

Kerr-McGee 22 ~~NAV~~  
NW/SW 30, T36N, R30E  
Apache Co

692

COUNTY Apache AREA Redrock, A 2. LEASE NO. 14-20-0603-8823

WELL NAME Mtn. States Petroleum 32  
~~KERR-MCGEE~~ Navajo

LOCATION NW/4 SEC 30 TWP 36N RANGE 30E FOOTAGE 630 FWL & 1840 FSL

ELEV 7632 GR KB SPUD DATE 7-22-78 STATUS Del TOTAL  
 COMP. DATE 10-3-78 DEPTH 3300

CONTRACTOR Signal Oilfield Service, Inc. 8-31-78 PBTD 3220

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
<u>9 5/8"</u>	<u>341 RKB</u>	<u>2755X</u>		<input checked="" type="checkbox"/>
<u>7"</u>	<u>3300</u>	<u>2505X</u>		<input type="checkbox"/>

DRILLED BY CABLE TOOL   
 PRODUCTIVE RESERVOIR   
 INITIAL PRODUCTION 66 Bbl - 10 Bbl  
24 hrs

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
<u>Chino</u>	<u>0-740</u>			
<u>Cocconino</u>	<u>740</u>			
<u>Hermosa</u>	<u>2620</u>			
<u>Bls shale</u>	<u>3085</u>			
<u>Shist Intrusive</u>	<u>3130</u>			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
<u>Form. Density</u>	<u>3134-3214 W/35 sh</u>	<u>3134-3214</u>	SAMPLE DESCRP.
<u>GR-Cement Bond</u>			SAMPLE NO. <u>1801</u>
			CORE ANALYSIS <u>None</u>
			DSTs <u>None</u>

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

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

BOND CD. Firemen's Insurance Company John P/N 723 BOND NO. BND 188-98-10-528  
BIA BOND AMT. \$ 25,000. CANCELLED 12-1-97 DATE \_\_\_\_\_  
 FILING RECEIPT 1090 LOC. PLAT X WELL BOOK X PLAT BOOK X ORGANIZATION REPORT 6-29-69  
 API NO. 02-001020241 DATE ISSUED 5-11-78 DEDICATION NA

PERMIT NUMBER 692

### 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>22</b>	Field & Reservoir <b>Dineh-Bi-Keyah (Hermosa)</b>
Location <b>1840' FSL &amp; 630' FWL</b>		County <b>Apache</b>	
Sec. TWP-Range or Block & Survey <b>Sec. 30, T36N, R30E, G &amp; SRM Survey</b>			
Date spudded <b>7-22-78</b>	Date total depth reached <b>8-1-78</b>	Date completed, ready to produce <b>8-31-78</b>	Elevation (DF, RKB, RT or Gr.) <b>7632 feet</b>
Total depth <b>3300</b>		P.B.T.D. <b>3220</b>	Elevation of casing hd. flange <b>7632 feet</b>
Producing interval (s) for this completion <b>3130' - 3212' Intrusive</b>		Rotary tools used (interval) <b>0-3300</b>	Cable tools used (interval) -----
Was this well directionally drilled? <b>NO</b>	Was directional survey made? <b>NO</b>	Was copy of directional survey filed? <b>NO</b>	Date filed -----
Type of electrical or other logs run (check logs filed with the commission) <b>CBL - CCL - GR</b>			Date filed <b>10-2-78</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 1/2	9 5/8"	32.3	341 RKB	275	
Production	8 3/4	7"	20	3300 RKB	250	

TUBING RECORD

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
2 7/8 in.	3217 ft	----- ft.	in.	ft.	ft.		

