

CONFIDENTIAL  
Release Date 12-6-67

P-W

Kerr-McGee #11 Santa Fe  
NE NE 24-19N-27E Apache County 18



## 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 **11** Field & Reservoir **Wildcat**

Location **800' FNL, 800' FEL** County **Apache**

Sec. TWP-Range or Block & Survey **Sec. 24-19N-27E**

Date spudded **6-2-67** Date total depth reached **6-6-67** Date completed, ready to produce \_\_\_\_\_ Elevation (DF, RKB, RT or Gr.) **6111** Elevation of casing hd. flange \_\_\_\_\_ feet

Total depth **1455** 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) **0-1455** 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'ted 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 July 10, 1967

Signature [Signature]

CONFIDENTIAL

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

Permit No. 413

Form No. 4



**DETAIL OF FORMATIONS PENETRATED**

Formation	Top	Bottom	Description*
Dune	0	55	Sd
Chinle	55		Sd
Porosity	1240	1290	Sd
Coconino	1422		Sd

*61/11  
12/2*

\* 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 <b>Kerr-McGee Corporation</b>		Address <b>Kerr-McGee Building, Oklahoma City, Okla</b>	
Federal, State, or Indian Lease Number, or lessor's name if fee lease. <b>Santa Fe</b>		Well No. <b>11</b>	Field & Reservoir <b>Wildcat</b>
Location of Well <b>800' FNL, 800' FEL</b>		Sec-Twp-Rnge or Block & Survey <b>Sec. 24-19N-27E</b>	County <b>Apache</b>
Application to drill this well was filed in name of <b>Kerr-McGee Corporation</b>	Has this well ever produced oil or gas <b>No</b>	Character of well at completion (initial production): Oil (bbbls/day)      Gas (MCF/day)      Dry? <b>X</b>	
Date plugged: <b>6-6-67</b>	Total depth <b>1455</b>	Amount well producing when plugged: Oil (bbbls/day)      Gas (MCF/day)      Water (bbbls/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
			<b>0-15 w/2 sks</b>
			<b>310-390 w/10 sks</b>
			<b>465-540 w/9 sks</b>
			<b>1225-1335 w/14 sks</b>
			<b>1355-1455 w/12 sks</b>

**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:
<b>Kerr-McGee Corporation</b>	<b>Oklahoma City, Oklahoma</b>	

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.

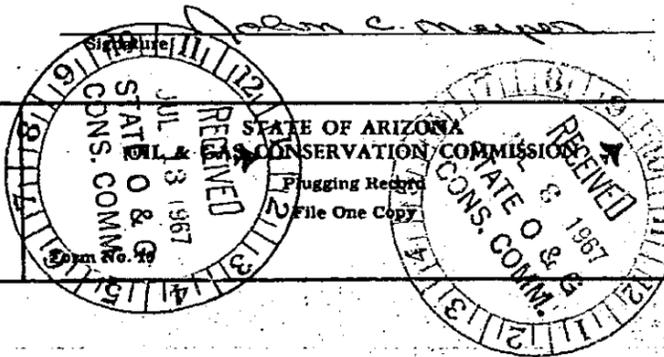
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Geologist of the Kerr-McGee Corporation (company) and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are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

Date 6-28-67

**CONFIDENTIAL**

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

Permit No. 413



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. 11  
SURVEY 19N-27E SECTION 24 COUNTY Apache  
LOCATION 800' FN & EL

TYPE OF WELL Strat test TOTAL DEPTH 1455  
(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, 310-390, 465-540,  
1225-1335, 1335-1455

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 6-6-67

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

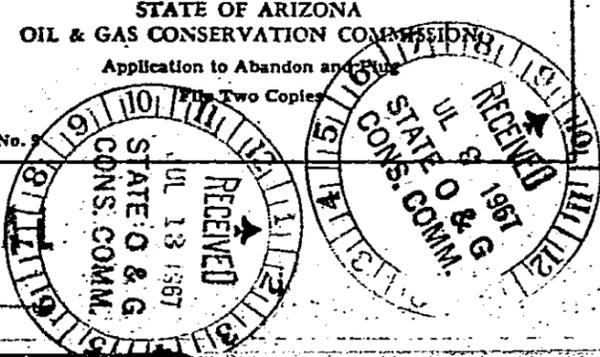
Date Approved \_\_\_\_\_  
STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
By: \_\_\_\_\_

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

Permit No. 413

CONFIDENTIAL

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



June 6, 1967

Telephone: Norval Schoenhals

#11 Strat test

Proposed plugs:

TD 1455

Sup Cocorino 1422

0 - 15

Sands 322 - 372

310 - 390

Sand 478 - 528

465 - 540

" 1236 - 1295

1225 - 1305

" 1317 - 25

1305 - 1335

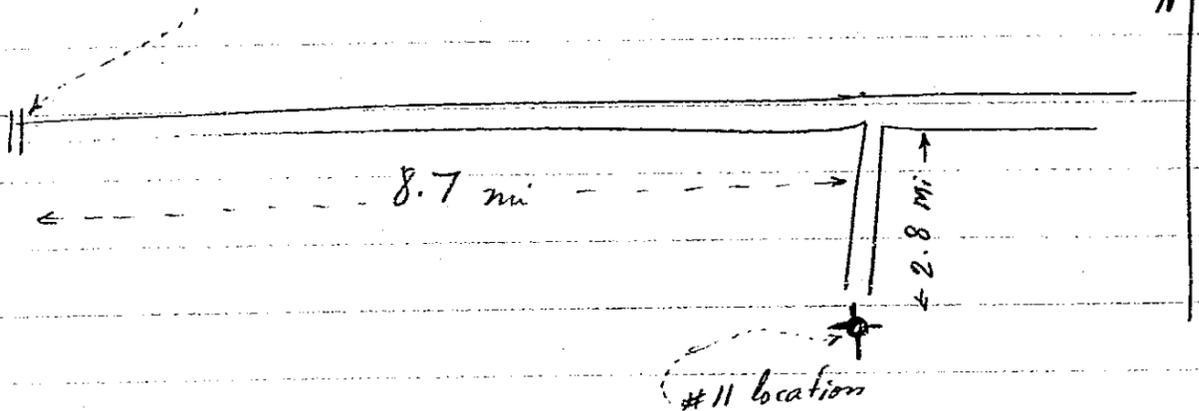
" 1370 - 93

1355 - 1455

Waiting on order. May release rig.

Have verbal permission to plug. JST

Spudlock bridge



4B

**APPLICATION FOR PERMIT TO DRILL OR RE-ENTER**

APPLICATION TO DRILL

RE-ENTER OLD WELL

NAME OF COMPANY OR OPERATOR **KERR-Mc GEE CORP**

Address **710 KERR-Mc GEE BLDG, OKLA CITY, OKLA**

Drilling Contractor **KERR - Mc GEE**

Address **KERR - Mc GEE BLDG., OKLA CITY, OKLA**

**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 # 11</b>	Elevation (ground) <b>6130 EST</b>
Nearest distance from proposed location to property or lease line: <b>800</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) Section—township—range or block and survey Dedication (Comply with Rule 105)  
**800 FNL, 800 FEL 24-19N-27E 640**

Field and reservoir (if wildcat, so state) County  
**MINERAL STRAT TEST ADAPACHE**

Distance, in miles, and direction from nearest town or post office  
**10 MI SW NAVAJO, ARIZ**

Proposed depth: <b>1525</b>	Rotary or cable tools <b>ROTARY</b>	Approx. date work will start <b>6-1-67</b>
Bond Status <b>ON FILE</b>	Organization Report On file <input checked="" type="checkbox"/> Or attached	Filing Fee of \$25.00 Attached <b>TO BE MAILED</b>

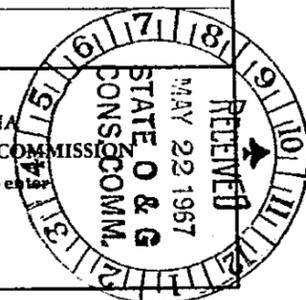
Remarks:  
**MINERAL STRAT TEST TO DRILL 5 7/8" HOLE FROM SURFACE CASING TO T.D.**

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

Signature *John E. Bannister*  
Date **5-19-67**

Permit Number: **413**  
Approval Date: **5-29-67**  
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



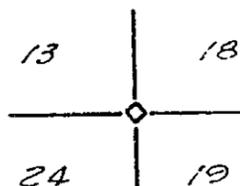
- Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
- A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
- 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%; border-collapse: collapse;"> <tr> <td style="width: 25%; height: 40px;"> </td> </tr> <tr> <td style="height: 40px;"> </td> <td style="height: 40px;"> </td> <td style="height: 40px;"> </td> <td style="height: 40px;"> </td> </tr> <tr> <td style="height: 40px;"> </td> <td style="height: 40px;"> </td> <td style="height: 40px;"> </td> <td style="height: 40px;"> </td> </tr> <tr> <td style="height: 40px;"> </td> <td style="height: 40px;"> </td> <td style="height: 40px;"> </td> <td style="height: 40px;"> </td> </tr> </table>																	<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;">_____ Name</p> <p style="text-align: right;">_____ Position</p> <p style="text-align: right;">_____ Company</p> <p style="text-align: right;">_____ Date</p> <p style="text-align: right;">5-18-67</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 style="text-align: right;">_____ Date Surveyed</p> <p style="text-align: right;">_____ Registered Professional Engineer and/or Land Surveyor</p> <p style="text-align: right;">_____ Certificate No.</p>

**PROPOSED CASING PROGRAM**

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
7" REG	20#	S&S X	2045	2100	NONE	

MINERAL STRAT No. 11  
 PREPARED FOR KERR MCGEE CORP.  
 SEC. 24, T19N, R27E, G. & S. R.M.  
 State of ARIZONA



Mineral Strat No. 11  
 Ground Elev. 6111

T19N, R27E  
 G. & S. R.M.

*Joseph A. Martinez*  
 REGISTERED ENGINEER  
 5-23-67

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



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

Scale 1" = 300'  
 Drawing No. 0511-39  
 Date 5-23, 1967

413



# 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 #11 Santa Fe (strat test)  
(WELL NAME)

located 800' FNL and FEL (NE/4NE/4)

Section 24 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 29th day of May, 19 67.

OIL AND GAS CONSERVATION COMMISSION

By John K. Lanister  
EXECUTIVE SECRETARY

PRIOR TO BEING ALLOWED TO PRODUCE THIS WELL  
YOU MUST BE IN FULL COMPLIANCE WITH RULE  
109, SECTION A PART 3 (SPACING), WITH RESPECT  
TO THE PRODUCT TO BE PRODUCED.

PERMIT No 413

RECEIPT NO. 9505

State of Arizona  
Oil & Gas Conservation Commission  
Permit to Drill

FORM NO. 27



OFFICE OF  
**Oil and Gas Conservation Commission**  
STATE OF ARIZONA  
4515 NORTH 7TH AVE.  
PHOENIX, ARIZONA 85013  
PHONE: (602) 271-5161

October 29, 1973

Mr. Ted Strickland  
Rocky Mountain Well Log Service Co.  
1753 Champa Street  
Denver, Colorado 80202

Dear Mr. Strickland:

As per your request of October 25, 1973, we are sending you the following logs that you have requested with two exceptions: The Geothermal Kinetics #1 Power Ranches well is still in confidential status and we do not have logs on the Kerr-McGee Corp. #10 Santa Fe.

Kerr-McGee Corp. #5 Santa Fe, 23-20N-28E, Apache Co., Permit #407  
Sonic Log and Induction Electrical Log

Kerr-McGee Corp. #11 Santa Fe, 24-19N-27E, Apache Co., Permit #413  
Borehole Compensated Sonic Log and Induction-Electrical Log

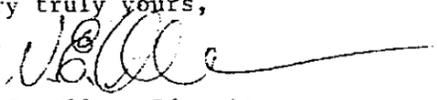
Kerr-McGee Corp. #12 Santa Fe, 22-20N-27E, Apache Co., Permit #414  
Borehole Compensated Sonic Log and Induction-Electrical Log

Brown & Thorpe #1 Bullard-Wash, 3-10N-10W, Yavapai Co., Permit #589  
Borehole Compensated Sonic Log and Induction-Electrical Log

Arkla Expl. Co., #10 N.M.A., 27-16N-23E, Navajo Co., Permit #359  
Radioactivity Log

Due to a recent ruling of the State Finance Department, it is required that this Commission charge postage on the mailing of various matter, i.e., logs, well records and so forth. The postage for mailing the above logs comes to \$.83. Please make check payable to the Oil and Gas Conservation Commission.

Very truly yours,

  
W. E. Allen, Director  
Enforcement Section

WEA/rlb

Encs.

