

P-W

CONFIDENTIAL

Release Date 7-19-67 *etc*

Kerr-McGee #14 Navajo 41B
SE NW 31-36N-30E Apache County

COUNTY Apache AREA 10 mi SW Red Rock LEASE NO. Nav 14-20-0603-8823

WELL NAME Mtn. States Petroleum (5-1-54)
-Kerr-McGee #14 Navajo

LOCATION SE NW SEC 31 TWP 36N RANGE 30E FOOTAGE 2020' FNL -2060' FWL
ELEV 8555 GR 8568 KB SPUD DATE 6-10-67 STATUS Oil COMP. DATE 7-9-67 TOTAL DEPTH 3920

CONTRACTOR Pico Drilling Co. 3800 Sunset Avenue Farmington

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
9 5/8	754	600 Sks	NA	<input checked="" type="checkbox"/>
7	3829	150 Sks		<input type="checkbox"/>

DRILLED BY CABLE TOOL
PRODUCTIVE RESERVOIR
INITIAL PRODUCTION Open hole 3829-3920
301 BOPD 390 MCF PD

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Tertiary	Surface		x	
Traissic	730'			
Permian	1548'			
Cutler	2260'			
Hermosa	3358'			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
IES, IGR, SonicGR	3829-3920	3829-3920	SAMPLE DESCRP. <u>Farm Cut</u>
Formation Density			SAMPLE NO. _____
			CORE ANALYSIS _____
			DSTs _____

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

WATER WELL ACCEPTED BY _____

BOND CO. Firemen's Insurance Company BIA BOND BOND NO. 188-98-10-528
DATE _____ ORGANIZATION REPORT 7-14-60
BOND AMT. \$ 25,000 CANCELLED 12/1/57 WELL BOOK PLAT BOOK
FILING RECEIPT 9508 LOC. PLAT DATE ISSUED 6-8-67 DEDICATION NW/4
API NO. None

PERMIT NUMBER 446
(416)

CONFIDENTIAL

(over)

Release Date 7-19-67

ARIZ. 6

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG																	
DESIGNATE TYPE OF COMPLETION:																	
New Well	<input checked="" type="checkbox"/>	Work-Over	<input type="checkbox"/>	Deepen	<input type="checkbox"/>	Plug Back	<input type="checkbox"/>	Same Reservoir	<input type="checkbox"/>	Different Reservoir	<input type="checkbox"/>	Oil	<input checked="" type="checkbox"/>	Gas	<input type="checkbox"/>	Dry	<input type="checkbox"/>
DESCRIPTION OF WELL AND LEASE																	
Operator KERR-MCGEE CORPORATION				Address 215 PETROLEUM CENTER BLDG.-FARMINGTON, N.M.													
Federal, State or Indian Lease Number or name of lessor if fee lease 14-20-0603-8823 Nava jo				Well Number No. 14	Field & Reservoir Dineh-bi-Keyah Hermosa												
Location 2020' FNL & 2060' FWL (SE NW)				County Apache County													
Sec. TWP-Range or Block & Survey Sec. 31 - T36N - R30E																	
Date spudded 6-10-67	Date total depth reached 6-27-67	Date completed, ready to produce 7-9-67	Elevation (DF, RT or Gr.) 8555'	Elevation of casing hd. flange --		feet											
Total depth 3920'	P.B.T.D. --	Single, dual or triple completion? Single.	If this is a dual or triple completion, furnish separate report for each completion.														
Producing interval (s) for this completion 3829' - 3920'			Rotary tools used (interval) All	Cable tools used (interval) None													
Was this well directionally drilled? No	Was directional survey made? No	Was copy of directional survey filed? --	Date filed --														
Type of electrical or other logs run (check logs filed with the commission) IES, IGR, Sonic-GR, Formation Density.			Date filed All filed: 7-14-67.														
CASING RECORD																	
Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)																	
Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled											
Surface	13-3/4	9-5/8" OD	32.30#	754'	600sxsCmt.	None											
Production	8-3/4	7" OD	20#	3829'	1005xsPozm	None											
					50 Cement.												
TUBING RECORD			LINER RECORD														
Size	OD	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)									
3-1/2	in.	3820 ft.	None ft.	None in.	- ft.	- ft.	-	-									
PERFORATION RECORD				ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD													
Number per ft.	Size & type	Depth interval	Amt. & kind of material used		Depth Interval												
Open Hole	Pay.	3829'-3920'	60,000 gals. oil, 30,000# sand.		3829' - 3920'												
INITIAL PRODUCTION																	
Date of first production 7-9-67		Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump): Flowing.															
Date of test 7-11-67	Hrs. tested 24	Choke size 43/64	Oil prod. during test 301 bbls.	Gas prod. during test 390 MCF	Water prod. during test 0 bbls.	Oil gravity 29.9° API (Corr)											
Tubing pressure 90	Casing pressure 240	Cal'ed rate of Production per 24 hrs.	Oil 301 bbls.	Gas 390 MCF	Water 0 bbls.	Gas-oil ratio 1296/1											
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.																	
Date July 27, 1967			Signature <i>M.D. Welch</i>														
Permit No. 416			STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Well Completion or Recompletion Report and Well Log Form No. 4 File One Copy														

