

Kerr-McGee ~~Co.~~ No. 20 *7/25/96*  
NW/NW Sec. 31, T36N, R30E

COUNTY Apache AREA Redrock, AZ LEASE NO. 14-20-0603-8823 Nav.

(5-14) Mtn. States Petroleum  
 WELL NAME Kerr-McGee Corporation Navajo

LOCATION NW/NW/4 SEC 31 TWP 36N RANGE 30E FOOTAGE 1240' FNL & 980' FWL  
 ELEV 8476 GR KB SPUD DATE 11-18-78 STATUS Oil TOTAL DEPTH 3980  
 COMP. DATE 12-23-78 PBT0 3939

CONTRACTOR Cactus Drilling Company

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
<u>9 5/8</u>	<u>896</u>	<u>5005K5</u>		<input checked="" type="checkbox"/>
<u>7</u>	<u>3980</u>	<u>2505155</u>		<input type="checkbox"/>

DRILLED BY CABLE TOOL   
 PRODUCTIVE RESERVOIR Intrusive  
 INITIAL PRODUCTION 5.11  
4980, 286MSE  
0 BWT

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Formation	Top	Bottom		Description*
CHINLE	SURFACE	1446		RED SHALE W/THIN STRINGERS OF SAND
COCONINO	1446	2190		MASSIVE SANDSTONE W/SHALEY STRINGERS
HERMOSA	3250	---		GRAY, DENSE LIMESTONE W/SOME GRAY, SHALE & LIMESTONE STRINGERS
BLACK SHALE	3754	3760		BLACK SHALE
INTRUSIVE	3760	3870		SEYENITE

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
<u>GR CBL, #</u> <u>CC1</u>	<u>3268-3864</u>	<u>←</u>	<u>None</u>
			SAMPLE DESCRP.
			SAMPLE NO. <u>1804</u>
			CORE ANALYSIS
			DSTs <u>None</u>

REMARKS \_\_\_\_\_ APP. TO PLUG \_\_\_\_\_  
 PLUGGING REP. \_\_\_\_\_  
 COMP. REPORT

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

BOND CO. Firemen's Insurance Company filed in P/N 723 BOND NO. 188-98-10-528  
 BOND AMT. \$ 25,000 CANCELLED 12/1/97 DATE \_\_\_\_\_ ORGANIZATION REPORT X  
 FILING RECEIPT 1211 LOC. PLAT X WELL BOOK X PLAT BOOK X  
 API NO. 02-001-20245 DATE ISSUED 10-19-78 DEDICATION NW/4 of NW/4

PERMIT NUMBER 696

### 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 <b>Kerr-McGee Corporation</b>		Address <b>Box 250; Amarillo, Texas 79189</b>	
Federal, State or Indian Lease Number or name of lessor if fee lease <b>14-20-0603-8823</b>		Well Number <b>20</b>	Field & Reservoir <b>Dineh-Bi-Keyah</b>
Location <b>1240' FNL, 980' FWL</b>		County <b>Apache</b>	
Sec. TWP-Range or Block & Survey <b>Sec 31, T 36 N, R 30 E, G &amp; SRM</b>			
Date spudded <b>11-18-78</b>	Date total depth reached <b>12-5-78</b>	Date completed, ready to produce <b>12-23-78</b>	Elevation (DF, RCB, RT or Gr.) feet <b>8476 GL</b>
Elevation of casing hd. flange <b>same</b>		feet	
Total depth <b>3980</b>	P.B.T.D. <b>3939</b>	Single, dual or triple completion? <b>Single</b>	If this is a dual or triple completion, furnish separate report for each completion.
Producing interval (s) for this completion <b>3768 - 3864 Lower Hermosa</b>		Rotary tools used (interval) <b>0-3980</b>	Cable tools used (interval) <b>----</b>
Was this well directionally drilled? <b>No</b>	Was directional survey made? <b>No</b>	Was copy of directional survey filed? <b>-----</b>	Date filed <b>-----</b>
Type of electrical or other logs run (check logs filed with the commission) <b>GR - CBL - CCL</b>			Date filed <b>w/this report</b>

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	12 1/4	9 5/8	32.3	896	500sks Class B	B
Production	8 3/4	7	20.0	3980	250sks Class B	B

TUBING RECORD

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
2 7/8 in.	3870 ft.	---	---	---	---	---	---

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval
1 per 4 ft.		3768 - 3864'	Acid: 2100gal 3%HF-7% <chem>HCL</chem> Frac: 76,700gal crude, 60,000# sand	3768 - 3864'

