

Release Date 1-7-68

CONFIDENTIAL

P-11

KERR McGEE #5 Navajo 392
SE SE 31-36N-30E Apache County

sl

COUNTY Apache AREA 16 mi SW Red Rock LEASE NO. Nav 14-20-0603-8823

WELL NAME Kerr-McGee #5 Navajo

LOCATION SE SE SEC 31 TWP 36N RANGE 30E FOOTAGE 960 FSL 910 FEL

ELEV 8525 GR 2534 KB SPUD DATE 5-17-67 STATUS P+A TOTAL DEPTH 4620'
COMP. DATE 9-29-73

CONTRACTOR Pico

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
<u>9 5/8</u>	<u>735'</u>	<u>650 SKS</u>	<u>NA</u>	<u>x</u>
<u>7</u>	<u>4616</u>	<u>250 SKS</u>		
				DRILLED BY CABLE TOOL
				PRODUCTIVE RESERVOIR
				INITIAL PRODUCTION

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
<u>Chuska</u>	<u>Surface</u>		<u>x</u>	
<u>Chinle</u>	<u>717'</u>			
<u>Coconino</u>	<u>1484'</u>			
<u>Supai</u>	<u>2202'</u>			
<u>Hermosa</u>	<u>3290'</u>			
<u>Intrusive</u>	<u>3772'</u>			
<u>Hermosa Ls.</u>	<u>3907</u>			
<u>Mississippian</u>	<u>4078</u>			
<u>Devonian</u>	<u>4236</u>			
<u>McCracken</u>	<u>4385</u>			
<u>Aneth</u>	<u>4478</u>			
<u>Pre-Cambrian</u>	<u>4606</u>			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
<u>Borehole Comp. Sonic-GR</u>	<u>3672-3725' / 3856-</u>		<u>SAMPLE DESCRP. <u>Farm Cut</u></u>
<u>Comp. Formation Density, L</u>	<u>3900/3776-3820</u>		<u>SAMPLE NO. _____</u>
			<u>CORE ANALYSIS <u>x</u></u>
			<u>DSTs <u>x</u></u>

REMARKS 7-10-67 Authorized temp. aband.

APP. TO PLUG x
 PLUGGING REP. x
 COMP. REPORT x

WATER WELL ACCEPTED BY _____

BOND CO. Firemen's Ins. Co. BOND NO. 188 98 10-528
 BOND AMT. \$ 25,000 CANCELLED _____ DATE _____
 FILING RECEIPT 9485 LOC. PLAT x WELL BOOK x PLAT BOOK x
 API NO. 02-001-20016 DATE ISSUED 3-31-67 DEDICATION SE/4

PERMIT NUMBER 392

CONFIDENTIAL

(over) Release Date 1-7-68

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION: T.A.

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 79105**

Federal, State or Indian Lease Number or name of lessor if fee lease: **14-20-0603-8823** Well Number: **5** Field & Reservoir: **Dineh-bi-Keyah Hermosa**

Location: **960' FSL & 910' FEL (SE SE)** County: **Apache**

Sec. TWP-Range or Block & Survey: **Sec 31, T36N, R30E**

Date spudded: **5/17/67** Date total depth reached: **6/6/67** Date completed, ready to produce: **TA** Elevation (DF, RKB, RT or Gr.) feet: **8525 GR** Elevation of casing hd. flange feet: **8525**

Total depth: **4620** P.B.T.D.: **4549** 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: Rotary tools used (interval): **All** Cable tools used (interval): **None**

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

Type of electrical or other logs run (check logs filed with the commission): **Induction-Electric, Formation Density, Gamma Ray-Sonic** Date filed: **10/6/67**

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)						
Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Surface	13 3/4"	9 5/8"	32.30	735	650	
Production	8 3/4"	7"	20, 23	4616	250	

TUBING RECORD

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
3 1/2 in.	3765 ft	None ft	None in.	ft.	ft.		

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Am't. & kind of material used	Depth Interval
4	0.48 Jet	3776-3820	2500 gal HF, 90,000 gal oil, 45,000# sand	3776-3820
4	0.48 Jet	3856-3900		

INITIAL PRODUCTION

Date of first production: Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)

Date of test	Hrs. tested	Choke size	Oil prod. during test	Gas prod. during test	Water prod. during test	Oil gravity
			bbls.	MCF	bbls.	* API (Corr)

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

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

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

Date: **7/31/71** Signature: *[Signature]*

RECEIVED

AUG 2 1971
O & G CONS. COMM.

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

Permit No. **392**

Form No. 4

File Copy **2**

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
Chuska	Surface	717	Sandstone
Chinle	717	1484	Shale
Coconino	1484	2202	Sandstone
Supai	2202	3290	Shale & Sandstone
Hermosa Ls.	3290	3772	Limestone & Shale
Hermosa Intrusive	3772	3907	Intrusive Sill
Hermosa Ls.	3907	4078	Limestone & Shale
Mississippian	4078	4236	Limestone
Devonian	4236	4385	Dolomite & Shale
McCracken	4385	4478	Sandstone & Shale
Aneth	4478	4606	Dolomite & Shale
PreCambrian	4606	T.D.	Granite
Cored Hermosa	3760	3909	
Cored McCracken	4392	4473	
DST #1 McCracken,	4368	-4473'	Flow 60 min, 500 MCFPD, IF 185 psi, FF 154 psi, FSI 780 psi.

* 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.

PLUGGING RECORD

Operator Kerr-McGee Corporation		Address P. O. Box 250, Amarillo, TX 79105	
Federal, State, or Indian Lease Number, or lessor's name if fee lease. 14-20-0603-8823		Well No. 5	Field & Reservoir Dineh bi-Keyah Hermosa
Location of Well 960' FSL & 910' FEL		Sec-Twp-Rge or Block & Survey Sec. 31-T36N-R30E G&SM	County Apache
Application to drill this well was filed in name of Kerr-McGee Corporation	Has this well ever produced oil or gas No	Character of well at completion (initial production): Oil (bbls/day) _____ Gas (MCF/day) _____ Dry? X	
Date plugged: September 29, 1973	Total depth 4620	Amount well producing when plugged: Oil (bbls/day) _____ Gas (MCF/day) _____ Water (bbls/day) _____	
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
Hermosa Intrusive	Oil	3772-3907	See Back of Page

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	735	0	735	None	None
7	4616	0	4616	None	None

Was well filled with mud-laden fluid, according to regulations? **Yes** Indicate deepest formation containing fresh water. **600' Est.**

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

Date October 5, 1973

Signature E. J. Breeden
E. J. Breeden

RECEIVED

OCT 08 1973

O & G CONS. COMM.

Permit No. 392

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Plugging Record
File One Copy

Form No. 10

Set Howco E-Z drill retainer @ 3665, squeeze 150 sx cement thru perfs, leave 43 sx below retainer, place 50 ft. cement plug on top of retainer. Leave heavy mud from 3615 to 65', place cement plug 65' to 15' and fill on to surface with heavy mud. Remove Bradenhead, install 4" steel pipe marker on top of well with operator, well, field, location and lease number welded on side of the marker.

APPLICATION TO ABANDON AND PLUG

FIELD Dineh-bi-Keyah
 OPERATOR Kerr-McGee Corporation ADDRESS P.O. Box 250, Amarillo, Texas 79105
 Federal, State, or Indian Lease Number or Lessor's Name if Fee Lease 14-20-0603-8823 Navajo WELL NO. 5
 SURVEY G&SRM SECTION 31, T36N, R30E COUNTY Apache
 LOCATION 960' FSL and 910' FEL

TYPE OF WELL Dry Hole TOTAL DEPTH 4620
(Oil, Gas or Dry Hole)
 ALLOWABLE (If Assigned) None
 LAST PRODUCTION TEST OIL 0 (Bbls.) WATER 0 (Bbls.)
 GAS 0 (MCF) DATE OF TEST 7-7-67
 PRODUCING HORIZON Hermosa PRODUCING FROM _____ TO _____

1. COMPLETE CASING RECORD

SIZE	DESCRIPTION	DEPTH (RKB)
9 5/8	32.30#/ft, H-40, ST&C	735
7	20.0 & 23.0#/ft, J-55, ST&C	4616

2. FULL DETAILS OF PROPOSED PLAN OF WORK

1. Set cement retainer at 3,700' above perfs at 3,776'-3,900'
2. Squeeze cement (approximately 150 sacks) thru perfs with 35 sxs below
3. Spot 50' of cement on top of cement retainer. retainer.
4. Fill casing with mud laden fluid (9 PPG mud).
5. Spot 50' of cement in casing from 15' to 65'.
6. Place steel cap on well, no casing will be recovered.
7. Erect marker of 4" pipe per Rule 202.A.7.

If well is to be abandoned, does proposed work conform with requirements of Rule 202? Yes If not, outline proposed procedure above.

DATE COMMENCING OPERATIONS September 10, 1973 or upon approval.