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval
35 Holes	Selectively shot	3134' - 3214'	1416gal 37HF & 7 1/2% HCL	3134' - 3214'
			58,000gals crude; 87,000# 10-20 sand	3134' - 3214'

INITIAL PRODUCTION

Date of first production <b>8-19-78</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 16' BHP</b>				
Date of test <b>9-26-78</b>	Hrs. tested <b>24</b>	Choke size <b>NONE</b>	Oil prod. during test <b>66 bbls.</b>	Gas prod. during test <b>33.5 MCF</b>	Water prod. during test <b>10 bbls.</b>	Oil gravity <b>40 ° API (Corr)</b>
Tubing pressure <b>N/A*</b>	Casing pressure <b>N/A*</b>	Cal'ed rate of Production per 24 hrs. <b>Oil 66 bbls. Gas 33.5 MCF</b>	Water <b>10 bbls.</b>	Gas-oil ratio <b>508</b>		
Disposition of gas (state whether vented, used for fuel or sold): <b>Vented</b>						

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the District Production Superintendent 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 10-3-78

Signature H. H. Rice  
District Production Superintendent

\* Not Available

Permit No. **692**

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Well Completion or Recompletion Report and Well Log  
Form No. 4  
File ~~One~~ Copy

**DETAIL OF FORMATIONS PENETRATED**

Formation	Top	Bottom	Description*
Chinle	0	740	Red shale w/thin stringers of sand
Coconino	740	1490±	Massive sandstone w/shaley stringers
Hermosa	2620	3085	Gray, dense limestone w/some gray shale and limestone stringers
Black Shale	3085	3130	Black Shale
Shist Intrusive	3130	3212	Syenite

\* 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.

**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</b>	Field <b>Dineh-BI-Keyah</b>	Reservoir <b>Hermosa</b>
Survey or Sec-Twp-Rge <b>Sec29,30,31,32 T-36N-R30E</b>	County <b>Apache</b>	State <b>AZ</b>
Operator <b>Mountain States Petroleum Corp.</b>		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street <b>P O Bx 1936</b>	City <b>Roswell,</b>	State <b>New Mexico 88202</b>
Above named operator authorizes (name of transporter) <b>Giant Industries</b>		
Transporter's street address <b>P O Bx 12999</b>	City <b>Scottsdale,</b>	State <b>AZ</b>
Field address <b>P O Bx 256 (Bloomfield Hwy) Farmington, N M 87499</b>		
Oil, condensate, gas well gas, casinghead gas		
To transport	<b>100% of the</b>	<b>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.  <b>Change of Oper.</b>		

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. Rainy

Permit No. 692

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>	Reservoir <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. Rainz

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

692

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SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Kerr-McGee Corporation

2. OIL WELL  GAS WELL  OTHER  (Specify) \_\_\_\_\_

3. Well Name Navajo #22  
 Location 1840' FSL & 630' FWL  
 Sec. 30 Twp. 36N Rge. 30E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease Navajo Lease ID # 14-20-0603-8823

5. Field or Pool Name Dineh-Bi-Keyah

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) _____	ABANDONMENT <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. 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.)

11/15/83 Pumped 500 gallons of a 15% HCl-Xylene 50/50 mix down annulus at 0 psi, 5 BPM. Additives in acid were:

1 gal/1000 gallons:	iron control agent
" "	clay stabilizer
" "	iron scale inhibitor
" "	surfactant non-emulsifier
" "	corrosion inhibitor

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

Signed Daron Reynolds Title Engineering Assist. Date 12/09/83

STATE OF ARIZONA  
 OIL & GAS CONSERVATION COMMISSION  
 Sundry Notices and Reports On Wells  
 File Two Copies  
 Form No. 28

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

GAS-OIL RATIO TEST REPORTS

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

1. Name of Operator KERR-McGEE CORPORATION

2. OIL WELL  GAS WELL  OTHER  (Specify) \_\_\_\_\_

3. Well Name NAVAJO # 22

Location 1860' FSL & 630' FWL

Sec. 30 Twp. 36N Rge. 30E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease \_\_\_\_\_

5. Field or Pool Name \_\_\_\_\_

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

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TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
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SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Weekly Report</u>	ABANDONMENT <input type="checkbox"/>
(OTHER) _____			<input checked="" type="checkbox"/>

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7. 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.)

