

Release Date 12-31-67
2-1-67

CONFIDENTIAL



P-W

KERR-MC GEE #1 NAVAJO-B 281
SE NW 5-35N-30E Apache County

COUNTY Apache AREA 16 mi SW Red Rock LEASE NO. Nav 14-10-0603-8889

WELL NAME Kerr-McGee Corp. #1 Navajo-B

LOCATION SE NW SEC 5 TWP 35N RANGE 30E FOOTAGE 1980 FNL 2160 FWL
 ELEV 8491' GR 8503' KB SPUD DATE 3-7-67 STATUS PIA 10/7/93 TOTAL 4130' PBTB
 COMP. DATE _____ DEPTH 3752' PBTB

CONTRACTOR Barker Well Service

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
<u>10 3/4</u>	<u>321</u>	<u>KB 310</u>	<u>SKS NA</u>	<u>X</u>
<u>7</u>	<u>3850</u>	<u>150</u>	<u>SKS</u>	_____
DRILLED BY CABLE TOOL _____				PRODUCTIVE RESERVOIR _____
INITIAL PRODUCTION _____				

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
<u>Chuska</u>	<u>Surface</u>		<u>X</u>	
<u>Chinle</u>	<u>760'</u>			
<u>Coconino</u>	<u>1479'</u>			
<u>Supai</u>	<u>2195'</u>			
<u>Hermosa Ls.</u>	<u>3284'</u>			
<u>Hermosa Intr.</u>	<u>3663'</u>			
<u>Hermosa Ls.</u>	<u>3751'</u>			
<u>Mississippian</u>	<u>4027'</u>			
<u>Sample Set in Tucson</u>				

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
<u>Borehole Comp. Sonic/GR IES</u>	<u>3710-46 3664-90</u>		<u>Am Strat</u>
			<u>Farm Cut</u>
			<u>SAMPLE NO. 1431*</u>
			<u>CORE ANALYSIS X</u>
			<u>DSTs</u>
			<u>*2501</u>

REMARKS 6-8-67 Authorized Release of Certain Info. APP. TO PLUG X
7-10-67 Authorized Temp. Abandon PLUGGING REP. _____
12-16-67 Plugged back above Hermosa to 3535' COMP. REPORT X

WATER WELL ACCEPTED BY _____
 BOND CO. Firemen's Ins. Co. BOND NO. 188 98 10-528
 DATE _____ ORGANIZATION REPORT 7-14-60
 BOND AMT. \$ 25,000 CANCELLED _____ WELL BOOK X PLAT BOOK X
 FILING RECEIPT 9475 LOC. PLAT X DEDICATION E/2 NW/4 Order 21
 API NO. 02-001-20006 DATE ISSUED 2-27-67 See Sundry Notice 12-2-67
 PERMIT NUMBER 381

CONFIDENTIAL
 Release Date 12-13-67

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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
file 381

8. Well Name and No.
Navajo "B" #1

9. API Well No.
02-001-20006

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

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

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.
U.S. Onshore Region, P.O. Box 25861, Oklahoma City, OK 73125
405/270-6023

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1980' FNL & 2160' FWL
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 checked="" type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

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

SEE ATTACHED

CONSERVATION DIVISION
NOV 3 1993

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

Signed D. Dunbar Title Regulatory Specialist Date 11-1-93

(This space for Federal or State office use)

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

NAVAJO "B" #1
DINEH-BI-KEYAH FIELD
APACHE COUNTY, AZ

Permit 381

- 10-5-93 Tag TOC @ 3535' w/2-3/8" tbg. Circ hole w/145 bbls 9.5 ppg mud. Perf 2 squeeze holes @ 2030'. Set 7" cmt retainer @ 1948'. Test tbg to 1000 psi- ok. Est. circ w/10 bbls FW. Mix & pump 180 sks Class H cmt (16.4 ppg). Unsting from retainer & pump 112 sks Class H on top of retainer. Tag TOC in 7" csg @ 1390'. Perf 2 squeeze holes @ 820'.
- 10-6-93 Set 7" cmt retainer @ 770'. Est. inj. rate @ .5 BPM & 800 psi. Mix & pump 45 sks Class H cmt (16.4 ppg). Unsting from retainer & spot 45 sks Class H on top of retainer. Calc. TOC in 7" csg @ 570'. Set 7" cmt retainer @ 370'. Est. inj. rate @ .5 BPM & 450 psi thru hole in casing @ 418'. Mix & pump 145 sks Class H w/full returns. Did not circ cmt to surface. Spot 54 sks Class H on top of retainer. Calc TOC in 7" csg @ 120'. TIH w/1" & tag TOC in 7" x 10-3/4" annulus @ 80'. Pump 58 sks Class H down 7" x 10-3/4" annulus & circ cmt to surface. TIH w/1" & tag TOC @ 200' in 7" csg. Pump 21 sks Class H & bring cmt to surface.
- 10-7-93 Weld 1/2" plate on 10-3/4" csg stub @ 3' below GL. Erect 8' P&A marker (5' above GL).

NOTE: Plugging was approved & witnessed by Steven L. Rauzi with the Arizona Geological Survey. Amended plugging procedure was verbally approved by Steve Mason w/BLM to Kim Biggs on 9-30-93.

CONSERVATION COMMISSION

NOV 3 1993

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

6. If Indian, Allottee or Tribe Name

Navajo

7. If Unit or CA, Agreement Designation

file 381

8. Well Name and No.

Navajo "B" #1

9. API Well No.

02-001-20006

10. Field and Pool, or Exploratory Area

Dineh-Bi-Keyah

11. County or Parish, State

Apache Co., AZ

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Kerr-McGee Corporation

3. Address and Telephone No.

U.S. Onshore Region, P.O. Box 25861, Oklahoma City, OK 73125
405/270-6023

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

1980' FNL & 2160' FWL
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 checked="" type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" 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 type="checkbox"/> Other _____	<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

APPROVED
CONSERVATION COMMISSION
NOV 3 1993

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

Signed

(This space for Federal or State office use)

Title

Regulatory Specialist

Date

11-1-93

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" #1
DINEH-BI-KEYAH FIELD
APACHE COUNTY, AZ

Permit 391

- 10-5-93 Tag TOC @ 3535' w/2-3/8" tbg. Circ hole w/145 bbls 9.5 ppg mud. Perf 2 squeeze holes @ 2030'. Set 7" cmt retainer @ 1948'. Test tbg to 1000 psi- ok. Est. circ w/10 bbls FW. Mix & pump 180 sks Class H cmt (16.4 ppg). Unsting from retainer & pump 112 sks Class H on top of retainer. Tag TOC in 7" csg @ 1390'. Perf 2 squeeze holes @ 820'.
- 10-6-93 Set 7" cmt retainer @ 770'. Est. inj. rate @ .5 BPM & 800 psi. Mix & pump 45 sks Class H cmt (16.4 ppg). Unsting from retainer & spot 45 sks Class H on top of retainer. Calc. TOC in 7" csg @ 570'. Set 7" cmt retainer @ 370'. Est. inj. rate @ .5 BPM & 450 psi thru hole in casing @ 418'. Mix & pump 145 sks Class H w/full returns. Did not circ cmt to surface. Spot 54 sks Class H on top of retainer. Calc TOC in 7" csg @ 120'. TIH w/1" & tag TOC in 7" x 10-3/4" annulus @ 80'. Pump 58 sks Class H down 7" x 10-3/4" annulus & circ cmt to surface. TIH w/1" & tag TOC @ 200' in 7" csg. Pump 21 sks Class H & bring cmt to surface.
- 10-7-93 Weld 1/2" plate on 10-3/4" csg stub @ 3' below GL. Erect 8' P&A marker (5' above GL).

NOTE: Plugging was approved & witnessed by Steven L. Rauzi with the Arizona Geological Survey. Amended plugging procedure was verbally approved by Steve Mason w/BLM to Kim Biggs on 9-30-93.

CONSERVATION COMMISSION
NOV 3 1993

NAVAJO "B" #1
Dineh-Bi-Keyah Field
Section 5-T35N-R30E
Apache county, Arizona

file 381

REVISED PROCEDURE
(Procedure revised due to hole in 7" casing at 418')

1. Notify Mr. Steve Rauzi of the Arizona Oil & Gas conservation Commission @ 602/882-4795 several days prior to plugging. Also notify the BLM @ 505/599-8900.
2. MIRU workover rig. Haul in $\pm 3600'$ of 2 3/8" tubing from the Farmington yard to be used as workstring.
3. NU BOP. TIH with 2 3/8" tubing to 3535' and tag TOC, reverse circulate wellbore full of 9.5 ppg mud (± 145 bbls). POOH with tubing, leaving 2100' in derrick.
4. RU electric line and shoot (2) holes in 7" casing at 2000' ($\pm 50'$ below base of the Coconino Sandstone).
5. MU 7" cement retainer on tubing and TIH. Set retainer at 1950'. Test tubing to 1000 psi. Establish circulation up 7" x 10 3/4" annulus (notify Amarillo office if circulation cannot be established). With surface casing valve open, mix and pump 180 sxs "H" cement mixed at 16.4 ppg (± 34 bbls). Sting out of retainer and pump 112 sxs cement on top of retainer (± 22 bbls). TOC in 7" csg est at 1420'.
6. RIH with electric line perf gun and tag TOC, PU and shoot 2 holes in 7" csg at 810' ($\pm 50'$ below base of the Wingate Sand)
7. MU 7" cmt retainer and TIH with tubing, set retainer at 760'. Establish circulation up 7" x 10 3/4". Open surface casing valve and mix and pump 45 sx "H" cement (8.5 bbls). Sting out of retainer and pump 45 sxs of cement on top of retainer. Est TOC in and out of 7" casing estimated at 610'. POOH and LD all but 350' of tubing.
8. MU and TIH with 7' cmt retainer on tubing and set at 350'. Unsting from retainer and load 7" casing with fluid and close csg valve. Sting back into retainer and pump ± 120 sxs of cement until returns are noted up 7" x 10 3/4" annulus. Unsting from retainer and spot 75 sxs of cement to surface. POOH and LD tubing.
9. Cut off 7" and 10 3/4" casing 3' below GL and weld steel plate over 10 3/4" casing. Set marker as per commission rules and restore location.

cc: HHR
RAS

*1005
1-11/93*

09/30/93

15:13

3590356

001



KERR-MCGEE CORPORATION

4221 WEST TWENTY-FIRST AVENUE
P.O. BOX 250 AMARILLO, TEXAS 79199

EXPLORATION AND PRODUCTION DIVISION

PHONE
(806) 359-0351 office
(806) 359-0358 fax

FACSIMILE COVER LETTER

DATE: 9/30/93 TIME: 3:10 PM
 ATTENTION: Steve Rauzi cxt. _____
 SENDER: Kim D. Biggs (806) 359-0351

FAX #: (806) 359-0356

TOTAL # OF PAGES TRANSMITTED (including cover sheet) 2

PLEASE CALL SENDER IF TRANSMISSION IS IMPAIRED

COMMENTS: Attached is our "Revised Procedure" for the
PiA of the Navajo B#1 well. Please let me know
if this meets your approval.

