

CONFIDENTIAL
Release Date 11-24-67

RMW

KERR MC GEE #20 NAVAJO-B 385
SENE 5-35N-30E Apache County

COUNTY Apache AREA 16 mi SW Red Rock LEASE NO. Nav 14-20-0603-8889

WELL NAME Navajo State Petroleum 5/1/94
Kerr-McGee #20 Navajo-B

LOCATION SE NE SEC 5 TWP 35N RANGE 30E FOOTAGE 1820 FNL 640 FEL
ELEV 8496 GR 8509 KB SPUD DATE 4-6-67 STATUS He 3/21-67 TOTAL DEPTH 4565'
COMP. DATE 5-24-67 DEPTH PB 4544'

CONTRACTOR

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
<u>9 5/8</u>	<u>910</u>	<u>800 SKS</u>	<u>NA</u>	<u>X</u>
<u>5 1/2</u>	<u>4565 KB</u>	<u>450 SKS</u>		

DRILLED BY CABLE TOOL _____
PRODUCTIVE RESERVOIR _____
INITIAL PRODUCTION Shut in Helium

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
<u>Chuska</u>	<u>Surface</u>		<u>X</u>	
<u>Chinle</u>	<u>840'</u>			
<u>Coconino</u>	<u>1622'</u>			
<u>Cutler</u>	<u>2320'</u>			
<u>Hermosa</u>	<u>3413'</u>			
<u>Mississippian</u>	<u>4057'</u>			
<u>Devonian-Elbert</u>	<u>4229'</u>			
<u>McCracken</u>	<u>4367'</u>			
<u>Aneth</u>	<u>4460'</u>			
<u>Pre-Cambrian</u>	<u>4540'</u>			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
<u>Formation Density Log</u>	<u>3924-3935'</u>	<u>3924-3935</u>	<u>SAMPLE DESCRP. Farm Cut</u>
<u>GR Sonic, IES</u>	<u>3904-07'</u>		<u>SAMPLE NO. _____</u>
			<u>CORE ANALYSIS _____</u>
			<u>DSTs <u>X</u></u>

REMARKS Gas Well - Shut in Lower Hermosa 12.8 MCF
No sill present in this well 6-8-67 Authorized Release
of Only Certain data *no production record

APP. TO PLUG _____
PLUGGING REP. _____
COMP. REPORT X

WATER WELL ACCEPTED BY _____

BOND CO. BIA BOND BOND NO. _____
BOND AMT. \$ _____ CANCELLED _____ DATE _____
FILING RECEIPT _____ LOC. PLAT _____ WELL BOOK _____ PLAT BOOK _____
API NO. _____ DATE ISSUED _____ DEDICATION _____

PERMIT NUMBER 385

CONFIDENTIAL

Release Date 11-24-67

(over)

ARIZ.

8

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

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

DESCRIPTION OF WELL AND LEASE

Operator: **KERR-MCGEE CORPORATION** Address: **215 PETROLEUM CENTER BLDG. - FARMINGTON, NEW MEX.**

Federal, State or Indian Lease Number or name of lessor if fee lease: **14-20-0603-8899 NAVAJO "B"** Well Number: **No. 2** Field & Reservoir: **DINEH-BI-KEYAH - PARADOX**

Location: **1820' FNL & 640' FEL** County: **APACHE COUNTY, ARIZONA**

Sec. TWP-Range or Block & Survey: **Sec. 5 - T35N - R30E G. & S.R.M.**

Date spudded: **4-6-67** Date total depth reached: **4-29-67** Date completed, ready to produce: **5-24-67** Elevation (DR, RKB, RT or Gr.): **6195' GL** Elevation of casing hd. flange: **feet**

Total depth: **4565'** P.B.T.D.: **4311'** 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: **3924'-3935'** **3904'-3907'** 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? **NONE** Date filed: **NONE**

Type of electrical or other logs run (check logs filed with the commission): **INDUCTION-ELECTRIC** **GAMMA RAY-SONIC** **DENSITY LOG** Date filed: **NOT YET.**

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" CD	32.30	910' RKB	800	NONE
Production	8-3/4"	5-1/2" CD	14#	4565' RKB	450 pozmix-50 cmt.	NONE

TUBING RECORD

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
2-3/8 in.	3682 ft.	3680 ft.	NONE in.	NONE ft.	NONE ft.	NONE	NONE

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval
1	0.48 jet	3924-35'; 3904-07'	1500 gals 15% Hcl	3924-35'; 3904-07'
			7000 gals 15% Hcl	

INITIAL PRODUCTION

Date of first production: **Well Shut-In.** Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump): **Flowing**

Date of test: **5-22-67** Hrs. tested: **2** Choke size: **1/4"** Oil prod. during test: **0 bbls.** Gas prod. during test: **12.8 MCF** Water prod. during test: **Mist bbls.** Oil gravity: **NONE * API (Corr)**

Tubing pressure: **105** Casing pressure: **0** Cal'd rate of Production per 24 hrs.: **0 bbls.** Gas: **154 MCF** Water: **Est. 5 bbls.** Gas-oil ratio: **None.**

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

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

Date: **June 2, 1967**

Signature

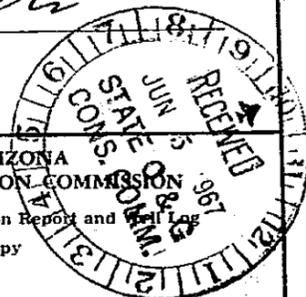
Permit No.

385

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Well Completion or Recompletion Report and Well Log

Form No. 4
File One Copy



DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
Chuska (Tertiary)	Surface	840'	WH. SS. & GRY. SH.
Chinle (Triassic)	840'	1622'	Red SH. W/thin strgs. of SS.
Coconino (Permian)	1622'	2320'	Mass. SS. W/shly. strgs. in lower 250'.
Cutler (Permian)	2320'	3413'	Sh., SS. & LS.
Hermosa (Penn)	3413'	4057'	LS. W/red & Gry. Sh., Mostly DNS. & Tight, Some thin SD. Strgs.
Mississippian	4057'	4229'	DNS. LS.
Devonian-Elbert McCracken	4229' 4367'	4367' 4460'	DNS. Dolo. & Grn. Sh. McCracken Sd. - Mostly SS. Quartzic, Some Por. w/Red Sh. & Dolo. Interlaminations.
Aneth	4460'	4540'	Mostly DNS. Dolo., Little Por., & Red Sh. Some Scattered Por.
Pre-Cambrian	4540'		Quartzite and Granite.
DST #1	3885'	3982'	Tool open 1 hr. Very weak blow thruout test. FSI 30 mins. IFP 82 psi. FFP 79 psi. FCIP 96 psi. Recovered 10' drlg mud.
DST #2	4417'	4480'	Tool open 1 hr. Strong blow thruout test. FSI 30 mins. IFP 143. FFP 182. FCIP 895 psi. Re- covered 191' gas cut mud.
DST #3	4514'	4565'	Tool open 1-1/4 hrs. Strong blow thruout test. FSI 30 mins. IFP 80 psi. FFP 146 psi. FCIP 888 psi. Recovered 100' drilling mud.
			No cushion used on any of the DST's.

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

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

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

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

Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-0603-8889	Field Dineh-BI-Keyah	Reservoir Hermosa
Survey or Sec-Twp-Rge Sec 5-T35N-R30E	County Apache	State AZ
Operator Mountain States Petroleum Corp.		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street P O Bx 1936	City Roswell,	State New Mexico 88202
Above named operator authorizes (name of transporter)		
Giant Industries Transporter's street address P O Bx 12999	City Scottsdale,	State AZ
Field address P O Bx 256 (Bloomfield Hwy) Farmington, N M 87499		
Oil, condensate, gas well gas, casinghead gas		
To transport	100% of the	oil from said lease.
OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:		
Name of gatherer	% transported	Product transported
Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change.		
Change of Oper.		

The undersigned certifies that the rules and regulations of the State of Arizona Oil & Gas Conservation Commission have been complied with in drilling and producing operations on this lease, except as noted above, and that the above transporter is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property, and that this authorization will be valid until further notice or until cancelled by the State of Arizona Oil & Gas Conservation Commission.

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Secretary of the Mountain States Petro. Corp. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Date Aug. 11, 1995

Audrey Wickelsham
Signature

Date approved: AUG 16 1995
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By: Steven L. Rainey

Permit No. 385

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

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
 Kerr-McGee Corporation

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 1820' FNL & 640' FEL
 Sec. 5, T35N, R30E

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

5. Lease Designation and Serial No.
 14-20-0603- 8889

6. If Indian, Allottee or Tribe Name
 Navajo

7. If Unit or CA, Agreement Designation
 PIN 385

8. Well Name and No.
 Navajo "B" #2

9. API Well No.
 02-001-20010

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

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

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

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

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

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

APPROVED

By SLR
Date 2/17/93



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

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

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
 Conditions of approval, if any:

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

*See Instruction on Reverse Side

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

Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-0603-8889 Navajo B	Field Dineh-Bi-Keyah	Reservoir Hermosa
Survey or Sec-Twp-Rge S5 - T 35 N - R 30 E	County Apache	State Arizona
Operator Kerr-McGee Corporation		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street P. O. Box 250	City Amarillo	State Texas, 79189
Above named operator authorizes (name of transporter) Gary-Williams Energy		
Transporter's street address 370 17th St., Suite 5300	City Denver	State Colorado 80202
Field address P. O. Box 159, Bloomfield, NM 87413		
Oil, condensate, gas well gas, casinghead gas		
To transport	100 % of the Oil	from said lease.
OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:		
Name of gatherer	% transported	Product transported
Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change.		

The undersigned certifies that the rules and regulations of the State of Arizona Oil & Gas Conservation Commission have been complied with in drilling and producing operations on this lease, except as noted above, and that the above transporter is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property, and that this authorization will be valid until further notice or until cancelled by the State of Arizona Oil & Gas Conservation Commission.