INITIAL PRODUCTION

Date of first production <b>12-28-78</b>		Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump): <b>Pumping - 2 1/2" x 2" x 20' RWBC Pump</b>				
Date of test <b>1-12-79</b>	Hrs. tested <b>24</b>	Choke size <b>N/A</b>	Oil prod. during test <b>48</b> bbls.	Gas prod. during test <b>28.6</b> MCF	Water prod. during test <b>-0-</b> bbls.	Oil gravity <b>* API (Corr)</b>
Tubing pressure <b>----</b>	Casing pressure <b>----</b>	Cal'ated rate of Production per 24 hrs. <b>48</b> Oil bbls.	Gas <b>28.6</b> MCF	Water <b>-0-</b> bbls.	Gas-oil ratio <b>595.8</b>	

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 an Engineering Assistant 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 January 15, 1979

Signature Larry R. Bell Larry R. Bell

**RECEIVED**

JAN 19 1979

D & G CONS. COMM.

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

Permit No. **696**

Form No. 4

File Copy **2**

**DETAIL OF FORMATIONS PENETRATED**

Formation	Top	Bottom	Description*
CHINLE	SURFACE	1446	RED SHALE W/THIN STRINGERS OF SAND
COCONINO	1446	2190	MASSIVE SANDSTONE W/SHALEY STRINGERS
HERMOSA	3250	---	GRAY, DENSE LIMESTONE W/SOME GRAY, SHALE & LIMESTONE STRINGERS
BLACK SHALE	3754	3760	BLACK SHALE
INTRUSIVE	3760	3870	SEYENITE

\* 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.

Form No. 4

**OPERATOR'S CERTIFICATE OF COMPLIANCE AND AUTHORIZATION  
TO TRANSPORT OIL OR GAS FROM LEASE**

Federal, State or Indian Lease Number, or lessor's name if fee lease <u>14-20-0603-8823</u>	Field <u>Dineh-BI-Keyah</u>	Reservoir <u>Hermosa</u>
Survey or Sec-Twp-Rge <u>Sec 29, 30, 31, 32 T-36N-R30E</u>	County <u>Apache</u>	State <u>AZ</u>
Operator <u>Mountain States Petroleum Corp.</u>		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street <u>P O Bx 1936</u>	City <u>Roswell,</u>	State <u>New Mexico 88202</u>
Above named operator authorizes (name of transporter) <u>Giant Industries</u>		
Transporter's street address <u>P O Bx 12999</u>	City <u>Scottsdale,</u>	State <u>AZ</u>
Field address <u>P O Bx 256 (Bloomfield Hwy) Farmington, N M 87499</u>		
<small>Oil, condensate, gas well gas, casinghead gas</small>		
To transport	<u>100% of the</u>	<u>oil</u> from said lease.
OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:		
Name of gatherer	% transported	Product transported
Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change.  <u>Change of Oper.</u>		

The undersigned certifies that the rules and regulations of the State of Arizona Oil & Gas Conservation Commission have been complied with in drilling and producing operations on this lease, except as noted above, and that the above transporter is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property, and that this authorization will be valid until further notice or until cancelled by the State of Arizona Oil & Gas Conservation Commission.

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Secretary of the Mountain States Petro. 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.

Date Aug. 11, 1995 Ruby Wickersham  
Signature

Date approved: AUG 16 1995

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION

By: Steven L. Rainey

Permit No. 696

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Operator's Certificate of Compliance & Authorization to  
Transport Oil or Gas from Lease  
File Two Copies  
Form No. 8

**OPERATOR'S CERTIFICATE OF COMPLIANCE AND AUTHORIZATION  
TO TRANSPORT OIL OR GAS FROM LEASE**

Federal, State or Indian Lease Number, or lessor's name if fee lease <b>14-20-0603-8823 Navajo</b>		Field <b>Dineh-Bi-Keyah</b>	Voir <b>Hermosa</b>
Survey or Sec-Twp-Rge <b>Several - T 36 N, R 30 E</b>		County <b>Apache</b>	State <b>Arizona</b>
Operator <b>Kerr-McGee Corporation</b>			
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:			
Street <b>P. O. Box 250</b>		City <b>Amarillo</b>	State <b>Texas, 79189</b>
Above named operator authorizes (name of transporter) <b>Gary-Williams Energy</b>			
Transporter's street address <b>370 17th St., Suite 5300</b>		City <b>Denver</b>	State <b>Colorado, 80202</b>
Field address <b>P. O. Box 159, Bloomfield, NM 87413</b>			
Oil, condensate, gas well gas, casinghead gas			
To transport		<b>100% of the Oil</b>	from said lease.
OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:			
Name of gatherer	% transported	Product transported	
Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change.			

The undersigned certifies that the rules and regulations of the State of Arizona Oil & Gas Conservation Commission have been complied with in drilling and producing operations on this lease, except as noted above, and that the above transporter is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property, and that this authorization will be valid until further notice or until cancelled by the State of Arizona Oil & Gas Conservation Commission.