Kim D. Biggs

09/30/93

15:14

3590356

002

**NAVAJO "B" #1
Dineh-Bi-Keyah Field
Section 5-T35N-R30E
Apache county, Arizona**

REVISED PROCEDURE

(Procedure revised due to hole in 7" casing at 418')

1. Notify Mr. Steve Rauzi of the Arizona Oil & Gas conservation Commission @ 602/882-4795 several days prior to plugging. Also notify the BLM @ 505/327-5344.
2. MIRU workover rig. Haul in $\pm 3600'$ of 2 3/8" tubing from the Farmington yard to be used as workstring.
3. NU BOP. TIH with 2 3/8" tubing to 3535' and tag TOC, reverse circulate wellbore full of 9.5 ppg mud (± 145 bbls). POOH with tubing, leaving 2100' in derrick.
4. RU electric line and shoot (2) holes in 7" casing at 2000' ($\pm 50'$ below base of the Coconino Sandstone).
5. MU 7" cement retainer on tubing and TIH. Set retainer at 1950'. Test tubing to 1000 psi. Establish circulation up 7" x 10 3/4" annulus (notify Amarillo office if circulation cannot be established). With surface casing valve open, mix and pump 180 sxs "H" cement mixed at 16.4 ppg (± 34 bbls). Sting out of retainer and pump 112 sxs cement on top of retainer (± 22 bbls). TOC in 7" csg est at 1420'.
6. RIH with electric line perf gun and tag TOC, PU and shoot 2 holes in 7" csg at 810' ($\pm 50'$ below base of the Wingate Sand)
7. MU 7" cmt retainer and TIH with tubing, set retainer at 760'. Establish circulation up 7" x 10 3/4". Open surface casing valve and mix and pump 45 sx "H" cement (8.5 bbls). Sting out of retainer and pump 45 sxs of cement on top of retainer. Est TOC in and out of 7" casing estimated at 610'. POOH and LD all but 350' of tubing.
8. MU and TIH with 7' cmt retainer on tubing and set at 350'. Unsting from retainer and load 7" casing with fluid and close csg valve. Sting back into retainer and pump ± 120 sxs of cement until returns are noted up 7" x 10 3/4" annulus. Unsting from retainer and spot 75 sxs of cement to surface. POOH and LD tubing.
9. Cut off 7" and 10 3/4" casing 3' below GL and weld steel plate over 10 3/4" casing. Set marker as per commission rules and restore location.

WRS
9/30/93

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

14-20-0603-8889

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Navajo

7. If Unit or CA, Agreement Designation

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Kerr-McGee Corporation

3. Address and Telephone No.

405/270-6023

U.S. Onshore Region, P. O. Box 25861, Oklahoma City, OK 73125

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

1980' FNL & 2160' FWL
Sec. 5, T35N, R30E

8. Well Name and No.

Navajo "B" #1 *Permit 381*

9. API Well No.

02-001-20006

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
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	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

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

See attached procedure & current wellbore schematic.

The work will be deferred until late spring or early summer due to the current adverse weather conditions.

CONSERVED
NOV 20 1992

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

Signed

D. Bumar

Title Regulatory Specialist

Date

11-19-92

(This space for Federal or State Office use)

Approved by

SL Ramey

Title AZ Oil & Gas Prog. Administrator

Date

11-30-92

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" #1
Dineh-Bi-Keyah Field
Section 5-T35N-R30E
Apache County, Arizona

P&A PROCEDURE

1. Notify Mr. Steve Rauzi of the Arizona Oil & Gas Conservation Commission @ 602/882-4795 several days prior to plugging. *Also BLM @ 505-327-5344*
2. MI RU workover rig. Truck in 117 joints ($\pm 3500'$) of 2 $\frac{3}{8}$ " tubing from Farmington yard to be used as workstring.
3. ND tree and NU BOP.
4. TIH with 2 $\frac{3}{8}$ " tubing and reverse circulate wellbore full of 9.5 ppg mud (± 145 bbls).
5. POOH with 2 $\frac{3}{8}$ " tubing and leave 70 joints ($\pm 2100'$) in derrick. LD remaining tubing.
6. RU electric line and shoot two (2) holes in 7" casing at 2,000' ($\pm 50'$ below base of the Coconino Sandstone). Establish circulation in 7" - 10 $\frac{3}{4}$ " annulus.
7. Set cement retainer at 1,950'. TIH with tubing and sting into retainer. Pressure test tubing to 700 psi. With surface casing valve open, mix and pump 180 sxs "H" mixed at 16.4 ppg (± 34 bbls). Sting out of retainer and pump 112 sxs cement on top of retainer (± 22 bbls). POOH with tubing. Plug is sufficient to extend $\pm 50'$ above the top of Coconino Sandstone.
8. RIH and shoot two (2) holes in 7" casing at 810' ($\pm 50'$ below the base of the Chuska Sandstone). Establish circulation in 7" - 10 $\frac{3}{4}$ " annulus.
9. Set cement retainer at 760'. TIH with tubing and sting into retainer. With surface casing valve open, mix and pump 250 sxs "H" mixed at 16.4 ppg (± 47 bbls), cement should circulate to surface. Sting out of retainer and pump cement plug from top of retainer to surface with 170 sxs "H" (± 32 bbls). POOH and LD tubing.
10. Cut off 7" - 10 $\frac{3}{4}$ " casing 3' below ground level and weld steel plate over 10 $\frac{3}{4}$ " casing.
11. Set marker as per commission rules and restore location.

OK JCR
10/30/92

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION: **T.A.**

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

DESCRIPTION OF WELL AND LEASE

Operator Kerr-McGee Corporation		Address P. O. Box 250, Amarillo, Texas 79105	
Federal, State or Indian Lease Number or name of lessor if fee lease 14-20-0603-8889 Navajo "B"		Well Number 1	Field & Reservoir Dineh-bi-Keyah
Location 1980' FNL & 2160' FWL		County Apache	
Sec. TWP-Range or Block & Survey Sec 5, T35N, R30E			
Date spudded 3/7/67	Date total depth reached 5/9/67	Date completed, ready to produce TA	Elevation (DF, RT or Gr.) feet 8491
Elevation of casing hd. flange 8491 feet			
Total depth 4130	P.B.T.D. 3535	Single, dual or triple completion? T.A.	If this is a dual or triple completion, furnish separate report for each completion.
Producing interval (s) for this completion T.A.		Rotary tools used (Interval) All	Cable tools used (Interval) None
Was this well directionally drilled? No	Was directional survey made? No	Was copy of directional survey filed? --	Date filed --
Type of electrical or other logs run (check logs filed with the commission) Sonic - G. R., Induction-Electric			Date filed 10/6/67

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)						
Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Surface	15"	10 3/4"	32.75	321	310	None
Production	8 3/4"	7"	20	3850	150	None

TUBING RECORD LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
None in.	ft.	ft.	None in.	ft.	ft.	ft.	
None			None				

PERFORATION RECORD ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Am't. & kind of material used	Depth Interval
5	0.46" Jet	3710-46	2400 gal Acid, 30,000 oil	3710-46
5	0.46" Jet	3664-90	1100 gal Acid, 30,000 oil	3664-90

INITIAL PRODUCTION **15,000# sand, 340 qts Nitro 3664-**

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

Date of test	Hrs. tested	Choke size	Oil prod. during test	Gas prod. during test	Water prod. during test	Oil gravity
			bbls.	MCF	bbls.	* API (Corr)
Tubing pressure	Casing pressure	Cal'ed rate of Production per 24 hrs.	Oil	Gas	Water	Gas-oil ratio
			bbls.	MCF	bbls.	

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

District Manager

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

Date 7/31/71 Signature

Permit No. 381

RECEIVED
AUG 2 1971
O & G CONS. COMM.

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Well Completion or Recompletion Report and Well Log
Form No. 4 File One Copy **2**

(Complete Reverse Side)

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
Chuska	Surface	760	Sandstone
Chinle	760	1479	Shale
Coconino	1479	2195	Sandstone
Supai	2195	3284	Shale & Sandstone
Hermosa Ls.	3284	3663	Limestone & Shale
Hermosa			
Intrusive	3663	3751	Intrusive Sill
Hermosa Ls.	3751	4027	Limestone & Shale
Mississippian	4027	T.D.	Limestone
Core #1 Hermosa	3678	3738	
Core #2 Hermosa	3738	3762	

* 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.

Form No. 4

**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 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: S. Steven L. Rainz

Permit No. _____

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

Form 3160-5
(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) 1980' FNL & 2160' FWL Sec. 5, T35N, R30E	8. Well Name and No. Navajo "B" #1
	9. API Well No. 02-001-20006
	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>Renew TA Status</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 temporarily abandoned status for the subject well expired December 31, 1991. Kerr-McGee would like to extend this for one year to December 31, 1992. Current plans are to use the well in the proposed Dineh-Bi-Keyah Waterflood Project.

The casing integrity of the well will be tested prior to July 1, 1992. It is being deferred due to the current adverse weather conditions.

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

Signed D. 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 381

Form 3150-5
(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

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

381

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. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Dry hole		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
2. NAME OF OPERATOR Kerr-McGee Corporation		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR U.S. Onshore, Box 25861, Oklahoma City, OK 73125		8. FARM OR LEASE NAME Navajo "B"
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1980' FNL & 2160' FWL		9. WELL NO. 1
14. PERMIT NO.	15. ELEVATIONS (Show whether DP, RT, GR, etc.) 8491' GR	10. FIELD AND POOL, OR WILDCAT Dineh-Bi-Keyah
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 5-35N-30E
		12. COUNTY OR PARISH 13. STATE Apache AZ

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

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

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

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

The above well is temporarily abandoned. Kerr-McGee had plans to permanently P & A this well but upon further evaluation it has been determined that this well may be utilized in a possible future waterflood project. We request approval to leave this well in its temporarily abandoned status.

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

SIGNED P. Burns G. Runas TITLE Analyst II DATE 10-14-86

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

APPLICATION TO ABANDON AND PLUG

RECEIVED

JAN 27 1984

O & G CONS. COMM.

FIELD Dineh-Bi-Keyah
 OPERATOR Kerr-McGee Corporation ADDRESS E. O. Box 250, Amarillo, TX 79189
 Federal, State, or Indian Lease Number or Lessor's Name if Fee Lease 14-20-0603-8889 WELL NO. 1
 SURVEY G & SRM SECTION 5-T35N-R30E COUNTY Apache
 LOCATION 1980' FNL & 2160' FWL

TYPE OF WELL Dry Hole (Oil, Gas or Dry Hole) TOTAL DEPTH 4130'
 ALLOWABLE (If Assigned) _____
 LAST PRODUCTION TEST OIL _____ (Bbls.) WATER _____ (Bbls.)
 GAS _____ (MCF) DATE OF TEST _____
 PRODUCING HORIZON _____ PRODUCING FROM _____ TO _____

1. COMPLETE CASING RECORD
 Surface: 10 3/4" 32.75# H-40 ST&C csg. set @ 321' w/310 sx common cmt.
 Production: 7" 10# J-55 ST&C csg. set @ 3850' w/150 sx Pozmix cmt.