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

8/18/92
Date

H. H. Rice
Signature H. H. Rice

Date approved: 8-21-92

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By: Steven L. Rainz

Permit No. _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Operator's Certificate of Compliance & Authorization to
Transport Oil or Gas from Lease
File Two Copies
Form No. 5

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

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

5. Lease Designation and Serial No.

14-20-0603-8889

6. If Indian, Allottee or Tribe Name

Navajo

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Navajo "B" #2

9. API Well No.

02-001-20010

10. Field and Pool, or Exploratory Area

Dineh-Bi-Keyah

11. County or Parish, State

Apache Co., AZ

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Kerr-McGee Corporation

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1820' FNL & 640' FEL
Sec. 5, T35N, R30E

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

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

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

See attached



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

Signed G. Bunas Title Regulatory Specialist

Date 7-15-92

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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

*See Instruction on Reverse Side

NAVAJO B-2
Dineh-Bi-Keyah Field

FLUID LEVEL TESTING

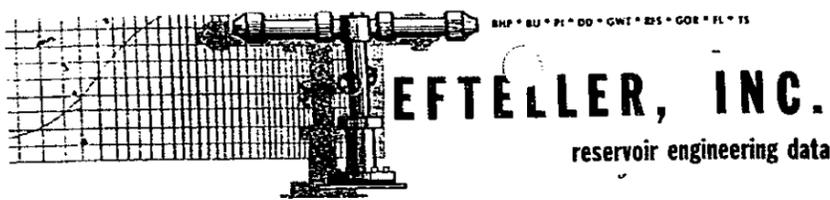
6/23/92 MI Tefteller, Inc. to shoot FL testing. RU to 2" csg valve w/Echometer FL machine. Shot several shots & interpret. FL @ 121 jts (plus/minus) 3822' RKB. SICP @ 745 psig. Well has Otis M2 retrievable pkr @ 4145' RKB. Perforations as follows:

MacCracden	4439'-4394' RKB
Aneth	4514'-4533' RKB
Hemosa-Paradox	3924'-3907' RKB
PBTD	4565' RKB

FL interpretation attached. Pressure recording chart attached.

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

SUPERVISOR: Ray Benally



MIDLAND, TEXAS / FARMINGTON, NEW MEXICO
GRAND JUNCTION, COLORADO

P. O. Box 5278
Midland, Texas 79704-5278
(915) 694-0477

Midland Fax (915) 694-7602
Farmington Fax (505) 325-1148
Grand Junction Fax (303) 241-7634

June 23, 1992

Kerr-McGee Corporation
Box 250
Amarillo, TX 79189

Attention: Mr. Ray Sutterfield

Subject: Fluid Level Measurement
Navajo No. B-2
Dineh Bi Keyah Field
Apache County, Arizona
Our File No. 2-23836-FL

Dear Mr. Sutterfield:

Attached hereto are the results of fluid level measurements which were conducted on the above captioned well June 23, 1992.

The data presented are in tabular form.

It has been our pleasure to have conducted this service for you. If we may be of further assistance, please call us at any time.

Respectfully submitted,

TEFTELLER, INC.

Neil Tefteller

NT/lw

lcc: Kerr-McGee Corporation
Attn: Mr. Ray Benally
Box 2218
Farmington, NM 87499

RECEIVED

JUN 26 1992

Panhandle/Mid-Con. District

TEFTELLER, INC.

RESERVOIR ENGINEERING DATA AND PRODUCTIVITY ENHANCEMENT SERVICES
MIDLAND, TEXAS • FARMINGTON, NEW MEXICO • GRAND JUNCTION, COLORADO

TEST DATA

1992 DATE	TIME	LEASE AND WELL NUMBER	STATUS OF WELL	STROKES PER MINUTE	CASING PRESSURE PSI	AVERAGE TUBING LENGTH FEET	NUMBER JOINTS TO FLUID	NUMBER JOINTS IN WELL	FLUID LEVEL FEET
6-23		Navajo B-2	Shut-in 4 years		745	31.59	123	131	3886

Packer set at 4145'

Perforations 3907-3924

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. 14-20-0603-8889
2. Name of Operator Kerr-McGee Corporation	6. If Indian, Allottee or Tribe Name Navajo
3. Address and Telephone No. U.S. Onshore Region, P. O. Box 25861, Oklahoma City, OK 73125	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1820' FNL & 640' FEL Sec. 5, T35N, R30E	8. Well Name and No. Navajo "B" #2
	9. API Well No. 02-001-20010
	10. Field and Pool, or Exploratory Area Dineh-Bi-Keyah
	11. County or Parish, State Apache Co., AZ

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

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

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

In regard to the attached sundry notice, Kerr-McGee requests approval to do a fluid level survey instead of the approved casing integrity test. The well currently has a packer set at 4145' isolating the McCracken perforations (4394-4444') from the Hermosa perforations (3904-3935'). If a casing integrity test were to be done, the packer would have to be removed from the well. Currently, it is costing us about \$5,000/well to do the integrity tests and if we should have trouble retrieving the packer, it could greatly increase our costs and possibly force us to plug and abandon the well.

approved per letter 8/6/92



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

Signed G. Bunas Title Regulatory Specialist Date 5-29-92

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

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

*See Instruction on Reverse Side

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Kerr-McGee Corporation

3. Address and Telephone No. 405/270-6023

U.S. Onshore Region, P. O. Box 28561, Oklahoma City, OK 73125

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1820' FNL & 640' FEL
Sec. 5, T35N, R30E

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

5. Lease Designation and Serial No.
14-20-0603-8889

6. If Indian, Allottee or Tribe Name
Navajo

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Navajo "B" #2

9. API Well No.
02-001-20010

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

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

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

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

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

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

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

RECEIVED
BLM
92 MAR -2 PM 12:55
019 FARMINGTON, N.M.

THIS APPROVAL EXPIRES DEC 31 1992

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

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

(This space for Federal or State office use)

Approved by _____ Title _____
Conditions of approval, if any:

APPROVED

MAR 10 1992

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

for AREA MANAGER

*See Instruction on Reverse Side

OPERATOR

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
 Kerr-McGee Corporation

3. Address and Telephone No.
 405/270-6023

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 U.S. Onshore Region, P. O. Box 28561, Oklahoma City, OK 73125
 1820' FNL & 640' FEL
 Sec. 5, T35N, R30E

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

5. Lease Designation and Serial No.
 14-20-0603-8889

6. If Indian, Allottee or Tribe Name
 Navajo

7. If Unit or CA, Agreement Designation

8. Well Name and No.
 Navajo "B" #2

9. API Well No.
 02-001-20010

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

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

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

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

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

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

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

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

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

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

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

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

*See Instruction on Reverse Side

P/N 385

STATE OF ARIZONA
OIL AND GAS CONSERVATION COMMISSION

PERMIT 385

REPORT ON PROPOSED OPERATIONS

Kerr-McGee Corporation
U. S. Onshore Region, Box 25861
Oklahoma City, OK 73125

Phoenix, _____, ARIZONA
June 1, 1988

Your _____ proposal to flow test _____ well No. 2 Navajo-B _____,
A.P.I. No. 02-001-20010 _____, Section 5 _____, T. 35N. _____, R. 30E. _____, G&SR B. & M. _____,
Dineh-Bi-Keyah _____ field, _____ area, McCracken/Aneth/Hermosa pool,
Apache _____ county, dated 5/27/88 _____ received 5/31/88 _____ has been examined in
conjunction with records filed in this office.

THIS PROPOSAL IS APPROVED PROVIDED:

1. Adequate blowout prevention equipment is installed, tested, used and maintained in good working condition throughout the testing of the well.
2. Complete results of the flow test are filed with Commission within 30 days after completion of such test.

D. J. BRENNAN, Executive Director

BOND Blanket

By R. A. Ybana
Enforcement Director

A COPY OF THIS REPORT AND THE PROPOSAL MUST BE POSTED AT THE WELL SITE PRIOR TO COMMENCING OPERATIONS.

RECORDS FOR WORK DONE UNDER THIS PERMIT ARE DUE WITHIN 30 DAYS AFTER THE WORK HAS BEEN COMPLETED OR THE OPERATIONS HAVE BEEN SUSPENDED.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on
reverse side)

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-0603-8899	
2. NAME OF OPERATOR Kerr-McGee Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo	
3. ADDRESS OF OPERATOR U.S. Onshore Region, Box 25861, Oklahoma City, OK 73125		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 1820' FNL & 640' FEL		8. FARM OR LEASE NAME Navajo "B"	
14. PERMIT NO. 385 AZ		9. WELL NO. 2	
15. ELEVATIONS (Show whether DF, ST, GR, etc.) 8496' GR		10. FIELD AND POOL, OR WILDCAT Dineh-Bi-Keyah	
		11. SEC., T., R., N., OR BEK. AND SURVEY OR AREA Sec. 5-T35N, R30E	
		12. COUNTY OR PARISH Apache	
		13. STATE AZ	

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input 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) Flow test well <input checked="" type="checkbox"/>			

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

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

Kerr-McGee Corporation requests approval to flow test the above well for seven days at ±500 MCF/D. The zones to be tested are the Hermosa Parradox, McCracken and Aneth. The gas will be vented as its hydrocarbon content is too low to sustain a flare. The test is necessary to accurately estimate the field deliverability of helium. A seven day BHP survey will be run immediately after the flow period.

Two CIBP's will have to be drilled out to test this well. See attached wellbore schematic and workover procedure.