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

8/18/92 Date H.H. Rice Signature H.H. Rice

Date approved: 8-21-92

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION

By: Steven L. Raif

Permit No. \_\_\_\_\_

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Operator's Certificate of Compliance & Authorization to  
Transport Oil or Gas from Lease  
File Two Copies  
Form No. 8

GAS-OIL RATIO TEST REPORTS

Filed under Oil-Gas Ratio Tests, Dineh-bi-Keyah Field  
in cabinet in office of Enforcement Director

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
Kerr-McGee Corporation

3. ADDRESS OF OPERATOR  
Box 250; Amarillo, Texas 79189

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1240' FNL, 980' FWL  
AT TOP PROD. INTERVAL: 1240' FNL, 980' FWL  
AT TOTAL DEPTH: 1240' FNL, 980' FWL

5. LEASE  
Navajo

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Navajo

9. WELL NO.  
20

10. FIELD OR WILDCAT NAME  
Dineh-Bi-Keyah

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec 31, T36N, R30E, G & SRM

12. COUNTY OR PARISH  
Apache

13. STATE  
Arizona

14. API NO.  
02-001 - 20245

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
8476' GL

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <input type="checkbox"/>	weekly report <input type="checkbox"/>

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. 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.)\*

Put well on pump 12-27-78  
Pumping well waiting on production to level off prior to testing  
Pumped 79 BO & 0 BW 12-29-78  
Report as of 1-3-79

RECEIVED  
JAN 8 1979  
D & G CONS. COMM.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED Harry R. Bell TITLE Engineering Asst. DATE January 4, 1979

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

696

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
**Kerr-McGee Corporation**

3. ADDRESS OF OPERATOR  
**P. O. Box 250 - Amarillo, Texas 79189**

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: **1240' FNL, 980' FWL**  
AT TOP PROD. INTERVAL: **Same**  
AT TOTAL DEPTH: **Same**

5. LEASE  
**Navajo**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
**Navajo**

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
**Navajo**

9. WELL NO.  
**20**

10. FIELD OR WILDCAT NAME  
**Dineh - Bi - Keyah**

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
**Sec 31 T36N, R30E G65W**

12. COUNTY OR PARISH  
**Apache**

13. STATE  
**Arizona**

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
**3476' GL**

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other) <b>Weekly</b>			

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. 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.)\*

Ran GR - CBL - CCL logs  
Perf 1 hole/ft 3768' - 3864' (25 holes)  
Acidized w/2100 gals 3% HFL & 7 1/2% HCL  
Swabbed back acid  
Fracture stimulated well as follows:  
Pumped 11,000 gals gelled lease crude pad, 50 BPH, 2200 psi  
Pumped 15,000 gals gelled lease crude w/1 ppg 10-20 sand, 55 BPH, 2200 psi  
Pumped 19,000 gals gelled lease crude w/2 ppg 10-20 sand, 45 BPH, 2150 psi  
Pumped 25,000 gals gelled lease crude w/7,000# 10-20 sand, 30 BPH, 2100 psi  
Pumped 6,700 gals gelled lease flush  
Cleaned out 20' of fill, run 2 7/8" tbg - hung tandem BHP bomb  
Swab tested well  
Ran pump & rods & began pumping back frac load - Report as of 12-26-78

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct  
Original Signed By *Larry R. Bell*  
SIGNED **Larry R. Bell** TITLE **Engineering Asst.** DATE **December 27, 1978**

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

696

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
**Kerr-McGee Corporation**

3. ADDRESS OF OPERATOR  
**P. O. Box 250, Amarillo, Texas 79189**

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: **1240' FNL, 980' FNL**  
AT TOP PROD. INTERVAL: **Same**  
AT TOTAL DEPTH: **Same**

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <b>Weekly report</b> <input checked="" type="checkbox"/>	<b>X</b> <input checked="" type="checkbox"/>

5. LEASE <b>Navajo</b>	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>Navajo</b>	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME <b>Navajo</b>	
9. WELL NO. <b>20</b>	
10. FIELD OR WILDCAT NAME <b>Dineh-Si-Kayah</b>	
11. SEC., T., R., OR BLK. AND SURVEY OR AREA <b>Sec 31, T36N, R30E, G55RM</b>	
12. COUNTY OR PARISH <b>Apache</b>	13. STATE <b>Arizona</b>
14. API NO.	
15. ELEVATIONS (SHOW DF, KOB, AND WD) <b>8476' GL. re-shot</b>	

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. 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.)