2. FULL DETAILS OF PROPOSED PLAN OF WORK
 1. TIH w/2 7/8" open ended tbg. & tag plug @ 3535'
 2. Load hole w/9.2# 32 viscosity mud
 3. PU 2 7/8" tbg. to 334' and pump a 25 sk cmt plug from 3234' to 3334'
 4. TIH w/4" csg. gun on wireline and perforate 4 holes @ 2250'
 5. Attempt to establish circulation. If circulation cannot be established, follow alternate procedure. 5 a. TIH w/open ended tbg. to 2300' *For completion of procedure see reverse side

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

DATE COMMENCING OPERATIONS March 7, 1984 (estimated)
 NAME OF PERSON DOING WORK Halliburton Services ADDRESS P. O. Drawer 960, Farmington, NM 87401

CORRESPONDENCE SHOULD BE SENT TO Aaron Reyna
 Name
Engineering Assistant
 Title
P. O. Box 250, Amarillo, Texas 79189
 Address
January 20, 1984
 Date

Date Approved 1-31-84
 STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 By: R. G. Nana

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

Permit No. 381

- 5 b. Pump a 187 sk plug and flush w/8 bbls mud. Top of plug @ 1429'. WOC
Tag plug. TOH & lay down tubing.
6. TIH w/7" cmt. retainer on tbg. Set retainer @ 1429'
 7. PU on cmt. retainer to shut off valve. Test to 500 psi to check for tbg. leaks & set back down.
 8. Pump 350 sx. plug. Sting out of retainer leaving 2 sx cmt. on top of retainer
Top of plug @ 1419'
 9. TOH w/tbg. TIH w/4" csg. gun & perforate 4 holes @ 375'. TOOH w/csg. gun.
 10. Establish circulation down casing w/9.2# mud and circulate. Pump a 75 sx. plug and flush w/11 bbls mud to place top of cmt. @ 271' inside & outside of csg. WOC.
 11. TIH w/2 7/8" tbg. & tag plus. TOH w/tbg.
 12. TIH w/1 jt. tbg. and spot a 14 sk. plug from 25' to surface.
 13. Cut csg. 5' below ground level. Weld cap on casing and place abandonment sign.
 14. Clean, level and reseed location.

*Note: All cement used will be Class "B" and fluid placed between plugs will be 9.2# 32 viscosity mud.

2-USGS-Roswell
 2-Arizona
 1-Tribe
 1-JIF
 1-WRF
 1-RF

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

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

ALLOTTEE Navajo
 TRIBE 14-20-0603-8889
 LEASE NO. NAVAJO "B" LEASE

LESSEE'S MONTHLY REPORT OF OPERATIONS

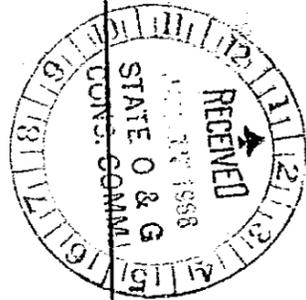
State ARIZONA County APACHE Field DINEH-BI-KEYAH

The following is a correct report of operations and production (including drilling and producing wells) for the month of DECEMBER, 19 67

Agent's address 215 Petroleum Center Bldg. Company Kerr-McGee Corporation
Farrington, New Mexico Signed [Signature]

Phone 327-9637 Agent's title Production Supt.

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (in thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (if none, so state)	REMARKS (if drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE1/4 5	35N	30E	1	None						Move in and set bridge plug 12-13-67. Set approx. 67' of cement on top of bridge plug. FBTD 3535'. Installed blank flange on broken head. Operation complete 12-16-67.
NW1/4 5	35N	30E	1-X	None						Spud 12-8-67. Set 9-5/8" csg at 233' with 220 sms. Drig 8-3/4" hole to 3165', and set 7" csg at T.D. with 200 sms 50-50 Pennix with 4% gal.
SE1/4 5	35N	30E	.2	None						Shut-in Gas Well.



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.

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.
14-20-0603-8889

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NAVAJO

7. UNIT AGREEMENT NAME
NAVAJO

8. FARM OR LEASE NAME
NAVAJO "B"

9. WELL NO.
WELL NO. 1

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

11. SEC. T. E. 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
1980' ENL & 2160' FWL (SE NW) Sec. 5, T35N, R30E

14. PERMIT NO.
State No. 381

15. ELEVATIONS (Show whether DF, ST, GR, etc.)
8491' GR

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

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

(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.)

**12-13-67 - Move in derrick and McCullough and set wireline Baker 2" Model P-1
Bridge Plug at 3602'.**

12-14-67 & 12-15-67 - Shut down due to snow storm.

**12-16-67 - Made 3 runs with dump bailer and set approximately 67' of cement
plug. Installed blank flange on bradenhead and released rig. BHTD: 3535'.**



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

SIGNED [Signature] TITLE Production Supt. DATE 12-20-67

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

- 2-USGS
- 2-Aris.*
- 1-Tribe
- 1-JIF
- 1-WRF
- RF

#381

*See Instructions on Reverse Side

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE
(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.)

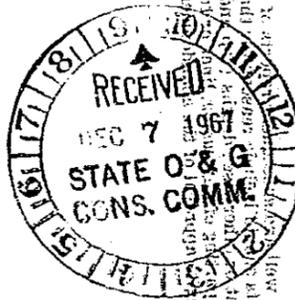
5. LEASE DESIGNATION AND SERIAL NO. 14-20-0603-8889	
6. INDIAN, ALLOTTEE OR TRIBE NAME NAVAJO	
7. UNIT AGREEMENT NAME	
8. PASH OR LEASE NAME NAVAJO "B"	
9. WELL NO. NO. 1	
10. FIELD AND POOL, OR WILDCAT Dinah-bi-Keyah	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 5, T35N, R30E	
12. COUNTY OR PARISH	13. STATE
Apache	Arizona
14. PERMIT NO. State No. 381	15. ELEVATIONS (Show whether DP, RT, GR, etc.) 8491' GR

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

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

Well is to be plugged back above the Lower Hermosa and temporarily abandoned. It is requested the 160 acres dedicated to this well for the lower Hermosa be terminated so that the 160 acres (NW/4 Sec. 5) be re-assigned to Navajo "B" Well No. 1-X. Propose to dedicate 80 acres (E/2 NW/4, Sec. 5) to this well for a formation other than the Lower Hermosa.



cc: 2-Arizona ✓
1-J.I.F.
1-WRF
1-RF

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

SIGNED [Signature] TITLE Production Supt. DATE 12-6-67

(This space for Federal or State office use)

APPROVED BY [Signature] TITLE Exec Sec DATE 12-7-67

CONDITIONS OF APPROVAL, IF ANY:

OIL & GAS CONSERVATION COMMISSION
STATE OF ARIZONA
1824 WEST ADAMS - SUITE 202
TELEPHONE: 271-5181
PHOENIX, ARIZONA, 85007

*See Instructions on Reverse Side

381

2-USGS-Roswell
 2-Arizona
 1-Tribe
 1-JIF
 Lse. File-1
 1-RF

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

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

ALLOTTEE NAVAJO
 TRIBE NAVAJO
 LEASE No. 14-20-0603-8889

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 JULY & August, 1967 thru Nov '67
 Agent's address 215 Petroleum Center Bldg. Company Kerr-McGee Corporation
Farmington, New Mexico Signed Ray Holt
 Phone 327-9637 Agent's title Prod. Engineer

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)
SENE 5	35N	30E	1	None						Suspended operations 6-20-67.
SENE 5	35N	30E	2	None						Shut-in gas well. No activity on this lease during July 1967.



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.

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Form approved
Budget Bureau No. 42-21424

6. LEASE DESIGNATION AND SERIAL NO.
14-20-0603-8899

7. IF INDIAN, ALLOTTEE OR TRIBE NAME
NAVAJO

8. UNIT AGREEMENT NAME

9. FARM OR LEASE NAME
NAVAJO

10. WELL NO.
NO. 1811

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

12. SEC. T. R. N. OR BLK. AND
SUBSET OR AREA
Sec. 5, T35N, R30E.

13. COUNTY OR PARISH 14. STATE
Apache 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
1980' FNL & 2160' FWL (SE NW)
Sec. 5, T35N, R30E Apache Co., Arizona

14. PERMIT NO.
State No. 381

15. ELEVATIONS (Show whether SW, SE, etc.)
8491' 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 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"/>	REPAIRING WELL	<input type="checkbox"/>
FULL OR ALTER CASING	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	ABANDONMENT	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		
CHANGE PLANS	<input checked="" type="checkbox"/>		

(Note: Report results of multiple completion of Well Completion or Recombination 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.)*

* Suspend Operations & Temporarily Abandon.

This well was shot with 340 quarts of nitro glycerin on 5-28-67. The hole was cleaned out to 3750' Attempts to establish production by swabbing & bailing were unsuccessful. The cable tool unit was moved off the well on 6-20-67. It is proposed to suspend operation & temporarily abandon the well while evaluating the performance of offsetting wells and reviewing possible additional stimulation treatment for the Hermosa zone.

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

(This space for Federal or State/Local use)
APPROVED BY *[Signature]* TITLE
CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

FEB 22 1971

O & G CONS. COMM.

*See Instructions on Reverse Side

381

Handwritten notes:
OCT 17-91
WRF
2-20-67

Vertical stamp:
RECEIVED
FEB 22 1971
O & G CONS. COMM.

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 Merr-McLee 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; data and result of test for gasoline content of gas)
SENE5	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.

38

RECEIVED
JUL 18 1967
STATE OF ARIZONA
CONS. COMM.

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.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ALLOTTEE _____
TRIM NAVAJO
LEASE NO. 14-20-0603-8899
NAVAJO "B" LEASE

LESSEE'S MONTHLY REPORT OF OPERATIONS

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 MAY, 1967,
Agent's address 215 PETROLEUM CENTER BLDG. Company KERR-MCQUEE CORP.
FARMINGTON, NEW MEXICO 87401 Signed _____
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)
SE NW 5	35N	30E	1	NONE						Squeezed perf from 3710'-3746'. Drilled below 7" casing to 4130'. No show. Plug back to 3700'. Perf, treat and test interval 364'-90'. Clean out hole to 3780'. Shot well with 340 quarts of nitro-glycerin from 3752'-3664'. 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'-4444' and 4394'-4428' and, 3) 3924'-3935' and 3904'-3907'. Completion as Shut-in gas well from 3924'-3935' and 3904'-3907' PBD 4311'.

PLEASE KEEP THIS INFORMATION CONFIDENTIAL.



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.

9 381

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

NAVAJO

8. WELL NO.

NO. "B" 1

10. FIELD AND POOL, OR WILDCAT

Dineh-bi-Keyah

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

Sec. 5, T35N, R30E.