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

SIGNED [Signature] TITLE Analyst II DATE 5/27/88

(This space for Federal or State office use)

APPROVED BY [Signature] TITLE Ent. Director DATE 5/31/88

CONDITIONS OF APPROVAL, IF ANY:

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

*See Instructions on Reverse Side

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

NAVAJO B-2
 Section 5-35N-30E
 Apache Co., AZ

WELL SCHEMATIC	CASING	Size	Weight	Grade	Tool Joint	Depth
			9 5/8	32.8	H-40	ST&C 8rd
	CASING	5 1/2	14	J-55	ST&C 8rd	4565
	TUBING	2 3/8	4.7	J-55	EUE 8rd	3862
	TUBING					
	DESCRIPTION OF EQUIPMENT					DEPTH
	9 5/8" csg.					910 ✓
	Baker Model 'G' compression packer set with 12,000#					3860
	Hermsa-Paradox perfs 3924-35, 3904-07 1SPF					
	Baker Model 'N' CIBP @ 4354 Capped with 5 sx cmt					
	McCracken perfs 4439-44, 4394-4428 1SPF					
	Baker Model 'N' CIBP @ 4507' capped with 4 sx cmt					
	Aneth perfs 4514-33 1 SPF					
	5 1/2" csg					4565
	Prepared By					Date
	S. R. Drost <i>SRDrost</i>					5-5-88

Navajo B-2
Workover Procedure

1. MIRU workover unit.
2. Kill well with 2% KCl water.
3. ND tree. NU BOP's.
4. Release Baker Model 'G' packer.
5. TOOH with 2 3/8" 4.7# J-55 tbg and packer.
6. TIH with 4 3/4" bit, 5 1/2" scraper, DC's and 2 3/8" tubing.
7. Drill out CIBP's at 4354' and 4507'. Clean wellbore out to 4550'. TOOH.
8. TIH with redressed packer and 2 3/8" tubing. Set packer at 4400'.
9. Flow test McCracken and Aneth zones through tubing. Flow test Hermosa Parradox up casing. Flow tests are to be run for $\frac{5}{7}$ days. Try to maintain constant flow rates.
10. RIH with tandem Amerada style pressure bomb (max. pressure 1200 psi). Hang bombs off. Record FBH pressure. Shut well in for 7-day buildup.
11. Pull bombs out of hole and shut well in.

S. R. Drost *SRDrost*

SRD218:afj46
May 16, 1988

AIR MAIL

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

Federal, State or Indian Lease Number, or lessor's name if fee lease Navajo ¹⁴⁻²⁰⁻⁰⁶⁰³⁻⁸⁸⁸⁹	Field Dineh-bi-Keyah	Reservoir Lower Hermosa (Intrusive)
Survey or Sec-Twp-Rge Sec. 5, T35N, R20E G&SRM	County Apache	State Arizona
Operator Kerr-McGee Corporation		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street 215 Petroleum Center Bldg.	City Farmington	State New Mexico 87401
Above named operator authorizes (name of transporter) Kerr-McGee Pipeline Corp.		
Transporter's street address Kermac Bldg.	City Oklahoma City,	State Oklahoma 73102
Field address P.O. Box 989 Farmington, New Mexico 87401		
Oil, condensate, gas well gas, casinghead gas		
To transport	100 % of the Oil	from said lease.
OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:		
Name of gatherer	% transported	Product transported
Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change. New lease.		

The undersigned certifies that the rules and regulations of the State of Arizona Oil & Gas Conservation Commission have been complied with in drilling and producing operations on this lease, except as noted above, and that the above transporter is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property, and that this authorization will be valid until further notice or until cancelled by the State of Arizona Oil & Gas Conservation Commission.

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

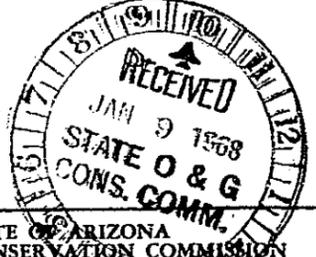
1-6-68
Date

[Signature]
Signature

Date approved: 1-9-68

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By: John Bannister

Permit No. 445
2-Arizona ✓
2-USGS
1-Tribe; 1-JIF; 1-WRF; 1-RF
385
445



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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

ALLOTTEE NAVAJO
TRIBE 14-20-060308821
LEASE NO. _____

LESSEE'S MONTHLY REPORT OF OPERATIONS NAVAJO B 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. Company Berr-McGee Corporation
Farmington, New Mexico Signed [Signature]
Phone 327-9637 Agent's title Production Supt.

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE 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)
SENW5	35N	30E	1	None						Cleaned out nitroglycerin shot hole to 3750'. Attempts to establish production by swabbing & bailing where unsuccessful. Suspended operations 6-20-67.
SENE5	35N	30E	2	None						Shut-in gas well.

385



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

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.



KERR-MCGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

215 Petroleum Center Building
Farmington, New Mexico

June 8, 1967

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

Attn: Mr. John Bannister, Exec. Secretary

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

Dear John:

In a telephone conversation with your office today, we were made aware of the fact that the permit to drill for certain wells in the Dineh-bi-Keyah Field would expire in the near future since drilling operations would not commence within the allowed period of 90 days, after date of approval. These wells are:

WELL	PERMIT NO.	DATE OF APPROVAL
Navajo #4	384	3-9-67
Navajo #8	391	3-30-67
Navajo #12	399	4-24-67
Navajo "C" #1	397	4-24-67

This letter is to confirm my verbal request that the permit time for these four wells be extended an additional 90 days. Due to the changing geological interpretation with the drilling of each well, it is desirable to postpone the drilling of these wells at this time. These locations will probably be drilled at a later date and we would like to keep the permits active. Your consideration of this request will be appreciated.

Confirming my telephone conversation with Mr. Jim Scurlock, Kerr-McGee authorizes the Commission to release certain well information that has been requested held confidential. The Commission may release, if desired, (1) the total depth, perforations, and initial potential for the Navajo #3X, #7, and #9 wells, (2) for



5 385



KERR-MCGEE CORPORATION

KERR-MCGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

Mr. John Bannister
June 8, 1967
Page 2

Navajo "B" #1 release perforations only and the fact that we are still testing, (3) for Navajo "B" #2, the total depth, drill stem test results, perforations in the Paradox completion zone (3904'-3907', 3924'-35') and that the well flowed 98 MCF on 1/8" plate with 300 psi on test during completion.

Your assistance and cooperation in these matters is very much appreciated.

Sincerely yours,
KERR-MCGEE CORPORATION

C. D. Williams
C. D. Williams
Prod. Supt.

cc: J. I. Fisher
File
RF

6

385

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R7144.

ALLOTTEE _____
TRIBE _____
LEASE No. NAVAJO

LESSEE'S MONTHLY REPORT OF OPERATIONS LEASE No. 14-80-0603-8699

State ARIZONA County APACHE Field CHISE-BI-TIAH
The following is a correct report of operations and production (including drilling and producing wells) for the month of MAY, 1967.
Agent's address 215 PETROLEUM CENTER BLDG. FARMINGTON, NEW MEXICO 87401 Signed [Signature] Company HERNANDEZ CORP.
Phone 327-9637 Agent's title _____

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL No.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	PRODUCTION SURF. WATER (If none, so state)	REMARKS (If drilling depth; if shut down, cause; date and result of test for gas; content of gas)
SE NW 5	35N	30E	1	NONE						Squeezed perf from 3710'-3766'. Drilled below 7" casing to 4130'. No show. Plug back to 3700'. Perf, treat and test interval 366'-90'. Clean out hole to 3780'. Shot well with 340 quarts of nitro-glycerin from 3752'-3666'. Now cleaning out shot hole.
SE NW 5	35N	30E	2	NONE						T.D. 4565'. Set 5-1/2" casing at 4565'. Tested intervals 1) 4514'-4533' 2) 4439'-4446' and 4394'-4428' and 3) 3924'-3935' and 3964'-3907'. Completion as shut-in gas well from 3924'-3935' and 3964'-3907'. PWD 4311'.

PLEASE KEEP THIS INFORMATION CONFIDENTIAL.



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

141

385

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THIS CATEGORY
(Other instructions on reverse side)

Form approved
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/>	5. LEASE DESIGNATION AND SERIAL NO. 14-20-0603-8899
2. NAME OF OPERATOR KERR-MCGEE CORPORATION	6. IF INDIAN, ALLOTTEE OR TRIBE NAME NAVAJO
3. ADDRESS OF OPERATOR 215 PETROLEUM CENTER BLDG. - FARMINGTON, NEW MEXICO	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 SE NE SEC. 5 - T35N - R30E	8. PART OR LEASE NAME NAVAJO "B"
14. PERMIT NO. State No. 385	9. WELL NO. NO. 2
15. ELEVATIONS (Show whether OP, BT, GR, etc.) 8496' GR	10. FIELD AND POOL, OR WILDCAT Dinah-Bi-Kayah
	11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA Sec. 5, T35N, R30E
	12. COUNTY OR PARISH 13. STATE Apache Arizona

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

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

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

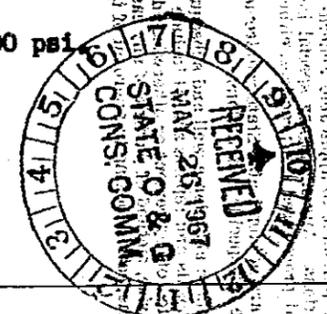
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent data, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to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

Results

After testing interval 4514'-4533', a 5-1/2" Baker Model "M" wireline casing bridge plug was set at 4507'. Dumped 5 sacks of cement on top of plug for a plug back total depth of 4464'. Perf 4439'-4444' and 4394'-4428' with 1 jet per ft. Acidized with 1000 gals 3% HF1 - 12% HCl super mud acid. Break down press. 3100 psi. Treating press. 1500 psi. Used 40 ball sealers. Swab tested well. Frac zone with 41,560 gals retarded 3% HCl acid with 40,000 10-20 sand. Max. treating press 2400 psi. Min. treating press. 1600 psi.

Results

Show?



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

SIGNED [Signature] TITLE PRODUCTION SUPT. DATE 5-25-67

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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

385

*See Instructions on Reverse Side

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.
14-20-0603-8899

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
NAVAJO "B"

9. WELL NO.
NO. 2

10. FIELD AND POOL, OR WILDCAT
DINEN-BI-KEYAH

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SEC. 5, T35N, 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
SE NE SEC. 5-T35N-R30E.

14. PERMIT NO.
State No. 385

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
8496' GR

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

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

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

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

Results
After testing interval 4439'-4444' and 4394'-4428', a 5-1/2" Baker Model "F" Cast Iron Bridge Plug was set with wireline at 4354. Dumped 5 sacks of cement on top of plug for a PFTD of 4311'. Press casing to 1800 psi. Hold OK. Perf 3924'-3935' and 3904'-3907' with 1 jet/ft. Swab tested. Acidized with 1500 gals. 15% HCl Acid. Used 14 ball sealers. Max. treating press. 3400 psi. Min. treat press. 2500 psi. Swab tested well. Frac with 7000 gals 15% HCl Acid containing 52.5% I-5 retarder and 70# J-2 friction reducer. Max. treat press. 3500 psi. Min. treat press 2800 psi.