**Drilled 8 3/4" hole to 3980'**  
**Ran 7" csg. - 96 jts. 20# K-55 ST&C set csg. @ 3980'**  
**Cemented w/250 sks. Class "B"**  
**RD & MO Rotary - waiting to complete - operations slow due to 40" show**

**Report as of 12-9-78**

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_

18. I hereby certify that the foregoing is correct  
Original Signed By *Larry R. Bell*

SIGNED **Larry R. Bell** TITLE **Engineering Asst.** DATE **December 13, 1978**

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

696

Form 9-331  
Dec. 1973

Form Approved  
Budget Bureau No. 42-R1424

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
**Kerr-McGee Corporation**

3. ADDRESS OF OPERATOR  
**P. O. Box 250, Amarillo, Texas 79189**

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
**AT SURFACE: 1240' FNL & 980' FWL  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:**

5. LEASE  
**14 - 20 - 0603 - 8823**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
**Navajo**

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
**Navajo**

9. WELL NO.  
**20**

10. FIELD OR WILDCAT NAME  
**Dineh - Bi - Keyah**

11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA  
**Sec. 31, T36N, R30E  
G & S RM Survey**

12. COUNTY OR PARISH  
**Apache**

13. STATE  
**Arizona**

14. API NO.

15. ELEVATIONS (SHOW DEPTH OF KOB AND WD)  
**8469' GR**

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <b>Spud Date X</b>	

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. 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 well 11-18-78

Drilled 12 1/4" hole to 900'  
Ran 21 jts. 9 5/8" 32.3# H-40 csg.  
Cemented csg. w/500 sks. Class "B"  
Drilled 8 3/4" hole to 3295

Report as of 12-2-78

RECEIVED

DEC 6 1978

D & G CONS. CORP.

Subsurface Safety Valve: Manu. and Type

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

Original Signed By **Larry R. Bell** TITLE **Engineering Asst.** DATE **December 4, 1978**

SIGNED **Larry R. Bell**

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

696

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

APPLICATION TO DRILL

RE-ENTER OLD WELL

OCT 19 1978  
O & G CONS. COMM.

**KERR-McGEE CORPORATION**  
NAME OF COMPANY OR OPERATOR

Address **P. O. Box 250 - Amarillo** City **Texas** **79189** State

Drilling Contractor  
**Cactus Drilling Corporation**  
Address **Box 2146, Farmington, NM 87401**

**DESCRIPTION OF WELL AND LEASE**

Federal, State or Indian Lease Number, or if fee lease, name of lessor <b>14-20-0603-8823</b>	Well number <b>20</b>	Elevation (ground) <b>8469 GR</b>
Nearest distance from proposed location to property or lease line: <b>980'</b> feet	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: <b>1332</b> feet	
Number of acres in lease: <b>2533</b>	Number of wells on lease, including this well, completed in or drilling to this reservoir: <b>17</b>	
If lease, purchased with one or more wells drilled, from whom purchased: Name _____ Address _____		
Well location (give footage from section lines) <b>1240' FNL &amp; 980' FWL</b>	Section—township—range or block and survey <b>Sec 31, T36N, R30E, G&amp;SRM</b>	Dedication (Comply with Rule 105) <b>NW NW</b>
Field and reservoir (if wildcat, so state) <b>Dineh-Bi-Keyah</b>	County <b>Apache</b>	
Distance, in miles, and direction from nearest town or post office <b>10 Miles SW of Redrock, Arizona</b>		
Proposed depth: <b>3900</b>	Rotary or cable tools <b>Rotary</b>	Approx. date work will start <b>October 15, 1978</b>
Bond Status <b>Blanket Bond</b>	Organization Report On file <input checked="" type="checkbox"/> Or attached	Filing Fee of \$25.00 <b>Attached Previously Sent</b>
Remarks:		

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

*C. Alan Roberts*  
Signature **C. Alan Roberts**

October 13, 1978  
Date

Permit Number: **696**  
Approval Date: **10-19-78**  
Approved By: *[Signature]*  
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

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												
	<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> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%;">Name</td><td>C. Alan Roberts</td></tr> <tr><td>Position</td><td>District Manager</td></tr> <tr><td>Company</td><td>Kerr-McGee Corporation</td></tr> <tr><td>Date</td><td>October 13, 1978</td></tr> </table> <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> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Date Surveyed</td><td></td></tr> <tr><td>Registered Professional Engineer and/or Land Surveyor</td><td></td></tr> </table> <p>Certificate No. _____</p>	Name	C. Alan Roberts	Position	District Manager	Company	Kerr-McGee Corporation	Date	October 13, 1978	Date Surveyed		Registered Professional Engineer and/or Land Surveyor	
Name	C. Alan Roberts												
Position	District Manager												
Company	Kerr-McGee Corporation												
Date	October 13, 1978												
Date Surveyed													
Registered Professional Engineer and/or Land Surveyor													

**PROPOSED CASING PROGRAM**

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
9 5/8	32.3	H-40	0	1075	Surface	550 Sks
7	20.0	K-55	0	3900	3900	250 Sks



# PERMIT TO DRILL

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

To: Kerr-McGee Corporation  
(OPERATOR)

to drill a well to be known as

Navajo No. 20  
(WELL NAME)

located 1240' FNL & 980' FWL (NW/NW/4)

Section 31 Township 36N Range 30E, Apache County, Arizona.

