

Release Date 8-11-67 *ML*

**CONFIDENTIAL**



**P-W**

Kerr-McGee #15 Navajo  
SE SW 30-36N-30E Apache County

sl

COUNTY Apache AREA 10 mi SW Red Rock LEASE NO. Nav. 14-20-0603-8823

WELL NAME Mtn. States Petroleum (5-1-94)  
~~Kerr-McGee #15 Navajo~~

LOCATION SE SW SEC 30 TWP 36N RANGE 30E FOOTAGE 860 FSL - 1980 FWL  
ELEV 7679 GR KB SPUD DATE 6-15-67 STATUS Oil TOTAL 3246'  
COMP. DATE 9-19-67 DEPTH PB 3241'

CONTRACTOR Pico Drilling Co., 3800 S. Sunset Avenue, Farmington

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
9 5/8"	262	310 SKS	NA	<input checked="" type="checkbox"/>
7"	3159'	150 SKS		<input type="checkbox"/>
PRODUCTIVE RESERVOIR				<input type="checkbox"/>
INITIAL PRODUCTION				<u>118 Bbls.</u>

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Chinle	Surface		x	
Coconino	794'			
Cutler	1513'			
Hermosa	2640'			
Sill	3151'			
Hermosa	3245'			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
Compen. Formation			SAMPLE DESCRP. <u>Farm Cut</u>
Density, Borehole Sonic			SAMPLE NO. <u>1419</u>
GR, TE-I-GR			CORE ANALYSIS
			DSTs
			Tucson 2083

REMARKS 7-7-67 fractured (TD3225) July pumptested; July prod. APP. TO PLUG   
3,816 SCP. deepended to 3246 TD 9-7-67 frac & swabbing PLUGGING REP.   
 COMP. REPORT

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

BOND CO. Firemen's Insurance Company **BABOND** BOND NO. 188 98 10-528  
 BOND AMT. \$ 25,000 CANCELLED 12/1/97 DATE 7-14-60  
 FILING RECEIPT 9508 LOC. PLAT  WELL BOOK  PLAT BOOK   
 API NO. 02-001-20041 DATE ISSUED 6-8-67 DEDICATION SW/4

PERMIT NUMBER 417  
 (over) Release Date 8-11-67

**CONFIDENTIAL**

## 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 **215 Petroleum Center Bldg. Farmington, New Mexico**

Federal, State or Indian Lease Number or name of lessor if fee lease **14-20-0603-8823** Well Number **NO. 15** Field & Reservoir **Dineh-bi-Keyah Field**

Location **860' FSL & 1980' FWL** County **Apache**

Sec. TWP-Range or Block & Survey **Sec. 30, T36N, R30E**

Date spudded **6-15-67** Date total depth reached **8-22-67** Date completed, ready to produce **9-19-67** Elevation (DE, BKH, RT, or Gr.) **7679' GR** Elevation of casing hd. range **3159'-3246'**

Total depth **3246'** P.B.T.D. **3241'** Single, dual or triple completion? **Single** If this is a dual or triple completion, furnish separate report for each completion.

Producing interval (s) for this completion **3159'-3241'** Rotary tools used (interval) **0-3159'** Cable tools used (interval) **3159'-3246'**

Was this well directionally drilled? **NO.** Was directional survey made? **NO.** Was copy of directional survey filed? **NO.** Date filed **- - -**

Type of electrical or other logs run (check logs filed with the commission) **Ind.-Elect. & Gamma Ray, Sonic-GR, Formation Density Log** Date filed **7-18-67**

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	15"	9-5/8"	32.30	262	310 sacks	None.
Production	8-3/4"	7"	20	3159'	100 sxs 50-50 Pozmix, 50 sxs common cmt.	None.

TUBING RECORD

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
3-1/2 in.	3182' ft.	None ft.	- - in.	None ft.	ft.		

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval
<b>Open Hole completion from 3159'-3241'</b>				
			60,000 gal oil, 30,000# sd.	3159'-3225'
			83,000 gal 5% Acid, 45,000#	3159'-3241'

INITIAL PRODUCTION sd. & 7000# rock salt.

Date of first production **7-14-67** Producing method (indicate if flowing, gas lift or pumping—If pumping, show size & type of pump:) **Pumping 3"x1-1/2"x16' Volume Prod.**

Date of test	Hrs. tested	Choke size	Oil prod. during test	Gas prod. during test	Water prod. during test	Oil gravity
9-28-67	24	None	118 bbls.	28 MCF	20 bbls.	43.0 API (Corr)

Tubing pressure	Casing pressure	Cal'ated rate of Production per 24 hrs.	Oil	Gas	Water	Gas-oil ratio
5	0		118 bbls.	28 MCF	20 bbls.	238 ft/bbl.

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 the **Production Supt.** 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 **10-3-67** Signature *[Handwritten Signature]*

Permit No. **417**

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION

Well Completion or Recompletion Report and Well Log  
File One Copy

Form No. 4



DETAIL OF FORMATIONS PENETRATED

☆

Formation	Top	Bottom	Description*
CHINLE	Surface	794'	RED SH. W/THIN STRINGERS SS.
COCONINO	794'	1513'	MASSIVE SS W/SHALY STRINGERS IN LOWER 250'
CUTLER	1513'	2640'	SL, SS, AND LM.
HERMOSA	2640'	3151'	IMS, DENSE & TITE, W/RED AND GRAY SH, SOME THIN SD STRINGERS.
SILL	3151'	3225'	SYENITE.
Hermsoc	3145'	3246 TD 627	lms.

\* 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 <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>		
Oil, condensate, gas well gas, casinghead gas		
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. 417

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

Form 3160-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

5. Lease Designation and Serial No.  
14-20-0603- 8823

6. If Indian, Allottee or Tribe Name  
Navajo

7. If Unit or CA, Agreement Designation  
f/r 417

8. Well Name and No.  
Navajo #15

9. API Well No.  
02-001-20041

10. Field and Pool, or Exploratory Area  
Dineh-Bi-Keyah

11. County or Parish, State  
Apache Co., AZ

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
Kerr-McGee Corporation

3. Address and Telephone No.  
405/270-6023  
U.S. Onshore Region, P. O. Box 25861, Oklahoma City, OK 73125

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
860' PSL & 1980' FWL  
Sec. 30, T36N, R30E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Shut-in</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

13. 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.)

The long-term shut-in for the subject well expired 12-31-92. Kerr-McGee requests a one year extension to 12-31-93.