18. I hereby certify that the foregoing is true and correct.
SIGNED [Signature] TITLE Production Supt. DATE 5-25-67
(This space for Federal or State office use)

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

USGS-2
Aris-2
Tribe-1
JIP-1
MFP-1
V-1

385

*See Instructions on Reverse Side



Form 9-331
(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.)

5. LEASE DESIGNATION AND SERIAL NO. **14-20-0603-8889**

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

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME **NAVAJO "B"**

9. WELL NO. **NO. 2**

10. FIELD AND POOL, OR WILDCAT **Hish-bi-Keyah**

11. SEC. T., R., M., OR BLM. AND SURVEY OR AREA **Sec. 5, T35N, R30E**

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR **KERR-MCGEE CORPORATION**

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface **1820' FNL & 640' FEL of Sec. 5, T35N, R30E
Apache County, Arizona**

14. PERMIT NO. **State No. 385** 15. ELEVATIONS (Show whether DF, RT, GR, etc.) **8496' GR**

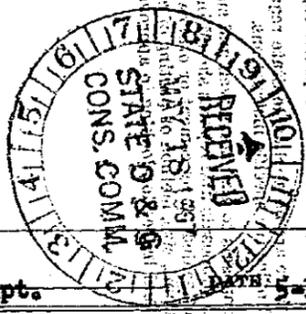
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input checked="" type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input 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 checked="" type="checkbox"/> Test of production casing	
(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.)

Drilling 8-3/4" hole to 4565'. Set 5-1/2" O.D., 1 1/4"/ft, 8rd, J-55, S&C casing at 4565' RKB. Cemented with 450 sxs 50-50 Pozmix w/4% gel & 1/16 floccie/sx followed by 50 sxs neat cement. Wait on Cement 12 hrs. Tested casing to 1500 psi for 30 minutes. Held OK. PBTD: 4514'. Perf casing with 1 jet/ft. (0.56" hole) from 4514'-4533'. Acidized with 2000 gals 15% H Cl acid. Maximum press. 3100 psi. Swabbed dry. Frac with 10,000 gals. 15% H Cl containing 75 gals. I-3 retarder, 100 J-2 friction reducer and 16 rubber balls. Maximum press. 2800 psi.

Shows?



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

SIGNED [Signature] TITLE Production Supt. DATE 5-16-67

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

12 385

5-2-67

Bud Williams - Kerr-McGee Div. Prod. Super
2nd Floor (Rm 215)

Petroleum Center Bldg (old Pan-Am office
ph (505) 327-9637 at Apache & Air Port Dr.?)

Sunray will send in Apl production - then
Farmington will take over

B-2 T.D. 4565'

5 1/2" csg. set to T.D.

Appl. top Cocaine 1622'

Hermosa 3412'

Miss. 4056'

No sill found in B-2 - was present in B-1
will move rig back to B-1

E-1 Spud 10:00 AM 4-29-67

9 5/8" sur. csg. set to 253'

Vly @ 316'

#7 Producing to No. 1 location

#9 TD 3720' (Drillers) 7" casing to 3712'

Perforated 3420'-3460' 1-shot per ft

acidized 1680 gals 3% hydrofluoric acid / ball sealers

fracked (5-1-67) 30,000 gal oil, 15,000 lbs sand

1300# pressure - re-perforated to 4 shots per ft

soak 46 Bls in 1 hr. Switching 5-2-67

PB TD 3649'

378

B

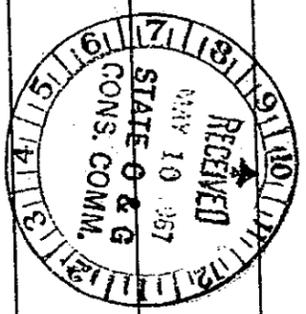
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-2356.5.
LAND OFFICE Farmington, New Mex.
LEASE NUMBER 14-20-0603-6899
UNIT NAVAJO B LEASE

LESSEE'S MONTHLY REPORT OF OPERATIONS

State ARIZONA County APACHE Field DISEN - BI - KILAH
The following is a correct report of operations and production (including drilling and producing wells) for the month of APRIL, 19 67
Agent's address 215 PETROLEUM CENTER BLDG. FARMINGTON, N.M. MEXICO Company HEER-WOEL CORP.
Signed [Signature]
Phone 327-9637 Agent's title PRODUCTION SUPT.

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE 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)
<u>SE/NE/5</u>	<u>35N</u>	<u>30E</u>	<u>1</u>	<u>NONE</u>	<u>- Drilling 8-3/4" hole to 3850' casing at 3850' with 100 sacks neat cement. Perf. csg 3710' - 3746' and acidized with 900 gals. 10% acetic acid and 1500 gals. 3% HF1 acid. Free with 30,000 oil and 15,000 sand. In 7 days swabbing recovered 507 bbls load oil.</u>					<u>Set 7" 20', J-55, STAC Formix 90-50 w/40 gel and 50 sacks</u>
<u>SE/NE/5</u>	<u>35N</u>	<u>30E</u>	<u>2</u>	<u>NONE</u>	<u>- Spudded 4-6-67. Drilling 13-3/4" hole to 910'. Set 9-5/8", 12.30' H-40 STAC casing at 910' HES with 800 sacks cement. Drilling 8-3/4" hole to 4565'.</u>					<u>Drilling 13-3/4" hole to 910'</u>



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

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.

WELL SITE CHECK

By J.B
Date 4-20-67

Contractor Pico Drilling Co Person(s) Contacted _____

Spud Date _____

Type Rig Null. 20 Rotary Cable Tool _____ Present Operations _____

Samples _____ Dlg @ 3735

Pipe _____ Drilling with Air _____ Mud

Water Zones _____ Size Hole _____

Lost Circ. Zones _____ Size Drill Pipe _____

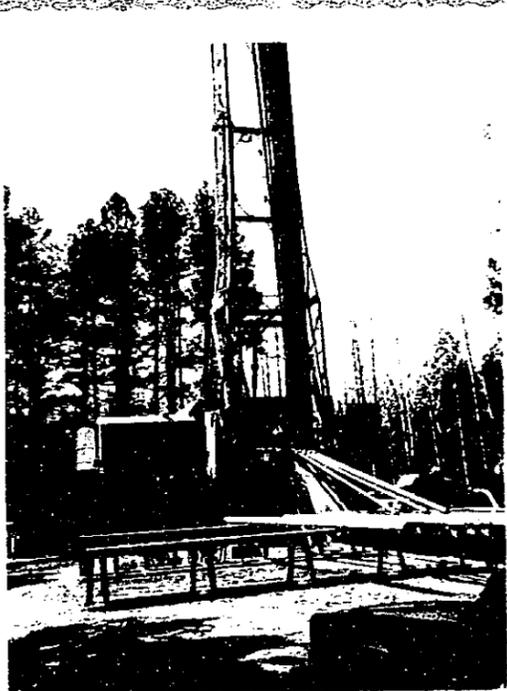
Formation Tops Coconino 1624' Type Bit _____
Hermosa - 3445'

Cores, Logs, DST _____ No. Bit 9 Drilling Date _____

Formation _____

Crews _____ Lithology _____

REMARKS, PHOTO, MAP



Rig making good time, probably
fastest well to date by Herr-McGee
Charlie Hassenfratz - KM geologist
Carl Sweetfield - KM Dlg. Super.
Staying at Glencliff - most
hands at Travelodge
Approx 2 hrs. to field from
Farmington.
No Permit No on sign
Pumpers generally working
24 hr. on - 24 hr. off.

Will probably go tight.

WELL NAME Kerr-McGee #2B Navajo
SENE 5-35N-30E
1820 FNL - 640 FEL

Permit No. 385
Confidential: No

Kerr-McGee

Otto Burton phone 4-17-67

B-2

Spudded 4-6-67 11 AM
13 3/4" hole to 918'
set 9 5/8" (32lb) to 910' w 800 Sz
circulated out 25 Bls
FD Drilling (4-17-67) 2881' 8 3/4" hole

#7

Fracked 4-16-67 looks good
results 2 or 3 days

#4

Spudded 4-13-67 5:30 PM
15" hole to 420'
Set 9 5/8" (32lb) to 405' w 520 sz
circulated out 22 Bls
drilled out from under surface 4-16-67
FD Drilling (4-17-67) 1107' 8 3/4" hole

2 Rigs running
Tank farm to be in NE/4 29-36N-3DE
Surveying for pipe line

Prod. averages - 6600-6700.

#1 600-700

2 2800-2900

3A 2800-2900

(1 day made 3200)

15
382

From the Desk of

JOHN BANNISTER

4-11-67

Telephone - Otto Barton

B-2

Plg at 1749'

Having trouble of keeping
hole straight

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THE MANNER INDICATED
(Other instructions on reverse side)

Form approved
Budget Bureau No. 42-B1494

5. LEASE DESIGNATION AND SERIAL NO.
14-20-0603-899

6. INDIAN, ALLOTTEE OR TRIBE NAME
Maya Jo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Maya Jo

9. WELL NO.
E-2

10. FIELD AND POOL, OR WILDCAT
Blanch bi Keyan

11. SEC. T., R., M., OR BLM, AND SURVEY OR AREA
Sec 5, T12N, 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
P.O. Box K, Surrency, Texas 79086

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

1,820' FNL and 640' FEL of Section 5, T35N, R30E, Apache County, Arizona

14. PERMIT NO.
State No 386

15. ELEVATIONS (Show whether DF, RT, OR, etc.)
8,496' 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"/>	WATER SHUT-OFF	<input checked="" type="checkbox"/>
FRACURE TREAT	<input type="checkbox"/>	FRACURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
(Other)	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
		ABANDONMENT	<input type="checkbox"/>
		(Other) Spud Date and Casing Test	<input checked="" type="checkbox"/>

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

Spudded at 11 AM, 4-6-67. Drilled 13 3/4" hole to 918'. Set 9 5/8" OD, 22 3/4' R., H-40, ST&C casing at 910' RKB. Cemented with 800 sacks of cement plus 2% calcium chloride and 1/4% of floccs per sack. Circulated out 25 sks of cement. Plug down at 2:30 AM, 4-9-67. After waiting on cement 13 hours, tested casing with 1,000# for 30 minutes. Held alright. Drilling 8 3/4" hole now.

