

KERR-McGEE ~~26~~ *720* 26 720
NW SW 31-36N-30E APACHE CO.

KERR-MCGEE ~~26~~ *720* 26 720
NW SW 31-36N-30E APACHE CO.

RECEIVED

DEC 17 1981

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 O & G CONS. COMM.

DESCRIPTION OF WELL AND LEASE

Operator Kerr-McGee Corporation		Address P.O. Box 250, Amarillo, Texas 79189	
Federal, State or Indian Lease Number or name of lessor if fee lease 14-20-0603-8823		Well Number 26	Field & Reservoir Dineh-Bi-Keyah, Hermosa Sill
Location 2100' FSL & 800' FWL, NW/4 SW/4		County Apache, Arizona	
Sec. TWP-Range or Block & Survey Sec. 31, T36N, R30E			
Date spudded 9/10/81	Date total depth reached 10/10/81	Date completed, ready to produce 11/12/81	Elevation (DF, RKB, RT or Gr.) 8888 RKB feet
Elevation of casing hd. flange 8877 feet			
Total depth 4469' RKB	P.B.T.D. 4401' RKB	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 4230' - 4342' Hermosa Sill		Rotary tools used (interval) All	Cable tools used (interval) None
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) CBL, CFDL			Date filed December 9, 1981

CASING RECORD

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Surface	12 1/4"	8 5/8"	24#/ft	540'	350 sx Cl. "H"	0
Production	7 7/8"	5 1/2"	15.5#/ft	4468'	250 sx Cl. "H"	0

TUBING RECORD

None

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
2 7/8 in.	4371 ft.	SN @ 4342 ft.					

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval
2 SPF	22 gr. .50	4230' - 4342' RKB	gelled crude & 60,000#	4230' - 4342'
	SSB II		10/20 sand, avg rate 5l BPM, avg press 340	

INITIAL PRODUCTION

PSI.

Date of first production 11/13/81		Producing method (indicate if flowing, gas lift or pumping--if pumping, show size & type of pump:) Pumping 2 1/2" x 2" x 16' RWAC					
Date of test 11/18/81	Hrs. tested 24	Choke size None	Oil prod. during test 107 bbls.	Gas prod. during test 31 MCF	Water prod. during test 91 bbls.	Oil gravity 41.2° API (Corr)	
Tubing pressure 0	Casing pressure 0	Cal'd rate of Production per 24 hrs.	Oil 107 bbls.	Gas 31 MCF	Water 91 bbls.	Gas-oil ratio 290/1	

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

Date December 9, 1981 Signature Brenda Hall Brenda Hall

Permit No. 720	STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Well Completion or Recompletion Report and Well Log Form No. 4 File One Copy 2
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DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
Cocanino	1870'	3630'	
Hermosa	3630'	4090'	
Black Shale	4090'	4225'	
Sill	4225'	4345'	Igneous Intrusive Sill
Base of Sill	4345'	4400'	
Mississippian	4800'	4469'	

* 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 14-20-0603-8823	Field Dineh-BI-Keyah	Reservoir Hermosa
Survey or Sec-Twp-Rge Sec 29, 30, 31, 32 T-36N-R30E	County Apache	State AZ
Operator Mountain States Petroleum Corp.		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street P O Bx 1936	City Roswell,	State New Mexico 88202
Above named operator authorizes (name of transporter)		
Giant Industries Transporter's street address P O Bx 12999	City Scottsdale,	State AZ
Field address P O Bx 256 (Bloomfield Hwy) Farmington, N M 87499		
Oil, condensate, gas well gas, casinghead gas		
To transport	100% of the	oil 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.		
Change of Oper.		

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

 Signature Ruby Wickersham

Date approved: AUG 16 1995
 STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 By: Steven L. Rainey
 Permit No. 720

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 <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	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 and Telephone No. U.S. Onshore Region, P. O. Box 25861, Oklahoma City, OK 73125	7. If Unit or CA, Agreement Designation P/W 720
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2100' FSL & 800' FWL Sec. 31, T36N, R30E	8. Well Name and No. Navajo #26
	9. API Well No. 02-001-20250
	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

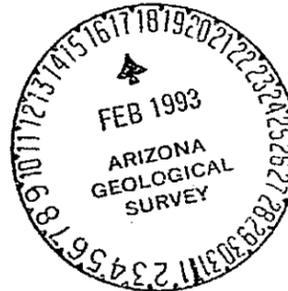
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> 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 checked="" type="checkbox"/> Other <u>Shut-in</u>	<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: [Signature] 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 14-20-0603-8823 Navajo	Field Dineh-Bi-Keyah	Reservoir Hermosa
Survey or Sec-Twp-Rge Several - T 36 N, R 30 E	County Apache	State Arizona
Operator Kerr-McGee Corporation		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street P. O. Box 250	City Amarillo	State Texas, 79189
Above named operator authorizes (name of transporter) Gary-Williams Energy		
Transporter's street address 370 17th St., Suite 5300	City Denver	State Colorado, 80202
Field address P. O. Box 159, Bloomfield, NM 87413		
Oil, condensate, gas well gas, casinghead gas		
To transport	100 % of the Oil	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 Signature H.H. Rice **H.H. Rice**

Date approved: 8-21-92
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By: Steven L. Raif

Permit No. _____

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

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

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

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

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)

2100' FSL & 800' FWL
Sec. 31, T36N, R30E

8. Well Name and No.

Navajo #26

9. API Well No.

02-001-20250

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 type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" 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 type="checkbox"/> Other Mechanical Integrity Test
	<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.)

See attached



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

Signed

(This space for Federal or State office use)

Title **Regulatory Specialist**

Date **7-15-92**

Approved by

Conditions of approval, if any:

Title

Date

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

NAVAJO 26
Dineh-Bi-Keyah Field

MECHANICAL INTEGRITY TEST

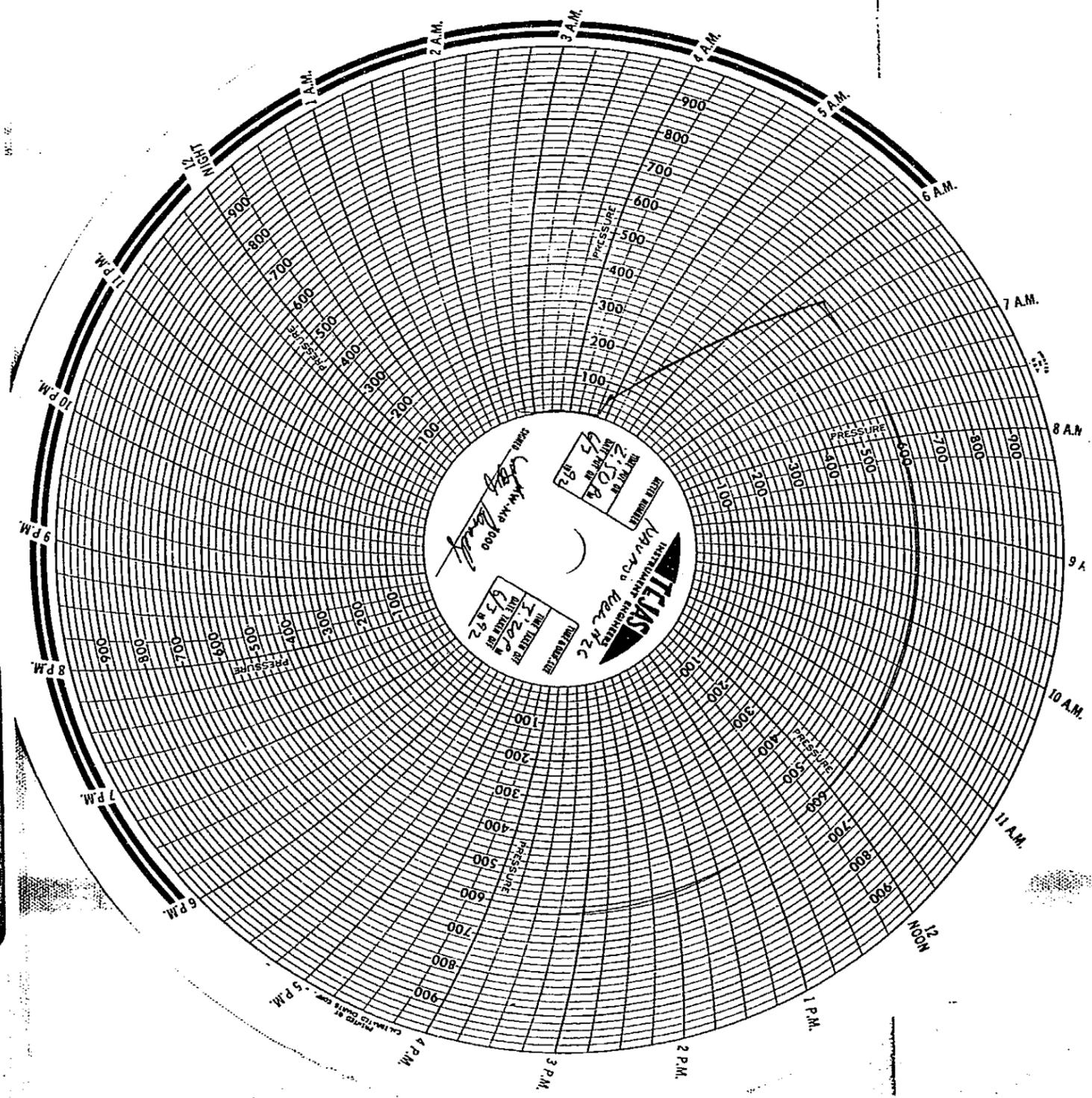
6/03/92 MI pulling unit to location w/P-7 Caterpillar dozer. RU on well. Bled down pressure off well. Opened well & unflanged WH. ND WH & NU BOP w/closing unit. MI tbg on float & PU 5-1/2" Baker Model C-1 fullbore tension retrievable pkr. TIH w/pkr, 133 jts 2-7/8" 6.5# 8rd EUE J-55 tbg. Set pkr @ 3180' RKB. Perfs @ 4230'-4342' RKB. TD @ 4400' RKB. MI 140 BFW treated w/Tretolite XC-370 Bactericide chemical. Run 2" steel line from rig pump to 2" WKM 2000# WP csg valve. Pumped & loaded 5-1/2" csg w/60 bbls treated wtr. Psi tstd csg to 600 psig & held. Back flushed fluid back to steel tank twice to release all gas bubbles in fluid. Release pressure to steel tank. Unset pkr & TOOH w/133 jts 2-7/8" tbg, 5-1/2" Baker Model C-1 tension pkr & LD all equipment to be released. RD & release rig to Farmington. Release all service companies & equipment.

NOTE: Pulling unit stuck for a full day trying to get to location day before WO due to muddy roads. MI equipment w/D-7 dozer to location due to steep upgrade to well.

Chart recording attached.

NOTE: Notify Mark Keely w/BLM; Arlene Luther w/Navajo Tribal EPA; Steve Rauzi w/Arizona Oil & Gas Commission. Above agencies were not present to witness pressure testing.

SUPERVISOR: Ray Benally



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

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 #26

9. API Well No.

02-001-20250

10. Field and Pool, or Exploratory Area

Dineh-Bi-Keyah

11. Country or Parish, State

Apache Co., AZ

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)
2100' FSL & 800' FWL
Sec. 31, 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>Mechanical Integrity Test</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 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 720

88-6

88-1

KERR-McGEE CORPORATION'S
NAVAJO LEASE WELL NO. 26
2100' FSL & 800' FWL (NW/4 SW/4)
SEC. 31, T-36-N, R-30-E
APACHE COUNTY, ARIZONA
DINEH-BI-KEYAH FIELD

1" = 1000'

RECEIVED

DEC 17 1981

O & G CONS. COMM.

25

25

30 29

36

31

KERR-McGEE NAVAJO LEASE
2533 TOTAL LEASE ACRES

31

32

24

20

25

19

88-3

14

6

40 acres

800'

2100'

1712'

26

17

27

5

13

36

31

31

32

1

6

6

5

138-3

B-IX

H

138-1

POTENTIAL TEST AND REQUEST FOR ALLOWABLE OIL WELLS

DESIGNATE TYPE OF COMPLETION:

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

RECEIVED

Other Reason For Filing:

DEC 17 1981

Operator
Kerr-McGee Corporation
Address
P.O. Box 250, Amarillo, Texas 79189
O & G CONS. COMM.
P.A.Y.