DETAIL OF FORMATIONS PENETRATED

★

Formation	Top	Bottom	Description*
CHUSKA (Tertiary)	SURF.	730'	WH. SD. & GRY SH.
CHINLE (Triassic)	730'	1548'	RED SH. W/THIN STRINGERS OF SD.
COCONINO (Permian)	1548'	2260'	MASSIVE SD.
CUTLER (Permian)	2260'	3358'	RED SH., LIME AND SD.
HERMOSA (Penn.)	3358'	3912'TD	LIME W/RED & GRY SH. IGNEOUS ROCK 3824'-3912'

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

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

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

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

Federal, State or Indian Lease Number, or lessor's name if fee lease <u>14-20-0603-8823</u>	Field <u>Dineh-BI-Keyah</u>	Reservoir <u>Hermosa</u>
Survey or Sec-Twp-Rge <u>Sec 29, 30, 31, 32 T-36N-R30E</u>	County <u>Apache</u>	State <u>AZ</u>
Operator <u>Mountain States Petroleum Corp.</u>		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street <u>P O Bx 1936</u>	City <u>Roswell,</u>	State <u>New Mexico 88202</u>
Above named operator authorizes (name of transporter) <u>Giant Industries</u>		
Transporter's street address <u>P O Bx 12999</u>	City <u>Scottsdale,</u>	State <u>AZ</u>
Field address <u>P O Bx 256 (Bloomfield Hwy) Farmington, N M 87499</u>		
Oil, condensate, gas well gas, casinghead gas		
To transport	<u>100% of the</u>	<u>oil</u> 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. <u>Change of Oper.</u>		

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

Ruby Wickersham
Signature

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

By: Steven L. Rainey

Permit No. 416

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

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

Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-0603-8823 Navajo	Field Dineh-Bi-Keyah	Reservoir Hermosa
Survey or Sec-Twp-Rge Several - T 36 N, R 30 E	County Apache	State Arizona
Operator Kerr-McGee Corporation		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street P. O. Box 250	City Amarillo	State Texas, 79189
Above named operator authorizes (name of transporter) Gary-Williams Energy		
Transporter's street address 370 17th St., Suite 5300	City Denver	State Colorado, 80202
Field address P. O. Box 159, Bloomfield, NM 87413		
Oil, condensate, gas well gas, casinghead gas		
To transport	100% of the Oil	from said lease.
OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:		
Name of gatherer	% transported	Product transported
Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change.		

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

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

Date 8/18/92 Signature H.H. Rice **H.H. Rice**

Date approved: 8-21-92

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By: Steven L. Rainz

Permit No. _____

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

RECEIVED
DEC 12 1983
O & G CONS. COMM.

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Kerr-McGee Corporation
2. Oil WELL GAS WELL OTHER (Specify) _____
3. Well Name Navajo #14
Location 2020' FNL & 2060' FWL
Sec. 31 Twp. 36N Rge. 30E County Apache Arizona.
4. Federal, State or Indian Lease Number, or lessor's name if fee lease Navajo Lease ID#-14-20-0603-8823
5. Field or Pool Name Dineh-Bi-Keyah

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

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

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

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

11/15/83 Pumped 600 gallons of 15% HCl Xylene 50/50 mix down annulus at 0 psi, 5 BPM. Additives in acid were:

1 gal/1000 gal: iron control agent
" " clay stabilizer
" " iron scale inhibitor
" " surfactant-non emulsifier
" " corrosion inhibitor

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

Signed Robert Payne Title Engineering Assist. Date 12/08/83

Permit No. _____

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

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

PERMIT IN APPLICATION
(Other Instructions on reverse side)

Form approved.
Budget Bureau No. 42-11424.