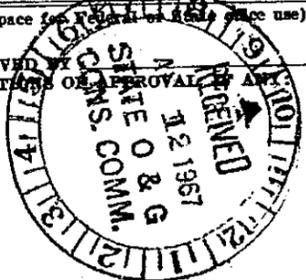
18. I hereby certify that the foregoing is true and correct

SIGNED *E. G. Breden* TITLE Engineer

DATE April 10, 1967

(This space for Federal or State use)

APPROVED _____ TITLE _____
CONDITIONS OF APPROVAL



*See Instructions on Reverse Side

385

14

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THIS MANNER
(Other instructions on reverse side)

Form approved
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.
11-20-0603-8889

6. INDIAN ALLOTTEE OR TRIBE NAME
Navajo

7. LEASE AGREEMENT NAME
Navajo

8. FARM OR LEASE NAME
Navajo

9. WELL NO.
B-2

10. FIELD AND POOL OR WILDCAT
B-2

11. SEC. T., R. 36M. S. 30E. AND
S. 30E. 5-T35N-R30E

12. COUNTY OF 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
P.O. Box K, Sunray, Texas 79086

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
1820' FNL and 640' FEL of Section 5 - T35N - R30E,
Apache County, Arizona

14. PERMIT NO.
State Number 385

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
8496' GR

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

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

(Note: Report results of multiple completion in 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.)

Change in plans of proposed casing and cementing program from 10 3/4" hole and 10 3/4" OD, 32.75#/ft surface casing set at 300' to a 9 5/8" hole with 9 5/8" OD, 36#/ft surface casing set at 800'. Will cement with sufficient amount to circulate.

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

SIGNED E. C. Reilly, Jr. TITLE Engineer

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:



*See Instructions on Reverse Side

385

17

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1A. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. 14-20-0603-8889	
1B. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTED OR TRIBE NAME Navajo	
2. NAME OF OPERATOR Kerr-McGee Corporation			7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P.O. Box K, Sunray, Texas			8. FARM OR LEASE NAME Navajo	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1820' PNL and 640' FEL of Section 5, T35N, R30E Apache County, Arizona At proposed prod. zone Same as above			9. WELL NO. B-2	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 16 miles SW of Red Rock, Arizona			10. FIELD AND POOL, OR WILDCAT Wildcat	
10. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	640'	16. NO. OF ACRES IN LEASE 2,533	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.	2485'	19. PROPOSED DEPTH 3,800'	20. ROTARY OR CABLE TOOLS 3-8-67	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 8,491' GR			22. APPROX. DATE WORK WILL START*	

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13 3/8"	10 3/4"	32.75	300'	Sufficient to circulate Sufficient to cover all potentially productive zones.
8 3/4"	7"	20	3,800'	

Blowout Preventors: 300' - 3,800'

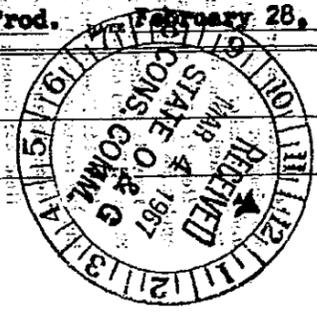
1. Kill and choke manifold.
2. 10" Series 600 QRC or equivalent with pipe rams.
3. 10" Series 600 QRC or equivalent with blind rams.

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 W. H. Barton TITLE Div. Supt. Oil & Gas Prod. February 28, 1967
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY:

385



APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

APPLICATION TO DRILL

RE-ENTER OLD WELL

Kerr-McGee Corporation <small>NAME OF COMPANY OR OPERATOR</small>		
P.O. Box K <small>Address</small>	Sunray <small>City</small>	Texas <small>State</small>
Drilling Contractor <small>Address</small>		
DESCRIPTION OF WELL AND LEASE		
Federal, State or Indian Lease Number, or if fee lease, name of lessor 14-20-0603-8889 Navajo	Well number B-2	Elevation (ground) 8,491'
Nearest distance from proposed location to property or lease line: 640 feet	Distance from proposed location to nearest drilling completed or applied—for well on the same lease: 2485 feet	
Number of acres in lease: 2533	Number of wells on lease, including this well, completed in or drilling to this reservoir: two	
If lease, purchased with one or more wells drilled, from whom purchased: Name Address		
Well location (give footage from section lines) 1820' FNL and 640' FEL	Section—township—range or block and survey Section 5, T35N, R30E	Dedication (Comply with Rule 105) E/2 NE/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: 3800'	Rotary or cable tools Rotary	Approx. date work will start 3-8-67
Bond Status Blanket Bond	Organization Report On file On File 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 Div. Supt. Oil & Gas Prod. of the Kerr-McGee Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

[Signature]

February 28, 1967
Date

Permit Number: 385
 Approval Date: 3-9-67
 Approved By: *[Signature]*

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

Form No. 3



API 02-001-20010

(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
	<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 _____ <i>(Signature)</i> Position _____ Div. Supt. Oil & Gas Prod. Company _____ Kerr-McGee Corporation Date _____ February 28, 1967</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
10 3/4"	32.75	J-55	0	300'	0 - 300'	Sufficient to circulate.
7"	20	J-55	0	3,800'	Sufficient to cover all potentially productive zones	



PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION,
STATE OF ARIZONA,

To: Kerr-McGee #2B Navajo
(OPERATOR)

to drill a well to be known as

Kerr-McGee #2B Navajo
(WELL NAME)

located 1820' FWL and 640' FWL (SE NE)

Section 5 Township 35N Range 30E Apache County, Arizona.

The E/2 NE/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 9th day of March, 19 67.

OIL AND GAS CONSERVATION COMMISSION

By John W. Gannister
EXECUTIVE SECRETARY

PERMIT **Nº** 385

RECEIPT NO. 9479

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

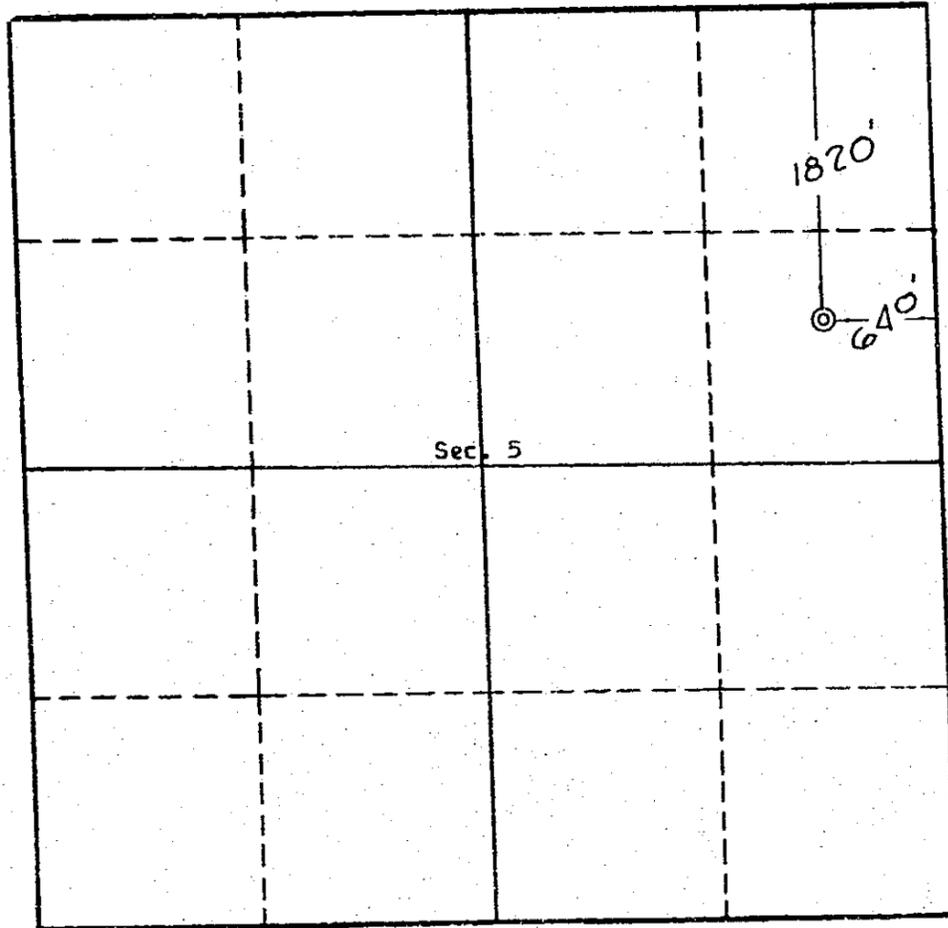
Company KERR-McGEE OIL INDUSTRIES, INC.

Well Name & No. B-2 Nava Jo

Location 1820 feet from the North line and 640 feet from the East line.