12. COUNTY OR PARISH 13. STATE

Apache 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
1980' FNL & 2160' FNL (SE NW)
Sec. 5, T35N, R30E Apache Co., Arizona

14. PERMIT NO.
State No. 381

15. ELEVATIONS (Show whether DF, RT, CR, etc.)
8491' GR

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

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

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

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

* Suspend Operations & Temporarily Abandon.

This well was shot with 340 quarts of nitro glycerin on 5-28-67. The hole was cleaned out to 3750'. Attempts to establish production by swabbing & bailing were unsuccessful. The cable tool unit was moved off the well on 6-20-67. It is proposed to suspend operation & temporarily abandon the well while evaluating the performance of offsetting wells and reviewing possible additional stimulation treatment for the Hermosa zone.

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

SIGNED

TITLE Product Manager

DATE 7-7-67

(This space for Federal or State office use)

APPROVED BY

TITLE Executive

DATE 7-10-67

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

8 381



KERR-McGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

215 Petroleum Center Building
Farmington, New Mexico
June 6, 1967

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

Attn: Mr. John Bannister, Exec. Secretary

RE: Dineh-bi-Koyah 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-Koyah 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



381



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

307

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.
24-20-0603-6899
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NAVAJO
7. UNIT AGREEMENT NAME
NAVAJO "B"
8. FARM OR LEASE NAME
NO. 1
9. WELL NO.
Dineh-bi-Kayah
10. FIRED AND POOL OR WILDCAT
Sec. 5-T35N-R30E
11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
Apache **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 NW SEC. 5-T35N-R30E Apache County, Arizona
14. PERMIT NO.
State No. 381
15. ELEVATIONS (Show whether DF, RT, GR, etc.)
8491' OL

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

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

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

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

7" casing set at 3850'. FBTD 3700'. Interval from 3664'-3690' had been perforated, acidized & fraced. On swab test well would not produce. Drig out bridge plug at 3700' and clean out hole to 3780'. Set 6 sxs cal-seal plug from 3752-3780'. New FBTD 3752'. Installed shot of 340 quarts of 100% nitroglycerin from 3752' to 3664' w/umbrella bridge on top. Dumped 5 gals. pea gravel and 9 sxs cal-seal on top of nitro. Filled hole with water. Shot went off 8:25 AM 5-28-67. Pipe did not move. Now cleaning out.

18. I hereby certify that the foregoing is true and correct
SIGNED [Signature] TITLE **Production Supt.**
(This space for Federal or State office use)
APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY: _____



10

10

6-1-67

perf 3664 - 3690
Acidized and froked w/ 30,000 gal crude
+ 15,000 # sand. Swatted down.
Now cleaning out.

Shot 340 Quarts nitro glycerin (100%)
from 3752 - 3664
 ↑ ↑
 bottom Top of interval

Have some fill up w/ oil - may be
O.K. - Now cleaning out.

301

13

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-0603-8899

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME

NAVAJO "B"

8. FARM OR LEASE NAME

NO. 1

9. WELL NO.

10. FIELD AND; POOL, OR WILDCAT

Dineh-bi-Koyah

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

Sec. 5-T35N-R30E

12. COUNTY OR PARISH 13. STATE
Apache Arizona

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
KERR-MCQUEE 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 NW Sec. 5-T35N-R30E Apache County, Arizona

14. PERMIT NO.
State No. 381

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
8491' GL

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) <input type="checkbox"/>	(Other) <input type="checkbox"/>

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

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

7" casing set at 3850'. Plug back total depth 3700'. Tested casing and plug back with 1000 psi for 30 mins. Held OK. Perf casing with 1 jet/ft. (0.46" Hole) from 3664'-3690'. Ran tubing and packer. Acidized with 26 balls, 3% HFL acid. Max. treating pressure 2750 psi. Min treating pressure 1000 psi. Used 26 balls. Swabbed hole dry. Frac with 30,000 gals crude, 15,000# 10-20 sand and 1500# adonite; Max. press. 2500# psi. Min. press. 2350 psi. Re-perforate with 4 jets/ft from 3664'-3690' (0.46" hole).

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

SIGNED

TITLE PRODUCTION SUPT.

DATE 5-25-67

(This space for Federal or State office use)

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

USGS-1 & 1
Aris - 2
Tribe - 1
JIF - 1
WRF - 1
RF - 1

*See Instructions on Reverse Side



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. INDIAN, ALLOTTEE OR TRIBE NAME
NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
NAVAJO "B"

9. WELL NO.
NO. 1

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

11. SEC. T. R. M. OR BLM. AND SURVEY OR AREA
Sec. 5-135N-R30E

12. COUNTY OR PARISH
Apache Co.

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
**1980' FNL & 2160' FNL SE NW Sec. 5-135N-R30E
Apache County, Arizona**

14. PERMIT NO.
State No. 381

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
8491' OL

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input 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) Plug Back. <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>			

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

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

7" casing has been set at 3850' and cemented. Perf interval from 3710'-46' was squeezed with 200 sxs cement. Drilling 6-1/4" hole to 4130' and logged. Pennsylvanian-Mississippian contact at 4030'. Set 77 sxs cement plug 4080'-3800'. Set Cast Iron Bridge Plug at 3780'. Re-squeezed perf 3710'-46' with 200 sxs cement. Squeeze pressure 2800 psi. Set cast iron bridge plug at 3700'. Total depth 4130'. Plug back total depth 3700'.



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

SIGNED [Signature] TITLE **PRODUCTION SUPT.** DATE **5-22-67**

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

USGS
Ariz. Tribe
JIP
RF

*See Instructions on Reverse Side

15 381

Re: B-1

5-10-67 11:30 PM
Call from Bud Williams - Kerr McGee

Old T.D + pipe to 3850'
Drilled to 4130' (new T.D.)
Top of Miss 4030'
No new sill - Miss. dry
Will plug back to 3770 ± (PBTD)
& perforate sill at 3664 to 3690
(expect this to be same producing
zone as in Humble 1-138)

Plugs

3980 - 4080 (across Penn + Miss
contact)

3800 - 3900

3770 cast iron bridge plug
all intervals to be filled with mud
Verbal OK given
Sundry Report to follow
J.B.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
Kerr-McGee Corporation

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface
1980' FWL & 2160' FWL of Sec. 5-T35N, R30E.
 At proposed prod. zone
Same

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

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
1980'

16. NO. OF ACRES IN LEASE
2533

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
2485'

19. PROPOSED DEPTH
4550'

17. NO. OF ACRES ASSIGNED TO THIS WELL

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
8491' GR

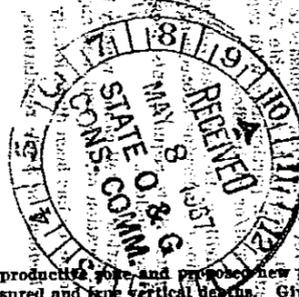
22. APPROX. DATE WORK WILL START*
5-4-67

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
6-1/4"	5"	13# or 15#	4550'	Sufficient

7" casing has been set at 3850' and cemented. Perf interval from 3710-46' has been tested and is to be squeezed off with 200 sacks cement. Propose to deepen well to Cambrian. Well was originally proposed to be drilled to 3800'.

(Confirming Verbal Request).



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present production 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 [Signature] TITLE **Prod. Supt.** DATE **5-5-67**

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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

17 381

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

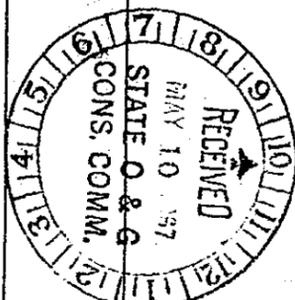
Form approved.
Budget Bureau No. 42-R356.6.
LAND OFFICE Farmington, New Mex.
LEASE NUMBER U-20-0603-8899
UNIT NAVAJO B LEASE

LESSEE'S MONTHLY REPORT OF OPERATIONS

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 APRIL, 19 67
Agent's address 215 PETROLEUM CENTER BLDG. FARMINGTON, NEW MEXICO Company MERR-PCOEE CORP.
Phone 327-9637 Signed [Signature] 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 casing at 3850' with 100 sacks neat cement. Perf. csg 3710' + 10% acetic acid and 15,000' oil and 15,000' sand.</u>					<u>8-3/4" hole to 3850'. Set 7" 20#, J-55, ST&C Pozmix 50-50 w/4% gel and 50 sacks and acidized with 900 gals. 3% HF1 acid. Frac with 30,000 In 7 days swabbing recovered 507 bbls load oil.</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 918'. Set 9-5/8", 32,30# H-40 ST&C Casing at 910' Drilling 8-3/4" hole to 4565'.</u>					<u>8-3/4" hole to 918'. Set RKB with 800 sacks cement.</u>

Handwritten notes:
B# 2
Permit # 388
Have Price Dr. Co



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 JB
Date 9-20-67

Contractor _____ Person(s) Contacted _____

Spud Date _____

Type Rig _____ Rotary Cable Tool Present Operations _____

Samples _____

Pipe _____ Drilling with Air Mud _____

Water Zones _____ Size Hole _____

Lost Circ. Zones _____ Size Drill Pipe _____

Formation Tops _____ Type Bit _____

Cores, Logs, DST _____ No. Bit _____ Drilling Rate _____

Formation _____

Crews _____ Lithology _____

REMARKS, PHOTO, MAP



Setting well head control
(Blow out preventors).

Good quantity of gas escaping.

This will probably be a gas well
although KM waiting on completion
of B-2 before completing this
well.

Sign up - no Permit No.

WELL NAME Kot McGee # 1B Navajo

Permit No. 381

Confidential Yes No

From the Desk of

JOHN BANNISTER

4-11-67

Tele - Barton

B1 TD 3850'

Set casing to TD - 150 SX (Bond Log
9200 2800
on)

Plug back TD 3734

Perf. 1 shot per ft. 3710-3746

Treated 900 gal acetic acid
1500 hydrochloric acid

Fracked - 30,000 gal Oil 15,000 sand

(51 gpm per min)

NO FREE OIL

Reperforated 4 shots per ft

making 391 MCF

Recovered 681 Bbls hard Oil coming in
slow - looks like gas well

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THE DATE*
(Other instructions on reverse side)

Form approved
Budget Bureau No. 42-21424

5. LEASE DESIGNATION AND SERIAL NO.
14-20-0603-8899

6. INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Navajo

9. WELL NO.
381

10. PIRED AND POOL, OR WILDCAT
Block 11 Navajo

11. SEC. T. R. M. OR B.L. AND SURVEY OR AREA
Sec. 5, T35N, R30E

12. COUNTY OR PARISH 13. STATE
Apache 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
1980' FFL and 2,160' FFL of Section 5, T35N, R30E, Apache County, Arizona.