Pumping well. Put well on time clock

1 hr. on, 1 hr. off

Will test 9-25-78

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

Signed Larry R. Bell Title Engineering Asst. Date 9-21-78

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Form No. 25

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Sundry Notices and Reports On Wells  
File Two Copies

Permit No. 692

**SUNDRY NOTICES AND REPORTS ON WELLS**

1. Name of Operator KERR-McGEE CORPORATION

2. OIL WELL  GAS WELL  OTHER  (Specify) \_\_\_\_\_

3. Well Name Navajo # 22

Location 1860' FSL and 630' FWL

Sec. 30 Twp. 36N Rge. 30E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-0603-8823

5. Field or Pool Name Dineh - Bi - Keyah

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
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SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Weekly Report</u>	ABANDONMENT <input type="checkbox"/>
(OTHER) _____			<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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Lowered tbg. Seating nipple at 3205'.  
Shot fluid level: 101 jts. down. 30' fluid in hole.

9-14-78: Testing well

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

Signed Larry R. Bell Larry R. Bell Title Engineering Asst. Date 9-14-78

Permit No. 692

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**SUNDRY NOTICES AND REPORTS ON WELLS**

1. Name of Operator Kerr-McGee Corporation  
 2. Oil Well  GAS Well  OTHER  (Specify) \_\_\_\_\_  
 3. Well Name Navajo 22  
 Location 1860' FSL and 630' FWL  
 Sec. 30 Twp. 36N Rge. 30E County Apache Arizona.  
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease: 14-20-0603-8823  
 5. Field or Pool Name Dineh-Bi-Keyah

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
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REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Weekly report</u>	ABANDONMENT <input type="checkbox"/>
(OTHER) _____			<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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Pumping back frac load - all of frac load recovered  
 O.A.R.T.: Waiting on pulling unit to lower tubing.

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

Signed Larry R. Bell *Larry R. Bell* Title Engineering Asst. Date 9-7-78

Permit No. 692

STATE OF ARIZONA  
 OIL & GAS CONSERVATION COMMISSION  
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**SUNDRY NOTICES AND REPORTS ON WELLS**

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2. OIL WELL  GAS WELL  OTHER  (Specify) \_\_\_\_\_

3. Well Name Navajo #22

Location 1860' FSL & 630' FWL

Sec. 30 Twp. 36N Rgn. 30E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-0603-8823

5. Field or Pool Name Dineh-Bi-Keyah

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NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:					
TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>	MONTHLY PROGRESS	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	DIRECTIONAL DRILL	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	PERFORATE CASING	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>	(OTHER) Weekly Progress	<input checked="" type="checkbox"/>	ABANDONMENT	<input type="checkbox"/>
(OTHER)	<input type="checkbox"/>						

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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Rigged up well service unit. Pulled pump. Pulled 3 jts. tubing, ran rods and pump. Well would not pump, pulled rods, pump, and tubing. Shot fluid level - was at 1100' from surface. Tested tubing going in hole. Problems with standing valve. Pulled tubing and began swabbing. Swabbed 199 barrels of 100% oil. Run tubing, pump, and rods. Put well on pump. (74" stroke, 11 1/2 SPM). Well produced 316 BO and 0 BW in 17 hours.

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

Signed Larry R Bell Larry R. Bell, Title Engineering Asst. Date August 30, 1978

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Permit No. 692

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STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Sundry Notices and Reports On Wells  
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Form No. 25

**SUNDRY NOTICES AND REPORTS ON WELLS**

1. Name of Operator Kerr-McGee Corporation  
 2. Oil WELL  GAS WELL  OTHER  (Specify) \_\_\_\_\_  
 3. Well Name Navajo #22  
 Location 1860' FSL & 630' FWL  
 Sec. 30 Twp. 36N Rge. 30E County Apache Arizona.  
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease: 14-20-0603-8823  
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NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
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REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>		ABANDONMENT <input type="checkbox"/>
(OTHER) _____		(OTHER) <u>Weekly Progress</u>	<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. 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.)

Acidized well w/ 1416 gal., 3% HF & 7 1/2% HCL w/ 72 ball sealers; good ball action.  
 A.I.R.: 4 BPM, I.S.P.: 300 psi. Swabbed acid back (35 bbls).

Ran 24 hr. BHP Survey: 22 1/2 hrs. SII. B.H.P. @ 3050': 485 psi, F.L. @ 1800'.

Fracture treated well w/ 58,000 gals jelled crude & 87,000 lbs. 10-20 sand.

A.I.R.: 54 BPM, A.I.P.: 1850 psi, I.S.D.P. 1000 psi, 1 hr. S.I.P.: 620 psi.