The NW/NW<sup>4</sup> 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 19th day of October, 1978.

OIL AND GAS CONSERVATION COMMISSION

By W. E. [Signature]  
EXECUTIVE SECRETARY

PERMIT No 696

RECEIPT NO. 1211  
API No. 02-001-20245

State of Arizona  
Oil & Gas Conservation Commission  
Permit to Drill

FORM NO. 27

SAMPLES ARE REQUIRED

WRF

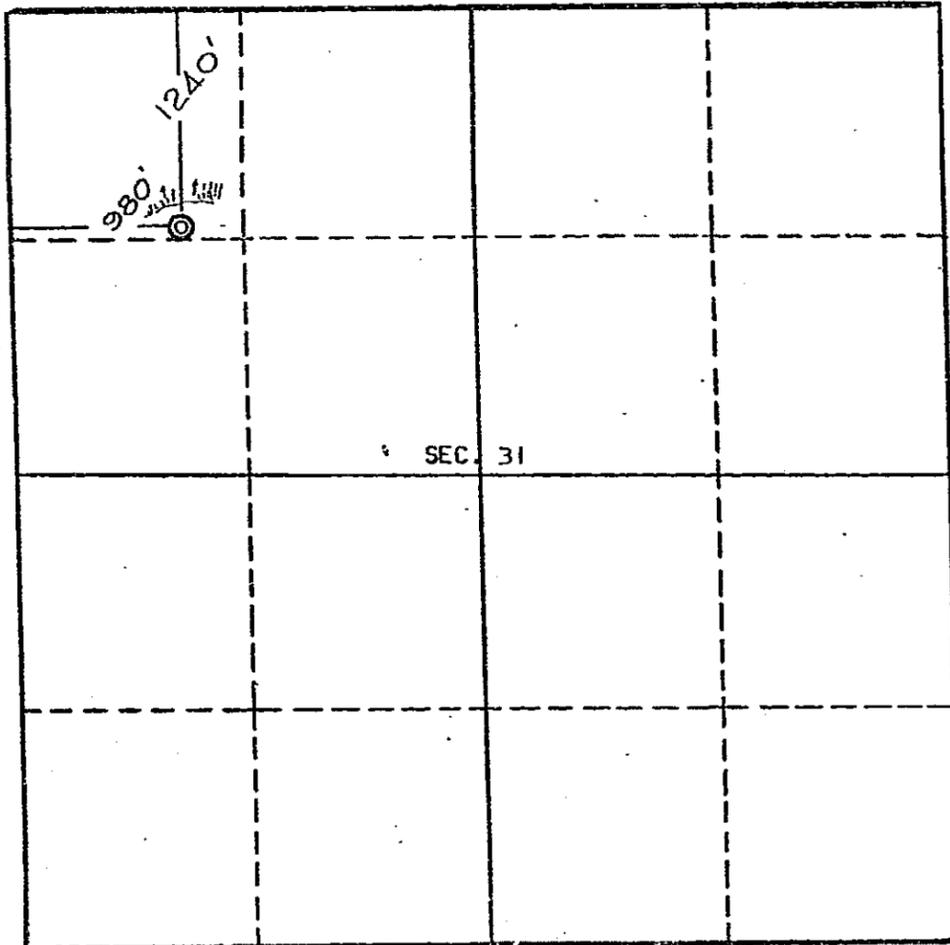
Company Kerr-McGee Corporation

Well Name & No. No. 20 Navajo

Location 1240 feet from the North line and 980 feet from the West line.

Sec. 31, T. 36 N., R. 30 E., G. & S. R. M., County Apache, Arizona

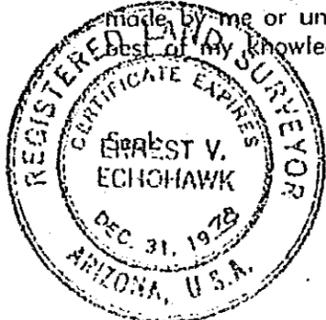
Ground Elevation 8469



Scale, 1 inch = 1,000 feet

Surveyed July 13, 19 78

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.



Ernest V. Echohawk  
 Ernest V. Echohawk  
 Registered Land Surveyor  
 Arizona Registration No. 2311

RECEIVED  
 OCT 19 1978  
 O & G CONS. COMM.