14. PERMIT NO.
State No. 381

15. ELEVATIONS (Show whether DF, RT, OR, etc.)
8,491' OR

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

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

(NOTE: Report results of multiple completion on Well Completion or Recombination 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.)*

The well was perforated on 4-6-67 with one hole per foot from 3,710' to 3,745'. On 4-6-67, these perforations were acidized with 900 gallons of 10% acetic acid. Subbed this acid back. On 4-7-67 acidized with 1,500 gallons of 3% hydrochloric acid. Subbed tested well. On 4-8-67, fractured with 30,000 gallons of oil and 15,000 gal. sand. Reperforated interval from 3,710'- 3,746' with 4 jets per foot. Subbing back frac oil.

CONFIDENTIAL

Please keep this information confidential as long as the laws allow.

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

SIGNED C. J. Breiden

TITLE Engineer

DATE April 30, 1967

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____



*See Instructions on Reverse Side

4-7-67 Telcon w/Otto Barton

Re: Kerr-McGee #3X Navajo

4-4-67 Swabbed 271 barrels load oil

4-5-67 Swabbed 490 barrels new oil in 11 hours. Didn't
lower below ~~4,170~~ feet.
1,700

4-6-67 Setting Reeda pump. Should be finished by Saturday
(4-8-67). Pending availability of tank storage, will
probably pump test that same weekend.

X

Re: Kerr-McGee #B1 Navajo

Perforated 3710-3746, 1 shot per foot. Acetic acid and 3%
solution hydrofluoric acid into formation. Will fract 4-8-67.

Re: Kerr-McGee #7 Navajo

Drilling at close to 3,000 feet. Will probably core sometime
during night. Probably log some time Sunday night (4-9-67).

381

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Form 9-331
(May 1963)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THIS DATE
(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. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Navajo

9. WELL NO.
B-1

10. FIELD AND POOL OR WILDCAT
Wildcat

11. SEC. T., R., M., OR BLM. 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
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
1980' FNL and 2160' FWL of Section 5, T35N, R30E, Apache County, Arizona

14. PERMIT NO.
State Number 381

15. ELEVATIONS (Show whether OF, RT, GR, etc.)
8491' 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 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 (Other)	<input type="checkbox"/>	(Other) <u>test of production casing</u>	<input checked="" type="checkbox"/>
FULL OR ALTER CASING	<input type="checkbox"/>	REPAIRING 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 type="checkbox"/>		

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

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

After setting and testing surface casing at 321' RKB, drilled 8 1/2" hole to 3850'. Set 7" OD, 20#/ft, J-55, ST&C casing at 3850' RKB. Cemented with 100 sacks of posmix, 4% gel and 1/4" floccle per sack followed by 50 sacks common cement. Pumped and plug down with 900 gallons of 10% acetic acid and water. Bumped plug with 1000#. Plug down at 9:15 AM, 4-3-67. Waited on cement 12 hours. Tested casing to 1500# for 30 minutes. Held Okay.

301

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

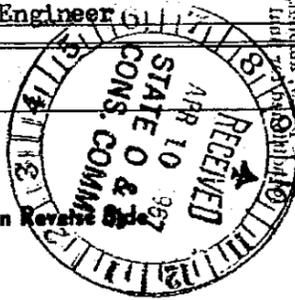
SIGNED E.C. Smith

TITLE Engineer

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____



*See Instructions on Reverse

21

ARIZONA

CA-20

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

Page No. 1

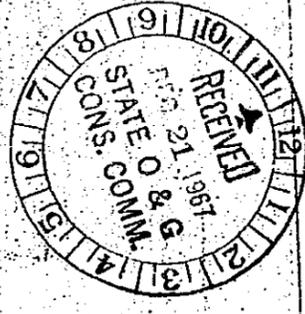
CORE ANALYSIS RESULTS

Company KERR-MCGEE OIL COMPANY Formation PENNSYLVANIAN File RP-3-2193
Well NAVAJO B-1 Core Type D/C Date Report 4/3/67
Field UNDESIGNATED Drilling Fluid WATER BASE GEL Analysts GRAHAM
County APACHE State ARIZONA Elev. 8503 KB Location SEC. 5-T35N-R30E

Lithological Abbreviations

SAND-SB SHALE-SH LIME-LM	DOLOMITE-DOL CHERT-CN GYPSUM-GYP	ANHYDRITE-ANHY CONGLOMERATE-CONG FOSSILIFEROUS-FOSS	SANDY-SBT SHALY-SHT LIMY-LMT	FINE-FN MEDIUM-MED COARSE-CS	CRYSTALLINE-CLM GRAIN-GRN GRANULAR-GRNL	BROWN-BRN GRAY-GY TUFFY-TUF	FRACTURED-FRAC LAMINATION-LAM STYLOLITIC-STY	SLIGHTLY-SL VERT-V/ WITH-W/
--------------------------------	--	---	------------------------------------	------------------------------------	---	-----------------------------------	--	-----------------------------------

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
1	3678-79	0.09	10.6	7.5	45.0	THIS ROCK IS A BIOTITE RICH VOGESITE, AND BELONGS TO THE SYENITE LAMPROPHYRE GROUP OF IGNEOUS ROCKS. THE ENTIRE SAMPLED INTERVAL IS ROCK OF THIS TYPE VERT. FRAC IN SAMPLE #2
2	3683-84	0.14	10.5	9.5	29.2	
3	3688-89	0.14	11.3	7.1	31.0	
4	3693-94	0.13	14.3	8.4	39.0	HORIZ. FRAC.
5	3698-99	0.13	11.5	7.0	44.0	
6	3703-04	0.16	9.7	0.0	56.0	
7	3708-09	0.03	9.6	3.1	52.0	
8	3712-13	0.12	11.3	8.9	22.8	
9	3715-16	0.14	13.3	8.3	23.4	HORIZ. FRAC.
10	3717-18	0.19	12.8	10.0	29.2	VERT. FRAC
11	3720-21	0.07	8.8	0.0	62.6	
12	3723-24	0.08	12.1	10.7	41.3	
13	3724-25	0.30	14.6	12.3	27.5	HORIZ. FRAC.
14	3725-26	0.14	17.9	5.6	25.7	HORIZ. FRAC.
15	3726-27	0.01	9.4	0.0	62.8	HORIZ. FRAC.
16	3727-28	0.08	12.2	15.6	37.8	HORIZ. FRAC.
17	3728-29	0.14	12.6	7.9	39.7	HORIZ. FRAC.
18	3732-33	0.03	11.0	0.0	55.0	HORIZ. FRAC
19	3736-37	0.12	13.8	13.1	38.5	
20	3737-38	0.40	12.1	16.5	43.0	HORIZ. FRAC,
		CORE #2				
21	3738-39	0.09	11.1	17.0	43.0	
22	3739-40	0.04	11.0	7.3	64.5	
23	3740-41	0.10	11.5	25.2	45.2	
24	3741-42	0.07	7.4	8.1	68.9	VERT. FRAC.
25	3742-43	0.11	16.0	12.5	41.3	VERT. FRAC.
26	3743-44	1.12	14.4	12.5	50.7	VERT. FRAC.
		SERVICE #1-A				



These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or probability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

#381

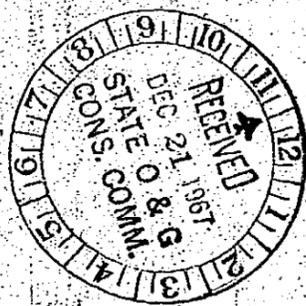
CORE ANALYSIS RESULTS

Company KERR-MCGEE OIL COMPANY Formation PENNSYLVANIAN File RP-3-2193
Well NAVAJO B-1 Core Type D/G Date Report 1/3/67
Field UNDESIGNATED Drilling Fluid WATER BASE GEL Analysts GRAHAM
County APACHE State ARIZONA Elev. 8503 KB Location SEC. 5-T35N-R30E

Lithological Abbreviations

SAND-SB DOLOMITE-DOL ANHYDRITE-ANHY SANDY-SBT FINE-FM CRYSTALLINE-CLN BROWN-SBN FRACTURED-FRAC SLIGHTLY-SL/
SHALE-SH CHEST-CH CONGLOMERATE-CONG SHALY-SMT MEDIUM-MED GRAIN-GRN GRAY-GY LAMINATION-LAM VERT-V/
LIME-LM SUTON-SUT FOSSILIFEROUS-FOSS LIMY-LMY COARSE-CSE GRANULAR-GRNL YUGGY-YGY STYLOLITIC-STY WITH-W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
27	3744-45	0.75	14.2	12.7	32.4	
28	3745-46	0.04	13.6	22.8	39.7	
29	3746-47	0.19	11.4	15.8	56.1	VERT. FRAC.
30	3747-48	0.59	15.0	18.7	32.6	VERT. FRAC.
31	3748-49	0.36	8.0	12.5	63.7	VERT. FRAC.
32	3749-50	0.02	9.1	9.9	68.2	VERT. FRAC.
33	3750-51	0.05	10.4	22.1	64.4	VERT. FRAC.
34	3751-52	0.18	11.2	0.0	71.4	VERT. FRAC.



SERVICE #1-A

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted), but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

4-3-67 Telcon w/Otto Barton

Re: Kerr-McGee #3X

TD 3600

Perforated: 3427-3457, 1 shot per foot.
1500 gals. acetic acid into formation. Got small show of oil and of gas. Then acidized with 1500 gals. of 3% hydrofluoric acid. Gush of oil came back; but settled to 1-2 barrels per hour. Then fract wit. Put 5500 gals of in in front of the fract--15000 lbs sand and 30000 gals. load oil; pressure 1700 lbs. Swabbed 4-2-67, 1700 ~~xxx~~ barrels in 11 hours. Should get rest of fract today; test tomorrow.

Re: Kerr-McGee #B1

Came in way high.

Cored 3678-3762. 28 feet of core looks good; bottom 2 feet are shale.

Started setting pipe last night, 4-2-67, and finishing this morning. 7" production to TD of 3850.

Re: Kerr-McGee #7

Spudded 3-29-67 at 8:30 p.m.

Surface pipe (10-3/4") set to 473.73 KB with 500 sax common cement.

Drilling now at ¹⁶⁷⁵~~1675~~

Have had a couple of fishing jobs--trouble at bottom of Coconino.

	4-1-67	4-2-67
#1 Navajo Production	818	836
#2 Navajo Production	3,013	3,000+ (wasn't sure of exact)

Pressures on these wells have not changed; nor has gas/oil ratio.