NAME OF PERSON DOING WORK _____ ADDRESS _____

CORRESPONDENCE SHOULD BE SENT TO Warren E. Richardson *Warren E. Richardson*

RECEIVED

SEP 10 1973

O & G CONS. COMM.

District Manager

P. O. Box 250, Amarillo, Texas 79105

September 6, 1973

Date Approved 9-10-73
 STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 By: *W. E. Richardson*

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Application to Abandon and Plug
 File Two Copies
 Form No. 9

Permit No. 397

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-0603-8823																				
2. NAME OF OPERATOR Kerr-McGee Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo																				
3. ADDRESS OF OPERATOR P. O. Box 250, Amarillo, Texas 79105		7. UNIT AGREEMENT NAME																				
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 960' FSL and 910' FEL (SE SE)		8. FARM OR LEASE NAME Navajo																				
14. PERMIT NO. State No. 392	15. ELEVATIONS (Show whether DP, RT, CA, etc.) 8525 GR	9. WELL NO. 5																				
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data:		10. FIELD AND POOL, OR WILDCAT Dineh-bi-Keyah																				
<table border="0"> <tr> <td colspan="2">NOTICE OF INTENTION TO:</td> <td colspan="2">SUBSEQUENT REPORT OF:</td> </tr> <tr> <td>TEST WATER SHUT-OFF <input type="checkbox"/></td> <td>PULL OR ALTER CASING <input type="checkbox"/></td> <td>WATER SHUT-OFF <input type="checkbox"/></td> <td>REPAIRING WELL <input type="checkbox"/></td> </tr> <tr> <td>FRACTURE TREAT <input type="checkbox"/></td> <td>MULTIPLE COMPLETE <input type="checkbox"/></td> <td>FRACTURE TREATMENT <input type="checkbox"/></td> <td>ALTERING CASING <input type="checkbox"/></td> </tr> <tr> <td>SHOOT OR ACIDIZE <input type="checkbox"/></td> <td>ABANDON* <input checked="" type="checkbox"/></td> <td>SHOOTING OR ACIDIZING <input type="checkbox"/></td> <td>ABANDONMENT <input type="checkbox"/></td> </tr> <tr> <td>REPAIR WELL <input type="checkbox"/></td> <td>CHANGE PLANS <input type="checkbox"/></td> <td>(Other) <input type="checkbox"/></td> <td></td> </tr> </table>		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 checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT <input type="checkbox"/>	REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 31, T36N, R30E
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 checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT <input type="checkbox"/>																			
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>																				
		12. COUNTY OR PARISH - 13. STATE Apache Arizona																				

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.)*

Attempts to establish production in the Hermosa Zone have been unsuccessful. It is proposed to plug and abandon this well. A replacement well is planned to be drilled in the same quarter section. The following is the proposed plan for plug and abandonment.

1. Set cement retainer at 3,700' above perfs at 3,776' - 3,900'.
2. Squeeze cement (approximately 150 sacks) thru perfs with 35 sacks below retainer.
3. Spot 50' of cement on top of cement retainer.
4. Fill casing with mud laden fluid (9 PPG mud).
5. Spot 50' of cement in casing from 15' to 65'.
6. Place steel cap on well, no casing will be required.
7. Erect permanent well marker of 4" pipe per Arizona Oil and Gas Commission Rule 202.A.7.

This work should commence on or about September 10, 1973, or upon approval.

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

SIGNED Warren E. Richardson TITLE District Manager DATE 9-6-73

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

RECEIVED

SEP 10 1973

O & G CONS. COMM.

Visited location 8-9-69. Valve on well head.

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO. 14-20-0603-8823	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME NAVAJO	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME NAVAJO	
9. WELL NO. NO. 5	
10. FIELD AND POOL OR WILDCAT Dineh-bi-Keyah	
11. SEC. T., R., M., OR BLE, AND SURVEY OR AREA Sec. 31, T36N, R30E	
12. COUNTY OR PARISH Apache	13. STATE Arizona
14. PERMIT NO. State No. 392	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 8525' 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"/>	ABANDONMENT <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) * <input type="checkbox"/>	<input checked="" 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.)

* Suspend Operations & Temporarily Abandon.

Attempts to establish production in the Intrusive-Hermosa zone have been unsuccessful. It is proposed to suspend operations & temporarily abandon the well while evaluating the performance of offsetting wells & reviewing possible additional stimulation treatment for the Hermosa zone.



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

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

(This space for Federal or State office use)

APPROVED BY [Signature] TITLE Executive Secy DATE 7-10-67

CONDITIONS OF APPROVAL, IF ANY:

5 392

*See Instructions on Reverse Side

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

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

Form approved.
 Budget Bureau No. 42-R714.4

ALLOTTEE NAVAJO
 TRIBE NAVAJO
 LEASE NO. 14-20-0603-8823

LESSEE'S MONTHLY REPORT OF OPERATIONS NAVAJO LSE.

State ARIZONA County Apache Field Dineh-bi-Keyah

The following is a correct report of operations and production (including drilling and producing wells) for the month of JUNE, 1967,

Agent's address 215 Petroleum Center Bldg. Farmington, New Mexico Company Key McCee Corporation Signed [Signature]

Phone 327-9637 Agent's title Prod. Supt.

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	Cu. Ft. of Gas (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SESW32	36N	30E	1	30						Production data will be submitted as soon as run figures are received from Permian Corporation and have been verified.
SENW32	36N	30E	2	30						
SESE32	36N	30E	3X	30						
SESW29	36N	30E	7	30						
SESE30	36N	30E	9	30						
SESE31	36N	30E	5	None						Drilled to 4620' and set 7" csg at 4616'. Block squeeze pay zone with 100 sxs at 3824'-3826' & 150 sxs at 3770'-72'. Perf 3776'-3820' & acidize w/2500 gals. H Fl & frac w/30,000 gals. crude w/15,000# sd. Well swab dry. Perf 3856'-3900'. Frac both intervals with 60,000 gals. crude & 30,000# sd. Well swab dry. Move unit off well 6-21-67 & suspended operation.
SENE31	36N	30E	6	None						Drill to 3658' & set 7" csg. Drill 6-1/4" hole below 7" to 3835' & set 5-1/2" liner from 3530'-3835'. Perf 3672'-3726' and acidized w/900 gals. 10% acetic acid & 2268 gals H Fl acid. Frac w/39,730 gals. crude & 20,000# sd. Swabbing well.
SENW31	36N	30E	14	None						Spud 6-10-67. Set 9-5/8" at 754'. Set 7" at 3829'. Drill 6-1/4" hole to 3920'. Open hole pay zone 3829'-3920'. Prepare to frac.
SESW30	36N	30E	15	None						Spud 6-15-67. Set 9-5/8" csg at 262'. Set 7" at 3159'. Rig up cable tools to drill below 7" casing.

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NOTE.—There were _____ runs or sales of oil; _____ runs or sales of gasoline during the month. (Write "no" where applicable.) _____ gas sold;

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

6-28-67

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

Re: Kerr-McGee #4 Navajo

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

→ Kerr-McGee #5 Navajo

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

Kerr-McGee #6 Navajo

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

Kerr-McGee #4 Navajo

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

Kerr-McGee #15 Navajo

Spudded 6-16-67
TD 3159. Moving in cable tool.
PBTD 2094. Tops: Coconino 795
Hermosa Limestone 2790
Intrusive 3155

6
312

ARZ

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved
Budget Bureau No. 42-R1424.

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
NAVAJO

9. WELL NO.
NO. 5

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

11. SEC. T. R. M. OR B.L. AND SURVEY OR MAP NO.
Sec. 31, T36N, R30E

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Kerr-McGee Corporation

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
960' FSL & 910' FEL (SE SE)
Sec. 31, T36N, R30E, Apache Co., Arizona

14. PERMIT NO.
State No. 392

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
8525' 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 checked="" type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input checked="" type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <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.)*

After frac of interval 3776'-3820' with 30,000 gallons oil, 15,000# sand, well swabbed dry. On 6-17-67 perforated lower in the intrusive in the interval 3856'-3900'. Ran tubing with packer and set between perf intervals at 384'. Acidized lower interval (3856'-3900') with 300 gallons 10% Acetic Acid. Max. pressure 1200 psi. Treating pressure 1200 psi. IR 6 bbls/min. Attempted to frac down tubing but established communication between intervals. TOCH with tubing and packer. Frac down casing with 60,000 gals oil, 30,000# sand. 1500# Adomite II and 3000# moth balls. Max. pressure 1900 psi, Ave. pressure 1400 psi. Ave. injection rate 73 bbls/min. Ran tubing. Well swabbed dry. Move unit off well on 6-21-67 to review for possible additional work.

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

SIGNED

[Signature]

TITLE Production Supt.