D. LEASE DESIGNATION AND SERIAL NO.

14-20-0603-8823

G. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

NAVAJO

9. WELL NO.

14

10. FIELD AND POOL, OR WILDCAT

DINEH-BI-KEYAH

11. SEC., T., R., M., OR B.L.E. AND SURVEY OR AREA

Sec. 31, T36N, R30E,

G&SRM Survey

12. COUNTY OR PARISH 13. STATE

Apache

Arizona

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
KERR-MCGEE CORPORATION

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

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

2020' FNL and 2060' FWL, Section 31, T36N, R30E
G&SRM Survey

14. PERMIT NO.
State No. 416

15. ELEVATIONS (Show whether of, ft, or, etc.)
8,555 GL

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

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

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

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

Acidized well w/1000 gals Resi-Sol. Pulled rods, pump and tubing. Cleaned out to 3900'. Fracture treated well with 500 gals scale preventative, 90,670 gals crude oil; 10,350# 100 mesh sand; 69,655# 10-20 sand. A.I.R: 104 BPM. A.I.P: 1340 PSI. Cleaned out fill-up to 3900'. Ran tubing, pump, and rods and placed well on production.

Date of Workover: December 28, 1977 to January 4, 1978

RECEIVED

JAN 16 1978

O & G CONS. COMM.

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

SIGNED Larry D. McRae
L. D. McRae

TITLE District Manager - Engineering DATE January 10, 1978

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____ DATE _____

*See Instructions on Reverse Side

Form 9-331
(May 1903)

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. INDIAN ALLOTTEE OR TRIBE NAME NAVAJO	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME NAVAJO	
9. WELL NO. NO. 14	
10. FIELD AND POOL, OR WILDCAT DINEH-BI-KEYAH	
11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA Sec. 31-T36N-R30E G & SRM Survey	
12. COUNTY OR PARISH APACHE	13. STATE ARIZONA
14. PERMIT NO. State No. 416	15. ELEVATIONS (Show whether DF, RT, OR, etc.) 8,555' GR

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

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

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

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

Acidize well with 1,000 gal. Resi-sol and 100 gal. crude oil (down tubing annulus) Pump acid out. Pul pump, rods, and tubing. Clean out to 3,920'. Fracture treat with 500 gal. scale preventor; 101,400 gal. crude oil; 10,350# of 100 mesh sand; 81,000# 10-20 sand @ 120 BPM. Clean out to 3,920'. Run tubing, pump and rods and place well on production.

Est. Date: November 17, 1977

RECEIVED

NOV 14 1977

O & G CONS. COMM.

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

SIGNED *L. D. McRae* L. D. McRae

TITLE District Manager-Engineering DATE 11-11-77

(This space for Federal or State official use)

APPROVED BY *W. B. Allen*

TITLE DATE 11-18-77

CONDITIONS OF APPROVAL, IF ANY:

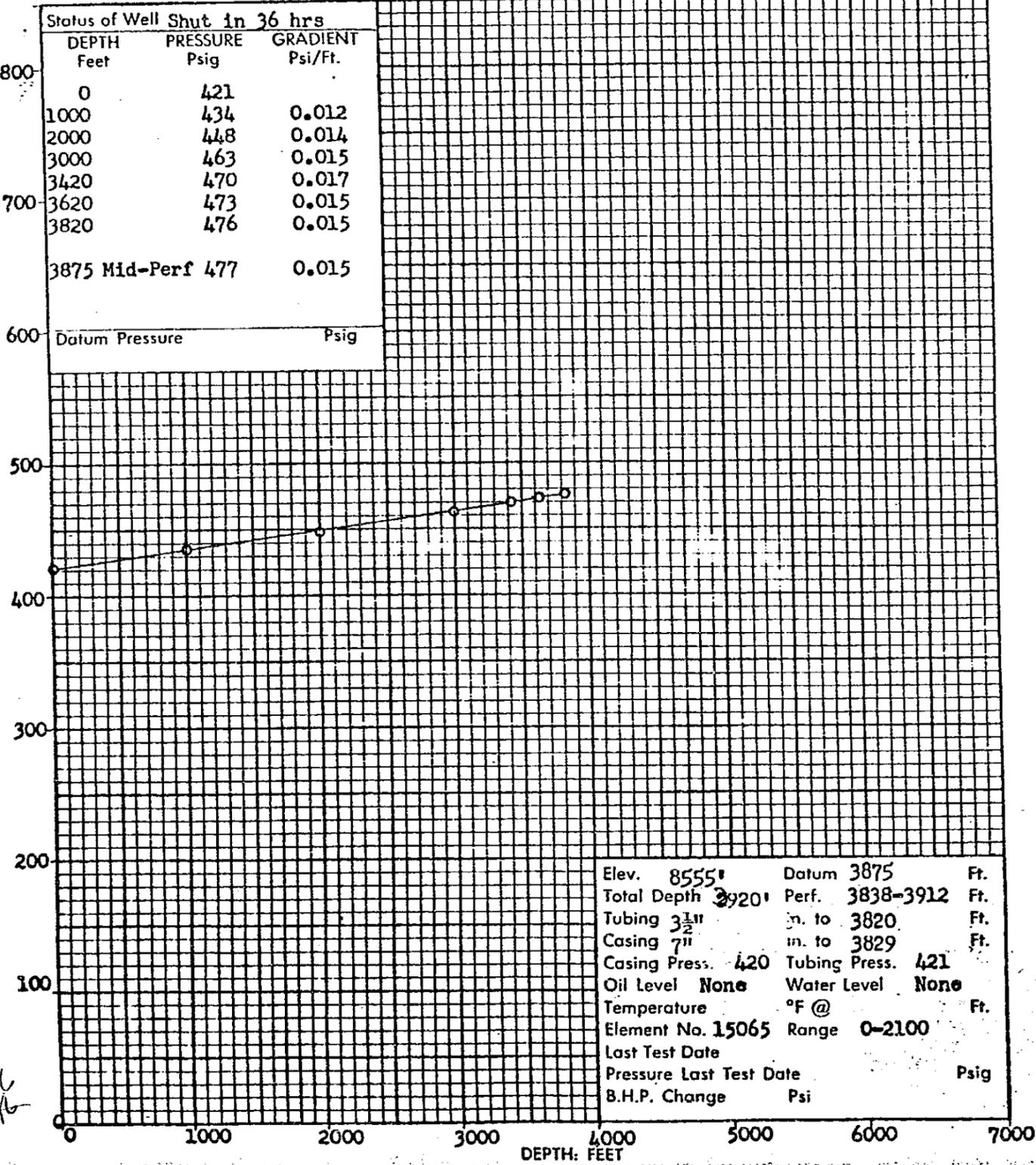


Page 1 of 1
File 2-2149-P

Company KERR-McGEE CORPORATION Lease NAVAJO Well No. 14
Field DINEH-BI-KEYAH County APACHE State ARIZONA
Formation LO-ER HERMOSA Test Date JULY 8, 1967

Status of Well Shut in 36 hrs		
DEPTH Feet	PRESSURE Psig	GRADIENT Psi/Ft.
0	421	
1000	434	0.012
2000	448	0.014
3000	463	0.015
3420	470	0.017
3620	473	0.015
3820	476	0.015
3875 Mid-Perf	477	0.015
Datum Pressure		Psig

PRESSURE POUNDS PER SQUARE INCH GAUGE



Elev. 8555' Datum 3875 Ft.
Total Depth 3920' Perf. 3838-3912 Ft.
Tubing 3 1/2" in. to 3820 Ft.
Casing 7" in. to 3829 Ft.
Casing Press. 420 Tubing Press. 421
Oil Level None Water Level None
Temperature °F @ Ft.
Element No. 15065 Range 0-2100
Last Test Date
Pressure Last Test Date Psig
B.H.P. Change Psi

446
3/16

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.

Form 9-331
(May 1963)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
NAVAJO

9. WELL NO.
NO. 14

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

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

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Kerr-McGee Corporation

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
SE NW Section 31, T36N, R30E.

14. PERMIT NO.
State No. 416

15. ELEVATIONS (Show whether DF, RT, CR, etc.)
8555'

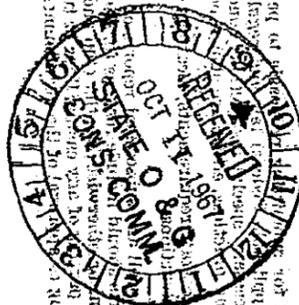
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

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

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

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

Pat well on pump 9-26-67. Install 3" x 1-1/2" x 16' Volume Producer Insert pump and DH-160 pumping unit. Pumped at rate of 140 BOPD; 286 GOR.