**DINEH-BI-KEYAH FIELD**

**Operator:** Mountian States Petroleum Corporation

**Bond Company:** Indian lands, evidence of bond posted with BIA

**Amount:** \$325,000\*

**Bond No.:** Letter of Credit Bond No. 315    **Date approved:** 5/27/94

**\* Pursuant to commission motion of October 31, 1997, no bond required with State of Arizona upon evidence of bond posted with the BIA.**

**Permits covered by this bond posted with the BIA:**

<u>377</u>	<u>445</u>
<u>384</u>	<u>446</u>
<u>385</u>	<u>484</u>
<u>386</u>	<u>506</u>
<u>388</u>	<u>618</u>
<u>389</u>	<u>691</u>
<u>390</u>	<u>692</u>
<u>396</u>	<u>693</u>
<u>416</u>	<u>695</u>
<u>417</u>	<u>696</u>
<u>419</u>	<u>719</u>
<u>421</u>	<u>720</u>
<u>422</u>	<u>721</u>
<u>431</u>	<u>722</u>
<u>443</u>	<u>723</u>



Jane Dee Hull  
Governor

State of Arizona  
**Arizona Geological Survey**

416 W. Congress, Suite 100  
Tucson, Arizona 85701  
(520) 770-3500



Larry D. Fellows  
Director and State Geologist

December 1, 1997

Ms. Stacey Roberts  
Kerr-McGee Corporation  
P.O. Box 25861  
Oklahoma City, OK 73125

696

Re: Kerr-McGee Corporation  
\$25,000 Oil Drilling Blanket Bond #2971100-2620  
Safeco Insurance Company of America

Dear Ms. Roberts:

Mountain States Petroleum has provided evidence of its bonding with the BIA for the Dineh-bi-Keyah Field in Arizona, and our records show that Kerr-McGee Corporation has no outstanding drilling or plugging obligations in Arizona.

As a result, this letter constitutes written permission by the Oil and Gas Conservation Commission to terminate liability under the referenced bond. A copy of the bond is enclosed for your information.

Please advise if we may be of further service.

Sincerely,

Steven L. Rauzi  
Oil & Gas Program Administrator

Enclosure

Operator KERR-McGEE CORPORATION

Bond Company SAFECO INSURANCE COMPANY OF AMERICA Amount \$25,000

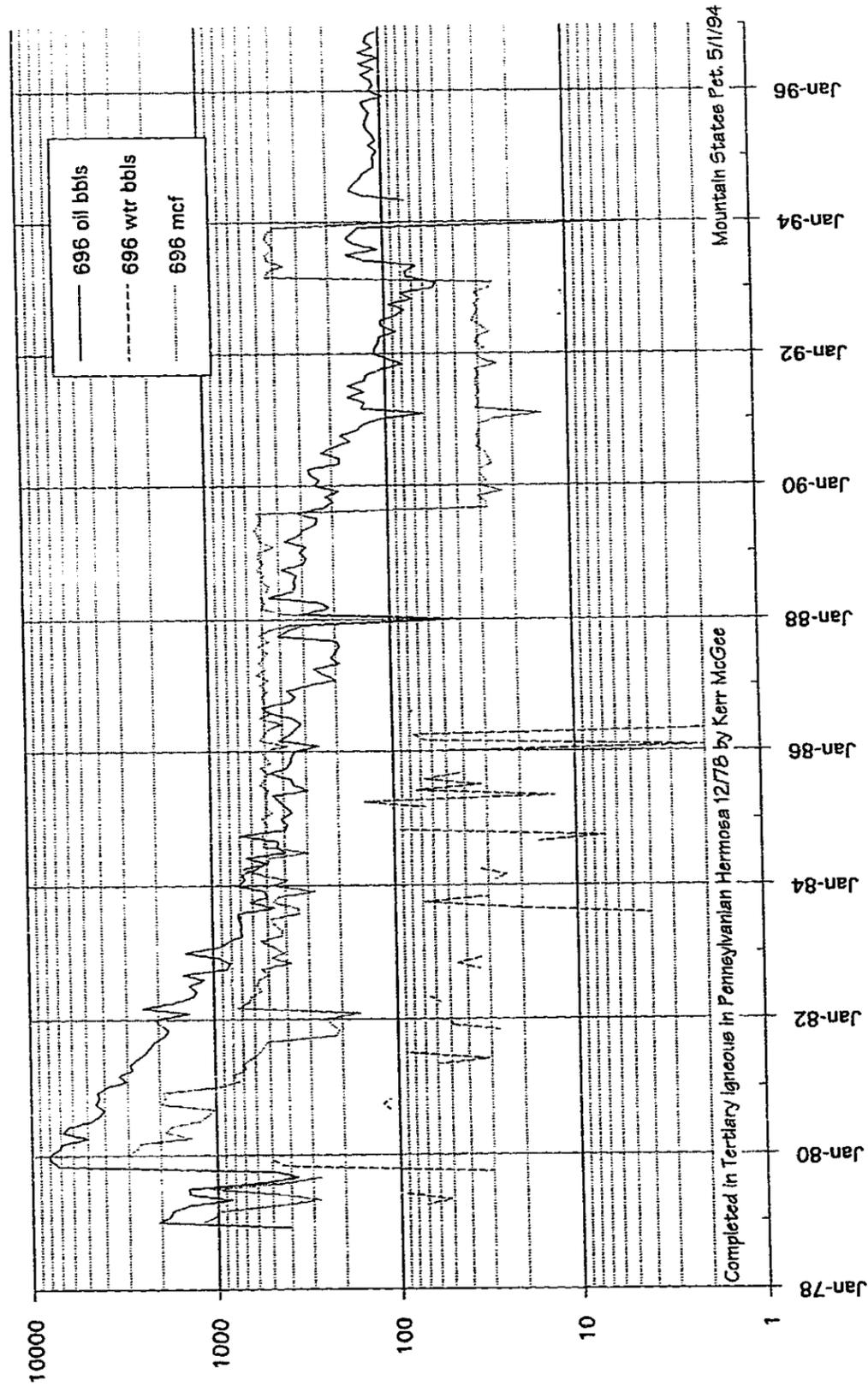
Bond No. 2971100-262D Date Approved FEBRUARY 18, 1994

