

Release Date 11-25-67

CONFIDENTIAL

P.M.

Kerr-McGee #6 Santa Fe 408
NW NW 4-19N-29E Apache County

sl

COUNTY Apache AREA 10 mi S. Sanders LEASE NO. Santa Fe Fee

WELL NAME Kerr McGee #6 Santa Fe

LOCATION NW NW SEC 9 TWP 19N RANGE 29E FOOTAGE 560 FNL 660' FWL

ELEV 6244 GR _____ KB _____ SPUD DATE 5-15-67 STATUS _____ TOTAL _____
COMP. DATE 5-25-67 DEPTH 1388'

CONTRACTOR Company Rig

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY	<u>x</u>
<u>7</u>	<u>653'</u>			DRILLED BY CABLE TOOL	
				PRODUCTIVE RESERVOIR	
				INITIAL PRODUCTION	<u>Dry</u>

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Dune	Surface		<u>x</u>	
Chinle	630'			
Coconino	1377'			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
<u>IE</u>			SAMPLE DESCRP. _____
			SAMPLE NO. _____
			CORE ANALYSIS _____
			DSTs _____
REMARKS <u>Strat Test</u>			APP. TO PLUG <u>x</u>
			PLUGGING REP. <u>x</u>
			COMP. REPORT <u>x</u>

WATER WELL ACCEPTED BY _____

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

BOND AMT. \$ 25,000 CANCELLED _____ DATE _____

FILING RECEIPT 9500 LOC. PLAT x WELL BOOK x PLAT BOOK x

API NO. 02-001-20032 DATE ISSUED 5-5-67 ORGANIZATION REPORT 7-14-60

DEDICATION All

PERMIT NUMBER 408

(over)

CONFIDENTIAL

Release Date: 11-25-67

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 **Kerr-McGee Building, Okla. City, Okla.**

Federal, State or Indian Lease Number or name of lessor if fee lease **Santa Fe** Well Number **6** Field & Reservoir **Wildcat**

Location **560' FNL, 660' FWL** County **Apache**

Sec. TWP-Range or Block & Survey **Sec. 9-19N-29E**

Date spudded **5-15-67** Date total depth reached **5-23-67** Date completed, ready to produce _____ Elevation (DF, RKB, RT or Gr.) **6244** feet Elevation of casing hd. flange _____ feet

Total depth **11388** P.B.T.D. _____ Single, dual or triple completion? _____ If this is a dual or triple completion, furnish separate report for each completion.

Producing interval (s) for this completion _____ Rotary tools used (interval) **0-1388** Cable tools used (interval) _____

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

Type of electrical or other logs run (check logs filed with the commission) **Induction** Date filed _____

CASING RECORD

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

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Surface	9-7/8	7"	20#	653		None

TUBING RECORD

LINER RECORD

Size in.	Depth set ft.	Packer set at ft.	Size in.	Top ft.	Bottom ft.	Sacks cement	Screen (ft.)

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval

INITIAL PRODUCTION

Date of first production _____ Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)

Date of test	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity ° API (Corr)

Tubing pressure	Casing pressure	Cal'ed rate of Production per 2 1/2 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio

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

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the _____ Geologist of the _____ of the _____ (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Date **July 10, 1967**

Signature _____

CONFIDENTIAL

Release Date _____

Permit No. **408**

Form No. 4

File One _____

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
Dune	0	630	Sd
Chinle	630		Sd & sh
Coconino	1377		Sd
			<p align="center"> <i>6244</i> <i>1377</i> <hr/> <i>2486</i> </p>

* 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 **Kerr-McGee Building, Oklahoma City, Okla.**

Federal, State, or Indian Lease Number, or lessor's name if fee lease. **Santa Fe** Well No. **6** Field & Reservoir **Wildcat**

Location of Well **560' FNL, 660' FWL** Sec-Twp-Rge or Block & Survey **Sec. 9-19N-29E** County **Apache**

Application to drill this well was filed in name of **Kerr-McGee Corporation** Has this well ever produced oil or gas **No** Character of well at completion (initial production): Oil (bbls/day) Gas (MCF/day) **Dry? X**