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

SIGNED [Signature] TITLE **Production Supt.** DATE **Oct. 9, 1967**

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

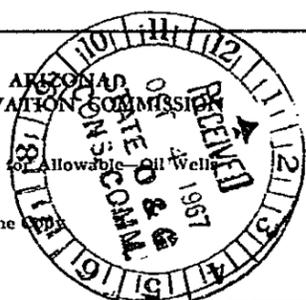
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

46

ARIZ.

POTENTIAL TEST AND REQUEST FOR ALLOWABLE WELLS				
DESIGNATE TYPE OF COMPLETION:				
New Well <input checked="" type="checkbox"/>	Work-over <input type="checkbox"/>	Deepen <input type="checkbox"/>	Plug Back <input type="checkbox"/>	Same Reservoir <input type="checkbox"/> Different Reservoir <input type="checkbox"/>
Other Reason For Filing: KERR-MCGEE CORPORATION				
Operator 215 PETROLEUM CENTER BLDG.				
Address FARMINGTON, NEW MEXICO				
DESCRIPTION OF WELL AND LEASE				
Federal, State or Indian Lease Number, or Lessor's Name if Fee Lease 14-20-0603-8823		Well Name Navajo	County Apache	
Footage Location 2020' FNL & 2060' FWL (SE NW)				
Sec. Twp. Rge. Sec. 31-T36N-R30E				
Date spudded 6-10-67	Date completed, ready to produce 7-9-67	Total depth 3920'	P.B.T.D. - -	
Field and reservoir Dineh-bi-Keyah Field Hermosa		Top of pay 3824'	Producing interval 3829' - 3920'	
TEST DATA				
Date of first production 7-9-67	Date of test 7-11-67	Length of test 24 hrs.	Producing method (flow pump, gas lift) Flowing	Amount of load oil injected if any.
Number of barrels of oil produced from completion or recompletion date to test date 212		If well is produced by pumping, give pump size, length of stroke and strokes per minute.		
Tubing pressure 90	Casing pressure 240	Choke size 43/64		
*Actual production during test: 301	Oil (bbls) 301	Water (bbls) 0	Gas (MCF) 390	
*Production must actually equal or exceed wells daily allowable or test must be for full 24 hours				
Gas-oil ratio 1296/1	MCF/bbl.	Oil gravity 42.9	* A.P.I. corrected	Name of transporter of oil Kerr-McGee Pipeline Corp.
Number of acres attributed to this well 160	Number of producing wells in this reservoir on this lease, including this well 9	Single, dual or triple completion? Single	Daily allowable requested (bbls)	
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 <u>Production Supt.</u> of the <u>Kerr-McGee Corporation</u> (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.				
Date 7-27-67		Signature <i>C. D. Welham</i>		
Witnessed by: <u>Kerr-McGee Corporation</u> Organization <i>Gary Roth</i> Signature 7-27-67 Date		STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Potential Test & Request for Allowable Wells File One		
Permit No. <u>416</u>		Form No. 6		



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-14714.4.

ALLS TYPE _____
TRIBE Navajo
LEASE NO. 11-20-0603-8623

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Arizona County Apache Field Dineh-bi-Keyah
The following is a correct report of operations and production (including drilling and producing wells) for the month of July, 1967,
Agent's address 215 Petroleum Center Building Company Kerr-McGee
Farmington, New Mexico 87401 Signed Ray Roth
Phone 327-9637 Agent's title Production Engineer

