KERR MC GEE #7 Navajo 389
SESW 29-36N-30E Apache County

P-W

[redacted]

CONFIDENTIAL

Release Date ~~10-22-67~~ 7-19-67 ltr

s1

COUNTY Apache AREA 15 mi SW Red Rock LEASE NO. Nav 14-20-0630-8823

WELL NAME Mtn. States Petroleum (5-1-94) ~~Kerr McGee~~ #7 Navajo

LOCATION ~~SE SW~~ SEC ~~29~~ TWP ~~36N~~ RANGE ~~30E~~ FOOTAGE ~~1870 FWL - 590 FSL~~

STATUS Oil prod. 9/79 TOTAL DEPTH ~~3270 RKB~~

ELEV ~~7498~~ GR _____ KB _____ SPUD DATE ~~3-39-67~~ COMP. DATE ~~4-22-67~~ Shut in

CONTRACTOR ~~Carmack Drilling~~

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH
10 3/4 OD	473.73 KB	500 SKS	NA
~~7~~	~~3270 KB~~	~~100 SKS~~	

DRILLED BY ROTARY x

DRILLED BY CABLE TOOL _____

PRODUCTIVE RESERVOIR _____

INITIAL PRODUCTION 2578 BOPD+4 B Water 43.8 gravity

FORMATION TOPS	DEPTHS	SOURCE L.L.	SOURCE E.L.	REMARKS
Coconino	760'		x	
Hermosa	3061'			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS
~~IES, Borehole Comp~~ Sonic/GR	~~3072-3112'~~	~~3072'3112~~

SAMPLE LOG Am Strat

SAMPLE DESCRP. Farm Cut

SAMPLE NO. 1394*

CORE ANALYSIS x

DSTs *Tucson 2079

REMARKS ~~Open hole 2898-2960' 3159-3225'~~ Authorized release of certain information 6-8-67 MCF 276/GAB 107

APP. TO PLUG _____

PLUGGING REP. _____

COMP. REPORT x

WATER WELL ACCEPTED BY _____

BOND CO. ~~Firemen's Ins. Co.~~ B/A BOND BOND NO. ~~188 98 10 528~~

BOND AMT. $ ~~25,000~~ CANCELLED 12/1/97 DATE ORGANIZATION REPORT 7-14-60

FILING RECEIPT ~~9483~~ LOC. PLAT x WELL BOOK x PLAT BOOK x

API NO. 02-001-20013 DATE ISSUED 3-27-67 DEDICATION SW/4

PERMIT NUMBER 389

CONFIDENTIAL

Release Date 7-19-67

(over)

ARIZ. ✓

14

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

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

DESCRIPTION OF WELL AND LEASE

Operator: Kerr-McGee Corporation	Address: 215 Petroleum Center Bldg.-Farmington, New Mex.
Federal, State or Indian Lease Number or name of lessor if fee lease: 14-20-0603-8823	Well Number: No. 7 / Field & Reservoir: Dineh-bi-Keyah (Hermosa)
Location: 590' FSL & 1870' FWL	County: Apache
Sec. TWP-Range or Block & Survey: Sec. 29, T36N, R30E	

Date spudded	Date total depth reached	Date completed, ready to produce	Elevation (DF, RKB, RT or Gr.) feet	Elevation of casing hd. flange feet
3-29-67	4-10-67	4-22-67	7498' GR	

Total depth	P.B.T.D.	Single, dual or triple completion?	If this is a dual or triple completion, furnish separate report for each completion.
3270'	3202'	Single	

Producing interval (s) for this completion	Rotary tools used (interval)	Cable tools used (interval)
3072' - 3112'	All	None

Was this well directionally drilled?	Was directional survey made?	Was copy of directional survey filed?	Date filed
NO	NO	NO	

Type of electrical or other logs run (check logs filed with the commission)	Date filed
Sonic-Gamma Ray - Induction-Electric	

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
	15"	10-3/4" O.D.	32.75	474'	500 sxs	None
	8-3/4"	7"	20#	3270'	150sxs Poz-mix.	None

TUBING RECORD

Size	Depth set	Packer set at
3-1/2" in.	2562 ft.	None ft.

LINER RECORD

Size	Top	Bottom	Sacks cement	Screen (ft.)
in.	None ft.	ft.		

PERFORATION RECORD

Number per ft.	Size & type	Depth Interval
5/ft.	0.46 jet	3072' - 3112'

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Am't. & kind of material used	Depth Interval
15bbls Acetic Acid	3072'-3112'
40bbls, 3% HFl acid/ 30,000 gals oil, 15,000# sd.	3072'-3112'
	3072'-3112'

INITIAL PRODUCTION

Date of first production	Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)
4-19-67	Pumping - Reda 3" down hole pump.

Date of test	Hrs. tested	Choke size	Oil prod. during test	Gas prod. during test	Water prod. during test	Oil gravity
4-27-67	24		2578 bbls.	276 MCF	4 bbls.	43.8° API (Corr)

Tubing pressure	Casing pressure	Cal'ted rate of Production per 24 hrs.	Oil	Gas	Water	Gas—oil ratio
			2578 bbls.	276 MCF	4 bbls.	107

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

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

5-11-67
Date

Signature

RECEIVED MAY 15 1967 STATE O & G CONS. COMM.

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

Permit No. 389

Form No. 4

(Complete Reverse Side)

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
COCONINO	760'	1452'	Sand, Shale, Chert Streaks.
HERMOSA-INSTRUSIVE	3061'	3133'	Igneous Rock Cored 3089'-3149' Rec. 46' minette 8' ls

* 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	Field	Reservoir
14-20-0603-8823	Dineh-BI-Keyah	Hermosa
Survey or Sec-Twp-Rge	**County**	**State**
Sec29,30,31,32 T-36N-R30E	Apache	AZ

Operator: Mountain States Petroleum Corp.

ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:

Street	City	State
P O Bx 1936	Roswell,	New Mexico 88202

Above named operator authorizes (name of transporter)

Giant Industries

Transporter's street address	City	State
P O Bx 12999	Scottsdale,	AZ

Field address: P O Bx 256 (Bloomfield Hwy) Farmington, N M 87499

Oil, condensate, gas well gas, casinghead gas

To transport 100% of the oil from said lease.

OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:

Name of gatherer	% transported	Product transported

Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change.

Change of Oper.

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

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

Date Aug. 11, 1995

Signature Ruby Wickersham

Date approved: AUG 16 1995

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By: Steven L. Rainy

Permit No. 389

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

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: 14-20-0603-8823

6. If Indian, Allottee or Tribe Name: Navajo

7. If Unit or CA, Agreement Designation: P/A 389

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.: Navajo #7

2. Name of Operator: Kerr-McGee Corporation

9. API Well No.: 02-001-20013

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description): 590' FSL & 1870' FWL, Sec. 29, T36N, R30E

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	
[X] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[ ] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other Shut-in	[ ] Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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

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

APPROVED
By SLR
Date 2/17/93

FEB 1993
ARIZONA GEOLOGICAL SURVEY

14. I hereby certify that the foregoing is true and correct
Signed [signature] Title Regulatory Specialist Date 2-15-93

(This space for Federal or State office use)
Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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

*See Instruction on Reverse Side

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

Federal, State or Indian Lease Number, or lessor's name if fee lease	Field	Reservoir
14-20-0603-8823 Navajo	Dineh-Bi-Keyah	Hermosa
Survey or Sec-Twp-Rge	**County**	**State**
Several - T 36 N, R 30 E	Apache	Arizona

Operator: Kerr-McGee Corporation

ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:

Street	City	State
P. O. Box 250	Amarillo	Texas, 79189

Above named operator authorizes (name of transporter): Gary-Williams Energy

Transporter's street address	City	State
370 17th St., Suite 5300	Denver	Colorado, 80202

Field address: P. O. Box 159, Bloomfield, NM 87413

To transport 100 % of the Oil (Oil, condensate, gas well gas, casinghead gas) 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 — H.H. Rice
Signature

Date approved: 8-21-92

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By: Steven L. Ruiz

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

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: 14-20-0603-8823
6. If Indian, Allottee or Tribe Name: Navajo
7. If Unit or CA, Agreement Designation:
8. Well Name and No.: Navajo #7 file 389
9. API Well No.: 02-001-20013
10. Field and Pool, or Exploratory Area: Dineh-Bi-Keyah
11. County or Parish, State: Apache Co., AZ

1. Type of Well: [X] 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): 590' FSL & 1870' FWL Sec. 29, T36N, R30E

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

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other Mechanical Integrity Test	[ ] 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

JUL 1992
ARIZONA GEOLOGICAL SURVEY

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

Signed D. Burns Title Regulatory Specialist Date 7-15-92

(This space for Federal or State office use)

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

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

*See Instruction on Reverse Side

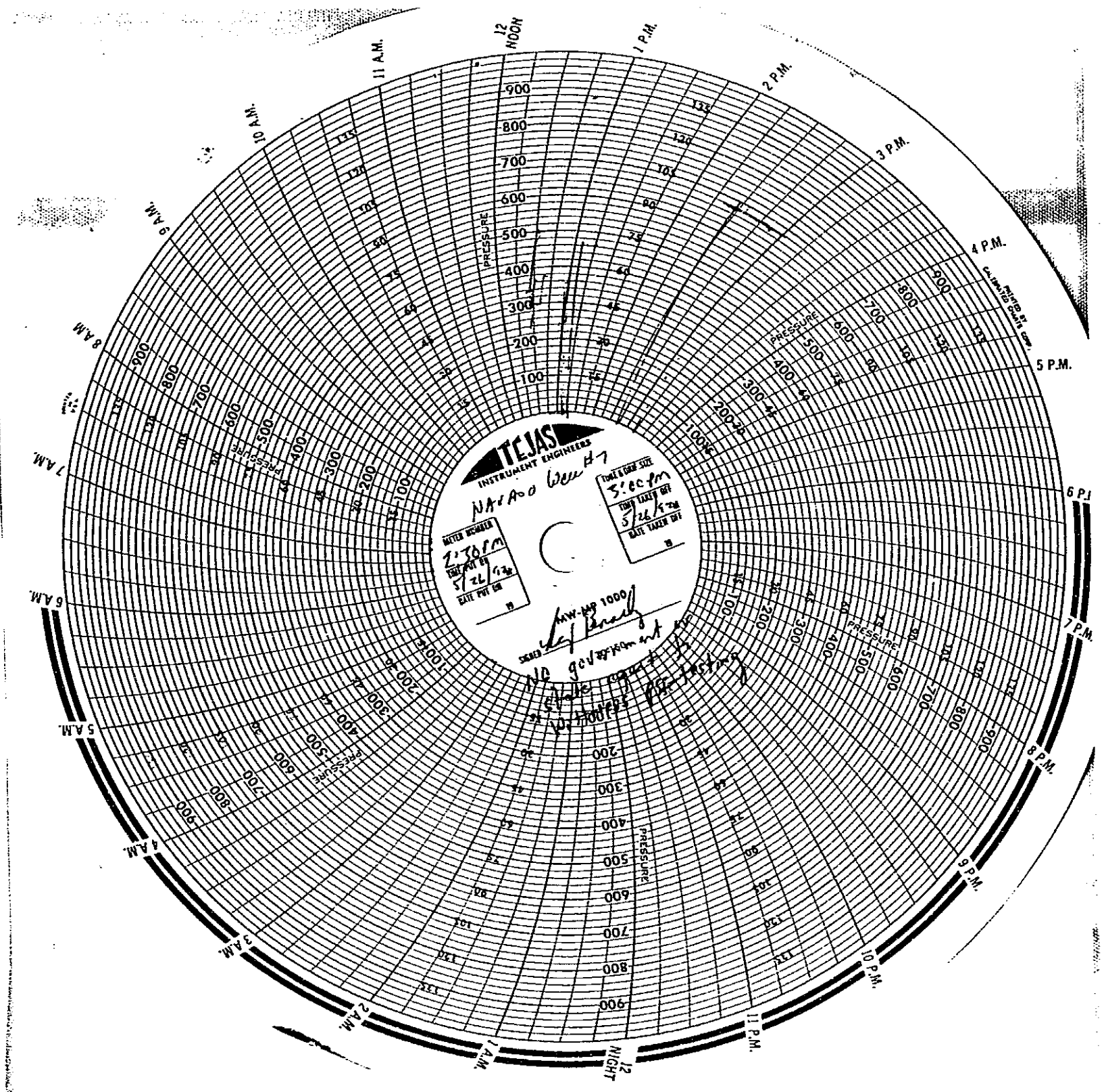
==========
NAVAJO 7
Dineh-Bi-Keyah Field

5/26/92 MI & RU Flint Well Service. Bled pressure off WH, unflanged WH, ND WH. NU BOP w/closing unit. PU & TIH w/7" Baker Model-EA retrievamatic compression pkr, 96 jts 2-7/8" 6.5# 8rd EUE J-55 tbg. Set pkr @ 3022' RKB, 50' above top perf. Perfs @ 3072'-3112' RKB. TD @ 3202'. MI two vacuum trucks & unloaded 140 BFW treated w/Tretolite XC-370 Bactericide chemical into steel tank. Ran 2" steel line from rig pump & tie 2" steel line to 2" 2000 WKM csg valve. Close in BOP. Pumped & loaded 7" csg w/76 bbls treated wtr, psi tested 7" csg to 600 psig. Pre-tested 7" csg for 30 mins & psi held. Release pressure off csg into steel tank. Unset 7" Baker Model-EA pkr, 96 jts 2-7/8" tbg, 7" pkr & layed down all equipment on float. ND BOP & NU WH. RD & release rig to next location.

