE BILL FOR COST AND EXPENSES=

Ask a 36128 K.B.
=KERR MCGEE OIL IND INC JOHN P DOWDS= 409P Mail

36

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

Telegram read over the phone 10/25/56 to KB. Original will be mailed in 10/26/56

From Oklahoma City, Oklahoma - Kerr McGee Oil Industries, Inc. - John P. Dowds

To Louis C. Duncan

THANK YOU FOR YOUR REPLY ON APACHE, NAVAJO AND COCONINO COUNTIES. WE CAN USE COPIES OF EVERY LOG AND ALL WELL INFORMATION ALSO INCLUDING ALL YOUR SCHLUMBERGERS. PLEASE HAVE THE HAGER-MILLS-LANDRUM INFORMATION REPRODUCED AND AIRMAIL THE CROP TO KERR McGEE, OKLAHOMA CITY, ALONG WITH BILL FOR COST AND EXPENSES.

36

DOMESTIC SERVICE			
Check the class of service desired; otherwise this message will be sent as a full rate telegram			
FULL RATE TELEGRAM	X	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
	COLLECT			

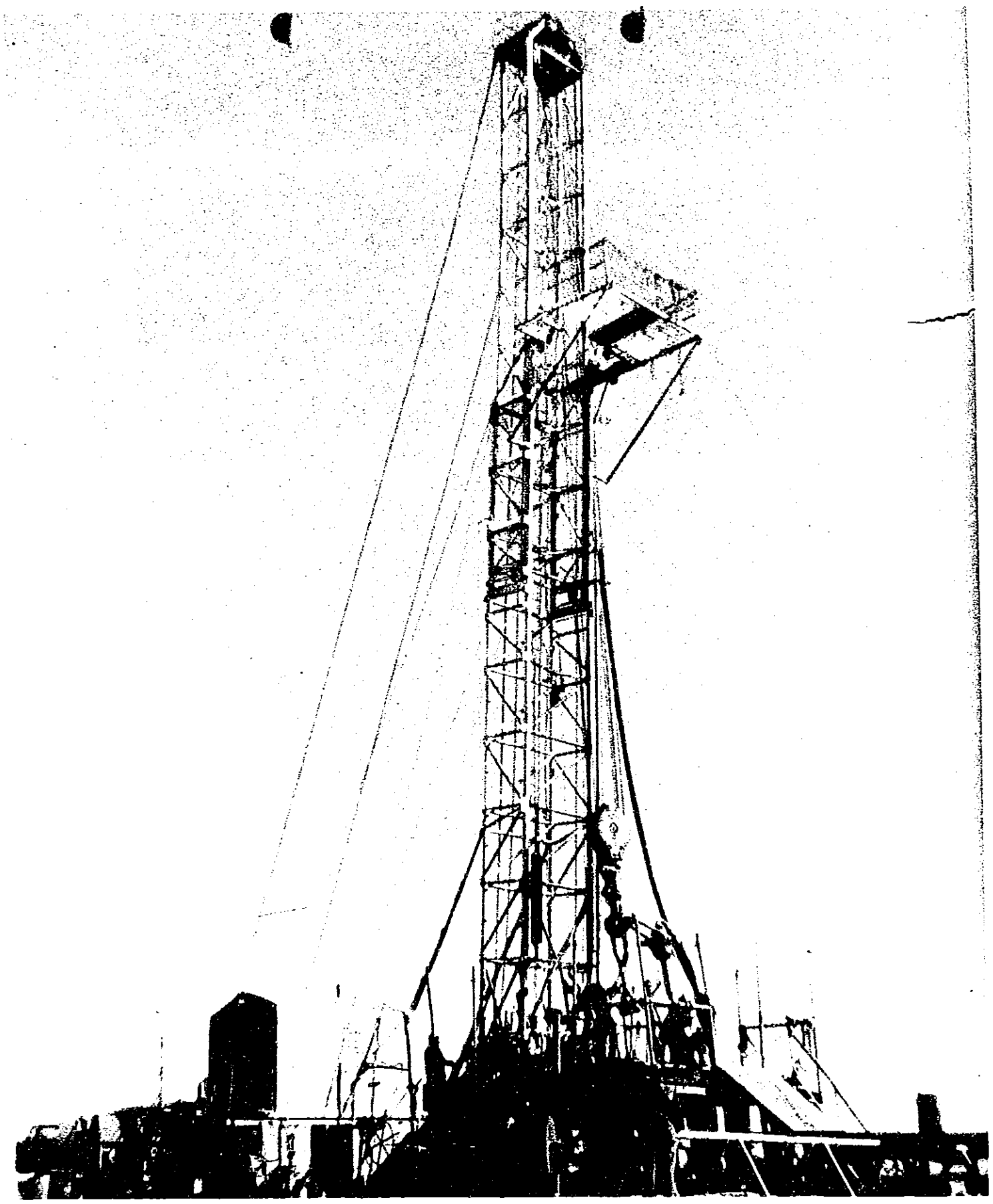
Send the following message, subject to the terms on back hereof, which are hereby agreed to

JOHN P. DOWDS
KERR-MCGEE OIL INDUSTRIES, INC.
KERR-MCGEE BUILDING
OKLAHOMA CITY, OKLAHOMA

RETEL FORWARDING ALL AVAILABLE MIMEOGRAPHED LOGS ON HAND REGARDS APACHE, COCONINO, NAVAJO COUNTIES, ALONG WITH STATISTICAL RESEARCH RECORD OF WELLS DRILLED IN THREE COUNTIES AND INFO ON HAND. PLEASE ADVISE IF YOU WISH ANY PARTICULAR SCHLUMBERGER ELECTRICAL LOG OR LOGS PHOTOSTATED. WE HAVE SINGLE COPIES OF TWELVE OF THIS TYPE. NO CHARGE FOR MIMEOGRAPHED LOGS, EXCEPT VERIFAX WORK ON HAGER-MILLS-LANDRUM.

LOUIS C. DUNCAN, MANAGER
STATE LAND DEPARTMENT

36



APACHE OIL & HELIUM CORP.

Well #3 - October 14, 1956

OPERATOR: - Kerr-McGee Oil Industries, Inc.
Oklahoma City, Oklahoma

Contract #357
Project #382

Pinta Structure - Apache County, Navajo, Arizona
Barney Lyon - Otto Barton - Engineer - KERMAC

DRILLER: - Riley Drilling Co. - Rig #22
Odessa, Texas

Photo Courtesy - Arizona Republic

STATE LAND DEPARTMENT OF THE STATE OF ARIZONA

BEFORE THE STATE LAND COMMISSIONER

IN THE MATTER OF APPLICATION FOR EXCEPTION TO SPACING RULE FILED BY KERR-McGEE OIL INDUSTRIES, INC., ON SECTION 34, TOWNSHIP 20 NORTH, RANGE 26 EAST, GILA AND SALT RIVER BASE AND MERIDIAN	)	NOTICE OF HEARING

KERR-McGEE OIL INDUSTRIES, INC., having filed application and notice of intention to drill a new well on Section 34, Township 20 North, Range 26 East, Gila and Salt River Base and Meridian, Apache County, Arizona, and having requested that an exception be made to Statewide Rule No. 7 relative to the spacing of gas wells,

IT IS HEREBY ORDERED, under the provisions of Statewide Rule No. 8 a public hearing be held at the office of the State Land Commissioner, 422 Arizona State Office Building, Phoenix, Arizona, on the 22nd day of October, 1956, at the hour of 10:00 o'clock A.M. at which time and place any and all interested parties may produce evidence as to why said application should or should not be granted.

GIVEN under my hand and the seal of the State Land Department of Arizona this 11th day of October, 1956.

State Land Commissioner

36

October 4, 1956

Mr. B. G. Taylor, General
Production Superintendent
Kerr-McGee Oil Industries, Inc.,
Kerr-McGee Building
Oklahoma City 2, Oklahoma

Dear Mr. Taylor:

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

Under the law it is mandatory that samples of cuttings of all oil test wells, as well as logs and other pertinent information be filed with the State Land Commissioner within six months after completion or abandonment. The over-all policy of the collection and preservation of samples has been a joint venture between the State Land Department, the U. S. Geological Survey, Groundwater Branch, University of Arizona and the Museum of Northern Arizona. Under this program samples of all types of wells are collected and cut two or three ways depending upon the type and location of the well. All oil test wells in the northern part of the State (plateau regional) are cut three ways, and all oil test wells in the southern part are cut two ways.

Inasmuch as your test well is in the northern part of the State, we will require enough samples in order that it can be cut three ways. One sample for the loan library at the State Land Department, one sample for the permanent library at the University of Arizona, Tucson, Arizona, and one sample for the Research Center, Museum of Northern Arizona at Flagstaff, Arizona. Arrangements have been made with Mrs. Annabelle Smith, Manager of the Four Corners Sample Cut, Farmington, New Mexico to handle our samples. I would appreciate it if you could arrange with your representative in charge of this well to take these samples to the Four Corners Sample Cut.

I presume that you will be collecting samples at 10' intervals, or less, and that possibly you will also do some coring. We would appreciate getting core chips samples and copies of whatever logs you run. If we can be of any further service, please feel free to call on us.

Very truly yours,

36

Phillip W. Johnson,
Geologist

PWJ:nb

October 3, 1956

Mr. B. G. Taylor, General
Production Superintendent
Kerr-McGee Oil Industries, Inc.,
Kerr-McGee Building
Oklahoma City 2, Oklahoma

Dear Mr. Taylor:

We wish to thank you for completion of our form OG 50 setting out the plan and purpose of your organization and the names and addresses of agents associated with your corporation.

We also wish to acknowledge receipt of OG 51 relative to your proposed casing program, which has been approved by the State Land Commissioner, Mr. Roger Ernst, on October 1, 1956. We are inclosing a copy for your files.

We wish to advise you that the bond in the amount of $10,000.00 has been filed by the National Surety Corporation of New York, N. Y., which has been properly executed and for which we wish to thank you.

Mr. Phillip W. Johnson, Geologist, will no doubt be writing you with regard to samples and submission of logs, electric or otherwise, in accordance with the rules and regulations governing oil and gas in the State of Arizona.

Thank you again, for your splendid cooperation in the submission of the above documents.

Very truly yours,

Louis C. Duncan,
Manager

36

LCD:mb
Encl.

A V O I D V E R B A L O R D E R S

TO: Roger Ernst, State Land Commissioner

FROM: Louis C. Duncan

DATE: September 28, 1956

SUBJECT: Kerr-McGee Oil Industries, Inc.

We received a telegram from Kerr-McGee Oil Industries, Inc., requesting approval to proceed with deepening of Macie Well #3, located in Section 34, 20-N, 26-E.

Upon receipt of this request, Emmet Barry and I talked with Phil Johnson in Tucson relative to the approval of Macie #3 to be deepened from 833' where it stands at the present time, to 2500'. It was agreed that the best interests of the State would be served by obtaining all the possible geological data that might be available by drilling to the additional depth of this proposed well.

In considering the best interests of the State, it was agreed we should approve a Permit to the Kerr-McGee Oil Company. It was found that Macie #1, which is also located within this same section, has proven to be valuable in the capacity of helium. Macie #1 was drilled prior to the change in the law in the last Legislature and the 800' depth in Macie #3 at the present time was also drilled prior to that time, and that it would be agreeable to permit this deepening on the basis that the well was started prior to the change in the law.

It was also agreed that if material other than helium could be produced from Macie #3 there would be no objection to producing that well, but if the same content (being helium) was the only product available from Macie #3, as is the case in Macie #1, that Macie #3 or Macie #1 must be capped, and only one of the two wells would be authorized to produce.

The possibility that Macie #3 may prove of some additional geological information to the best interests of all concerned, it is felt that we should follow the prescribed procedure in Rule 8 and authorize the deepening of Macie #.

KERR-McGEE OIL INDUSTRIES, INC.
KERR-McGEE BUILDING
OKLAHOMA CITY 2, OKLAHOMA

September 28, 1956

AIR MAIL

Re: Notice of Intention to Drill New Well
Form OG-51
Kerr-McGee Macie No. 3 Well
Apache County, Arizona

Mr. Ernst, State Land Commissioner
422 Arizona State Office Building
Phoenix, Arizona

Dear Mr. Ernst:

In compliance with the General Rules and Regulations Governing the Conservation of Oil and Gas in Arizona, Statewide Rules and Regulations, we are enclosing two (2) copies of Form OG-51, "Notice of Intention to Drill New Well" covering our Macie No. 3 Well in Apache County, Arizona. Two copies of our plat showing the location of this well are also enclosed.

Very truly yours,

KERR-McGEE OIL INDUSTRIES, INC.

B. G. Taylor

B. G. Taylor, General
Production Superintendent

BGT:jc

Enclosures

RECEIVED
OCT 1 1956
STATE LAND DEPT.

KERMAC

KERR-McGEE OIL INDUSTRIES, INC.
KERR-McGEE BUILDING
OKLAHOMA CITY 2, OKLAHOMA

September 28, 1956

Re: Form OG-50
State Land Department
State of Arizona

Mr. Ernst
State Land Commissioner
422 Arizona State Office Building
Phoenix, Arizona

Dear Mr. Ernst:

In compliance with Rule 38 of Article II, Chapter III, General Rules and Regulations Governing the Conservation of Oil and Gas in Arizona, Statewide Rules and Regulations, we are enclosing three (3) copies of OG-50, "Organization Report", setting out the nature of business and organization information as required by the rule.

Very truly yours,

KERR-McGEE OIL INDUSTRIES, INC.

B. G. Taylor

B. G. Taylor, General
Production Superintendent

BGT:jc

Enclosures

cc - Mr. Marion V. Gibbons
St. Johns, Arizona (w/encl)

Mr. Louis B. Whitney
Luhrs Tower
Phoenix, Arizona (w/encl)

11713

36

CLASS OF SERVICE

This is a fast message unless its deferred character is indicated by the proper symbol.

WESTERN UNION

(07) GRAM

1201

...MARSHALL, PRESIDENT

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

WA WUA042 PD=WUX OKLAHOMA CITY OKLA 27 1031AMC=
STATE LAND COMMISSIONER, ATTN MR ERNT=
422 ARIONA STATE OFFICE BLDG PHOENIX ARIZ=
AS PER TELLEPHONE CONVERSATION 9-26-56 WITH YOUR MR. DNCAN, KERR MCGEE OIL INDUSTRIES, INC. REQUESTS YOUR APPROVAL TO PROCEED WITH DEEPENDING ITS MACIE #3 WELL LOCATED 2110' FOM SOUTH AND 1800' FROM EAST LINES, SECTION 34-20W-26E APACHE COUNY, ARIZONA, FROM 833' PRESENT DEPTH, TO 2500' EXPECTED DEPTH. COMPLETED FORM OG-51 AND PLAT OF LOCATION FOLLOW BY MAIL. THIS WILL BE A LOCATIO WHICH WILL COMPLY WITH STATE WIDE RULES AND

36

CLASS OF SERVICE

This is a fast message unless its deferred character is indicated by the proper symbol.

WESTERN UNION TELEGRAM

W. P. MARSHALL, PRESIDENT

1201

SYMBOLS

DL=Day Letter

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REGULATIONS=

KERR MCGEE OIL IND IC B G TAYLOR=

34

9-26-56 #3 2110' 1800' 34-20W-26E 833' 2500' OG-51= =

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

CLASS OF SERVICE
This is a fast message unless its deferred character is indicated by the proper symbol.

WESTERN UNION
TELEGRAM

W. P. MARSHALL, PRESIDENT

1201

SYMBOLS
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SEP 18 AM 9 10

WA WA033 DL PD=WUX OKLAHOMAITY OKLA SEP 18 915A=
:THE STATE LANDCOMMISSIONERSTATE LAND DEPT=

:WOULD APPECIATE YOURFORWADING TWENTY COPIES EACH OF ALL
FORMS NECESSAR FOR THE APPLICATION TO DRILL, COMPLETION
REORKING,TRATING, LUGING,REPOTING OF PRODUCTION, AND
OTHER REPORT AS REQUIREDBY THE ARZONA LAND DEPARTMENT
GENERAL RULES AND REGULATIONS, ARTICLE 2, CHAPTER 111.
PLEASE FORWARD TO THEATTENTION OFTHE UNDERSIGNED=
:KERR MCGE OIL IND INC B G TAYLOR:

=2 111= 36

OCT--2-56 32995 • •50229 Ck — 25.00

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

STATEMENT RECEIPT OFFICE COPY

Kerr-McGee Oil Industries, Inc.
Kerr-McGee Building
Oklahoma City, Oklahoma

SECTION	TOWNSHIP	RANGE

KIND ENTRY	LEASE – REFERENCE NO.
22	36

ACCOUNT NO. GRANT FUND	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	36					Drilling Permit Fee			25 00
						for well #3, Section 34, 20N, 26E			

BILLING PERIOD FROM MO.	DAY	YR.	TO MO.	DAY	YR.	DATE BILLED MO.	DAY	YR.	DATE DUE MO.	DAY	YR.	TOTAL ACRES	TOTAL AMOUNT $
						10	02	56					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. C. 1939, 11-307

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 $

PENALTY AND INTEREST DISTRIBUTION					
			$		

36