Date plugged: **5-25-67** Total depth **1388** Amount well producing when plugged: Oil (bbls/day) Gas (MCF/day) Water (bbls/day)

Name of each formation containing oil or gas. Indicate which formation open to well-bore at time of plugging	Fluid content of each formation	Depth interval of each formation	Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount cement
			0-15 w/2 sks
			625-705 w/10 sks
			725-775 w/8 sks
			780-825 w/8 sks
			960-1020 w/8 sks
			1155-1190 w/5 sks
			1290-1340 w/7 sks

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"	653	0	653		

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

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

Name	Address	Direction from this well:
Kerr-McGee Corporation	Oklahoma City, Oklahoma	

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 **Geologist** 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.

Date **6-28-67**

CONFIDENTIAL

Release Date _____

Permit No. **408**

APPLICATION TO ABANDON AND PLUG

FIELD Wildcat
OPERATOR Kerr-McGee Corporation ADDRESS Oklahoma City, Oklahoma
Federal, State, or Indian Lease Number or Lessor's Name if Fee Lease Santa Fe WELL NO. 6
SURVEY 19N-29E SECTION 9 COUNTY Apache
LOCATION 560' FNL, 660' FWL

TYPE OF WELL Strat test TOTAL DEPTH 1388
(Oil, Gas or Dry Hole)

ALLOWABLE (If Assigned)
LAST PRODUCTION TEST OIL (Bbls.) WATER (Bbls.)
GAS (MCF) DATE OF TEST

PRODUCING HORIZON PRODUCING FROM TO

1. COMPLETE CASING RECORD
7" at 653'

2. FULL DETAILS OF PROPOSED PLAN OF WORK Casing left in hole -
plugs 0-15, 625-705, 725-775, 780-825, 960-1020,
1155-1190, 1290-1340

If well is to be abandoned, does proposed work conform with requirements of Rule 202? Yes If not, outline proposed procedure above.

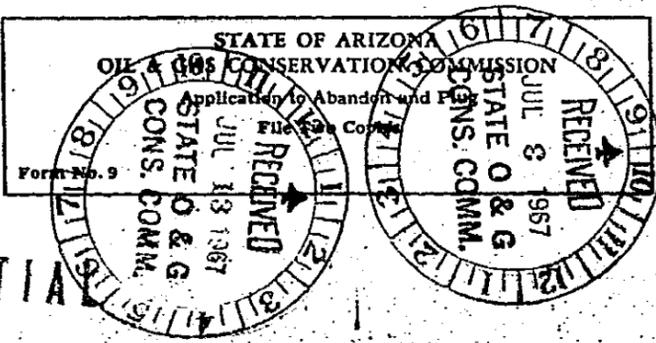
DATE COMMENCING OPERATIONS 5-25-67

NAME OF PERSON DOING WORK Kerr-McGee ADDRESS Okla. City, Okla.

CORRESPONDENCE SHOULD BE SENT TO John C. Meyer
Name Geologist
Title 710 Kerr-McGee Bldg., Okla. City, Okla.
Address
Date June 28, 1967

Date Approved
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By:

Permit No. 408



CONFIDENTIAL

Release Date

5-25-67 Re: Kerr-McGee #6 Santa Fe strat test

Telcon w/ Norman Schoenhols (transferred by Kerr-McGee from
New Orleans. Yesterday his first
day on the job)

Company decided to go ahead and log as far as possible.
Logged to 1178.

Will plug as follows:

Surface - 15' plug in casing

625 - 705
686-694 water sand according to log

725 - 775
735-764 water sand according to log

780- 825
790 - 812 water sand according to log

960 - 1020
970-1008 water sand according to log

1155- 1190 (or to bottom to make a 50' plug.)
1168-1178 water sand according to log

If they can get drill stem deeper will put 50' plug there, and
any other stratas they encounter.

Intervals will be filled with heavy mud.