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 #26	County Apache
Footage Location 2100' FSL & 800' FWL, NW/4, SW/4		
Sec. Twp. Rge. Sec. 31, T36N, R30E		
Date spudded 9/10/81	Date completed, ready to produce 11/12/81	Total depth 4469' RKB
Field and reservoir Dineh-Bi-Keyah Hermosa Sill		P.B.T.D. 4401' RKB
Top of pay 4225'		Producing interval 4230' - 4342' RKB

TEST DATA

Date of first production 11/13/81	Date of test 11/18/81	Length of test 24 hrs.	Producing method (flow pump, gas lift) Pumping	Amount of load oil injected if any. 1125
Number of barrels of oil produced from completion or recompletion date to test date None - load only		If well is produced by pumping, give pump size, length of stroke and strokes per minute. 2 1/2" x 2" x 16', 63" SL, 13 spm		
Tubing pressure 0	Casing pressure 0	Choke size None		
*Actual production during test:	Oil (bbls) 107	Water (bbls) 91	Gas (MCF) 31	

*Production must actually equal or exceed wells daily allowable or test must be for full 24 hours

Gas-oil ratio 290/1	MCF/bbl.	Oil gravity 41.2	* A.P.I. corrected	Name of transporter of oil Kerr-McGee Corporation
Number of acres attributed to this well 40	Number of producing wells in this reservoir on this lease, including this well 23	Single, dual or triple completion? Single	Daily allowable requested (bbls) 107 BOPD	

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

December 9, 1981
Date

Brenda Hall
Signature
Brenda Hall

Witnessed by: _____ Organization

Signature
December 19, 1981
Date

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Potential Test & Request for Allowable—Oil Wells

File One Copy

Permit No. 720

Form No. 6

RECEIVED
DEC 18 1981

Form 9-331
Dec. 1973

O & G CONS. COMM. approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well gas well other

2. NAME OF OPERATOR
Kerr-McGee Corporation

3. ADDRESS OF OPERATOR
P.O. Box 250 Amarillo, Texas 79109

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2100' FSL & 800' FWL (NW/4 SW/4)
AT TOP PROD. INTERVAL: 2100' FSL & 800' FWL
AT TOTAL DEPTH: 2100' FSL & 800' FWL

5. LEASE
Navajo #14-20-0603-8823

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Navajo

9. WELL NO.
26

10. FIELD OR WILDCAT NAME
Dineh-bi-Keyah

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 31, T-36-N, R-30-E

12. COUNTY OR PARISH | 13. STATE
Apache | Arizona

14. API NO.
02-001-20250

15. ELEVATIONS (SHOW DF, KDB, AND WD)
8871' Ungraded Ground

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

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

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

11/11/81 Continue laying flowline & running electric lines.

11/12/81 Set pumping unit @ 13 SPM & 63" stroke. Put well on pump, 1117 BLOR.

11/13/81 - 11/17/81 Pump well to recover load.

11/18/81 Test well for allowable.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Kelley Lomberg TITLE Sr. Eng. Asst. DATE December 16, 1981
Kelley Eisenberg
 (This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

720

RECEIVED

DEC 18 1981

Form 9-331
Dec. 1973

Form Approved & G CONS. COMM.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well gas well other

2. NAME OF OPERATOR
Kerr-McGee Corporation

3. ADDRESS OF OPERATOR
P.O. Box 250 Amarillo, Texas 79109

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2100' FSL & 800' FWL (NW/4 SW/4)
AT TOP PROD. INTERVAL: 2100' FSL & 800' FWL
AT TOTAL DEPTH: 2100' FSL & 800' FWL

5. LEASE
Navajo #14-20-0603-8823

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Navajo

9. WELL NO.
26

10. FIELD OR WILDCAT NAME
Dineh-bi-Keyah

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 31, T-36-N, R-30-E

12. COUNTY OR PARISH | 13. STATE
Apache | Arizona

14. API NO.
02-001-20250

15. ELEVATIONS (SHOW DF, KDB, AND WD)
8871' Ungraded Ground

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

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

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

11/04/81 - 11/10/81 Continue digging ditch for flowline & running electric line. Laying flowline in ditch.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Kelley Eisenberg TITLE Sr. Eng. Asst. DATE December 16, 1981

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

720

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DEC 18 1981

Form 9-331
Dec. 1973

Form Approved O & G CONS. COMM.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well gas well other

2. NAME OF OPERATOR

Kerr-McGee Corporation

3. ADDRESS OF OPERATOR

P.O. Box 250 Amarillo, Texas 79109

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 2100' FSL & 800' FWL (NW/4 SW/4)
AT TOP PROD. INTERVAL: 2100' FSL & 800' FWL
AT TOTAL DEPTH: 2100' FSL & 800' FWL

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

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

5. LEASE

Navajo #14-20-0603-8823

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

Navajo

9. WELL NO.

26

10. FIELD OR WILDCAT NAME

Dineh-bi-Keyah

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 31, T-36-N, R-30-E

12. COUNTY OR PARISH

Apache

13. STATE

Arizona

14. API NO.

02-001-20250

15. ELEVATIONS (SHOW DF, KDB, AND WD)

8871' Ungraded Ground

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

10/28/81 - 11/03/81 Digging ditch for flow lines & running electric lines.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Kelley Eisenberg TITLE Sr. Eng. Asst. DATE December 16, 1981

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

720

Form 9-331
Dec. 1973

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well gas well other

2. NAME OF OPERATOR
Kerr-McGee Corporation

3. ADDRESS OF OPERATOR
P.O. Box 250 Amarillo, Texas 79109

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2100' FSL & 800' FWL (NW/4 SW/4)
AT TOP PROD. INTERVAL: 2100' FSL & 800' FWL
AT TOTAL DEPTH: 2100' FSL & 800' FWL

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

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

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.)*

10/22/81 TIH w/ hydrostatic bailer to clean out sd. Cont. construction work.
 10/23/81 RU Sd pump & cont. flowline construction.
 10/24/81 Ck. btm for fill & swab test. Rec 8 bbls of load.
 10/25/81 SI bldg up BHP.
 10/26/81 Pulling BHP equipment. PBD 4400'; BHP 80 psi; TIH w/ 142 jts 2 7/8" EUE, 8rd, J-55 tbg; SN @ 4342' RKB. Btm of tbg @ 4371' RKB; TIH w/ 2 1/2" x 2" x 16' RWAC pmp & rods.
 10/27/81 RD MO Farmington Well Service. Ck pmp action. Cont laying flowline.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Kelley Eisenberg TITLE Sr. Eng. Assist. DATE October 28, 1981 12/16/81

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

720

*See Instructions on Reverse Side

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O & G CONS. COM. Form Approved. Budget Bureau No. 42-R1424

5. LEASE
Navajo #14-20-0603-8823

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Navajo

9. WELL NO.
26

10. FIELD OR WILDCAT NAME
Dineh-bi-Keyah

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 31, T-36-N, R-30-E

12. COUNTY OR PARISH 13. STATE
Apache Arizona

14. API NO.
02-001-20250

15. ELEVATIONS (SHOW DF, KDB, AND WD)
8888' KB; 8887' DF; 8877' GL

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

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Form 9-331
Dec. 1973

O & G CONS. COMM.

Form Approved
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

1. oil well gas well other

2. NAME OF OPERATOR
Kerr-McGee Corporation

3. ADDRESS OF OPERATOR
P.O. Box 250 Amarillo, Texas 79109

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2100' FSL & 800' FWL (NW/4 SW/4)
AT TOP PROD. INTERVAL: 2100' FSL & 800' FWL
AT TOTAL DEPTH: 2100' FSL & 800' FWL

5. LEASE
Navajo #14-20-0603-8823

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Navajo

9. WELL NO.
26

10. FIELD OR WILDCAT NAME
Dineh-bi-Keyah

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 31, T-36-N, R-30-E

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

14. API NO.
02-001-20250

15. ELEVATIONS (SHOW DF, KDB, AND WD)
8888' KB; 8887' DF; 8877' GL

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

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

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

- 10/15/81 Hook up elec lines & lay flowline
- 10/16/81 Hook up elec lines & lay flowline
- 10/17/81 MI pumping unit
- 10/18/81 Cont working on elec lines & flowline
- 10/19/81 RU Welex & ran GR-CBL-CCL logs. Tag btm @ 4400 RKB. Logged to 2600', TOC @ 3110.
- 10/20/81 Perf from 4230 to 4342". 2 SPF, Hermosa sill.
- 10/21/81 Frac w/ 40 M gal gelled crude & 60 M 10/20 sand, avg rate 340 psi & 51 BPM

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Kelley Eisenberg TITLE Sr. Eng. Assit. DATE October 23, 1981
Kelley Eisenberg

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL IF ANY:

720

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well gas well other

2. NAME OF OPERATOR
Kerr-McGee Corporation

3. ADDRESS OF OPERATOR
P.O. Box 250 Amarillo, Texas 79109

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2100' FSL & 800' FWL (NW/4 SW/4)
AT TOP PROD. INTERVAL: 2100' FSL & 800' FWL
AT TOTAL DEPTH: 2100' FSL & 800' FWL

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

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

5. LEASE
Navajo #14-20-0603-8823

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Navajo

9. WELL NO.
26

10. FIELD OR WILDCAT NAME
Dineh-bi-Keyah

11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA
Sec. 31, T-36-N, R-30-E

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

14. API NO.
02-001-20250

15. ELEVATIONS (SHOW DF, KDB, AND WD)
8871' Ungraded Ground

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

10/8/81 Drld from 3970' to 4172'; Form LS & SH; Drld 202' Mud wt 8.6
10/9/81 Drld from 4172' to 4388'; Form LS & SH; Drld 216' Mud wt 8.7
10/10/81 Drld from 4388' to 4470'; Form LS & SH; Drld 82' Mud wt 8.5
reached. TOH & to run logs. Loggers TD 4469'.
10/11/81 Ran 107 jts, 5 1/2", 15.5#, K-55, LT&C csg. GS @ 4468'; FC @ 4425'.
Pmp 600 bbls mud. Cmt w/ 250 sx Cl "H" w 1/4#/sk flow seal, 62 alk 9,
Disp w/104 sx cmt.
10/12/81 Release rig @ 2:30 a.m. 10/12/81.
10/13/81 MORT
10/14/81 MI Comp equip.
10/15/81 No work.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Kelley Eisenberg TITLE St. Eng. Assist. DATE October 16, 1981

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

720

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OCT 13 1981

Form 9-331
Dec. 1973

Form Approved
Budget Bureau No. 42-R1424

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
O & G CONS. COMM.

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well gas well other

2. NAME OF OPERATOR
Kerr-McGee Corporation

3. ADDRESS OF OPERATOR
P.O. Box 250 Amarillo, Texas 79109

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2100' FSL & 800' FWL (NW/4 SW/4)
AT TOP PROD. INTERVAL: 2100' FSL & 800' FWL
AT TOTAL DEPTH: 2100' FSL & 800' FWL

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

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
PULL OR ALTER CASING
MULTIPLE COMPLETE
CHANGE ZONES
ABANDON*
(other) weekly drilling report

5. LEASE
Navajo #14-20-0603-8823
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo
7. UNIT AGREEMENT NAME
N/A
8. FARM OR LEASE NAME
Navajo
9. WELL NO.
26
10. FIELD OR WILDCAT NAME
Dineh-bi-Keyah
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 31, T-36-N, R-30-E
12. COUNTY OR PARISH
Apache
13. STATE
Arizona
14. API NO.
02-001-20250
15. ELEVATIONS (SHOW DF, KDB, AND WD)
8871' Ungraded Ground

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

10-1-81 Drld. from 2638' to 2752'. Form Sh., Drld 114'; Mud wt. 8.4.
10-2-81 Drld. from 2752' to 2946'; Form sh., Drld 194', Mud wt. 8.6
10-3-81 Drld. from 2946' to 3150'; Form sh., Drld 204', Mud wt. 8.6
10-4-81 Drld. from 3150' to 3323'; Form Ls.; Drld. 175'; Mud wt. 8.6
10-5-81 Drld. from 3323' to 3323'; Form Ls & Sh.; 215'; Mud wt. 8.6
10-6-81 Drld. from 3590' to 3740'; Form Ls. & Sh.; Drld 150'; Mud wt. 8.6
Bit #7in @ 3656'.
10-7-81 Drld. from 3740' to 3970'; Form Ls. & Sh. Drld. 230'; Mud wt. 8.4

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Kelley Ewensberg TITLE St. Eng. Ass't DATE October 9, 1981

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

720

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OCT 5 1981

Form 9-331
Dec. 1973

Form Approved
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

O & G CONS. COMM. LEASE

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well gas well other

2. NAME OF OPERATOR

Kerr-McGee Corporation

3. ADDRESS OF OPERATOR

P.O. Box 250 Amarillo, Texas 79109

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE 2100' FSL & 800' FWL (NW/4 SW/4)
AT TOP PROD. INTERVAL: 2100' FSL & 800' FWL
AT TOTAL DEPTH: 2100' FSL & 800' FWL

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

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

Navajo #14-20-0603-8823

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Navajo

9. WELL NO.
26

10. FIELD OR WILDCAT NAME
Dineh-bi-Keyah

11. SEC. T. R. M. OR BLK. AND SURVEY OR AREA
Sec. 31, T-36-N, R-30-E

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

14. API NO.
02-001-20250

15. ELEVATIONS (SHOW DF, KDB, AND WD)
8871' Ungraded Ground

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

- 9-24-81 Drld. from 1983' to 2087', Form. SH, Drld. 104', Mud wt. 8.8. Lost approx. 480 BBLs. Mud
- 9-25-81 Drld. from 2087' to 2260', Form. SH., Drld. 173, Mud wt. 9.0. Lost approx. 150 BBLs Mud. Bit # 5 in @ 2083'.
- 9-26-81 Drld. from 2260' to 2420', Form. SH., Drld. 160', Mud wt. 9.0. Lost approx. 350 BBLs mud.
- 9-27-81 Drld. from 2420' to 2479', Form. Sh., Drld. 59', Mud wt. 8.9. No mud rtns. Good air rtns.
- 9-28-81 TOH to unplug bit.
- 9-29-81 Drld. from 2479' to 2638' Form SH., Drld. 159' mud wt. 8.6. Drld. w/ mud & air. No mud rtns, & fair air rtns.
- 9-30-81 RU new air compressor.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Kelley Eisenberg TITLE Sr. Eng. Ass't. DATE October 1, 1981

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

720

Form 9-331
Dec. 1973

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well gas well other

2. NAME OF OPERATOR
Kerr-McGee Corporation

3. ADDRESS OF OPERATOR
P.O. Box 250 Amarillo, Texas 79109

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2100' FSL & 800' FWL (NW/4 SW/4)
AT TOP PROD. INTERVAL: 2100' FSL & 800' FWL
AT TOTAL DEPTH: 2100' FSL & 800' FWL

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

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

(other) Weekly drilling & completion report

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.)

- 9-17-81 No drlg. fishing; ran freepoint test; pipe stuck @ 964, 933 & 902. Mud wt. 8.9.
- 9-18-81 Working on stuck pipe
- 9-19-81 Working on stuck pipe TOH w/ Fish & pipe. Wash hole. Lost circ @ 1876
- 9-20-81 Drld from 1876' to 1890'; form Sd & Sh; Drld 14'; mud wt 8.8. Lost circ. Fill hole w/ mud.
- 9-21-81 Drld from 1890 to 1928; form Sd & Sh; drld 38'; Mud wt 8.7; drld from 1890 to 1923' w/ air mud. Bit #4 in @ 1876'; 7 7/8" F-2
- 9-22-81 Wash & ream to bottom w/ 400# air
- 9-23-81 Drld from 1928' to 1983'; Form Sh; Drld 55'; Mud wt 8.7. Lost 770 Bbls mud last 24 hrs/

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Kelley Eisenberg TITLE Sr. Eng. Ass't. DATE 9-25-81
(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

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SEP 28 1981

Form Approved.
Budget Bureau of the U.S. GOVERNMENT COMM.

5. LEASE
Navajo #14-20-0603-8823

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Navajo

9. WELL NO.
26

10. FIELD OR WILDCAT NAME
Dineh-bi-Keyah

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 31, T-36-N, R-30-E

12. COUNTY OR PARISH | 13. STATE
Apache | Arizona

14. API NO.
02-001-20250

15. ELEVATIONS (SHOW DF, KDB, AND WD)
8871' Ungraded Ground

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

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SEP 24 1981

Form 9-331
Dec. 1973

Form Approved
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

O & G CONS. COMM. LEASE

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well gas well other

2. NAME OF OPERATOR
Kerr-McGee Corporation

3. ADDRESS OF OPERATOR
P.O. Box 250 Amarillo, Texas 79109

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE 2100' FSL & 800' FWL (NW/4 SW/4)
AT TOP PROD. INTERVAL: 2100' FSL & 800' FWL
AT TOTAL DEPTH: 2100' FSL & 800' FWL

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

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo #14-20-0603-8823

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Navajo

9. WELL NO.
26

10. FIELD OR WILDCAT NAME
Dineh-bi-Keyah

11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA
Sec. 31, T-36-N, R-30-E

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

14. API NO.
02-001-20250

15. ELEVATIONS (SHOW DF, KDB, AND WD)
8871' Ungraded Ground

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

- 9-10-81 Drld. from 0 to 130'; Form. Hd Rk; Mud wt. 8.9. Bit #1 STC 12 1/4" Spud @ 7 PM.
- 9-11-81 Drld. from 130' to 540'; Form. Ss.; Drld. 410'; Mud Wt. 9.0. Ran 12 fts. 8 5/8", 24#, K-55, ST&C csg. w/ GS @ 538' & IFV @ 494'. Cmtd w/ 350-sx Cl. "H" cmt. CIRC. 25 Bbls. to SURFACE.
- 9-12-81 Drld. from 540' to 1390'; Form. Sd. & Sh.; Drld 850'; Mud Wt. 8.9. Bit #2 in @ 540'; STC 7 7/8".
- 9-13-81 Drld. from 1390' to 1876'; Form. Sh.; Drld. 486'; Mud Wt. 8.8.
- 9-14-81 Stuck in hole @ 1876'.
- 9-15-81 Working on stuck pipe.
- 9-16-81 Subsurface Safety Valve: Manu. and Type _____

18. I hereby certify that the foregoing is true and correct
Set @ _____ Ft.
SIGNED Kelley Eisenberg TITLE Sr. Eng. Ass't DATE September 22, 1981

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY: _____

720

RECEIVED
SEP 24 1981

Form 9-331
Dec. 1973

Form Approved
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

O & G CONS. COMM. LEASE

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well gas well other

2. NAME OF OPERATOR

Kerr-McGee Corporation

3. ADDRESS OF OPERATOR

P.O. Box 250 Amarillo, Texas 79109

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 2100' FSL & 800' FWL (NW/4 SW/4)
AT TOP PROD. INTERVAL: 2100' FSL & 800' FWL
AT TOTAL DEPTH: 2100' FSL & 800' FWL

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

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

5. LEASE
Navajo #14-20-0603-8823

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Navajo

9. WELL NO.
26

10. FIELD OR WILDCAT NAME
Dineh-bi-Keyah

11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA
Sec. 31, T-36-N, R-30-E

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

14. API NO.
02-001-20250

15. ELEVATIONS (SHOW DF, KDB, AND WD)
8871' Ungraded Ground

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

- 9-10-81 Drld. from 0 to 130'; Form. Hd Rk; Mud wt. 8.9. Bit #1 STC 12 1/4"
Spud @ 7 PM.
- 9-11-81 Drld. from 130' to 540'; Form. Ss.; Drld. 410'; Mud Wt. 9.0. Ran 12 fts.
8 5/8", 24#, K-55, ST&C csg. w/ GS @ 538' & IFV @ 494'. Cmtd w/ 350' ex Cl.
"H" cmt. CIRC. 25 Bbls. to SURFACE.
- 9-12-81 Drld. from 540' to 1390'; Form. Sd. & Sh.; Drld 850'; Mud Wt. 8.9. Bit #2
in @ 540'; STC 7 7/8".
- 9-13-81 Drld. from 1390' to 1876'; Form. Sh.; Drld. 486'; Mud Wt. 8.8.
- 9-14-81 Stuck in hole @ 1876'.
- 9-15-81 Working on stuck pipe.
- 9-16-81 Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Kelley Eisenberg TITLE Str. Eng. Ass't DATE September 22, 1981

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

720

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 Kerr-McGee Corporation JUN 4 1981

3. ADDRESS OF OPERATOR
 P. O. Box 250 O & G CONSL. COMM.

4. LOCATION OF WELL (Report location clearly and in accordance with applicable requirements.)
 At surface: 2100' FSL & 800' FWL
 At proposed prod. zone: 2100' FSL & 800' FWL

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

6. IF INDIAN ALLOTTEE OR TRIBE NAME
 Navajo

7. UNIT AGREEMENT NAME
 N.A.

8. FARM OR LEASE NAME
 Navajo

9. WELL NO.
 26

10. FIELD AND POOL, OR WILDCAT
 Dinéh-bi-Keyah

11. SEC. T. R. M. OR BLM. AND SURVEY OR AREA
 Sec. 31, T36N, R30E

12. COUNTY OR PARISH
 Apache

13. STATE
 Arizona

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE
 13.5 miles Southwest from Red Rock, Arizona

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any)
 800'

16. NO. OF ACRES IN LEASE
 2533

17. NO. OF ACRES ASSIGNED TO THIS WELL
 40

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 1712'

19. PROPOSED DEPTH
 4300'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 8871 ungraded ground

22. APPROX. DATE WORK WILL START
 May 1, 1981

23. PROPOSED CASING AND CEMENTING PROGRAM
 DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO CERTAIN CONDITIONS ATTACHED
 This application is subject to administrative appeal pursuant to 30 CFR 290.

RECEIVED
 MAR 12 1981
 U. S. GEOLOGICAL SURVEY
 FARMINGTON, N. M.

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
24"	20"	94#/ft	100'	12 yds. Redimix
12 1/4"	8 5/8"	24#/ft	400'	300 sx.
7 7/8"	5 1/2"	14#/ft	4300'	300 sx.

1. Drill 24" surface hole & set 20" conductor casing to 100' & cement.
2. Drill 12 1/4" hole and set 8 5/8" surface casing to 400' w/good returns.
3. Log B.O.P. checks in daily drill reports and drill 7 7/8" hole to T.D.
4. Run logs and run 5 1/2" casing & cement if well is productive.
5. Run other logs as needed and perforate and stimulate as needed.

EXHIBITS ATTACHED

- | | |
|--|--|
| A. Location and Elevation Plat | H. Drill Rig & Production Facilities Layout. |
| B. Ten-Point Compliance Program | I. Archaeology Report |
| C. Blowout Preventer Diagram | J. Rehabilitation Plan |
| D. The Multi-Point Surface Use and Operations Plan | |
| E. Access Road Map onto Location | |
| F. Access Road Map onto Location | |
| G. Radius Map of Field | |
| G. Drill Pad Layout and Cut and Fill Section | |

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Kelley Eisenberg TITLE Engineering Assistant DATE February 26, 1981

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY: _____

APPROVED
AS AMENDED
 DATE
 JUN 02 1981
For Dean Elliot
 JAMES F. SIMS
 DISTRICT ENGINEER

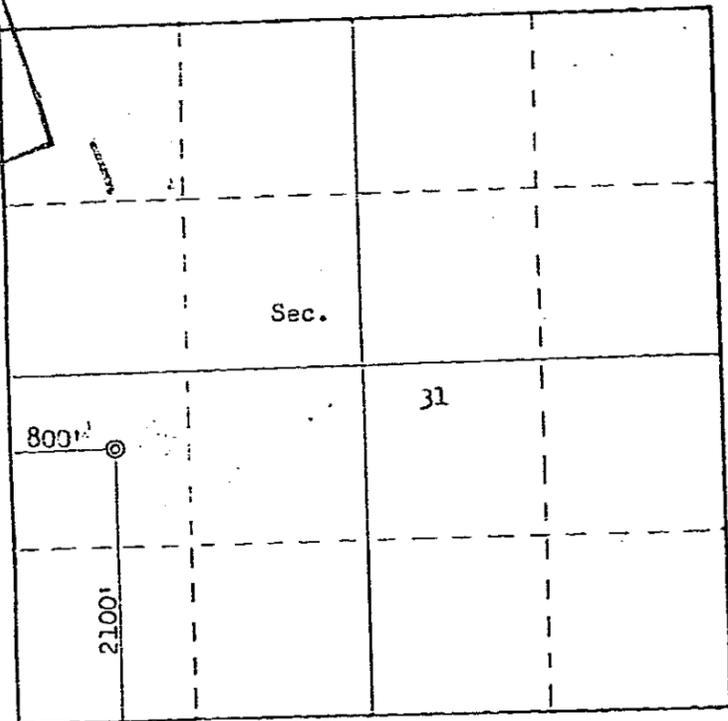
*See Instructions On Reverse Side

720

Arizona OCC

COMPANY KERR-McGEE CORPORATION
LEASE NAVAJO WELL NO. 26
SEC. 31, T. 36N, R. 30E
APACHE COUNTY, ARIZONA
LOCATION 2100'FSL 800'FWL
ELEVATION 8871 ungraded ground

RECEIVED
MAR 12 1981
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPER-
VISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

Fred B. Kerr Jr.
Fred B. Kerr Jr.

SEAL:

#3950
Registered Land Surveyor.

SURVEYED December 4, 1980

FARMINGTON, N. M.

EXHIBIT "B"
TEN-POINT COMPLIANCE PROGRAM
OF NTL-6 APPROVAL OF OPERATIONS

1. The Geologic Surface Formation

The surface formation is the Chuska.

2. Estimated Tops of Important Geologic Markers

Chuska	Surface
Coconina	1815'
Hermosa	3625'
Black Shale	4040'
Intrusive	4060'

3. Estimated Depths of Anticipated Water, Oil, Gas, or Minerals

Intrusive	4180'	Oil
-----------	-------	-----

4. The Proposed Casing Program

- (a) Conductor casing: Set 20", 94#/ft., H-40 ST&C, new casing to 100' in 24" surface hole; cement with 12 yards of redimix.
- (b) Surface casing: Set 8 5/8", 24#/ft., K-55 ST&C, new casing to 400' in 12 1/4" surface hole; cement with 300 sacks Class "B" with 2% CaCl and 1/4 lb. flocele per sack.
- (c) Production casing: Set 5 1/2" 14#/ft., K-55 ST&C, new casing to TD in 7 7/8" hole; cement with 300 sacks Class "B" with 1/4 lb. flocele per sack.

5. The Operator's Minimum Specifications for Pressure Control

EXHIBIT "C" is a schematic diagram of the blowout preventer equipment. The BOP's will be hydraulically tested to the full working pressure after nipping up and after any use under pressure. Pipe rams will be operationally checked each 24-hour period, as will blind rams each time pipe is pulled out of the hole. Such checks of BOP will be noted on daily drilling reports.

Exhibit "B"
Ten-Point Compliance Program
February 2, 1981
Page -2-

Accessories to BOP will include an upper kelly cock, and choke manifold with pressure rating equivalent to the BOP stack. (API Series 900)

6. The Type and Characteristics of the Proposed Circulating Muds

Mud system will be water-gel with adequate stocks of sorptive agents and other materials on site to handle any anticipated downhole problems as well as possible spills of fuel and oil on the surface. Heavier muds will be added if required.

- (a) 0' - 350' Water, gel and lime to drill surface hole.
Weight of mud: 8.9 to 9.0 ppg
- (b) 350' - T.D. Fresh water-gel
Weight of mud: 8.9 to 9.0 ppg
Viscosity: 38 to 48 sec.
Water loss: 8 to 10 cc

7. The Auxiliary Equipment to be Used

No auxiliary equipment will be used. The mud program will be monitored visually.

8. The Testing, Logging and Coring Programs to be Followed

- (a) No tests are anticipated.
- (b) The logging program will consist of Compensated Formation Density - Gamma Ray - Caliper Logs from total depth to bottom of surface casing. Run Gamma Ray from bottom of surface casing to surface.
- (c) No coring is anticipated.
- (d) Samples will be caught at 10' intervals from bottom of surface casing to total depth.

9. Any Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well.

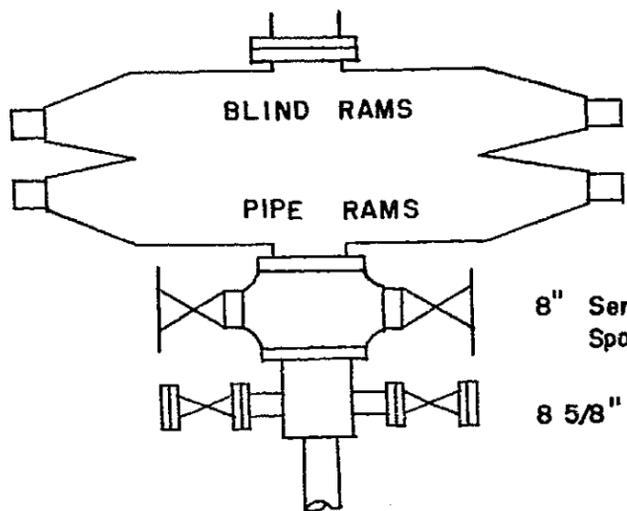
No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

10. Anticipated Starting Date and Duration of the Operations

The anticipated starting date is set for May 1, 1981, or as soon as possible after examination and approval of drilling requirements. Operations should be completed within 30 days after spudding the well and drilling to casing point.

EXHIBIT "C"

Blowout Preventer Diagram



8" 900 Series
Blowout
Preventer

8" Series 900
Spool

8 5/8" Series 900
Casinghead

PRESSURE CONTROL EQUIPMENT
KERR MCGEE CORPORATION
NAVAJO LEASE
DINEH-BI-KEYAH FIELD
APACHE COUNTY, ARIZONA

KERR-MCGEE CORPORATION

2

EXHIBIT "D"

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

Attached to Form 9-331C
Kerr-McGee Corporation
Navajo #26
Sec. 31, T36N, R30E
NW SW 1/4
Apache County, Arizona

1. Existing Roads

- A. The proposed well site and elevation plat is shown as EXHIBIT "A".
- B. The distance from Shiprock, New Mexico, is 5 miles south on Highway 666. Turn right (west) on Navajo Road No. 13 and proceed 20 miles to Red Rock, Arizona. Continue south on dirt road (Lukachukai Road) for 4 miles to "Y" in road. Take right hand fork (west) and proceed 3 miles to Kerr-McGee Warehouse. The Navajo No. 26 is located approximately 2.23 miles S 46° W of the warehouse as shown on attached map (Exhibits E & E₁).
- C. All roads are labeled into location. No new access road is needed. The logging trail needs minor improvement.
- D. N/A
- E. This is a development well. All existing roads within a one-mile radius are shown on EXHIBIT "E".
- F. The existing roads need no improvement except for the logging road which needs minor improvement.

2. Planned Access Roads

Map showing all necessary access roads to be constructed or reconstructed is shown as EXHIBIT "E" for the following:

- (1) The maximum width of the running surface of the 4250 ft. of access road as you leave the existing graded road will be 18'.
- (2) The grade will be 8% (eight percent) or less.
- (3) No turn outs are planned.
- (4) Appropriate water bars will be constructed to assure drainage off location to conform with the natural drainage pattern.
- (5) N/A

- (6) Surfacing materials will be native soil.
- (7) No gates, cattle guards, or fence cuts are needed.
- (8) Reconstructed road is centerline-flagged.

3. Location of Existing Wells

For all existing wells within a one mile radius of development well, see EXHIBIT "F".

- A. The number of water wells within a one mile radius of this location is none.
- B. The number of abandoned wells in this one mile radius is none.
- C. There are no temporarily abandoned wells.
- D. The number of disposal wells is none.
- E. There are no wells presently being drilled.
- F. The number of producing wells within this one mile radius is nine.
- G. The number of shut-in wells is two.
- H. There are no injection wells.
- I. There are no monitoring or observation wells for other uses.

4. Location of Existing and/or Proposed Facilities

- A. Within a one mile radius of location the following existing facilities are owned or controlled by lessee/operator:
 - (1) Tank Batteries: None
 - (2) Production Facilities: nine flowlines (buried)
 - (3) Oil Gathering Lines: Shown on EXHIBIT "F".
 - (4) Gas Gathering Lines: None
 - (5) Injection Lines: none
 - (6) Disposal Lines: none
- B. If production is obtained, new facilities will be as follows:
 - (1) The production facilities will be flagged and composed of a flow line to be connected to existing oil gathering lines as shown on EXHIBIT "F".

(2) No new facilities needed.

(3) N/A.

(4) N/A.

C. Rehabilitation, whether well is productive or dry, will be made on all unused area in accordance with the restoration plans presented in ITEM #10 following.

5. Location and Type of Water Supply

- A. The source of water will be Standing Red Rock Creek, in the Southwest corner of Sec. 11 T30N R30E, which is running water, as shown on EXHIBIT "E".
- B. Water will be transported by truck over existing roadways.
- C. No water well is to be drilled on this lease.

6. Construction Materials

- A. No construction materials are needed for drilling or access roads into the drilling location. The surface soil materials will be sufficient.
- B. No construction materials will be taken off the Indian land.
- C. All surface soil materials for construction of access roads are sufficient.
- D. All major access roads presently exist as shown on EXHIBIT "E".

7. Handling of Waste Materials and Disposal

- A. Drill cuttings will be buried in the reserve pit and covered.
- B. Drilling fluids will be handled in the reserve pit.
- C. Any fluids produced during drilling test or while making production test will be collected in a test tank. If a test tank is not available during drilling, fluids will be handled in reserve pit. Any spills of oil, gas, salt waters, or other noxious fluids will be cleaned up and removed.

- (D) Chemical facilities will be provided for human waste.
- (E) Garbage and non-flammable waste and salts and other chemicals produced during drilling or testing will be handled in trash pit. Flammable waste will be disposed of in trash pit. Drill fluids, water, drilling mud, and tailings will be kept in reserve pit, as shown on EXHIBIT "H".
- (F) After the rig moves out, all materials will be cleaned up and no adverse materials will be left on location. Any dangerous open pit will be fenced during drilling and kept closed until such time as the pit is leveled. Reserve pit will be fenced on three sides and the fourth side fenced upon removal of the rig. The trash pit will be totally enclosed with small mesh wire.

8. Ancillary Facilities

No air strip, camp or other facilities will be built during drilling of this well.

9. Well Site Layout

- A. EXHIBIT "G" is the Drill Pad Layout as staked, with elevations, by Jim O'Leary, Field Foreman for DBK, for the Kerr-McGee Corporation. Cuts and fills have been drafted to visualize the planned cut across the location spot and to the deepest part of the pad. Topsoil will be stockpiled per BIA specifications determined at time of pre-drill inspection.
- B. EXHIBIT "H" is a plan diagram of the proposed rig and equipment, reserve pit, burn and trash pit, pipe racks and mud tanks. No permanent living facilities are planned.
- C. EXHIBIT "H" includes rig orientation, parking areas, and access road.
- D. The reserve pits will not be lined.

10. Plans for Restoration

- A. Backfilling, leveling and contouring are planned as soon as all pits have dried. Waste disposal and spoils materials will be buried or hauled away immediately after drilling is completed. If production is obtained, the unused area will be restored as soon as possible.
- B. The soil banked material will be spread over the area. Revegetation will be accomplished by planting mixed grasses as per formula provided by the BIA. Revegetation is recommended for road area, as well as around drill pad.

- C. Three sides of the reserve pit will be fenced during drilling operations. Prior to rig release, the reserve pit will be fenced on the fourth side to prevent livestock or wildlife from becoming entrapped; and the fencing will be maintained until leveling and cleanup are accomplished.
- E. If any oil is on the pits and is not immediately removed after operations cease, the pit containing the oil or other adverse substances will be flagged overhead or covered with wire mesh.
- F. The rehabilitation operations will begin immediately after the drilling rig is removed. Removal of oil or other adverse substances will begin immediately or area will be flagged and fenced. Other cleanup will be done as needed. Planting and revegetation is considered best in September, 1981, unless requested otherwise.

11. Other Information

- A. The soil is sandy to silty. No distinguishing geological features are present. The area is covered with pine trees, oak brush, some aspen, and native grass. There are livestock, rabbits, sheep, and deer in the area. The topography is mountainous.
- B. The primary surface use is for grazing. The surface is of the Navajo Tribal lands administered by the Bureau of Indian Affairs.
- C. The closest live water is Standing Red Rock Creek, approximately 3/4 miles NW of the location, as shown on EXHIBIT "E".

There are no known archaeological, historical, or cultural heritages that will be disturbed by this drilling.

The closest occupied dwelling is the Kerr-McGee office located miles from the location, in which someone is there 24 hours a day.
- D. There are no reported restrictions or reservations noted on the oil and gas lease.
- E. Drilling is planned for on or about May 1, 1981. It is anticipated that the casing point will be reached within 20 days after commencement of drilling.

12. Lessee's or Operator's Representative

C. Alan Roberts
Kerr-McGee Corporation
P. O. Box 250
Amarillo, Texas 79189
Phone (806) 359-0351

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Kerr-McGee Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Date

3/9/81

C. Alan Roberts
C. Alan Roberts
District Manager
Southwest District - N. A.

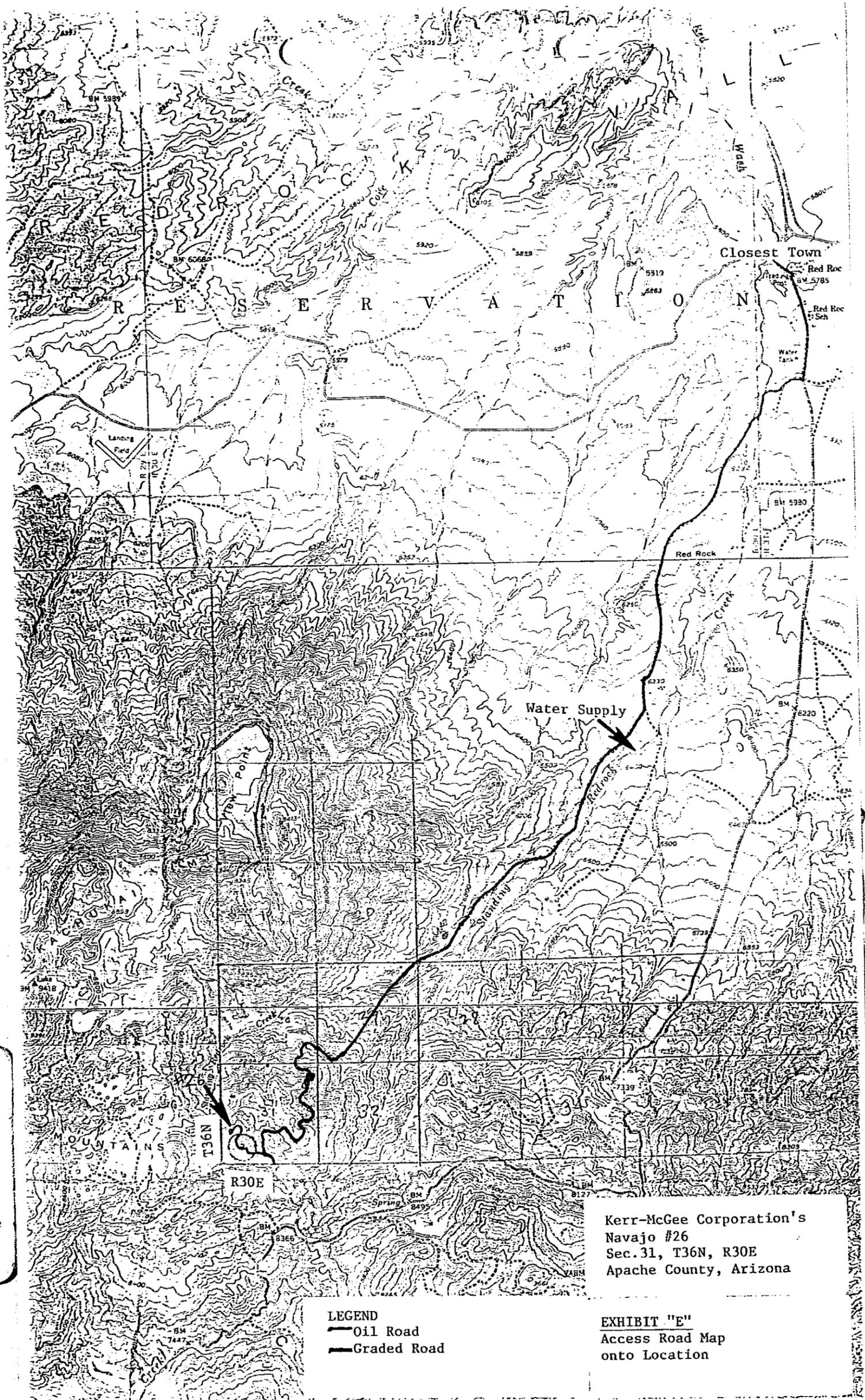
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Kerr-McGee Corporation's
 Navajo #26
 Sec. 31, T36N, R30E
 Apache County, Arizona

LEGEND
 — Oil Road
 — Graded Road

EXHIBIT "E"
 Access Road Map
 onto Location



Kerr-McGee Corporation's
 Navajo #26
 Sec. 31, T36N, R30E
 Apache County, Arizona

LEGEND
 — Oil Road
 — Graded Road

EXHIBIT "E"
 Access Road Map
 onto Location

Kerr-McGee Corporation's
Navajo #26
Sec. 31, T36N, R30E
Apache County, Arizona

EXHIBIT "E,"
Access Road Map
onto Location

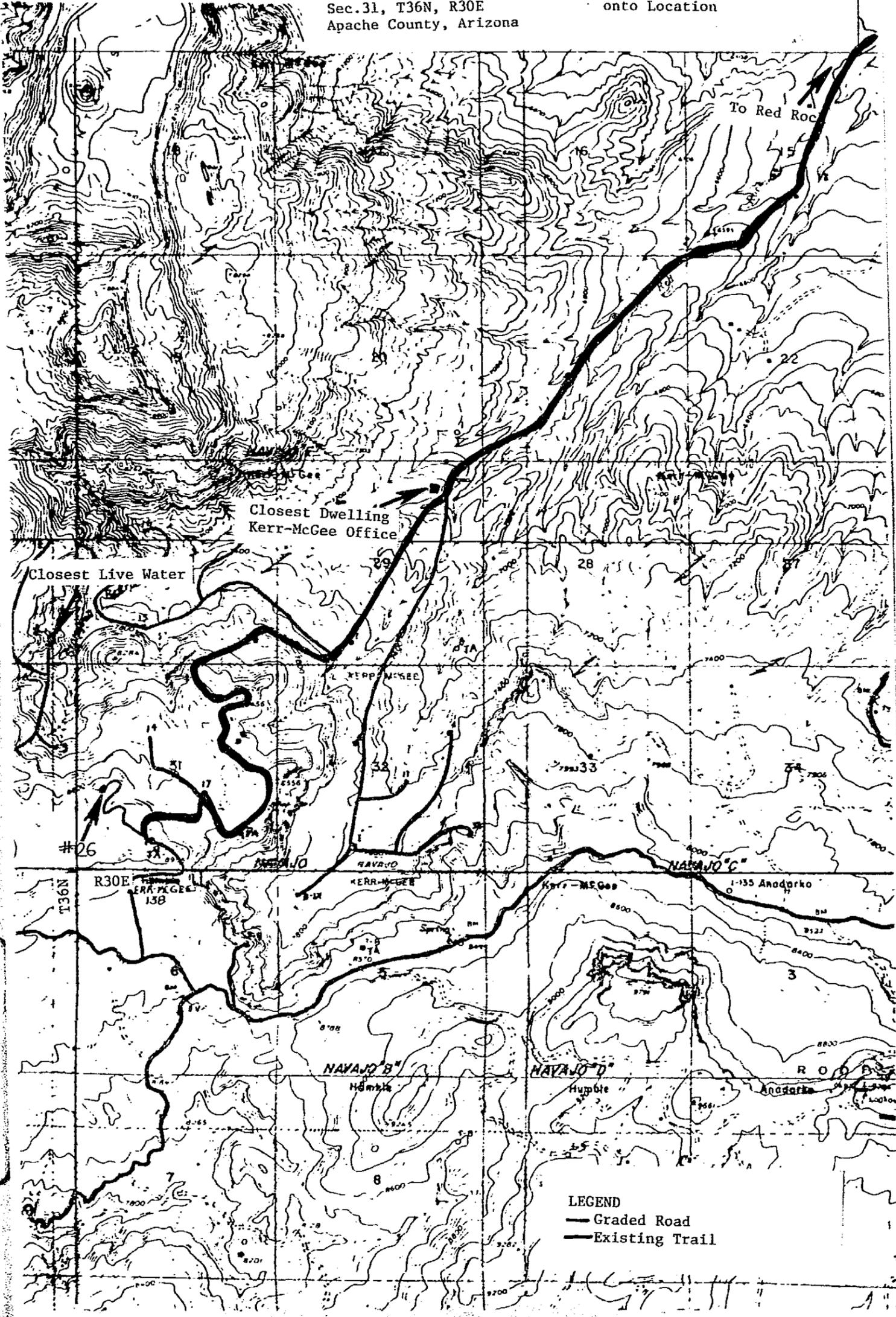
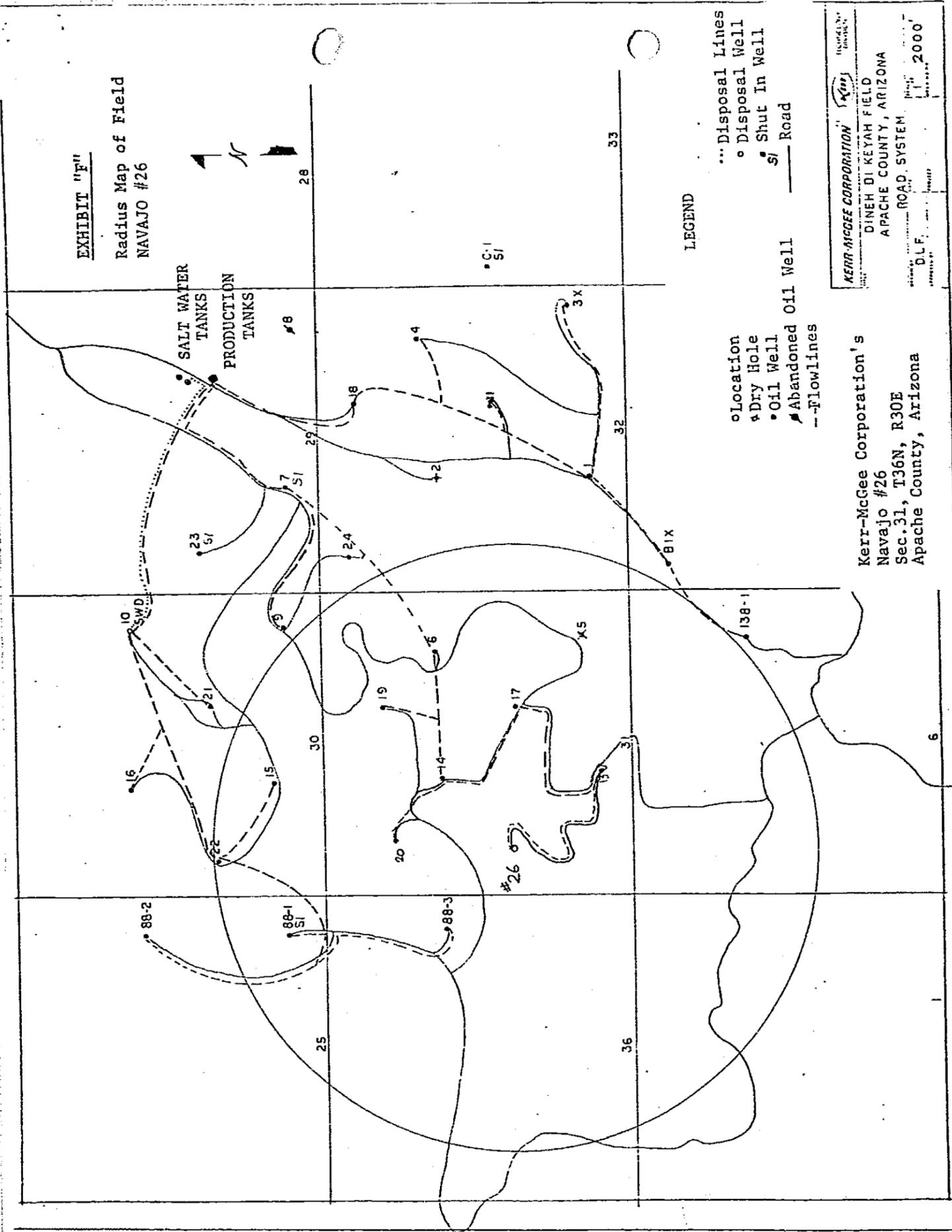


EXHIBIT "F"

Radius Map of Field
NAVAJO #26

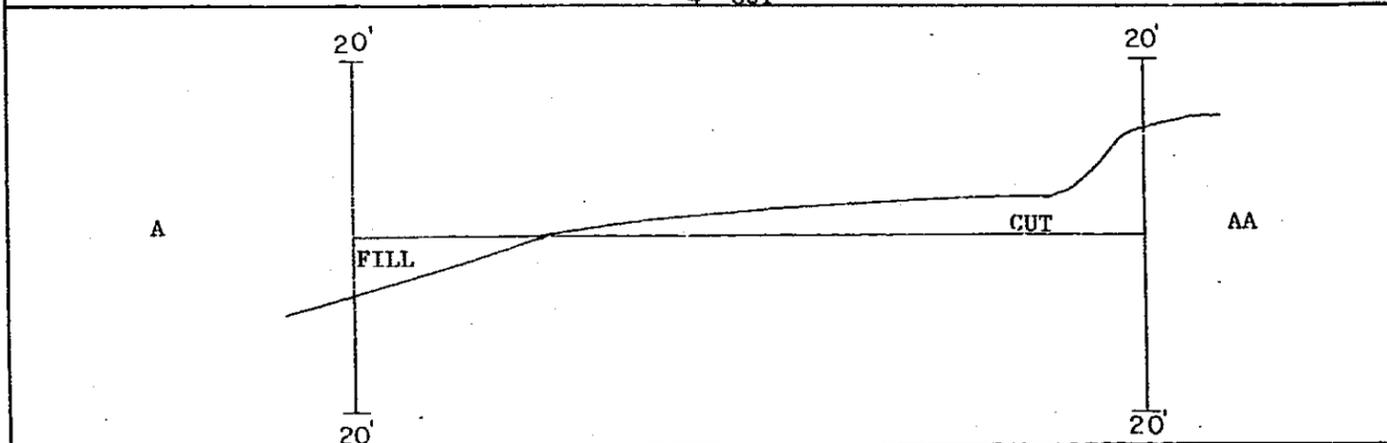
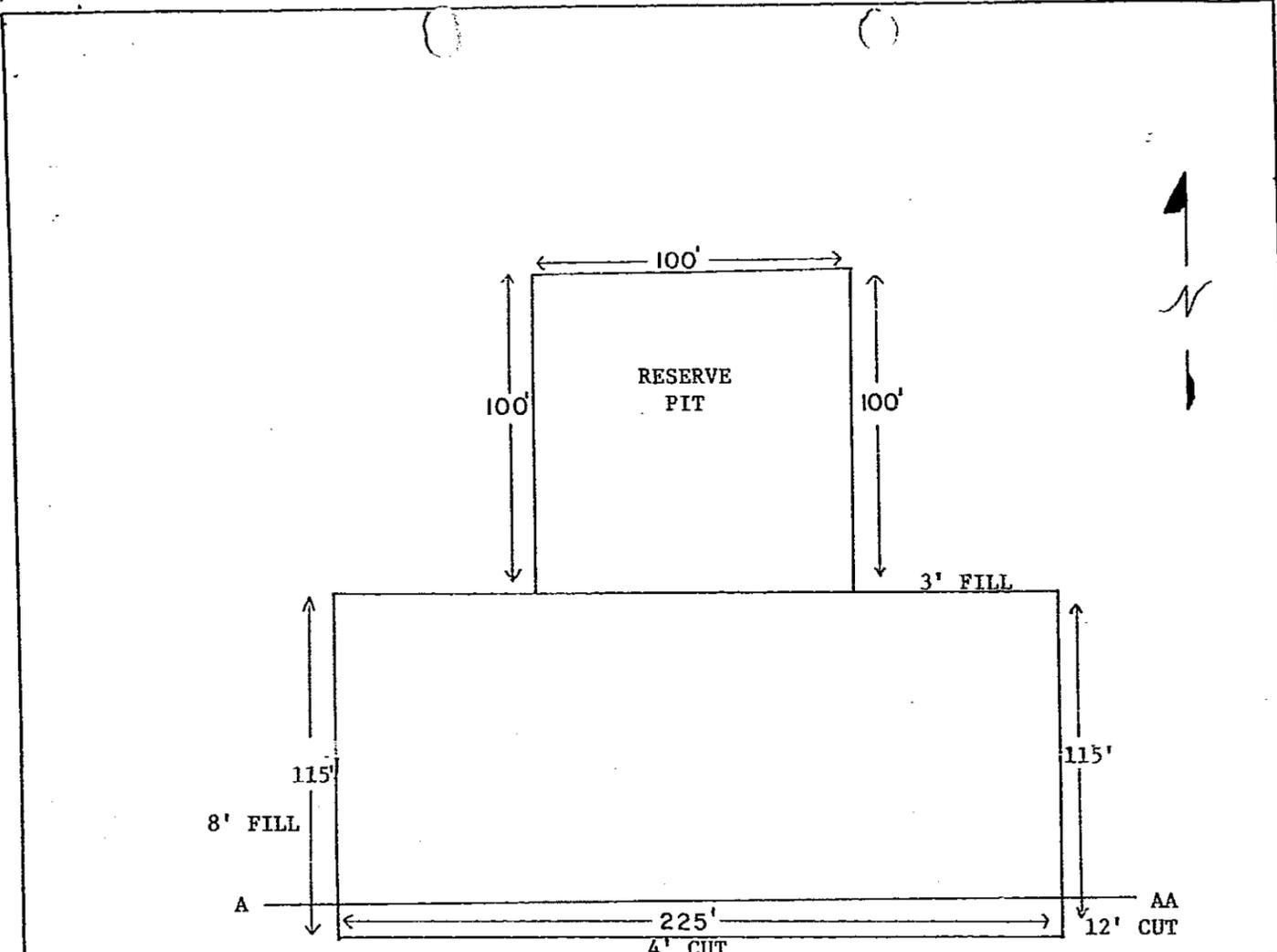


LEGEND

- o Location
- ▲ Dry Hole
- Oil Well
- Abandoned Oil Well
- Flowlines
- ... Disposal Lines
- Disposal Well
- ◻ Shut In Well
- Road

KERR-MCGEE CORPORATION
DINEH DI KEVAH FIELD
APACHE COUNTY, ARIZONA
ROAD SYSTEM
D.L.F.
SCALE: 1" = 2000'

Kerr-McGee Corporation's
Navajo #26
Sec. 31, T36N, R30E
Apache County, Arizona



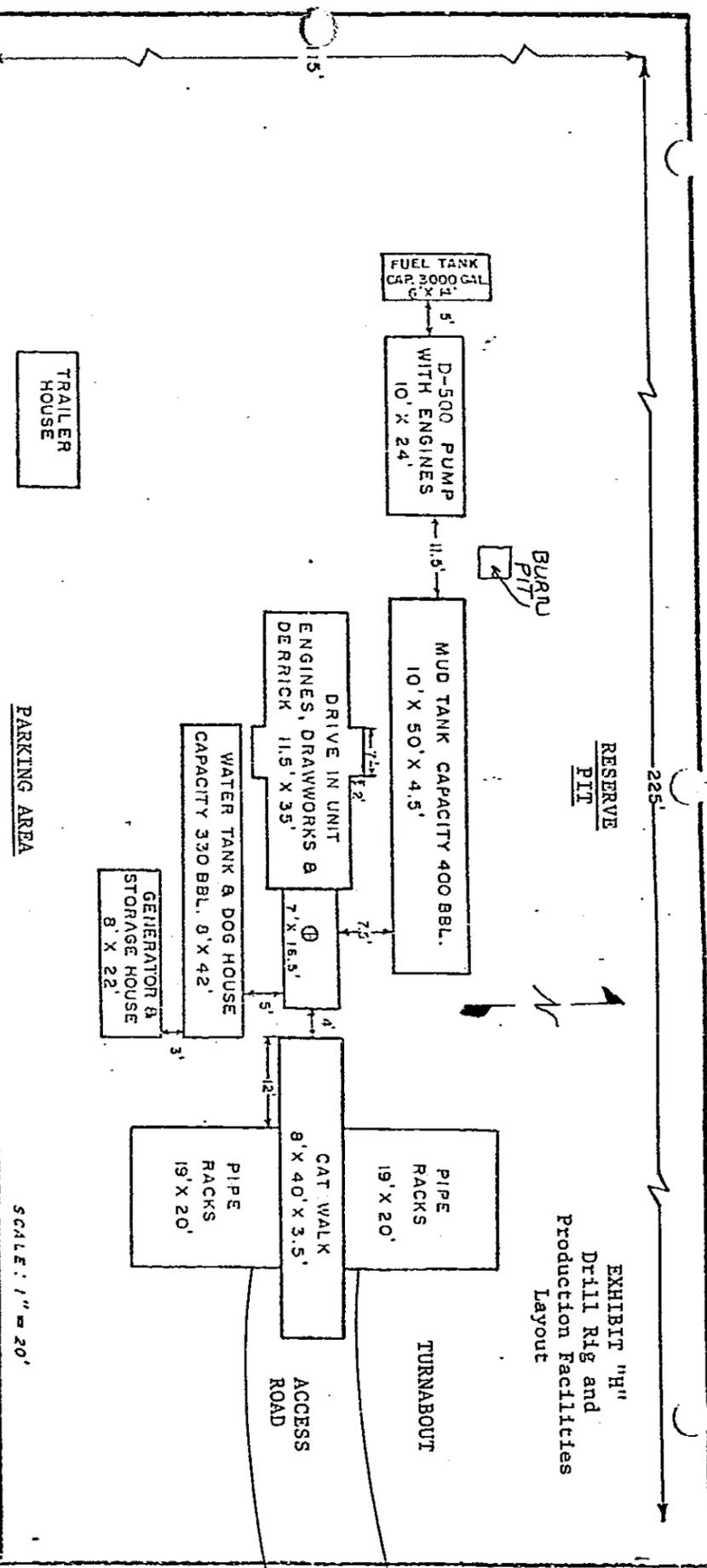
KERR-MCGEE CORPORATION



KM-2180

SCALE: HORIZ. 1"=50' VERT. 1"=20'	APPROVED BY:	DRAWN BY CKE
DATE: 2/13/81		REVISED
EXHIBIT "G"		
Drill Pad Layout & Cut-Fill X Section Navajo Well No.26		
		DRAWING NUMBER G

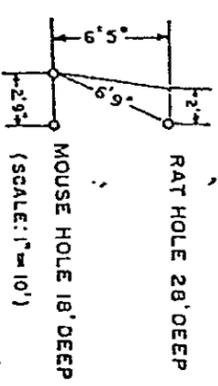
EXHIBIT "H"
Drill Rig and
Production Facilities
Layout



RIG NO. 70

SCALE: 1" = 20'

RAT & MOUSE HOLE DETAIL



- (1) GROUND LEVEL TO BOTTOM OF ROTARY BEAMS : 7 FEET — 4 INCHES
- (2) GROUND LEVEL TO TOP OF ROTARY TABLE : 9 FEET
- (3) RECOMMENDED LOCATION SIZE : 225 FEET X 115 FEET
 - 100 FEET FROM CENTER OF HOLE TO FRONT
 - 125 FEET FROM CENTER OF HOLE TO BACK
 - 24 FEET FROM CENTER OF HOLE TO RESERVE PIT
 - 75 FEET FROM CENTER OF HOLE TO EDGE
- (4) ABOVE LAYOUT IS SUGGESTED, HOWEVER EQUIPMENT CAN BE REARRANGED TO FIT TIGHT LOCATIONS.

Project No. 92-8

Federal Antiquities Permit
79-NM-178
Navajo Nation #46

EXHIBIT "I"

An Archaeological Survey of
6 Oil Wells and Associated Access Roads
Apache County, Arizona

for

Kerr McGee

Locations

Kerr McGee #88-6 Navajo
Kerr McGee Navajo #27
Kerr McGee #25 Navajo
Kerr McGee Navajo 88-5
Kerr McGee #3 Navajo 138
Kerr McGee #26 Navajo

by

Margaret A. Powers
Supervisory Archaeologist

Submitted by
Margaret A. Powers
Principal Investigator

DIVISION OF CONSERVATION ARCHAEOLOGY

Contributions to Anthropology Series, No. 326
San Juan County Archaeological Research Center and Library

December 15, 1980

ABSTRACT

On December 12, 1980, the Division of Conservation Archaeology of the San Juan County Museum Association completed an archaeological survey of six oil wells and associated access roads for Kerr McGee. The survey area is located on the Navajo Reservation, Apache County, Arizona in the Chuska Mountains and is under the jurisdiction of the Bureau of Indian Affairs and the Navajo Nation. Only isolated artifacts of recent origin were located. Since these have minimal research potential and have been documented during the survey, clearance is recommended for all locations except Kerr McGee #26 Navajo which had excessive snow cover and could not be inspected.

INTRODUCTION

On December 12, 1980, the Division of Conservation Archaeology (DCA) of the San Juan County Museum Association conducted an archaeological survey for Kerr McGee. Mr. Victor Eaton of Atchison Construction requested the survey on December 4, 1980. Margaret A. Powers administered the project for DCA; Mr. Eaton administered the project for Kerr McGee.

In recognition of the limited, nonrenewable nature of archaeological remains, federal and state governments have enacted legislation that is designed to conserve and protect these resources. The principal federal legislation includes the Antiquities Act of 1906 (PL 52-209), the Historic Preservation Act of 1966 (PL 89-665), the National Environmental Policy Act of 1969 (PL 91-852), the 1971 Executive Order No. 11593, the Archaeological and Historical Conservation Act of 1974 (PL 93-291), and the Archaeological Act of 1979 (PL 96-95).

In addition, the states of Arizona, New Mexico, Utah, and Colorado have enacted laws to ensure compliance with federal legislation and to protect archaeological resources within their jurisdiction. Work undertaken in the course of this project is governed by the stipulations of Navajo Nation Permit #46 and Federal Antiquities Permit No. 79-NM-178 and is for purposes of compliance with these statutes.

Margaret A. Powers, DCA archaeologist, surveyed the project area for cultural remains. Dr. David Doyel, Director of the Navajo Cultural Resources Program and Dr. Barry Holt, Bureau of Indian Affairs Navajo Area Archaeologist were notified of the survey schedule prior to beginning fieldwork. The following persons were present during the field inspection: Mr. James O'Leary of Kerr McGee, Mr. Vic Eaton of Atchison Construction, and Mr. Ron Milford and Mr. Dave Bahe of the BIA Forestry Office in Fort Defiance, Arizona.

METHODS

The area was surveyed by inspecting all snow-free patches on each pad, access road and buffer zone or by using zig-zag parallel transects spaced approximately 20m apart where snow cover was minimal. A buffer zone of 50 feet was surveyed around each pad and of 35' on each side of the proposed access roads. The archaeologist recorded all cultural remains. Those whose information potential exceeded what could be extracted during the survey phase were assigned site status. Other cultural remains were documented as isolated loci (IL). Pertinent environmental data were also recorded.

In addition to field inspection, the archaeologist conducted a search of the records at the San Juan County Archaeological Research Center and Library to determine if any sites had been

previously recorded in the project area.

The Environment

All proposed developments are situated on the northeastern flanks of the Chuska Mountains in the headwaters of Standing Red Rock Creek. Much of the survey area is on steeply sloping terrain. The vegetation consists of mixed forest species, predominantly Ponderosa pine (Pinus ponderosa), Douglas fir (Pseudotsuga menziesii), and aspen (Populus tremuloides). The understory is dominated by snowberry (Symphoricarpos spp.). The surface is typical of forest zones, a thick layer of matted needles and leaves, partially decayed to form a dark humic layer. Fallen trees criss-cross the forest floor and form "thickets" many square meters in area. Logging activities are evident throughout the forest in the form of logging trails and sawn tree stumps. Deer, rabbit, squirrel, and porcupine signs were found in the survey areas.

PROJECT AREAS

Kerr McGee #88-6 Navajo

Legal Description: 2000' F/SL, 1690' F/EL, Section 25, T36N, R29E, Salt-Gila, Apache County, Arizona

UTM Coordinates: Zone 12, 4040450N, 663850E, (center stake)

Map Source: U.S.G.S. 15' Lukachukai, Arizona (1955)

Land Jurisdiction: Navajo Nation, Bureau of Indian Affairs

Project Area: 300' X 300' (pad)
30' X ca. 600' (road), 2.5 acres

Description: The pad lies on an east facing slope of approximately 80°, rising more steeply to the west. The access road leaves the pad on the east side and runs southeast to join an existing bladed road. Snow on the access road was patchy with about 30% coverage. The east half of the pad was snow covered by approximately 60% of the area but the west half had no more than 10% snow cover.

Cultural Resources: No artifact scatters were detected in the aspen area. No structural remains are present. Isolated artifacts may have been obscured by the patches of snow.

Recommendation: Because no significant cultural resources were evident, DCA recommends archaeological clearance.

Kerr McGee Navajo #27

Legal Description: 600' F/EL, 2260' F/SL, Section 31, T36N, R30E, Salt-Gila, Apache County, Arizona

UTM Coordinates: Zone 12, 4038975N, 665900E, (center stake)

Map Source: U.S.G.S. 15' Lukachukai, Arizona (1955)

Land Jurisdiction: Navajo Nation, Bureau of Indian Affairs

Project Area: 300' X 300' (pad)
30' X ca. 800' (road), 2.6 acres

Description: The proposed well is located in a heavily wooded area with occasional rock outcrops. There is a knoll to the southeast of the well pad and the terrain drops steeply to the south of the pad. The access road leaves the pad on the northwest side and circles around to the southeast to join an existing graded road. Snow cover over the area was patchy, covering 30 to 40% of the project area.

Cultural Resources: No artifacts were evident in the patches of ground that were not snow covered. Some isolates may have been missed in the survey but no large sites or structural remains were present. A few carvings of dates (1969-1974) and the phase "Red Rock Property" were cut into the bark of some aspens.

Recommendation: Because of the absence of significant cultural remains, DCA recommends archaeological clearance.

Kerr McGee #25 Navajo

Legal Description: 1140' F/NL, 2090' F/WL, Section 31, T36N, R30E,
Salt-Gila, Apache County, Arizona

UTM Coordinates: Zone 12, 4039475N, 665075E, (center stake)

Map Source: U.S.G.S. 15' Lukachukai, Arizona-New Mexico (1955)

Land Jurisdiction: Navajo Nation, Bureau of Indian Affairs

Project Area: 300' X 300' (pad)
30' X 400' (road), 2.3 acres

Description: The proposed pad is located on a northeast facing slope that overlooks a canyon in the Standing Red Rock drainage. The gradient is gentler to the southeast where the access road departs. The access road runs southeast partially along a logging trail to intersect on existing bladed road. Snow cover was approximately 20%, with slightly heavier snow on the northeast corner of the pad.

Cultural Resources: One tire segment and one aluminum pop-top soda can were noted along the access road. Although snow may have obscured isolated artifacts, significant artifact scatters or structural remains would have been evident if present.

Recommendation: Since no significant cultural remains were present, archaeological clearance is recommended.

Kerr McGee Navajo 88-5

Legal Description: 580' F/EL, 1000' F/NL, Section 36, T36N, R29E,
Salt-Gila, Apache County, Arizona

UTM Coordinates: Zone 12, 4039500N, 665800E (center stake)

Map Source: U.S.G.S. 15' Lukachukai, Arizona (1955)

Land Jurisdiction: Navajo Nation, Bureau of Indian Affairs

Project Area: 300' X 300' (pad)
30' X 1200' (road), 2.9 acres

Description: The proposed pad sits on a small saddle amid steep slopes. The access road leaves the pad and runs northeast on a steep wooded slope to a former tank battery. The road then sitchbacks and runs southeast on a previously graded road through "sugar" sand up a steep grade to join an existing graded road. Snow cover on the access road and pad was approximately 20% with slightly higher coverage on the northeast corner of the pad, perhaps as much as 40%.

Cultural Resources: No structural remains or artifact scatters were evident, nor are any likely given the steepness of the terrain. No isolates were noted but they could easily have been missed because of the patchy snow cover.

Recommendation: Because of the absence of significant cultural remains, DCA recommends clearance.

Kerr McGee #3 Navajo 138

Legal Description: 600' F/NL, 2200' F/EL, Section 6, T35N, R30E,
Salt-Gila, Apache County, Arizona

UTM Coordinates: Zone 12, 4038050N, 665375E, (Center Stake)

Map Source: U.S.G.S. 15' Lukachukai, Arizona (1955)

Land Jurisdiction: Navajo Nation, Bureau of Indian Affairs

Project Area: 300' X 300' (pad)
30' X 600' (road), 2.5 acres

Description: The pad is located on a gentle westerly slope in an aspen-Ponderosa pine forest. Snow cover was less than 10%. The access road leaves the pad and runs to the west to link up with a logging trail. The logging trail continues west to intersect an existing bladed road.

Cultural Resources: Two rusted soda cans with church key openings were found west and northwest of the center stake. They are probably associated with logging activities.

Recommendation: Because of the absence of significant cultural remains, archaeological clearance is recommended.

Kerr McGee #26 Navajo

Legal Description: 2100' F/SL, 800' F/WL, Section 31, T36N, R30E,
Salt-Gila, Apache County, Arizona

UTM Coordinates: Zone 12, 4038875N, 664675E (center stake)

Map Source: U.S.G.S. 15' Lukachukai, Arizona-New Mexico (1955)

Land Jurisdiction: Navajo Nation, Bureau of Indian Affairs

Project Area: 300' X 300' (pad)
30' X 900' (road), 2.9 acres

Description: The well pad is situated in a gently sloping and rolling area of a large level bench below the mountain crest. The terrain drops steeply to north and east. The access road leaves the pad to the east and bends back to the south along a logging trail before descending a slope to the west to join an existing bladed road. Snow cover on the pad and on the first 300 feet of access road leaving the pad exceeded 70% in unbroken cover. The remainder of the access road exhibited no more than 20% patchy snow cover.

Cultural Resources: One broken chain saw guard probably from past logging was found along the access road. No other cultural remains were noted.

Recommendation: Because of the unbroken and extensive snow cover on the pad and first 300 feet of access road, an adequate archaeological survey was not possible. Therefore, clearance is not recommended at this time. The remainder of the access road was free of cultural remains and archaeological clearance is recommended.

Navajo Permit #46
Federal Antiquities
Permit #81-NM/UT/AZ-085

Addendum to

An Archaeological Survey of
6 Oil Wells and Associated Access Roads,
Apache County, Arizona for Kerr McGee

by

Margaret A. Powers

On January 15, 1981, the Division of Conservation Archaeology (DCA) resurveyed 4 proposed well locations for Kerr McGee in the Red Rock/Lukachukai area of Arizona. The original survey on December 12, 1980 (NPS File No DCA-80-431) documented snow cover of greater than 10 percent and at the request of Dr. Terje Birkedal, five of the six were scheduled to be reexamined. The sixth was within the 10% limit. Plans to develop Navajo #3-5 have been dropped since the initial survey and this location was not resurveyed. All of the four other locations had snow cover levels of 10% or less on January 15, 1981. The results of the resurvey are described below.

- #27 Navajo - Cultural remains consists of 1 all-aluminum lemon soda can (initially recommended for clearance)
- #88-6 Navajo - No cultural remains (initially recommended for clearance)
- #25 Navajo - No cultural remains (initially recommended for clearance)
- #26 Navajo - One site DCA-81-22, a modern Navajo construction, was located 33m northeast of the well stake. The site was flagged for avoidance. (resurvey was initially advised)

DCA-81-22 consists of a small sweathouse-like structure with an entry oriented to 70° (MN). The structure has a maximum exterior basal diameter of 1.3m and stands only 60cm high. The structure is constructed of about 30 slanting limbs, probably deadfall, forming a cone. The entry is framed with poles and is about 25cm wide and 40cm high, with two short branches attached with baling wire to form a lintel.

Approximately 75cm to the north of the sweat house is a pile of sooted sandstone chunks and charcoal forming a mound about 1.5 in diameter and 30cm high.

One coffee can lid lies about 3m east of the structure.

The arrangement of the features parallels that of full-size sweathouse patterns but the conical structure is too small even for me, at 5'0", to sit upright in. I could have curled up in it, however, once I squeezed through the entrance. There would be no room to place hot rocks without scorching oneself.

The condition of the baling wire suggests that at the outside the structure is no more than twenty years old and is probably only about 5 years old.

According to Mr. Claude Hatch, Navajos sometimes build small features like that described above to shelter a dog during cold weather. The scorched rock and charcoal might be remnants of an horno although no indications of its form remain. If the site does consist of a doghouse and a cooking facility, it may be all that remains of a fall or spring campsite.

The small size of the structure, particularly its height and restricted floor area, together with Mr. Hatch's observation that rocks are usually left inside a sweat lodge and that the structure must be large enough to permit a person to sit or squat at least one or two feet from the hot rock pile, indicates that the feature did not function as a sweathouse despite the proximity of the rock pile.

The site was marked with white flagging tape so that it could be avoided during construction. If it is not possible to avoid the site, DCA recommends that prior to construction an ethnographer and informant visit the site to obtain a better functional assessment.

With these stipulations DCA recommends archaeological clearance for all four locations.

APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

RECEIVED

APPLICATION TO DRILL

RE-ENTER OLD WELL

MAR 11 1981

O & G CONS. COMM.

Kerr-McGee Corporation
NAME OF COMPANY OR OPERATOR

P. O. Box 250 Amarillo TX 79189
Address City State

Brinkerhoff Signal, Inc.
Drilling Contractor

3400 Anaconda Tower Denver, CO 80202
Address

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or if fee lease, name of lessor	Well number	Elevation (ground)
14-20-0603-8823 Navajo	26	8871 ungraded ground

Nearest distance from proposed location to property or lease line:	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease:
800 feet	1712 feet

Number of acres in lease:	Number of wells on lease, including this well, completed in or drilling to this reservoir:
2533	26

If lease, purchased with one or more wells drilled, from whom purchased:	Name	Address

Well location (give footage from section lines)	Section—township—range or block and survey	Dedication (Comply with Rule 105)
2100' FSL & 800' FWL	Sec. 31 T36N R30E	NW SW 1/4

Field and reservoir (if wildcat, so state)	County
Dineh-bi-Keyah	Apache

Distance, in miles, and direction from nearest town or post office
13.5 miles Southwest from Red Rock, Arizona

Proposed depth:	Rotary or cable tools	Approx. date work will start
4300'	Rotary	May 1, 1981
Bond Status Blanket Bond	Organization Report	Filing Fee of \$25.00
Amount	On file <input checked="" type="checkbox"/> Or attached	Attached Yes; Check No. 104612

Remarks:

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

Kelley Eisenberg
Signature

February 26, 1981
Date

Permit Number: 720
Approval Date: March 1981
Approved By: *W. G. De*

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

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

- Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
- A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
- All distances shown on the plat must be from the outer boundaries of the Section.
- Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES NO
- If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES NO If answer is "yes," Type of Consolidation _____
- If the answer to question four is "no," list all the owners and their respective interests below:

Owner	Land Description
	<p style="text-align: center;">CERTIFICATION</p> <p>I hereby certify that the information above is true and complete to the best of my knowledge and belief.</p> <p><i>Kelley Eisenberg</i> Name Kelley Eisenberg Position Engineering Assistant Company Kerr-McGee Corporation Date February 26, 1981</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 December 4, 1980 Registered Professional Engineer and/or Land Surveyor</p> <p>See attached plat Certificate No. 3950</p>

PROPOSED CASING PROGRAM

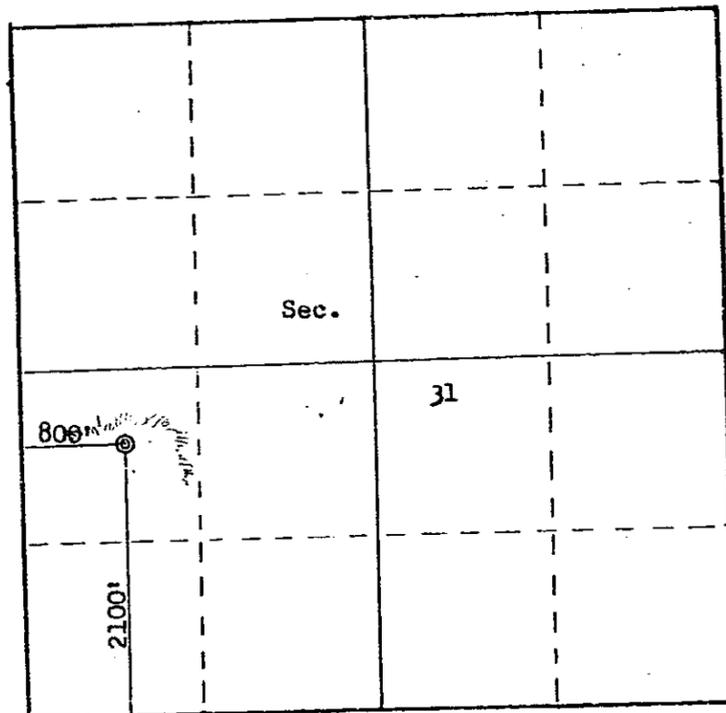
Size of Casing	Weight	Grade & Type	Top Surf.	Bottom	Cementing Depths	Sacks Cement
20"	94#	H-40 ST&C	Surf.	100'	100'	12 yds. Redmix
8 5/8"	24#	K-55 ST&C	Surf.	400'	400'	300 sx.
5 1/2"	14#	K-55 &C	Surf.	4300'	4300'	300 sx.

RECEIVED

MAR 11 1981

O & G CONS. COMM.

COMPANY KERR-MCGEE CORPORATION
LEASE NAVAJO WELL NO. 26
SEC. 31, T. 36N, R. 30E
APACHE COUNTY, ARIZONA
LOCATION 2100' FSL 800' FWL
ELEVATION 8871 ungraded ground



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPER-
VISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

Fred B. Kerr Jr.
Fred B. Kerr Jr.

SEAL: Registered Land Surveyor,
#3950

SURVEYED December 4, 1980

FARMINGTON, N. M.



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 26
(WELL NAME)

located 2100' FROM SOUTH LINE & 800' FROM WEST LINE (NW/4 SW/4)

Section 31 Township 36 NORTH Range 30 EAST, APACHE County, Arizona.

The NW SW 1/4 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 11th day of March, 1981.

OIL AND GAS CONSERVATION COMMISSION

By [Signature]
EXECUTIVE SECRETARY

PRIOR TO BEING ALLOWED TO PRODUCE THIS WELL
YOU MUST BE IN FULL COMPLIANCE WITH RULE
105, SECTION A THRU G (Spec. G), WITH RESPECT
TO THE PRODUCT TO BE PRODUCED.

PERMIT No 720

RECEIPT NO. 2011
API NO. 02-001-20250

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

TEN FOOT SAMPLES ARE REQUIRED FROM SURFACE

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

720

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

CANCELLED

ACTIVE

Permits ~~DATE~~ 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: X0217
COMPANY NAME: KERR MCGEE CORPORATION

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

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

COMPANY SOLD TO: _____ EFFECTIVE DATE: _____

LEASES / AGREEMENTS AFFECTED: NAVAJO #26 (720) AZ OIL & GAS CONSERVATION COMMISSION
Dineh Bi Keyah Field - Apache County, Arizona JUN 8 1994
Lease #: 14-20-0603-8823 API #: 02001202500051

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

SIGNATURE: Judy Burkheart
DATE: 5/13/94

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

720

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 Burkhardt

Judy Burkhardt,
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

NEW MEXICO
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



KERR-McGEE CORPORATION

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

OIL AND GAS DIVISION

December 10, 1981

RECEIVED

DEC 17 1981

O & G CONS. COMM.

PHONE

806 359-0351

Handwritten initials and checkmarks:
UKA ✓
RAY ✓
RUB ✓
OB ✓

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

RE: Completion of Kerr-McGee Corporation's
Navajo Lease, Well No. 26, Dineh-Bi-
Keyah Field, Apache County, Arizona

Gentlemen:

Enclosed please find three (3) copies of Form No. 6, Potential
Test and Request for Allowable-Oil Wells, with attached lease plats,
Form No. 4, "Well Completion or Recompletion Report...", and copies
of FDC and CBL logs. Please return the extra copy of each enclosure
to this office in the enclosed envelope.

If you need any further information, please contact me at 806/
359-0351.

Sincerely,

KERR-McGEE CORPORATION

Handwritten signature: Brenda Hall

Brenda Hall
Engineering Assistant

BH/pjs
encl.

cc: The Navajo Tribe

Handwritten note:
2 forms rec'd 12-82 ohs



KERR-McGEE CORPORATION

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

OIL AND GAS DIVISION

December 16, 1981

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

RE: Reports for Kerr-McGee Corporation's
Navajo Lease Well #26
Apache County, Arizona

Gentlemen:

Enclosed find copies of Form 9-331, Sundry Notices and Reports
on wells for the above referenced well. This report covers the weeks
from October 28, 1981, to November 17, 1981.

If you need any further information, please call me at 806/359-0351.

Sincerely,

KERR-McGEE CORPORATION

Kelley Eisenberg

Kelley Eisenberg
Sr. Engineering Assistant
Southwest District - N.A.

KE/pjs
Enclosures

RECEIVED

DEC 18 1981

O & G CONS. COMM.

PHONE

806 359-0351

OK
RAY
AB
OS



KERR-McGEE CORPORATION

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

RECEIVED

DEC 18 1981

O & G CONS. COMM.

OIL AND GAS DIVISION

October 29, 1981

PHONE

806 359-0351

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

The Navajo Nation
Minerals Department
Attention: Mr. Akhtar Zaman
Window Rock, Arizona 86515

United States Department of the Interior
Geological Survey
Drawer 600
Farmington, New Mexico 87401

RE: Reports for Kerr-McGee Corporation's
Navajo Lease, Well No. 26
Apache County, Arizona

Gentlemen:

Enclosed find copies of Form 9-331, Sundry Notices and Reports on Wells,
for the above referenced well. This report covers the week from October 22, 1981
to October 28, 1981.
If you need any further information, please call me at 806/359-0351.

Sincerely,

KERR-McGEE CORPORATION

Kelley Eisenberg

Kelley Eisenberg
Sr. Engineering Assistant
Southwest District - N.A.

KE/clt
Enclosures

December 4, 1981

Ms. Kelley Eisenberg
Senior Engineering Assistant
Kerr-McGee Corporation
P.O. Box 250
Amarillo, Texas 79189

Re: Well Navajo 26, Permit 720
Dineh-bi-Keyah Field

Dear Ms. Eisenberg:

This letter is to inform you that this office has not received a status report (Sundry Report) on subject well since the October 15-21 report received on October 26.

Please give this matter your immediate attention. Thank you.

Today we received the well samples as shown on the attached list.

Sincerely,

Rudy A. Ybarra
Director
Enforcement Section

RAY:os
Att.

ILLINOIS CALIFORNIA EXPRESS, INC.

ICXS

PKU NUMBER

REFER TO THIS NUMBER

EQUIP. NUMBER	DATE	C	ICX REVENUE	ADVANCE	BEYOND	DESTINATION
TC 5215	12/01/81	ARR 011	25.10			

SHIPPER'S NUMBER/ROUTING INFO

OIL GAS COMMISSION
STATE OF AZ
1005 W JEFFERSON
PHOENIX, AZ

AMOUNT DUE ICX

PAY TO

ICX

AN EMPLOYEE OWNED COMPANY

ARRILLO SAMPLE CUT

1005 W JEFFERSON
PHOENIX, AZ

NO. PCS.	HM	DESCRIPTION OF ARTICLES AND MARKS	WEIGHT	RATE	TOTAL CHARGES
1		IX SAMPLES			25.10
1		BLD SAMPLES			1.70
2		FSC			25.10
		TOTAL			51.90
		ATTN WILLIAM E ALLEN			

U.C.C. REGULATIONS REQUIRE PAYMENT OF FREIGHT BILLS WITHIN 7 DAYS AFTER PRESENTATION.
RECEIVED THE ABOVE DESCRIBED PROPERTY IN GOOD CONDITION EXCEPT AS NOTED.

BY *R. J. Allen*

DATE DELIVERED: 12-4-81

TOTAL PIECES: 2

DRIVER'S SIGNATURE: *[Signature]*

CONSIGNEE COPY

Rex M^c Lee Samples
Received 12-4-81

P/W

719 25 Nov 440-4000
720 26 Nov 600-4470
721 27 Nov 1500-3990
722 6 Nov-88 440-4320
723 3 Nov-138 450-4100

Total of 12 boxes of samples

WA



KERR-McGEE CORPORATION

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

RECEIVED

MAY 20 1981

O & G CONS. COMM.

OIL AND GAS DIVISION

May 18, 1981

PHONE
806 359-0351

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

Attention: W. E. Allen

RE: Extensions on Permits to Drill Kerr-McGee's Navajo #25, #26, #27, #88-6, and #138-3, Apache County, Arizona

Gentlemen:

Kerr-McGee Corporation respectfully requests extensions on the Permits to Drill for the above referenced wells. An extension of six (6) months should be enough time to enable all five (5) wells to be drilled.

If you need any further information, please contact me at 806/359-0351.

Sincerely,

KERR-McGEE CORPORATION

Kelley Eisenberg

Kelley Eisenberg
Sr. Engineering Assistant
Southwest District - N. A.

KE/sm

APPROVED

OIL & GAS CONSERVATION COMMISSION
STATE OF ARIZONA

By W. E. Allen
Date 5-20-81

- 719
- 720 ✓
- 721
- 722
- 723

May 13, 1981

Kerr-McGee Corporation
P.O. Box 250
Amarillo, Texas 79189

Attention: Kelley Eisenberg

Re: Kerr-McGee Navajo 25
NE NW 31-36N-30E, Apache County
State Permit 719

Gentlemen:

This is to advise that the above referenced permit to drill will expire on May 26, 1981. Should you wish an extension of this permit, please advise before expiration.

Incidentally, you have been issued four other permits, numbers 720, 721, 722, and 723. These permits will expire on June 11, 1981. We would suggest you request an extension at this time on all five of the proposed wells.

Yours very truly,

W. E. Allen
Executive Secretary

WEA:os

March 11, 1981

Kerr-McGee Corporation
P.O. Box 250
Amarillo, Texas 79189

Attention: Kelley Eisenberg
Engineering Assistant

Gentlemen:

Enclosed are approved application to drill, permit to drill,
and receipt for the following:

✓ Permit 720, Kerr-McGee Navajo 26
Permit 721, Kerr-McGee Navajo 27
Permit 722, Kerr-McGee Navajo 88-6
Permit 723, Kerr-McGee Navajo 138-3

Yours truly,

W. E. Alien
Executive Secretary

OS
Enc.



KERR-McGEE CORPORATION

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

RECEIVED

MAR 11 1981

O & G CONS. COMM.

OIL AND GAS DIVISION

PHONE
806 359-0351

February 26, 1981

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

Re: Kerr-McGee Corporation's Application
for a Permit to Drill the Navajo Lease,
Well No. 26 , Dineh-bi-Keyah Field,
Apache County, Arizona

Gentlemen:

Enclosed please find in duplicate, Form No. 3, Application for a Permit to Drill, and two (2) copies of the surveyors plat for the above referenced well. Also enclosed is a check for twenty-five dollars (\$25.00) to cover the filing fee for the well.

If you need any further information, please contact me at 806-359-0351.

Sincerely,

KERR-McGEE CORPORATION

Kelley Eisenberg

Kelley Eisenberg
Engineering Assistant
Southwest District - N.A.

KE/cw
Enc.

720