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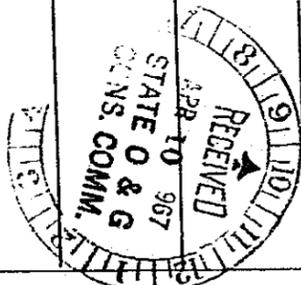
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R356.5.
LAND OFFICE Farmington, New, Mex
LEASE NUMBER 14-20-0603-8899
UNIT Nawajo No. B-1

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Arizona County Apache Field Wildcat
The following is a correct report of operations and production (including drilling and producing wells) for the month of March, 1967.
Agent's address P.O. Box K, Sunray, Texas Company Kerr-McGee Corporation
Signed E.C. Reich, Jr.
Phone Ac 806 No 948-4118 Agent's title Engineer

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)
SE NW Sec 5	35N	30E	B-1	0	0		0	0	0	
<p>Spudded on 3-7-67. Drilled 8 3/4" hole to 400'. Reamed hole 15" from 0' to 323'. Set 10 3/4" OD, 32.75#/ft, H-40, ST&C casing at 321' RKB. Cemented with 310 sacks of common cement plus 2% Calcium Chloride and 1/4# of Floccels per sack. Plug down at 11:30 AM, 3-9-67. Cement did not circulate. Ran tubing between casing and side of hole. Found cement 60' from surface. Cemented with 120 sacks common cement plus 2% Calcium chloride and 1/4# floccels per sack. Circulated cement. Plug down at 4PM, 3-9-67. After waiting on cement 13 hours, tested casing and BOP with 1000# for 30 minutes. Held OK. Drilled 8 3/4" hole to 2113' where stuck pipe on 3-15-67. Worked and fished stuck pipe to 3-19-67 when recovered fish. Drilled 8 3/4" hole to 3772'. Cored hole from 3678' to 3762'. Drilling hole below cored interval.</p>										



381

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.

3-28-67 Telcon, Otto Barton, Kerr-McGee

Re: Kerr-McGee #7 Navajo
SE SW 29-36N-30E, Apache County
Permit 389

Will move in rig today. Casing program changed from 9-5/8"
to 10-3/4".

Re: Kerr-McGee #3A Navajo
SE SE 32-36N-30E, Apache County
Permit 386

Cored and set 7" j55 7lb. pipe to 3582.7 KB. Cemented with
150 sax. Hole size at that depth is 8-5/8".

Cored 54 feet--received 28 feet good pay section. Last 2
feet of core is shale. Expect to come in like #1 Navajo.

Re: Kerr-McGee #1 Navajo
SE SW 32-36N-30E, Apache County
Permit 377

Making about 700 BPD with new Reeda pump.

Pump is pulling well faster than hole will fill up; so running
about 45 minutes, shutting down pump for about 30 minutes, and
then starting up again.

Contemplating new fract job.

Re: Kerr-McGee #2 Navajo
SE NW 32-36N-30E, Apache County
Permit 379

Making right at, but has not made, 3000 BPD.

Re: Kerr-McGee #B1 Navajo
SE NW 5-35N-30E, Apache County
Permit 381

Drilling slow. Rig too small for altitude and bigger rig is
being brought in. Small rigs will be released.

WELL SITE CHECK

By _____
Date _____

Contractor _____ Person(s) Contacted _____

Spud Date _____

Type Rig _____ Rotary Cable Tool Present Operations _____

Samples _____

Pipe _____ Drilling with Air Mud _____

Water Zones _____ Size Hole _____

Lost Circ. Zones _____ Size Drill Pipe _____

Formation Tops _____ Type Bit _____

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

_____ Formation _____

Crews _____ Lithology _____

REMARKS, PHOTO, MAP

3-21-67 Otto Barton phoned. Recovered fish.
Drilling ahead at 2500'.

WELL NAME Kerr McGee BI Navajo

Permit No. 381
Confidential: yes (No)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	5. LEASE DESIGNATION AND SERIAL NO. 14-20-0603-8889
2. NAME OF OPERATOR Kerr-McGee Corporation	6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR P.O. Box 3, Sunray, Texas 79086	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 1,980' FWL and 2,160' FWL of Section 5, T35N, R30E, Apache County, Arizona	8. FARM OR LEASE NAME Navajo
14. PERMIT NO.	9. WELL NO. B-1
15. ELEVATIONS (Show whether DP, RT, GR, etc.) 8,491' GR	10. FIELD AND POOL, OR WILDCAT Wildcat
	11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA 5-T35N-30E
	12. COUNTY OR PARISH Apache
	13. STATE Arizona

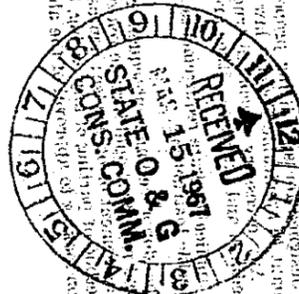
18. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

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

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

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

Spudded on 3-7-67. Drilled 8 3/4" hole to 400'. Reamed xxx hole to 15" from 0' to 323'. Set 10 3/4" OD, 3275#/ft.. H-40, STAC Casing at 321' RKB. Cemented with 310 sacks of common cement plus 2% Calcium Chloride and 1/4% of floccule per sack. Plug down at 11:30 AM, 3-9-67. Cement did not circulate. Ran tubing between casing and side of hole. Found cement 60' from surface. Cemented with 120 sacks of common cement plus 2% Calcium Chloride and 1/4% of floccule per sack. Circulated cement. Plug down at 4 PM 3-9-67. After waiting on cement 13 hours, tested casing and BOF with 1,000# for 30 minutes. Held OK. Now drilling 8 3/4" hole.



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

SIGNED E. J. Buehler TITLE Engineer DATE 3-15-67

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

381

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NDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Kerr-McGee Corporation
 2. OIL WELL GAS WELL OTHER (Specify) _____
 3. Well Name Navajo No. B - 1
 Location 1,980' FNL and 2,160' FWL of
 Sec. 5 Twp. 35N Rge. 30E County Apache, Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-0603-8889 Navajo

5. Field or Pool Name Wildcat

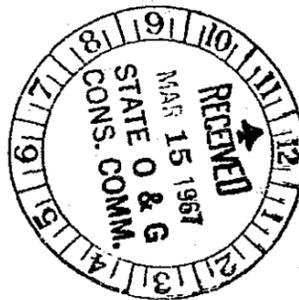
6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

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

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

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

Originally intended to set 9 5/8" OD, 36#/ft, J-55, casing at 300'. Set 10 3/4" OD, 32.75#/ft, H-40, ST&C casing at 321' RKB. Cemented with 310 sacks of common cement plus 2% Calcium Chloride and 1/4# of flocele per sack. Cement did not circulate. Ran tubing between hole and casing, found cement 60' from surface. Cemented with 120 sacks of common plus 2% Calcium Chloride and 1/4# flocele per sack. Job complete at 4 PM, 3-9-67. Circulated cement. After 13 hrs. of Waiting on cement, tested casing and BOP with 1000# for 30 minutes. Held OK. The hole was spudded 3-7-67. Drilled 8 3/4" hole to 400', Reamed hole to 15" from 0' to 323'.



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

Signed G. J. Breeden Title Engineer Date 3-13-67

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

Permit No. 381

3-13-67

Telcon w/Joe Breeden, Kerr-McGee

Re: #1 Navajo
Permit 377

0800 gauge this date showed 606 barrels produced

Re: #2 Navajo
Permit 379

Reeda pump installed. Started pumping Sunday, March 12.
In 24 hours pumped 2,856.5 barrels.

Bottom of pump at 2590; as nearly as can tell top of fluid is
at 1100 feet. Pumping did not lower level of fluid.

Re: #B1 Navajo
Permit 381

drilling at 1,668 this morning.

Drilling contractor: Carmack Drilling Company, Grand Junction,
Colorado

381

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3-7-67
Telcon with Joe Breeden, Kerr-McGee

Re: #1B Navajo
SE NW 5-35N-30E, Apache County
Permit 381

Should spud about noon today.

381

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Re: #3 Navajo (Permit 380) and #B1 Navajo (Permit 381)
wants to run 10-3/4" surface pipe instead of 9-5/8".

Otto Barton, Telcon 2-27-67

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	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE 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 1980' FNL and 2160' FWL of Section 5, T35N, R30E At proposed prod. zone Apache County, Arizona Same as above			9. WELL NO. B-1	
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) 1,980'	16. NO. OF ACRES IN LEASE 2,533	17. NO. OF ACRES ASSIGNED TO THIS WELL 80	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 5-T35N-R30E	
18. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None	19. PROPOSED DEPTH 3,800'	20. ROTARY OR CABLE TOOLS Rotary	12. COUNTY OR PARISH 13. STATE Apache Arizona	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 8,491' GR		22. APPROX. DATE WORK WILL START* 3-1-67		
23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	36	300'	Sufficient to circulate.
8 3/4"	7"	20	3,800'	Sufficient to cover all potentially productive zones.

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.

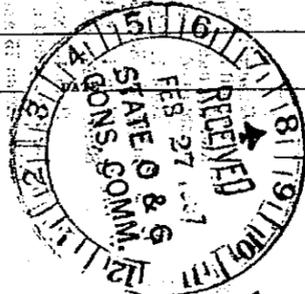
SIGNED W. C. Barton TITLE Div. Supt. Oil & Gas Prod. DATE February 22, 1967

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side





PERMIT TO DRILL

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

To: KERR-MC GEE CORPORATION
(OPERATOR)

to drill a well to be known as

KERR-MCGEE #B1 NAVAJO
(WELL NAME)

located 1 1/2 1980' FWL and 2160' FWL (SE/4NW/4)

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

The E/2 NW/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 27th day of February, 19 67.

OIL AND GAS CONSERVATION COMMISSION

By John Bannister
EXECUTIVE SECRETARY

PERMIT N^o 381

RECEIPT NO. 9475

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

- 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>W.C. Barton</i></p> <p>Position: Div. Supt. Oil & Gas Prod.</p> <p>Company: Kerr-McGee Corporation</p> <p>Date: February 22, 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
9 5/8"	36	J-55	0	300'	0 - 300'	Sufficient to circulate.
7"	20	J-55	0	3,800'	Sufficient to cover all potentially productive zones.	

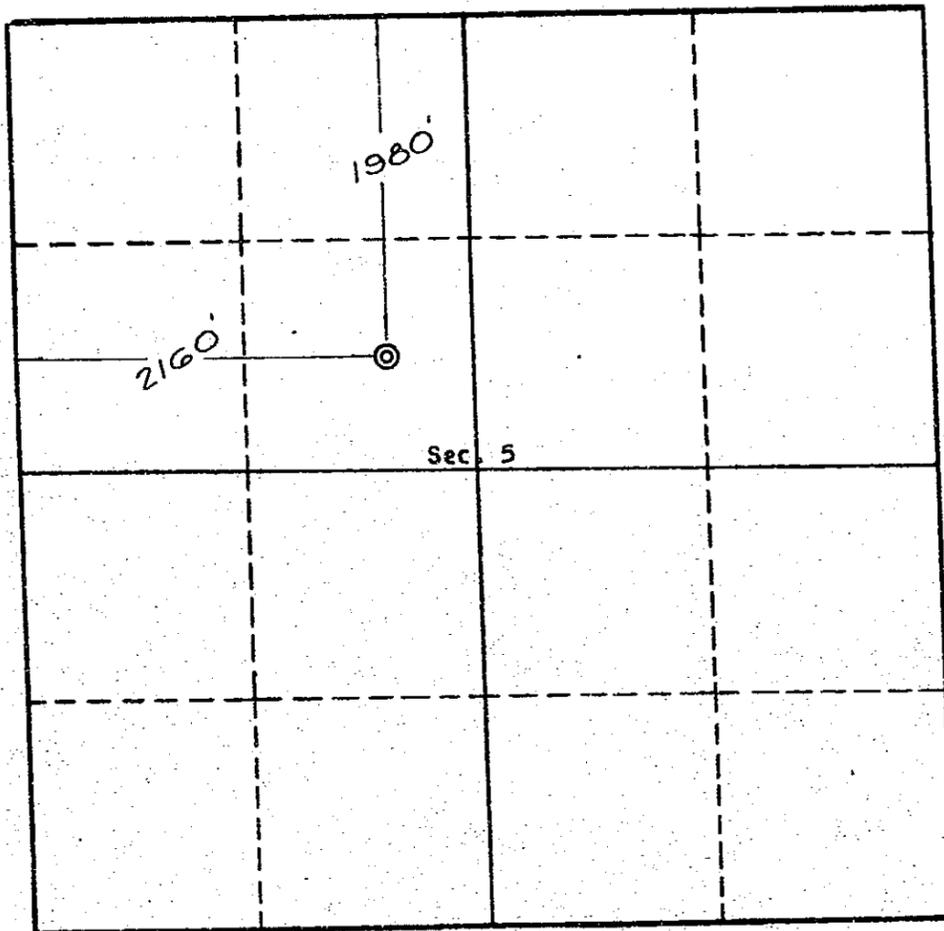
Company KERR-McGEE OIL INDUSTRIES, INC.