**APPROVED**

By SLR  
Date 2/17/93



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

Signed D. Bunar Title Regulatory Specialist Date 2-15-93

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

**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.

Date 8/18/92

H.H. Rice H.H. Rice  
Signature

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

Form 3160-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
Kerr-McGee Corporation

3. Address and Telephone No.  
405/270-6023  
U.S. Onshore Region, P. O. Box 25861, Oklahoma City, OK 73125

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
860' FSL & 1980' FWL  
Sec. 30, T36N, R30E

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

5. Lease Designation and Serial No.  
14-20-0603-8823

6. If Indian, Allottee or Tribe Name  
Navajo

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
Navajo #15

9. API Well No.  
02-001-20041

10. Field and Pool, or Exploratory Area  
Dineh-Bi-Keyah

11. County or Parish, State  
Apache Co., AZ

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other <u>Mechanical Integrity</u> Test	<input type="checkbox"/> Dispose Water <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>

13. 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.)

The long term shut in for the subject well expired December 31, 1991. Kerr-McGee would like to extend the shut in for one additional year to December 31, 1992.

The casing integrity will be tested to allow the well to remain in a shut in status. Kerr-McGee requests that the test be deferred until late spring or early summer due to the current adverse weather conditions. The test will be conducted prior to July 1, 1992.

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

Signed D. Bunas Title Analyst II Date 2-28-92

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

P/W 417

GAS-OIL RATIO TEST REPORTS

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

Form 9-331  
(May 1963)

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN THIS CATEGORY\*  
(Other instructions on reverse side)

Form approved  
Budget Bureau No. 42-R1424

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 "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	5. LEASE DESIGNATION AND SERIAL NO. 14-20-0603-8823
2. NAME OF OPERATOR KERR MCGEE CORPORATION	6. IF INDIAN, ALLOTTEE OR TRIBE NAME NAVAJO
3. ADDRESS OF OPERATOR P. O. BOX 250, AMARILLO, TEXAS 79105	7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 860' FSL and 1,980' FWL (SE SW)	8. FARM OR LEASE NAME NAVAJO
14. PERMIT NO. State No. 417	9. WELL NO. No. 15
15. ELEVATIONS (Show whether DF, RT, CR, etc.) 7,679' GR	10. FIELD AND POOL, OR WILDCAT DINEH-BI-KEYAH
	11. SEC. T. R. M., OR BLK. AND SURVEY OR AREA Sec. 30 T36N R30E G & SRM Survey
	12. COUNTY OR PARISH 13. STATE APACHE ARIZONA

16. 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"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input checked="" type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input checked="" type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input type="checkbox"/>	CLEAN OUT <input checked="" type="checkbox"/>		

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

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.)

Acidize well with 1,000 gal. Resi-sol and 100 gal. crude oil down tubing annulus. Pump spent acid out; pull rods, pump and tubing. Clean out to 3,241'. Fracture treat with 500 gals. scale preventative, 97,900 gals. crude, 8,500# 100 mesh sand, 81,000# 10-20 sand @ 120 BPM. Clean out to 3,241'. Run tubing, pump, and rods and place well on production.

Est. Date: November 28, 1977

RECEIVED

NOV 14 1977

O & G CONS. COMM.

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

SIGNED Larry D. McRae TITLE District-Manager-Engineering DATE 11-11-77

(This space for Federal or State office use)

APPROVED BY W.G. Allen TITLE \_\_\_\_\_ DATE 11-18-77

CONDITIONS OF APPROVAL, IF ANY:

ARIZONA SECONDARY RECOVERY PROGRAM PROPOSED

The Arizona Oil and Gas Conservation Commission will hold a hearing September 19 to consider an application by Kerr-McGee Corp for a secondary recovery program using injection of salt water into the Hermosa formation in Dineh Bi Keyah field, Apache County. The location for the project is in 29 through 33-36n-30e, 5 and 6-35n-30e, and 25 and 36-36n-29e. The field has produced more than 13.7 million bbls of oil, 1.8 billion cu ft of gas and 2.4 million bbls of water. The hearing begins at 10:00 am at the Oil and Gas Conservation Commission office, 8686 North Central Avenue, Suite 106, Phoenix.

POTENTIAL TEST AND REQUEST FOR ALLOWABLE -  WELLS

DESIGNATE TYPE OF COMPLETION:

New Well  Work-over  Deepen  Plug Back  Same Reservoir  Different Reservoir

Other Reason For Filing:

KERR-MCGEE CORPORATION

Operator

215 PETROLEUM CENTER BUILDING

Address

FARMINGTON, NEW MEXICO

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or Lessor's Name if Fee Lease 14-20-0603-8823	Well Name NAVAJO	County APACHE
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Footage Location

860' FSL & 1980' FWL

Sec. Twp. Rge.

Sec. 30, T36N, R30E

Date spudded 6-15-67	Date completed, ready to produce 9-19-67	Total depth 3246'	P.B.T.D. 3241'
Field and reservoir Dineh-bi-Keyah Field	Top of pay 3151'	Producing interval 3159'-3241'	

TEST DATA

Date of first production 7-14-67	Date of test 9-28-67	Length of test 24 hrs.	Producing method (flow pump, gas lift) Pumping.	Amount of load oil injected if any None.
-------------------------------------	-------------------------	---------------------------	----------------------------------------------------	---------------------------------------------

Number of barrels of oil produced from completion or recompletion date to test date 7783	If well is produced by pumping, give pump size, length of stroke and strokes per minute. 3"x1-1/2"x16'
---------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------

Tubing pressure 5	Casing pressure 0	Choke size None.
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*Actual production during test: 118	Oil (bbls) 118	Water (bbls) 20	Gas (MCF) 28
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\*Production must actually equal or exceed wells daily allowable or test must be for full 24 hours

Gas-oil ratio 238 ft/bbl.	Oil gravity 43.0 * A.P.I. corrected	Name of transporter of oil Kerr-McGee Pipeline Corp.
------------------------------	----------------------------------------	---------------------------------------------------------

Number of acres attributed to this well 160	Number of producing wells in this reservoir on this lease, including this well 11	Single, dual or triple completion? Single.	Daily allowable requested (bbls)
------------------------------------------------	--------------------------------------------------------------------------------------	-----------------------------------------------	----------------------------------

Plat showing acreage attached—plat should show leases, offset wells, distance from this well to the nearest well on the same lease completed in or drilling to the same reservoir, and the boundaries of drilling and producing, or proration, units attributed to this well and other wells on the same lease completed in or drilling to the same reservoir, the number of acres in each unit and the number of acres in the lease.