DATE 6-27-67

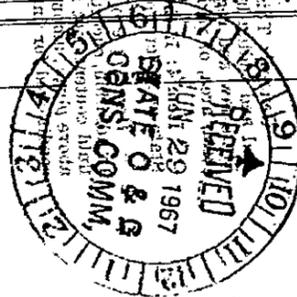
(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side



7 392

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

NAVAJO

9. WELL NO.

NO. 5

10. FIELD AND POOL, OR WILDCAT

Dineh-bi-Keyah

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

Sec. 31, T36N, R30E

12. COUNTY OR PARISH

Apache

13. STATE

Arizona

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Kerr-McGee Corporation

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

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

960' FSL & 910' FEL (SE SE)
Sec. 31, T36N, R30E, Apache Co., Arizona

14. PERMIT NO.
State No. 392

15. ELEVATIONS (Show whether OF, ST, GR, etc.)
8525' Gr

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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

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

Drilled 8-3/4" hole to 4620'. Set 7" O.D. 20# and 23# J-55, ST&C casing at 4616' RKB. Cemented with 200 sxs 50-50 Pozmix with 4% gel followed with 50 sxs neat cement. WOC 57 hrs. Ran cement bond log. Top of cement 3360', but had poor bond in the zone of interest. Test casing with 1000 psi for 30 mins. Held OK. Perf 3824'-26' with 2 jets/ft. Cemented with 100 sxs cement. Broke at 1200 psi. Pumped in at 100 psi. Dropped bridging bar to make bridge plug out of squeeze tool. Perf 3770'-72' with 2 jets/ft. Squeezed with 2 stages of 150 sxs cement. Breakdown 1200 psi. Final squeeze 3000 psi. Drilled out cement and tested casing to 1500 psi for 30 mins. Held Ok. Perf 3776'-3820' with 1 jet/ft. Acidized with 2500 gallons HFI acid with 44 ball sealers. Max. pressure 1300 psi. Ave. injection rate 7 BPM. Swabbed dry. Frac with 30,000 gallons lease crude, 15,000# 10-20 sand and 750# Adomite II. Max. pressure 1450 psi. Ave. treat pressure 1200 psi. Ave. injection rate 52 BPM. Re-perforated 3776'-3820' with 4 jets/ft.

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

SIGNED

[Signature]

TITLE

Production Supt.

DATE 6-26-67

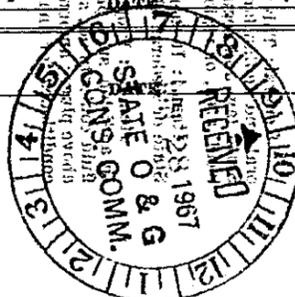
(This space for Federal or State office use)

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

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

*See Instructions on Reverse Side



6-8-67

Telcon w/C.D. Williams, Kerr-McGee Corp.

Re: #5 Navajo

Running pipe on #5. Looks good.

Re: #6 Navajo

Revised casing program:
7" pipe to top of pay zone
Drill the pay
5" lines

Pipeline project is started as of June 5, 1967. Should be complete in 30 - 60 days.

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ARIZONA

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

Page No. 1

CORE ANALYSIS RESULTS

Company KERR-MCGEE CORPORATION Formation PENNSYLVANIAN File CP-1-6338
Well NAVAJO NO. 5 Core Type DIAMOND Date Report 6-7-67
Field DINEH-BL-KEYAH Drilling Fluid WATER BASE MUD Analysts KUHLMAN
County APACHE State ARIZONA Elev. 8521'GL Location 960'FSL 910'FEL SEC 36-36N-30E

Lithological Abbreviations

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs		BOYLES LAW ϕ	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
		PERM. MAX.	TOTAL ϕ		OIL	TOTAL WATER	
	3760-61						Ln, shy
	3761-65						Sh, silty, sl/lmy
	3765-67						Sd, quartzitic, sl/shy
1	3767-68	<0.1	6.0	5.9	20.3	62.4	Sd, quartzitic, sl/shy, v/f
2	68-69	<0.1	2.3	2.1	0.0	62.9	Sd, quartzitic, sl/shy, v/f
3	69-70	<0.1	7.5	7.3	0.0	89.6	Sd, silty, sl/shy
4	70-71	0.2	12.0	11.9	0.0	88.8	Siltstone, shy, sdy
5	71-72	<0.1	9.9	9.9	0.0	98.7	Siltstone, shy, sdy
6	72-73	<0.1	8.5	8.4	30.0	60.1	
7	73-74	<0.1	9.4	9.4	46.3	44.0	Silt
8	74-75	<0.1	10.9	10.8	36.6	38.1	
9	75-76	0.2	10.3	10.0	24.8	37.4	
10	76-77	0.4	10.7	11.2	19.4	34.6	
11	77-78	0.8	11.3	10.6	24.9	38.2	
12	78-79	2.1	11.0	11.0	17.5	42.9	
13	79-80	<0.1	9.1	9.0	21.4	49.2	v/f
14	80-81	<0.1	9.4	8.8	24.5	43.8	v/f
15	81-82	<0.1	8.9	8.5	26.4	46.9	
16	82-83	<0.1	8.2	7.8	23.8	43.1	
17	83-84	0.2	8.9	8.5	21.3	42.0	
18	84-85	0.2	8.3	7.7	29.4	48.4	
19	85-86	<0.1	8.4	7.8	23.2	45.6	
20	86-87	<0.1	9.2	8.9	17.2	56.3	
21	87-88	<0.1	8.6	8.2	17.8	54.8	
22	88-89	<0.1	9.4	8.2	22.1	54.5	
23	89-90	0.2	8.5	7.8	18.2	56.0	v/f
24	90-91	<0.1	9.3	7.9	18.9	58.0	
25	91-92	<0.1	9.5	8.1	22.1	50.6	
26	92-93	<0.1	8.7	8.0	22.8	52.4	
27	93-94	0.2	8.7	8.0	20.3	49.6	
28	94-95	0.3	8.7	8.4	12.1	56.1	v/f
29	95-96	0.2	8.6	8.2	13.7	53.3	v/f
30	96-97	<0.1	9.3	8.1	13.1	50.9	
31	3797-98	0.2	9.9	9.3	16.5	47.1	v/f



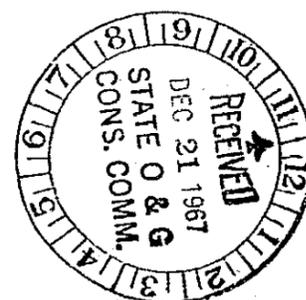
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CORE LABORATORIES, INC
 Petroleum Reservoir Engineering
 DALLAS, TEXAS

File CP-1-6338 Page No. 2
 Well Navajo No. 5

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs	BOYLES LAW Ø	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
				TOTAL Ø		
32	3798-99	0.2	10.8	9.5	13.1	50.7 v/f
33	99-00	0.2	10.0	9.5	9.1	57.2 L. O. v/f
34	3800-01	<0.1	8.4	7.9	32.8	53.9 C. C. v/f
35	01-02	<0.1	8.7	8.3	26.0	51.3 L. O. v/f
36	02-03	<0.1	7.9	7.3	43.7	44.5 L. O. v/f
37	03-04	0.2	8.7	7.4	18.8	57.6 L. O. v/f
38	04-05	0.1	9.0	8.6	13.4	55.8 L. O. v/f
39	05-06	<0.1	9.2	8.2	28.8	52.0 C. C. v/f
40	06-07	<0.1	9.1	9.0	25.0	49.3 L. O. v/f
41	07-08	0.2	10.2	9.4	13.2	51.5 C. C. v/f
42	08-09	0.4	10.1	9.9	11.6	48.7
43	09-10	0.2	10.8	10.0	7.8	48.8
44	10-11	0.2	9.7	9.7	8.5	49.7
45	11-12	0.3	10.4	10.0	4.1	58.6
46	12-13	0.2	8.0	7.8	9.6	56.3
47	13-14	0.2	10.7	10.2	7.6	69.4
48	14-15	0.2	8.1	7.4	10.1	54.9
49	15-16	0.2	7.6	7.1	11.5	62.7
50	16-17	<0.1	7.3	7.2	21.4	56.8
51	17-18	<0.1	8.0	8.0	19.0	50.6 v/f
52	18-19	0.2	9.1	8.9	9.2	54.3 v/f
	3819-20					Lost Core
53	3820-21	0.2	8.9	8.7	4.7	51.4 L. O. & closed v/f
54	21-22	0.2	9.6	9.0	17.4	53.6 Multi. C. C. v/f & N. C. L. v/f
55	22-23	0.2	8.9	8.8	14.3	60.0 v/f
56	23-24	0.2	6.5	6.5	6.9	64.6 v/f
57	24-25	<0.1	7.2	6.9	10.1	59.9
58	25-26	0.2	7.2	6.6	9.8	58.0
59	26-27	0.2	7.9	7.6	13.3	55.8
60	27-28	0.2	8.6	8.3	11.3	66.5
61	28-29	0.2	8.9	8.6	8.1	47.7
62	29-30	0.2	9.6	8.9	3.8	67.6
63	30-31	0.3	8.6	7.8	5.0	59.6 v/f
64	31-32	0.2	8.1	7.8	4.4	63.1 v/f
65	32-33	0.2	7.8	7.3	4.9	57.5
66	33-34	0.4	8.0	7.3	4.8	65.1
67	34-35	0.2	8.1	7.3	5.1	64.5
68	3835-36	1.2	8.9	8.4	4.3	58.6