413

# Rocky Mountain Well Log Service Co.

1753 Champa Street

DENVER, COLORADO

266-0588 Area Code 303

80202

BOB ANDREWS, Division Manager



October 25, 1973

CASPER WYOMING

BOB FITZGERALD  
PETA. BLDG. ARCADE  
PHONE 2M-4921

MIDLAND, TEXAS

DAVID CLARK  
105 WEST WALL  
PHONE 482-0551

Mr. W. E. Allen  
Oil & Gas Conservation Commission  
State of Arizona  
4515 N. 7th Ave.  
Phoenix, Arizona 85013

Dear Mr. Allen,

May we borrow from you the logs on the following  
wells:

1. Kerr-McGee Corp.	#5 Santa Fe	23-20N-28E	Apache, Wyo.
2. Kerr-McGee Corp.	#10 Santa Fe	23-20N-27E	Apache, Wyo.
3. Kerr-McGee Corp.	#11 Santa Fe	24-19N-27E	Apache, Wyo.
4. Kerr-McGee Corp.	#12 Santa Fe	22-20N-27E	Apache, Wyo.
5. Gesthermal Kinetics	#1 Power Ranches	1-2S-6E	Maricopa, Ariz.
6. Brown & Thorpe	#1 Bullard-Wash	3-10N-10W	Yavapai, Ariz.
7. Arkla Expl. Co.	#10 N.M.A.	27-16N-23E	Navajo, Ariz.

They will be returned promptly upon completion of our re-  
production process.

Thank you for your cooperation

Very truly yours,

Rocky Mountain Well Log Service Co.

*Ted Strickland*  
By: Ted Strickland

RECEIVED

413

Operator KERR MC GEE ~~OIL INDUSTRIES INC~~ Corporation  
 Bond Company Insurance Co. of N. America Amount 25,000  
 Bond No. M 41 95 25 (KH528) 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>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



KERR-MCGEE BUILDING - OKLAHOMA CITY, OKLAHOMA 73102

July 11, 1967

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

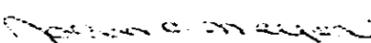
Dear Sir:

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

JGM/mk  
Enclosures

4/3

CONFIDENTIAL





May 26, 1967

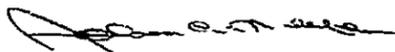
Mr. John Bannister  
Arizona Oil and Gas Conservation Commission  
1624 Adams Street  
Room 202  
Phoenix, Arizona

Dear Mr. Bannister:

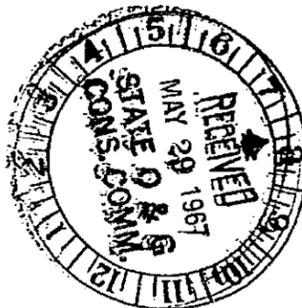
Enclosed are two checks in the amount of \$25.00 each. They are to cover the fee required for our application for permit to drill Strat Tests 11 and 12. The Application for Permit to Drill (Form No. 3) for each was sent in from Chambers, Arizona. The Surveyor's plat should be in your office by now.

We hope to move to Strat Test 11 and 12 the first of next week. We will temporarily postpone the drilling of Strat Tests #7 and #8.

Sincerely,

  
John C. Meyer

JCM/mk  
Enclosures: 2 checks for \$25.00 each



IMMEDIATE REPLY PLEASE  NOTE ENCLOSURES

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

*J. C. 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

SUBJECT Plat of survey on  
Mineral Strat No. 11 and 12

**MESSAGE**

DATE  
5/22/67

fold

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

cc: Mr. John Meyer  
Mr. Norvell Schoenals

SENT BY

*J. C. Martinez*

**REPLY**

DATE

113

ANSWERED BY



5-19-67

MR JOHN BANNERMAN  
Arizona C & G Conservation Comm.  
Phoenix, Ariz.

Dear John -

Please excuse the informality - I don't  
have much to work with in the  
Navajo-Chandlers-Indian area.

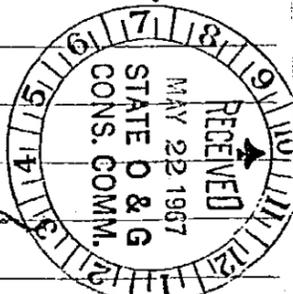
We propose drilling strat tests # 11 and  
# 12. Form 3 in duplicate is enclosed.  
The check for each well be sent from  
OKC. The surveyor will be in the  
field at once & will mail plots  
to you.

We propose casing from surface  
to base dune sand on top Chino.  
This water-free sand cased on us  
and we've lost 2 out of 5 holes.  
It's as loose as a pile of table salt  
on a table top.

We propose larger bit size (from 4 3/4 to  
5 1/2) to give us a bit more room to  
run the Schlumberger 3 5/8 rods. It's been  
too sticky and we almost lost one  
of them.

Jim Burns replaced out here - will be  
in touch with you from Okla City  
early next week.

Respectfully  
John Meyer



Will send you Form 25 from OKC charging # 7 E # 8