Chart recording attached.

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

SUPERVISOR: Ray Benally


TEJAS
INSTRUMENT ENGINEERS
12 NOON
1 P.M.
2 P.M.
3 P.M.
4 P.M.
5 P.M.
6 P.M.
7 P.M.
8 P.M.
9 P.M.
10 P.M.
11 P.M.
12 NIGHT
1 A.M.
2 A.M.
3 A.M.
4 A.M.
5 A.M.
6 A.M.
7 A.M.
8 A.M.
9 A.M.
10 A.M.
11 A.M.
PRESSURE

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: 14-20-0603-8823
6. If Indian, Allottee or Tribe Name: Navajo
7. If Unit or CA, Agreement Designation:
8. Well Name and No.: Navajo #15 file 417
9. API Well No.: 02-001-20041
10. Field and Pool, or Exploratory Area: Dineh-Bi-Keyah
11. County or Parish, State: Apache Co., AZ

1. Type of Well: [X] 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): 860' FSL & 1980' FWL, Sec. 30, T36N, R30E

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

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other Mechanical Integrity Test	[ ] 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

JUL 1992
ARIZONA GEOLOGICAL SURVEY

14. I hereby certify that the foregoing is true and correct
Signed: D. Bruner Title: Regulatory Specialist Date: 7-15-92

(This space for Federal or State office use)
Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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

*See Instruction on Reverse Side

NAVAJO 15
Dineh-Bi-Keyah Field

MECHANICAL INTEGRITY TEST

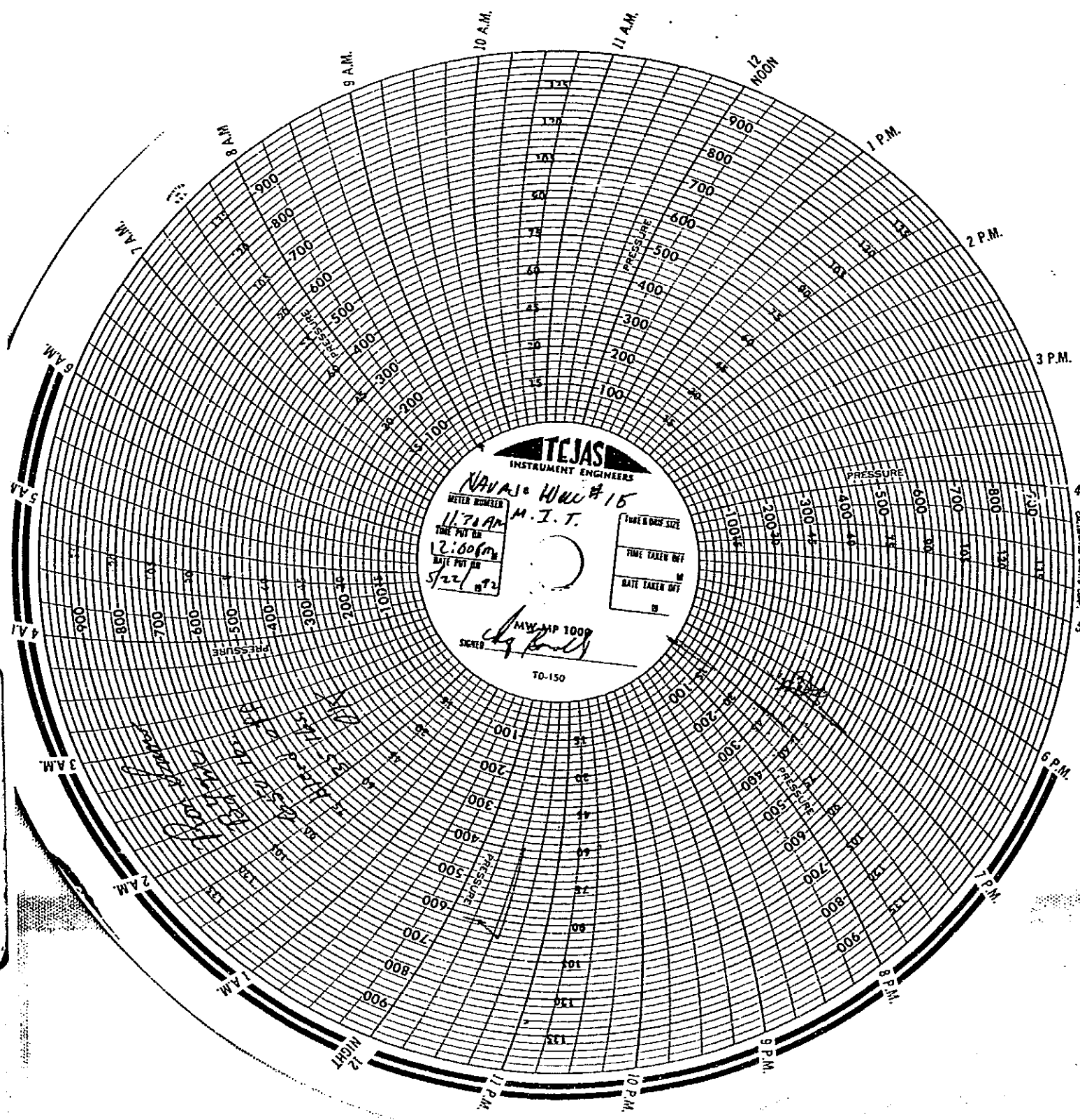
5/20/92 MI & RU Flint Well Service. ND WH & NU BOP w/closing unit. MI 130 bbl steel tank. MI 140 jts 2-7/8" 6.5# 8rd EUE J-55 rental string on location. Unloaded tbg & release truck. Heavy rain stopped job - SD for remainder of day. Perfs @ 3159'-3241' KB.

5/21/92 No work due to inclement weather.

5/22/92 Open well - no psi. PU 7" Baker Model-EA retrievamatic compression pkr & TIH w/99 jts 2-7/8" tbg. Set pkr @ 3100' RKB. Close in BOP & MI 160 BFW treated w/Tretolite XC-370 Bactericide chemical. Pumped 80 bbls treated wtr & loaded 7" csg & pressure tstd 7" csg to 600 psig. Pressure bled off 35# psig of csg in 30 mins. BLM representative witnessed pressure tstg & ok'd tstg. Bled off psi off csg & TOOH w/99 jts 2-7/8" tbg & 7" Model-EA Baker pkr & LD tbg & pkr on float. ND BOP & NU WH. RD rig & released rig to next location. MO equipment to next location.

NOTE: Ron Snow w/BLM witnessed psi tstg.
Notify Arlene Luther w/Navajo Tribal EPA; Steve Rauzi w/Arizona Oil & Gas Commission.

SUPERVISOR: Ray Benally


TEJAS
INSTRUMENT ENGINEERS
NAVAL HWY #15
M.I.T.
METER NUMBER
11:7 AM
TIME PUT ON
12:00 PM
DATE PUT ON
5/22/72
TIME TAKEN OFF
DATE TAKEN OFF
MW-MP 1000
T0-150
PRESSURE
12 NOON
1 P.M.
2 P.M.
3 P.M.
4 P.M.
5 P.M.
6 P.M.
7 P.M.
8 P.M.
9 P.M.
10 P.M.
11 P.M.
12 MIDNIGHT
1 A.M.
2 A.M.
3 A.M.
4 A.M.
5 A.M.
6 A.M.
7 A.M.
8 A.M.
9 A.M.
10 A.M.
11 A.M.

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: 14-20-0603-8823
6. If Indian, Allottee or Tribe Name: Navajo
7. If Unit or CA, Agreement Designation:
8. Well Name and No.: Navajo #7
9. API Well No.: 02-001-20013
10. Field and Pool, or Exploratory Area: Dineh-Bi-Keyah
11. County or Parish, State: Apache Co., AZ

1. Type of Well: [X] 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): 590' FSL & 1870' FWL, Sec. 29, T36N, R30E

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

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[ ] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other Mechanical integrity test	[ ] Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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

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

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

14. I hereby certify that the foregoing is true and correct
Signed D. Bunas G. Bunas Title Analyst II Date 2-28-92

(This space for Federal or State office use)
Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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

*See Instruction on Reverse Side

P/N 389

GAS-OIL RATIO TEST REPORTS

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

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO

7. UNIT AGREEMENT NAME:

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: KERR-McGEE CORPORATION

8. FARM OR LEASE NAME: NAVAJO

3. ADDRESS OF OPERATOR: P. O. BOX 250, AMARILLO, TEXAS 79105

9. WELL NO.: 7

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 590' FSL & 1870' FWL of Section 29

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

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 29-T36N-R30E

14. PERMIT NO.: State No. 389

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7498' GR

12. COUNTY OR PARISH: APACHE

13. STATE: ARIZONA

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]
(Other)			

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREATMENT	[X]	ALTERING CASING	[ ]
SHOOTING OR ACIDIZING	[X]	ABANDONMENT*	[ ]
(Other) Clean Out			[X]

(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.)*

Pulled rods, pump and tubing. Drilled out scale and paraffin. Ran GR Log and reperforated from 3072' to 3112' with 1 JPF. Acidized well with 1000 gals. Resi-Sol. Ran swab - no returns. Fractured well with 500 gals. scale preventative; 76,800 gals. crude oil; 8,250 lbs. 100 mesh sand; and 60,000 lbs. 10-20 sand. Average injection rate: 53 BPM. Max press.: 700 psi. I.S.D.P.: 450 psi. Cleaned out fill up to 3200'. Ran tubing, pump and rods and placed well on production.

Dates: 11/17/77 - 11/26/77

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

SIGNED Larry D. McRae TITLE District Manager, Engineering DATE Dec. 5, 1977

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

SUNDRY NOTICES AND REPORTS ON WELLS

RECEIVED
NOV 7 1977
O & G CONS. COMM.

1. Name of Operator Kerr-McGee Corporation

2. OIL WELL [X] GAS WELL [ ] OTHER [ ] (Specify)

3. Well Name Navajo #7

Location 590' FSL & 1870' FWL

Sec. 29 Twp. T36N Rge. R30E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease State No. 389

5. Field or Pool Name Dineh-Bi-Keyah

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF		PULL OR ALTER CASING		WATER SHUT-OFF		MONTHLY PROGRESS	
FRACTURE TREAT	X	DIRECTIONAL DRILL		FRACTURE TREATMENT		REPAIRING WELL	
SHOOT OR ACIDIZE	X	PERFORATE CASING	X	SHOOTING OR ACIDIZING		ALTERING CASING	
REPAIR WELL		CHANGE PLANS				ABANDONMENT	
(OTHER)				(OTHER)			

(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.)

Pull rods, pump, and tubing. Clean out to 3,150' RKB with bit. Reperforate from 3,072' to 3,112' with 1 HPF. Acidize perforations with 1,000 gals. of Resi-Sol. Fracture with 76,300 gals. of Lease Crude and 60,000 lbs. of 10-20 sand. Clean out with sand pump to 3,150' RKB. Run tubing, pump, and rods. Place well on production.

Estimated starting date: November 7, 1977

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

Signed Larry D. McRae Larry D. McRae Title District Mgr.-Engineering Date 10/28/77

Permit No. 389

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

ARIZONA SECONDARY RECOVERY PROGRAM PROPOSED

The Arizona Oil and Gas Conservation Commission will hold a hearing September 19 to consider an application by Kerr-McGee Corp for a secondary recovery program using injection of salt water into the Hermosa formation in Dineh Bi Keyah field, Apache County. The location for the project is in 29 through 33-36n-30e, 5 and 6-35n-30e, and 25 and 36-36n-29e. The field has produced more than 13.7 million bbls of oil, 1.8 billion cu ft of gas and 2.4 million bbls of water. The hearing begins at 10:00 am at the Oil and Gas Conservation Commission office, 8686 North Central Avenue, Suite 106, Phoenix.