Telcon w/Mr Schoenhols, Kerr-McGee
(Sanders teleph no. 688-2754)

May 24, 1967

Re: #6

T.D. 1388, at one time. May be around 1100. Keeps caving.

Want to junk--will not be able to log.

Thinks Coconino at 1377. Bottom fell out at 1,380-1385.
(Mud engineer said worst lost circulation he'd ever seen)

Have lost all of their mud. Have not been able to tell if
there has been any water. Have been caving and bridging
throughout. Losing the mud at bottom.

Casing set to 653.

Coincidentally Dr. Pye called. Based on this above info he
suggested:

If losing mud probably communication; but if losing mud
all the way down, then communication whether plugged or
not.

If just losing mud at bottom: a bridge with a 50' plug;
fill with heavy mud; since casing uncemented, a 50' plug
at bottom of casing; fill with heavy mud; surface plug and
marker. Or a 50' plug on current bottom.

Relayed this to Kerr-McGee accordingly.

Revised
753-
5531

WELL SITE CHECK

By JMF
Date 5-16-67

Contractor Kerr McGee Rig Person(s) Contacted John Meyer

Spud Date _____

Type Rig Fairbank 1500 Rotary Cable Tool Present Operations prep to ream

Samples No samples taken

Pipe _____ Drilling with Air Mud

Water Zones _____ Size Hole 4 3/4

Lost Circ. Zones _____ Size Drill Pipe _____

Formation Tops _____ Type Bit _____

Cores, Logs, DST _____ No. Bit _____ Drilling Rate _____

Formation _____

Crews _____ Lithology _____

REMARKS, PHOTO, MAP

Sanders

11.6 miles
#6

plan to ream and set csg (about 6") through sand dune @ surface. Will not cement. Just allow sand to collapse around csg. Then drill out with 4 3/4."

WELL NAME Kerr McGee Santa Fe #6

Permit No. _____
Confidential: yes (No)

APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

APPLICATION TO DRILL

RE-ENTER OLD WELL

Kerr-McGee Corporation

NAME OF COMPANY OR OPERATOR

710 Kerr-McGee Building Oklahoma City Oklahoma

Address City State

Kerr-McGee (Company Tools)

Drilling Contractor

Kerr-McGee Building, Oklahoma City, Oklahoma

Address

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or if fee lease, name of lessor Santa Fe	Well number Strat Test #6	Elevation (ground) 6100 est.
Nearest distance from proposed location to property or lease line: 660 feet	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: feet	
Number of acres in lease: 640	Number of wells on lease, including this well, completed in or drilling to this reservoir:	
If lease, purchased with one or more wells drilled, from whom purchased:	Name	Address
Well location (give footage from section lines) 1980 ESI, 660 FWL See Plat	Section—township—range or block and survey 49 19N 29E	Dedication (Comply with Rule 105) 640
Field and reservoir (if wildcat, so state) Mineral Strat Test	County Apache	
Distance, in miles, and direction from nearest town or post office 10 mi. South Sanders, Arizona		
Proposed depth: 1400	Rotary or cable tools Rotary	Approx. date work will start April 27, 1967
Bond Status on file Amount	Organization Report On file <input checked="" type="checkbox"/> Or attached	Filing Fee of \$25.00 Attached <input checked="" type="checkbox"/>

Remarks:

Mineral Strat Test
to drill 4-3/4" hole from surface to total depth

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

Signature

April 25, 1967

Date

Permit Number: 408

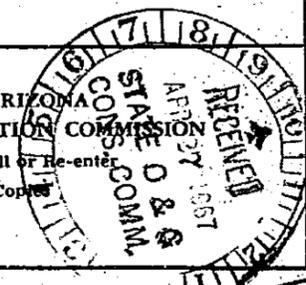
Approval Date: 5-5-67

Approved By: John Bannister

Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

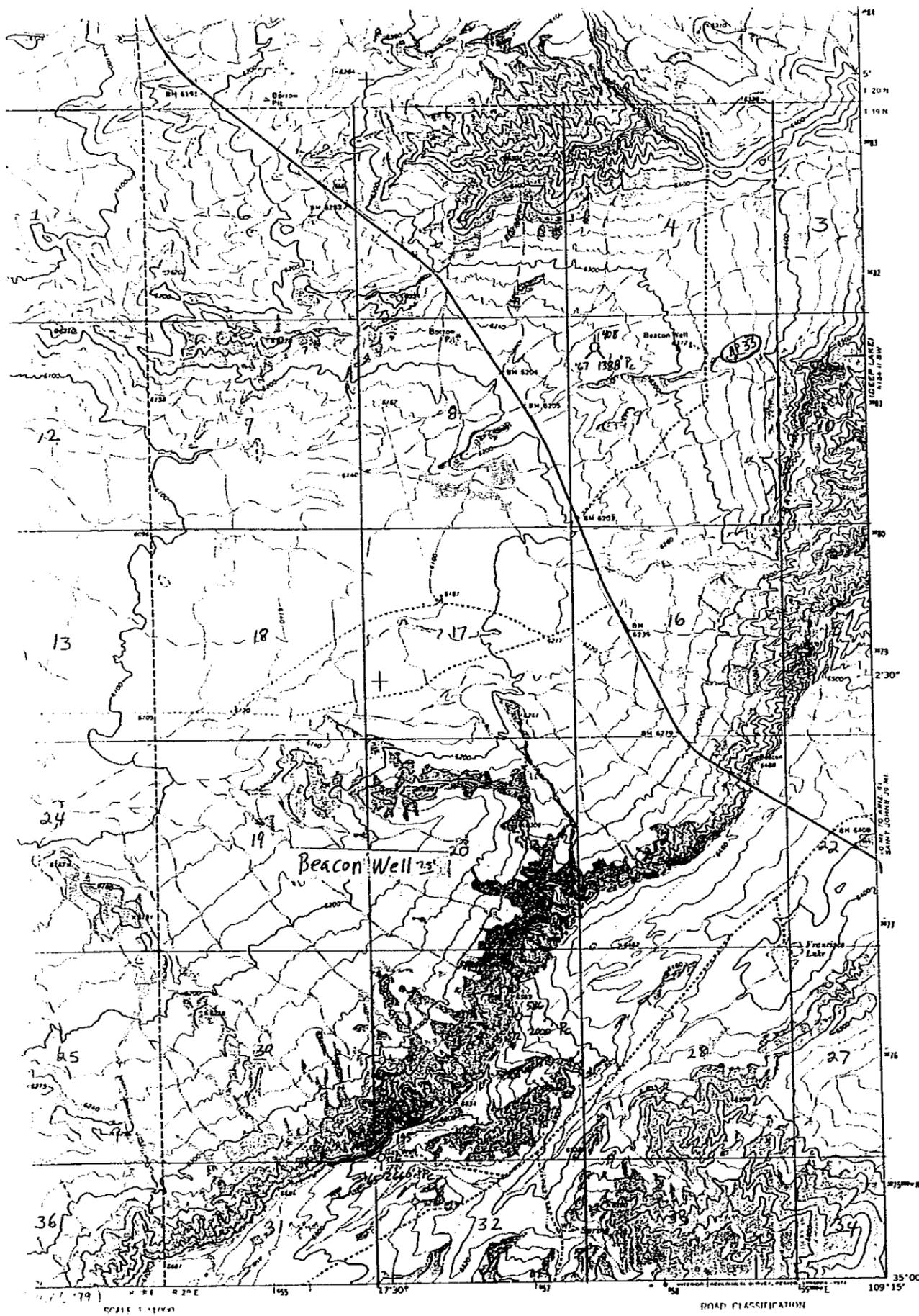
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Drill or Re-enter
File Two Copies

Form No. 3



(Complete Reverse Side)

02-001-20032





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-McGee #6 Santa Fe (strat test)
(WELL NAME)

located 560' FNL and 660' FWL (NW/4NW/4)

Section 49 Township 19N Range 29E, Apache County, Arizona.

The all 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 5th day of May, 19 67.