Well Name & No. B-1 Navajo

Location 1980 feet from the North line and 2160 feet from the West line.

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

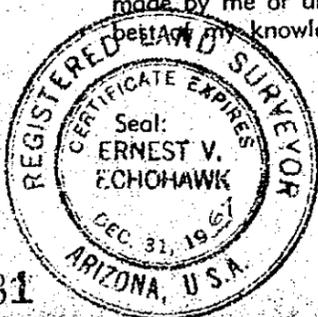
Ground Elevation 8491



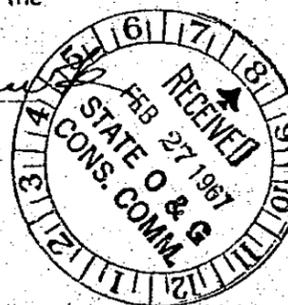
Scale, 1 inch = 1,000 feet

Surveyed February 8, 19 67

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





Fife Symington
Governor

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



Larry D. Fellows
Director and State Geologist

June 8, 1994

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

Dear Ms. Burkhart:

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

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

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

Sincerely,

Steven L. Rauzi
Oil & Gas Program Administrator

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

CHANGES TO REPORTER INFORMATION

OLD INFORMATION:

MMS OPERATOR CODE: X 0 2 1 7

COMPANY NAME: K E R R M C I G E E C O R P O R A T I O N

NEW INFORMATION:

MMS OPERATOR CODE: X 0 2 7 4

COMPANY NAME: M O U N T A I N S T A T E S P E T R O L E U M C O R P

CONTACT NAME: R U B Y W I C K E R S H A M

STREET ADDRESS: 2 1 3 E F O U R T H

CITY: R O S W E L L

STATE: N M ZIP CODE: 8 8 2 0 1 -

PHONE: 5 0 5 6 2 3 - 7 1 8 4
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: AZ OIL & GAS
CONSERVATION COMMISSION

LEASES / AGREEMENTS AFFECTED: NAVAJO #B-1 (381) JUN 3 1994

Dineh Bi Keyah Field - Apache County, Arizona

Lease #: 14-20-0603- 8889 API #: 020012000600S1

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

SIGNATURE: *Judy Busbhart*

DATE: 5/13/94

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

P. O. BOX 1936

505 623-7184

MOUNTAIN STATES PETROLEUM CORPORATION

213 EAST FOURTH STREET
ROSWELL, NEW MEXICO
88202

June 6, 1994

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

**AZ OIL & GAS
CONSERVATION COMMISSION**

JUN 8 1994

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

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

Dear Sir;

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

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

Sincerely,

Judy 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 Burkhardt

Judy Burkhardt,
Secretary

Attachment

CONSERVATION COMMISSION

MAY 31 1994

Operator KERR-McGEE CORPORATION

Bond Company FIREMEN'S INSURANCE COMPANY
OF NEWARK, NEW JERSEY Amount \$25,000

Bond No. BND 188 98 10-528 Date Approved OCTOBER 19, 1973

ACTIVE

Permits covered by this bond:

377	446
381 P.A. 10/13	484
384	506
385	618
386	691
388	692
389	693
390	695
396	696
416	719
417	720
419	721
421	722
422	723 — bond
431	
443	
445	



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

MEMORANDUM TO FILE

DATE: September 30, 1993

FROM: Steven L. Rauzi *SLR*
Oil and Gas Program Administrator

SUBJECT: Approval of Revised P & A Procedure dated 9/30/93
KERR-MCGEE CORPORATION, NAVAJO-B #1, PERMIT NO. 381

Mr. Kim Biggs, Kerr McGee Corporation, called to revise the plugging procedure for the Navajo-B #1 dated 10/30/92 due to a hole in the 7" casing at 418 ft. The hole at 418 ft will prevent circulation of cement from 810 ft to surface as described in step 9.

The revised procedure is to set a cement plug to fill the 7" casing inside and out from 810 up to 610 ft. A second cement plug will be set from the hole in the 7" casing at 418 ft up to the surface. A copy of the revised plan was faxed to this office today and it is in accord with the procedures we discussed this morning.

This plan will effectively isolate the Wingate and Chuska Sandstones and will prevent migration of fluids in the plugged wellbore. Therefore, the revised plan is approved.

9-30-93 Ray Benally calls to report P+A
of Nav B-1 on Tuesday 10-5-93.

9-30-93 Kim Biggs, KUM, calls to report hole
in CSG at 418'. Will revise
P+A procedure because holes @ 418'
will prevent circ of cmt to surface.

→ Spot cmt plug to fill CSG inside
and out from 810' up to 610'

→ set retainer below 418' and circ
cmt (filling CSG inside and out) from
418' to surf.

This plan effectively isolates the Glen Canyon
Group SS and Chuska SS and prevents migration
of fluids from below or above. ∴ I approve
this revision to the P+A procedure dated
10/30/92.

SLR



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

November 30, 1992

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

Re: **Approved P&A Procedure for Navajo "B" #1, Dineh-Bi-Keyah Field, Arizona**

Dear Mr. Bunas:

Enclosed is your copy of the approved P&A procedure dated 10/30/92.

Sincerely,

Steven L. Rauzi
Oil and Gas Program Administrator

Enclosure

10-28-92

Charles Carlton KM Corp.

disinfect Pt A of Navajo B-1

cont plug from 810 to Surf (Chusker SS)

heavy mud

Cont plug from 2020' up to 1430 (Coronino SS)

heavy mud

Cont plug across all perms.

SLR



Fife Symington
Governor

State of Arizona
Arizona Geological Survey

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

Larry D. Fellows
Director and State Geologist

March 5, 1992

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

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

Dear Mr. Bunas:

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

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

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

Sincerely,

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

Steven L. Rauzi
Oil and Gas Program Administrator



KERR-McGEE CORPORATION

KERR-McGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73125

RECEIVED

OCT 21 1986

O & G CONS. COMM.

PLEASE REPLY TO:

EXPLORATION AND PRODUCTION DIVISION
U.S. ONSHORE REGION
P. O. BOX 25861
OKLAHOMA CITY, OKLAHOMA 73125

PHONE

405 848-9750

October 15, 1986

Bureau of Land Management
Caller Service 4104
Farmington, New Mexico 87499

<i>P/M 421</i>	<i>P/M 443</i>	<i>P/M 381</i>
RE: Navajo Tract 88 #1	Navajo Tract 88 #3	Navajo "B" #1
Dineh-Bi-Keyah Field	Dineh-Bi-Keyah Field	Dineh-Bi-Keyah Field
Apache County, AZ	Apache County, AZ	Apache County, AZ
Lease #14-20-0603-8812	Lease #14-20-0603-8812	Lease #14-20-0603-8889

Gentlemen:

As requested in your attached letter, enclosed are Sundry Notices for the above wells. Kerr-McGee requests that these wells remain in a temporarily abandoned status as they may be utilized in a possible future waterflood project.

If additional information is required, please advise.

Sincerely,

KERR-McGEE CORPORATION

Gaylan Bunas
Analyst II

Joe D. Stein
Manager - Engineering
Onshore - N.A.

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

I. Geddie/CFR
WRF
GB/CF

GGB047/rlw



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Caller Service 4104
Farmington, New Mexico 87499

IN REPLY REFER TO:

14-20-0603-8812 et al. (WC)
3162.3-1.0 (016)

OCT 06 1986

REC'D

OCT 11 1986

SWD

LWA
RAS
JRH
X-FILE/WR
Copy's to
C.A. Baker
Joe Steid

CERTIFIED--RETURN RECEIPT REQUESTED

Kerr McGee Corporation
P.O. Box 250
Amarillo, TX 79189

Gentlemen:

Reference is made to the following wells:

1. No. 1 Navajo Track 88, SE/4SE/4 sec. 25, T. 36 N., R. 29 E., Apache County, Arizona, lease 14-20-0603-8812.
2. No. 3 Navajo Track 88, SE/4NE/4 sec. 36, T. 36 N., R. 29 E., Apache County, Arizona, lease 14-20-0603-8812.
3. No. 1 Navajo "B", SE/4NW/4 sec. 5, T. 35 N., R. 30 E., Apache County, Arizona, lease 14-20-0603-8889.

These wells have been approved for plugging for over a year. If the wells have been plugged, you are required to submit your subsequent report of abandonment. If the wells have not been plugged, you are required to submit your plans of when these wells are to be plugged. Your reply must be filed on a Sundry Notice (Form 3160-5, six copies each).

Failure to submit the above within 15 days of receipt of this letter may result in an assessment for noncompliance pursuant to 43 CFR 3163.3.

You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

Sincerely,

for Ron Fellows
Area Manager

RECEIVED *AKD*

JAN 27 1984

D & G CONS. COMM.



KERR-McGEE CORPORATION

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

OIL AND GAS DIVISION

January 20, 1984

PHONE
806 359-0351

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

Attn: Rudy Ybarra

Re: Application to Abandon and Plug
Kerr-McGee Corporation's Navajo B-1
Located in the Dineh-Bi-Keyah Field,
Apache County, Arizona

Mr. Ybarra:

Drilled in 1967, the well was stimulated in the Lower Hermosa with no hydrocarbons being recovered. The well was then deepened in an effort to test a deeper zone (3850-4130) but this zone was abandoned after no hydrocarbons were recovered. At this time, the well was partially plugged. Starting at the bottom, the open hole interval 3850'-4130' was plugged with 77 sacks of cement. This plug was set from 3800'-4080'. A CIBP was then set at 3780' with 28' of cement on top. A CIBP was set at 3602', Lower Hermosa Sill perforations are 3664'-3746', with 67' of cement on top of the bridge plug from 3602'-3535'.