Sand pumped out 20' of fillup.

Ran 2 7/8" tbg. set @ 3215'

Ran 2 1/2" x 2" x 20' B.H. pump, 127 - 3/4" rods, set pumping unit, hooked up flow lines, electrical lines. Cleaned up location, Put well on pump 8-18-78, well quit pumping.

O.A.R.T.: Waiting on pulling unit.

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

Signed Larry R. Bell Larry R. Bell Title Engineering Asst. Date August 22, 1978

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**AUG 24 1978**

**D & G CONS. COMM.**

STATE OF ARIZONA  
 OIL & GAS CONSERVATION COMMISSION  
 Sundry Notices and Reports On Wells  
 File Two Copies

Form No. 25

Permit No. 692

**SUNDRY NOTICES AND REPORTS ON WELLS**

1. Name of Operator Kerr-McGee Corporation  
 2. Oil Well  GAS WELL  OTHER  (Specify) \_\_\_\_\_  
 3. Well Name Navajo #22  
 Location 1860' FSL and 630'FWL  
 Sec. 30 Twp. T36N Rge. R30E County Apache Arizona.  
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease: 14-20-0603-8823

5. Field or Pool Name Dineh-Bi-Keyah

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>		ABANDONMENT <input type="checkbox"/>
(OTHER) _____		(OTHER) <u>Weekly Report</u>	<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. 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.)

Rigged up completion unit (Farmington Well Service)  
 Nippled up BOP's  
 Ran bit & scraper to P.B.T.D. of 3220' RKB  
 Ran CBL-CCL-GR Log (loggers P.B.T.D. 3229')  
 Top of cement @ 2150"  
 Perforated Hermosa 3134" to 3214 (selectively shot 35 holes)  
 OART: Acidizing and preparing to fracture treat

**RECEIVED**

AUG 14 1978

O & G CONS. COMM.

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

Signed Larry R. Bell Title Engineering Asst. Date August 11, 1978

STATE OF ARIZONA  
 OIL & GAS CONSERVATION COMMISSION  
 Sundry Notices and Reports On Wells  
 File Two Copies  
 Form No. 25

Permit No. 692

SUNDRY NOTICES AND REPORTS ON WELLS

RECEIVED

AUG 4 1978

O & G CONS. COMM.

1. Name of Operator Kerr-McGee Corporation  
 2. Oil WELL  GAS WELL  OTHER  (Specify) \_\_\_\_\_  
 3. Well Name Navajo #22  
 Location 1840' ESL & 630' FWL (NW SW)  
 Sec. 30 Twp. T36N Rge. R30E County Apache Arizona.  
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-0603-8823  
State No. 692  
 5. Field or Pool Name Dineh-BiKeyah

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Weekly report</u> <input checked="" type="checkbox"/>	ABANDONMENT <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. 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.)

T.D. as of 7-27-78 - 2240'  
 Drilled with air to 3130'  
 Filled hole with mud to drill to T.D.  
 Ran I.E.S. Gamma Ray Log - loggers' T.D. 3306'  
 Ran 81 jts. of 7" K-55, 20#/ft. ST&C csg.  
 Set csg. @ 3305' csg measurement  
 Oart: Cementing csg.

Drillers' T. D. as of 8-2-78: 3300'

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

Signed Larry R. Bell Larry R. Bell Title Engineering Assistant Date August 2, 1978

Permit No. 692

STATE OF ARIZONA  
 OIL & GAS CONSERVATION COMMISSION  
 Sundry Notices and Reports On Wells  
 File Two Copies  
 Form No. 25

**SUNDRY NOTICES AND REPORTS ON WELLS**

1. Name of Operator Kerr-McGee Corporation

2. Oil Well  GAS WELL  OTHER  (Specify) \_\_\_\_\_

3. Well Name Navajo #22

Location 1840 FSL & 630' FWL (NW SW)

Sec. 30 Twp. T36N Rge. R30E County Apache Arizona

4. Federal, State or Indian Lease Number, or Lessor's name if fee lease 14-20-0603-8823

State No. 692

5. Field or Pool Name Dineh-Bi-Keyah

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input checked="" type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Weekly report</u>	ABANDONMENT <input type="checkbox"/>
(OTHER) _____			<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. 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.)