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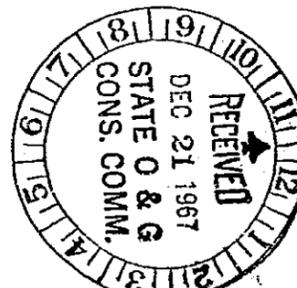
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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

File CP-1-6338 Page No. 3
Well Navajo No. 5

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs	BOYLES LAW ϕ	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
TOTAL ϕ						
69	3836-37	0.2	8.6	7.6	9.3	59.1
70	37-38	0.3	8.4	7.8	5.9	59.1
71	38-39	0.4	8.5	7.7	10.4	56.8
72	39-40	0.2	8.1	7.7	14.8	57.5
73	40-41	0.2	8.0	7.6	15.5	56.3
74	41-42	0.2	8.3	7.7	16.0	62.3 C. C. v/f
75	42-43	0.3	7.5	6.9	16.2	58.8 L. O. v/f
76	43-44	0.2	6.9	6.8	22.2	49.3 L. O. v/f
77	44-45	0.2	7.7	7.7	12.3	62.2 L. O. v/f
78	45-46	<0.1	3.8	3.8	19.7	74.7 C. C. v/f & N. C. L. v/f
79	46-47	<0.1	6.4	6.0	19.0	63.3 C. C. v/f
80	47-48	0.2	8.3	8.0	10.4	65.5 C. C. v/f
81	48-49	0.2	8.2	7.7	14.9	62.2 C. C. v/f
82	49-50	0.2	7.4	7.2	27.8	59.2 C. C. v/f
83	50-51	0.2	8.3	8.0	9.3	74.0 C. C. v/f
84	51-52	0.2	8.3	8.2	4.5	72.9 P. v/f
85	52-53	0.2	8.4	8.3	10.0	71.1 P. v/f
86	53-54	0.2	8.9	8.6	8.1	75.6 C. C. v/f
87	54-55	0.3	8.8	8.6	9.1	72.0 C. C. v/f
88	55-56	0.3	9.1	9.0	3.9	76.6 C. C. v/f
89	56-57	0.5	9.4	9.4	4.5	71.1 P. v/f
90	57-58	0.8	8.7	8.6	4.7	75.0 P. v/f & H. S. C.
91	58-59	0.2	7.6	7.4	5.3	79.7
92	59-60	0.3	8.3	7.9	9.4	70.6
93	60-61	0.3	8.8	8.6	4.4	71.6 C. C. v/f
94	61-62	0.5	8.4	8.3	5.9	74.6 C. C. v/f
95	62-63	0.4	8.0	8.0	10.0	75.4 C. C. v/f
96	63-64	0.3	7.8	7.6	10.5	74.6 C. C. v/f
97	64-65	0.5	8.0	7.8	9.2	73.3 C. C. v/f
98	65-66	0.1	7.7	7.6	8.0	75.2 C. C. v/f
99	66-67	0.2	7.5	7.5	6.3	73.6 C. C. v/f
100	67-68	0.3	7.5	7.4	5.4	78.1
101	68-69	0.3	7.9	7.7	11.2	74.9
102	69-70	0.2	7.5	7.0	10.7	76.3
103	70-71	0.3	7.3	6.9	12.9	75.4
104	71-72	0.2	6.9	6.7	10.6	79.6
105	72-73	0.2	6.6	6.4	13.4	68.9
106	3873-74	0.2	6.4	6.0	6.3	85.2



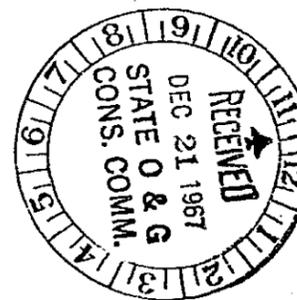
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CORE LABORATORIES, INC.
 Petroleum Reservoir Engineering
 DALLAS, TEXAS

File CP-1-6338 Page No. 4
 Well Navajo No. 5

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs	BOYLES LAW Ø	RESIDUAL SATURATION PER CENT PORE			SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER		
			TOTAL Ø				
107	3874-75	0.2	6.4	6.1	17.5	78.4	
108	75-76	0.2	7.3	6.9	11.0	78.6	v/f
109	76-77	0.2	7.1	7.0	11.3	75.6	v/f
110	77-78	0.2	6.4	6.4	18.1	75.6	v/f
111	78-79	0.2	6.7	6.5	19.1	74.5	v/f
112	79-80	0.2	6.4	6.3	TR	84.6	v/f
113	80-81	0.2	5.5	5.5	8.5	71.3	v/f
114	81-82	0.2	5.9	5.8	8.4	71.4	Multi v/f
115	82-83	0.3	6.6	6.2	6.6	76.1	v/f
116	83-84	0.2	6.9	6.8	9.6	76.5	v/f
117	84-85	0.3	8.6	8.1	10.0	62.8	L. O. v/f
118	85-86	0.3	9.2	9.0	18.1	70.6	L. O. v/f
119	86-87	0.2	8.4	7.8	16.7	65.0	L. O. v/f
120	87-88	0.2	6.9	6.1	20.8	64.1	L. O. v/f
121	88-89	<0.1	6.5	5.3	36.0	59.2	L. O. v/f
122	89-90	0.2	6.7	5.4	28.3	57.8	L. O. v/f
123	90-91	0.2	8.3	7.7	13.5	56.5	L. O. v/f
124	91-92	0.2	7.5	6.9	18.1	65.7	
125	92-93	<0.1	5.5	4.8	0.0	92.5	
126	93-94	<0.1	6.3	5.5	12.5	84.0	
127	94-95	<0.1	6.9	5.8	12.9	75.3	
128	95-96	0.2	7.3	6.0	24.0	63.7	
129	96-97	<0.1	6.5	5.5	18.5	66.9	
130	97-98	<0.1	6.3	5.0	18.4	69.8	
131	98-99	<0.1	6.4	4.8	14.2	83.3	
132	99-00	<0.1	7.2	5.9	20.0	69.0	
133	3900-01	0.2	7.7	6.8	36.0	55.1	Horizontal lined v/f
134	01-02	0.2	8.2	7.3	34.2	56.4	
135	02-03	0.2	7.9	6.7	31.9	61.2	v/f
136	03-04	0.3	8.6	7.1	18.9	71.4	C. C. v/f
137	04-05	0.2	6.5	5.3	9.1	83.8	Multi O & C. L. v/f
138	05-06	0.2	7.0	5.4	10.2	84.8	Multi O & C. L. v/f
139	06-07	0.2	11.0	10.2	10.6	84.2	Multi O & C. L. v/f base sill
140	3907-09	0.5	9.5	9.3	0.0	89.8	Multi v/f



THIS IS A FINAL REPORT.

- L. O. v/f - Lined Open Vert Frac
- N.C.L. v/f - Not Cement Lined Vert Frac
- H. S. C. - Horizontal Solution Channel
- C. C. v/f - Cemented Closed Vert Frac
- P. v/f - Partial Vert Frac
- Multi O. & C.L. v/f - Multi Open & Closed v/f

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Form 9-321
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.
14-20-0603-6823

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
NAVAJO

9. WELL NO.
NO. 5

10. FIELD AND POOL, OR WILDCAT
Dinah-bi-Kayah

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

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
KERR-MCGEE CORPORATION

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
**960' FSL & 910' FEL (SE SE)
Sec. 31- T36N, R30E, Apache county, Arizona**

14. PERMIT NO.
State No. 392

15. ELEVATIONS (Show whether DF, BT, CR, etc.)
8525' OL

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

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

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

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

Spudded at 6:00 am 5-17-67. Drilling 13-3/4" hole to 737' and set 9-5/8" O.D. 32.30#, H-40, ST&C Casing at 735' RKB. Cemented with 650 sxs common cement with 2% CaCl and 1/4# /bbl floccs/sx. Circulate out 44 sxs. Plug down at 6:00 am 5-18-67. Released pressure. Floats held ok. WOC 12 hrs. Test casing and BOP to 1100 psi for 30 minutes. Held OK.



