

CONFIDENTIAL

Issue Date

11-12-67

P-W

Kerr-McGee #2 Santa Fe  
NW SE 19-19N-28E Apache County 403

s1

COUNTY Apache AREA 10 mi SW Navajo LEASE NO. Santa Fe Fee

WELL NAME Kerr-McGee #2 Santa Fe

LOCATION NW Se SEC 19 TWP 19N RANGE 28E FOOTAGE 2510 FSL & 1830 FEL

ELEV 6121 GR KB SPUD DATE 5-8-67 STATUS PSA TOTAL DEPTH 1518'  
COMP. DATE 5-12-67

CONTRACTOR Kerr-McGee Corp.

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
None			NA	<input checked="" type="checkbox"/>
				DRILLED BY CABLE TOOL
				<input type="checkbox"/>
				PRODUCTIVE RESERVOIR
				<input type="checkbox"/>
				INITIAL PRODUCTION
				<u>Dry</u>

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Dune	0'			
Chinle	140'		x	
Porosity	1290'			
Coconino	1481'			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
IE; Borehole Comp.			SAMPLE DESCRP.
Sonic			SAMPLE NO.
			CORE ANALYSIS
			DSTs

REMARKS	APP. TO PLUG <input checked="" type="checkbox"/>
	PLUGGING REP. <input checked="" type="checkbox"/>
	COMP. REPORT <input checked="" type="checkbox"/>

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

BOND CO. Firemen's Insurance Co. BOND NO. 188 98 10-528  
 BOND AMT. \$ 25,000 CANCELLED \_\_\_\_\_ DATE \_\_\_\_\_  
 FILING RECEIPT 9495 LOC. PLAT  WELL BOOK  PLAT BOOK   
 API NO. 02-001-20027 DATE ISSUED 5-3-67 ORGANIZATION REPORT 7-14-60  
 DEDICATION ALL

PERMIT NUMBER 403 **CONFIDENTIAL**  
 (over) Release Date 11-12-67

## 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 **2** Field & Reservoir **Wildcat**

Location **2510' FSL & 1830' FEL** County **Apache**

Sec. TWP-Range or Block & Survey **Sec. 19-19N-28E**

Date spudded **5-8-67** Date total depth reached **5-8-67** Date completed, ready to produce \_\_\_\_\_ Elevation (DF, RKB, RT or Gr.) **6121** Elevation of casing hd. flange \_\_\_\_\_ feet

Total depth **1518** 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) **0-1518** 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'ed 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.

7-10-67  
Date

*John C. ...*  
Signature

CONFIDENTIAL

Release Date \_\_\_\_\_

Permit No. **403**

Form No. 4

File One Copy

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Well Completion or Recompletion Report and Well Log



**DETAIL OF FORMATIONS PENETRATED**

Formation	Top	Bottom	Description*
Dune	0	140	Sd
Chinle	140		Sd & sh
Porosity	1290	1345	Sd
Cocorino	1481		Sd

1481

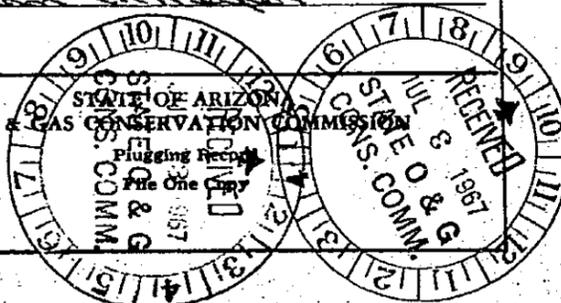
\* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

**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. 2	Field & Reservoir Wildcat		
Location of Well 2510' FSL & 1830' FEL		Sec-Twp-Rge or Block & Survey Sec. 19-19N-28E		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: 5-12-67		Total depth 1518	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
					510-600 w/12 sks
					1280-1405 w/16 sks
				1480-1514 w/ 6 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
None					
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 <u>Geologist</u> of the <u>Kerr-McGee Corporation</u> (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 6-14-67		Signature <i>[Signature]</i>			
Permit No. 403			Form No. 10		

**CONFIDENTIAL**



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. 2
SURVEY 19N-28E SECTION 19 COUNTY Apache
LOCATION 2510' FSL, 1830' FEL

TYPE OF WELL Strat test TOTAL DEPTH 1518
(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 Plug 0-15, 510-600, 1280-1405, 1480-1514

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 5-12-67

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:

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Abandon and Plug
Form No. 1
RECEIVED
JUL 8 1967
STATE O & G
CONS. COMM.

Permit No. 403

CONFIDENTIAL

Release Date

WELL SITE CHECK

By JMS  
Date 5-16-67

Contractor Kern McGee Person(s) Contacted John Meyer

Spud Date \_\_\_\_\_  
Type Rig Triling 1500 Rotary Cable Tool Present Operations plugged &

Samples None taken TD 1518' (Plg) abandoned

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

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

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

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

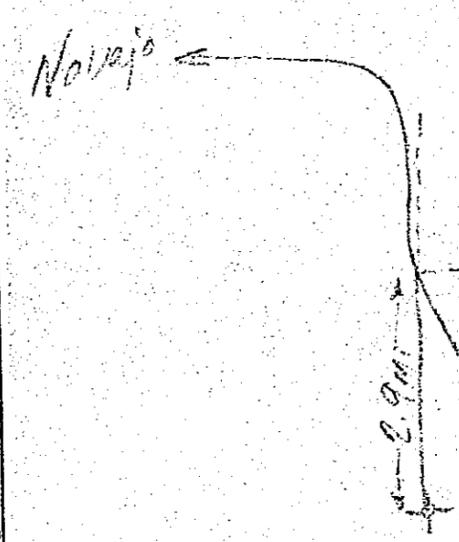
Cores, Logs, DST \_\_\_\_\_ No. Bit \_\_\_\_\_ Date \_\_\_\_\_

Formation \_\_\_\_\_

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

REMARKS, PHOTO, MAP

*pits drying - need filling  
Marker needs welded data*



*See Apache Co. Map*

WELL NAME Kern McGee  
Santa Fe #2

Permit No. 403  
Confidential: yes (No)

From the Desk of

**JOHN BANNISTER**

5-17-67

John Myer - via phone  
Strat # 2

TD 1518 (Dr.) 1512-Log

Water Sand 520'-590'

Shen. 1290-1395

Coed. 1480'-1514'

Cement in bottom

" 10' above thru & below  
Sands

Mud between plugs

15' surface plug

OK given 5-17-67 JB

**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

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 #2</b>	Elevation (ground) <b>6000 est.</b>
Nearest distance from proposed location to property or lease line: <b>1980</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) <del>1980 PNL, 1980 PNL</del> <i>See plat</i>	Section—township—range or block and survey <b>19 19N 28E</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>10 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>	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 *John Pannister*

Date **April 24, 1967**

Permit Number: **403**

Approval Date: **4-3-67**

Approved By: *John Pannister*

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

Form No. 3

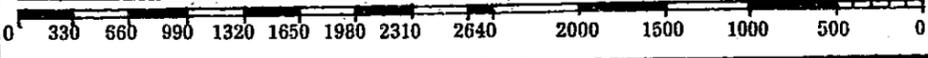


41-02-001-20027

(Complete Reverse Side)

1. Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
2. 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.
3. All distances shown on the plat must be from the outer boundaries of the Section.
4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES  NO
5. 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 \_\_\_\_\_
6. 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%;"></td> <td style="width: 25%;"></td> <td style="width: 25%; text-align: center;">0</td> <td style="width: 25%;"></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="4" style="text-align: center;">Surveyor's Plat to be sent separately.</td> </tr> </table>			0										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: center;"><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>
		0															
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,

To: KERR-MC GEE CORPORATION  
(OPERATOR)

to drill a well to be known as

Kerr-McGee #2 Santa Fe (Strat Test)

(WELL NAME)

located 2510' FSL and 1830' FEL

Section 19 Township 19N Range 28E, 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 3rd day of May, 19 67.

OIL AND GAS CONSERVATION COMMISSION

By John W. Bannister  
EXECUTIVE SECRETARY

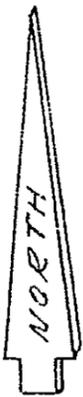
PERMIT <sup>46</sup> No. 403

RECEIPT NO. 9495

State of Arizona  
Oil & Gas Conservation Commission  
Permit to Drill

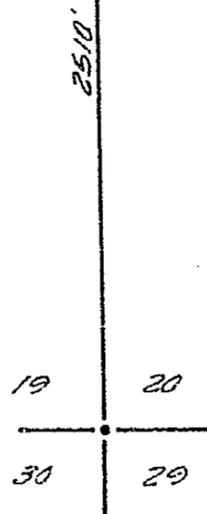
FORM NO. 27

MINERAL STRAT No. 2  
PREPARED FOR KERR MCGEE CORP.  
SEC. 19, T19N, R28E, G. & S. R.M.  
STATE OF ARIZONA

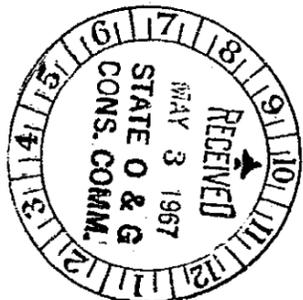


1830'  
Mineral Strat # 2  
Ground Elev. 6121

T19N, R28E  
G. & S. R.M.



*Joseph G. Martinez*  
4-24-67



PREPARED BY:

J. G. MARTINEZ & ASSOC.  
ENGINEERS—SURVEYORS

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

GALLUP NEW MEXICO

Scale 1" = 620'

Drawing

No. Q5W-31

Date 4-20-1967

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

**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*  
John C. Meyer

JCM/mk  
Enclosures



CONFIDENTIAL

403

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

SUBJECT Plat of survey on Mineral  
Strat No. 2 & 3 for Kerr McGee Corporation

**MESSAGE**

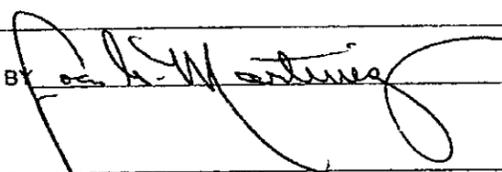
DATE  
4-29-67

fold

As requested by 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. 2 & 3.

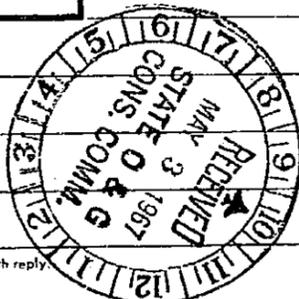
cc: Mr. John Myers

SENT BY



**REPLY**

DATE



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



April 24, 1967

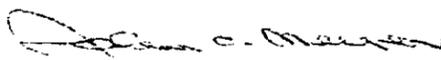
Mr. John Bannister, Executive Secretary  
Arizona Oil and Gas Conservation Commission  
1624 Adams St.  
Room 202  
Phoenix, Arizona 85007

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



403