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Production Supt. 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.

10-3-67  
Date

*[Signature]*  
Signature

Witnessed by: KERR-MCGEE CORPORATION  
Organization  
*[Signature]*  
Signature  
10-3-67  
Date

Permit No. 417

Form No. 6

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Potential Test & Request for Allowable Wells  
File One Case No. 112-111121131  
RECEIVED  
OCT 4 1967  
STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION

Form 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE  
(Other instructions on reverse side)

Form approved  
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.  
**14-20-0603-8823**

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

7. UNIT AGREEMENT NAME  
**NAVAJO**

8. FARM OR LEASE NAME  
**NAVAJO**

9. WELL NO.  
**NO. 15**

10. FIELD AND POOL, OR WILDCAT  
**Manah-ki-Kayah**

11. SEC. T., R., M. OR BLK. AND SURVEY OR AREA  
**Sec. 30, T36N, R30E  
GREEN**

12. COUNTY OR PARISH  
**Apache**

13. STATE  
**Arizona**

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 "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL  GAS WELL  OTHER

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

3. ADDRESS OF OPERATOR  
**215 Petroleum Center Bldg. - Farmington, New Mexico**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface  
**860' FSL & 1980' FWL (SE SW)  
Sec. 30, T36N, R30E GREEN**

14. PERMIT NO.  
**State No. 417**

15. ELEVATIONS (Show whether DP, RT, GR, etc.)  
**7679' GR**

16. 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"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input checked="" type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <b>Total Depth</b>	<b>XXX</b>

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

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.)

7" casing had been set at 3159' and a 6-1/4" hole drilled to 3225' with cable tool. After pump testing the well for several weeks, the cable tool unit was moved back on the well and the remainder of the intrusive pay zone was drilled with a T.D. of 3246'. The base of the intrusive was at 3245' and the bottom feet was lime. A plug was set to isolate the lime with a PWD of 3241'. The well was then fraced on 8-31-67 with 83,100 gallons of 5% acid water and 45,000# 10 - 20 sand using 7000# rock salt as a diverting agent. Avg. Treating Pressure: 1550 psi. Avg. Inj. Rate: 117 BPM. Max. Treating Pressure: 1650 psi. See snab testing.



18. I hereby certify that the foregoing is true and correct.  
SIGNED [Signature] TITLE **Production Supt.** DATE **8, 27, 1967**

(This space for Federal or State office use)  
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

6 417

WELL SITE CHECK

By [Signature]  
Date 8.9.67

Contractor \_\_\_\_\_ Person(s) Contacted \_\_\_\_\_

Spud Date \_\_\_\_\_

Type Rig \_\_\_\_\_ Rotary Cable Tool Present Operations \_\_\_\_\_

Samples \_\_\_\_\_

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

Water Zones \_\_\_\_\_ Size Hole \_\_\_\_\_

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

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

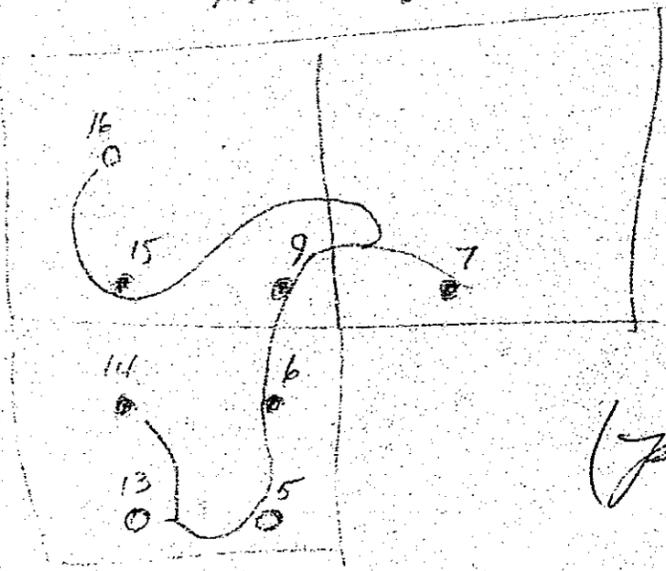
Cores, Logs, DST \_\_\_\_\_ No. Bit \_\_\_\_\_ Drilling Note \_\_\_\_\_

\_\_\_\_\_ Formation \_\_\_\_\_

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

REMARKS, PHOTO, MAP

Roads R



#15 being produced.

(pump testing)

417

WELL NAME

San Mateo No 15

Permit No. 417  
Confidential:  Yes  No



July 27, 1967

Mr. John Bannister  
State of Arizona  
Oil & Gas Conservation Commission  
Room 202 - 1624 W. Adams  
Phoenix, Arizona 85007

Mr. John P. Anderson  
United States Geological Survey  
Oil & Gas Division  
P. O. Drawer 1857  
Roswell, New Mexico 88201

Mr. Henry F. Pohlmann  
Minerals Supervisor  
The Navajo Tribe  
412 Petroleum Plaza Building  
3535 E. 30th Street  
Farmington, New Mexico 87401

Mr. P. T. McGrath  
United States Geological Survey  
Oil & Gas Division  
P. O. Box 959  
Farmington, New Mexico

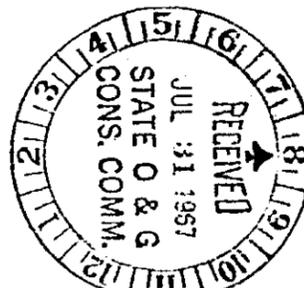
IGNEOUS SILL RESERVOIR  
DINEH BI KEYAH FIELD

Please find enclosed additional pressure information which we have acquired during the initial productive life of the subject reservoir.

Attachment No. 1 contains all of the shut-in pressure data which we have on wells which are presently producing. This data includes both original and subsequent shut-in pressures taken after each well's completion. Subsurface pressure bombs have been run on six of the nine wells which are presently producing. A data sheet and pressure plot was made for each bomb run by the technician in charge of the survey. This correspondence on four of the six wells (Nos. 2, 4, 7, 9, 14 and 15) on which this survey was conducted is also attached. The data sheets have not been received from the field on Nos. 4 and 15; however, the pressures recorded in these wells have been presented.

Attachment No. 2 contains shut-in pressure buildup data on five producing wells (Nos. 1, 2, 3X, 7 and 9). Please note the rapid pressure buildup characteristics of each well. In an effort to gain as much factual data and knowledge from this reservoir as possible; we are considering gathering additional pressure data.

Utilizing production history and pressure data the indicated producing mechanism at this time is probably solution gas drive.

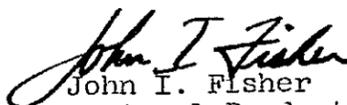


9 #417 4/17

July 27, 1957  
Page -2-

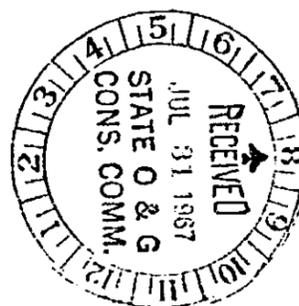
We hope this data will be beneficial to your consideration of  
this reservoir.

KERR-McGEE CORPORATION

  
John I. Fisher  
Regional Production Manager

JIF/bes  
attachments

cc: C. D. Williams



417  
10

Navajo No. 7 - Perfs. 3072-3112 (+4436 - +4396); Sensor: 2624 (+4884)

Original (Sub-surface Bomb):  
4-18-67 612 psig @ 3092 (+4416 - cent. of perfs.)  
583 psig @ +4500 datum

Additional:

Date	SI Pressure (Psig)		
	Sensor	Perforations	+4500 Datum
7-10-67	316	480	451

Navajo No. 9 - Perfs. 3420-60 (+4474 - +4434); Sensor: 2947 (+4947)

Original (Sub-surface Bomb):  
5-4-67 599 psig @ 3430 - bomb depth  
602 psig @ 3440 (+4454 - cent. of perfs.)  
586 psig @ +4500 datum

Additional:

Date	SI Pressure (Psig)		
	Sensor	Perforations	+4500 Datum
7-9-67	272	428	412

Navajo No. 14 - Open hole 3829-3920 (+4739 - +4648); No Sensor

Original (Sub-surface Bomb):  
7-8-67 477 psig @ 3875 (+4680 - mid-way through O.H.)  
540 psig @ +4500 datum

Navajo No. 15 - Open Hole 3159-3225 (+4538 - +4472); Beam Pump - No Sensor

Original (Sub-surface Bomb):  
7-14-67 462 psig @ 3191 (+4493 - mid-way through O.H.)  
460 @ +4500 datum

417  
17



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

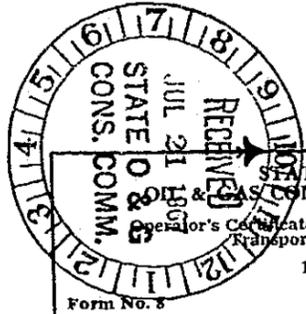
Federal, State or Indian Lease Number, or lessor's name if fee lease <b>14-20-0603-8823</b>	Field <b>Dineh-bi-Keyah</b>	Reservoir <b>Lower Hermosa</b>
Survey or Sec-Twp-Rge <b>Sec. 29-32-T36N-R30E</b>	County <b>Apache</b>	State <b>Arizona</b>
Operator <b>Kerr-McGee Corporation</b>		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street <b>215 Petroleum Center Bldg.</b>	City <b>Farmington</b>	State <b>New Mexico 87401</b>
Above named operator authorizes (name of transporter) <b>Kerr-McGee Pipeline Corporation Attention: Mr. A. R. Gockel</b>		
Transporter's street address <b>Kerr-McGee Building</b>	City <b>Oklahoma City</b>	State <b>Oklahoma 73102</b>
Field address <b>P. O. Box 989 - Farmington, New Mexico 87401</b>		
Oil, condensate, gas well gas, casinghead gas		
To transport <b>100</b> % of the <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 Gatherer &amp; Transporter Effective: 7/19/67</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 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 7/19/67 Signature P. D. [Signature]

Date approved: 7-21-67  
STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
By: John Gannister  
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

417

Form 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

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 "APPLICATION FOR PERMIT-" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO. <b>14-20-0603-8823</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>NO. 15</b>	
10. FIELD AND POOL, OR WILDCAT <b>Dineh-bi-Keyah</b>	
11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA <b>Sec. 30, T36N, R30E, G&amp;SRM</b>	
12. COUNTY OR PARISH	13. STATE
<b>Apache</b>	<b>Arizona</b>
14. PERMIT NO. <b>State No. 417</b>	15. ELEVATIONS (Show whether DF, HT, GR, etc.) <b>7679' GR</b>

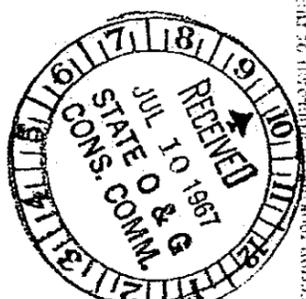
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

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"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input checked="" type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <b>Total Depth</b> <input type="checkbox"/>	

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

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.)

Drill 6-1/4" hole to 3225' with cable tool unit. 7" casing had been set at 3159'. This leaves an open hole completion in the pay zone from 3159'-3225'. Frac down casing with 60,000 gallons crude oil, 30,000# 10-20-sand, 3000# Adomite Mark II. Max. Press: 1800 psi. Avg. Treating Press: 1700 psi. Avg. Injection rate: 105 bbls/min.



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

SIGNED [Signature] TITLE Production Supt. DATE 7-7-67

(This space for Federal or State office use)

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

417

\*See Instructions on Reverse Side

Form 9-331  
(May 1963)

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.  
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.  
NO. 15

10. FIELD AND POOL, OR WILDCAT  
Dineh-bi-keyah

11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 30-T36N-R30E

12. COUNTY OR PARISH 18. STATE  
Apache Arizona

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 "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Kerr-McGee Corporation

3. ADDRESS OF OPERATOR  
215 Petroleum Center Bldg. - Farmington, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface  
860' FSL & 1980' FWL (SE SW)  
Sec. 30, T36N, R30E Apache Co., Arizona

14. PERMIT NO. State No. 417 15. ELEVATIONS (Show whether DP, RT, CR, etc.)  
7679' GR

16. 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"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input checked="" type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

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

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.)

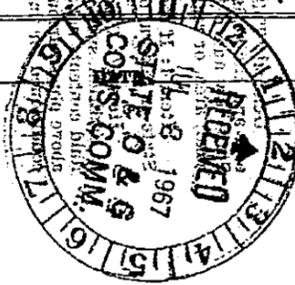
Drilled 8-3/4" hole to 3159'. Set 7" OD, 20#, J-55, 180 casing at 3159' RKB. Cemented with 100 sacks 50-50 Pozmix followed by 50 sacks neat cement. WOC 48 hours. Test casing with 1400 psi for 30 minutes. Held OK. Rig up cable tool unit to drill to total depth.

18. I hereby certify that the foregoing is true and correct.  
SIGNED *[Signature]* TITLE Production Supt.

(This space for Federal or State office use)  
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

#417

\*See Instructions on Reverse Side



6-28-67

Welcon from Mr. Bannister in Farmington, N.M.

Re: Kerr-McGee #4 Navajo

Spudded 6-27-67. Drilling at 272'.

Kerr-McGee #5 Navajo

Spudded 5-17-67. Swabbing today.  
T.D. 4620;  
Ran pipe 6-8-67.  
Tops: Coconino 1484  
Hermosa limestone 3290  
Intrusive 3772

Kerr-McGee #6 Navajo

Spudded 5-27-67. Elevation 7697. TD 3835.  
Completion rig on location at present time.  
Tops: Coconino 1360  
Hermosa limestone 3185  
Intrusive 3650

Kerr-McGee #4 Navajo

Spudded 6-10-67. TD 3920.  
Slumberger logged 6-27-67.  
Tops: Coconino 1548  
Hermosa limestone 3358  
Intrusive 3816

Kerr-McGee #15 Navajo

Spudded 6-16-67  
TD 3159. Moving in cable tool.  
PBTD 3094. Tops: Coconino 795  
Hermosa Limestone 2790  
Intrusive 3155

467

21

Form 9-331  
(May 1963)

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE  
(Other instructions on reverse side)

Form approved  
Budget Bureau No. 42-R1424

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 "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Kerr-McGee Corporation

3. ADDRESS OF OPERATOR  
215 Petroleum Center Bldg. - Farmington, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface  
860' FSL & 1980' FWL (SE SW) Sec. 30, T36N, R30E  
G&SRM Apache County, Arizona

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

State No. 417

7679' GR

5. LEASE DESIGNATION AND SERIAL NO.

14-20-0603-8823

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

NAVAJO

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

Dish #1-Kerr

11. SURVEY OF AREA

Sec. 30, T36N, R30E

12. COUNTY OR PARISH

Apache Arizona

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

SUBSEQUENT REPORT OF:

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

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

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.)

Spud at 4:00 pm 6-15-67. Drilled 15" hole 271' and set 9 5/8" O.D. 32.30# H-40 BRD ST&C casing at 262' RKB. Cemented with 310 sacks common cement with 2% CaCl and 1/4# floccle/sx. Using the pump and plug method. Plug down at 3:45 pm 6-16-67. Released pressure. Floats held OK. WOC 12 hrs. Test casing and BOF to 1100 psi for 30 minutes. Held OK. Drilling 8-3/4" hole below surface casing.

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

SIGNED

TITLE Production Supt.

(This space for Federal or State office use)

APPROVED BY

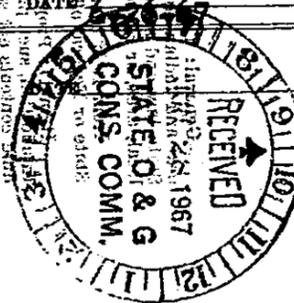
TITLE

CONDITIONS OF APPROVAL, IF ANY:

2-USGS  
1-Ariz.  
1-Tribe  
1-JIF  
WRF-1  
1-RF

417

\*See Instructions on Reverse Side



## APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

APPLICATION TO DRILL  RE-ENTER OLD WELL

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

215 PETROLEUM CENTER BLDG. FARMINGTON, NEW MEXICO  
Address City State

UNKNOWN  
Drilling Contractor

Address

### DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or if fee lease, name of lessor 14-20-0603-8823 NAVAJO		Well number 15	Elevation (ground) 7679'
Nearest distance from proposed location to property or lease line: 1980' feet		Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: 2759 feet	
Number of acres in lease: 2533		Number of wells on lease, including this well, completed in or drilling to this reservoir: 8	
If lease, purchased with one or more wells drilled, from whom purchased: NONE.		Name Address	
Well location (give footage from section lines) 860' FSL & 1980' FWL	Section—township—range or block and survey Sec. 30-T36N-R30E G&SRM	Dedication (Comply with Rule 105) SW/4 Sec. 30.	
Field and reservoir (if wildcat, so state) DINEH-BI-KEYAH	County LOWER HERMOSA	APACHE	
Distance, in miles, and direction from nearest town or post office 10 miles SW of Red Rock, Arizona.			
Proposed depth: 3650'	Rotary or cable tools Rotary	Approx. date work will start 6-15-67	
Bond Status Blanket Bond	Organization Report On file YES Or attached	Filing Fee of \$25.00 Attached YES	

Remarks:  
New Well.  
Covered by Commission Order No. 21.

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

Signature

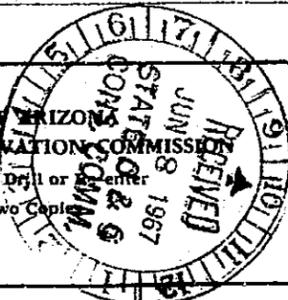
Date

Permit Number: 417  
Approval Date: 6-8-67  
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.

Form No. 3

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Application to Drill or Re-enter  
File Two Copies