18. I hereby certify that the foregoing is true and correct.
SIGNED [Signature] TITLE **Production Supt.** DATE **5-22-67**

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

392

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
Kerr-McGee Corporation

3. ADDRESS OF OPERATOR
P. O. Box K, Surrency, Texas 79086
 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface **960' FSL and 910' FEL of Section 31, T36N R30E,**
Apache County, Arizona
 At proposed prod. zone
Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
16 miles SW of Red Rock, Arizona

10. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) **960'**

16. NO. OF ACRES IN LEASE **2533**

17. NO. OF ACRES ASSIGNED TO THIS WELL **80**

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. **2925'**

19. PROPOSED DEPTH **4500'**

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
8525' GR

22. APPROX. DATE WORK WILL START*
April 6, 1967

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	9 5/8"	36#	800'	Sufficient to circulate cement
8 3/4"	7"	20#	4500'	Sufficient to cover all potential productive zones.

- Blow out preventors: 800' -4500'
1. Kill and choke manifold
 2. 10" series 600 QRC or equivalent with pipe rams.
 3. 10" series 600 QRC or equivalent with blind rams.

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 E. C. Reish, Jr. TITLE Engineer DATE 3-28-67

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME

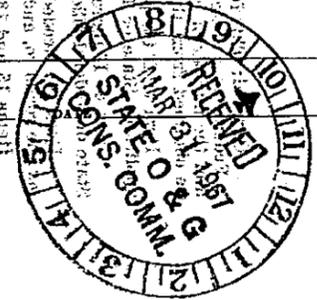
8. FARM OR LEASE NAME
Navajo

9. WELL NO.
5

10. FIELD AND POOL, OR WILDCAT
Wildcat

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

12. COUNTY OR PARISH 13. STATE
Apache Arizona



APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

APPLICATION TO DRILL

RE-ENTER OLD WELL

Kerr-McGee Corporation
NAME OF COMPANY OR OPERATOR

P.O. Box K, **Sunray,** **Texas 79086**
Address City State

Unknown
Drilling Contractor

Address

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or if fee lease, name of lessor 14-20-0603-8823 Navajo	Well number 5	Elevation (ground) 8525' GL
Nearest distance from proposed location to property or lease line: 960' feet	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: 2925' feet	
Number of acres in lease: 2533	Number of wells on lease, including this well, completed in or drilling to this reservoir: 2 completed and 1 completing	
If lease, purchased with one or more wells drilled, from whom purchased:	Name	Address
Well location (give footage from section lines) 960' FSL and 910' FEL	Section—township—range or block and survey Sec 31, T36N, R30E	Dedication (Comply with Rule 105) E/2 of SE/4
Field and reservoir (if wildcat, so state) Wildcat	County Apache	
Distance, in miles, and direction from nearest town or post office 16 miles SW of Red Rock, Arizona		
Proposed depth: 4500'	Rotary or cable tools Rotary	Approx. date work will start April 6, 1967
Bond Status Blanket Bond	Organization Report On file <input checked="" type="checkbox"/> Or attached	Filing Fee of \$25.00 Attached Yes

Remarks:

New Well

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the **Engineer** 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.

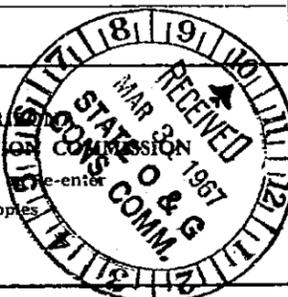
E. C. Bishop, Jr.
Signature

March 28, 1967
Date

Permit Number: **392**
Approval Date: **3-31-67**
Approved By: *John Bannister*

Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

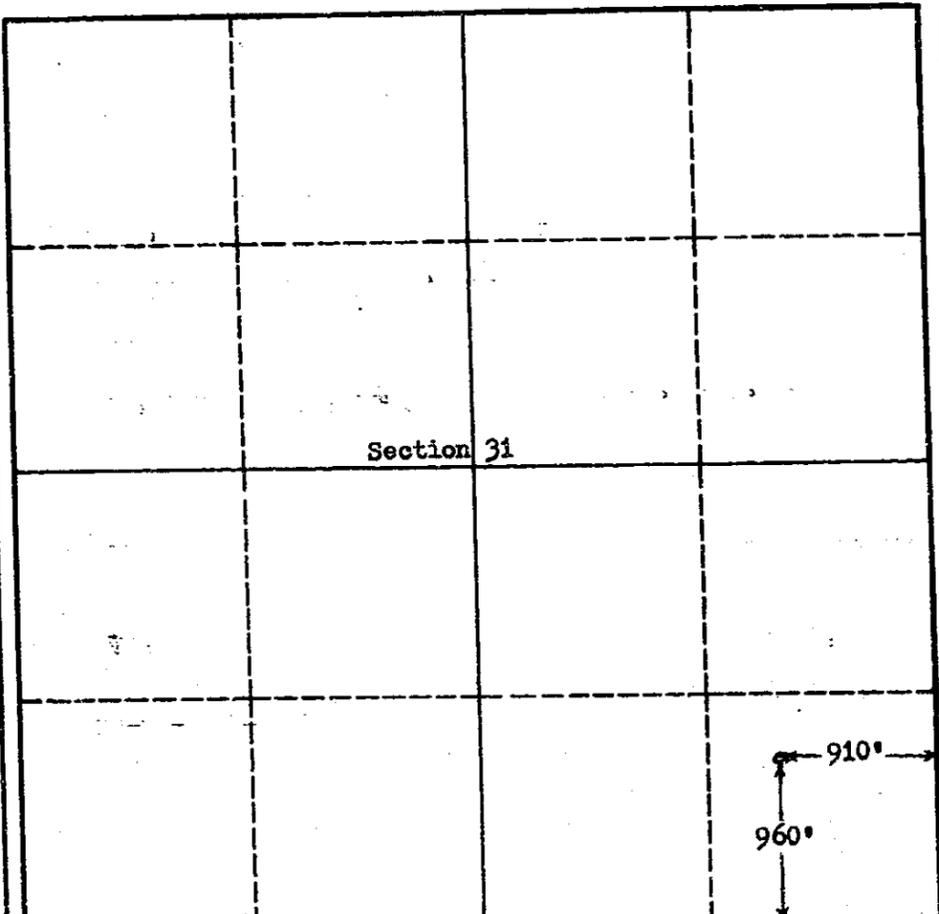
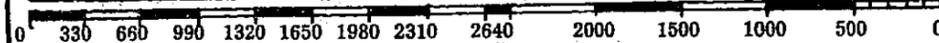
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Drill or Re-enter
File Two Copies



Form No. 3

(Complete Reverse Side)

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

Owner	Land Description
<div style="border: 1px solid black; padding: 10px; margin: 0 auto; width: 80%;"> <p style="text-align: center;">Section 31</p>  <p style="text-align: right; margin-right: 20px;">910'</p> <p style="text-align: right; margin-right: 20px;">960'</p> </div>	<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>Name E. C. Reish, Jr.</p> <p>Position Engineer</p> <p>Company Kerr-M Gee Corporation</p> <p>Date 3-28-67</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 March 23, 1967</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"	36	J-55	0	800'	0-400	Sufficient to circulate.
7"	20	J-55	0	4500'	Sufficient to cover all potential productive zones	



PERMIT TO DRILL

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

To: KERR-MC GEE CORPORATION
(OPERATOR)

to drill a well to be known as
KERR-MC GEE #5 NAVAJO

located 960' FSL and 910' FEL (SE SE)

Section 31 Township 36N Range 30E, Apache County, Arizona.

The E/2 of SE/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 31st day of March, 19 67.