Sec. 5, T. 35 N., R. 30 E., G. & S. R. M., County Apache, Arizona

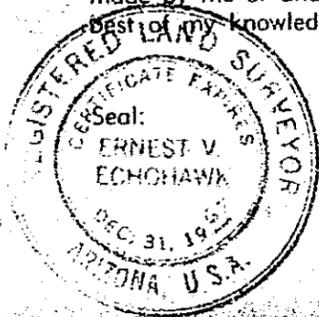
Ground Elevation 8496



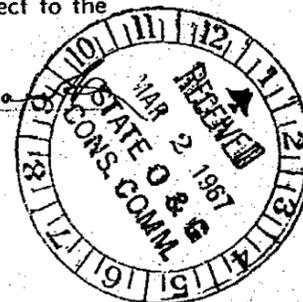
Scale, 1 inch = 1,000 feet

Surveyed February 22, 1967

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



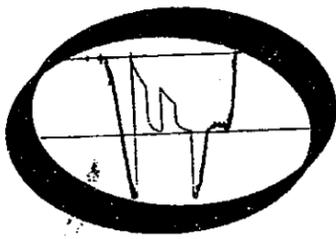
Ernest V. Echohawk
Ernest V. Echohawk
Registered Land Surveyor
Arizona Registration No. 2311



3F#
21

Formation Testing Service Report

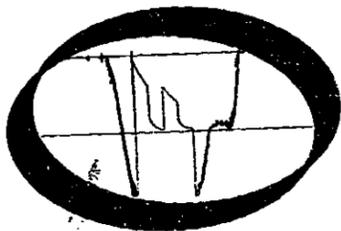
385



#385

Formation Testing Service Report

385



HALLIBURTON COMPANY
DUNCAN, OKLAHOMA

385

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.
P_o	= Potentiometric Surface (Fresh Water *)	Feet
Q	= Average Adjusted Production Rate During Test	bbls/day
Q₁	= Theoretical Production w/Damage Removed	bbls/day
Q_g	= Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r_w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t_o	= 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.

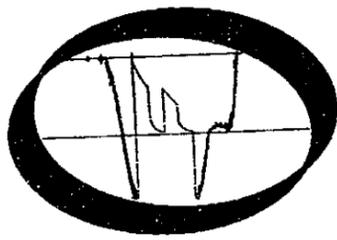
Each Horizontal Line Equal to 1000 p.s.i.

DINEH-BI-KEYAH FIELD

Corporation

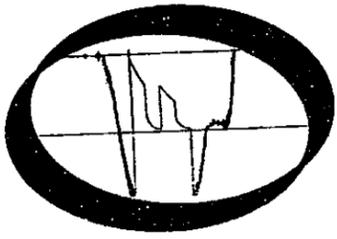
NAVAJO-
 Apache County

Formation Testing Service Report

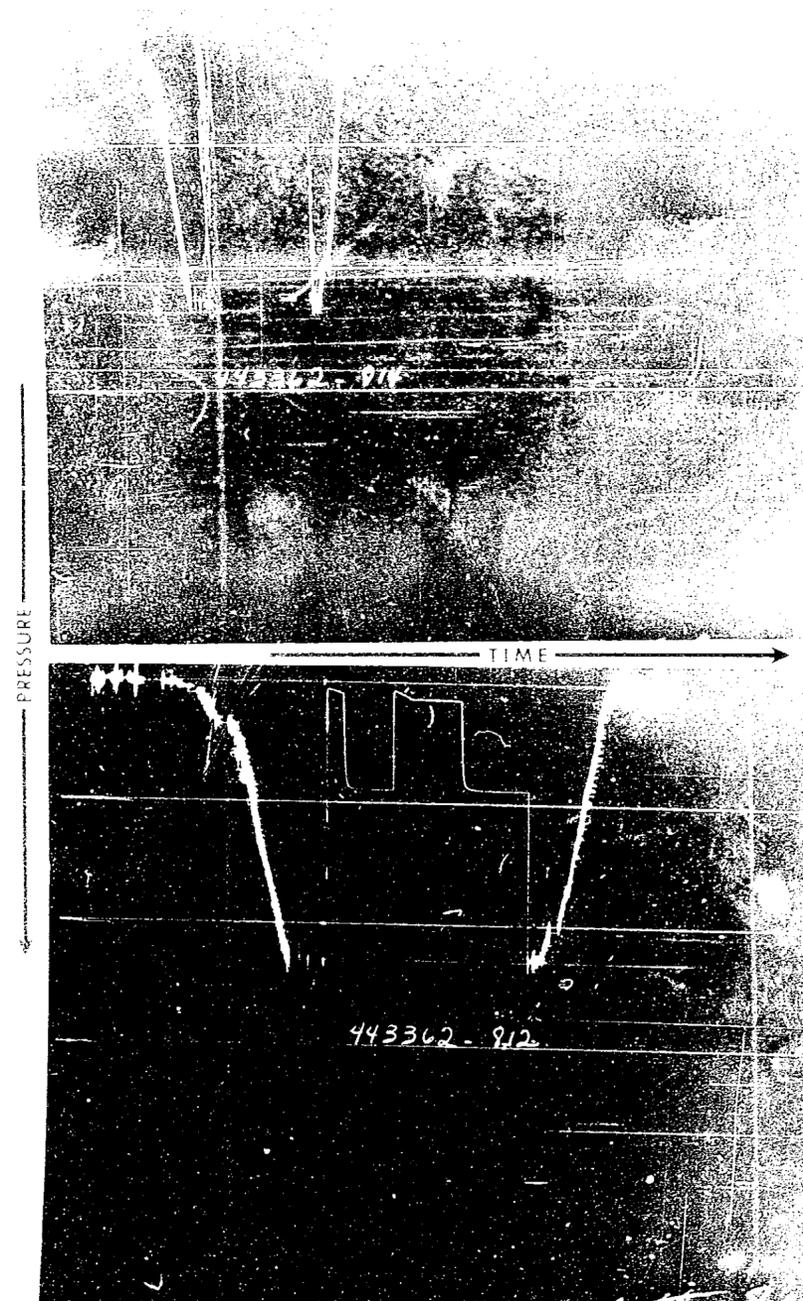


HALLIBURTON COMPANY
DUNCAN, OKLAHOMA

Formation Testing Service Report



HALLIBURTON COMPANY
DUNCAN, OKLAHOMA



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

Time	Pressure	Notes
0.0	0	Start of test
0.1	1000	Pressure rise
0.2	2000	Peak pressure
0.3	1000	Pressure fall
0.4	0	End of test

EXPERIMENTAL DATA
 SPECIAL PROCEDURE DATA

385

Gauge No. 814		Depth 4496'		Clock 24 hour		Ticket No. 443362			
First Flow Period		Initial Closed In Pressure		Second Flow Period		Final Closed In Pressure			
Time Diff. .000"	PSIG Temp. Corr.	Time Diff. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Diff. .000"	PSIG Temp. Corr.	Time Diff. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
P ₀	.000 31	.000		76	.000	52	.000		128
P ₁	.0098 38	.0153		838	.050	115	.0203		846
P ₂	.0196 48	.0306		862	.100	118	.0406		860
P ₃	.0294 58	.0459		867	.150	121	.0609		865
P ₄	.0392 67	.0612		869	.200	128	.0812		866
P ₅	.0490 76	.0765		870			.1015		867
P ₆		.0918		870			.1218		867
P ₇		.1071		870			.1421		867
P ₈		.1224		870			.1624		867
P ₉		.1377		870			.1827		867
P ₁₀		.1530		870			.2030		867
Gauge No. 812		Depth 4561'		Clock 12 hour					
P ₀	.000 66	.000		96	.000	80	.000		146
P ₁	.0186 62	.0295		858	.0985	130	.0394		867
P ₂	.0372 69	.0590		882	.1970	139	.0788		881
P ₃	.0558 76	.0885		887	.2955	142	.1182		885
P ₄	.0744 85	.1180		890	.3940	146	.1576		887
P ₅	.0930 96	.1475		890			.1970		888
P ₆		.1770		890			.2364		888
P ₇		.2065		890			.2758		888
P ₈		.2360		890			.3152		888
P ₉		.2655		890			.3546		888
P ₁₀		.2950		890			.3940		888
Reading Interval 3		4.5		15		6		Minutes	
REMARKS:									

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

SPECIAL PRESSURE DATA

NAVAJO - B
APACHE COUNTY

DINEH-BI-KEYAH FIELD

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b₁	= Approximate Radius of Investigation (Net Pay Zone h)	Feet
D.R.	= Damage Ratio	
E_l	= 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.
P_o	= Potentiometric Surface (Fresh Water*)	Feet
Q	= Average Adjusted Production Rate During Test	bbls/day
Q₁	= Theoretical Production w/Damage Removed	bbls/day
Q_g	= Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r_w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t_o	= 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.

817

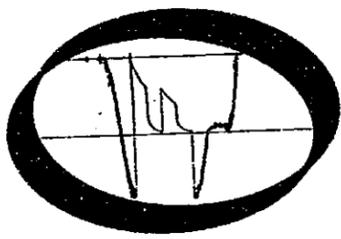
Each Horizontal Line Equal to 1000 p.s.i.

DINEH-BI-KEYAH FIELD

Corporation

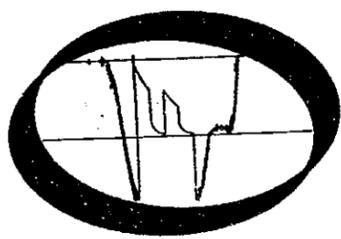
WELL NO. 2 NAVAJO-B
LINE 5-32N-30E Apache County

Formation Testing Service Report



HALLIBURTON COMPANY
DUNCAN, OKLAHOMA

Formation Testing Service Report



HALLIBURTON COMPANY
DUNCAN, OKLAHOMA

Gauge No. 786		Depth 4404'			Clock 12 hour		Ticket No. 438558			
First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure			
Time Diff. .000"	PSIG Temp. Corr.	Time Diff. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Diff. .000"	PSIG Temp. Corr.	Time Diff. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	
P ₀	.000	69	.000		150	.000	92	.000		146
P ₁	.018	73	.0206		854	.059	177	.0204		853
P ₂	.036	88	.0412		866	.118	299	.0408		861
P ₃	.054	107	.0618		869	.177	150	.0612		862
P ₄	.072	128	.0824		869	.236	138	.0816		864
P ₅	.090	150	.1030		870	.295	146	.1020		865
P ₆			.1236		872			.1224		866
P ₇			.1442		872			.1428		866
P ₈			.1648		872			.1632		866
P ₉			.1854		872			.1836		865
P ₁₀			.206		872			.204		865
Gauge No. 730		Depth 4479'			Clock 24 hour					
P ₀	.000	99	.000		179	.000	143	.000		182
P ₁	.0092	114	.0104		875	.0296	214	.0104		875
P ₂	.0184	123	.0208		893	.0592	330	.0208		885
P ₃	.0276	142	.0312		897	.0888	193	.0312		891
P ₄	.0368	150	.0416		899	.1184	174	.0416		892
P ₅	.046	179	.0520		900	.148	182	.0520		892
P ₆			.0624		900			.0624		893
P ₇			.0728		900			.0728		895
P ₈			.0832		901			.0832		895
P ₉			.0936		901			.0936		895
P ₁₀			.104		901			.104		895
Reading Interval 3					9					Minutes
REMARKS:										

SPECIAL PRESSURE DATA

8

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

DINEH-BI-KEYAH FIELD

NAVAJO-B
SENE 5-35N-30E Apache County

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.
P_o	= Potentiometric Surface (Fresh Water *)	Feet
Q	= Average Adjusted Production Rate During Test	bbls/day
Q₁	= Theoretical Production w/Damage Removed	bbls/day
Q_o	= Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r_w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t_o	= 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.