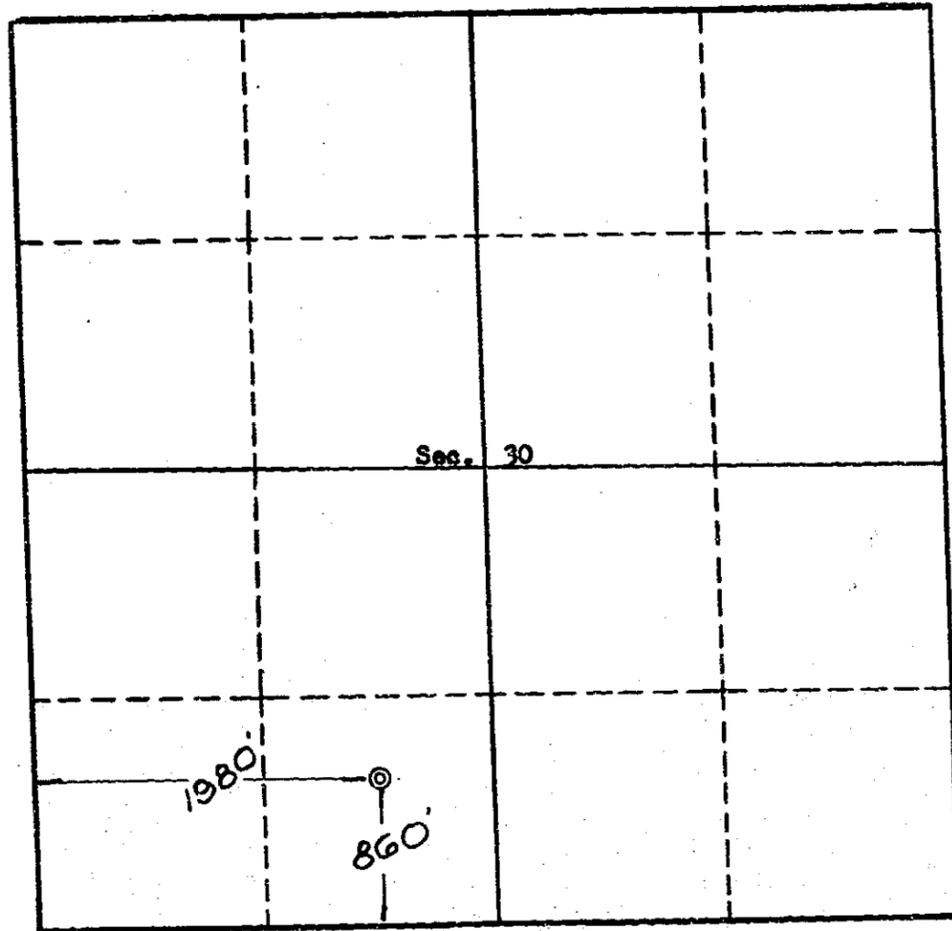
1. Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
2. A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
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 XX 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
SEE ATTACHED SURVEY PLAT.	
<p><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>Name _____</p> <p>Position _____</p> <p>Company _____</p> <p>Date _____</p> <p>I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.</p> <p>Date Surveyed _____</p> <p>Registered Professional Engineer and/or Land Surveyor _____</p> <p>Certificate No. _____</p>	

**PROPOSED CASING PROGRAM**

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
9-5/8" OD	32.30	H-40	0	250	0 - 250	Sufficient to Circ.
7" OD	20/23	J-55	0	3650	Sufficient to cover all potential productive zones.	

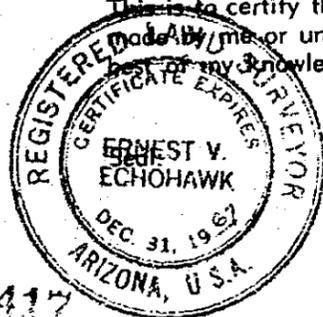
Company Kerr-McGee Corporation  
 Well Name & No. No. 15 Navajo  
 Location 860 feet from the South line and 1980 feet from the West line.  
 Sec. 30, T. 36 N., R. 30 E., G. & S. R. M., County Apache, Arizona  
 Ground Elevation 7679 ungraded



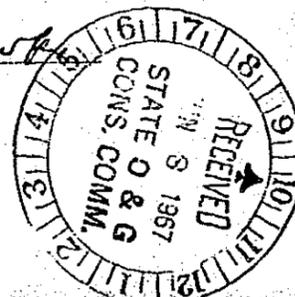
Scale, 1 inch = 1,000 feet

Surveyed May 16, 1967

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



417



# 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 #15 Navajo  
(WELL NAME)

located 860' FSL - 1980' FWL

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

The SW/4 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 8th day of June, 19 67.

OIL AND GAS CONSERVATION COMMISSION

By John Bannister  
EXECUTIVE SECRETARY

PRIOR TO BEING ALLOWED TO PRODUCE THIS WELL YOU MUST BE IN FULL COMPLIANCE WITH RULE 100, SECTION 4, ARTICLES 18 AND 19, WITH RESPECT TO THE PRODUCT TO BE PRODUCED.

PERMIT N<sup>o</sup> 417

RECEIPT NO. 9508

State of Arizona  
Oil & Gas Conservation Commission  
Permit to Drill

FORM NO. 27

**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

417

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 |



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
PHONE:	5 0 5 6 2 3 - 7 1 8 4
	ZIP CODE: 8 8 2 0 1 -

COMPLETE IF APPLICABLE:	
<input type="checkbox"/>	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 # 15 (417)	AZ OIL & GAS CONSERVATION COMMISSION
Dineh Bi Keyah Field - Apache County, Arizona	JUN 8 1994
Lease #: 14-20-0603-8823	API #: -02001600040051
	02-001-20041
COMMENTS:	This property was sold to Mountain States Petroleum Corp. and they became Operator effective May 1, 1994.

SIGNATURE:	<i>Judy Buckhart</i>
DATE:	5/13/94

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

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
PHONE:	5 0 5 6 2 3 - 7 1 8 4
	ZIP CODE: 8 8 2 0 1 -

COMPLETE IF APPLICABLE:	
<input type="checkbox"/> 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 # 15 (417)	<b>AZ OIL &amp; GAS CONSERVATION COMMISSION</b>
Dineh Bi Keyah Field - Apache County, Arizona	JUN 8 1994
Lease #: 14-20-0603-8823	API #: -02001600040051 02-001-20041
COMMENTS: This property was sold to Mountain States Petroleum Corp. and they became Operator effective May 1, 1994.	

SIGNATURE:	<i>Judy Burkhardt</i>
DATE:	5/13/94

MAIL TO:
MINERALS MANAGEMENT SERVICE
ROYALTY MANAGEMENT PROGRAM
P.O. BOX 25165 MS 2122
DENVER, CO 80225

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 Burkhart*

Judy Burkhart,  
Secretary

Attachment

CONSERVATION COMMISSION

MAY 31 1994



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

March 5, 1992

Mr. G. Bunas, Analyst II  
Kerr-McGee Corporation  
US Onshore Region  
P. O. Box 25861  
Oklahoma City, Oklahoma 73125

Re: Mechanical Integrity tests at Dineh-bi-keyah field, Arizona  
Navajo 7, 9, 15, 16, 17, 24, 26, "B" 1 & 2, "C" 2, and "88" 1 & 3

Dear Mr. Bunas:

I acknowledge receipt of your sundry notices on the referenced wells. Let me take this opportunity to inform you that the Arizona Oil and Gas Conservation Commission has merged with the Arizona Geological Survey. Please note our new address and phone number in your files for future correspondence.

This office has no problem with your request to defer mechanical integrity testing on the referenced wells until late spring or early summer due to currently adverse weather conditions.

However, when you do schedule the actual dates, I hereby request at least 2 to 3 days advance notice to arrange for a representative from this office to travel to Dineh-bi-keyah to observe these tests.