RESERVOIR PRESSURE REPORT

Operator: Kerr-McGee Corporation

Address: 215 Petroleum Center Building, Farmington, New Mexico 87401

Field: Dinoh-bi-Keyah

County: Apache

Date: 8-9-68

Producing Formation: Hermosa

Oil Gradient:

Water Gradient:

Initial Completion*:

Special*:

General Survey*: X

Datum Plane: +4500'

Gas Gravity:

Well Name	Permit No.	Well No.	Oil (O) or Gas (G)	Date Tested	Shut-In Time	Shut-In Tubing Pressure	Bomb Test Data: Test Depth	Bomb Test Data: B.H. Temp.	Bomb Test Data: Observed Pressure	Sonic Instrument Test Data: Prod. Test (Bbls per Day): Oil	Prod. Test (Bbls per Day): Water	Liquid Level	Liquid Gradient	Wt. of Liquid Column	Wt. of Gas Column	Casing Pressure	Pressure At Datum *
Navajo	377	1	O	7-12-68	12		4703		120 psig								304 psia
Navajo	379	2	O	7-12-68	12		4573		200								236
Navajo	386	3X	O	7-12-68	12		4595		192								260
Navajo	389	7	O	7-12-68	12		4395		114								191
Navajo	396	9	O	7-12-68	12		4457		88								160
Navajo "B"	445	1X	O	7-12-68	12		4703		230								474

*Pressures taken from extrapolations of bottom hole pressure build-ups in accordance with method set forth by Mr. D. R. Horner (see attached data).

RECEIVED AUG 12 STATE O & G CONS. COMM.

* Designate type of report by "x".

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

August 9, 1968
Date

C D Williams
Signature

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Reservoir Pressure Report
File One Copy

Form No. 7

PRESSURE BUILD-UP TEST

NAVAJO NO. 7

DATA SHEET

Test Date: July 12, 1968
Producing Rate when shut-in: 557 BPD
Producing Pressure when shut-in: 54 psig @ +4395'
Producing Pressure corrected to 4500' Datum: 29 psia
Cumulative Production to test date: 461,385 bbls
Producing Time (T): 17,549 hours

Time	Shut-In Time Min.	Shut-In Time Hrs.	Recorded Press. (PSIG)	Corrected Press. @ +4500' (PSIA)	$\frac{\Delta T}{T + \Delta T}$
8:00 AM	0	0.0	54	29	0
8:30 "	30	0.5	74	49	.0000285
9:00 "	60	1.0	78	53	.0000570
9:30 "	90	1.5	82	57	.0000855
10:00 "	120	2.0	86	61	.0001140
10:30 "	150	2.5	88	63	.0001424
11:00 "	180	3.0	92	67	.0001709
11:30 "	210	3.5	95	70	.0001994
12:00 Noon	240	4.0	96	71	.0002279
1:00 PM	300	5.0	98	73	.0002848
2:00 "	360	6.0	102	77	.0003418
3:00 "	420	7.0	106	81	.0003987
4:00 "	480	8.0	108	83	.0004557
6:00 "	600	10.0	112	87	.0005695
8:00 "	720	12.0	114	89	.0006833

389

RECEIVED
AUG 12 1968
STATE O & G
CONS. COMM.

PRESSURE BUILD-UP TEST

NAVAJO NO. 7

CALCULATION SHEET

Test Date: 7/12/68

Dimensionless Pressure Drawdown, $p(t_{De})$

$$p(t_{De}) = \frac{2.303\ (Pi - P^*)}{M}$$

Where: $p(t_{De})$ = dimensionless pressure drawdown at exterior boundary of drainage system.

Pi = initial static pressure in drainage system or reservoir = 594 psia

P* = pressure at exterior boundary determined by extrapolating straight line slope of build-up plot to infinite shut-in time = 215 psia (plot attached)

M = straight line slope of build-up plot, pounds per square inch per cycle = 40 (plot attached)

$$p(t_{De}) = \frac{2.303\ (594 - 215)}{40} = 21.82$$

Dimensionless Producing Time, t_{De}

The dimensionless producing time is determined to be 5.8 from a plot of $p(t_{De})$ versus t_{De} (refer to Case No. 26 hearing exhibits for example of this plot).

Average Static Pressure, $\overline{P}$

$$\overline{P} = Pi - 1.737\ M\ t_{De}$$

Where $\overline{P}$ = average static pressure of the drainage system

$$\overline{P} = 594 - 1.737\ (40)\ (5.8) = \underline{191\ \text{psia}}$$

RECEIVED AUG 12 1968 STATE O & G CONS. COMM.

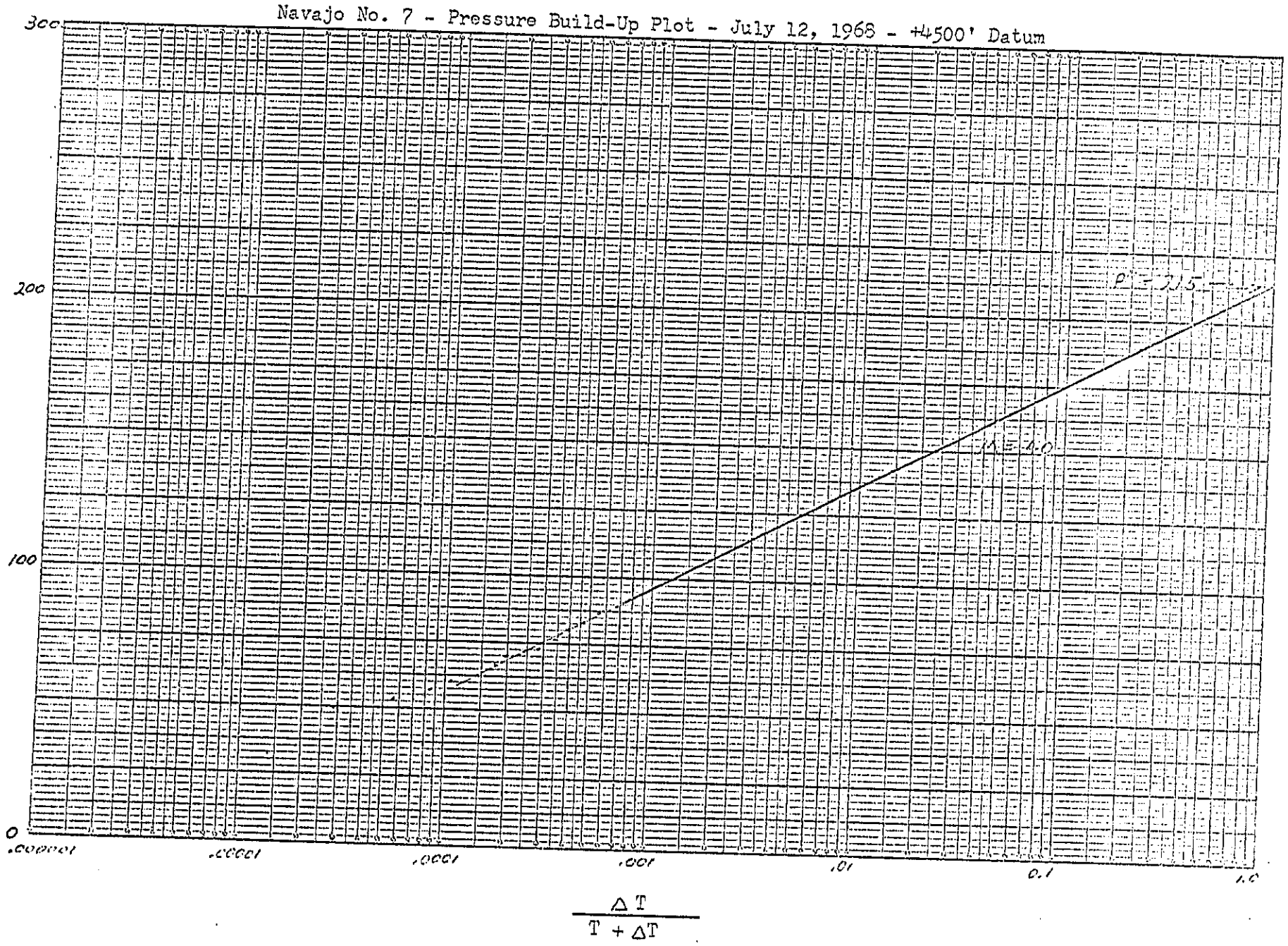
385

23

NO. 32,220. 20 DIVISIONS PER INCH (120 DIVISIONS) BY SIX CYCLES RATIO RULING.

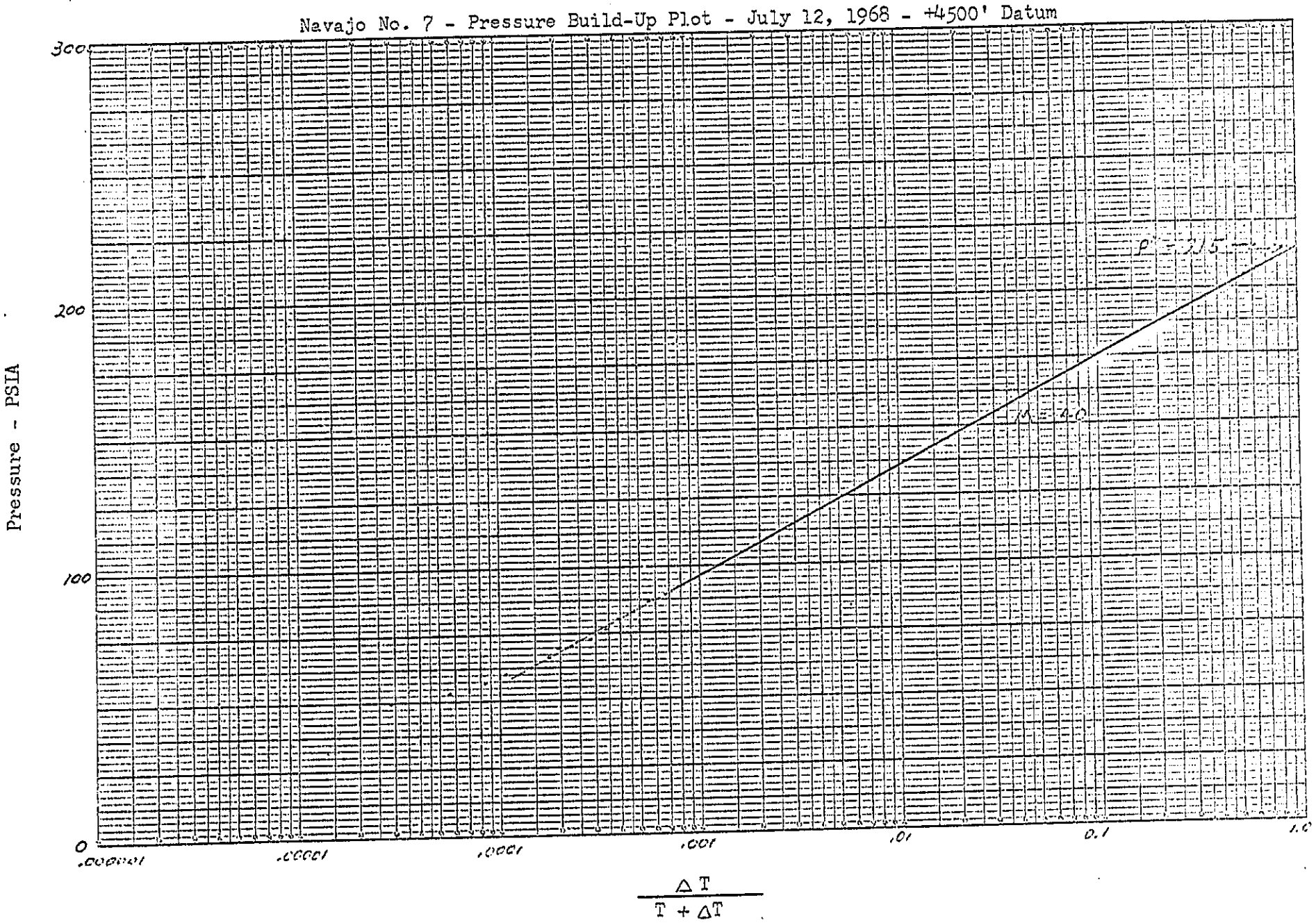
CODEX BOOK COMPANY, INC., NORWOOD, MASSACHUSETTS.
PRINTED IN U.S.A.

Navajo No. 7 - Pressure Build-Up Plot - July 12, 1968 - +4500' Datum



NO. 32,220. 20 DIVISIONS PER INCH (120 DIVISIONS) BY SIX CYCLES RATIO RULING.
CODEX BOOK COMPANY, INC., NORWOOD, MASSACHUSETTS.
PRINTED IN U.S.A.

Navajo No. 7 - Pressure Build-Up Plot - July 12, 1968 - +4500' Datum



RECEIVED
AUG 12 1968
STATE O & G
CONS. COMM.