Completed location 7-20-78  
 Moved in & rigged up rotary  
 Spudded @ 4:00 AM 7-22-78  
 Drilled 12 1/4" hole to 350'  
 Ran 8 jts - 9 5/8", 32.3# H-40, ST & C csg set at 341 RKB  
 Cemented csg w/275 sks Class "B" cement w/2% CaCl & 1/4 # Flocele/sk P/S  
 Bumped plug w/800 PSI circulated out 50 sks  
 Cut off csg & welded on 9 5/8" X 10" 600 PSI SOW csghead  
 Installed Shaffer double 10" 900 PSI BOP - Tested OK  
 Began drlg 8 3/4" hole 7-24-78  
 T.D. as of 7-27-78: 2240

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

Signed Larry R. Bell Larry R. Bell Title Engr. Asst Date 7-27-78

Permit No. 692

RECEIVED

JUL 31 1978

D & G CONS. COMM.

STATE OF ARIZONA  
 OIL & GAS CONSERVATION COMMISSION  
 Sundry Notices and Reports On Wells  
 File Two Copies

Form No. 23



1. Operator shall outline the dedicated acreage for both oil and gas wells on the plat. Outlined in red
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> <p><i>William G. Callaway</i> Name William G. Callaway Position District Manager Company Kerr-McGee Corporation Date May 1, 1978</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>

**PROPOSED CASING PROGRAM**

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
9 5/8"	32.3#	H-40 ST&C	0	350	350	325 sks
7"	20#	K-55 ST&C	0	3,450	3,450	250 sks