DINEH-BI-KEYAH FIELD

NAVAJO-B
SENE 5-35N-30E Apache County

35E

DINEH-BI-KEYAH FIELD

Operator: Mountain States Petroleum Corporation

Bond Company: Indian lands, evidence of bond posted with BIA

Amount: \$325,000*

Bond No.: Letter of Credit Bond No. 315 **Date approved:** 5/27/94

*** Pursuant to commission motion of October 31, 1997, no bond required with State of Arizona upon evidence of bond posted with the BIA.**

Permits covered by this bond posted with the BIA:

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



Jane Dee Hull
Governor

State of Arizona
Arizona Geological Survey

416 W. Congress, Suite 100
Tucson, Arizona 85701
(520) 770-3500



Larry D. Fellows
Director and State Geologist

December 1, 1997

Ms. Stacey Roberts
Kerr-McGee Corporation -
P.O. Box 25861
Oklahoma City, OK 73125

385

Re: Kerr-McGee Corporation
\$25,000 Oil Drilling Blanket Bond #2971100-2620
Safeco Insurance Company of America

Dear Ms. Roberts:

Mountain States Petroleum has provided evidence of its bonding with the BIA for the Dineh-bi-Keyah Field in Arizona, and our records show that Kerr-McGee Corporation has no outstanding drilling or plugging obligations in Arizona.

As a result, this letter constitutes written permission by the Oil and Gas Conservation Commission to terminate liability under the referenced bond. A copy of the bond is enclosed for your information.

Please advise if we may be of further service.

Sincerely,

Steven L. Rauzi
Oil & Gas Program Administrator

Enclosure

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

CANCELLED
DATE _____

ACTIVE

Permits covered by this bond:

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



Fife Symington
Governor

State of Arizona
Arizona Geological Survey

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



Larry D. Fellows
Director and State Geologist

June 8, 1994

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

Dear Ms. Burkhart:

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

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

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

Sincerely,

Steven L. Rauzi
Oil & Gas Program Administrator

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

CHANGES TO REPORTER INFORMATION

OLD INFORMATION:

MMS OPERATOR CODE: X0217

COMPANY NAME: KER R MCGEE CORPORATION

NEW INFORMATION:

MMS OPERATOR CODE: X0274

COMPANY NAME: MOUNTAIN STATES PETROLEUM CORP

CONTACT NAME: RUBY WICKERSHAM

STREET ADDRESS: 213 E. FOURTH

CITY: ROSWELL

STATE: NM ZIP CODE: 88201

PHONE: 505 623-7184
AREA CODE

COMPLETE IF APPLICABLE:

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

COMPANY SOLD TO: _____ EFFECTIVE DATE: _____

LEASES / AGREEMENTS AFFECTED: NAVAJO #B-2 (385) AZ OIL & GAS CONSERVATION COMMISSION

Dineh Bi Keyah Field - Apache County, Arizona JUN 3 1994

Lease #: 14-20-0603- 8889 API #: 020012001000S1

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

SIGNATURE: Judy Burkhardt
DATE: 5/13/94

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

385

P. O. BOX 1936

505 623-7184

MOUNTAIN STATES PETROLEUM CORPORATION

213 EAST FOURTH STREET
ROSWELL, NEW MEXICO
88202

June 6, 1994

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

**AZ OIL & GAS
CONSERVATION COMMISSION**

JUN 8 1994

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

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

Dear Sir;

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

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

Sincerely,

Judy Burkhart
Judy Burkhart,
Secretary

Enclosures

P. O. BOX 1936

505 623-7184

MOUNTAIN STATES PETROLEUM CORPORATION

213 EAST FOURTH STREET
ROSWELL, NEW MEXICO
88202

May 24, 1994

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

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

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

Dear Sir;

Please be advised that effective May 1, 1994, Mountain States Petroleum Corporation replaced Kerr-McGee as Operator of the captioned field and it's respective wells.

Listed on the attached sheet are the well names and API #'s of each well in this field, including shut-in, producing, and abandoned wells.

Please change your records to reflect that Mountain States Petroleum Corporation, Post Office Box 1936, Roswell, New Mexico, 88202-1936, (505) 623-7184, is now the operator of these properties and as such will be filing all required monthly production reports.

If you have any questions or are in need of anything further in this matter please contact the undersigned. Thank you.

Sincerely,

Judy Burkhart

Judy Burkhart,
Secretary

Attachment

ARIZONA
CONSERVATION COMMISSION

MAY 31 1994



Fife Symington
Governor

State of Arizona
Arizona Geological Survey

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

Larry D. Fellows
Director and State Geologist

June 2, 1992

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

Re: Mechanical Integrity tests at Dineh-Bi-Keyah Field, Arizona
Navajo "B" #2

Dear Mr. Bunas:

This letter represents the Commission's approval to do a fluid-level survey in the referenced well instead of the casing integrity test. The results of the fluid level and its relationship to the water table can be submitted to this office along with the results of the mechanical integrity tests on the remaining shut in and temporarily abandoned wells.

Sincerely,

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

Steven L. Rauzi
Oil and Gas Program Administrator



Fife Symington
Governor

State of Arizona
Arizona Geological Survey

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

Larry D. Fellows
Director and State Geologist

March 5, 1992

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

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

Dear Mr. Bunas:

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

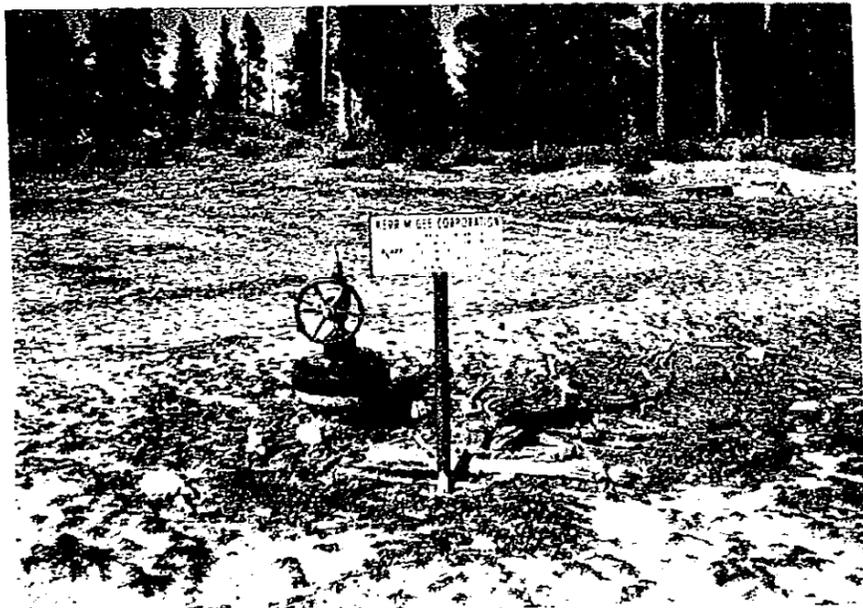
This office has no problem with your request to defer mechanical integrity testing on the referenced wells until late spring or early summer due to currently adverse weather conditions.

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

Sincerely,

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

Steven L. Rauzi
Oil and Gas Program Administrator



10/89

New McGee 2 Navajo B

SE NE 5, 35N-30E

Shut in Helium well

PN 385

Operator KERR MC GEE OIL ~~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>379</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
 10-19-73

385

May 20, 1968

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

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

Re: Kerr-McGee #2-B Navajo
SE NE 5-35N-30E, Apache County
Permit 385

Kerr-McGee #2-C Navajo
SE NW 33-36N-30E, Apache County
Permit 422

Gentlemen:

In reply to your letter of May 16, 1968, permission is hereby granted to defer capacity testing of captioned shut-in helium wells until such time as these wells are readied for commercial production or until further notice from this Commission.

Very truly yours,

John Bannister
Executive Secretary
MB

385

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

May 16, 1968

Arizona Oil and Gas Conservation Commission
1624 West Adams, Room 202
Phoenix, Arizona 85007

Attention Mr. John Bannister, Executive Secretary

In re Capacity testing of wells
Dineh-Bi-Keyah Field
Apache County, Arizona

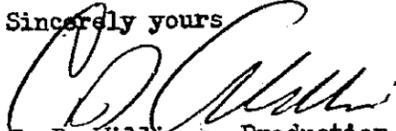
Dear Mr. Bannister

Commission Rule 401 provides for a test of open flow capacity of each producing gas well at least once each year. There are two shut-in helium bearing gas wells operated by Kerr-McGee in the area of the Dineh-Bi-Keyah Field, Apache County, Arizona. These are Navajo "B" Well #2 in Section 5, T35N, R30E, Permit No. 385; and Navajo "C" Well #2 in Sec. 33, T36N, R30E, Permit No. 422.

These wells have never produced since there is no pipeline connection available. Any testing of the wells would require venting to the atmosphere and waste of the helium bearing gas.

Approval is requested for deferment of testing of these two wells until further notice of the Commission.