ARIZONA

389

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

Page No. 1

CORE ANALYSIS RESULTS

Company KERR McGEE CORPORATION Formation PENNSYLVANIAN File CP-12-1516
Well NAVAJO NO. 7 Core Type DIAMOND Date Report 6-12-67
Field DINEH-BI-KEYAH Drilling Fluid WATER BASE MUD Analysts DANIEL
County APACHE State ARIZONA Elev. 7498'GL Location 590'FSL 1870'FWL SEC 29-36N-30E

Lithological Abbreviations

SAND-SD, SHALE-SH, LIME-LM, DOLOMITE-DOL, CHERT-CH, GYPSUM-GYP, ANHYDRITE-ANHY, CONGLOMERATE-CONG, FOSSILIFEROUS-FOSS, SANDY-SDY, SHALY-SHY, LIMY-LMY, FINE-FN, MEDIUM-MED, COARSE-CSE, CRYSTALLINE-XLN, GRAIN-GRN, GRANULAR-GRNL, BROWN-BRN, GRAY-GY, VUGGY-VGY, FRACTURED-FRAC, LAMINATION-LAM, STYLOLITIC-STY, SLIGHTLY-SL/, VERY-V/, WITH-W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS HORIZ. MAX.	PERM. 90°	BOYLE'S LAW Ø	RESIDUAL SATURATION PER CENT PORE OIL	TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
	REVISED DATA						
1	3089-90	0.2		10.2			Vert/frac
2	90-91	0.2		9.9			Vert/frac
3	91-92	0.4		9.0			Vert/frac
4	92-93	0.2		9.5			Vert/frac
5	93-94	0.4		10.8			Vert/frac
6	94-95	0.4		10.9			Vert/frac
7	95-96	0.7		12.5			Vert/frac
8	96-97	0.7		12.9			Diagonal/frac
9	97-98	0.9		12.8			Diagonal/frac
10	98-99	1.3		12.2			Diagonal/frac
11	99-00	2.6		13.5			Diagonal/frac
12	3100-01	2.6		13.1			Diagonal/frac
13	01-02	5.4		14.5			Diagonal/frac
14	02-03	1.5		13.0			V/sl vertical & diagonal/frac
15	03-04	2.6		12.5			V/sl vertical & diagonal/frac
16	04-05	6.9		13.3			V/sl vertical & diagonal/frac
17	05-06	1.8		12.6			V/sl vertical & diagonal/frac
18	06-07	0.7		10.7			V/sl vertical & diagonal/frac
19	07-08	0.2		13.4			V/sl vertical & diagonal/frac
20	08-09	0.4		10.2			V/sl vertical & diagonal/frac
21	09-10	0.2		9.8			V/sl vertical & diagonal/frac
22	10-11	0.2		9.6			V/sl vertical & diagonal/frac
23	11-12	0.2		9.4			V/sl vertical & diagonal/frac
24	12-13	0.4		9.7			V/sl vertical & diagonal/frac
25	13-14	0.2		9.3			V/sl vertical & diagonal/frac
26	14-15	0.4		9.9			V/sl vertical & horizontal/frac
27	15-16	0.4		9.5			V/sl vertical & horizontal/frac
28	16-17	0.2		10.1			V/sl vertical & horizontal/frac
29	17-18	0.2		10.0			V/sl vertical/frac
30	18-19	0.2		9.5			V/sl vertical/frac
31	19-20	<0.1		8.0			Vertical/frac (open)
32	3120-21	0.2		9.3			Vertical/frac (open)

RECEIVED DEC 21 1967 STATE O & G CONS. COMM.

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 profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

#389 28

389

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

File CP-12-1516 Page No. 2
Well Navago No. 7

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS	BOYLE'S LAW Ø	RESIDUAL SATURATION PER CENT PORE OIL	RESIDUAL SATURATION PER CENT PORE TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
33	3121-22	0.2	8.6			Vertical/frac (open)
34	22-23	0.2	9.3			Vertical/frac (open)
35	23-24	0.2	8.7			Vertical/frac (open)
36	24-25	<0.1	9.3			Vertical/frac (open)
37	25-26	0.2	8.8			V/sl horizontal & vertical/frac (open)
38	26-27	0.2	9.0			V/sl horizontal & vertical/frac (open)
39	27-28	0.2	9.7			V/sl horizontal & vertical/frac (open)
40	28-29	<0.1	9.2			V/sl horizontal & vertical/frac (open)
41	29-30	0.2	9.6			V/sl horizontal & vertical/frac (open)
42	30-31	0.7	9.9			V/sl horizontal/frac
43	31-32	<0.1	10.2			V/sl horizontal/frac
44	32-33	<0.1	10.0			V/sl horizontal/frac, carbonaceous
45	33-34	<0.1	10.7			V/sl horizontal/frac, carbonaceous
46	3134-35	<0.1	10.6			V/sl horizontal frac, carbonaceous, (Base of intrusive)
	3135-43	No analysis				Altered ls, shy ls, lmy sh, carbonaceous sh
	3143-49	Lost Core				
	3089-3135					Minette, Gy-Blk, Fn-Med Xln, Vert/Frac, Vgy, Secondary crystalization in fractures and vugs throughout. Fractures closed for most part due to this condition.

RECEIVED DEC 21 1967 STATE O & G CONS. COMM.

389

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 profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

29

KERR-McGEE CORPORATION
KERR-McGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

July 27, 1967

Mr. John Bannister
State of Arizona
Oil & Gas Conservation Commission
Room 202 - 1624 W. Adams
Phoenix, Arizona 85007

Mr. Henry F. Pohlmann
Minerals Supervisor
The Navajo Tribe
412 Petroleum Plaza Building
3535 E. 30th Street
Farmington, New Mexico 87401

Mr. John P. Anderson
United States Geological Survey
Oil & Gas Division
P. O. Drawer 1857
Roswell, New Mexico 88201

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

IGNEOUS SILL RESERVOIR
DINEH BI KEYAH FIELD

Please find enclosed additional pressure information which we have acquired during the initial productive life of the subject reservoir.

Attachment No. 1 contains all of the shut-in pressure data which we have on wells which are presently producing. This data includes both original and subsequent shut-in pressures taken after each well's completion. Subsurface pressure bombs have been run on six of the nine wells which are presently producing. A data sheet and pressure plot was made for each bomb run by the technician in charge of the survey. This correspondence on four of the six wells (Nos. 2, 4, 7, 9, 14 and 15) on which this survey was conducted is also attached. The data sheets have not been received from the field on Nos. 4 and 15; however, the pressures recorded in these wells have been presented.

Attachment No. 2 contains shut-in pressure buildup data on five producing wells (Nos. 1, 2, 3X, 7 and 9). Please note the rapid pressure buildup characteristics of each well. In an effort to gain as much factual data and knowledge from this reservoir as possible; we are considering gathering additional pressure data.

Utilizing production history and pressure data the indicated producing mechanism at this time is probably solution gas drive.

RECEIVED
JUL 31 1967
STATE O & G
CONS. COMM.

#389
31

We hope this data will be beneficial to your consideration of this reservoir.

KERR-McGEE CORPORATION

John I. Fisher

John I. Fisher
Regional Production Manager

JIF/bes
attachments

cc: C. D. Williams

RECEIVED
JUL 31 1967
STATE O & G
CONS. COMM.

389

32

Attachment 1
Shut-in Pressure History Info.

Navajo No. 7 - Perfs. 3072-3112 (+4436 - +4396); Sensor: 2624 (+4884)
Original (Sub-surface Bomb):
4-18-67 612 psig @ 3092 (+4416 - cent. of perfs.)
583 psig @ +4500 datum

Additional:

Date	SI Pressure (Psig) Sensor	Perforations	+4500 Datum
7-10-67	316	480	451

Navajo No. 9 - Perfs. 3420-60 (+4474 - +4434); Sensor: 2947 (+4947)
Original (Sub-surface Bomb):
5-4-67 599 psig @ 3430 - bomb depth
602 psig @ 3440 (+4454 - cent. of perfs.)
586 psig @ +4500 datum

Additional:

Date	SI Pressure (Psig) Sensor	Perforations	+4500 Datum
7-9-67	272	428	412

Navajo No. 14 - Open hole 3829-3920 (+4739 - +4648); No Sensor
Original (Sub-surface Bomb):
7-8-67 477 psig @ 3875 (+4680 - mid-way through O.H.)
540 psig @ +4500 datum

Navajo No. 15 - Open Hole 3159-3225 (+4538 - +4472); Beam Pump - No Sensor
Original (Sub-surface Bomb):
7-14-67 462 psig @ 3191 (+4493 - mid-way through O.H.)
460 @ +4500 datum

389

34

RECEIVED JUL 31 1986 STATE O & G CONS. COMM.

Navajo No. 7 - Test Period: 7-6 to 10-67

Original SIP on 4-22-67 was 448 psig at 2624 (+4884 - pump sensor) or 583 psig at +4500 datum; Perforations: 3072-3112 (+4436 - +4396); Pressure Sensor at 2624 (+4884). Well SI 7-6-67 after pumping at 1165 BOPD rate with 200 psig sensor pressure (335 psig at +4500 datum). Pressure build-up as follows:

Time After SI	Pressure at +4500 Datum	% Change From Last Pressure
0	335 psig	-
24 hours	429 psig	21.9%
48 hours	439 psig	2.3%
72 hours	445 psig	1.3%
96 hours	451 psig	1.3%

Note: 95.1% of the well's 96 hour SIP and 96.4% of the 72 hour SIP was achieved after 24 hours.

Navajo No. 9 - Test Period: 7-6 to 9-67

Original SIP on 5-4-67 was 430 psig at 2947 (+4947 - pump sensor) or 586 psig at +4500 datum; Perforations: 3420-60 (+4474 - +4434); Pressure Sensor at 2947 (+4947). Well SI 7-6-67 after pumping at 2000 BOPD rate with 246 psig sensor pressure (402 psig at +4500 datum). Pressure build-up as follows:

Time After SI	Pressure at +4500 Datum	% Change From Last Pressure
0	402 psig	-
24 hours	418 psig	3.8%
48 hours	426 psig	1.9%
72 hours	428 psig	0.5%

Note: 97.7% of the wells 72 hour SIP was achieved after 24 hours. Also note only 6% (26 psi) draw-down while producing at 2000 BOPD rate.

RECEIVED
JUL 31 1967
STATE O & G
CONS. COMM.

387
36

OPERATOR 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	Field	Reservoir
14-20-0603-8823	Dineh-bi-Keyah	Lower Hermosa
Survey or Sec-Twp-Rge	**County**	**State**
Sec. 29-32-T36N-R30E	Apache	Arizona

Operator
Kerr-McGee Corporation

ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:

Street	City	State
215 Petroleum Center Bldg.	Farmington	New Mexico 87401

Above named operator authorizes (name of transporter)
Kerr-McGee Pipeline Corporation Attention: Mr. A. R. Gockel

Transporter's street address	City	State
Kerr-McGee Building	Oklahoma City	Oklahoma 73102

Field address
P. O. Box 989 - Farmington, New Mexico 87401

Oil, condensate, gas well gas, casinghead gas

To transport 100 % of the oil from said lease.

OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:

Name of gatherer	% transported	Product transported

Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change.

Change of Gatherer & Transporter Effective: 7/14/67

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

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Production Superintendent 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 7/19/67

Signature [illegible]

Date approved: 7-21-67

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By: John Bannister

Permit No.

RECEIVED JUL 21 1967 STATE O & G CONS. COMM.

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

A3 38

RESERVOIR PRESSURE REPORT

Operator: Kerr-McGee Corporation
Address: 215 Petroleum Center Bldg. - Farmington, New Mexico

Field: Dineh-bi-Keyah
County: Apache
Date: 7-13-67

Producing Formation: Hermosa
Oil Gradient: o.35#/ft
Water Gradient: - - -
Initial Completion*: X
Special*:
General Survey*:
Datum Plane: 3092 RKB
Gas Gravity:

Well Name	Permit No.	Well No.	Oil (O) or Gas (G)	Date Tested	Shut-In Time	Shut-In Tubing Pressure	Bomb Test Data: Test Depth	Bomb Test Data: B.H. Temp.	Bomb Test Data: Observed Pressure	Sonic Instrument Test Data: Prod. Test (Bbls per Day): Oil	Prod. Test (Bbls per Day): Water	Liquid Level	Liquid Gradient	Wt. of Liquid Column	Wt. of Gas Column	Casing Pressure	Pressure At Datum
NAVAJO	389	7	O	4-18-67	14 hr	37	+4519	91	577								612

* Designate type of report by "x".

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Prod. Engr. of the Kerr-McGee Corp. (company), and that I am authorized by said company to make this report; and 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.

7-13-67
Date

Larry Roth
Signature

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Reservoir Pressure Report
File One Copy
Form No. 7

RECEIVED JUL 18 1967 STATE O & G CONS. COMM.

583

1-Ariz., 1-Nav.Tribe, 1-JIF, 1-WRF, 1-RF

KERR-McGEE CORPORATION
KERR-McGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

215 Petroleum Center Building
Farmington, New Mexico
June 8, 1967

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

Attn: Mr. John Bannister, Exec. Secretary

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

Dear John:

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

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

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

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

RECEIVED
JUN 12 1967
STATE O & G
CONS. COMM.

389

KERR-McGEE CORPORATION
KERR-McGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

Mr. John Bannister
June 8, 1967
Page 2

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

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

Sincerely yours,
KERR-MCGEE CORPORATION

C. D. Williams
Prod. Supt.

cc: J.I.Fisher
File
SF

385

ARIZ

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [XX] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] 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)*
At surface: 590' FSL & 1870' FWL of Sec. 29, T36N, R30E.
At top prod. interval reported below: Same.
At total depth: Same.

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-0603-8823
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: NAVAJO
9. WELL NO.: NO. 7
10. FIELD AND POOL, OR WILDCAT: Dineh-bi-Keyah
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 29, T36N-R30E
12. COUNTY OR PARISH: Apache
13. STATE: Arizona
14. PERMIT NO.:
DATE ISSUED: 3-27-67

15. DATE SPUDDED: 3-29-67
16. DATE T.D. REACHED: 4-10-67
17. DATE COMPL. (Ready to prod.): 4-22-67
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*: 7498' GR
19. ELEV. CASINGHEAD:
20. TOTAL DEPTH, MD & TVD: 3270'
21. PLUG, BACK T.D., MD & TVD: 3202' MD
22. IF MULTIPLE COMPL., HOW MANY*:
23. INTERVALS DRILLED BY: →
ROTARY TOOLS: All
CABLE TOOLS: None
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 3072'-3112' (MD) Hermosa
25. WAS DIRECTIONAL SURVEY MADE: No.
26. TYPE ELECTRIC AND OTHER LOGS RUN: Sonic-Gamma Ray, Induction-Electric
27. WAS WELL CORED: Yes.

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10-3/4" O.D.	32.75	474'	15"	500 sxs	None
7"	20#	3270'	8-3/4"	150 sxs Poxmix 50sxs cmt.	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
None				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
3-1/2"	2562'	None

31. PERFORATION RECORD (Interval, size and number)
3072'-3112'
Five 0.46 jets/ft.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3072'-3112'	15 bbls Acetic Acid.
3072'-3112'	40 bbls 3% HFl Acid.
3072'-3112'	30,000 gals oil & 15,000# sd.

33.* PRODUCTION

DATE FIRST PRODUCTION: 4-19-67
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump): Pumping - Reda 3" down hole pump.
WELL STATUS (Producing or shut-in): Producing.

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4-27-67	24		→	2578	276	4	107

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
		→	2578	276	4	43.8

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): Vented.
TEST WITNESSED BY: Gary Roth
35. LIST OF ATTACHMENTS:
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.
SIGNED: [signature] TITLE: Production Supt. DATE: 5-11-67

*(See Instructions and Spaces for Additional Data on Reverse Side)

14 385

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "*Sacks Cement*": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
COCONINO	760'	1452'	Sand, Shale, Chert Streaks.
HERMOSA INSTRUSIVE	3061'	3133'	Igneous Rock Cored 3089'-3149'.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH

RECEIVED MAY 15 1967 STATE O & G CONS. COMM.

U.S. GOVERNMENT PRINTING OFFICE : 1963—O-683636

871-233

1 ARIZ.

POTENTIAL TEST AND REQUEST FOR ALLOWABLE — GAS WELLS

DESIGNATE TYPE OF COMPLETION:

New Well [XX] Work-over [ ] Deepen [ ] Plug Back [ ] Same Reservoir [ ] Different Reservoir [ ]

Other Reason For Filing:

Operator: Kerr-McGee Corporation

Address: 215 Petroleum Center Building - Farmington, New Mexico

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or Lessor's Name if Fee Lease	Well Name	County
14-20-0603-8823 Navajo	Navajo Well No. 7	Apache

Footage Location: 590' FSL & 1870' FWL

Sec. Twp. Rge.: Sec. 29 - T36N - R30E

Date spudded	Date completed, ready to produce	Total depth	P.B.T.D.
3-29-67	4-22-67	3270'	3202'

Field and reservoir	Top of pay	Producing interval
Dineh-bi-Keyah	3061'	3072' - 3112'

TEST DATA

Date of first production	Date of test	Length of test	Producing method (flow pump, gas lift)	Amount of load oil injected if any.
4-19-67	4-27-67	24 hrs.	Pumping	None

Number of barrels of oil produced from completion or recompletion date to test date	If well is produced by pumping, give pump size, length of stroke and strokes per minute.
8910 bbls.	Reda 3".

Tubing pressure	Casing pressure	Choke size
35	0	None

*Actual production during test:	Oil (bbls)	Water (bbls)	Gas (MCF)
2578 bbls	2578	4	276

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

Gas-oil ratio	Oil gravity	Name of transporter of oil
107 MCF/bbl.	43.8 * A.P.I. corrected	Permian Corp.

Number of acres attributed to this well	Number of producing wells in this reservoir on this lease, including this well	Single, dual or triple completion?	Daily allowable requested (bbls)
80	4	Single	2578

Plat showing acreage attached—plat should show leases, offset wells, distance from this well to the nearest well on the same lease completed in or drilling to the same reservoir, and the boundaries of drilling and producing, or proration, units attributed to this well and other wells on the same lease completed in or drilling to the same reservoir, the number of acres in each unit and the number of acres in the lease.

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

5-11-67
Date

Signature

Witnessed by: Helene Scott
Organization

Ken-McGee Corp.
Signature

5-11-67
Date

Permit No. 389

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Potential Test & Request for Allowable—Gas Wells

File One Copy

Form No. 6

RECEIVED MAY 15 1967 STATE O & G CONS. COMM.

60

5-2-67
Bud Williams - Kerr-McGee Div. Prod. Super.
2nd Floor (Rm 215)
Petroleum Center Bldg (old Pan-Am office
ph (505) 327-9637 at Apache & Air Port Dr.?)

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

B-2 T.D 4565'
5 1/2" csg. set to T.D.
Appx. tops Coconino 1622'
Hermosa 3412'
Miss. 4056'
No sill found in B-2 - was present in B-1
will move rig back to B-1

E-1 Spud 10:00 AM 4-29-67
9 5/8" sur. csg set to 253'
Rlg @ 316'

#7 Producing to No. 1 location

#9 TD 3720' (Drillers) 7" Casing to 3712' PBTD 3649'
Perforated 3420'-3460' 1 shot per ft
acidized 1680 gals 3% hydrofloric acid / ball sealers
fracked (5-1-67) 30,000 gal oil, 15000 lbs sand
1300# pressure - re-perforated to 4 shots per ft
swab 46 Bls in 1 hr. Swabbing 5-2-67

389
53

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Farmington, New Mex.
LEASE NUMBER 14-20-603-[illegible]
UNIT NAVAJO LEASE

LESSEE'S MONTHLY REPORT OF OPERATIONS

State ARIZONA *County* APACHE *Field* [illegible]

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 [illegible] CORPORATION

Signed [illegible]

Phone 327-9637

Agent's title PRODUCTION SUPT.

Sec. and ¼ of ¼	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)
SE/SW/32	36N	30E	1	Production data is to be submitted by Sunray, Texas office for April.						
SE/SW/32	36N	30E	2	Will be submitted by this office in future.						
SE/SW/32	36N	30E	3							
SE/SW/32	36N	30E	7	Drilling 8-3/4" hole to 3270'. Set 7" 20#/ft. J-55 ST&C casing at 3270' and cemented with 100 sacks 50/50 Pozmix w/4% gel and 50 sacks neat cement. Perf. 3072'-3112'. Acidized with 40 bbls. 3% HCl acid, and frac w/30,000 gals. lease oil and 15,000# sand. Ran Soda Pump. On 4-27-67 well tested 576 BO/24 hrs, 43.8° (degrees) API, 107 BOW, 0.2% BS&W.						
SE/SE/30	36N	30E	9	Spudded well 4-13-67. Drilling 15" hole to 420' and set 9-5/8", 32.30# H-40 ST&C casing at 408' w/525 sacks cement. Drilling 8-3/4" hole to 3720'. Set 7" 23# J-55 ST&C casing at 3712', with 100 sacks 50-50 Pozmix with 4% gel and 50 sacks neat cement. Perf casing 3420' - 3460'.						

RECEIVED
MAY 10 1967
STATE O & G
CONS. COMM.

389

NOTE.—There were ..... runs or sales of oil; ..... M cu. ft. of gas sold;
..... 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 9-329
(January, 1950)

892-556 U.S. GOVERNMENT PRINTING OFFICE: 1954—O-729-784

3

WELL SITE CHECK

By J B
Date 4-24-67

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 Date _____

_____ Formation _____

Crews _____ Lithology _____

REMARKS, PHOTO, MAP

2 2000 Bl tanks on location.
4" production being wrapped & laid to Nav. 2 location
Well not now (at time of inspection) being laid.
No. Permit No. on sign.

will probably go tight
Truckers afraid of road (bad on brakes)
Oil sample taken from seperator

WELL NAME 55 Kerr-McGee #7 Navajo
SE SW 29-36N-30E
1870 FWL - 590 FSL

Permit No. 389
Confidential: yes No

CONFIDENTIAL

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Navajo

9. WELL NO.: 7

10. FIELD AND POOL, OR WILDCAT: Dinah bi Keyah

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 29, T36N, R30E

12. COUNTY OR PARISH: Apache

13. STATE: Arizona

1. OIL WELL [X] 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: 590' FSL and 1870' FWL of Section29, T36N, R30E, Apache County, Arizona.

14. PERMIT NO.: State Number 389

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7,498' GR

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]
(Other)			

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREATMENT	[X]	ALTERING CASING	[X]
SHOOTING OR ACIDIZING	[X]	ABANDONMENT*	[ ]
(Other)			

(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.)*

Set production casing at 3270' RKB and cemented. Pumped top plug down with 900 gallons 10% acetic acid followed with fresh water containing 1% KCL. After testing production casing perforated from 3072' to 3112' with one jet per foot on 4-14-67. Displaced 15 BBLs acetic acid into formation. Swabbed. After swabbing acidized through tubing with 40 BBLs-3% Hydrofluoric Acid and 40- 7/8" ball sealers. Swabbed. After swabbing fracture treated well on 4-16-67 with 30,000 gallons lease oil and 15,000# 10-20 sand. Pad and frac had 1/20# per gallon of Mark 2 Adomite. Reperforated from 3072' to 3112' with 4 jets per foot. Perforation size 0.46".

PLEASE KEEP THIS INFORMATION CONFIDENTIAL

RECEIVED APR 21 1967 STATE O & G CONS. COMM.

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

SIGNED E. C. Beith, Jr. TITLE Engineer DATE 4-20-67

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

56 # 389

EFTELLER, INC.
reservoir engineering
MIDLAND, TEXAS

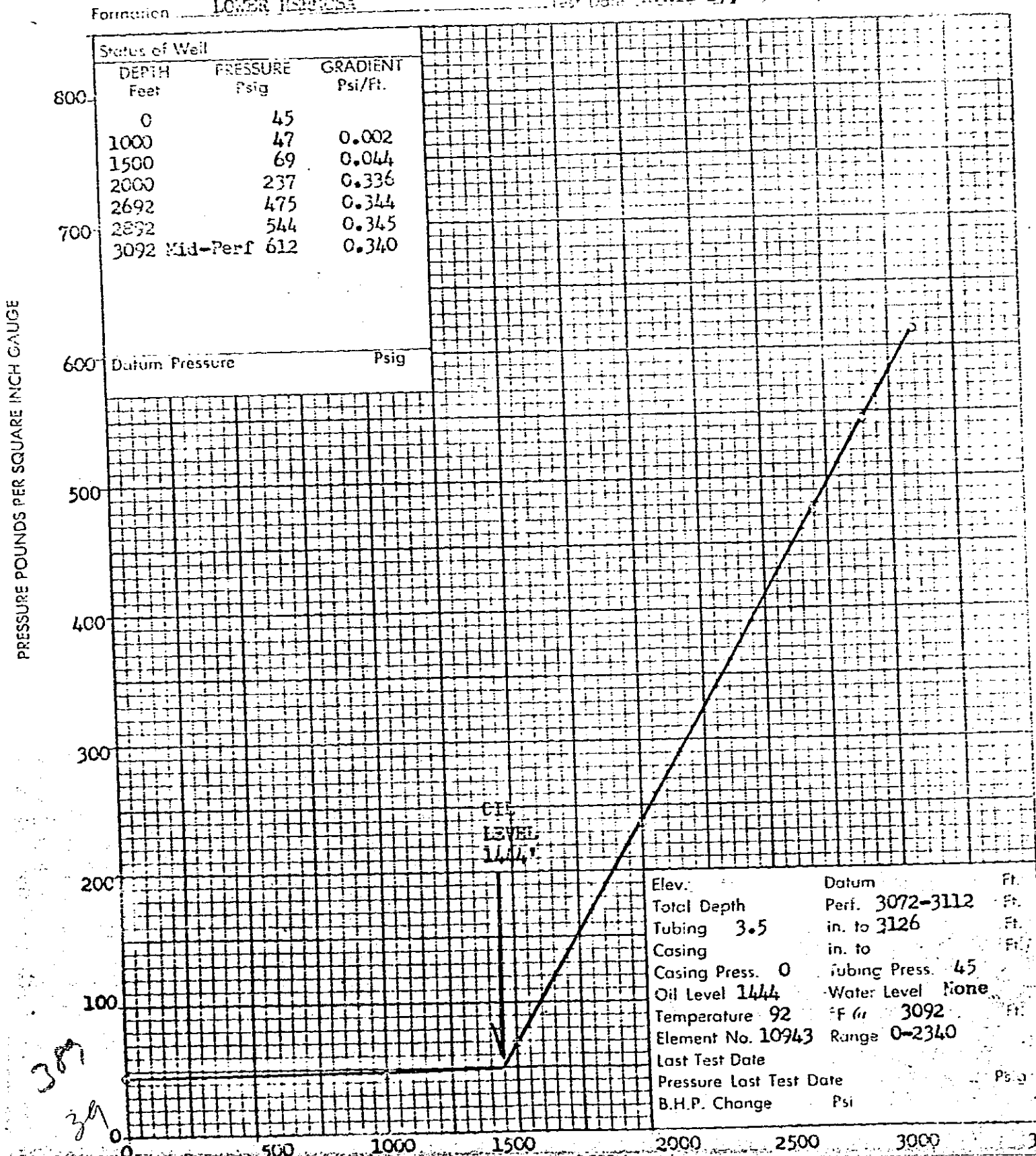
Page 2 of 2
File 2-2170-B

Company KERR-McGEE CORPORATION Lease NAVAJO Well No. 7
Field LUKA County APACHE State ARIZONA
Formation LOWER ESPINOSA Test Date APRIL 19, 1967

Status of Well

DEPTH Feet	PRESSURE Psig	GRADIENT Psi/Ft.
0	45	
1000	47	0.002
1500	69	0.044
2000	237	0.336
2692	475	0.344
2892	544	0.345
3092 Mid-Perf	612	0.340

Datum Pressure Psig



Elev. Datum Ft.
Total Depth Perf. 3072-3112 Ft.
Tubing 3.5 in. to 3126 Ft.
Casing in. to Ft.
Casing Press. 0 Tubing Press. 45
Oil Level 1444 Water Level None
Temperature 92 °F @ 3092 Ft.
Element No. 10943 Range 0-2340
Last Test Date
Pressure Last Test Date Psig
B.H.P. Change Psi

389
389

EFTELLER, INC.
reveal engineering data
MIDLAND, TEXAS

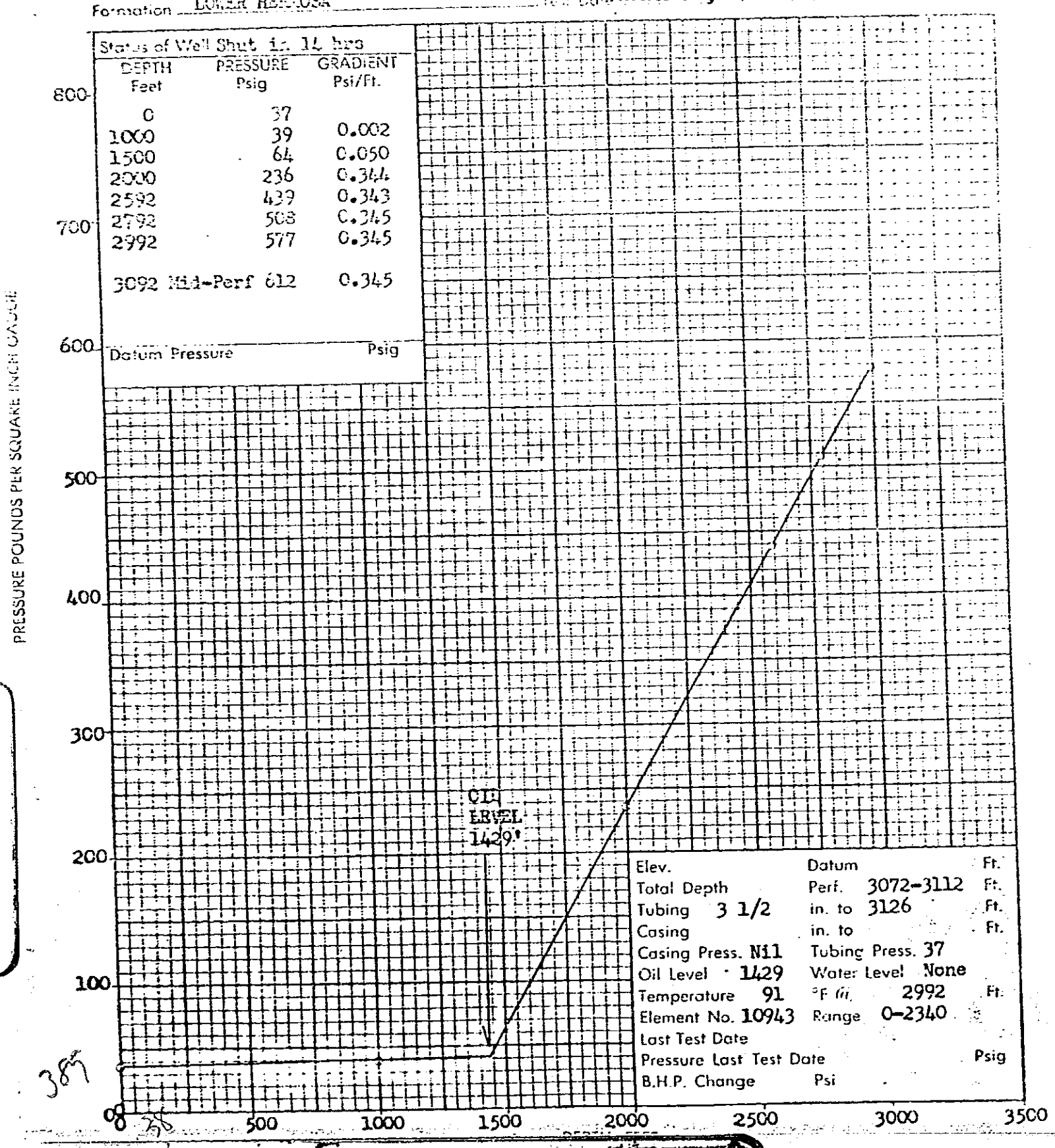
Page 1
File 2-2173-P

Company KERR-McGEE CORPORATION Lease NAVAJO Well No. 7
Field LUKA County APACHE State ARIZONA
Formation LOWER HERMOSA Test Date APRIL 18, 1967

Status of Well Shut in 14 hrs

DEPTH Feet	PRESSURE Psig	GRADIENT Psi/Ft.
0	37	
1000	39	0.002
1500	64	0.050
2000	236	0.344
2592	439	0.343
2792	508	0.345
2992	577	0.345
3092 Mid-Perf	612	0.345

Datum Pressure Psig



Elev.		Datum	Ft.
Total Depth		Perf. 3072-3112	Ft.
Tubing	3 1/2	in. to 3126	Ft.
Casing		in. to	Ft.
Casing Press.	Nil	Tubing Press.	37
Oil Level	1429	Water Level	None
Temperature	91 °F @	2992	Ft.
Element No.	10943	Range	0-2340
Last Test Date			
Pressure Last Test Date			Psig
B.H.P. Change	Psi		

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR
Kerr-McGee Corporation

3. ADDRESS OF OPERATOR
P.O. Box 2, Smarty, Texas 79086

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface 590' FSL and 1870' FWL of Section 29, T3N, R30E, Apache County, Arizona

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Navajo

9. WELL NO.
7

10. FIELD AND POOL, OR WILDCAT
Dineh bi Keyah

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 29, T3N, R30E

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

14. PERMIT NO.
State Number 309

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
7,498' GR

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]
(Other)			

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
(Other) Test of production casing			[X]

(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 473.73' KKB, drilled 8 3/4" hole to 3,270' KKB. Set 7" 20#/ft, J-55, STAC casing at 3270' KKB. Cemented with 100 sacks 50-50 posmix with 4% gel and 1/4# flocele/sack followed by 50 sacks cement. Pumped plug down with 900 gallons 10% acetic acid followed with fresh water containing 1% KCl. Plug down at 1:15 AM 4-11-67. Waited on cement 12 hrs. Tested casing to 1200# for 30 minutes. Held OK.

RECEIVED
APR 18 1967
STATE O. & G. CONS. COMM.

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

SIGNED E. C. Beck Jr. TITLE Engineer DATE 4-17-67

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

387

57

From the Desk of

JOHN BANNISTER

Tele - Barton 4-11-67

#7

Set 7" pipe at

3270' (TD - driller)

3263' (Slumberger)

Kerr-McGee

Otto Burton phone 4-17-67

B-2 Spudded 4-6-67 11 AM
13 3/4" hole to 918'
set 9 5/8" (32 lb) to 910' w 800 Sx
circulated out 25 Bls
~~TD~~ Drilling (4-17-67) 2881' 8 3/4" hole

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

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

2 Rigs running
Tank farm to be in NE/4 29-36N-30E
Surveying for pipe line

Prod. averages - 6600 - 6700.
#1 600 - 700
2 2800 - 2900
3X [illegible] (1 day make 3200)

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'lt lower below 1,1700 feet.

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.

Re: Kerr-McGee #B1 Navajo

Perforated 3710-3746, 1 shot per foot. Acetic acid and 3% solution hydrofleuric 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).

389

59

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% hydrofleuric acid. Glush of oil came back; but settled to 1-2 barrels per hour. Then fract wit. Put 5500 gals of in in front of the fx fract--15000 lbs sand and 30000 gals. load oil; pressure 1700 lbs. Swabbed 4-2-67, 1700 ~~bbs~~.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 ~~10745.~~ 6675

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

389

	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.

60

Form approved.
Budget Bureau No. 42-R356.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Farmington, N.M.
LEASE NUMBER 14-20-0603-8823
UNIT Navajo No. 7

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 31, 1967,

Agent's address P.O. Box K, Sunray, Texas 79086 *Company* Kerr-McGee Corporation

Signed E. C. Reid, Jr.

Phone AC 806 948-4118 *Agent's title* Engineer

Sec. and ¼ of ¼	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)
SE SW Sec 29	36N	30E	7	0	0		0	0	0	

Spudded at 8:30 PM, 3-29-67. Drilled 15" hole to 484' and set 10 3/4" OD, 32.75#/ft., H-40, ST&C casing at 473.73' RKB. Cemented with 500 sks common cement plus 2% Calcium Chlroride and 1/4# flocele per sack. Circulated out 18 barrels. Bumped plug at 5:30 PM, 3-30-67. R leased pressure and waited on cement 12 hours. Tested casing to 1000# for 30 minutes. Held OK. Drilling 8 3/4" hole.

3M

RECEIVED APR 10 1967 STATE O & G CONS. COMM.

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 9-329
(January 1950)

892-556 U.S. GOVERNMENT PRINTING OFFICE: 1964—O-729-784

61

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL [X] 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
590' FSL and 1870' FWL of Section 29, T36N, R30E, Apache County, Arizona

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Navajo

9. WELL NO.
7

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 29-T36N-R30E

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

14. PERMIT NO.
State Number 389

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
7,498' GR

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[X]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[X]
(Other)			

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
(Other)			

(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.)*

Verbal approval for the following change in plans of the proposed casing program for the surface casing on the Navajo No. 7 was given by Mr. P. T. McGrath on March 28, 1967. The surface casing program was changed from 9 5/8" OD - 36#/ft to 10 3/4" OD - 32.75#/ft H-40 casing.

RECEIVED
APR 3 1967
STATE O & G
CONS. COMM.

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

SIGNED E. C. Bridgeforth TITLE Engineer DATE 3-31-67

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

63 389

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 71b. 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.

64

Form 9-331 C
(May 1963)

SUBMIT IN (DUPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER SINGLE ZONE [ ] MULTIPLE ZONE [ ]

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.*)
At surface: 590' FSL and 1,870' FWL of Section 29, T36N, R30E, Apache County, Arizona
At proposed prod. zone: Same

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Navajo

9. WELL NO.: 7

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 29, T36N, R30E

12. COUNTY OR PARISH: Apache

13. STATE: Arizona

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 15 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): 590'

16. NO. OF ACRES IN LEASE: 2,533

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

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 2,612'

19. PROPOSED DEPTH: 3,400'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 7,498' GR

22. APPROX. DATE WORK WILL START*: March 29, 1967

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	9 5/8"	36	400'	Sufficient to circulate cement
8-3/4"	7"	20	3,400'	Sufficient to cover all potential productive zones.

Blow out preventors: 400' to 3,400'
1. Kill and choke manifold
2. 10" series 600 GRC or equivalent with pipe rams
3. 10" series 600 GRC or equivalent with blind rams

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED T. J. Breeden TITLE Engineer DATE March 24, 1967

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED MAR 27 1967 STATE O & G CONS. COMM.

*See Instructions On Reverse Side

64 389

APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

APPLICATION TO DRILL ☒ RE-ENTER OLD WELL ☐

Kerr-McGee Corporation
NAME OF COMPANY OR OPERATOR

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

Unknown
Drilling Contractor

Address

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or if fee lease, name of lessor: 14-20-0603-8823 Navajo

Well number: 7

Elevation (ground): 7,498 GL

Nearest distance from proposed location to property or lease line: 590 feet

Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: 2,612 feet

Number of acres in lease: 2,533

Number of wells on lease, including this well, completed in or drilling to this reservoir: 2 completed & 1 drilling

If lease, purchased with one or more wells drilled, from whom purchased: Name Address

Well location (give footage from section lines): 1,870' FWL and 590' FSL

Section—township—range or block and survey: Section 29-T36N-R30E

Dedication (Comply with Rule 105): E/2 of SW/4

Field and reservoir (if wildcat, so state): Wildcat Hermosa

County: Apache

Distance, in miles, and direction from nearest town or post office: 15 miles SW of Red Rock, Arizona

Proposed depth: 3,400

Rotary or cable tools: Rotary

Approx. date work will start: March 29, 1967

Bond Status Blanket Bond
Amount

Organization Report
On file X Or attached

Filing Fee of $25.00
Attached Yes

Remarks:
New Well

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

C. J. Breeden
Signature

March 24, 1967
Date

RECEIVED MAR 27 1967 STATE OIL & GAS CONS. COMM.

Permit Number: 389
Approval Date: 3-27-67
Approved By: John L. Bannister

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

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

Form No. 3

(Complete Reverse Side)

65

1. Operator shall outline the dedicated acreage for *both* oil and gas wells on the plat.

2. 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.

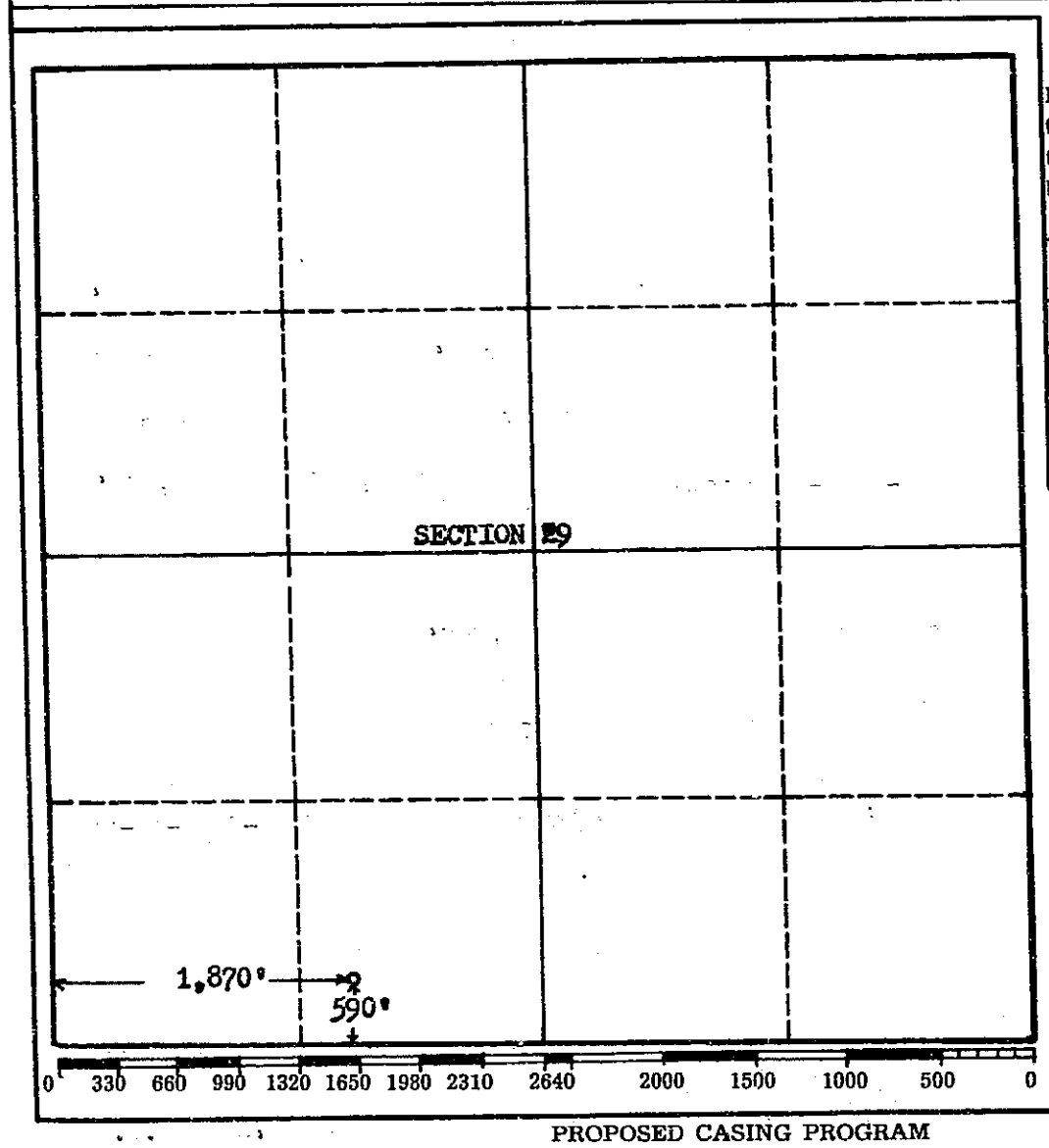
3. All distances shown on the plat must be from the outer boundaries of the Section.

4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES X NO_____

5. 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_____

6. If the answer to question four is "no," list all the owners and their respective interests below:

Owner	Land Description
Kerr-McGee Corporation	



CERTIFICATION

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

C J Breeden

Name: C. J. Breeden

Position: Engineer

Company: Kerr-McGee Corporation

Date: 3-24-67

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.

Date Surveyed: March 6, 1967

Registered Professional Engineer and/or Land Surveyor

Certificate No.

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
9 5/8	36	J-55	0	400	0-400	Sufficient to circulate
7"	20	J-55	0		Sufficient to cover all potential productive zones	

PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION,
STATE OF ARIZONA,

To: KERR-MC GEE CORPORATION
(OPERATOR)

to drill a well to be known as

KERR MC GEE #7 NAVAJO
(WELL NAME)

located 1870' FWL and 590' FSL (SE/4SW/4)

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

The E/2 SW/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 March, 19 66.

OIL AND GAS CONSERVATION COMMISSION

By John V. Bannister
EXECUTIVE SECRETARY

PERMIT Nº 389

RECEIPT NO. 9483

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

API # 02-001-20013

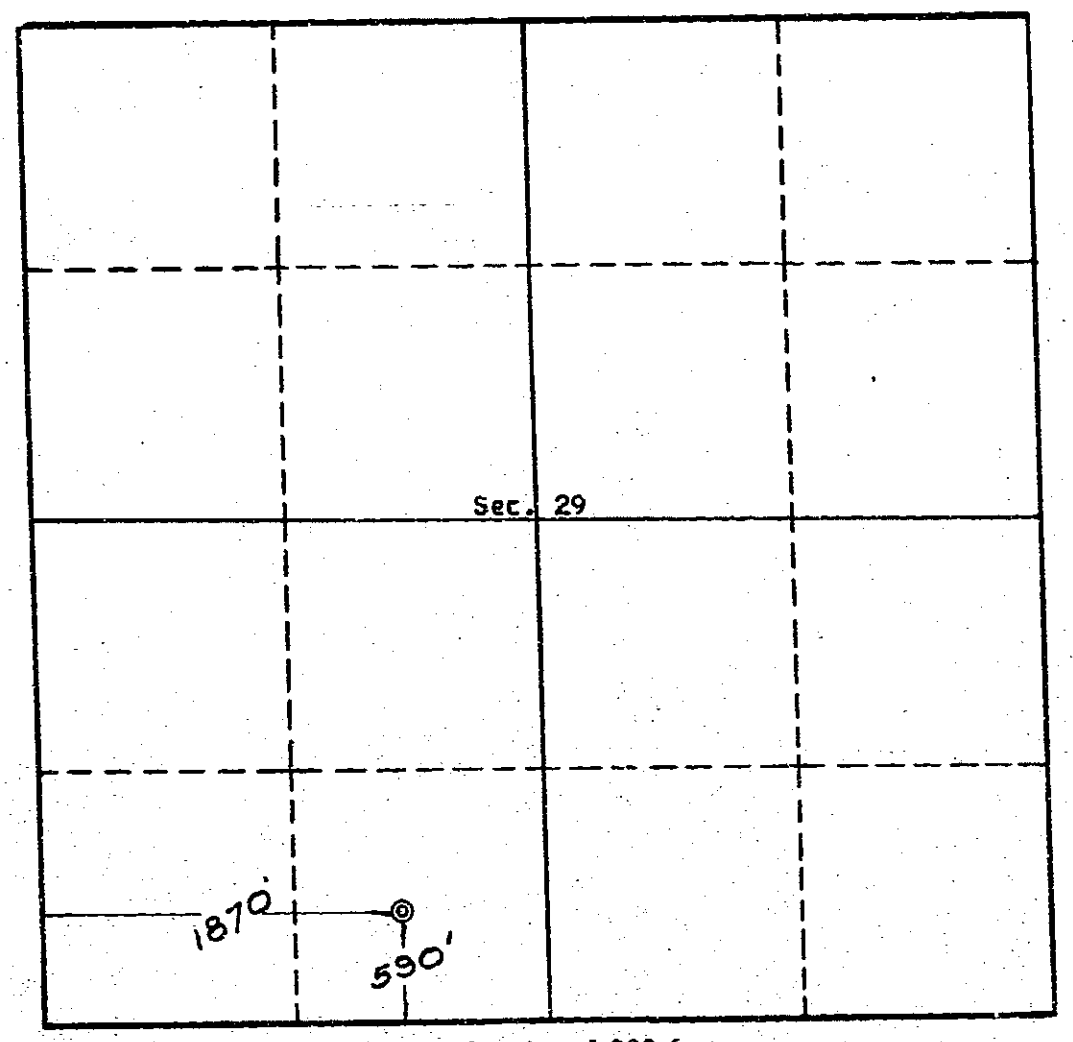
Company KERR-McGEE OIL INDUSTRIES, INC.

Well Name & No. #7 Navajo

Location 590 feet from the South line and 1870 feet from the West line.

Sec. 29, T. 36 N., R. 30 E., G. & S. R. M., County Apache, Arizona

Ground Elevation 7498 Est.



Scale, 1 inch = 1,000 feet

Surveyed March 6, 1967

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

REGISTERED LAND SURVEYOR
CERTIFICATE EXPIRES
Seal:
ERNEST V.
ECHOHAWK
DEC. 31, 1967
ARIZONA, U.S.A.

E. V. Echohawk

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

DINEH-BI-KEYAH FIELD

Operator: Mountian States Petroleum Corporation

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

Amount: $325,000*

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

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

Permits covered by this bond posted with the BIA:

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

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

Jane Dee Hull
Governor

Larry D. Fellows
Director and State Geologist

December 1, 1997

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

381

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

Dear Ms. Roberts:

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

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

Please advise if we may be of further service.

Sincerely,

Steven L. Rauzi

Steven L. Rauzi
Oil & Gas Program Administrator

Enclosure

Operator KERR-McGEE CORPORATION

Bond Company SAFECO INSURANCE COMPANY OF AMERICA Amount $25,000

Bond No. 2971100-2620 Date Approved FEBRUARY 18, 1994

CANCELLED

DATE

ACTIVE

Permits covered by this bond:

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

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

Fife Symington
Governor

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:

Well	API #
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

Steven L. Rauzi
Oil & Gas Program Administrator

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

CHANGES TO REPORTER INFORMATION

OLD INFORMATION:

MMS OPERATOR CODE: X0217

COMPANY NAME: KERR MCGEE CORPORATION

NEW INFORMATION:

MMS OPERATOR CODE: X0274

COMPANY NAME: MOUNTAIN STATES PETROLEUM CORP

CONTACT NAME: RUBY WICKERSHAM

STREET ADDRESS: 213 E FOURTH

CITY: ROSWELL

STATE: NM

ZIP CODE: 88201 -

PHONE: 505 (AREA CODE) 623 - 7184

COMPLETE IF APPLICABLE:

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

COMPANY SOLD TO: _____ EFFECTIVE DATE: _____

LEASES / AGREEMENTS AFFECTED: NAVAJO #7 (389)

Dineh Bi Keyah Field - Apache County, Arizona

Lease #: 14-20-0603-8823 API #: 020012001300S1

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

JUN 8 1994

SIGNATURE: Judy Burkhart

DATE: 5/13/93

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

FORM MMS – RPD/PRB/INFO FORM (REVISED 4/93)

389

P. O. BOX 1936 505 623-7184

MOUNTAIN STATES PETROLEUM CORPORATION
213 EAST FOURTH STREET
ROSWELL, NEW MEXICO
88202

June 6, 1994

AZ OIL & GAS
CONSERVATION COMMISSION
JUN 8 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;

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

389

P. O. BOX 1936

505 623-7184

MOUNTAIN STATES PETROLEUM CORPORATION
213 EAST FOURTH STREET
ROSWELL, NEW MEXICO
88202

May 24, 1994

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

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

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

Dear Sir;

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

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

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

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

Sincerely,

Judy Burkhart

Judy Burkhart,
Secretary

Attachment

AZ
CONSERVATION COMMISSION
MAY 31 1994

389

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

Fife Symington
Governor

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,

Steven L. Rauzi

Steven L. Rauzi
Oil and Gas Program Administrator

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

PHONE
806 376-7256

December 5, 1977

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

Re: Kerr-McGee Corporation's Navajo Nos. 7 and 9 Workovers, Dineh-Bi-Keyah Field, Section 29 & 30 T36N-R30E, Apache County, Arizona.

Dear Sirs:

Please find attached two (2) copies of "Sundry Notices and Reports on Wells" for the above mentioned wells.

If any further information is needed, please call me collect at (806) 376-7256.

Sincerely,

KERR-McGEE CORPORATION

Larry D. McRae

Larry D. McRae
District Manager, Engineering
Southwest District - North America

LDM/LB/vs

Enclosures

389

RECEIVED
DEC 12 1977
O & G CONS. COMM.

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

PHONE
806 376-7256

October 28, 1977

RECEIVED
NOV 7 1977
O & G CONS. COMM.

State of Arizona
Oil & Gas Conservation Commission
4515 N. 7th Ave.
Phoenix, Arizona 85013

Re: Kerr-McGee Corporation's Navajo Nos. 7 & 9 Workovers, Dineh-Bi-Keyah Field, Section 31-T36N-R30E, Apache County, Arizona

Dear Sirs:

Please find attached two (2) copies of "Sundry Notices and Reports on Wells" for the above mentioned wells.

If any further information is needed, please call me collect at (806) 376-7256.

Sincerely,

KERR-McGEE CORPORATION

Larry D. McRae
District Manager, Engineering
Southwest District - North America

LDM/vs

Enclosures

396
389

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

PHONE
806 376-7256

November 5, 1973

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

Attention: Mr. W. E. Allen
Director

Dear Mr. Allen:

In regards to your letter of September 18, 1973, requesting reserve information for the Dineh-bi-Keyah Field and Pinta Dome Field, please be advised that I have referred your letter to our Oklahoma City office and have determined that due to company policy, we are unable to furnish the information at this time.

Yours truly,

KERR-McGEE CORPORATION

Warren E. Richardson

Warren E. Richardson
District Manager
Southwestern District

WER/mm

RECEIVED
NOV 1973
O & G CONS. COMM.

389

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

September 18, 1973

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

Dear Mr. Richardson:

Will you please supply this Commission with any information that you might have regarding the recoverable reserves in the Dineh-Bi-Keyah Field and also in the Pinta Dome Field?

This information will be considered confidential if you so desire.

Thank you for your cooperation.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

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:

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

CANCELLED

DATE 10-24-68

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

CANCELLED

DATE 10-19-73

CANCELLED

DATE

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-Keyah 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. 7-18-67, T.D. 2960'.

Kerr-McGee #7 Navajo, 590' FSL & 1670' 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'.

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 - 1624 West Adams
Phoenix, Arizona 85007

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

389

188

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

August 11, 1967

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

Attention: Mr. John Bannister
Executive Secretary

Re: Confidential Well Information
Dineh-bi-Keyah Field
Apache County, Arizona

Dear John:

Please be advised that Kerr-McGee has removed from confidential well status the following wells:

Navajo No. 1	-	SESW, Section 32, T36N, R30E
Navajo No. 2	-	SENW, Section 32, T36N, R30E
Navajo No. 3X	-	SESE, Section 32, T36N, R30E
Navajo No. 4	-	SENE, Section 32, T36N, R30E
Navajo No. 6	-	SENE, Section 31, T36N, R30E
Navajo No. 7	-	SESW, Section 29, T36N, R30E
Navajo No. 8	-	SESE, Section 29, T36N, R30E
Navajo No. 9	-	SESE, Section 30, T36N, R30E
Navajo No. 14	-	SENW, Section 31, T36N, R30E
Navajo No. 15	-	SESW, Section 30, T36N, R30E
Navajo No. 16	-	SENW, Section 30, T36N, R30E
Navajo No. C-2	-	SENW, Section 33, T36N, R30E

Kerr-McGee desires to hold in the confidential status the information on the following wells:

Navajo No. 5	-	SESE, Section 31, T36N, R30E
Navajo No. 13	-	SESW, Section 31, T36N, R30E
Navajo No. B-1	-	SENW, Section 5, T35N, R30E
Navajo No. B-2	-	SENE, Section 5, T35N, R30E
Navajo No. E-1	-	SESE, Section 20, T36N, R30E

Very truly yours,

C. D. Williams
Production Superintendent

RECEIVED
AUG 14 1967
STATE O & G
CONS. COMM.

CDW:la

CC: USGS - Farmington
Navajo Tribe - Farmington

389

July 19, 1967

Oil and Gas Conservation Commission
Room 202 - 1624 W. Adams
Phoenix, Arizona 85007

Attn: Mr. John Bannister

Re: Well Logs For:
Navajo Well 3X
Apache County, Arizona
S32-T36N-R30E

Gentlemen:

With reference to Kerr-McGee's letter of July 12, 1967 wherein the set of electric logs was furnish to the commission with the request that they be kept confidential for the remainder of the six-month period, this is to advise that effective immediately Kerr-McGee authorizes the release and use of the logs on Well #3X.

In order to further clarify Kerr-McGee's position, release is also authorized for all other data with reference to the wells for which the logs have also been released.

Very truly yours,

KERR-MCGEE CORPORATION

C.F. Miller

C.F. Miller, General Manager
Oil & Gas Prodn. Oprs.

RECEIVED
JUL 19 1967
STATE O & G
CONS. COMM.

RECEIVED
STATE O & G
CONS. COMM.

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

July 14, 1967

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

Attention: Mr. John Bannister

RE: Well Logs
Dineh-bi-Keyah Field
Apache Co., Arizona

Dear John:

Kerr-McGee Corporation has authorized the release and use of the following well logs which are enclosed:

Navajo No. 6 - Induction-Electric Log
Borehole Compensated Sonic
Log Gamma-Ray
Gamma-Ray Neutron Log

Navajo No. 7 - Induction-Electric Log
Borehole Compensated Sonic
Log Gamma-Ray

Navajo No. 9 - Induction-Electric Log
Borehole Compensated Sonic
Log Gamma-Ray

Navajo No. 14- Induction-Electric Log
Induction Gamma-Ray Log
Formation Density Log
Borehole Compensated Sonic
Log Gamma-Ray

Very truly yours,
Kerr-McGee Corporation

C. D. Williams by Gary Rath

C. D. Williams
Production Superintendent

RECEIVED
JUL 17 1967
STATE O & G
CONS. COMM.

CDW:la

Enclosures

Minor correct accordy

KERR-McGEE CORPORATION

KERR-McGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

215 Petroleum Center Building
Farmington, New Mexico
June 5, 1967

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

Attn: Mr. John Bannister, Executive Secr.

RE: 160 Acre Units
Lower Hermosa Formation
Dinah-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

RECEIVED JUN 9 1967 STATE O & G CONS. COMM.

522

KERR-McGEE CORPORATION
KERR-McGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

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

Copy mailed
file

KERR-McGEE

POST OFFICE BOX [illegible] OKLAHOMA CITY, OKLA. [illegible]

April 25, 1967

RECEIVED
STATE O & G
CONS. COMM.

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 Dineh bi 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 one our Navajo wells No.4, 5, 6,8 and 12, and Navajo E-1 and C-1. Most of the road and location work has been completed on these locations.

Yours very truly,
Kerr-McGee Corporation

O. C. Barton

Division Supt. Oil & Gas Production
Sunray, Texas.

385

KERR-McGEE CORPORATION
POST OFFICE BOX "K" • SUNRAY, TEXAS 79086

April 20, 1967

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

Attention: Mr John Bannister

Gentlemen:

Enclosed are two copies each of USGS Form 9-331 Sundry Notice and Reports On Wells, covering setting and testing the surface casing for the Kerr-McGee Corporation Navajo No. 9, located 640' FSL and 550' FEL of Section 30, T36N, R30E, Apache County, Arizona and the perforating, acidizing and fracturing of the Kerr-McGee Corporation Navajo No. 7, located 590' FSL and 1870' FWL of Section 29, T36N, R30E, Apache County, Arizona.

Please keep all information concerning these wells confidential.

Yours very truly,

KERR-McGEE CORPORATION

E. C. Reish, Jr.

E. C. Reish, Jr.

ECR/s

Enclosures

RECEIVED
APR 21 1967
STATE O & G
CONS. COMM.

585

KERR-McGEE CORPORATION
POST OFFICE BOX "K" • SUNRAY, TEXAS 79086

April 17, 1967

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

Attention: Mr. John Bannister

Gentlemen:

Enclosed are two copies of USGS Form 9-331, Sundry Notices and Reports on Wells, covering setting and testing the production casing for the Kerr-McGee Corporation Navajo No. 7, located 590' FSL and 1870' FWL of Section 29, T36N, R30E, Apache County, Arizona.

Please keep this information confidential.

Yours very truly,

KERR-McGEE CORPORATION

E. C. Reish, Jr.

E. C. Reish, Jr.

ECR/s

Enclosures:

RECEIVED
APR 18 1967
STATE O & G
CONS. COMM.

389

KERR-McGEE CORPORATION
POST OFFICE BOX "K" • SUNRAY, TEXAS 79086

March 31, 1967

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

Attention: Mr. John Bannister

Gentlemen:

Enclosed are two copies of U.S.G.S. Form 9-331 , Sundry Notices and Reports on Wells, covering setting and testing the surface casing for the Kerr-McGee Corporation Navajo No.7 located 590' FSL and 1870' FWL of Section 29, T36N, R30E, Apache County, Arizona.

Yours very truly

KERR-McGEE CORPORATION

E. C. Reish, Jr.

E. C. REISH, Jr.

Enclosures:

ECR/s

RECEIVED
APR 3 1967
STATE O & G
CONS. COMM.

389

385

KERR-McGEE CORPORATION
POST OFFICE BOX "K" • SUNRAY, TEXAS 79086

March 31, 1967

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

Attention: Mr. John Bannister

Gentlemen:

Enclosed are two copies of U.S.G.S. Form 9-331, Sundry Notices and Reports on Wells, covering a change in the proposed casing program for the Kerr-McGee Corporation Navajo No. 7, located 590' FSL and 1870' FWL of Section 29, T36N, R30E, Apache County, Arizona.

Verbal approval for the change was given by Mr. Bannister on March 28, 1967.

Your very truly,

E. C. Reish, jr.

E. C. Reish, jr.

ECR:bb

:Enclosure

RECEIVED
APR 3 1967
O & G
STATE CONS. COMM.

389

385

KERR-McGEE CORPORATION

POST OFFICE BOX "K" • SUNRAY, TEXAS 79086

March 24, 1967

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

Attention: Mr. John Bannister

Gentlemen:

Enclosed are two copies of Arizona Oil and Gas Conservation Commission Form 3, Application for Permit to Drill, one copy of USGS Form No. 9-331C, Application to Drill, and two copies of Surveyors Plat for the Kerr-McGee Corporation Navajo No. 7, located 590' FSL and 1,870' FWL of Sec. 29, T36N, R30E, Apache County, Arizona. Also enclosed is a draft of $25.00 for the filing fee.

Yours very truly,
KERR-MCGEE CORPORATION

C. J. Breeden

C. J. Breeden

Enclosures

RECEIVED
MAR 27 1967
STATE O & G
CONS. COMM.

389