APR 21 1978

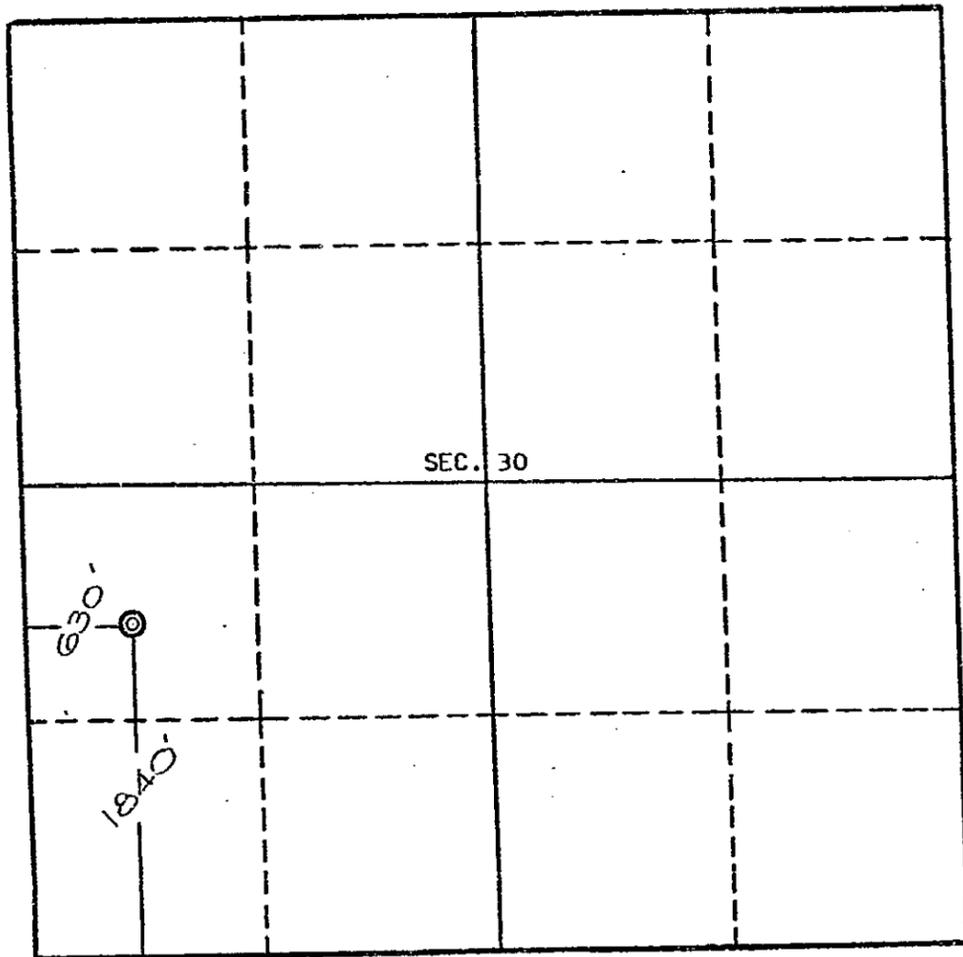
Company Kerr-McGee Corporation

Well Name & No. No. 22 Navajo

Location 1840 feet from the South line and 630 feet from the West line.

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

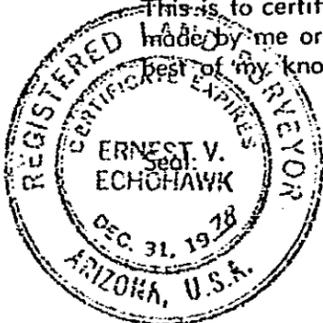
Ground Elevation 7632



Scale, 1 inch = 1,000 feet

Surveyed April 8, 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.



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



# 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. 22  
(WELL NAME)

located 630' FWL & 1840' FSL (NW/SW/4)

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

The N.A. 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 11th day of May, 1978.

OIL AND GAS CONSERVATION COMMISSION

By W.B. Allen  
EXECUTIVE SECRETARY

PERMIT N<sup>o</sup> 692

RECEIPT NO. 1090

API No. 02-008-20241

State of Arizona  
Oil & Gas Conservation Commission  
Permit to Drill

FORM NO. 27

SAMPLES ARE REQUIRED

**DINEH-BI-KEYAH FIELD**

**Operator:** Mountain 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

692

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

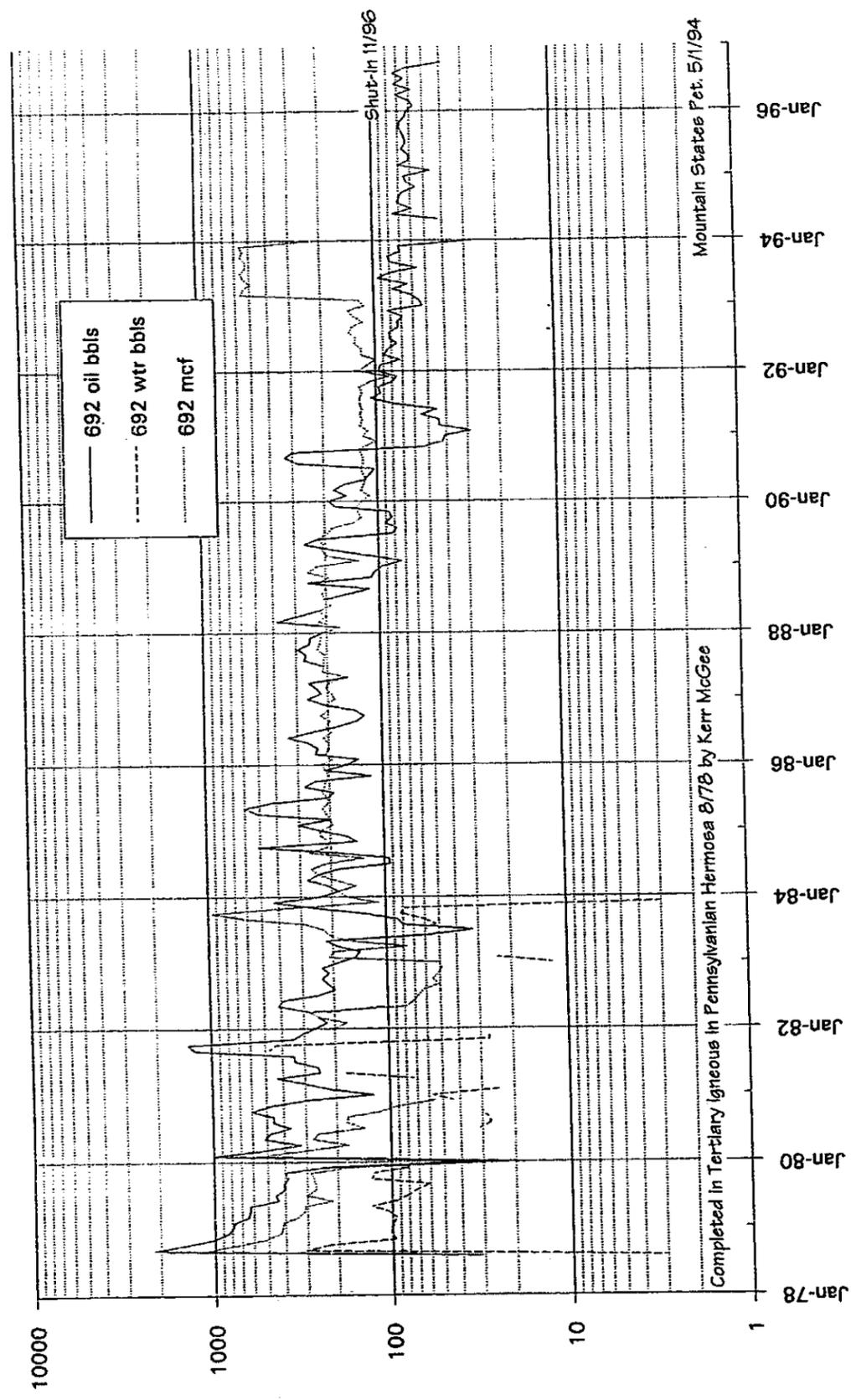
Operator KERR-McGEE CORPORATION  
Bond Company SAFECO INSURANCE COMPANY OF AMERICA Amount \$25,000  
Bond No. 2971100-2620 Date Approved FEBRUARY 18, 1994  
DATE