Sincerely,

A handwritten signature in cursive script that reads "Steven L. Rauzi".

Steven L. Rauzi  
Oil and Gas Program Administrator

Operator KERR MC GEE ~~OIL~~ <sup>Corporation</sup> ~~INDUSTRIES INC.~~  
 Bond Company Insurance Co. of N. America Amount 25,000  
 Bond No. M 41 95 25 (KN528) 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
<u>303</u>	403	
<u>90</u>	404	
<u>91</u>	405	
<u>349</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

→ SEE this file

Superseded by  
 American Casualty Co. Bond  
 \$25,000  
 #5471020-52  
 10-19-73

WPA

 **KERR-MCGEE CORPORATION**  
626 AMARILLO PETROLEUM BUILDING  
P. O. BOX 250 • AMARILLO, TEXAS 79105

November 5, 1973

PHONE  
806 376-7256

Oil and Gas Conservation Commission  
State of Arizona  
4515 North Seventh Avenue  
Phoenix, Arizona 85013

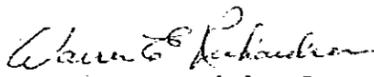
Attention: Mr. W. E. Allen  
Director

Dear Mr. Allen:

In regards to your letter of September 18, 1973, requesting reserve information for the Dineh-bi-Keyah Field and Pinta Dome Field, please be advised that I have referred your letter to our Oklahoma City office and have determined that due to company policy, we are unable to furnish the information at this time.

Yours truly,

KERR-MCGEE CORPORATION

  
Warren E. Richardson  
District Manager  
Southwestern District

WER/mm

RECEIVED

NOV 6 1973

O & G CON. COMM.

417



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

September 18, 1973

Mr. Warren E. Richardson  
Kerr-McGee Corporation  
P. O. Box 250  
Amarillo, Texas 79105

Dear Mr. Richardson:

Will you please supply this Commission with any information that you might have regarding the recoverable reserves in the Dineh-Bi-Keyah Field and also in the Pinta Dome Field?

This information will be considered confidential if you so desire.

Thank you for your cooperation.

Very truly yours,

A handwritten signature in cursive script, appearing to read "W. E. Allen".

W. E. Allen, Director  
Enforcement Section

WEA/rlb



**KERR-MCGEE CORPORATION**

KERR-MCGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

215 Petroleum Center Building

Farmington, New Mexico

October 3, 1967

State of Arizona  
O&G Conservation Commission  
Room 202 - 1624 W. Adams  
Phoenix, Arizona 85007

Attn: Mr. John Bannister

RE: Arizona O&GCC Forms 4 & 6  
Navajo Well No. 15  
Dineh-bi-Keyah Field  
Apache County, Arizona

Gentlemen:

Enclosed please find copies of Arizona Commission Forms No. 4 and No. 6 for our Navajo Well No. 15 which is located in Section 30, T36N, R30E, Dineh-bi-Keyah Field, in Apache County, Arizona.

Also enclosed please find your copy of the Formation Density Log for the above mentioned well.

Very truly yours,  
KERR-MCGEE CORPORATION

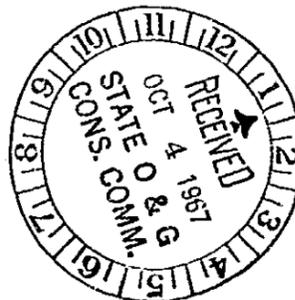
C. D. Williams  
Production Supt.

CDW/hs

Enclosures

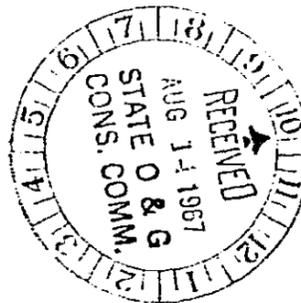
cc: J.I.Fisher  
R.W. King  
Nav.Tribe(1 log)  
WRF  
RF

4  
A17



copy ✓

August 11, 1967



Mrs. Anna Smith, Manager  
Four Corners Sample Cut Association  
P. O. Box 899  
Farmington, New Mexico

Re: Kerr-McGee Well Samples  
Dineh-bi-Keyah Field  
Apache County, Arizona

Dear Mrs. Smith:

Kerr-McGee Corporation is releasing to the Four Corners Sample Cut Association the well cuttings on the following Apache County, Arizona, wells:

- ✓ Kerr-McGee #6 Navajo, 1950 FNL & 990 FEL, Sec.31-36N-30E, Elev. 8332 GL, 8345 KB. Spudded 5-27-67, Comp. 7-8-67, T.D. 3835'.
- ✓ Kerr-McGee #8 Navajo, 440 FSL & 690 FEL, Sec.29-36N-30E, Elev. 7164 GL, 7177 KB. Spudded 7-12-67, Comp. 7-29-67, T.D. 3660'.
- ✓ Kerr-McGee #14 Navajo, 2020 FNL & 2060 FWL, Sec.31-36N-30E, Elev. 8555 GL, 8568 KB. Spudded 6-10-67, Comp. 7-9-67, T.D. 3920'.
- ✓ Kerr-McGee #15 Navajo, 860 FSL & 1980 FWL, Sec.30-36N-30E, Elev. 7684 GL, 7697 KB. Spudded 6-15-67, T.D. 3229'.

Yours very truly,

KERR-MCGEE CORPORATION

*R. W. King*

R. W. King, Division Manager

RWK:sg

cc: John Bannister  
Arizona O&G Conservation Commission  
Phoenix, Arizona

Henry F. Pohlmann  
Navajo Tribe Minerals Dept.  
Farmington, New Mexico

COPY

417

 **KERR-MCGEE CORPORATION**  
 KERR-MCGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102  
 215 Petroleum Center Building  
 Farmington, New Mexico 87401

August 11, 1967

State of Arizona Oil & Gas Conservation Commission  
 Room 202 - 1624 West Adams  
 Phoenix, Arizona 85007

Attention: Mr. John Bannister  
 Executive Secretary

Re: Confidential Well Information  
 Dineh-bi-Keyah Field  
 Apache County, Arizona

Dear John:

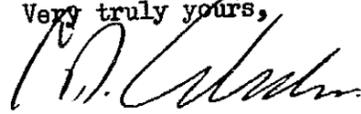
Please be advised that Kerr-McGee has removed from confidential well status the following wells:

Navajo No. 1	-	SESW, Section 32, T36N, R30E
Navajo No. 2	-	SESW, Section 32, T36N, R30E
Navajo No. 3X	-	SESE, Section 32, T36N, R30E
Navajo No. 4	-	SENE, Section 32, T36N, R30E
Navajo No. 6	-	SENE, Section 31, T36N, R30E
Navajo No. 7	-	SESW, Section 29, T36N, R30E
Navajo No. 8	-	SESE, Section 29, T36N, R30E
Navajo No. 9	-	SESE, Section 30, T36N, R30E
Navajo No. 14	-	SESW, Section 31, T36N, R30E
Navajo No. 15	-	SESW, Section 30, T36N, R30E
Navajo No. 16	-	SESW, Section 30, T36N, R30E
Navajo No. C-2	-	SESW, Section 33, T36N, R30E

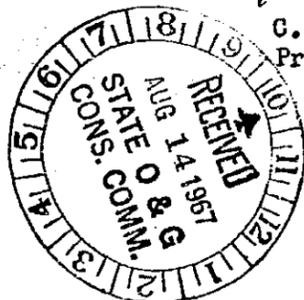
Kerr-McGee desires to hold in the confidential status the information on the following wells:

Navajo No. 5	-	SESE, Section 31, T36N, R30E
Navajo No. 13	-	SESW, Section 31, T36N, R30E
Navajo No. B-1	-	SESW, Section 5, T35N, R30E
Navajo No. B-2	-	SENE, Section 5, T35N, R30E
Navajo No. E-1	-	SESE, Section 20, T36N, R30E

Very truly yours,



C. D. Williams  
 Production Superintendent



CDW:la

CC: USGS - Farmington  
 Navajo Tribe - Farmington

417

AIR MAIL



**KERR-MCGEE CORPORATION**

KERR-MCGEE BUILDING - OKLAHOMA CITY, OKLAHOMA 73102  
215 Petroleum Center Building  
Farmington, New Mexico  
July 20, 1967

State of Arizona  
O&G Conservation Commission  
Room 202 - 1624 W. Adams  
Phoenix, Arizona 85007

Attn: Mr. John Bannister  
Exec. Secretary

RE: Navajo Lease  
Dineh-bi-Keyah Field  
Apache Co., Arizona

Gentlemen:

Enclosed please find Form 8, Operator's Certificate of Compliance and Authorization to Transport Oil or Gas From Lease. This request is for approval of change of Transporter of the oil produced from the Lower Hermosa oil wells on the Kerr-McGee Corp. Navajo Lease.

Present producing wells on the lease are Navajo Well Nos: 1, 2, 3X, 4, 6, 7, 9, 14, and 15. If additional information is needed, please advise.

Very truly yours,  
KERR-MCGEE CORPORATION

*C. D. Williams*

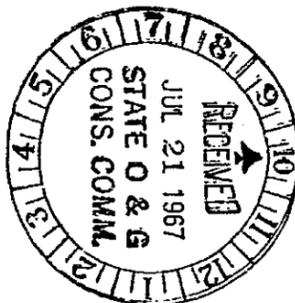
C. D. Williams  
Production Supt.

CDW/hs

Enclosures

cc: U.S.G.S.  
Nav. Tribe  
K-McGee Pipeline Corp.  
J.I. Fisher  
Nav. Lse. File  
RF

377 390  
379 389  
386 396  
389 416  
417



15

June 21, 1967

Kerr-McGee Corporation  
215 Petroleum Center Building  
Farmington, New Mexico 87401

Attention: Mr. C.D. Williams, Production Superintendent

Re: Kerr-McGee #15 Navajo  
SE SW 30-36N-30E, Apache County, Arizona  
Permit 417

Gentlemen:

It is our understanding that captioned well has been spudded and is drilling below 2,000 feet.

As we have indicated to you, this Commission should be kept currently informed as to the operations on any well drilling within the State of Arizona. For your convenience in reporting wells drilling on the Navajo Reservation, we will accept copies of your reports to U.S. Geological Survey.

You are requested to file with this Commission, at your earliest convenience, the reports to bring this well to its current status. Should you have any questions, or if we may be of assistance to you, please let us know.

Very truly yours,

John Bannister  
Executive Secretary  
mr  
enc



**KERR-MCGEE CORPORATION**

KERR-MCGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

215 Petroleum Center Building

Farmington, New Mexico

June 13, 1967

State of Arizona  
Oil & Gas Conservation Comm.  
Room 202 - 1624 W. Adams  
Phoenix, Arizona 85007

Attn: Mr. John Bannister,  
Exec. Secretary

RE: Navajo Well #14  
Navajo Well #15  
Dineh-bi-Keyah Field  
Apache Co., Arizona

Gentlemen:

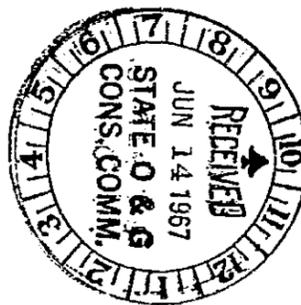
Reference is made to your letter of June 8, 1967 concerning the permits to drill the captioned wells. The drilling contractor for these wells will be Pico Drilling Company, 3800 Sunset Avenue, Farmington, New Mexico 87401. By an oversight I failed to request that information on these two wells be held confidential. It would be appreciated if your office would continue to hold the information on the wells, including these two, in the Dineh-bi-Keyah field confidential.

Very truly yours,  
KERR-MCGEE CORPORATION

C. D. Williams  
Prod. Supt.

CDW/hs

416  
417





**KERR-MCGEE CORPORATION**

KERR-MCGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

215 Petroleum Center Building  
Farmington, New Mexico  
June 6, 1967

State of Arizona  
Oil & Gas Conservation Comm.  
Room 202 - 1624 W. Adams  
Phoenix, Arizona

Attn: Mr. John Bannister,  
Exec. Secretary

RE: Application For Permit To Drill  
Navajo Well No. 14  
Navajo Well No. 15  
Dineh-bi-Keyah Field  
Apache County, Arizona

Gentlemen:

Enclosed please find two copies each of Arizona O&GCC Form No. 3 for the Kerr-McGee Navajo No. 14 located in SE NW Sec. 31, T36N, R30E, and the Kerr-McGee Navajo No. 15 located in SE SW Sec. 30, T36N, R30E, Apache County, Arizona. Also enclosed are two copies each of the Surveyor's plat for the location of the two wells. A draft for \$50.00 to cover the filing fees is included.

Your approval of this application is requested.

Sincerely yours,  
KERR-MCGEE CORPORATION

C. D. Williams  
Prod. Supt.

CDW/hs

Enclosures