OIL AND GAS CONSERVATION COMMISSION

By John Bannister
EXECUTIVE SECRETARY

PERMIT **Nº 392**

RECEIPT NO. **9485**

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

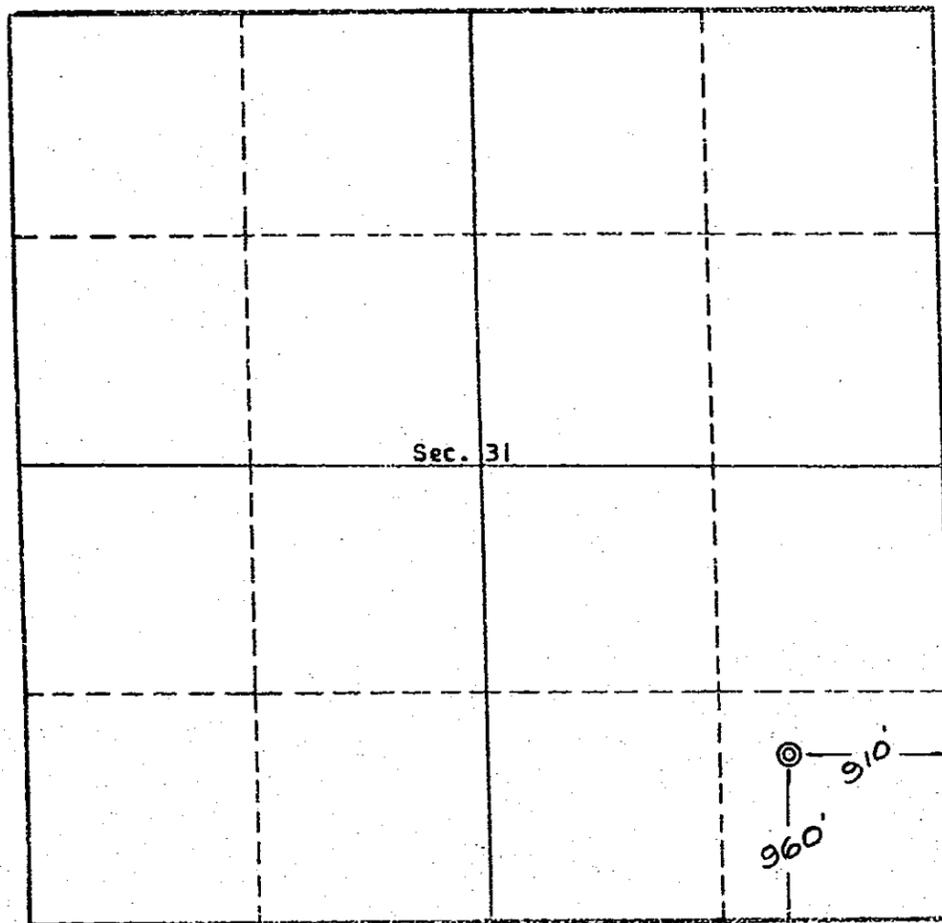
Company KERR-McGEE OIL INDUSTRIES, INC.

Well Name & No. #5 Navajo

Location 960 feet from the South line and 910 from the East line.

Sec. 31, T. 36 N., R. 30 E., G. & S. R. M., County Apache, Arizona

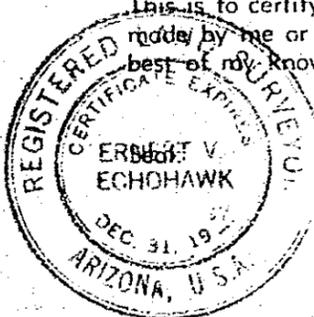
Ground Elevation 6525, ungraded



Scale, 1 inch = 1,000 feet

Surveyed March 23, 1967

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

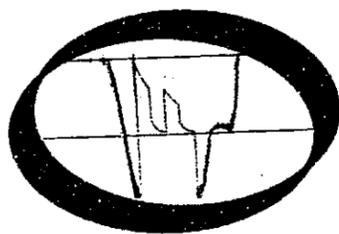
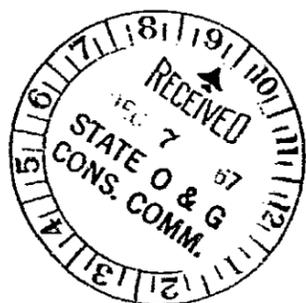


Ernest V. Echchawk
Ernest V. Echchawk
Registered Land Surveyor
Arizona Registration No. 2311

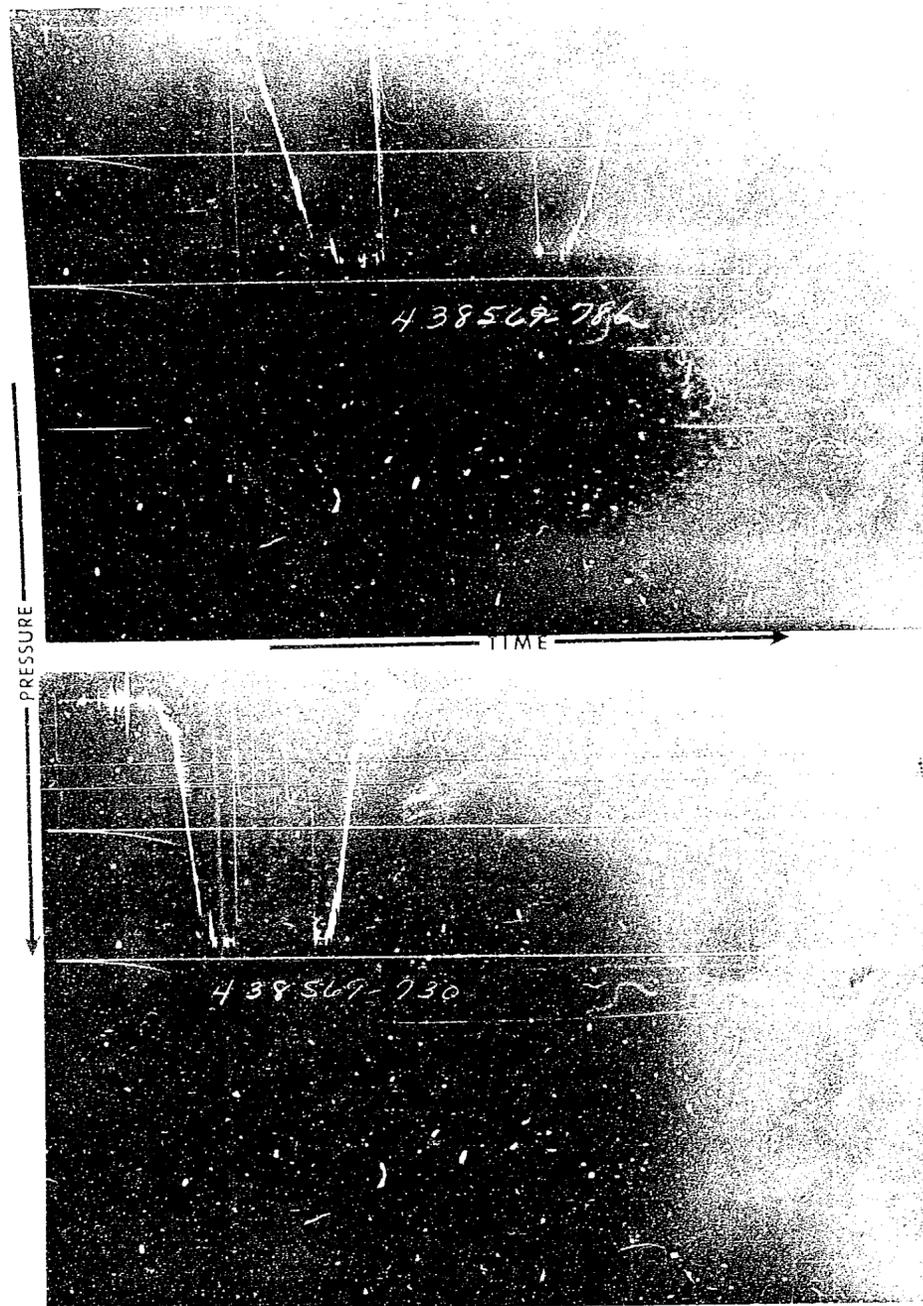


Formation Testing Service Report

392



MA
IN
FI
FI



Each Horizontal Line Equal to 1000 p.s.i.

Well No.	Depth	Pressure	Temperature	Remarks
438569-786	100	1000	100	...
438569-786	200	2000	200	...
438569-786	300	3000	300	...
438569-786	400	4000	400	...
438569-786	500	5000	500	...
438569-786	600	6000	600	...
438569-786	700	7000	700	...
438569-786	800	8000	800	...
438569-786	900	9000	900	...
438569-786	1000	10000	1000	...
438569-730	100	1000	100	...
438569-730	200	2000	200	...
438569-730	300	3000	300	...
438569-730	400	4000	400	...
438569-730	500	5000	500	...
438569-730	600	6000	600	...
438569-730	700	7000	700	...
438569-730	800	8000	800	...
438569-730	900	9000	900	...
438569-730	1000	10000	1000	...

POPULATION DATA

Gauge No. 786		Depth 4356'			Clock 12 hour		Ticket No. 438569		
First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure		
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+0}{0}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+0}{0}$	PSIG Temp. Corr.
P ₀	.000 57	.000		66	.000	81	.000		104
P ₁	.033 66	.0198		561	.0750	95	.0337		754
P ₂		.0396		710	.1500	151	.0674		775
P ₃		.0594		750	.2250	123	.1011		778
P ₄		.0792		765	.3000	97	.1348		779
P ₅		.0990		771	.375	104	.1685		781
P ₆		.1188		775			.2022		782
P ₇		.1386		778			.2359		782
P ₈		.1584		779			.2696		782
P ₉		.1782		781			.303		782
P ₁₀		.198		781					
Gauge No. 730		Depth 4469'			Clock 24 hour				
P ₀	.000 84	.000		103	.000	111	.000		142
P ₁	.017 103	.010		581	.0372	132	.0169		792
P ₂		.020		749	.0744	187	.0338		811
P ₃		.030		788	.1116	162	.0507		813
P ₄		.040		803	.1488	142	.0676		815
P ₅		.050		811	.186	142	.0845		816
P ₆		.060		815			.1014		817
P ₇		.070		817			.1183		817
P ₈		.080		819			.1352		819
P ₉		.090		819			.152		819
P ₁₀		.100		819					
Reading Interval		3			11		5 Minutes		
REMARKS:									

SPECIAL PRESSURE DATA

Each Horizontal Line Equal to 1000 p.s.i.