ACTIVE

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 22 NAVAJO (692), ARIZONA: AUG 1978 - DEC 1996**  
nw sw 30-36n-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: X 0 2 1 7  
COMPANY NAME: K E R R M C G E E C O R P O R A T I O N

**NEW INFORMATION:**

MMS OPERATOR CODE: X 0 2 7 4  
COMPANY NAME: M O U N T A I N S T A T E S P E T R O L E U M C O R P  
CONTACT NAME: R U B Y W I C K E R S H A M  
STREET ADDRESS: 2 1 3 E F O U R T H  
CITY: R O S W E L L  
STATE: N M ZIP CODE: 8 8 2 0 1 -  
PHONE: 5 0 5 6 2 3 - 7 1 8 4  
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 # 22 (692) **AZ OIL & GAS CONSERVATION COMMISSION**  
Dineh Bi Keyah Field - Apache County, Arizona JUN 8 1994  
Lease #: 14-20-0603-8823 API #: 020012024100S1

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

SIGNATURE: Judy Beubhart  
DATE: 5/13/94

MAIL TO:  
MINERALS MANAGEMENT SERVICE  
ROYALTY MANAGEMENT PROGRAM  
P.O. BOX 25165 MS 9122  
DENVER, CO 80225

692

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

AS  
CONSERVATION COMMISSION

MAY 31 1994



**KERR-McGEE CORPORATION**

4221 WEST TWENTY-FIRST AVENUE  
P. O. BOX 250 • AMARILLO, TEXAS 79189

RECEIVED

DEC 12 1983

O & G CONS. COMM.

OIL AND GAS DIVISION

PHONE

806 359-0351

December 8, 1983

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

Attn: Rudy Ybarra

Re: Form 25 for Kerr-McGee Corporation's  
Navajo Lease, Wells #14, #25 and  
#22. Located in Dineh Bi Keyah  
Field, Apache County, Arizona

Mr. Ybarra:

Statewide Rule 115 of the Arizona Conservation Commission's rules and regulations governing oil, gas and helium production requires operators to report the chemical treatment of any well to the Commission on the prescribed form (Form 25).

In order to comply with Statewide Rule 115, Kerr-McGee is submitting Form 25, "Sundry Notices and Reports on Wells," for the Navajo #14, #22 and #25.

Should any additional information be required, please contact me at this office.

Sincerely,

Aaron Reyna  
Engineering Assistant

Joe Stein  
District Engineer  
Southwest District - N. A.