OIL AND GAS CONSERVATION COMMISSION

By John Bonmaster
EXECUTIVE SECRETARY

PRIOR TO BEING ALLOWED TO PRODUCE THIS WELL
YOU MUST BE IN FULL COMPLIANCE WITH RULE
105, SECTION 4110.03 (SPACING), WITH RESPECT
TO THE PRODUCT TO BE PRODUCED.

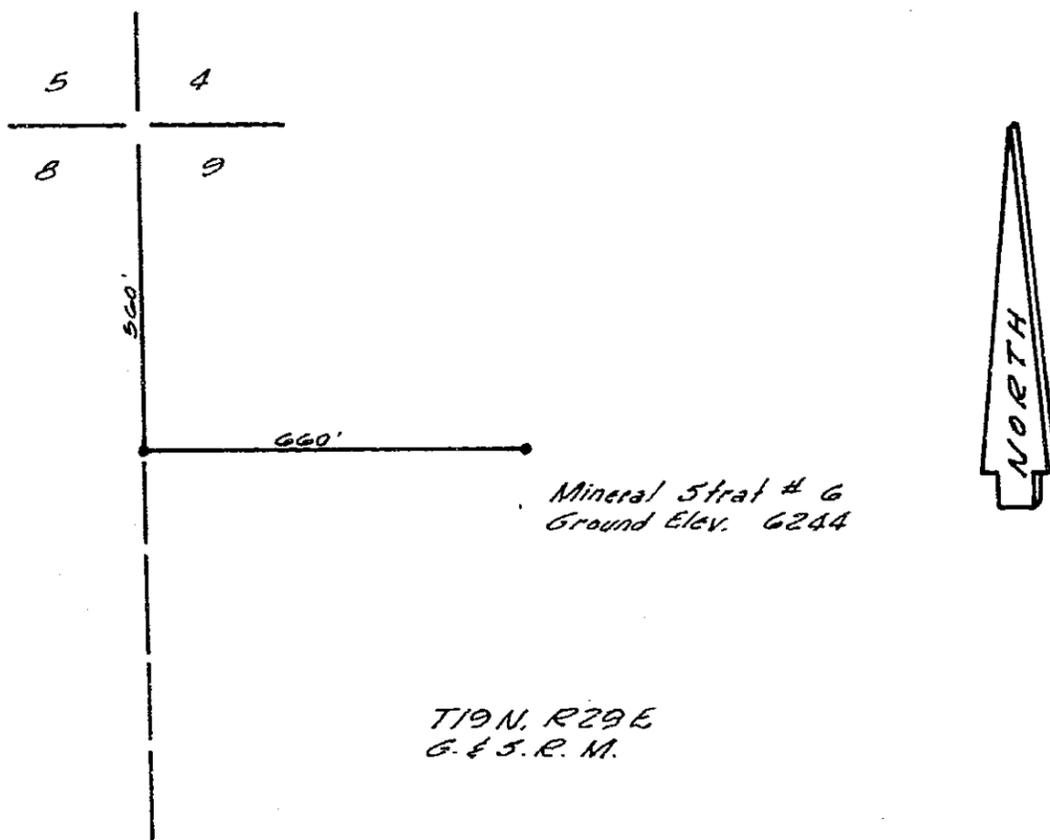
PERMIT **Nº 408**

RECEIPT NO. **9500**

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

MINERAL STRAT No. 6
 PREPARED FOR HERR MCGEE CORP.
 SEC. 9, T19N, R29E, G. & S. R. M.
 STATE OF ARIZONA



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

GALLUP NEW MEXICO

Scale 1" = 300'
 Date 5-4-1967

Drawing
 No. Q51W-34

Operator KERR MC GEE ~~OIL~~ ^{Corporation} ~~INDUSTRIES INC~~
 Bond Company Insurance Co. of N. America Amount 25,000
 Bond No. M 41 95 25 (KN528) 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	
<u>91</u>	405	
<u>349</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



KERR-MCGEE

KERR-MCGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

July 11, 1967

Mr. John Bannister
Arizona Oil & Gas Commission
1624 West Adams
Phoenix, Arizona 85007

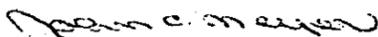
Dear Sir:

RE: Kerr-McGee #1 Santa Fe strat test, Permit 402
Kerr-McGee #2 Santa Fe strat test, Permit 403
Kerr-McGee #3 Santa Fe strat test, Permit 404
Kerr-McGee #4 Santa Fe strat test, Permit 406
Kerr-McGee #5 Santa Fe strat test, Permit 407
Kerr-McGee #6 Santa Fe strat test, Permit 408
Kerr-McGee #10 Santa Fe strat test, Permit 405
Kerr-McGee #11 Santa Fe strat test, Permit 413
Kerr-McGee #12 Santa Fe strat test, Permit 414

We are returning the Plugging Record and Application to Plug forms on the above wells. We are also submitting for filing the Well Completion form for each well. We request the information to be kept confidential if there is a provision in your Rules and Regulations for so doing.

Electrical logs on wells where we were able to run them will be filed within 90 days from completion. It is requested that these logs be kept confidential for the six months period following completion.

Respectfully,


John C. Meyer

JCM/mk
Enclosures



CONFIDENTIAL

Reference to:

IMMEDIATE REPLY PLEASE NOTE ENCLOSURES

REPLY NO LATER THAN _____

TO

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

J. G. Martinez & Associates
ENGINEERS - SURVEYORS

P. O. BOX 178
509 W. AZTEC AVE
GALLUP, NEW MEXICO
TELEPHONE 863-4042

SUBJECT Plat of survey on Mineral
Strat No. 5, 6, & 7 for Kerr McGee Corp.

MESSAGE

DATE
5/4/67

As requested by Mr. John Myer, we are forwarding herewith two prints of the subject plats to accompany Kerr McGee Corp. application for permit to drill mineral strat tests.

cc: Mr. John Myer
Richard Otto

SENT BY

J. G. Martinez

REPLY

DATE

ANSWERED BY

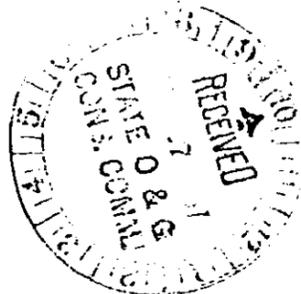
Form #PK-1 © Business Envelope Mfg. Inc.
Pearl River, New York • Melrose Park, Ill.



KERR-McGEE

ALUMINUM BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

April 26, 1967



Mr. John Bannister, Executive Secretary
Arizona Oil and Gas Conservation Commission
1624 Adams St.
Room 202
Phoenix, Arizona 85007

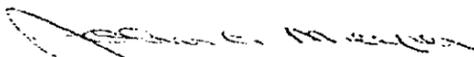
Dear Mr. Bannister:

Enclosed are Applications for Permit to Drill for Kerr-McGee Mineral Strat Tests #4 through #9. On April 24 we mailed Applications for Permit to Drill on Strat Tests #1, 2, 3 and 10. Attached to each enclosed Application is a check in the amount of \$25.

On each Application enclosed, as well as those already in your hands, is the well location given in footage from section lines. I find after talking to our Surveyor, Mr. J. G. Martinez, that in some cases he will be unable to stake the location to conform exactly with the footage on our Application. This change would be due to the desired location falling in a stock tank, feeding area or some other cultural obstacle. The footage that appears on the plats which Mr. Martinez will forward directly to you will be the location where we propose our Strat Test. If you would be kind enough to make any adjustments on our application form from the plats you will receive from Mr. Martinez, we would be greatly indebted.

The staking of the locations is progressing much slower than I had anticipated. I hope, however, that Mr. Martinez will be able to send to you plats for the four Applications now in your office within a very few days. After I think that they have arrived, I will contact you to determine whether permission to proceed with the program has been approved.

Very truly yours,
KERR-McGEE CORPORATION


John C. Meyer

JCM/mk
Enclosures: 6 Applications
6 Checks for \$25 each

408