

CONFIDENTIAL  
Release Date 11-9-67

P-W

Kerr-McGee #1 Santa Fe  
SNNW 14-19N-27E Apache County 402

sl

COUNTY Apache AREA 7 mi SW Navajo LEASE NO. Santa FE Fee

WELL NAME Kerr-McGee #1 Santa Fe

LOCATION SW NW SEC 14 TWP 19N RANGE 27E FOOTAGE 1650' FNL 330' FWL

ELEV 6049.2 GR 6052 KB SPUD DATE 5-5-67 STATUS 5-9-67 TOTAL DEPTH 1417'  
COMP. DATE

CONTRACTOR Kerr-McGee

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY	<u>x</u>
<u>None</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>	STRAT TEST
Chinel	130'			
Porosity	450-1320			
Coconino	1386'			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG <u>XXXXXXXX</u>
<u>IE, Borehole Compensated</u>			SAMPLE DESCRP. _____
<u>Sonic</u>			SAMPLE NO. _____
			CORE ANALYSIS _____
			DSTs _____

REMARKS _____	APP. TO PLUG <u>x</u>
_____	PLUGGING REP. <u>x</u>
_____	COMP. REPORT <u>x</u>

WATER WELL ACCEPTED BY \_\_\_\_\_

BOND CO. Firemen's Insurance Co. BOND NO. 188 98 10-528  
 DATE \_\_\_\_\_ ORGANIZATION REPORT 7-14-60  
 BOND AMT. \$ 25,000 CANCELLED \_\_\_\_\_  
 FILING RECEIPT 9494 LOC. PLAT x WELL BOOK x PLAT BOOK x  
 API NO. 02-001-20026 DATE ISSUED 5-1-67 DEDICATION All

PERMIT NUMBER 402 **CONFIDENTIAL**  
 (over) Release Date 11-9-67

## 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 **1** Field & Reservoir **Wildcat**

Location **1650' FNL & 330' FWL** County **Apache**

Sec. TWP-Range or Block & Survey **Section 14-19N-27E**

Date spudded **5-5-67** Date total depth reached **5-9-67** Date completed, ready to produce \_\_\_\_\_ Elevation (DF, RKB, RT or Gr.) **6052** feet Elevation of casing hd. flange \_\_\_\_\_ feet

Total depth **1417** 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) **0-1417** 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 - Sonic** 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
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'd rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio

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

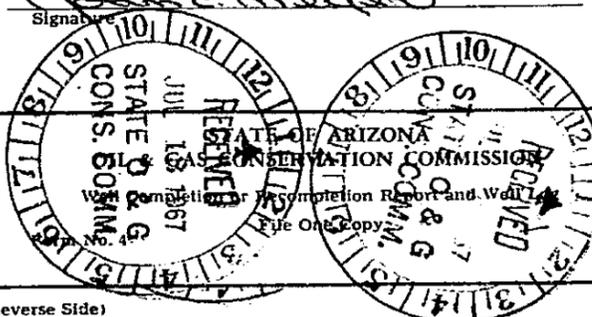
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Geologist of the Kerr-McGee Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are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

Date 7-10-67

Signature \_\_\_\_\_

CONFIDENTIAL

Permit No. 402



**DETAIL OF FORMATIONS PENETRATED**

Formation	Top	Bottom	Description*
Dune	0	130	Sd
Chinle	130		Sd & sh
Porosity	450	475	Sd
Porosity	1300	1320	Sd
Coconino	1386		Sd

*14067*

\* 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.



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. 1  
SURVEY 19N - 27E SECTION 14 COUNTY Apache  
LOCATION 1650' FNL, 330' FWL

TYPE OF WELL Strat test TOTAL DEPTH 1417  
(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 None

2. FULL DETAILS OF PROPOSED PLAN OF WORK Plugs 0-15, 425-490, 630-682,  
684-736, 1160-1262, 1270-1330, 1376-1417

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 5-9-67

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

CORRESPONDENCE SHOULD BE SENT TO John C. Meyer  
Name Geologist

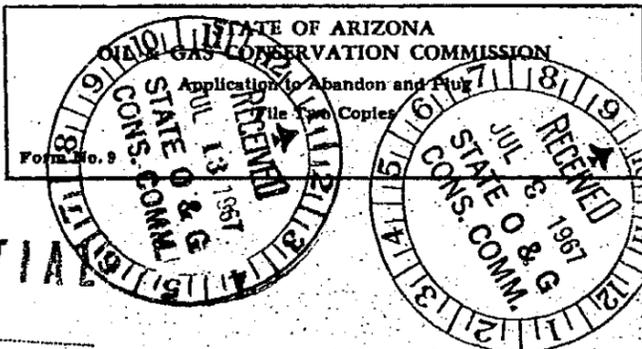
Title 710 Kerr-McGee Bldg., Okla. City, Okla.

Address June 28, 1967

Date

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

Permit No. 402



CONFIDENTIAL

Release Date

WELL SITE CHECK

By JMS  
Date 5-16-67

Contractor Company Rig Person(s) Contacted John Meyer

Spud Date \_\_\_\_\_  
Type Rig Failing 1500' Rotary  Cable Tool \_\_\_\_\_ Present Operations \_\_\_\_\_

Samples No samples taken

Pipe \_\_\_\_\_ Drilling with Air Mud

Water Zones \_\_\_\_\_ Size Hole 4 3/4

Lost Circ. Zones \_\_\_\_\_ Size Drill Pipe \_\_\_\_\_

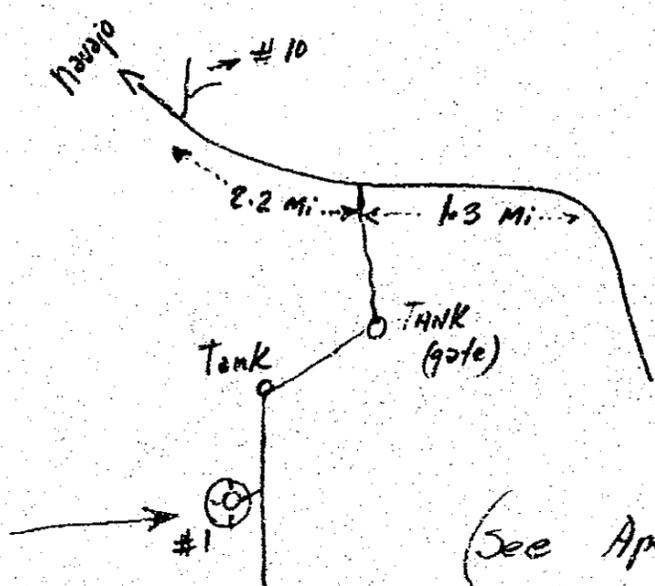
Formation Tops \_\_\_\_\_ Type Bit \_\_\_\_\_

Cores, Logs, DST \_\_\_\_\_ No. Bit \_\_\_\_\_ Drilling \_\_\_\_\_ Core \_\_\_\_\_

Formation \_\_\_\_\_

Crews \_\_\_\_\_ Lithology \_\_\_\_\_

REMARKS, PHOTO, MAP



(See Apache Co. Highway map)

WELL NAME Kerr Mc Gee #1 Santa Fe  
#1 (Stat Dept)

Permit No. 402  
Confidential: yes  No

*From the Desk of*

**JOHN BANNISTER**

5-9-67

Phone from John Myer

#1 (402)

Spud 5-5-67 P4A 5-9-67

Water zones	435'	to	480
	640	"	672
	694	"	726
	1170	"	1252
	1280	"	1320
Top →	1386	"	1417 (Colonino)

Plug 10' above to 10' below eu zone  
heavy mud between

Rig will move to No 3 (40A)  
4 Spud 5-9-67

5-3-67

Telcon - John Meyer

Will spud Kerr-McGee #1 Santa Fe today, 5-3-67

**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 <b>Santa Fe</b>	Well number <b>Strat Test #1</b>	Elevation (ground) <b>6000 est.</b>
Nearest distance from proposed location to property or lease line: <b>660</b> feet	Distance from proposed location to nearest drilling completed or applied—for well on the same lease: feet	
Number of acres in lease: <b>640</b>	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) <b>660 PNL, 660 FWL. See plat</b>	Section—township—range or block and survey <b>14 19N 27E</b>	Dedication (Comply with Rule 105) <b>640</b>
Field and reservoir (if wildcat, so state) <b>Mineral Strat Test</b>	County <b>Apache</b>	
Distance, in miles, and direction from nearest town or post office <b>7 mi. SW Navajo (on Hwy. 66) Arizona</b>		
Proposed depth: <b>1500</b>	Rotary or cable tools <b>Rotary</b>	Approx. date work will start <b>April 27, 1967</b>
Bond Status <b>on file</b> 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 *J. C. Meyer*

Date **April 24, 1967**

Permit Number: **402**  
Approval Date: **5-1-67**  
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

API-02-001-20026

(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												
<table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; text-align: center; vertical-align: middle;">D</td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> <tr> <td style="height: 100px;"></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center; vertical-align: middle;">Surveyor's Plat to be sent separately.</td> <td></td> <td></td> <td></td> </tr> </table>	D								Surveyor's Plat to be sent separately.				<p style="text-align: center;"><b>CERTIFICATION</b></p> <p>I hereby certify that the information above is true and complete to the best of my knowledge and belief.</p> <p style="text-align: right;"><i>John C. Meyer</i> John C. Meyer</p> <p>Name Geologist</p> <p>Position Kerr-McGee Corporation</p> <p>Company</p> <p>Date April 24, 1967</p> <p>Date</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</p> <p>Registered Professional Engineer and/or Land Surveyor</p> <p>Certificate No.</p>
D													
Surveyor's Plat to be sent separately.													
													

**PROPOSED CASING PROGRAM**

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
No surface casing proposed						



# PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION,  
STATE OF ARIZONA,

**KERR-MC GEE CORPORATION**

To: \_\_\_\_\_  
(OPERATOR)

to drill a well to be known as

**KERR-MC GEE #1 SANTA FE (Strat test)**  
(WELL NAME)

located 1650' FNL and 330' FWL

Section 14 Township 19N Range 27E 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 1st day of May, 19 67

OIL AND GAS CONSERVATION COMMISSION

By John Bannister  
EXECUTIVE SECRETARY

PRIOR TO BEING ALLOWED TO PRODUCE THIS WELL  
YOU MUST BE IN FULL COMPLIANCE WITH RULE  
105, SECTION A THRU G (8-1-66), WITH RESPECT  
TO THE PRODUCT TO BE PRODUCED.

PERMIT **Nº 402**

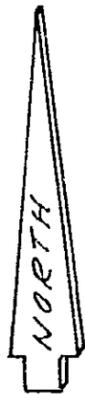
RECEIPT NO. **9494**

State of Arizona  
Oil & Gas Conservation Commission  
Permit to Drill

FORM NO. 27

MINERAL STRAT No. 1  
 PREPARED FOR HERR MCGEE CORP.  
 SEC. 14, T19N, R27E, G. & S.R.M.  
 STATE OF ARIZONA

4 3  
 9 10



T19N. R27E  
 G & S R M

9 10  
 16 15

10 11  
 15 14

1650'

330'

Mineral Strat # 1 Location  
 Ground Elev. 6000.2



PREPARED BY:

J. G. MARTINEZ & ASSOC.  
 ENGINEERS—SURVEYORS

N. M. P. E. & L. S. LIC. NO. 1765

GALLUP NEW MEXICO

Scale 1" = 1000'

Drawing

No. Q5W-29

Date 4-26-1967

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

SEE this file

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

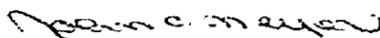
Dear Sir:

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

RECEIVED

IMMEDIATE REPLY PLEASE  NOTE ENCLOSURES

REPLY NO LATER THAN \_\_\_\_\_

*J. G. Martinez & Associates*  
ENGINEERS - SURVEYORS

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

TO

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

SUBJECT Plat of survey on Mineral  
Strat No. 1 for Kerr McGee Corporation

**MESSAGE**

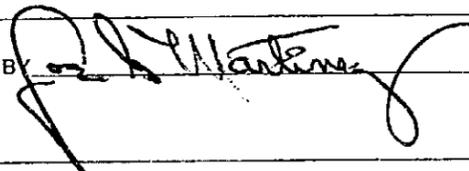
DATE  
4-27-67

fold

As requested by Mr. John Myers, we are forwarding herewith two prints of the  
subject plat to accompany Kerr McGee Corporation application for permit to drill  
mineral strat test No. 1.

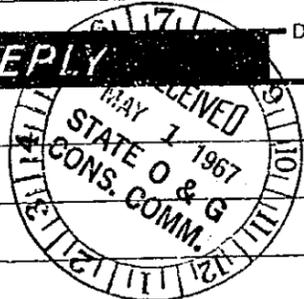
cc: Mr. John Myers

SENT BY



**REPLY**

DATE



ANSWERED BY \_\_\_\_\_



April 24, 1967

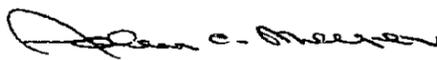
Mr. John Bannister, Executive Secretary  
Arizona Oil and Gas Conservation Commission  
1624 Adams St.  
Room 202  
Phoenix, Arizona 85007

Dear Mr. Bannister:

Enclosed are four Applications for Permit to Drill. These are to be Mineral Strat tests. At the moment we have J. G. Martinez, Registered Land Surveyor, staking the locations. He will mail directly to you the plats which we realize you must have before we can get approval to drill. Hopefully he will get them to you in the next day or so.

Thank you and Mrs. Rushton for your help in this program.

Very truly yours,  
KERR-McGEE CORPORATION

  
John C. Meyer

JCM/mk  
Enclosures: 4 Applications  
4 Checks for \$25 each



402