Statewide Rule 201 (B) of the Arizona Conservation Commission's rules and regulations states that before any work is commenced to abandon any well below the fresh water level, the operator shall prior to the beginning of plugging operations, give written notice of their intention to abandon such a well.

In order to comply with Statewide Rule 201 (B), Kerr-McGee is submitting Form 9, "Application to Abandon and Plug," in duplicate for the Navajo B-1.

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

Sincerely,

Aaron Reyna
Aaron Reyna
Engineering Assistant

Joe Stein
Joe Stein
District Engineer
Southwest District - N.A.

AR/vt
Enclosure

WA

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

PHONE
836 376-7255

July 31, 1971

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

ATTENTION: Mr. W. E. Allen

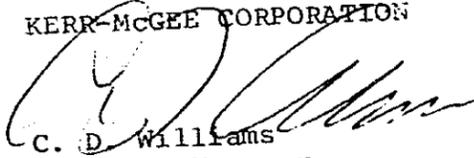
RE: Navajo #5
SE SE, Sec 31-T36N-R30E
Apache County, Arizona
Permit #392
Navajo B #1
SE NW, Sec 5-T35N-R30E
Apache County, Arizona
Permit #381

Dear Mr. Allen:

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

Sincerely yours,

KERR-MCGEE CORPORATION


C. D. Williams
District Manager
Southwestern District
Production Division

CDW:kj
Enclosures

RECEIVED

AUG 2 1971

O & G CONS. COMM.



RECEIVED

FEB 22 1971

O & G CONS. COMM.

PHONE
806 376-7256

February 17, 1971

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

ATTENTION: Mr. W. E. Allen

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

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

Dear Mr. Allen:

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

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

If additional information is needed, please advise.

Sincerely yours,

KERR-MCGEE CORPORATION

C. D. Williams
District Manager
Southwestern District
Production Division

CDW:kj
Attachment

February 9, 1971

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

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

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

Dear Mr. Breeden:

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

Your prompt attention to this matter will be appreciated.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA:jd
Enc.

Operator KERR MC GEE-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>	386	417
<u>36</u>	389	418
<u>37</u>	390	419
<u>38</u>	391	420
<u>39</u>	392	422
<u>57</u>	396	426
<u>63</u>	397	427
<u>64</u>	398	441
<u>142</u>	399	445
<u>238</u>	402	446
<u>303</u>	403	
<u>90</u>	404	
<u>91</u>	405	
<u>349</u>	406	
<u>363</u>	407	
<u>377</u>	408	
<u>378</u>	409	
<u>379</u>	410	
<u>380</u>	411	
<u>381</u>	413	
<u>384</u>	414	
<u>385</u>	416	

CANCELLED

DATE 10-24-68

→ see this file

Superseded by
 American Casualty Co. Bond
 \$25,000 10-19-73
 #5471020-52
 DATE

381



KERR-MCGEE CORPORATION

KERR-MCGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

215 Petroleum Center Building

Farmington, New Mexico

October 6, 1967

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

Attn: Mr. John Bannister

RE: Navajo B Well #1
SE NW Sec. 5, T35N, R30E
Dineh-bi-Keyah Field
Apache Co., Arizona

Gentlemen:

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

They are listed below:

1. Induction-Electric Log
2. Gamma Ray - Sonic Log

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

Very truly yours,
KERR-MCGEE CORPORATION


C. D. Williams
Production Supt.

CDW/hs

Enclosures

cc: WRF

381

August 7, 1967

Mrs. Anna Smith, Manager
Four Corners Sample Cut Association
P. O. Box 899
Farmington, New Mexico

Re: Kerr-McGee Well Samples
Dineh-bi-neg-ah Field
Apache County, Arizona

Dear Mrs. Smith:

Kerr-McGee Corporation is releasing well cuttings and core chips
from the following Apache County, Arizona, wells to the Four Corners
Sample Cut:

Kerr-McGee #2 Navajo, 2020' FNL & 1980' FWL, Sec.32-36N-30E,
Elev. 7604 GL, 7614 KB. Spudded 2-14-67, Comp. 3-12-67,
T.D. 3275'.

Kerr-McGee #3 Navajo, 950' FSL & 350' FEL, Sec.32-36N-30E,
Elev. 7992 GL, 8002 KB. Spudded 3-11-67, Comp. 4-7-67,
T.D. 3600'.

Kerr-McGee #4 Navajo, 1720' FNL & 870' FEL, Sec.32-36N-30E,
Elev. 7361 GL, 7374 KB. Spudded 6-28-67, Comp. 7-13-67,
T.D. 2960'.

Kerr-McGee #7 Navajo, 590' FSL & 1870' FWL, Sec.29-36N-30E,
Elev. 7498 GL, 7508 KB. Spudded 3-29-67, Comp. 4-22-67,
T.D. 3270'.

Kerr-McGee #9 Navajo, 640' FSL & 550' FEL, Sec.30-36N-30E,
Elev. 7881 GL, 7894 KB. Spudded 4-13-67, Comp. 5-5-67,
T.D. 3720'.

Kerr-McGee #1 Navajo "B", 1980' FNL & 2160' FWL, Sec.5-35N-30E, ✓
Elev. 8491 GL, 8503 KB. Spudded 3-7-67, Comp. 6-22-67,
T.D. 4130'.

Mrs. Anna Smith
August 7, 1967
Page 2

Samples from the foregoing wells will be delivered to your office
this week.

Yours very truly,

KERR-MCGEE CORPORATION

R. W. King

R. W. King
Division Manager

RWK:sg

cc: J. W. McKenny
J. I. Fisher

John Bannister
Arizona O&G Conservation Commission
Room 202 - 1024 West Adams
Phoenix, Arizona 85007

Henry P. Pohlmann
Navajo Tribe Minerals Dept.
412 Petroleum Plaza Bldg.
Farmington, New Mexico

*May
Correct records*

KERR-MCGEE CORPORATION
KERR-MCGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102
215 Petroleum Center Building
Farmington, New Mexico
June 5, 1967

State Of Arizona
Oil & Gas Conservation Comm.
Room 202 - 1524 W. Adams St.
Phoenix, Arizona

Attn: Mr. John Bannister, Executive Sec.

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

Gentlemen:

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

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

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





Attn: Mr. J. Eannister

Page 2

June 5, 1967

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

If additional information is needed, please advise.

Sincerely yours,
KERR-McGEE CORPORATION

C. D. Williams
Prod. Supt.

CDW/hs

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KERR-MCGEE CORPORATION

KERR-MCGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

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

COPY

United States Geo. Survey
Oil & Gas Division
P. O. Box 959
Farmington, New Mexico

Attn: Mr. P. T. McGrath

Navajo Tribe Minerals Dpt.
412 Petroleum Plaza Bldg.
3525 E. 30th. Street
Farmington, New Mexico

Attn: Mr. Henry F. Pohlmann

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

Attn: Mr. John Bannister

RE: USGS Form 9-331
Navajo "B" Well No. 1
& Navajo Well No. 6
Dineh-bi-Keyah Field
Apache County, Arizona

Gentlemen:

Enclosed please find copies of U.S.G.S. Sundry Notices & Reports
on Wells Form for the above captioned wells.

Please keep this information confidential.

Sincerely yours,
KERR-MCGEE CORPORATION

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

CDW/hs

Enclosures

cc: J. L. Fisher
WRF
RF



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KERR-MCGEE CORPORATION

KERR-MCGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

215 Petroleum Center Building

Farmington, New Mexico

May 25, 1967

COPY

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

Attn: Mr. P. T. McGrath

RE: USGS Form 9-331
Navajo "B" Wells
Nos. 1 & 2

Gentlemen:

Enclosed please find USGS form 9-331, Sundry Notices and Reports on Wells, on our Navajo "B" Wells No. 1 and Well No. 2. These wells are located in the Dinoh-bi-Keyah Field in Apache County, Arizona.

Please keep this information confidential.

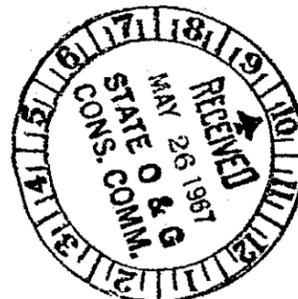
Sincerely yours,
KERR-MCGEE CORPORATION

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

hs

Enclosures

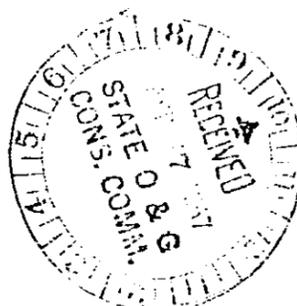
cc: Ariz. O&GCC
Navajo Tribe
J.I. Fisher
WRF
RF





KERR-McGEE

April 25, 1967



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

Gentlemen :

It is our request that all information on producing, Drilling, and Permitted wells operated by Kerr McGee Corporation in Dinah di Keyah 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 potentialed 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
Sunny, Texas.



POST OFFICE BOX "K" - SUNRAY, TEXAS 79086
April 10, 1967

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

Attention: Mr. John Barnister

Gentlemen,

Enclosed are two copies of U.S.G.S. Form 9-331, Sundry Notices and Reports on wells, covering perforating, acidizing, and fracturing of the Kerr-McGee Corporation Navajo No. B-1, located 1,980' FNL and 2,160' FWL 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:



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February 22, 1967

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

Attention: Mr. John Bannister

Gentlemen:

Enclosed herewith are two copies of Arizona Oil and Gas Conservation Commission, Form No. 3, Application for Permit to Drill, and one copy of USGS Form No. 9-331 C, Application for Permit to Drill on Kerr-McGee Corporation's Navajo No. B-1 Well, Apache County, Arizona. The Surveyor's Plat by Mr. Echohawk of Farmington, New Mexico, will be mailed separately.

Also attached is the filing fee in the amount of \$ 25.00.

Yours very truly,

A handwritten signature in cursive script that reads 'Otto C. Barton'.

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

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OCB:wm

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ERNEST V. ECHOHAWK
• SURVEYORS •

NEVADA • ARIZONA • UTAH • COLORADO
WYOMING • MONTANA • NEW MEXICO

PETROLEUM CLUB PLAZA

FARMINGTON, NEW MEXICO 87401

TEL. 327-9001 AC 505

February 23, 1967

Re: Kerr-McGee Oil Industries, Inc.,
new Well Location-B-1 Navajo,
Apache County, Arizona.

State of Arizona
Oil & Gas Conservation Commission
1624 Adams
Phoenix, Arizona

Dear Sir:

Enclosed are three (3) copies of the Well Location plat for Kerr-McGee's
B-1 Navajo Well Location. These plat copies are being filed with your office
as per request of Kerr-McGee Oil Industries, Inc.

Yours very truly,

E. V. Echohawk
Ernest V. Echohawk

EVE:ed

c.c.

O. C. Barton
Kerr-McGee Oil Industries, Inc.
Sunray, Texas

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