KRRR MCGEE #5 Navajo
SE SE 31-36N-30E Apache

NOMENCLATURE

b = Approximate Radius of Investigation	Feet
b₁ = Approximate Radius of Investigation (Net Pay Zone h)	Feet
D.R. = Damage Ratio	
EI = Elevation	Feet
GD = B.T. Gauge Depth (From Surface Reference)	Feet
h = Interval Tested	Feet
h₁ = Net Pay Thickness	Feet
K = Permeability	md
K₁ = Permeability (From Net Pay Zone h)	md
m = Slope Extrapolated Pressure Plot (Psi ² /cycle Gas)	psi/cycle
OF₁ = Maximum Indicated Flow Rate	MCF/D
OF₂ = Minimum Indicated Flow Rate	MCF/D
OF₃ = Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF₄ = Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P_s = Extrapolated Static Pressure	Psig.
P_f = Final Flow Pressure	Psig.
P₀₁ = Potentiometric Surface (Fresh Water*)	Feet
Q = Average Adjusted Production Rate During Test	bbbls/day
Q₁ = Theoretical Production w/Damage Removed	bbbls/day
Q_g = Measured Gas Production Rate	MCF/D
R = Corrected Recovery	bbbls
r_w = Radius of Well Bore	Feet
t = Flow Time	Minutes
t₀ = Total Flow Time	Minutes
T = Temperature Rankine	°R
Z = Compressibility Factor	
μ = Viscosity Gas or Liquid	CP
Log = Common Log	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given,
Fresh Water Corrected to 100° F.

Each Horizontal Line Equal to 1000 p.s.i.

KERR MCGEE #5 Navajo
SE SE 31-36N-30E Apache



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

October 22, 1973

Ms. Kay Waller
Petro-Well Libraries Inc.
150 Security Life Building
1616 Glenarm Place
Denver, Colorado 80202

Re: October Current File Material

Dear Kay:

Enclosed is the current material for the month of October.

Data on File #588 - Humble Oil & Refining Company Well No. 1
State (14)

Plugging Record on File #392 - Kerr-McGee Corporation Well No. 5

Completion Report on File #386 - Kerr-McGee Corporation Navajo
No. 3-x

Completion Report on File #379 - Kerr-McGee Corporation Navajo
No. 2

Completion Report on File #431 - Kerr-McGee Navajo Tract #88-2

Data on File #616 - Zoller & Danneberg Inc. Navajo E-2X

By certified mail you will receive logs on File #588 - Humble Oil
and Refining Company Well No. 1 State (14).

Very truly yours,

W. E. Allen, Director
Enforcement Section

Rhema Brandt
Secretary to W. E. Allen

/rlb

Encs.



KERR-McGEE CORPORATION

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

PHONE
806 376-7256

October 5, 1973

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

Re: Plugging Record
Kerr-McGee Corporation
Navajo Well No. 5
960' FSL and 910' FEL
Sec. 31, T36N, R-30E,
Dineh-bi-Keyah Field,
Apache County, Arizona

Gentlemen:

Enclosed is completed Form No. 10, Plugging Record, for the above well.
If other information is needed, please contact the undersigned at the
above address.

Yours truly,

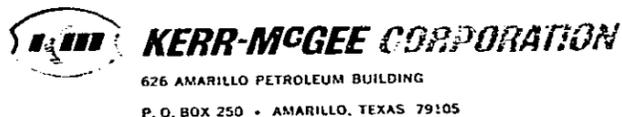
KERR-McGEE CORPORATION

C. J. Breeden
District Production Superintendent

CJB:lp

392

RECEIVED
OCT 05 1973
O & G CON. COMM.



September 6, 1973

PHONE
806 376-7256

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

Re: Application for Permit
to Drill
Navajo Number 17
C NW SE/4
Section 31, T36N, R30E
Apache County, Arizona

Attention: Mr. John Bannister

Dear Mr. Bannister:

Enclosed are two (2) copies of Arizona Oil and Gas Conservation Commission Form Number 3, Application for Permit to Drill, One (1) copy of USGS Form Number 9-331C, Application for Permit to Drill and two (2) copies of Registered Surveyors Plat for the Kerr-McGee Corporation proposed Navajo Number 17 well located in the C NW SE of Section 31, T36N, R30E, Apache County, Arizona. Also enclosed is a draft of \$25.00 for the filing fee.

An application for the plugging and abandonment of Kerr-McGee's Navajo Number 5, which is located within the same quarter section, has been submitted and the work will be performed as soon as approved and the necessary equipment can be obtained.

We would appreciate your early approval of this drilling permit so that we might proceed with cleaning the location and obtaining the services of a drilling rig.

RECEIVED

SEP 10 1973

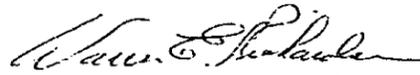
O & G CON. COMM.

State of Arizona
Phoenix, Arizona
Page -2-

If additional information is needed, please advise.

Yours truly,

KERR-McGEE CORPORATION



Warren E. Richardson
District Manager
Southwestern District

WER/mm

Enclosures

RECEIVED

SEP 10 1973

O & G CONS. COMM.

September 10, 1973

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

Re: Navajo No. 5	Navajo No. 17
Sec 31-T36N-R30E	Sec 31-T36N-R30E
Apache County	Apache County
Permit No. 392	Permit No. not yet assigned

Dear Mr. Richardson:

We are returning an approved copy of your Application to Plug the above referenced well. As quickly as this office is notified that your No. 5 well has been plugged, we will issue the Permit to Drill your Navajo No. 17. The drilling location for this well may be made any time you wish. After plugging your No. 5, this office will give you verbal permission to start the drilling of your No. 17, if requested.

If we can be of further assistance, please advise.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/tlb

Enc.



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

September 6, 1973

PHONE
806 376-7256

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

Attention: Mr. John Bannister

Re: Application to Plug
and Abandon
Navajo Well Number 5
Dineh-bi-Keyah Field
960' FSL and 910' FEL
Section 31, T36N, R30E
Apache County, Arizona

Gentlemen:

Attached please find original and one (1) copy of Arizona Oil and Gas Conservation Commission Form Number 9 entitled Application to Abandon and Plug for Kerr-McGee's Navajo Well Number 5 located in the Dineh-bi-Keyah Field in Apache County, Arizona.

The subject well has never produced and has been temporarily abandoned since drilling of the well June 6, 1967. A well completion report and well log was filed with your office July 31, 1971, requesting the status of the well to remain as temporarily abandoned.

Also attached for your information is a copy of the USGS Form 9-331 Sundry Notices and Reports on Wells submitted to the USGS giving notice of intention to plug and abandon subject well.

RECEIVED

SEP 10 1973

O & G CONS. COMM.

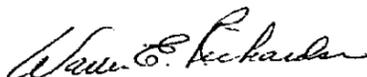
392

State of Arizona
Phoenix, Arizona
Page -2-

An application is being submitted to drill a replacement well in the same quarter section and your early approval of the subject application is respectfully requested.

Yours truly,

KERR-McGEE CORPORATION



Warren E. Richardson
District Manager
Southwestern District

WER/mm

Attachments

RECEIVED
SEP 10 1973
O & G CONS. COMM.

WKA



KERR-MCGEE CORPORATION

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

July 31, 1971

PHONE
806 376-7256

Oil and Gas Conservation Commission
State of Arizona
4515 N. 7th Avenue
Phoenix, Arizona 85013

ATTENTION: Mr. W. E. Allen

RE: Navajo #5
SE SE, Sec 31-T36N-R30E
Apache County, Arizona
Permit #392
Navajo B #1
SE NW, Sec 5-T35N-R30E
Apache County, Arizona
Permit #381

Dear Mr. Allen:

Enclosed for your information and file are two copies of Form #4, Well Completion Report and Well Log for the two captioned wells. As indicated in earlier correspondence, both of these wells are temporarily abandoned with operations suspended, so the Form #4 are not complete in that there is no information for initial production. However, it was felt that the information contained in the forms would be beneficial in completion of your files.

Sincerely yours,

KERR-MCGEE CORPORATION

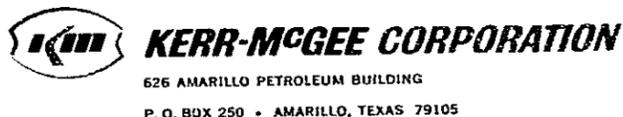
C. D. Williams
District Manager
Southwestern District
Production Division

CDW:kj
Enclosures

RECEIVED

AUG 2 1971

O & G CONS. COMM.



RECEIVED

FEB 22 1971

O & G CONS. COMM.