ACTIVE DATE  
Permits covered by this bond:

377	445
384	446
385	484
386	506
388	618
389	691
390	692
396	693
416	695
417	696
419	719
421	720
422	721
431	722
443	723

**MONTHLY PRODUCTION AT 20 NAVAJO (696), ARIZONA: DEC 1978 - DEC 1996**

nw nw 31-36n-30e, Dineh-bi-Keyah Field, Apache County





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

June 8, 1994

Ms. Judy Burkhart  
Mountain States Petroleum Corporation  
P. O. Box 1936  
Roswell, New Mexico 88201

Dear Ms. Burkhart:

This will acknowledge receipt of your letter of June 6, which included a change of operator form for each of the 31 Kerr-McGee Corporation wells at the Dineh-bi-Keyah Field sold to Mountain States Petroleum Corporation. Our records indicate that the Navajo #B-1 was plugged and abandoned by Kerr-McGee Corporation in October 1993.

Please note that our records indicate a different API number than the one you have recorded on your forms for the following wells:

<u>Well</u>	<u>API #</u>
Navajo 01	02-001-20001
Navajo 03X	02-001-20011
Navajo 04	02-001-20009
Navajo 10	02-001-20042
Navajo 14	02-001-20040
Navajo 15	02-001-20041

Sincerely,

Steven L. Rauzi  
Oil & Gas Program Administrator

UNITED STATES DEPARTMENT OF THE INTERIOR  
MINERALS MANAGEMENT SERVICE  
ROYALTY MANAGEMENT PROGRAM

### CHANGES TO REPORTER INFORMATION

**OLD INFORMATION:**  
MMS OPERATOR CODE: X0217  
COMPANY NAME: KERR MCGEE CORPORATION

**NEW INFORMATION:**  
MMS OPERATOR CODE: X0274  
COMPANY NAME: MOUNTAIN STATES PETROLEUM CORP  
CONTACT NAME: RUBY WICKERSHAM  
STREET ADDRESS: 213 E FOURTH  
CITY: ROSWELL  
STATE: NM ZIP CODE: 88201  
PHONE: 505 623-7184  
AREA CODE

COMPLETE IF APPLICABLE:  
 I AM NO LONGER AN OPERATOR OF INDIAN OR FEDERAL PROPERTIES.  
PLEASE REMOVE MY NAME FROM YOUR MAILING LIST.

COMPANY SOLD TO: \_\_\_\_\_ EFFECTIVE DATE: \_\_\_\_\_

LEASES / AGREEMENTS AFFECTED: NAVAJO # 20 (696) AZ OIL & GAS CONSERVATION COMMISSION

Dineh Bi Keyah Field - Apache County, Arizona JUN 8 1994

Lease #: 14-20-0603-8823 API #: 020012024500S1

COMMENTS: This property was sold to Mountain States Petroleum Corp. and they became operator effective May 1, 1994.