AR/vt  
Enclosure



**KERR-MCGEE CORPORATION**

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

RECEIVED

JUL 31 1978

O & G CONS. COMM.

OIL AND GAS DIVISION

PHONE  
806 376-7256

July 27, 1978

State of Arizona  
Arizona Oil & Gas Conservation Commission  
1645 W. Jefferson  
Suite 420  
Phoenix, Arizona 85007

Attention: W. E. Allen

Dear Mr. Allen:

Enclosed please find two (2) copies of Form No. 25, "Sundry Notices and Reports on Wells," for Kerr-McGee Corporation's Navajo No. 22, located in Apache County, Arizona, Dineh-Bi-Keyah Field.

Should you need further information concerning operations to date, please call me collect at 806/376-7256.

Sincerely,

KERR-MCGEE CORPORATION

*Larry R. Bell*

Larry R. Bell  
Southwest District - N. A.

LRB/sp

~~692~~  
692

May 11, 1978

Mr. William G. Callaway  
District Manager  
Kerr-McGee Corporation  
P.O. Box 250  
Amarillo, Texas 79105

Re: Kerr-McGee Navajo No. 22  
NW/4 SW/4 Sec. 30, T36N,  
R30E, Apache County  
State Permit No. 692

Dear Mr. Callaway:

Attached you will find your approved copy of the application to drill, the drilling permit, and our receipt No. 1090 in the amount of \$25.00.

It will be appreciated if you will advise me prior to spudding this well.

Very truly yours,

W. E. Allen  
Director  
Enforcement Section

WEA/vb

Enc.

May 11, 1978

Mr. William G. Callaway  
District Manager  
Kerr-McGee Corporation  
P.O. Box 250  
Amarillo, Texas 79105

Re: Kerr-McGee Navajo No. 22  
NW/4 SW/4 Sec. 30, T36N,  
R30E, Apache County  
State Permit No. 692

Dear Mr. Callaway:

Attached you will find your approved copy of the application to drill, the drilling permit, and our receipt No. 1090 in the amount of \$25.00.

It will be appreciated if you will advise me prior to spudding this well.

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

May 8, 1978

PHONE  
806 376-7256

State of Arizona  
Oil & Gas Conservation Commission  
1645 W. Jefferson, Suite 420  
Phoenix, Arizona 85007

Re: Application for Permit to  
Drill Kerr-McGee Corporation's  
Navajo Well No. 22, Dineh-Bi-Keyah  
Field

Gentlemen:

Kerr-McGee Corporation proposes to drill the above referenced well. The proposed well will be located in Section 30, T36N, R30E, G&SRM Survey, Apache County, Arizona.

Two copies of Form No. 3, "Application for Permit to Drill or Re-enter", two copies of a Registered Surveyor's Plat, and a check in the amount of \$25.00 for the filing fee are enclosed for the subject well.

This well is part of an in-fill development program designed to optimize the recovery of hydrocarbons from the Lower Hermosa Formation in the Dineh-Bi-Keyah Field. By amendment to the Commission Order No. 24 dated April 21, 1978, Kerr-McGee Corporation respectfully requests the administrative approval of the enclosed application for permission to drill the subject well.

Should you require further information concerning the proposed well, please call me collect at 806/376-7256.

Sincerely,

KERR-McGEE CORPORATION

*William G. Callaway*

William G. Callaway  
District Manager  
Southwest District - N. A.

LB/vs

cc: Navajo Tribe  
Minerals Department  
P. O. Box 146  
Window Rock, Arizona 86515

KM-1473-F

DETACH BEFORE DEPOSITING

RUSH

LONG T2506

REMITTANCE ADVICE

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

KERR - MCGEE CORPORATION  
OIL AND GAS DIVISION

85399

DATE		INVOICE NUMBER OR DESCRIPTION	GROSS AMOUNT		DISCOUNT		NET AMOUNT
Mo.	DAY		CR.		CR.		
		FILING FEE FOR APPLICATION FOR PERMIT TO DRILL KERR-MCGEE NAVAJO WELL NO. 22, LOCATED 1,840' FSL & 630' FWL OF SECTION 30, T36N, R30E, G&SRM, APACHE COUNTY, AZ					25 00