PHONE
806 376-7256

February 17, 1971

Oil and Gas Conservation Commission
State of Arizona
4515 North 7th Avenue
Phoenix, Arizona 85013

ATTENTION: Mr. W. E. Allen

RE: Kerr-McGee Navajo #5
SE/4 SE/4 Sec 31, T36N R30E
Apache County
Our File #392

Kerr-McGee #B-1 Navajo
SE/4 NW/4 Sec 5, T35N R30E
Apache County
Our File #381

Dear Mr. Allen:

Reference is made to your letter of February 9, 1971 to our Farmington, New Mexico office concerning the two captioned wells. Both of these wells are temporarily abandoned with operations suspended. Written approval was obtained from the Commission as required by Section B of Paragraph 202. Since the wells have never been completed, Well Completion Reports have not been filed. However, the Commission has been furnished copies of logs run on the two wells as well as Sundry Reports of all work performed on the wells.

Attached for your information and reference are copies of the two forms approved by Mr. John Bannister to suspend operations and temporarily abandon the wells. We would like to continue to maintain the wells in a temporarily abandoned condition in anticipation of utilization of the wellbore for possible gas completions if a market develops in the area.

If additional information is needed, please advise.

Sincerely yours,

KERR-MCGEE CORPORATION

C. D. Williams
District Manager
Southwestern District
Production Division

CDW:kj
Attachment

February 9, 1971

Mr. Joe Breeden
Kerr-McGee Corporation
215 Petroleum Center Building
Farmington, New Mexico 87401

Re: Kerr-McGee Navajo #5
SE/4 SE/4 Sec. 31-T36N-R30E
Apache County
Our File #392

Kerr-McGee #B-1 Navajo
SE/4 NW/4 Sec. 5-T35N-R30E
Apache County
Our File #381

Dear Mr. Breeden:

Will you please advise this office of the present status of the above referenced wells. Also furnish this office with a Completion Report on each of these wells indicating formation tops and so forth.

Your prompt attention to this matter will be appreciated.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA:jd
Enc.

Operator KERR MC GEE ~~OTT~~ INDUSTRIES INC. Corporation

Bond Company Insurance Co. of N. America Amount 25,000

Bond No. M 41 95 25 (KM528) Date Approved 10-28-65

Permits covered by this bond:

<u>10</u>	<u>386</u>	<u>417</u>
<u>36</u>	<u>389</u>	<u>418</u>
<u>37</u>	<u>390</u>	<u>419</u>
<u>38</u>	<u>391</u>	<u>420</u>
<u>39</u>	<u>392</u>	<u>422</u>
<u>57</u>	<u>396</u>	<u>426</u>
<u>63</u>	<u>397</u>	<u>427</u>
<u>64</u>	<u>398</u>	<u>441</u>
<u>142</u>	<u>399</u>	<u>445</u>
<u>238</u>	<u>402</u>	<u>446</u> → see this file
<u>303</u>	<u>403</u>	
<u>90</u>	<u>404</u>	
<u>91</u>	<u>405</u>	
<u>349</u>	<u>406</u>	
<u>303</u>	<u>407</u>	
<u>377</u>	<u>408</u>	
<u>378</u>	<u>409</u>	
<u>379</u>	<u>410</u>	
<u>380</u>	<u>411</u>	
<u>381</u>	<u>413</u>	
<u>384</u>	<u>414</u>	
<u>385</u>	<u>416</u>	

CANCELLED

DATE 10-24-68

superseded by
American Casualty Co. Bond
\$25,000
#5471020-52



KERR-MCGEE CORPORATION

KERR-MCGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

215 Petroleum Center Building

Farmington, New Mexico

October 6, 1967

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

Attn: Mr. John Bannister

RE: Navajo No. 5
SE SE Sec. 31, T36N, R30E
Dineh-bi-Keyah Field
Apache Co., Arizona

Gentlemen:

Enclosed please find a copy of the logs run on the captioned well.

They are listed below:

1. Induction-Electric Log
2. Formation Density Log
3. Gamma Ray-Sonic Log

Approval was granted to suspend operations and temporarily abandon this well on July 10, 1967.

Very truly yours,
KERR-MCGEE CORPORATION


C. D. Williams
Production Supt.

CDW/hs

Enclosures

cc: WRF

392

*May
correct records*



KERR-MCGEE CORPORATION

KERR-MCGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

215 Petroleum Center Building

Farmington, New Mexico

June 5, 1967

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

Attn: Mr. John Bannister, Executive Secr.

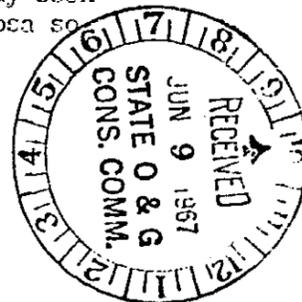
RE: 160 Acre Units
Lower Hermosa Formation
Dinch-bi-Keyah Field
Apache County, Arizona

Gentlemen:

As provided by Commission Order No. 21, oil wells in the lower Hermosa formation shall be on spacing units comprising a full governmental quarter section. Certain wells have already been permitted by Kerr-McGee Corporation with a dedicated area of only 80 acres. The quarter section allotted to each of the wells presently permitted is as follows:

WELL	PERMIT NO.	QUARTER SECTION
Navajo #1	377	SW/4 Sec. 32 - 36N - 30E
Navajo #2	379	NE/4 Sec. 32 - 36N - 30E
Navajo #3X	386	SE/4 Sec. 32 - 36N - 30E
Navajo #4	384	NE/4 Sec. 32 - 36N - 30E
Navajo #5	392	SE/4 Sec. 31 - 36N - 30E
Navajo #6	390	NE/4 Sec. 31 - 36N - 30E
Navajo #7	389	SW/4 Sec. 29 - 36N - 30E
Navajo #8	391	SE/4 Sec. 29 - 36N - 30E
Navajo #9	396	SE/4 Sec. 30 - 36N - 30E
Navajo #12	399	NE/4 Sec. 29 - 36N - 30E
Navajo "B" #1	381	NW/4 Sec. 5 - 35N - 30E
Navajo "C" #1	397	SW/4 Sec. 33 - 36N - 30E
Navajo "E" #1	398	SE/4 Sec. 20 - 36N - 30E

Two wells, Navajo "E" #1 and Navajo "B" #2 have already been drilled and did not obtain oil production in the lower Hermosa so





Attn: Mr. J. Bannister

Page 2

June 5, 1967

these wells were not included. Also, Navajo #3 was not included since it was replaced by Navajo #3X.

If additional information is needed, please advise.

Sincerely yours,
KERR-MCGEE CORPORATION

A handwritten signature in dark ink, appearing to read "C. D. Williams".

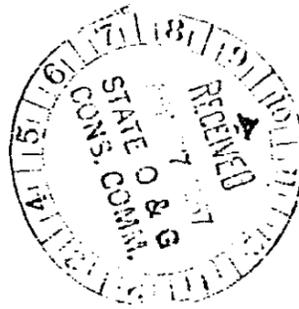
C. D. Williams
Prod. Supt.

CDW/ns



POST OFFICE BOX 27000 DALLAS TEXAS 75227

April 25, 1967



State of Arizona
Oil and Gas Conservation Commission
Room 202, 1624 West Adams
Phoenix, Arizona 85007
Attention Mr. John Beanister

Gentlemen :

It is our request that all information on producing, Drilling, and Permitted wells operated by Kerr McGee Corporation in Dinah bi Nevah Field in Apache County Arizona be kept confidential.

The producing wells are Kerr-McGee Navajo wells No.1, 2, 3X and 7. Well no. 7 has been put on pump but has not been potentialled because mechanical and transportation difficulties. Wells started but not completed are Kerr-McGee Navajo No.9 , Navajo No. B-1 and No. B-2.

Wells that have been permitted but drilling operations have not actually started are our Navajo wells No.4, 5, 6, 8 and 12, and Navajo A-1 and C-1. Most of the road and location work has been completed on these locations.

Yours very truly,
Kerr-McGee Corporation

Division Supt. Oil & Gas Production
Surrey, Texas.

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KERR-McGEE CORPORATION

POST OFFICE BOX "K" • SUNRAY, TEXAS 79086

March 28, 1967

State of Arizona
Oil and Gas Conservation
Room 202
1624 West Adams
Phoenix, Arizona

Attention: Mr. John Bannister

Gentlemen:

Enclosed are two copies of Arizona Oil and Gas Conservation Commission Form 3, Application for Permit to Drill, one copy of USGS Form No. 9-331C, Application to Drill, and two copies of Surveyors Plat for the Kerr-McGee Corporation Navajo No. 5, located 960' FSL and 910' FEL of Sec 31, T36N, R30E, Apache County, Arizona. Also enclosed is a draft of \$25.00 for the filing fee.

Yours very truly,

KERR-McGEE CORPORATION

E. C. Reish, Jr.

E. C. REISH, JR.

ECR/s

Enclosures:

