

Kerr-McGee No. 23 ⁷⁴⁰
NW/SW Sec. 29, T36N, R30E

694

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

WELL NAME Kerr-McGee²³ Navajo

LOCATION NW/SW/4 SEC 29 TWP 36N RANGE 30E FOOTAGE 710' FBL 6 2060' FSL

ELEV 7434' GR KB SPUD DATE 10-30-78 COMP. DATE 12-29-78 DEPTH 3180

CONTRACTOR Cactus Drilling Corporation *74A - 8/5/83*

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
<u>9 5/8"</u>	<u>341</u>	<u>300 SKS</u>		<input checked="" type="checkbox"/>
<u>7"</u>	<u>3180</u>	<u>260 SKS</u>		<input type="checkbox"/>

DRILLED BY CABLE TOOL
 PRODUCTIVE RESERVOIR
 INITIAL PRODUCTION 2850, 321BW
3.35 MCF GD

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Formation	Top	Bottom		Description*
<u>Chinle</u>	<u>0</u>	<u>690 ±</u>		<u>Red shale w/thin stringers of sand</u>
<u>Coconino</u>	<u>690 ±</u>	<u>1425 ±</u>		<u>Massive sandstone w/shaley stringers</u>
<u>Hermosa</u>	<u>2545 ±</u>			<u>Gray, dense limestone w/shaley stringers</u>
<u>Black Shale</u>	<u>3040 ±</u>	<u>3046 ±</u>		<u>Black shale</u>
<u>Intrusive</u>	<u>3046 ±</u>	<u>3104 ±</u>		<u>Syanite</u>

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
<u>GR-CBL-CCL</u>	<u>3051-3099</u>	<u>3051-3099</u>	SAMPLE DESCRP. SAMPLE NO. <u>1805</u> CORE ANALYSIS <u>NONE</u> DSTs <u>NONE</u>

REMARKS _____ APP. TO PLUG _____
 PLUGGING REP. _____
 COMP. REPORT 12-27-78

WATER WELL ACCEPTED BY _____

BOND CO. Firemens Insurance Company filed in PW 723 BOND NO. 188-98-10-528
 DATE _____ ORGANIZATION REPORT 6-29-69
 BOND AMT. \$ 25,000 CANCELLED _____
 FILING RECEIPT 1242 LOC. PLAT X WELL BOOK X PLAT BOOK X
 API NO. 02-001-20243 DATE ISSUED 7-5-78 DEDICATION NA

PERMIT NUMBER 694

RECEIVED

mailed 8-17-83

AUG 15 1983 PLUGGING RECORD

Operator Kerr-McGee Corporation O & G CONS. COMM.		Address P.O. Box 250, Amarillo, Texas 79189			
Federal, State, or Indian Lease Number, or lessor's name if fee lease. 14-20-0603-8823		Well No. 23	Field & Reservoir Dineh-Bi-Keyah		
Location of Well 2060' ESL & 710' FWL		Sec-Twp-Rge or Block & Survey Sec. 29, T36N, R30E G&SRM Survey		County Apache	
Application to drill this well was filed in name of Kerr-McGee Corporation	Has this well ever produced oil or gas yes	Character of well at completion (initial production): Oil (bbls/day) 28 Gas (MCF/day) -- Dry? No			
Date plugged: 8/5/83	Total depth 3142' PBTB	Amount well producing when plugged: Oil (bbls/day) 0 Gas (MCF/day) 0 Water (bbls/day) 0			
Name of each formation containing oil or gas. Indicate which formation open to well-bore at time of plugging	Fluid content of each formation	Depth interval of each formation		Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount cement	
Lower Hermosa Sill	No oil or gas, some wtr.	3051' - 3099'		*See reverse side for details of P&A operations	
CASING RECORD					
Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, ripped, etc.)	Packers and shoes
9 5/8"	341'	0	341'	--	--
7"	3180'	0	3,180'	--	--
Was well filled with mud-laden fluid, according to regulations? yes				Indicate deepest formation containing fresh water. unknown	
NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE					
Name	Address			Direction from this well:	
None					
In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required.					
Use reverse side for additional detail.					
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the <u>Engineering Assitant</u> of the <u>Kerr-McGee Corporation</u> (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.					
August 11, 1983 Date		<i>Aaron Reyna</i> Signature		Aaron Reyna	
Approved <i>8-18-83</i> <i>W. H. ...</i> Permit No. <u>694</u>			STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Plugging Record File One Copy Form No. 10		

- * 8/3/83 PU Halliburton 7" cmt. retainer and set @ 2992'. Load hole w/94 bbls. of fresh water mud. Squeeze the interval 3051' - 3099' w/43 sacks class "H" cmt. Dump 2 sacks class "H" cmt. on retainer. PU tbg 2592 and pumped a 25 sack class "H" cmt. plug.
- 8/4/83 Perforated 2 holes in 7" csg. @ 740'. Pumped 200 sacks of class "H" cmt. from 740' -240'. PU tbg. to 30' and pumped a 12 sack class "H" cmt. plug from 30' to surface. (Hole standing full when operations were completed.)
- 8/5/83 Cut 9 5/8" & 7" csg. off 4' below ground level. Welded on steel cap and installed P&A marker

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, Texas 79189**

Federal, State or Indian Lease Number or name of lessor if fee lease: **14 - 20 - 0603 - 8823** Well Number: **23** Field & Reservoir: **Dineh - Bi - Keyah**

Location: **2060' FSL, 710' FWL** County: **Apache**

Sec. TWP-Range or Block & Survey: **Sec. 29, T36N - R30E, G&SRM**

Date spudded: **10-30-78** Date total depth reached: **11-13-78** Date completed, ready to produce: **12-2-78** Elevation (DP, RKB, RT or Gr.): **7434 GR** feet Elevation of casing hd. flange: **Same** feet

Total depth: **3180** P.B.T.D.: **3142** Single, dual or triple completion?: **Single** If this is a dual or triple completion, furnish separate report for each completion: **----**

Producing interval (s) for this completion: **3051' - 3099'** Rotary tools used (interval): **All** Cable tools used (interval): **----**

Was this well directionally drilled?: **No** Was directional survey made?: **No** Was copy of directional survey filed?: **No** Date filed: **----**

Type of electrical or other logs run (check logs filed with the commission): **GR - CBL - CCL** Date filed: **With this report**

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)						
Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Surface	12 1/4	9 5/8"	32.3	341	300 "B"	----
Production	8 3/4	7	20.0	3180	260 "B"	----

TUBING RECORD

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
2 7/8 in.	3097 ft.	----	----	----	----	----	-----

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval
1 1/2 ft.	.46 Hyper Jet	3051' - 3099'	Acid: 2100 gal 3 1/2 HFL - 7 1/2% HCL Frac: 52,000 gals crude	All

INITIAL PRODUCTION 88,000# sand

Date of first production: **12-2-78** Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump): **Pumping 2 1/2" X 2" X 20' BHP**

Date of test	Hrs. tested	Choke size	Oil prod. during test	Gas prod. during test	Water prod. during test	Oil gravity
12-14-78	24	--	28 bbls.	3.35 MCF	321 bbls.	* API (Corr)

Tubing pressure	Casing pressure	Cal'd rate of Production per 24 hrs.	Oil	Gas	Water	Gas-oil ratio
---	---	---	28 bbls.	3.35 MCF	321 bbls.	119.6

Disposition of gas (state whether vented, used for fuel or sold):

Vented

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

Date: **December 27, 1978**

RECEIVED

Larry R. Bell
Signature

Larry R. Bell

JAN 2 1979

O & G CONS. COMM.

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

Permit No. **694**

Form No. 4

File Copy

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, Texas 79189		
Federal, State or Indian Lease Number or name of lessor if fee lease 14 - 20 - 0603 - 8823		Well Number 23	Field & Reservoir Dineh - Bi - Keyah	
Location 2060' FSL, 710' FWL		County Apache		
Sec. TWP-Range or Block & Survey Sec. 29, T36N - R30E, G&SRM				
Date spudded 10-30-78	Date total depth reached 11-13-78	Date completed, ready to produce 12-2-78	Elevation (DF, RKB, RT or Gr.) 7434 GR feet	Elevation of casing hd. flange Same feet
Total depth 3180	P.B.T.D. 3142	Single, dual or triple completion? Single		If this is a dual or triple completion, furnish separate report for each completion. ----
Producing interval (s) for this completion 3051' - 3099'		Rotary tools used (interval) All		Cable tools used (interval) ----
Was this well directionally drilled? No	Was directional survey made? No	Was copy of directional survey filed? No	Date filed ----	
Type of electrical or other logs run (check logs filed with the commission) GR - CBL - GCL				Date filed With this report

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)						
Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Surface	12 1/4	9 5/8"	32.3	341	300 "B"	----
Production	8 3/4	7	20.0	3180	260 "B"	----

TUBING RECORD

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
2 7/8 in.	3097 ft.	----	----	----	----	----	-----

PERFORATION RECORD			ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD	
Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval
1/2 ft.	.46 Hyper Jet	3051' - 3099'	Acid: 2100 gal 3 1/2% HFL-7 1/2% HCL Frac: 52,000 gals crude	All
INITIAL PRODUCTION 88,000# sand				

Date of first production 12-2-78		Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump): Pumping 2 1/2" X 2" X 20' BHP				
Date of test 12-14-78	Hrs. tested 24	Choke size --	Oil prod. during test 28 bbls.	Gas prod. during test 3.35 MCF	Water prod. during test 321 bbls.	Oil gravity * API (Corr)
Tubing pressure ---	Casing pressure ---	Cal'ed rate of Production per 24 hrs. ---	Oil 28 bbls.	Gas 3.35 MCF	Water 321 bbls.	Gas-oil ratio 119.6

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

Date **December 27, 1978**

RECEIVED

Larry R. Bell
Signature

Larry R. Bell

JAN 2 1979

O & G CONS. COMM.

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

Permit No. **694**

Form No. 4

File Copy

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
Chinle	0	690 ±	Red shale w/thin stringers of sand
Coconino	690 ±	1425 ±	Massive sandstone w/shaley stringers
Hermosa	2545 ±	3046 ±	Gray, dense limestone w/shaley stringers
Black Shale	3040 ±	3046 ±	Black shale
Intrusive	3046 ±	3104 ±	Syenite

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

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

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

5. PU tbg to 2595' RKB and spot #2 plug from 2595' to 2478' using 25 sx Class "H" cmt.
6. TOH with tbg.
7. TIH with perf gun and shoot 2 holes @ $\pm 740'$ RKB. TOH with perf gun.
8. Establish circulation and pump #3 plug using 200 sx Class "H" cmt. Displace with $9\frac{1}{2}$ bbls fresh water mud leaving top of cmt @ 240' in 7" csg.
9. TIH with 1 jt of tbg and spot #4 plug with 12 sx cmt from 25' to surface.
10. Cut csg 3' below ground level, weld cap on csg, clean, level, reseed location and place abandonment sign.

GAS-OIL RATIO TEST REPORTS

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well gas well other

2. NAME OF OPERATOR

Kerr-McGee Corporation

3. ADDRESS OF OPERATOR

P. O. Box 250 - Amarillo, Texas 79189

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

AT SURFACE: **2060' FSL, 710' FWL**
AT TOP PROD. INTERVAL: **Same**
AT TOTAL DEPTH: **Same**

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

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

5. LEASE Navajo
6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Navajo
9. WELL NO. 23
10. FIELD OR WILDCAT NAME Dineh - Bi - Kayah
11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA Sec 29, T36N, R30E, G66RM
12. COUNTY OR PARISH 13 STATE Apache Arizona
14. API NO.
15. ELEVATIONS: (SHOW DF, KDB AND WD) 7434

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

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

Put well on pump

Pumping back frac load

Report as of 12-9-78

Subsurface Safety Valve: Manu. and Type _____ Ft.

18. I hereby certify that the above is true and correct
Original Signed By: *[Signature]*

SIGNED **Larry R. Bell** **Larry R. Bell** TITLE **Engineering Asst.** DATE **December 12, 1978**

(This space for Federal or State office use)

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

694

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: 2060' FSL & 710' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

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

5. LEASE
14 - 20 - 0603 - 8823
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Navajo
9. WELL NO.
23
10. FIELD OR WILDCAT NAME
Dineh - R. Keyah
11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA
Sec. 29, T36N, R30E G & S RM Survey
12. COUNTY OR PARISH
Apache
13. STATE
Arizona
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
7434 GR

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

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

Drilled 8 3/4" hole to 3180'
 Ran 77 jts 7" csg. - set @ 3/80'
 Cemented csg. w/260 sks Class "B" cement
 Run GR - CBL - GCL log
 Perforated 7" csg from 3051 - 3099' w/1 SPF
 Acidized w/2100 gals. 3% HFL & 7 1/2% HCL
 Swabbed back load
 Fracture treated well w/52,000 gals. crude & 88,000 # 10-20 sand
 Cleaned out 15' of fill
 Ran 99 jts. of 2 7/8" tbg.
 Swabbed well - ran BHP bomb
 Report as of December 2, 1978

Subsurface Safety Valve: Manu. and Type _____

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

Original Signed by Larry R. Bell
 SIGNED Larry R. Bell TITLE Engineering Asst. DATE December 4, 1978

(This space for Federal or State office use)

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

694

RECEIVED
 DEC 6 1978
 O & G CONS. COMM.
 RECEIVED
 DEC 6 1978
 O & G CONS. COMM.

Form 5-331
(May 1963)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THIS MANNER
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Kerr-McGee Corporation

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2060' FSL & 710' FWL

5. LEASE DESIGNATION AND SERIAL NO.
74-20-0603-8823

6. INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
Navajo

8. FARM OR LEASE NAME
Navajo

9. WELL NO.
33

10. FIELD AND POOLS OF WILDCAT
Dinah-B-Kayah

11. SURVEY OR AREA
Sec. 29 T36N, R30E

12. COUNTY
Apache

13. STATE
Arizona

14. PERMIT NO.
State No. 694

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
7434 GR

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

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

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

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

Drilled 8 3/4" hole to 3181'

Ran 77 jts. 7" 20# K-55 csg. Set @ 3180'

Cemented csg. w/260 sks Class "B" cement w/1/4# Flocele/sk

Move out rotary. Moved in completion unit

Preparing to log and perforate

Report as of 11-17-78

18. I hereby certify that the foregoing is true and correct.
Original Signed By Larry R. Bell
SIGNED Larry R. Bell TITLE Engineering Assistant DATE November 17, 1978

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

694 RECEIVED
NOV 20 1978
D & G CONS. COMM.

*See Instructions on Reverse Side

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator KERR-McGEE CORPORATION
 2. Oil Well GAS Well OTHER (Specify) _____
 3. Well Name NAVAJO No. 23
 Location 2060' FSL, 710' FWL
 Sec. 29 Twp. 36 N Rgn. 30 E County Apache Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease 14 - 20 - 0603 - 8823

5. Field or Pool Name Dineh - Bi - Keyah

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

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

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

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

Drilled 12 1/4" hole to 350'
 Ran 8 jts. 9 5/8" 32.3# H-40 casing - set @ 341'
 Cemented csg. w/300 sks Class "B" w/2% CaCl, 1/4#/sk Flocele
 circulated out 45 sks. cement
 Drilling ahead at 3138'
 Report as of 11-11-78

RECEIVED

NOV 10 1978

O & G CONS. COMM.

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

Signed Larry R. Bell Larry R. Bell Title Engineering Assistant Date November 14, 1978

Permit No. 694

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

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator KERR-McGEE CORPORATION

2. OIL WELL GAS WELL OTHER (Specify) _____

3. Well Name NAVAJO # 23

Location 2060' FSL & 710' FWL

Sec. 29 Twp. 36N Rgn. 30E County Apache Arizona.

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

5. Field or Pool Name Dineh-Bi-Keyah

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

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

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

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

Spudded well on 10-30-78 at 4:00 A. M.

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

Signed Larry R. Bell Title Engineering Assistant Date Nov. 1, 1978

Permit No. 694

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

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

Owner	Land Description
	<p style="text-align: center;">CERTIFICATION</p> <p>I hereby certify that the information above is true and complete to the best of my knowledge and belief.</p> <p><i>C. J. Breeden</i> Name</p> <p>C. J. Breeden Position</p> <p>District Manager-Drilling Company</p> <p>Kerr-McGee Corporation Date</p> <p>June 30, 1978</p> <p>I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.</p> <p>Date Surveyed _____</p> <p>Registered Professional Engineer and/or Land Surveyor</p> <p>Certificate No. _____</p>

PROPOSED CASING PROGRAM

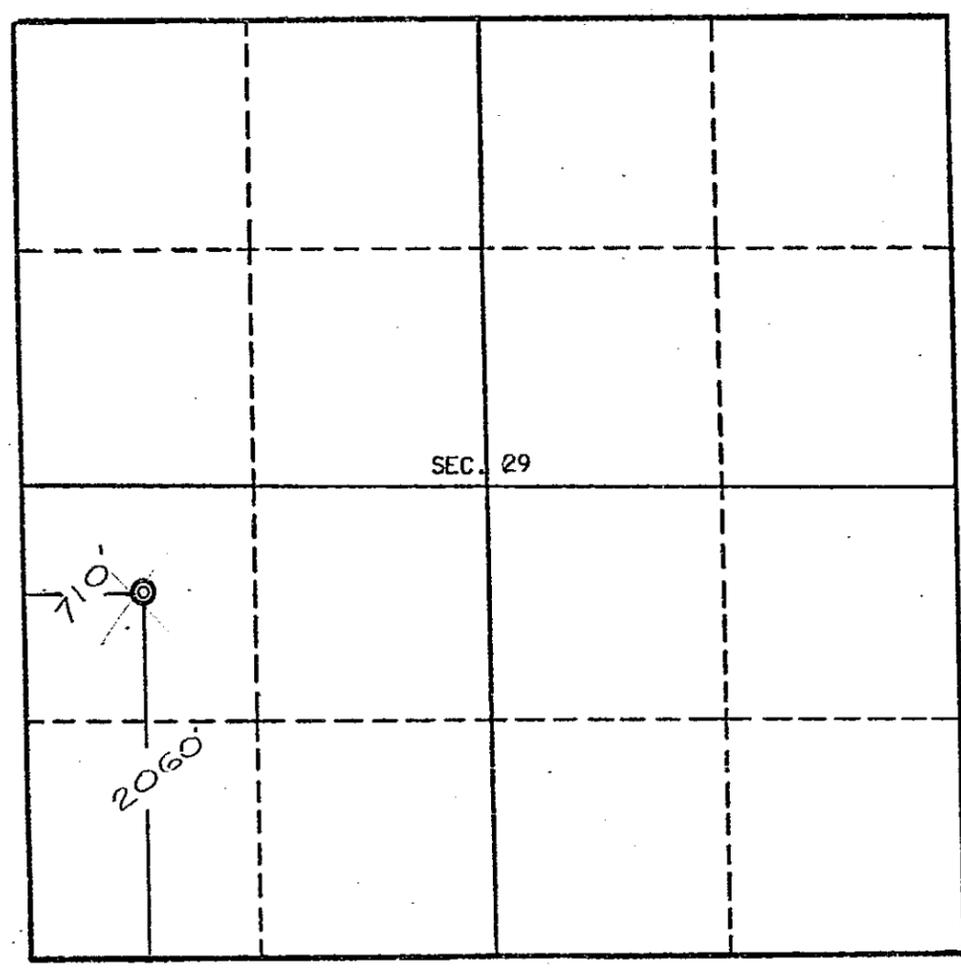
Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
9 5/8"	32.3#	H-40 ST&C	0	300	300	300 sks
7"	20#	K-55 ST&C	0	3,250	3,250	250 sks

fb

RECEIVED
APR 3 1978

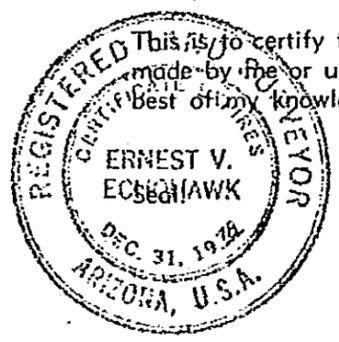
APR 21 1978

Company Kerr-McGee Corporation O.R.C. CONS. COMM.
 Well Name & No. No. 23 Navajo
 Location 2060 feet from the South line and 710 feet from the West line.
 Sec. 29, T. 36 N., R. 30 E., G. & S. R. M., County Apache, Arizona
 Ground Elevation 7434



Scale, 1 inch = 1,000 feet

Surveyed April 6, 1978



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

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



PERMIT TO DRILL

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

To: Kerr-McGee Corporation
(OPERATOR)

to drill a well to be known as

Navajo No. 23
(WELL NAME)

located 710' FEL & 2060' FSL (NW/SW/4)

Section 29 Township 36N Range 30E, Apache County, Arizona.