Sincerely yours


C. D. Williams, Production Superintendent

lm

approved
5-17-68
JB





KERR-MCGEE CORPORATION

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

COPY

January 8, 1968

AIRMAIL

United States Geological Survey
Post Office Drawer 1857
Roswell, New Mexico 88201

Attention: Mr. John Anderson

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

Attention: Mr. John Bannister

Re: Commingled Oil Production
Navajo "B" Lease
Dineh-bi-Keyah Field
Apache County, Arizona

Gentlemen:

Kerr-McGee Corporation respectfully requests permission to meter and commingle the production from the Navajo "B" Lease, which is Navajo Tribal Lease 14-20-0603-8889, comprised of Section 5, T35N, R20E, Navajo Reservation, Apache County, Arizona, with the present production from the Navajo Lease, which is Navajo Tribal Lease 14-20-0603-8823. Enclosed please find a schematic diagram with the proposed separator-metering hookup. The meter to be used is a Floco Model F 500-3 positive displacement meter. A 500 barrel tank will be set near the separator and meter to test and calibrate the meter. After passing through the separator and Floco meter, the oil will go to the pipeline gathering system of Kerr-McGee Pipeline Corporation, which is gathering the production from the other wells in the Dineh-bi-Keyah Field. The working and royalty interest of the two leases are identical. Granting of this request would minimize the possibility of well shut-down due to the inaccessibility of the location during adverse weather conditions.

The proposed separator-metering facilities are identical to the proposed facility for the Navajo "F" Lease, which was recently approved by both the United States Geological Survey and the Arizona Oil & Gas Conservation Commission. Production has not yet commenced on the "F" Lease, but Kerr-McGee is presently in the process of testing and completing the Navajo "B" No. 1-X well, which is swabbing at a rate in excess of 30 barrels per hour.



United States Geological Survey
Arizona Oil & Gas Conservation Commission
Page Two
January 8, 1968

Your earliest possible approval of this proposal would be appreciated, since the "B" No. 1-X well will be ready to place on production the latter part of this week.

If additional information is needed, please advise.

Very truly yours,

HERB JUDGE CORPORATION



C. D. Williams
Production Superintendent

CDW:la

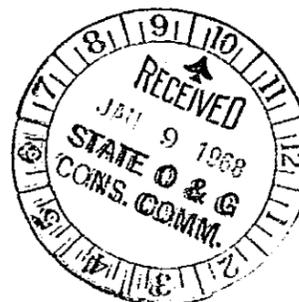
Enclosure

CC: Navajo Tribe - Minerals Department
OIL & GAS CONSERVATION COMMISSION
STATE OF ARIZONA

APPROVED: 1624 WEST ADAMS - SUITE 202
TELEPHONE: 277-3151
PHOENIX, ARIZONA, 85007

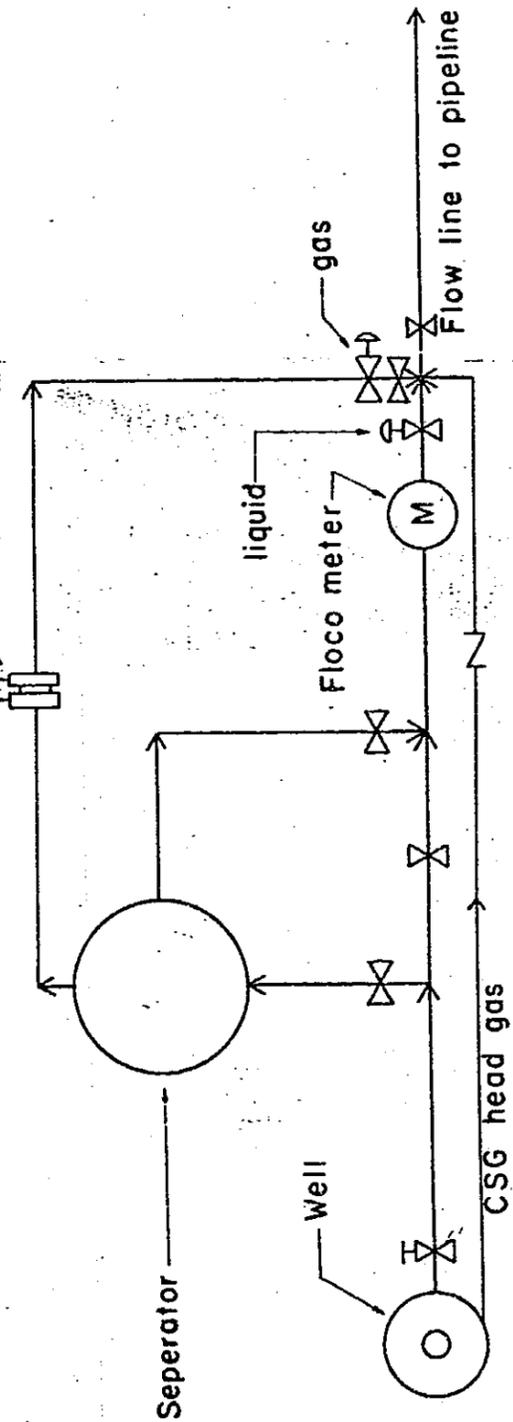
BY: John Gannister

DATE: 1-9-68



325

Orifice meter flanges with orifice plate & quick air type disconnects to connect portable bellows type orifice meter.



DINEH - bi - KEYAH FIELD

WELL PRODUCTION FACILITIES

SKEMATIC - by E.L.C. & W.E.R.

⊗ — High pressure shut down switch - max. 125 lbs.

⊗ — Back pressure valve

⊗ — Valve

⊗ — Check valve

All pipe valves & fittings - 125 PSI quality



385



KERR-MCGEE CORPORATION

KERR-MCGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

215 Petroleum Center Building
Farmington, New Mexico
June 3, 1967

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

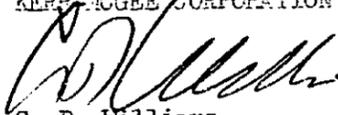
Attn: Mr. John Bannister ✓

RE: Well Completion Report
Navajo "B" Well No. 2
Dineh-bi-Keyah Field
Apache County, Arizona

Gentlemen:

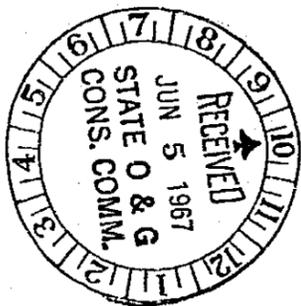
Attached please find a copy of Arizona Commission Form No. 4,
covering completion of the captioned well. Please keep this infor-
mation confidential.

Sincerely yours,
KERR-MCGEE CORPORATION


C. D. Williams
Prod. Supt.

CDW/hs

Attachments



385



KERR-McGEE CORPORATION

KERR-McGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

215 Petroleum Center Building

Farmington, New Mexico

May 16, 1967

COPY

United States Geological Survey
Oil and Gas Division
P. O. Box 959
Farmington, New Mexico

Attn: Mr. P. T. McGrath

RE: USGS Form No. 9-331
Navajo "B" No. 2
Dineh-bi-Keyah Field
Apache County, Arizona

Gentlemen:

Enclosed please find U.S.G.S. form 9-331 "Sundry Notices And Reports On Wells" for our Navajo "B" No. 2 well in the Dineh-bi-Keyah Field, Apache County, Arizona.

Please keep this information confidential.

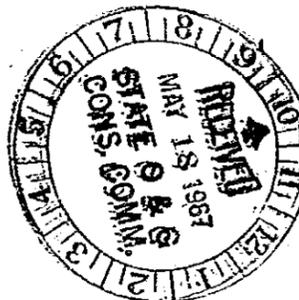
Sincerely yours,
KERR-McGEE CORPORATION

C. D. Williams
Production Supt.

CDW/hs

Enclosures

cc: State of Arizona-O&G Constr. Comm. (2)
Navajo Tribe Minerals Dept. - Farmington (1)
J.I. Fisher (1)
WRF
RF



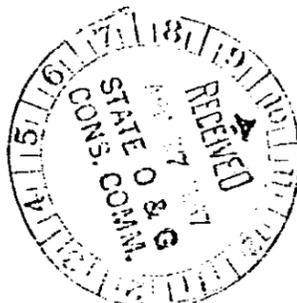
385

Copy of all
files

 **KERR-McGEE**

1001 GULF BLVD. SUITE 1000, DALLAS, TEXAS 75201

April 25, 1967



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

Gentlemen :

It is our request that all information on producing, Drilling, and Permitted wells operated by Kerr McGee Corporation in Dinah bi Meyah 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 B-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.

385-



KERR-MCGEE CORPORATION

POST OFFICE BOX "K" • SUNRAY, TEXAS 79086

April 10, 1967

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

Attention: Mr. John Bannister

Gentlemen:

Enclosed are two copies of U.S.G.S. Form 9-331, Sundry Notices and Reports on Wells, covering the spudding of the well, and the setting, cementing, and testing of the surface casing of the Kerr-McGee Corporation Navajo No. B-2, located 1,820' FNL and 640' FEL of Section 5, T35N, R30E, Apache County, Arizona.

Please keep all information confidential as long as the law allows.

Yours very truly,

KERR-MCGEE CORPORATION

C. J. Breeden

C. J. Breeden

CJB/s

ENCLOSURES:





February 28, 1967

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

Attention: Mr. John Bannister

Gentlemen:

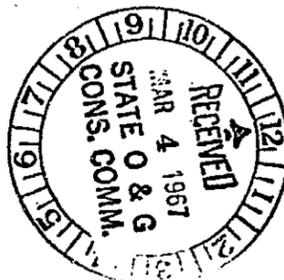
Enclosed herewith are four copies of Arizona Oil and Gas Conservation Commission, Form No. 3, Application for Permit to Drill, and two copies of USGS Form No. 9-331 C, Application for Permit to Drill on Kerr-McGee Corporation's Navajo No. 4 and Navajo No. B-2 Wells, located in Apache County, Arizona. Mr. Echohawk will file the Surveyor's Plat with your office. Please consider all information pertaining to both of these wells as confidential.

Also enclosed are two filing fees in the amount of \$ 25.00 each.

Yours very truly,

Otto C. Barton
Div. Supt. Oil & Gas Prod.

OCB:wm



385