

P-W

KERR MCGEE #4A STATE
SW-NE 32-20N-26E Apache County

378

s1

COUNTY Apache AREA Pinta Dome LEASE NO. State 2088-1 7 2113

WELL NAME Kerr-McGee #4A State

LOCATION NE SE SEC 32 TWP 20N RANGE 26E FOOTAGE 1400 FSL and 330 FFL

ELEV 5555' GR KB SPUD DATE 2-15-67 STATUS Completed 8-1-74 TOTAL 804'
COMP. DATE 3-6-67 DEPTH 834'

CONTRACTOR

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
<u>7 5/8</u>	<u>207'</u>	<u>125 SKS</u>	<u>NS</u>	<u>x</u>
<u>4 1/2</u>	<u>834'</u>	<u>150 SKS</u>		

DRILLED BY CABLE TOOL _____
PRODUCTIVE RESERVOIR Coconino 793-96'
INITIAL PRODUCTION _____

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
<u>Chinle</u>	<u>0</u>		<u>x</u>	
<u>Chinle-Conglomerate</u>	<u>550'</u>			
<u>Shinerump</u>	<u>632'</u>			
<u>Moencopi</u>	<u>770'</u>			
<u>Coconino</u>	<u>793'</u>			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
<u>IES</u>	<u>793-796</u>	<u>793-796</u>	<u>SAMPLE DESCRP.</u>
			<u>SAMPLE NO. 1416/*</u>
			<u>CORE ANALYSIS</u>
			<u>DSTs</u>
			<u>*Tucson 2084</u>

REMARKS Existing State #4 Well (Permit 38 to be shut-in upon successful completion of this well.

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

WATER WELL ACCEPTED BY _____

BOND CO. Firemen's Ins. Co. BOND NO. 158 98 10-528
DATE _____ ORGANIZATION REPORT 7-14-60
BOND AMT. \$ 25,000 CANCELLED _____
FILING RECEIPT 9472 LOC. PLAT x WELL BOOK x PLAT BOOK x
API NO. 02-001-20003 DATE ISSUED 2-6-67 DEDICATION E/2 NW/4 NE/4 SW/4 of
Sec 32; SE/4 SW/4 E/2 SW/4 of Sec 29

PERMIT NUMBER 378

(over)

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

Federal, State or Indian Lease Number or name of lessor if fee lease **2088 - 1 & 2113** State **State** Well Number **4 - A** Field & Reservoir **Pinta Dome**

Location **1,400° E8L and 330° E8L of** County **Apache**

Sec. TWP-Range or Block & Survey **Sec. 32, T20N, R26E**

Date spudded **2-15-67** Date total depth reached **2-21-67** Date completed, ready to produce **2-24-67** Elevation (DF, BKB, RT or Gr.) **5555 GR** feet Elevation of casing hd. flange **feet**

Total depth **834°** P.B.T.D. **804°** 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 **793° - 796°** Rotary tools used (interval) **all** Cable tools used (interval) **None**

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

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

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	11"	7 5/8"	24	207.5'	125	None
Production	6 3/4"	4 1/2"	9.5	834'	150	None

TUBING RECORD

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
in.	ft.	ft.	in.	ft.	ft.		
None					None		

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval
4	1/2" Jet	793° - 796°	None	

INITIAL PRODUCTION

Date of first production **2-24-67** Producing method (Indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:) **Flowing**

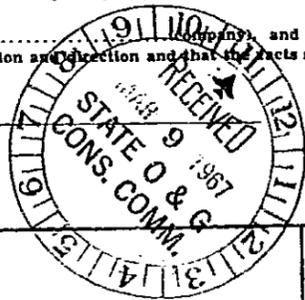
Date of test **2-24-67** Hrs. tested **4** Choke size **1"** Oil prod. during test **0** bbls. Gas prod. during test **7** MCF Water prod. during test **0** bbls. Oil gravity **0° API (Corr)**

Tubing pressure **0** Casing pressure **42** Cal'd rate of Production per 24 hrs. **0** Oil **0** bbls. Gas **42** MCF Water **0** bbls. Gas-oil ratio **0**

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

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the **Engineer** of the **Kerr-McGee Corporation**, 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 **March 6, 1967** Signature **C. J. Bredon**



Permit No. **378**

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Well Completion or Recompletion Report and Well Log
Form No. 4 File One Copy

DETAIL OF FORMATIONS PENETRATED *

Formation	Top	Bottom	Description*
Chinle	0'	632'	Shale
Chinle - Conglomerate	550'		
Shinerump	632'	770'	Shale
Moencopi Stray Sand	770'	793'	Shale and Sand
Coconino	793'	834'	Sand
			No cores or drill stem tests.

* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.

PLUGGING RECORD

Operator Kerr-McGee Corporation		Address Box 250, Amarillo, Texas 79111	
Federal, State, or Indian Lease Number, or lessor's name if fee lease 2088-1 and 2113		Well No. 4-A	Field & Reservoir Pinta Dome Field, Coconino Sand
Location of Well 1400' FSL & 330' FEL		Sec-Twp-Rge or Block & Survey Sec.32 - T20N-R26E	
County Apache		Character of well at completion (initial production):	
Application to drill this well was filed in name of Kerr-McGee Corp.	Has this well ever produced oil or gas Gas	Oil (bbls/day) 0	Gas (MCF/day) 14.0
Date plugged: 8-1-74	Total depth 804' PB	Amount well producing when plugged: Oil (bbls/day) 0	Gas (MCF/day) 0
		Water (bbls/day) 0	Dry?
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
Moenkopi	Gas	770' to 776' closed	
Coconino	Gas	793' to 796' Open	50 sxs Class "B" Cem. Squeezed below retainer @ 740'. Cem.Plug from 740' to surface.

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 5/8" 24#	207.5'	0	207.5		
4 1/2", 9.5#	834'	0	834'		Float Collar & Cement Shoe

Was well filled with mud-laden fluid, according to regulations?
Filled to surface with cement.

Indicate deepest formation containing fresh water.
Coconino

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

Name	Address	Direction from this well:
R.C. Spurlock & Sons	General Delivery, Navajo, Arizona	

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 Associate Engineer 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.

August 5, 1974
Date

James C. Brothers
Signature **James C. Brothers**

RECEIVED

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

AUG 12 1974

Plugging Record
File One Copy

Permit No. **378**

O & G CONS. COMM.

Form No. 10

APPLICATION TO ABANDON AND PLUG

FIELD Pinta Dome Field
OPERATOR Kerr-McGee Corporation ADDRESS P.O.Box 250, Amarillo, Texas 79105
Federal, State, or Indian Lease Number or Lessor's Name if Fee Lease 2088-1 and 2113 State WELL NO. 4-A
SURVEY Sec. 32, T20N, R26E SECTION 32 COUNTY Apache
LOCATION 1400' FSL and 330' FEL

TYPE OF WELL Gas (Helium) TOTAL DEPTH 834'
(Oil, Gas or Dry Hole)
ALLOWABLE (If Assigned) None
LAST PRODUCTION TEST OIL 0 (Bbls.) WATER 0 (Bbls.)
GAS 0 (MCF) DATE OF TEST 1-1-73
PRODUCING HORIZON Coconino Sand PRODUCING FROM 793' TO 796'

1. COMPLETE CASING RECORD
Surface-7 5/8", 24#, Cemented @ 207.5' w/ 125 sxs (circ 20 sxs)
Production-4 1/2", 9.5#, cemented @ 834' w/ 150 sxs (calculated top of cement @ surface)

2. FULL DETAILS OF PROPOSED PLAN OF WORK
1. Set Cement retainer at 740'. Squeeze 50 sxs cement below retainer.
 2. Equalize 20 sxs cement from 740' to 500'
 3. Pull tubing.
 4. Fill casing to surface with cement.
 5. Erect marker of 4" pipe per rule 202A.7.

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 Warren E. Richardson *Warren E. Richardson*
Name
District Manager
Title
P. O. Box 250, Amarillo, Texas 79105
Address
July 6, 1974
Date

Date Approved 7-8-74
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By: *W. E. Richardson*

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

Permit No. 378

RECEIVED

JUL 08 1974

O & G CONS. COMM.

1

1

Handwritten notes:
 8-11-61
 11-11-65
 5-2-66
 8-27-64
 1-22-64
 6-16-63
 10-1-62

KERR-McGEE CORPORATION EXHIBIT NO. 6

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

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

Handwritten notes:
 378
 11-11-65
 5-2-66
 8-27-64
 1-22-64
 6-16-63
 10-1-62

N.M. - Not measured.

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GAS WELL OPEN FLOW POTENTIAL TEST REPORT

4-POINT TEST

Initial Test Annual Special

Field Pinta Dome		Reservoir Coconino Sand		Test Date 10-7-67	
Operator Kerr-McGee Corporation		Lease State		Well No. 4-A	
County Apache	Location 1400° FSL & 330° FEL of Section 32, 20N, 26E			Completion Date 2-24-67	Total Depth 804° PB
Producing Thru TBG. Size X	Reservoir Temperature °F 834°	Wellhead Temperature °F 4 1/2	CSG. Size 4 1/2	Wt/Ft. 9.5	I.D. 4.090
TBG. Size X	Wt/Ft. 9.5	O.D. 4.090	I.D. 4.090	Set @ 834°	Gas Gravity (Separator) 0.903
Pipeline Connection Kerr McGee Corporation			Type Taps 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. Roots psig	Diff. h Roots	Tubing Press. psig	Casing Press. psig	Flowing Temp. °F
SI	24			Roots PSIG			65.5	
1.	19	4	1/4	4.65 42.2	1.00		42.5	49.6
2.	5	4	1/4	4.57 40.3	2.65		40.6	63.4
3.	8	4	1/4	3.95 27.2	3.70		27.5	69.4
4.	10	4	1/4	3.79 24.3	4.78		25.0	47.2

FLOW CALCULATIONS

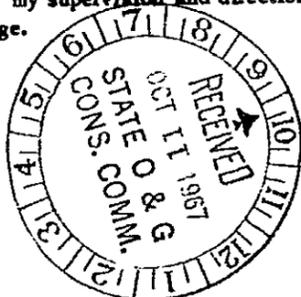
No.	Coefficient (24 Hr.)	$\sqrt{\frac{h}{w}}$	$\frac{p}{m}$	Pressure psia	Flow Temp. Factor $\frac{F}{t}$	Gravity Factor $\frac{F}{p}$	Compress. Factor $\frac{F}{pv}$	Rate of Flow Q MCF/D
1.	351	4.65		54.0	1.0102		1.000	1.649
2.	351	12.11		52.1	0.9967		1.000	4.237
3.	351	14.62		39.0	0.9911		1.000	5.086
4.	351	18.12		36.1	1.0186		1.000	6.428

$P_c = 77.3$ psia $P_c^2 = 5.975$ PRESSURE CALCULATIONS $F_c = 1.439$; $(1-e^{-s}) = .051$

	$\frac{P_w}{P_t}$ (psia)	P_t	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2 \times 10^{-5}$	P_t^2	$P_t^2 - P_w^2$	Cal. $\frac{P_w}{P_c}$	$\frac{P_w}{P_c}$
1.		2.948	.002	.000004	.0000002	2.948	3.027	54.3	.7025
2.		2.746	.006	.000036	.0000018	2.746	3.229	52.4	.6779
3.		1.544	.007	.000049	.0000025	1.544	4.431	39.3	.5084
4.		1.354	.009	.000081	.0000041	1.354	4.621	36.8	.4761

Absolute Potential 12.8 MCF/D 3.047

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



E.C. Beish
Signature

STATE OF ARIZONA OIL & GAS
CONSERVATION COMMISSION

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

Form No. **18** File two copies

Effective _____ 19__

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INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable.

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

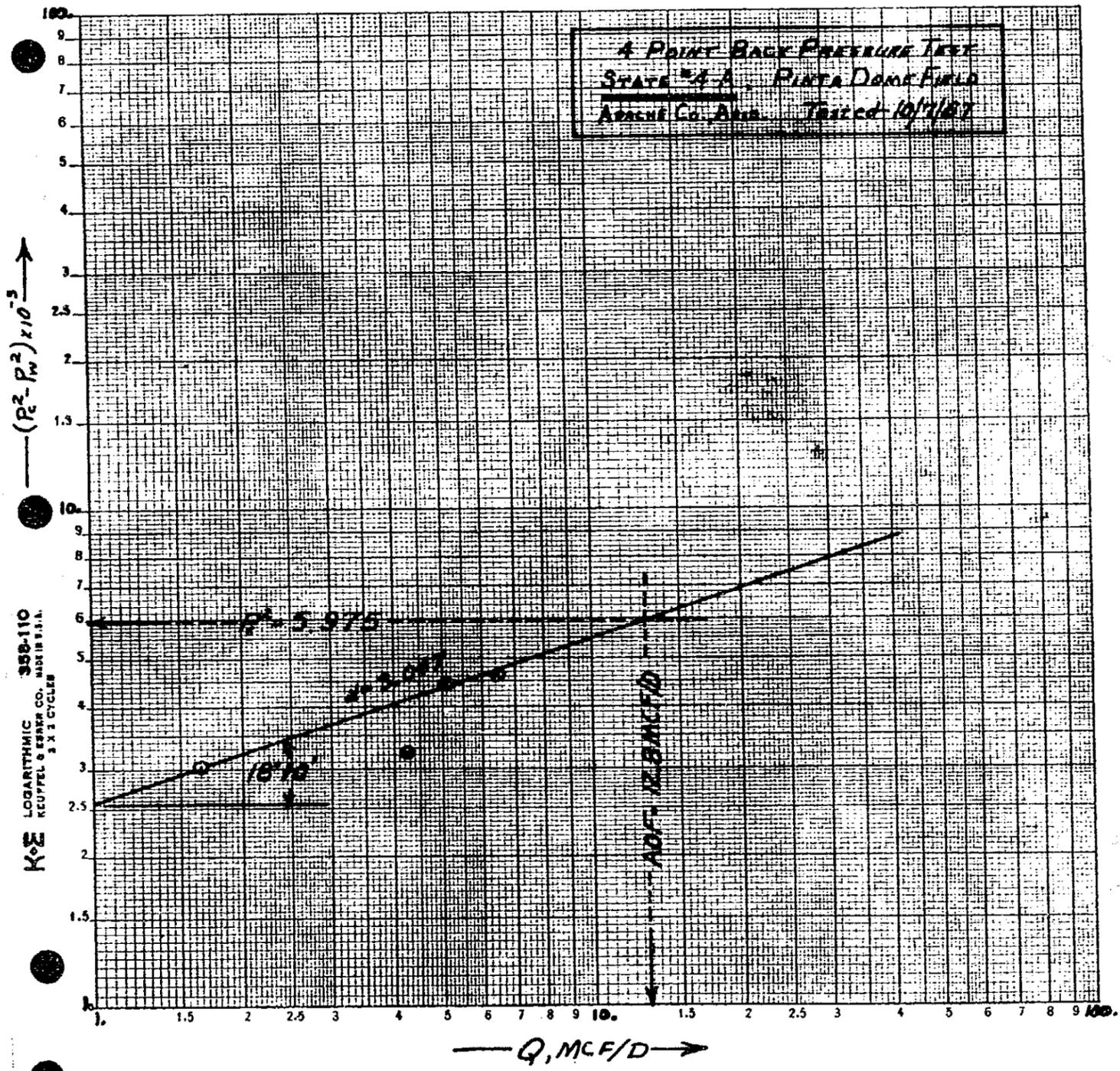
NOMENCLATURE

- Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w), MCF/d. @ 15.025 psia and 60°F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- P_w = Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing). psia
- P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- P_m = Meter pressure, psia
- h_w = Differential meter pressure, inches water
- F_E = Gravity correction factor
- F_t = Flowing temperature correction factor
- F_{pv} = Supercompressibility factor
- n = Slope of back pressure curve
- GL_{mix} = G times average producing length of flow string

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

F_c , Q and $1 - e$ are factors utilized in calculating the pressure drop due to friction.

4 POINT BACK PRESSURE TEST
 STATE OF ALA., PIETA DOME FIELD
 ADAMS CO. AREA. TESTED 10/2/67



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DRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Kerr-McGee Corporation
 2. OIL WELL GAS WELL OTHER (Specify) _____
 3. Well Name State No. 4-A
 Location 1,400' FSL and 330' FKL of
 Sec. 32 Twp. 20N Rge. 26E County Apache, Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease 2088-1 and 2113 State _____

5. Field or Pool Name Pinta Dome

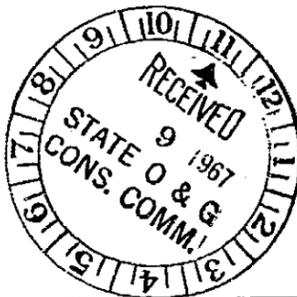
6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

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 checked="" type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	DIRECTIONAL DRILL	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	PERFORATE CASING	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>	MONTHLY PROGRESS	<input checked="" type="checkbox"/>
(OTHER) _____				REPAIRING WELL	<input type="checkbox"/>
				ALTERING CASING	<input checked="" type="checkbox"/>
				ABANDONMENT	<input type="checkbox"/>
				(OTHER) <u>Casing tests</u>	<input 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.)

Spudded at 1 PM, 2-15-67. Drilled 11" hole to 212'. Set 7 5/8" OD, 24#/ft., J-55, casing at 207.5' RKB. Cemented with 125 sacks of common cement plus 3% calcium chloride and 1/4# flocele per sack. Circulate out 20 sacks. Plug down at 10:30 PM, 2-17-67. After waiting on cement for 17 hours, tested casing with 1,000# for 30 minutes. Held alright. Drilled 6 3/4" hole to 834'. Set 4 1/2" OD, 9.5#/ft., J-55, casing at 834' RKB. Cemented with 150 sks of common cement plus 6% gel. Plug down at 3 PM, 2-22-67. After waiting on cement for 20 hours, tested casing with 1500# for 30 minutes. Held alright. On 2-24-67, perforated from 793' - 796' with 4 jets per foot. Tested well on 2-24-67 with 2" orifice tester and 1" plate, produced 7 MCF in 4 hours for rate of 42 MCFPD. Well is shut in waiting on pipe line connection



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

Signed C. J. Breiden

Title Engineer

Date March 6, 1967

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

Permit No. 378

2-27-67

Telcon, Mr. Otto Barton

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

Drilled to 834 KB
Ran 4½" J55 casing, set at 833.66 KB, circulated 150 sack
cement

perforated 798-800 KB, 4 shots per foot

Results: about 30MCF line pressure per day
(about 45 MCF if wide open)

February 21, 1967

Otto Barton, District Supt., telephoned

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

Application to Drill showed 200 sax cement for area below surface pipe.

Surface pipe has been set and cement circulated. Hole is 6-3/4"
and pipe is 4 1/2". Therefore 200 sax would be excessive. Will probably
circulate 100-150 sax thru the pipe and thus protect all zones.

WELL SITE CHECK

By JB
Date 2-13-67

Contractor _____	Person(s) Contacted _____
Spud Date _____	<u>Chas Burton</u>
Type Rig _____	Rotary Cable Tool Present Operations _____
Samples _____	_____
Pipe _____	Drilling with Air Mud _____
Water Zones _____	Size Hole _____
Lost Circ. Zones _____	Size Drill Pipe _____
Formation Tops _____	Type Bit _____
Cores, Logs, DST _____	No. Bit _____ Drilling Date _____
_____	Formation _____
Crews _____	Lithology _____

REMARKS, PHOTO, MAP

Telephone;
plan to spud 2-13-67 or
2-14-67

WELL NAME 10 Ken Mc
A A State

Permit No. 378
Confidential: yes No

APPLICATION FOR PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER

APPLICATION TO DRILL DEEPEN PLUG BACK RE-ENTER OLD WELL

NAME OF COMPANY OR OPERATOR Kerr-McGee Corporation DATE February 4, 1967

Address P. O. Box K City Surray State Texas

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number or name of lessor, if fee lease 2088-1 & 2113 State State Well number 4-A Elevation (ground) 5,555'

Well location and acreage dedicated to the well (give footage from section lines) 1,400' FSL and 330' FEL of Section—township—range or block & survey Section 32, T20N, R26E

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

Distance, in miles, and direction from nearest town or post office 5 miles southwest of Navajo, Arizona

Nearest distance from proposed location to property or lease line: 330 feet Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: 2,982 feet

Proposed depth: 1,100' Rotary or cable tools Rotary Approx. date work will start unit February 10, 1967

Number of acres in MEGX Unit 680 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 and amount of bond On file \$ 10,000.00 Organization Report On file Filing Fee of \$25.00 Yes

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)

Acreage for well is Pinta Dome Unit I consisting of the E/2, the E/2 of NW/4 and the NE/4 of SW/4 of Section 32 and SE/4 and E/2 of SW/4 of Section 29, T20N, R26E, Apache County, Arizona.
Upon successful completion of this State No. 4-A, the existing State No. 4 will be shut in to avoid water production.

*Fill in Proposed Casing Program on reverse side

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

J. Breder
Signature

February 4, 1967
Date

Permit Number: 378
Approval Date: 2-6-67
Approved By: John Kammister
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 and Plat
File Two Copies

Form No. 3



API # 02-001-20003

(Complete Reverse Side)

- Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
- A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
- All distances shown on the plat must be from the outer boundaries of the Section.
- Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES NO
- If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES NO If answer is "yes," Type of Consolidation _____
- If the answer to question four is "no," list all the owners and their respective interests below:

Owner	Land Description
	<p style="text-align: center;">CERTIFICATION</p> <p>I hereby certify that the information above is true and complete to the best of my knowledge and belief.</p> <p>Name <u>E. G. Brewer</u> Position <u>Engineer</u> Company <u>Kerr-McGee Corporation</u> Date <u>February 4, 1967</u></p> <p>I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.</p> <p>Date Surveyed _____ Registered Professional Engineer and/or Land Surveyor _____</p> <p>Certificate No. _____</p>

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
7-7/8"	26.4	J-55	0	200'	0' - 200'	100
4 1/2"	9.5	J-55	0	1,100'	500' - 1,100'	200



PERMIT TO DRILL

This constitutes the permission and authority from the
OIL AND GAS CONSERVATION COMMISSION,
STATE OF ARIZONA,

To: KERR MC GEE CORPORATION
(OPERATOR)

to drill a well to be known as

KERR-MC GEE #4A STATE
(WELL NAME)

located 1400' FSL and 330' FEL (SW NE)

Section 32 Township 20N Range 26E, Apache County, Arizona.

The E/2NW/4, NE/4SW/4 of Sec. 32; SE/4SW/4, E/2SW/4 of Sec. 29 of said
Section, Township and Range is dedicated to this well.

Said well is to be drilled substantially as outlined in the attached Application and must be drilled
in full compliance with all applicable laws, statutes, rules and regulations of the State of Arizona.

Issued this 6th day of February, 1967.

