

KERR-McGEE ~~XXXX~~ 27 *raw.* 721
NE SE 31-36N-30E APACHE CO.

COUNTY APACHE AREA 13.5 mi. SW Red Rock LEASE NO. 14-20-0603-8823

(5-144) Mtn. States Petroleum Dineh-bi-Keyah

WELL NAME Kerr-McGee 27 Law

LOCATION NE SE SEC 31 TWP 36N RANGE 30E FOOTAGE 2260' FSL, 600' FEL
ELEV 8545 GR 8554 KB SPUD DATE 7-13-81 STATUS Oil Producing TOTAL DEPTH 4015
COMP. DATE 8-26-81

CONTRACTOR Brinkerhoff Signal, Inc.

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
				DRILLED BY CABLE TOOL
				PRODUCTIVE RESERVOIR
				INITIAL PRODUCTION

Formation	Top	Bottom	L.	REMARKS
Cocanino	1537'	3344'		
<i>Perm</i> Hermosa	3344'	3802'		
Black Shale	3802'	3830'		
Intrusive	3830'	3961'		
Base	3961'	TD		

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
<u>Comp. Fr. Density</u>			SAMPLE DESCRP.
			SAMPLE NO. <u>1826</u>
			CORE ANALYSIS
			DSTs
			<u>1500-3990</u>
REMARKS			APP. TO PLUG
			PLUGGING REP.
			COMP. REPORT

WATER WELL ACCEPTED BY _____

BOND CO. Firemen's Ins. Co. of Newark, N.J. *file in 723* BOND NO. BND-188 98 10-528
 DATE 9-12-73

BOND AMT. \$25,000 CANCELLED 12/1/57 ORGANIZATION REPORT x

FILING RECEIPT 2012 LOC. PLAT x WELL BOOK x PLAT BOOK x

API NO. 02-001-20251 DATE ISSUED 3-11-81 DEDICATION NE SE 1/4

PERMIT NUMBER 721

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

New Well Work-Over Deepen Plug Back Same Reservoir Different Reservoir Oil Gas Dry

DESCRIPTION OF WELL AND LEASE

Operator Kerr-McGee Corporation		Address P.O. Box 250 Amarillo, TX 79189	
Federal, State or Indian Lease Number or name of lessor if fee lease Navajo #14-20-0603-8823		Well Number 27	Field & Reservoir Dineh-Bi-Keyah
Location 600' FEL & 2260' FSL NE/4 SE/4		County Apache	RECEIVED SEP 14 1981
Sec. TWP-Range or Block & Survey Sec. 31, T-36-N, R-30-E		O & G CONS. COMM.	
Date spudded 7-13-81	Date total depth reached 8-07-81	Date completed, ready to produce 8-26-81	Elevation (DE, RKB, RT or Gr.) RKB 8554 feet
Elevation of casing hd. flange 8542 feet			
Total depth 4015'	F.B.T.D. 4000	Single, dual or triple completion? Single	If this is a dual or triple completion, furnish separate report for each completion. N/A
Producing interval (s) for this completion 3836'-3956', Intrusive sill		Rotary tools used (interval) All (0-4100')	Cable tools used (interval) None
Was this well directionally drilled? NO	Was directional survey made? Yes	Was copy of directional survey filed? No	Date filed N/A
Type of electrical or other logs run (check logs filed with the commission) CFDL, GR, CCL, CBL			Date filed 9-11-81

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Surface	12 1/4"	8 5/8"	24#/ft.	448'	315 SX CL."B"	none
Production	7 7/8"	5 1/2"	15.5#/ft.	4015'	250 SX CL."H"	none

TUBING RECORD **None**

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
2 7/8 in.	3970 ft.	none ft.	in.	ft.	ft.		

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval
2	22 gram SSB II	3836'-3956'	Perf & fracture, 1148 bbls gelled lease crude	3836'-3956'

INITIAL PRODUCTION & 45 m# 10/20 sd.

Date of first production 8-26-81	Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump): pumping; 2 1/2" x 2" x 20' top hold down					
Date of test 8-30-81	Hrs. tested 24	Choke size none	Oil prod. during test 236 bbls.	Gas prod. during test 23.6 MCF	Water prod. during test 7 bbls.	Oil gravity 39.5° API (Corr)
Tubing pressure 0	Casing pressure 0	Cal'd rate of Pro-duction per 24 hrs.	Oil 236 bbls.	Gas 23.6 MCF	Water 7 bbls.	Gas-oil ratio 100:1

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 Sr. 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.

September 11, 1981
Date

Kelley Eisenberg
Signature Kelley Eisenberg

Permit No. **721**
723

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

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
Cocanino	1537'	3344'	
Hermosa	3344'	3802'	
Black Shale	3802'	3830'	
Intrusive	3830'	3961'	
Base	3961'	TD	

2 FEB 19 1981
 RECEIVED

* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.
 This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.

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

Federal, State or Indian Lease Number, or lessor's name if fee lease <u>14-20-0603-8823</u>	Field <u>Dineh-BI-Keyah</u>	Reservoir <u>Hermosa</u>
Survey or Sec-Twp-Rge <u>Sec29, 30, 31, 32 T-36N-R30E</u>	County <u>Apache</u>	State <u>AZ</u>
Operator <u>Mountain States Petroleum Corp.</u>		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street <u>P O Bx 1936</u>	City <u>Roswell,</u>	State <u>New Mexico 88202</u>
Above named operator authorizes (name of transporter)		
<u>Giant Industries</u> Transporter's street address <u>P O Bx 12999</u>	City <u>Scottsdale,</u>	State <u>AZ</u>
Field address <u>P O Bx 256 (Bloomfield Hwy) Farmington, N M 87499</u>		
Oil, condensate, gas well gas, casinghead gas		
To transport	<u>100 % of the</u>	<u>oil</u> from said lease.
OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:		
Name of gatherer	% transported	Product transported
Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change.		
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 Ruby Wickersham
Signature

Date approved: AUG 16 1995
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By: Steven L. Rainey
Permit No. 721

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

OPERATOR'S CERTIFICATE OF COMPLIANCE AND AUTHORIZATION 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.

8/18/92
Date

H.H. Rice
Signature **H.H. Rice**

Date approved: 8-21-92

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By: Steven L. Rainz

Permit No. _____

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

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate
(Other instructions
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL GAS WELL OTHER **CONSERVATION COMMISSION**

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

3. ADDRESS OF OPERATOR **U.S. Onshore Region, Box 25861, Oklahoma City, OK 73125**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface **NE SE 600' FEL & 2260' FSL**

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

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

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME **Navajo**

9. WELL NO. **27** *State permit # 721*

10. FIELD AND POOL, OR WILDCAT **Dineh-Bi-Keyah**

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

12. COUNTY OR PARISH **Apache**

13. STATE **AZ**

14. PERMIT NO. **723 AZ 721**

15. ELEVATIONS (Show whether DF, RT, GR, etc.) **8554' RKB**

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PLUG OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

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

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

5-10-89 Pumped 4000 gals EDTA @ 3.5 BPM, well on vacuum. Pumped 3650 gals lease crude, flush @ 3.5 BPM. Pressure increased to 250 psi at tailend of flush. ISIP 20 psi, 1 min well on vacuum. Max. rate 3.7 BPM, avg rate 3.5 BPM, max pressure 250 psi, avg pressure 0 psi.

5-24-89 Pump test well: 10 BOPD + 0 BWPD

xc: State of Arizona
Oil & Gas Conservation Commission
Suite 190
3110 N. 19th Ave.
Phoenix, AZ 85015

I. Geddie/CFR
CAR/WRF
HHR

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

SIGNED G. Bunas TITLE Analyst II DATE 5-26-89

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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 checked="" 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.)*

10/22/81 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. PBTd 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

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL IF ANY:

720

RECEIVED
NOV 2 1981

Form Approved by G. CONS. COMM.
Budget Bureau No. 42-1174

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

AKS
PS

POTENTIAL TEST AND REQUEST FOR ALLOWABLE - OIL WELLS

DESIGNATE TYPE OF COMPLETION:

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

Other Reason For Filing:

RECEIVED

SEP 14 1981

Operator

Kerr-McGee Corporation

Address

P.O. Box 250 Amarillo, Texas 79189

O & G CONS. COMM.

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or Lessor's Name if Fee Lease	Well Name	County
Navajo 14-2006-03-8823	Navajo No. 27	Apache

Footage Location

600' FEL & 2260' FSL (NE/4 SE/4)

Sec. Twp. Rge.

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

Date spudded	Date completed, ready to produce	Total depth	P.B.T.D.
7-13-81	8-26-81	4015'	4000'
Field and reservoir	Top of pay	Producing interval	
Dineh-Bi-Keyah	3830'	3836' - 3956'	

TEST DATA

Date of first production	Date of test	Length of test	Producing method (flow pump, gas lift)	Amount of load oil injected if any.
8-26-81	8-30-81	24 hrs.	pump	1148 bbls
Number of barrels of oil produced from completion or recompletion date to test date		If well is produced by pumping, give pump size, length of stroke and strokes per minute.		
83 bbls plus 1148 bbls frac load		2 1/2" x 2" x 20", 100" stroke; 75 SPM		
Tubing pressure	Casing pressure	Choke size		
0	0	none		
*Actual production during test:	Oil (bbls)	Water (bbls)	Gas (MCF)	
	236	7	23.6	

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

Gas-oil ratio	Oil gravity	Name of transporter of oil
100 MCF/bbl.	39.5 * A.P.I. corrected	Kerr-McGee Corp.

Number of acres attributed to this well	Number of producing wells in this reservoir on this lease, including this well	Single, dual or triple completion?	Daily allowable requested (bbls)
40 ac.	19	Single	236 BPD

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 Sr. 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.

September 11, 1981

Date

Kelley Eisenberg
Signature Kelley Eisenberg

Witnessed by: _____ Organization _____
Signature _____
Date _____

Permit No. 721

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Potential Test & Request for Allowable—Oil Wells

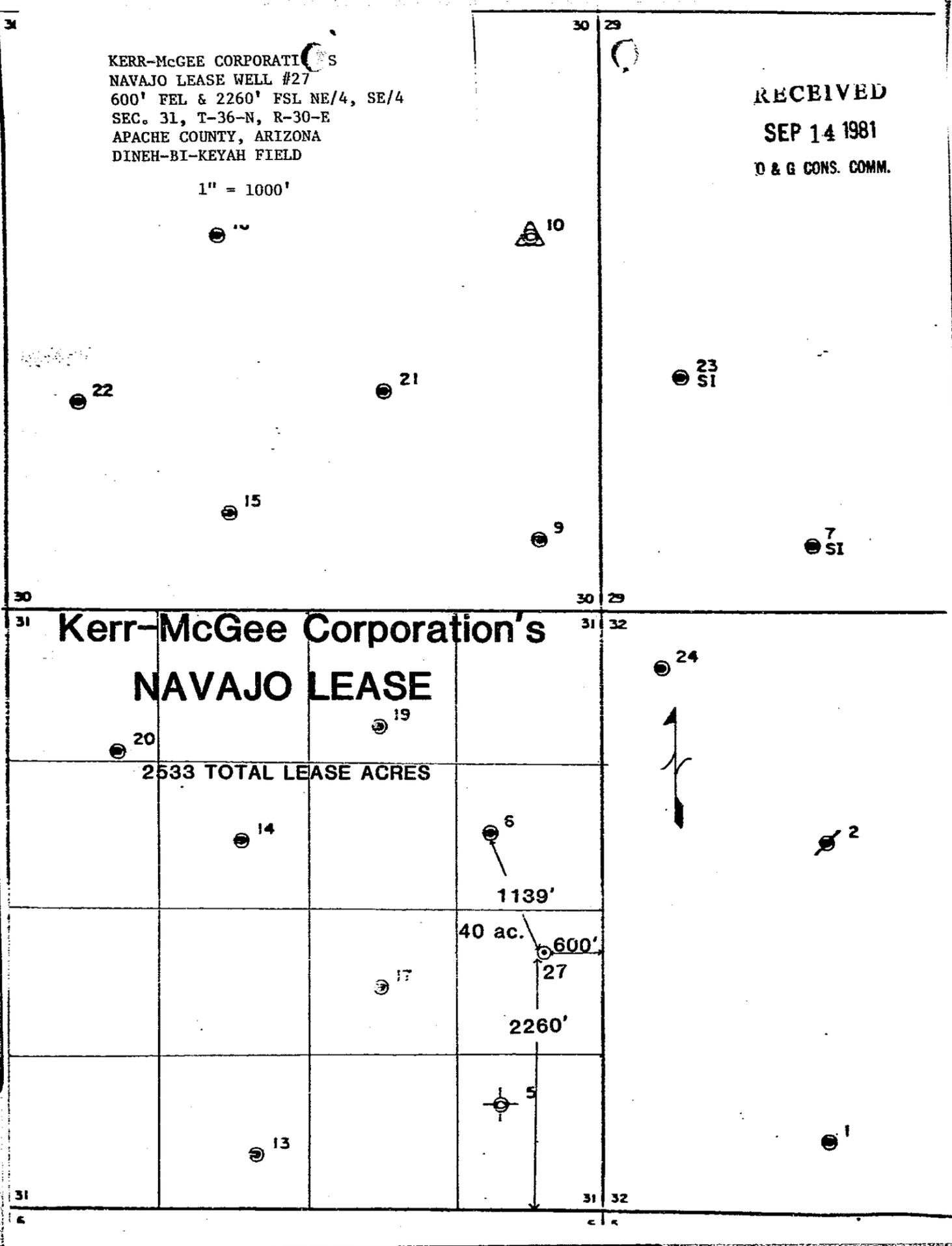
File One Copy

Form No. 6

KERR-McGEE CORPORATION'S
NAVAJO LEASE WELL #27
600' FEL & 2260' FSL NE/4, SE/4
SEC. 31, T-36-N, R-30-E
APACHE COUNTY, ARIZONA
DINEH-BI-KEYAH FIELD

1" = 1000'

RECEIVED
SEP 14 1981
D & G CONS. COMM.



Form 9-331
Dec. 1973

RECEIVED
SEP 1981

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

O & G CONS.

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well gas well other

2. NAME OF OPERATOR
Kerr-McGee Corporation

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

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2260' FSL & 600' FEL (NE/4 SE/4)
AT TOP PROD. INTERVAL: 2260' FSL & 600' FEL
AT TOTAL DEPTH: 2260' FSL & 600' FEL

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) Well Status Report (Completion) <input checked="" type="checkbox"/>	

5. FARM OR LEASE NAME
Navajo #14-20-0603-8823

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
None

8. FARM OR LEASE NAME
Navajo

9. WELL NO.
27

10. FIELD OR WILDCAT NAME
Dineh-Bi-Keyah

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

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

14. API NO.
02-001-20251

15. ELEVATIONS (SHOW DF, KDB, AND WD)
8542' GL; 8554' KB

(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.)*

8-27-81 and
8-28-81 Pumping back frac load.
8-29-81 100% of load recovered.
8-30-81 -
9-02-81 Testing well.

(Commission test 8-30-81)

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 September 4, 1981
Kelley Eisenberg

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

721

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well gas well other

2. NAME OF OPERATOR
Kerr-McGee Corporation

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

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2260' FSL & 600' FEL (NE/4 SE/4)
AT TOP PROD. INTERVAL: 2260' FSL & 600' FEL
AT TOTAL DEPTH: 2260' FSL & 600' FEL

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) Well Status Report <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
None

8. FARM OR LEASE NAME
Navajo

9. WELL NO.
27

10. FIELD OR WILDCAT NAME
Dineh-bi-Kevah

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

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

14. API NO.
02-001-20251

15. ELEVATIONS (SHOW DF, KDB, AND WD)
8542' GL; 8554' KB

RECEIVED
SEP 15 1981

O & G CONS. COMM.

(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.)

- 8-20-81 SI pres 50 psi. TOOH w/bomb from 3896 RKB. Min pres 361 psi. Max buildup 393 psi BHP. Fluid grad 310. Fl @ 2677. TIH w/3 1/2" Sd pump & clean fr 3974' to 4000' RKB PBTD. Swab
- 8-21-81 Swab. Rec 179 bb1. TIH w/1 jt 2 7/8", 8rd, EUE OE. SN & 129 jts: 2 7/8", 8rd, tbg. TIH w/1-2 7/8" 6' sub. Remove BOP. Install Larken 2000# 5 1/2" x 2 7/8" tbg ahead. Bottom jt @ 3970', SN @ 3938', TD @ 4000'. TOP perf @ 3836', Bottom perf @ 3956. RKB
- 8-22-81 TIH W/2 1/2" x 2" x 20' top hold down pump, 156 Grade C 3/4" x 25' rods, 2 - 3/4" x 8' pony rods. RDPU
- 8-23-81 No work
- 8-24-81 MI & set American 320 pumping unit
- 8-25-81 HU well head & tie in to flow line. Set Sargent size 4 Econopack
- 8-26-81 Set unit @ 100" stroke, 75 SPM, FL @ 1953'. 2 hr test 33 BO & OBQ

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 August 28, 1981
Kelley Eisenberg
(This space for Federal or State office use)

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

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AUG 28 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 79189

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2260' FSL & 600' FEL (NE/4 SE/4)
AT TOP PROD. INTERVAL: 2260' FSL & 600' FEL
AT TOTAL DEPTH: 2260' FSL & 600' FEL

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) Well Status Report <input type="checkbox"/>	

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
None

8. FARM OR LEASE NAME
Navajo

9. WELL NO.
27

10. FIELD OR WILDCAT NAME
Dineh-Bi-Keyah

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

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

14. API NO.
02-001-20251

15. ELEVATIONS (SHOW DF, KDB, AND WD)
8542' GL; 8554' KB

(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.)*

8-13-81 Drill out cmt. to 4000' PBD RKB

8-14-81 RU Wellex & perf. Hermosa from 3836' to 3956' RKB w/SSB 22 g. (281 shots @ 2 spf)

8-15-81 WO frac. equip.

8-16-81 SDO Sun.

8-17-81 RU Western. Load hole w/91 bbls. treated lease oil. Frac well as follows:
w/49,182 gal. Maxi oil 74 + 45000# 10/20 sand:
Pump 9996 gal Maxi Oil 74 pad @ 50 BPM & 0 to 900 psi.
Pump 10,000 gal. Maxi Oil 74 w/1 PPG 10/20 sd @ 50 BPM & 500 to 600 psi
Pump 3822 gal. Maxi Oil 74 w/2 PPG 10/20 sd @ 50 BPM & 500 psi. Rate dropped to 20 BPM & 150 psi. Rate inc. to 25 BPM & started next stage.
Pump 16,044 gal. Maxi Oil 74 w/3 PPG 10/20 sd @ 25 BPM & 0 to 100 psi.
Pump 1800 gal. treated lease crude as flush @ 15 BPM @ 0-15 psi.

RU Wellex & ran temp. surv. sd @ 3910' RKB

8-18-81 Shot F.L. @ 600'. Clean out sand to 4000' RKB. Swab

8-19-81 Swab. TIH w/900 # pres. bomb. Hung bomb @ 3896'.

SIGNED: Kelley Aisenberg

(This space for Federal or State office use)

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

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Form 9-331
Dec. 1973

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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 79189

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2260' FSL & 600' FEL (NE/4 SE/4)
AT TOP PROD. INTERVAL: 2260' FSL & 600' FEL
AT TOTAL DEPTH: 2260' FSL & 600' FEL

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) drilling, logs, csg	<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
None

8. FARM OR LEASE NAME
Navajo

9. WELL NO.
27

10. FIELD OR WILDCAT NAME
Dineh-Bi-Keyah

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

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

14. API NO.
02-001-20251

15. ELEVATIONS (SHOW DF, KDB, AND WD)
G.L. 8542', K.B. 8554'

(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.)*

- 8-6-81 Stuck in hole
- 8-7-81 Drld from 3951' to 4015', Form. sh., Drld. 64', mud.wt. 9.0, Bit #5 in @ 3951', ST&C 7 7/8", F-2. TOH, Circ. for logs, RU Schlum, TIH to cond. for csng
- 8-8-81 Run 98 jts 5 1/2", 15.5#, K-55 csg. Cnt w/250 sx Cl. "H". Release rig @ 9:00 PM 8-8-81
- 8-9-81 RD & MORT
- 8-10-81 Welded 5 1/2" bell csg nipple. MI pulling unit
- 8-11-81 Install BOP. RU Welex. Ran GR-CBL-CCL. Tag bottom @ 3965'. Logged fr. 3965' to 2500'. TOC @ 3048.
- 8-12-81 Test csg to 3000 psi. Loading to frac.

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

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

SIGNED Kelley Eisenberg TITLE Sr. Engineering Ass't DATE Aug. 14, 1981
Kelley Eisenberg (This space for Federal or State office use)

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

72

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AUG 13 1981

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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 79189

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2260' FSL & 600' FEL (NE/4 SE/4)
AT TOP PROD. INTERVAL: 2260' FSL & 600' FEL
AT TOTAL DEPTH: 2260' FSL & 600' FEL

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) Well Status Report <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
None

8. FARM OR LEASE NAME
Navajo

9. WELL NO.
27

10. FIELD OR WILDCAT NAME
Dineh-Bi-Keyah

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

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

14. API NO.
02-001-20251

15. ELEVATIONS (SHOW OF, KDB, AND WD)
8542' GL; 8554' KB

(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.)*

7-30-81 - 8-06-81 Fishing for stuck pipe.

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 August 10, 1981

(This space for Federal or State office use)

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

721

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Form 9-331
Dec. 1973

Form Approved
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well gas well other

2. NAME OF OPERATOR
Kerr-McGee Corporation

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

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2260' FSL & 600' FEL (NE/4 SE/4)
AT TOP PROD. INTERVAL: 2260' FSL & 600' FEL
AT TOTAL DEPTH: 2260' FSL & 600' FEL

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) Drilling	<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
None

8. FARM OR LEASE NAME
Navajo

9. WELL NO.
27

10. FIELD OR WILDCAT NAME
Dineh-Bi-Keyah

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

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

14. API NO.
02-001-20251

15. ELEVATIONS (SHOW DF, KDB, AND WD)
8542' GL & 8554' KB

(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.)*

7-23-81 Drld from 2895' to 3140', form. Sh & Lm, Drld 245'. Mud wt. 9.1

7-24-81 Drld from 3140' to 3366', form. Sh & Lm, Drld 226'. Mud wt. 9.1

7-25-81 Drld from 3366' to 3587', form. Sh & Lm, Drld 221'. Mud wt. 9.2

7-26-81 Drld from 3587' to 3760', form. Sh & Lm, Drld 173'. Mud wt. 9.1
Bit #4 in at 3587'. HTC 7-7/8", J22

7-27-81 Drld from 3760' to 3951', form. Sh & Lm. Drld 191'. Mud wt. 9.2
Lost circ @ 3951'

7-28-81 No drlg. Work on stuck fish

7-29-81 No drlg. TOH w/bit & DP. Work on stuck fish.

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

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

SIGNED Kelley Eisenberg TITLE St. Engineering Ass't DATE July 31, 1981
Kelley Eisenberg

(This space for Federal or State office use)

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

721

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JUL 27 1981

Form 9-331
Dec. 1973

Form Approved
Budget Bureau No. 42-R1424

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well gas well other

2. NAME OF OPERATOR
Kerr-McGee Corporation

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

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2260' FSL & 600' FEL (NE/4 SE/4)
AT TOP PROD. INTERVAL: 2260' FSL & 600' FEL
AT TOTAL DEPTH: 2260' FSL & 600' FEL

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>drilling</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
None

8. FARM OR LEASE NAME
Navajo

9. WELL NO.
27

10. FIELD OR WILDCAT NAME
Dineh-Bi-Keyah

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

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

14. API NO.
02-001-20251

15. ELEVATIONS (SHOW DF, KDB, AND WD)
GL 8542'; KB 8554'

(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.)*

- 7/16/81 Drld from 647' to 940'; Form. Sh.; Drld. 293'; Mud wt 8.5. Lost circ in 2' and 4' void areas; Pump mud w/LCM. No returns.
- 7/17/81 Drld from 940' to 1157'; Form. Sh.; Drld. 217'; Mud wt. 8.5. Dry drld from 940' to 1060'. RU Western Drlg Serv Compressor. Air drld to 1157'. No returns. Mix mud & LCM.
- 7/18/81 Drld from 1157' to 1702'; Form. Sh.; Drld 545'; Mud wt. 8.7. Drld w/air & mud; 75% returns.
- 7/19/81 Drld from 1702' to 2115'; Form. Sh.; Drld 413'; Mud wt. 9.0. Full returns.
- 7/20/81 Drld from 2115' to 2362'; Form. Sh.; Drld 245'; Mud wt. 9.1.
- 7/21/81 Drld from 2362' to 2640'; Form. Sh.; Drld 278'; Mud wt. 9.2.
- 7/22/81 Drld from 2640' to 2895'; Form. Sh. & Lm.; Drld. 255'; Mud wt. 9.1.

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

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

SIGNED Kelley Eisenberg TITLE Sr. Engineering Ass't DATE 24 July 1981
Kelley Eisenberg

(This space for Federal or State office use)

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

721

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JUL 20 1981

Form 9-331
Dec. 1973

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Budget Bureau No. 42-0114-01-4 COMM.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well gas well other

2. NAME OF OPERATOR
Kerr-McGee Corporation

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

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2260' FSL & 600' FEL (NE/4 SE/4)
AT TOP PROD. INTERVAL: 2260' FSL & 600' FEL
AT TOTAL DEPTH: 2260' FSL & 600' FEL

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) spud, run surf. csg & drilling

5. LEASE
Navajo 14-20-0603-8823

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
None

8. FARM OR LEASE NAME
Navajo

9. WELL NO.
27

10. FIELD OR WILDCAT NAME
Dineh-Bi-Keyah

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

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

14. API NO.
02-001-20251

15. ELEVATIONS (SHOW DF, KDB, AND WD)
8545' ungraded GL

(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.)*

7/13/81 Spud @ 5 p.m. 7/13/81; Drld. 388'; Form. SD&BOL; Mud wt. 8.5
Bit #1, STC, 12 1/4" DGB.

7/14/81 Drld. from 388' to 448'; Form. SD & Red Bed; Drld. 60'; Mud Wt. 8.6
Ran 11 jts. 8 5/8", 24#/ft., K-55, ST&C, w/GS @ 447', IF @ 404'
Cmt w/ 315 sx: Cl. "B" w/2% CaCl & 1/4#/sk Florele.
Disp. w/27 bbl. F.W. Circ. cmt to surf

7/15/81 Drld from 488' to 647'; Form SH; Drld. 199'; Mud Wt. 8.5
Install 8 5/8 x 5 1/2 csg. Head. Set in & NU BOP. Tag cmt @ 394'
in csg. Lost circ @ 602. Regain circ & drl. Lost circ. @ 647'.

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. Asst. DATE July 16, 1981
Kelley Eisenberg

(This space for federal or State office use)

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

721

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

2. NAME OF OPERATOR
 Kerr-McGee Corporation

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State regulations.)
 At surface: 2260' FSL & 600' FEL
 At proposed prod. zone: 2260' FSL & 600' FEL

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.
 21

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

11. SEC., T., R., M., OR S.E. 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 drig. unit line, if any)
 600'

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.
 1139'

19. PROPOSED DEPTH
 4000'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 8545' ungraded ground

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

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

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	
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	4000'	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
 - B. Ten-Point Compliance Program
 - C. Blowout Preventer Diagram
 - 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
 - H. Drill Rig & Production Facilities Layout.
 - I. Archaeology Report
 - J. Rehabilitation Plan

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
 JUN 02 1981
 James F. Sims
 DISTRICT ENGINEER

*See Instructions On Reverse Side

721

Arizona OCC

COMPANY KERR-McGEE CORPORATION

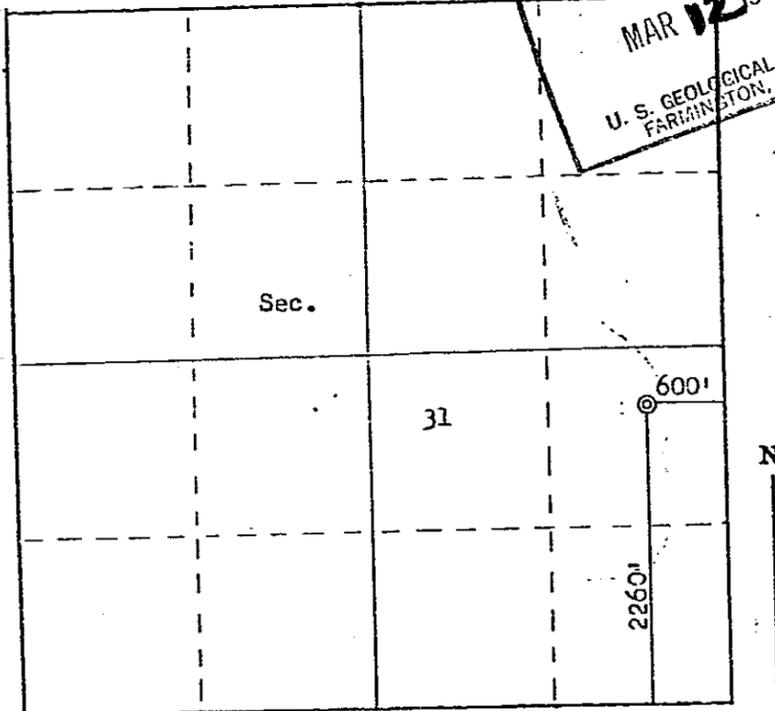
LEASE NAVAJO WELL NO. 27

SEC. 31, T. 36N, R. 30E
APACHE COUNTY, ARIZONA

LOCATION 2260' FSL 600' FEL

ELEVATION 8545 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: Registered Land Surveyor.

#3950

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	1495'
Hermosa	3320'
Black Shale	3765'
Intrusive	3775'

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

Intrusive	3775'	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.

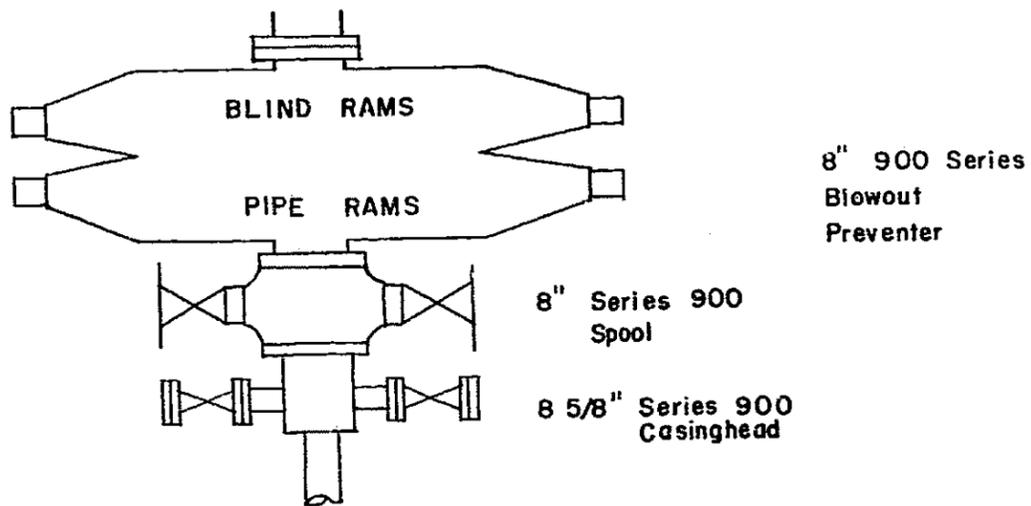
No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

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



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

KERR-MCGEE CORPORATION

EXHIBIT "D"

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

Attached to Form 9-331C
Kerr-McGee Corporation
Navajo #27
Sec. 31, T36N, R30E
NE SE 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. 27 is located approximately 1.75 miles S 30° 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 265 feet of access road as you leave the existing graded road will be 18'.
- (2) The grade will be ten to twelve percent (10-12%).
- (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 one.
- 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 eighteen.
- G. The number of shut-in wells is one.
- 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: eighteen 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

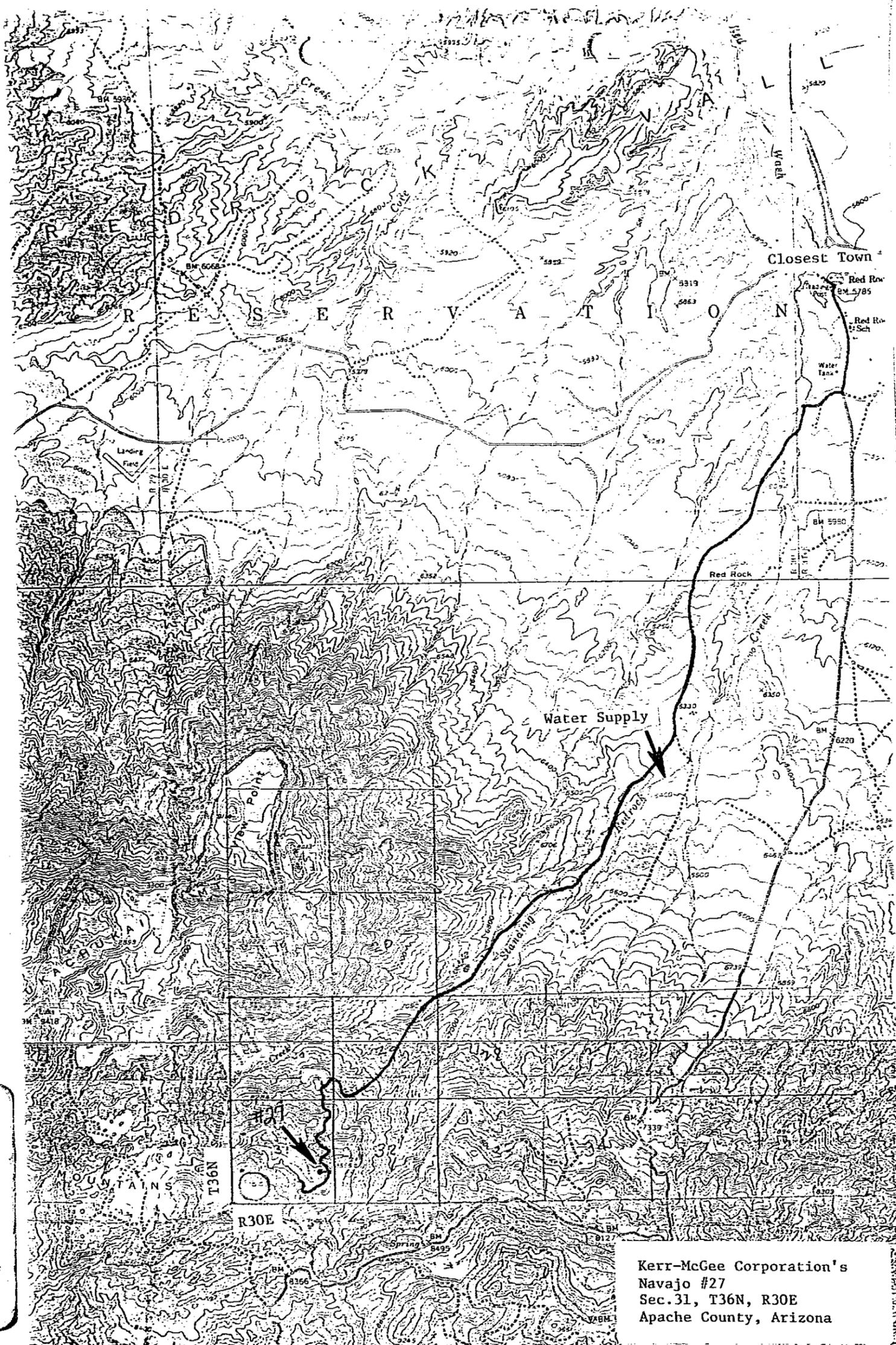
13. Certification

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.

3/9/81
Date

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

CAR/sm



Kerr-McGee Corporation's
 Navajo #27
 Sec. 31, T36N, R30E
 Apache County, Arizona

LEGEND
 — Oil Road
 — Graded Road

EXHIBIT "E"
 Access Road Map
 onto Location

Kerr-McGee Corporation's
Navajo #27
Sec. 31, T36N, R30E
Apache County, Arizona

EXHIBIT "E"
Access Road Map
onto Location

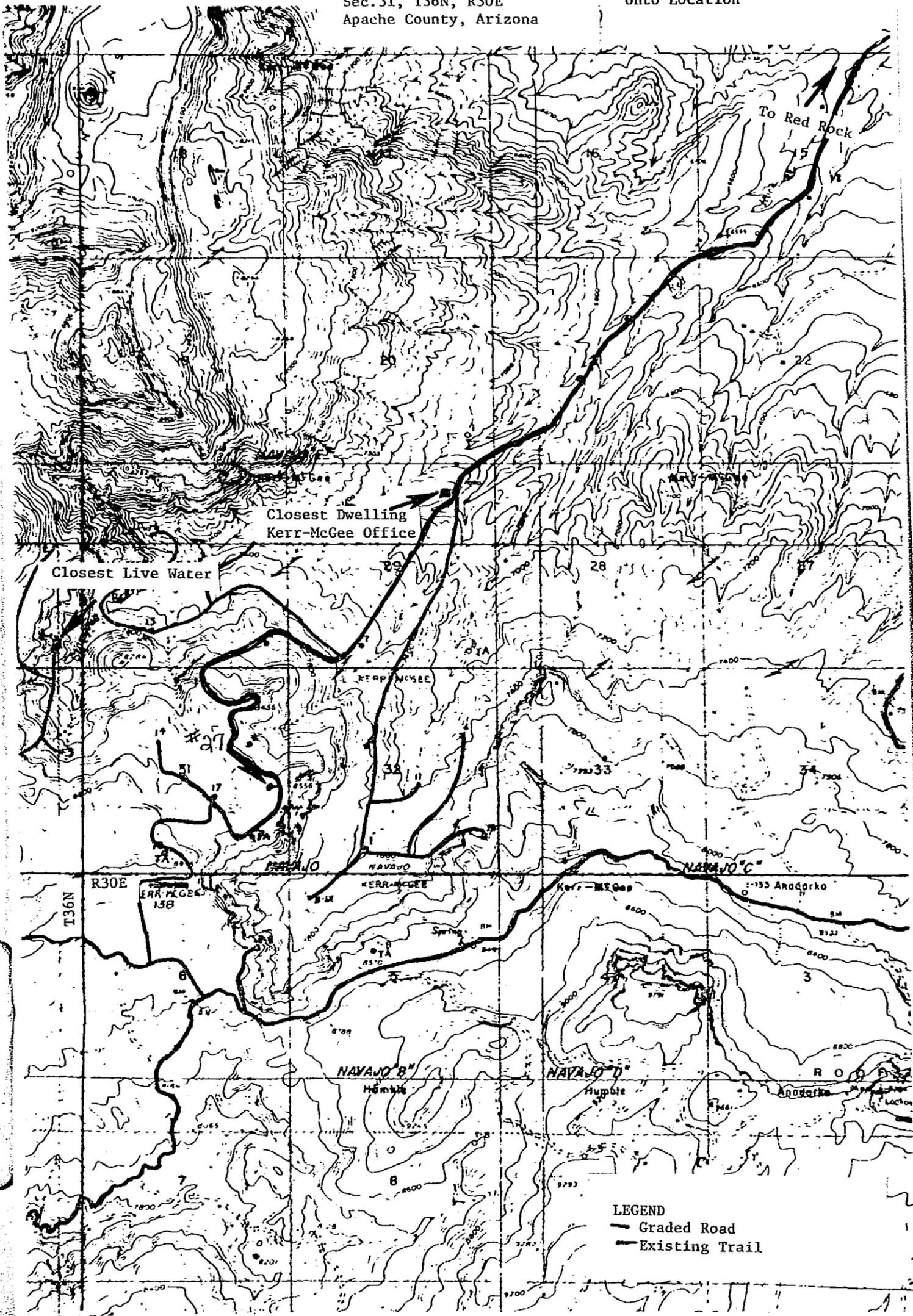
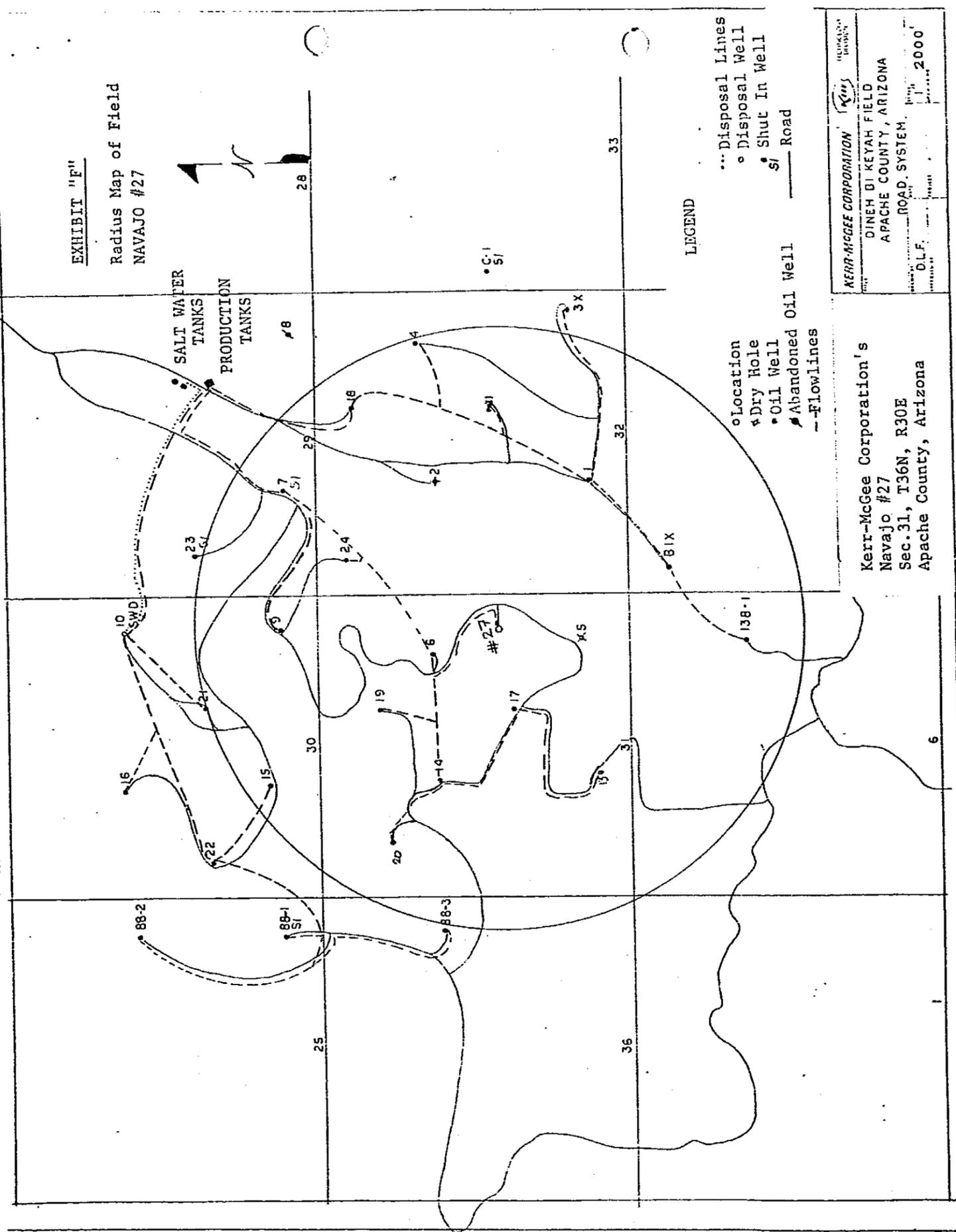


EXHIBIT "F"

Radius Map of Field
NAVAJO #27



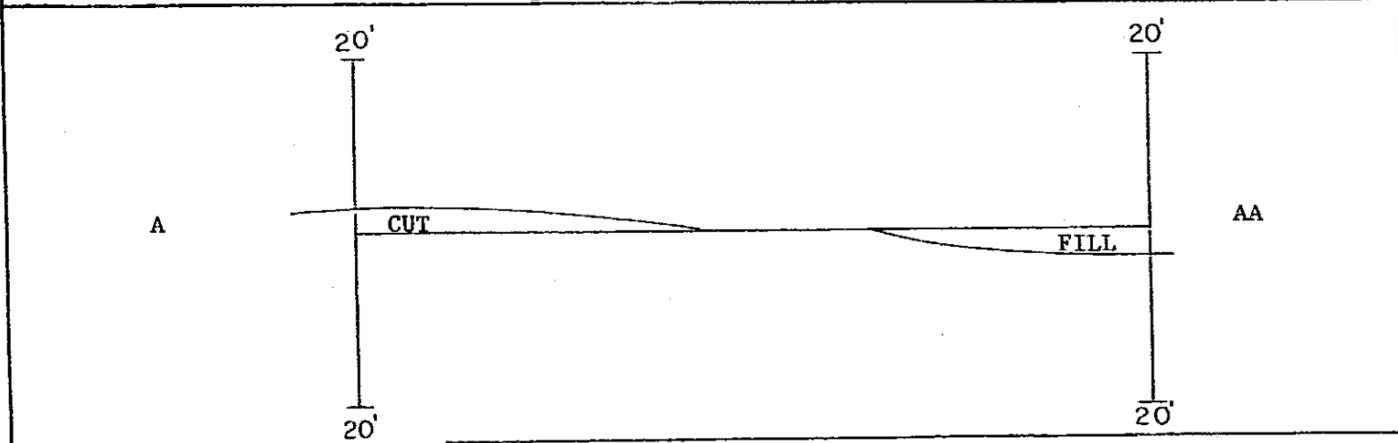
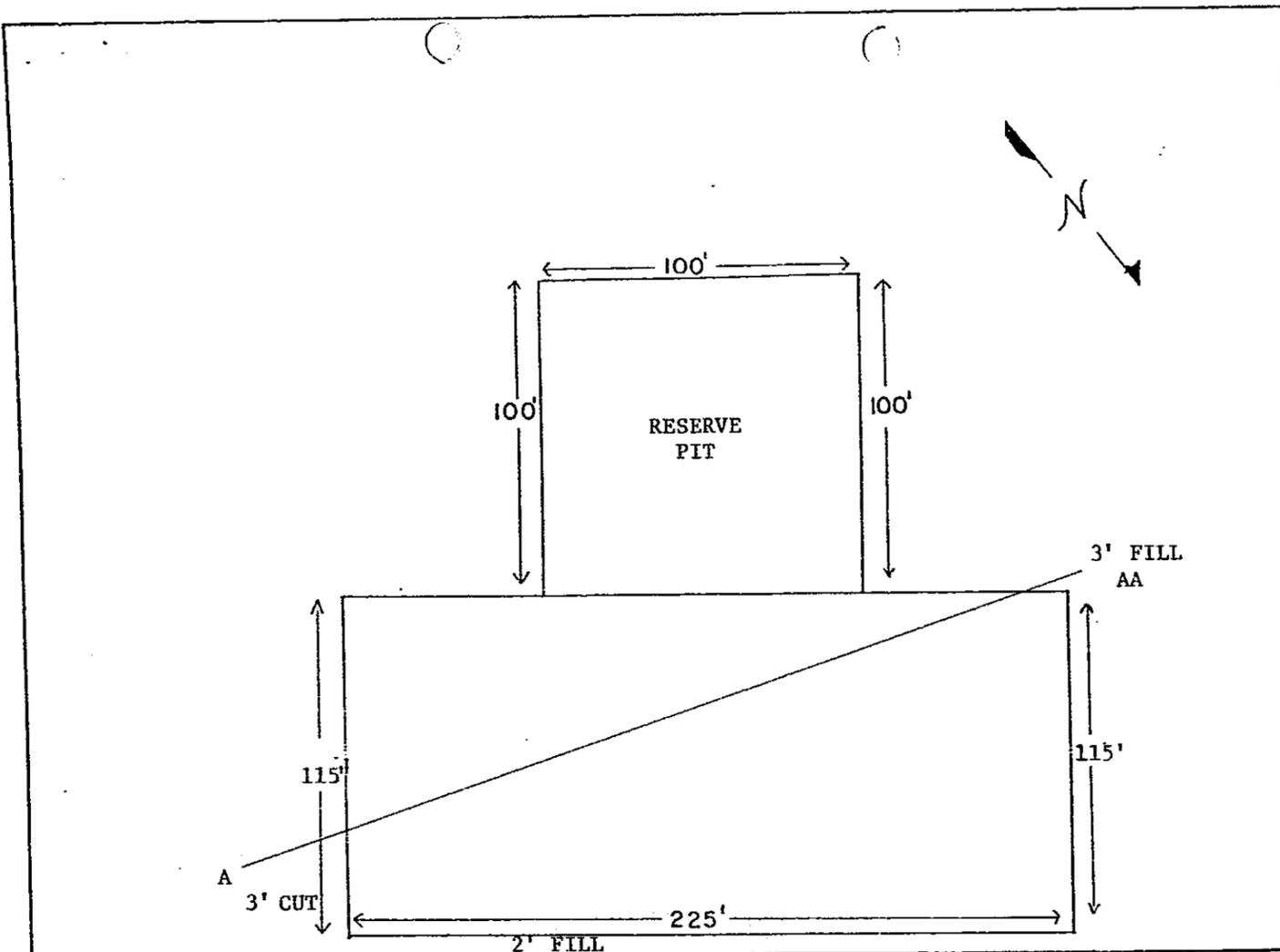
LEGEND

- Disposal Lines
- o Disposal Well
- o Shut In Well
- Road

- o Location
- o Dry Hole
- o Oil Well
- o Abandoned Oil Well
- Flowlines

KERR-McGEE CORPORATION
DINEH BI KEYAH FIELD
APACHE COUNTY, ARIZONA
ROAD SYSTEM
D.L.F.
1" = 2000'

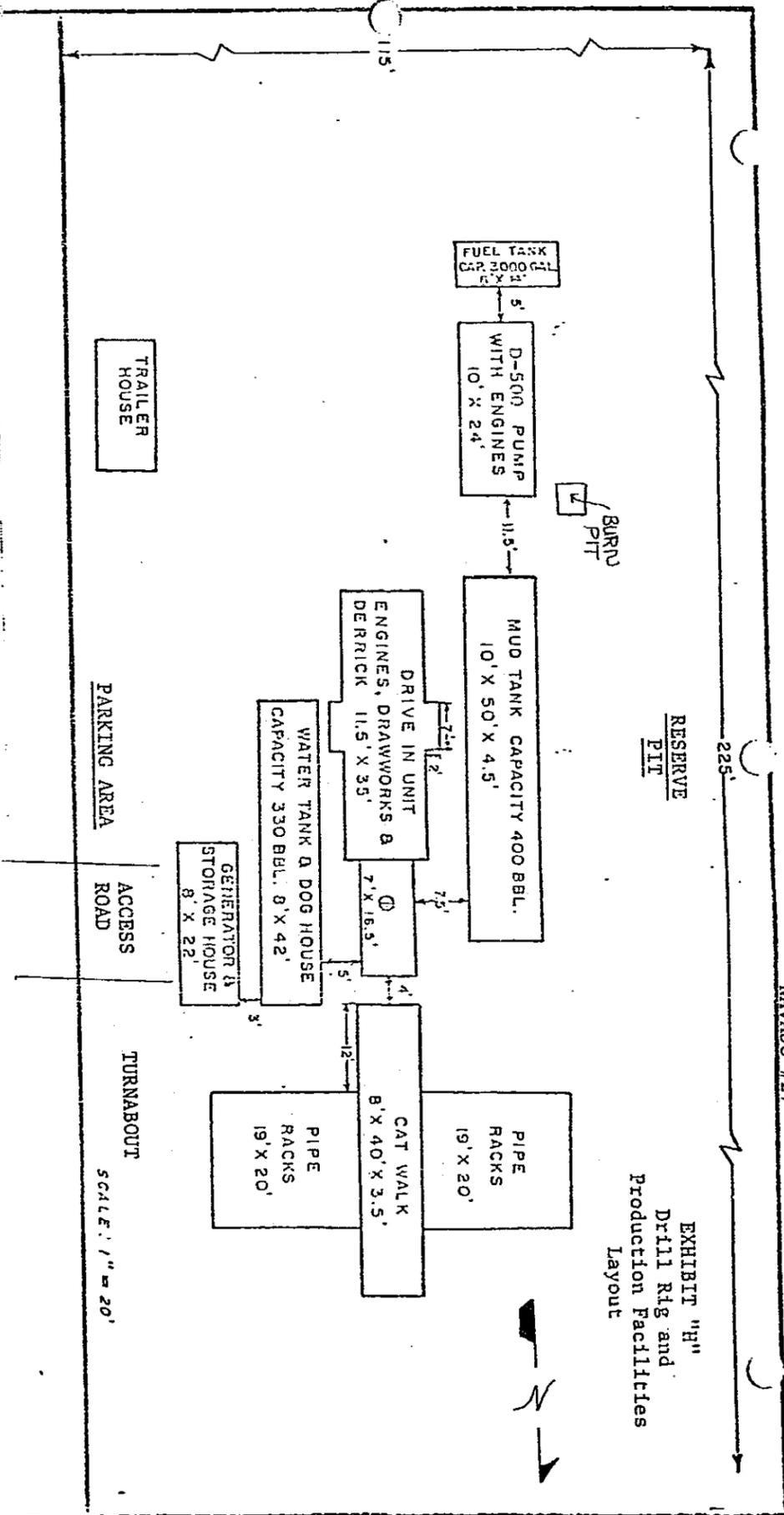
Kerr-McGee Corporation's
Navajo #27
Sec. 31, T36N, R30E
Apache County, Arizona



KERR-MCGEE CORPORATION		
<small>KM-4180</small>		
<small>SCALE: HORIZ. 1" = 50'</small>	<small>APPROVED BY:</small>	<small>DRAWN BY CKE</small>
<small>VERT. 1" = 20'</small>		<small>REVISED</small>
<small>DATE: 2/13/81</small>	EXHIBIT "G"	
Drill Pad Layout & Cut-Fill X Section		
Navajo Well No.27		<small>DRAWING NUMBER</small>
		G

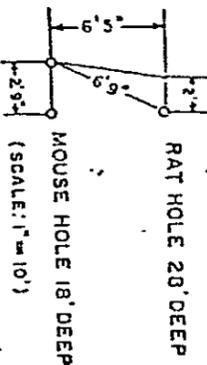
NAVAJO #27

EXHIBIT "H"
Drill Rig and
Production Facilities
Layout



RIG NO. 70

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 DACK
 - 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.

TURNABOUT
SCALE: 1" = 20'

Project No. 92-80

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

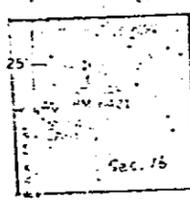
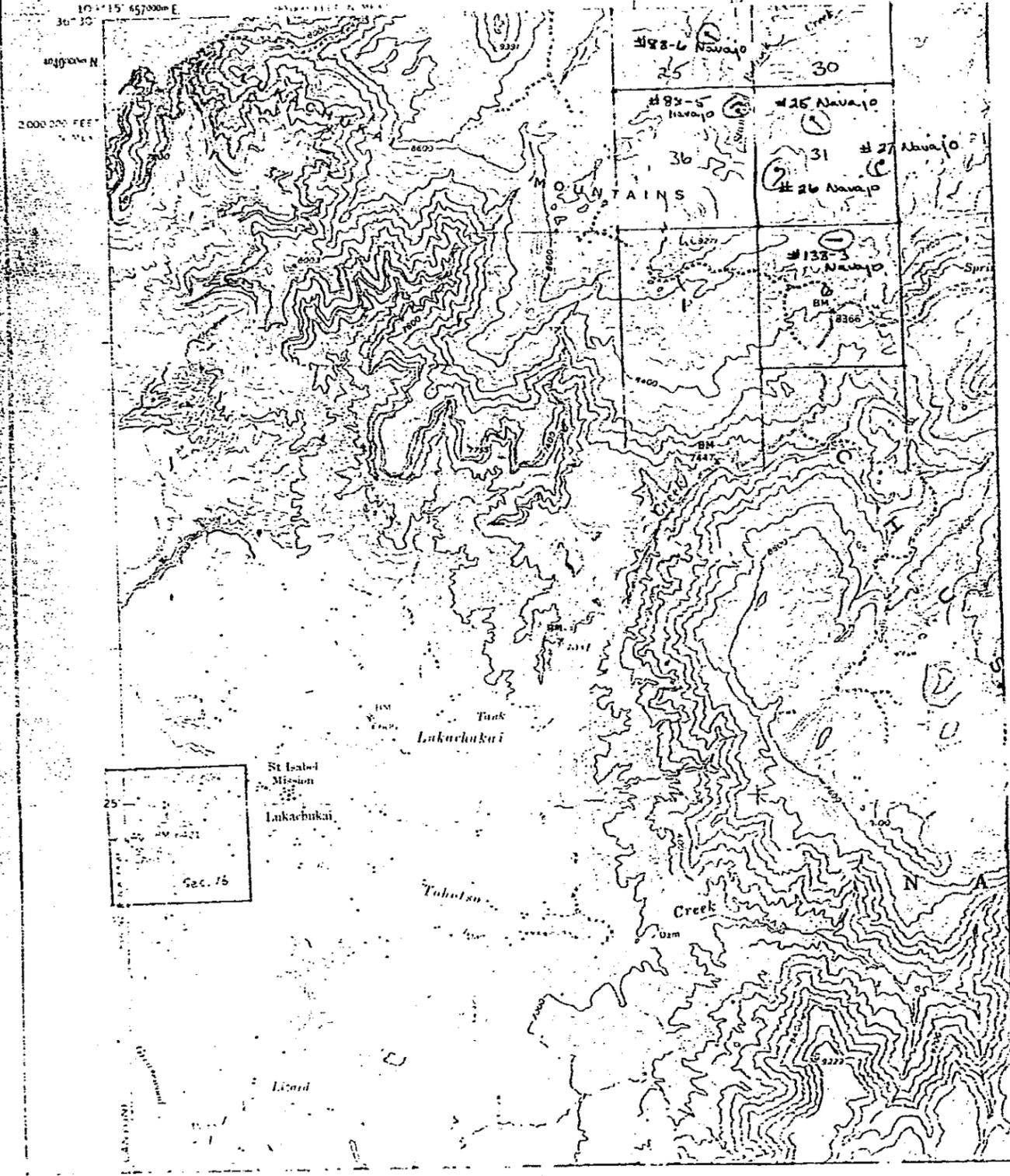
Project Area: 300' X 300' (pad)
30' X 900' (road), 2.9 acres

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.

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



USGS 15' LUKACHUKAI QUADRANGLE,
ARIZONA-NEW MEXICO (1955), T35 & 36N,
R29 & 30E

Navajo Permit #46
Federal Antiquities
Permit #81-NM/UT/AE-025

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 #8-5 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° (MH). 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

Kerr-McGee Corporation
NAME OF COMPANY OR OPERATOR

O & G CONS. COMM.

P. O. Box 250
Address

Amarillo
City

TX 79189
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	27	8545' 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:
600 feet	1139 feet

Number of acres in lease:	Number of wells on lease, including this well, completed in or drilling to this reservoir:
2533	27

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)
2260' FSL & 600' FEL	Sec. 31, T36N, R30E	NE SE 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
4000'	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. 104614

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: 721
Approval Date: March 11, 1981
Approved By: W. O. [Signature]

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

RECEIVED

MAR 11 1981

O & G CONS. COMM.

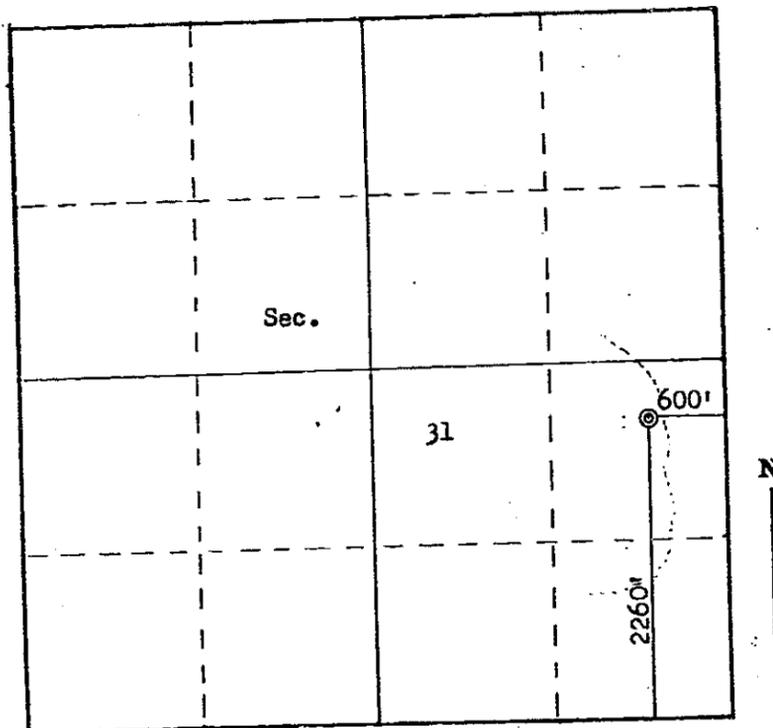
COMPANY KERR-McGEE CORPORATION

LEASE NAVAJO WELL NO. 27

SEC. 31, T. 36N, R. 30E
APACHE COUNTY, ARIZONA

LOCATION 2260'FSL 600'FEL

ELEVATION 8545 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 SUPERVISION 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 27
(WELL NAME)

located 2260' FROM SOUTH LINE & 600' FROM EAST LINE (NE/4 SE/4)

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

The NE SE 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 (SPACING), WITH RESPECT
TO THE PRODUCT TO BE PRODUCED.

PERMIT **Nº 721**

RECEIPT NO. **2012**
API NO. **02-001-20251**

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

721

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

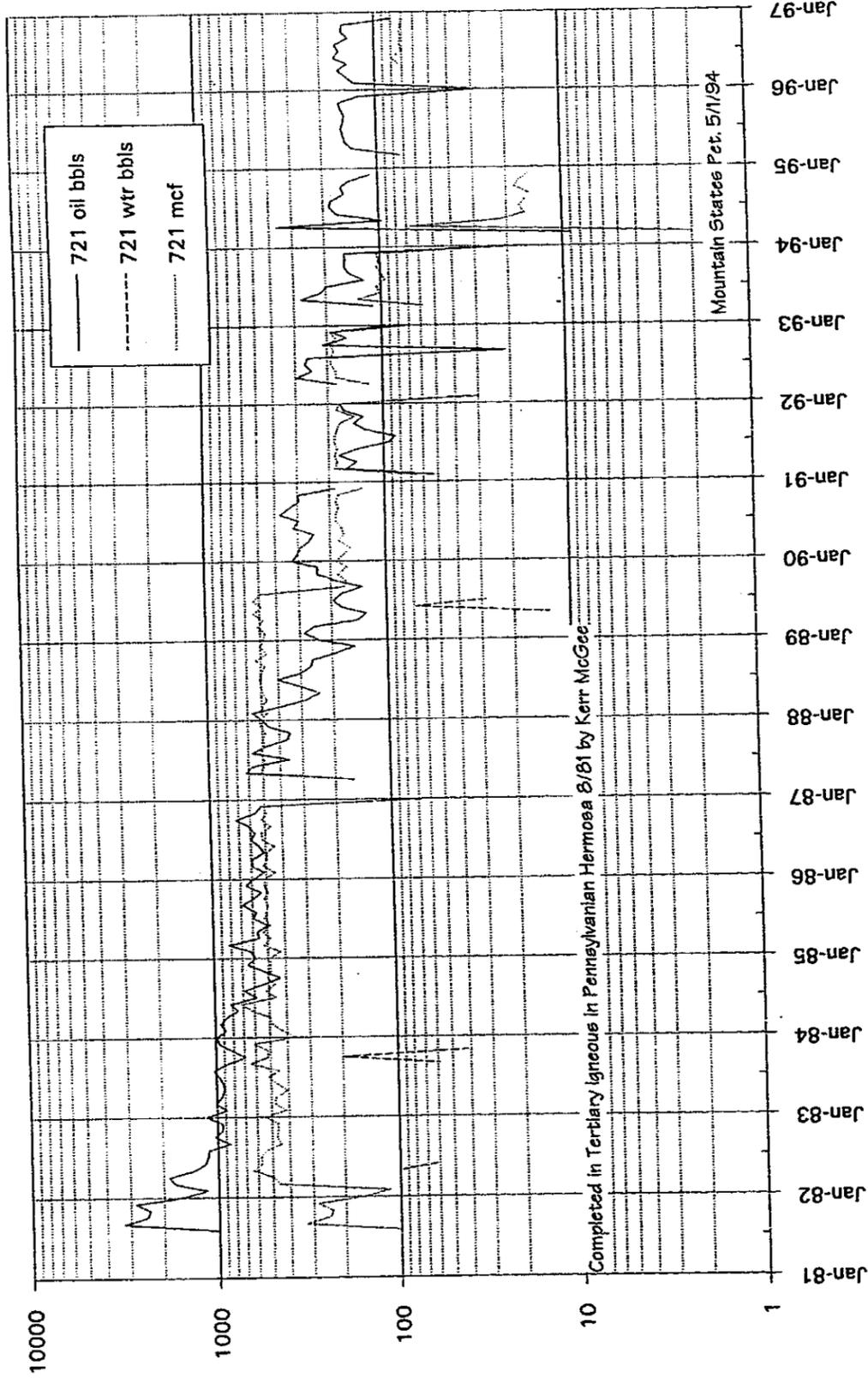
Operator KERR-McGEE CORPORATION
Bond Company SABECO INSURANCE COMPANY OF AMERICA Amount \$25,000
Bond No. 2971100-2620 Date Approved FEBRUARY 18, 1994
DATE

ACTIVE
Permits covered by this bond:

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

MONTHLY PRODUCTION AT 27 NAVAJO (721), ARIZONA: AUG 1981 - DEC 1996

ne se 31-36n-30e, Dineh-bi-Kayah Field, Apache County





Fife Symington
Governor

State of Arizona
Arizona Geological Survey
845 North Park Avenue, #100
Tucson, Arizona 85719
(602) 882-4795



Larry D. Fellows
Director and State Geologist

June 8, 1994

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

Dear Ms. Burkhart:

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

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

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

Sincerely,

Steven L. Rauzi
Oil & Gas Program Administrator

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

CHANGES TO REPORTER INFORMATION

OLD INFORMATION:	
MMS OPERATOR CODE:	X 0 2 1 7
COMPANY NAME:	K E R R M C G E E C O R P O R A T I O N

NEW INFORMATION:	
MMS OPERATOR CODE:	X 0 2 7 4
COMPANY NAME:	M O U N T A I N S T A T E S P E T R O L E U M C O R P
CONTACT NAME:	R U B Y W I C K E R S H A M
STREET ADDRESS:	2 1 3 E F O U R T H
CITY:	R O S W E L L
STATE:	N M
PHONE:	5 0 5 6 2 3 - 7 1 8 4
AREA CODE:	
ZIP CODE:	8 8 2 0 1 -

COMPLETE IF APPLICABLE:	
<input type="checkbox"/>	I AM NO LONGER AN OPERATOR OF INDIAN OR FEDERAL PROPERTIES. PLEASE REMOVE MY NAME FROM YOUR MAILING LIST.
COMPANY SOLD TO:	EFFECTIVE DATE: AZ OIL & GAS CONSERVATION COMMISSION
LEASES / AGREEMENTS AFFECTED:	NAVAJO # 27 (721) JUN 8 1994
Dineh Bi Keyah Field - Apache County, Arizona	
Lease #: 14-20-0603-8823	API #: 020012025100S1
COMMENTS: This property was sold to Mountain States Petroleum Corp. and they became operator effective May 1, 1994.	

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

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

P. O. BOX 1936

505 623-7184

MOUNTAIN STATES PETROLEUM CORPORATION

213 EAST FOURTH STREET
ROSWELL, NEW MEXICO
88202

June 6, 1994

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

**AZ OIL & GAS
CONSERVATION COMMISSION**

JUN 8 1994

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

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

Dear Sir;

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

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

Sincerely,

Judy 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

CONSERVATION COMMISSION

MAY 31 1994

721

Picture
Kerr-McGee
Nov 27

P/N 721



Casing swabbing



KERR-McGEE CORPORATION

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

RECEIVED

SEP 14 1981

O & G CONS. COMM.

OIL AND GAS DIVISION

September 11, 1981

PHONE
806 359-0351

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

RE: Completion Reports for
Kerr-McGee Corporation's
Navajo Lease, Well No. 27
Apache County, Arizona
Dineh-Bi-Keyah Field

Gentlemen:

Enclosed please find for the above referenced well the following:

1. In triplicate, Form No. 4, "Well Completion",
2. In duplicate, Form No. 6, "Potential Test" and attached lease plat,
3. One (1) copy of the CFDC log run.

Please return the extra copy of each to this office in the enclosed envelope.
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/bjm
Enclosures
cc: Navajo Nation

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

721

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. Allen
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. 27, 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.

721