SIGNATURE: Judy Burkhardt  
DATE: 5/13/94

MAIL TO:  
MINERALS MANAGEMENT SERVICE  
ROYALTY MANAGEMENT PROGRAM  
P.O. BOX 25165 MS 3122  
DENVER, CO 80225

696

P. O. BOX 1936

505 623-7184

**MOUNTAIN STATES PETROLEUM CORPORATION**

213 EAST FOURTH STREET  
ROSWELL, NEW MEXICO  
88202

June 6, 1994

Arizona Geological Survey  
845 North Park Avenue, #100  
Tucson, Arizona, 85719

**AZ OIL & GAS  
CONSERVATION COMMISSION**

JUN 8 1994

Attention: Steven L. Rauzi,  
Oil & Gas Program Administrator

Re: Dineh-bi-Keyah Field  
Apache County, Arizona

Dear Sir;

In followup of our May 24, 1994, letter to you relative to the change of operator from Kerr McGee to Mountain States Petroleum Corporation for the captioned field; please find enclosed a copy of the notices sent to the Minerals Management Service.

We hope this will supply the information you requested and apologize for any inconvenience we may have caused. If you have any questions or are in need of anything further please contact the undersigned. Thank you.

Sincerely,

*Judy Burkhart*  
Judy Burkhart,  
Secretary

Enclosures

P. O. BOX 1936

505 623-7184

**MOUNTAIN STATES PETROLEUM CORPORATION**

213 EAST FOURTH STREET  
ROSWELL, NEW MEXICO  
88202

May 24, 1994

Arizona Geological Survey  
845 North Park Avenue, #100  
Tucson, Arizona 85719

Attention: Steven L. Rauzi,  
Oil & Gas Program Administrator

Re: Dineh-bi-Keyah Field  
Apache County, Arizona

Dear Sir;

Please be advised that effective May 1, 1994, Mountain States Petroleum Corporation replaced Kerr-McGee as Operator of the captioned field and it's respective wells.

Listed on the attached sheet are the well names and API #'s of each well in this field, including shut-in, producing, and abandoned wells.

Please change your records to reflect that Mountain States Petroleum Corporation, Post Office Box 1936, Roswell, New Mexico, 88202-1936, (505) 623-7184, is now the operator of these properties and as such will be filing all required monthly production reports.

If you have any questions or are in need of anything further in this matter please contact the undersigned. Thank you.

Sincerely,

*Judy Burkhardt*

Judy Burkhardt,  
Secretary

Attachment

CONSERVATION COMMISSION

MAY 31 1994

696

October 19, 1978

Mr. C. Alan Roberts  
District Manager  
Kerr-McGee Corporation  
P.O. Box 250  
Amarillo, Texas 79105

Re: Kerr-McGee Navajo No. 20  
NW/4 NW/4 Sec. 30, T36N,  
R30E, Apache County  
State Permit No. 696

Dear Mr. Roberts:

Attached you will find your approved copy of the application to drill, the drilling permit, and our receipt No. 1211 in the amount of \$25.00.

Very truly yours,

W. E. Allen  
Director  
Enforcement Section

WEA/vb

Enc.



**KERR-McGEE CORPORATION**

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

RECEIVED

OCT 9 1978

D & G CONS. COMM.

PHONE  
806 376-7256

October 4, 1978

Arizona Oil and Gas Conservation Commission  
1645 West Jefferson, Suite 420  
Phoenix, Arizona 85007

Re: Filing Fee for Application  
for Permit to Drill Kerr-McGee  
Corporation's Navajo Well No. 20.

Gentlemen:

Please find enclosed Kerr-McGee Corporations' check, No. 14041, in the amount of \$25.00, for filing fee for application for permit to drill Kerr-McGee Corporations' Navajo Well No. 20, located 980' FWL and 1240' FNL of Section 31, T36N, R30E, G & SRM Survey, Apache County, Arizona.

Yours truly,

KERR-McGEE CORPORATION

Don L. Estes  
District Manager  
Southwest District - North America

DLE/dj  
Enclosure

KM-4290  
DETACH BEFORE DEPOSITING

ENVELOPE

REMITTANCE ADVICE

OCT 4 1978

KERR-MCGEE CORPORATION  
OIL AND GAS DIVISION

THE ENDORSEMENT BY PAYEE OF THE DETACHED CHECK CONSTITUTES RECEIPT IN FULL  
FOR THE ITEMS LISTED BELOW

14041

DATE		INVOICE NUMBER OR DESCRIPTION	GROSS AMOUNT		DISCOUNT		NET AMOUNT
MO.	DAY		CR.		CR.		
		FILING FEE FOR APPLICATION FOR PERMIT TO DRILL KERR-MCGEE CORPORATION'S NAVAJO WELL NO. 20, LOCATED 980' FWL AND 1240' FNL OF SECTION 31, T36N, R30E, G & SRM SURVEY, APACHE COUNTY, AZ					25.00
		RECEIVED					
		OCT 9 1978					
		O & G CONS. COMM.					