OIL AND GAS CONSERVATION COMMISSION

By John K. Linnister
EXECUTIVE SECRETARY

PERMIT No. 378

Verbally approved 2-3-67
RECEIPT NO. 9472

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

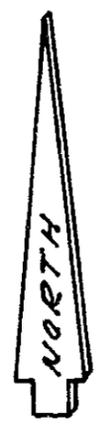
FORM NO. 27

PLAT OF PROPOSED WELL LOCATION
 IN SECTION 32, T20N, R26E, G. & S.R.M.
 NEAR NAVAJO, ARIZONA

Proposed Well Location
 Ground Elev. 5555.2

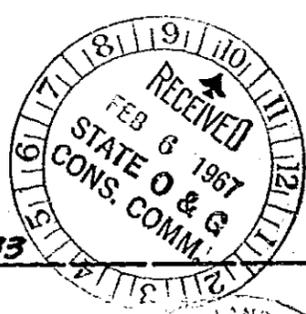
330'

1400'



T20N, R26E
 G & S R M

32 33



12

NOTE: Field Tie (S.E. Cor. Sec. 32)
 established by projecting section
 lines from other section corners
 established by licensed surveyors.

Elevations taken from Arizona
 Highway Department Bench Mark

PREPARED BY:
 J. G. MARTINEZ & ASSOC.
 ENGINEERS—SURVEYORS
 N. M. P. E. & L. S. LIC. NO. 1765
 GALLUP NEW MEXICO

Scale 1" = 200'
 Date 2-3-67

Drawing
 No. QSW-27A

378



Fife Symington
Governor

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



Larry D. Fellows
Director and State Geologist

October 28, 1992

Mr. Merle Bohlander
1600 Turtle Creek
Pampa, Texas 79065

Dear Merle:

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

Sincerely,

Steven L. Rauzi
Oil & Gas Program Administrator

Enclosures

WA



KERR-McGEE CORPORATION

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

PHONE
806 376-7256

August 6, 1974

State of Arizona
Oil and Gas Conservation Commission
4515 North Seventh Ave
Phoenix, Arizona 85013

ATTENTION: Mr. John Bannister

Re: Plugging Record: State #4-A
Pinta Dome Field
1400' FSL and 330' FEL
Section 32 - T20N - R26E
Apache County, Arizona

Dear Mr. Bannister:

Attached please find two (2) copies of Arizona Oil and Gas Conservation Commission Form No.10, Plugging Record, for Kerr-McGee Corporation's State Well #4-A in the Pinta Dome Field, Apache County, Arizona.

Very truly yours,

KERR-McGEE CORPORATION

James C. Brothers

James C. Brothers
Associate Engineer

JCB:dt
Attachment

378

RECEIVED
AUG 12 1974
O & G CONSV. COMM.



KERR-McGEE CORPORATION

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

July 6, 1974

PHONE
806 376-7256

State of Arizona
Oil and Gas Conservation Commission
4515 North Seventh Avenue
Phoenix, Arizona 85013

Attention: Mr. John Bannister

Re: Application to Plug and
Abandon: State #4A
Pinta Dome Field
1400' FSL and 330' FEL
Section 32, T20N, R26E
Apache County, Arizona

Dear Mr. Bannister:

Attached please find original and one (1) copy of Arizona
Oil and Gas Conservation Commission form number 9 to Plug
and Abandon Kerr-McGee Corporation's State Well #4A in the
Pinta Dome Field, Apache County, Arizona.

This well has become uneconomical to produce. A well
completion report and electric log was filed with your
office March 6, 1967.

Your early approval of the subject application is respect-
fully requested.

Very truly yours,

KERR-McGEE CORPORATION

William G. Callaway

William G. Callaway
District Engineer
Southwestern District

378

WGC/EC/mm

Attachments

RECEIVED

JUL 08 1974

O & G CONS. COMM.

June 12, 1968

Mr. Otto C. Barton
Larr-McGee Corporation
P. O. Box K
Jumray, Texas 75086

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, 1968.

Sincerely,

John Bannister
Executive Secretary

JAL:jf

X [10
39
36
34
33]
X [32
31
30
29]
6-12-68 (05/10/68)

KERR-McGEE
POST OFFICE BOX 7000 • SURRAY, TEXAS 79089

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.

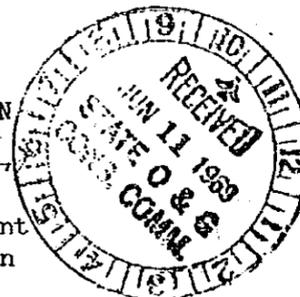
Shut in pressures in this field are very low with none exceeding 60 p.s.i.g. Plant operation makes gas flow very erratic, rate of flow and line pressures are very seldom steady for over a few hours at one time. Also when plant is in full operation, line pressures and well operating pressures are never more than 1 to 5# less than 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
Otto C. Barton
Division Superintendent
Oil and Gas Production



OCB/ds

378

Handwritten notes:
X { 1
3
36
379
378
X {
28
21
Kerr-McGee State
Oil and Gas Permit



X-Lambert
X-Chris

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
Kerr-McGee Fee #2
Kerr-McGee State #1 (Sec. 34 of 20826)
Kerr-McGee State #2
Kerr-McGee State #3A
Kerr-McGee State #4A
Eastern State #1-10
Eastern State #1-28
Eastern State #1-2

Permit #10
Permit #39
No Permit
Permit #36 } X
Permit #349 }
Permit #378 }
Permit #80 } X
Permit #88 }
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.

Page 2
Mr. Barton
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.

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:

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

CANCELLED

DATE 10-24-68

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

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

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



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

378

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 almost impossible to follow testing procedures 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 operation 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.

Yours very truly,
Kerr-McGee Corporation
Otto C. Barton
Otto C. Barton
Division Superintendent of Oil & Gas Prod.
Box K-Sunray, Texas-79086

Granted
5-29-68
JB
MAY 23 1968
OIL & GAS
STATE COMMISSION
RECEIVED



KERR-McGEE CORPORATION

POST OFFICE BOX "K" • SUNRAY, TEXAS 79086

March 6, 1967

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

Attention: Mr. John Bannister

Gentlemen:

Enclosed are two copies of your form No. 25, Sundry Notices and Reports on Wells, Two copies of your form No. 4, Well Completion or Recompletion Report and Well Log, and two copies of the Induction - Electric Log for the Kerr-McGee Corporation State No. 4-A, located 1,400' FSL and 330' FEL of Section 32, T20N, R26E, Apache County, Arizona. One set of samples are being sent to 4 Corners Sample Cut, 641 W. Broadway, Farmington, New Mexico.

Yours very truly,

KERR-McGEE CORPORATION

C. J. Breeden

C. J. BREEDEN

CJB/s

Enclosures:



February 7, 1967

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

Attention: Mr. Otto K. Barton

Re: Kerr-McGee #1 Navajo
SE SW 32-36N-30E Apache County, Arizona
Permit 377

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

Gentlemen:

Enclosed is approved copy of Form 17, Operator's Certificate of Compliance and Authorization to Transport Oil or Gas From Lease, covering the #1 Navajo well.

Also enclosed are approved Application to Drill, Drilling Permit, and Receipt 9472, for the #4A State well.

Very truly yours,

John Bannister
Executive Secretary
mr
enc



KERR-McGEE CORPORATION

POST OFFICE BOX "K" • SUNRAY, TEXAS 79086

February 4, 1967

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

Attention: Mr. John Bannister

Gentlemen:

Enclosed are two copies of Form No. 3, Application to Drill, for the Kerr-McGee Corporation State No. 4-A well located 330' FSL and 1,400' FSL of Section 32, T20N, R26E, Apache County, Arizona. Upon successful completion of this well, the existing State No. 4 well will be shut down to avoid water production. Mr. Bannister has given verbal approval to Mr. Barton of Kerr-McGee to drill this well. Verbal approval was given February 3, 1967. Also enclosed is a draft of \$25.00 for the filing fee.

Two copies of the surveyors plat are being sent to your office by J. G. Martinez & Associates of Gallup, New Mexico.

Yours very truly,
KERR-McGEE CORPORATION
C. B. Breeden
C. B. Breeden

Enclosures