The N.A. of said
Section, Township and Range is dedicated to this well.

Said well is to be drilled substantially as outlined in the attached Application and must be drilled
in full compliance with all applicable laws, statutes, rules and regulations of the State of Arizona.

Issued this 5th day of July, 1978.

OIL AND GAS CONSERVATION COMMISSION

By W.B. Allen
EXECUTIVE SECRETARY

PERMIT N^o 694

RECEIPT NO. 1242
API No. 02-001-20243

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

SAMPLES ARE REQUIRED



KERR-McGEE CORPORATION

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

RECEIVED

FEB 18 1983

O & G CONS. COMM.

O & G CONS. COMM.

OIL AND GAS DIVISION

February 15, 1983

PHONE
806 359-0351

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

RE: Application to Abandon and Plug,
Kerr-McGee Corporation's Navajo #23.
Located in Section 29, T36N, R30E,
Apache County, Arizona.

Gentlemen:

Enclosed in duplicate is "Application to Abandon and Plug" the above referenced non-producing oil well.

The Navajo #23 was completed on December 2, 1978. The well has since watered out. The last test taken on February 2, 1979 shows the well producing 0 BOPD and 350 BWPD.

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

Sincerely,

KERR-McGEE CORPORATION

Aaron Reyna

Aaron Reyna
Engineering Assistant

W.P. Diffin

W.P. Diffin
District Engineering Manager
Southwest District - N.A.

AR/rh

Duplicate sent 2-22-82



OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
1645 WEST JEFFERSON, SUITE 420
PHOENIX, ARIZONA 85007
PHONE: (602) 271-5161

July 5, 1978

Mr. C. J. Breeden
District Manager, Drilling
Kerr-McGee Corporation
P.O. Box 250
Amarillo, Texas 79105

Re: Kerr-McGee Navajo No. 21
NW/SE/4 Sec. 30, T36N, R30E
Apache County, Arizona
State Permit No. 693

Kerr-McGee Navajo No. 23
NW/SW/4 Sec. 29, T36N, R30E
Apache County, Arizona
State Permit No. 694

Kerr-McGee Navajo No. 24
NW/NW/4 Sec. 32, T36N, R30E
Apache County, Arizona
State Permit No. 695

Dear Mr. Breeden:

Attached you will find your approved copy of the applications to drill, the drilling permits, and our receipt No. 1242 in the amount of \$75.00.

It will be appreciated if you will advise me prior to spudding these wells.

Very truly yours,

W. E. Allen
Director
Enforcement Section

WEA/vb

Enc.



KERR-McGEE CORPORATION

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

RECEIVED

JUL 3 1978

O & G CONS. COMM.

PHONE

806 376-7256

June 30, 1978

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

RE: Application for Permit to Drill
Kerr-McGee Corporation's Navajo
Wells #21, #23, & #24, Dineh-Bi-
Keyah Field.

Gentlemen:

Kerr-McGee Corporation proposes to drill the above referenced wells. The proposed wells will be located in Sections 29, 30, and 32, T36N, R30E, G&SRM Survey, Apache County, Arizona.

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

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

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

Sincerely,

KERR-McGEE CORPORATION

C. J. Breeden
C. J. Breeden
District Manager-Drilling
Southwest District - N. A.

LRB/ra

cc: Navajo Tribe

KM-1473-F

DETACH BEFORE DEPOSITING

RUSH
L. LONG T2506

REMITTANCE ADVICE

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

KERR - MCGEE CORPORATION
OIL AND GAS DIVISION

85398

DATE		INVOICE NUMBER OR DESCRIPTION	GROSS AMOUNT		DISCOUNT		NET AMOUNT
MO.	DAY		CR.		CR.		
		694					25 00
		FILING FEE FOR APPLICATION FOR PERMIT TO DRILL KERR-MCGEE NAVAJO WELL NO. 23, LOCATED 2,060' FSL & 710' FEL OF SECTION 29, T36N, R30E, G&SRM, APACHE COUNTY, AZ					
					RECEIVED 1978 O & G CONS. COMM.		