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE SW 32	36N	30E	1	25						Pulled 2-7/8" tubing and Reda pump. Frac with 60,000 gallons of crude, 30,000# sand. Ran Reda pump on 3-1/2" tubing set @ 2762' on 7-23-67 well tested 1851 BO/24 hrs, 43.3° API, 73 ft.³/bbl. Production data will be submitted as soon as run figures are received from Permian Corporation and have been verified.
SE NW 32	36N	30E	2	31						Production data will be submitted as soon as run figures are received from Permian Corporation and have been verified.
SE SE 32	36N	30E	3X	29						"
SE SW 29	36N	30E	7	28						"
SE SE 30	36N	30E	9	28						"
SE SE 31	36N	30E	5	None						No activity on this well in July, 1967, operation suspended 6-21-67.
SE SE 31	36N	30E	6	23						Ran 2-1/2" x 2" x 16" BH pump, set @ 3642'. On 7-11-67 well tested 163 BO/24 hrs, 42.6° API, 135 ft.³/bbl GOR, 2.5% BS&W.
SE NW 31	36N	30E	14	23						Frac with 60,000 gals. crude & 30,000 # sand. Ran 3-1/2" tubing set @ 3820'. Flow testing well.
SE SW 30	36N	30E	15	17						Drill 6-1/4" hole to 3225' with cable tool unit. 7" casing had been set @ 3159'. This leaves an open hole completion in the pay zone from 3159' - 3225'. Frac with 60,000 gals. crude and 30,000# sand. Ran Reda pump on 3-1/2" tubing. Set @ 3122'. Pump testing well.

NOTE.—There were _____ runs or sales of oil; _____ 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.



8 414



July 27, 1967

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

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

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

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

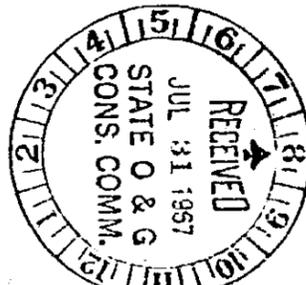
Please find enclosed additional pressure information which we have acquired during the initial productive life of the subject reservoir.

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.

#416



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July 27, 1967
Page -2-

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



414
10

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

13 916



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

2-ARRB

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other

b. TYPE OF COMPLETION: NEW WELL 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: 2020' FNL & 2060' FWL (SE NW) Sec. 31, T36N, R30E
At top prod. interval reported below: Apache Co., Arizona
At total depth: Same as above.

14. PERMIT NO. DATE ISSUED
Same. 6-7-67

5. LEASE DESIGNATION AND SERIAL NO.
14-20-0603-88239

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NAVAJO

7. UNIT AGREEMENT NAME
NAVAJO

8. FARM OR LEASE NAME
NAVAJO

9. WELL NO.
NO. 14

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

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 31, T36N, R30E
G&SRM

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

15. DATE SPUNDED 6-10-67 16. DATE T.D. REACHED 6-27-67 17. DATE COMPL. (Ready to prod.) 7-9-67 18. ELEVATIONS (DF, RSB, RT, GR, ETC.)* 8555'

20. TOTAL DEPTH, MD & TVD 3920' 21. PLUG, BACK T.D., MD & TVD - - 22. IF MULTIPLE COMPL., HOW MANY* - - 23. INTERVALS DRILLED BY - - ROTARY TOOLS All. CABLE TOOLS - -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
3829' - 3920' Hermosa Intrusive

26. TYPE ELECTRIC AND OTHER LOGS RUN
IES - IGR, Sonic-GR, Formation Density.

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"OD	32.30#	754'	13-3/4	600 sxs cement	None
7"OD	20#	3829'	8-3/4	100 sxs Pozmix-50 cmt.	None

29. LINER RECORD				30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)
None.					3-1/2"OD	3820'

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL (MD)	SIZE	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
Open Hole Pay	3829' - 3920'	3829' - 3920'	60,000 gals. oil, 30,000# sand.

33. PRODUCTION

DATE FIRST PRODUCTION 7-9-67 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing. WELL STATUS (Producing or shut-in) Producing.

DATE OF TEST 7-11-67 HOURS TESTED 24 CHOKER SIZE 43/64 PROD'N. FOR TEST PERIOD - - OIL—BBL. 301 GAS—MCF. 390 WATER—BBL. 0 GAS-OIL RATIO 1296

FLOW. TUBING PRESS. 90 CASING PRESSURE 240 CALCULATED 24-HOUR RATE - - OIL—BBL. 301 GAS—MCF. 390 WATER—BBL. 0 OIL GRAVITY-API (CORR.) 42.9

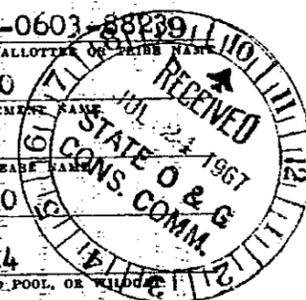
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented. TEST WITNESSED BY Gary Roth

35. LIST OF ATTACHMENTS
None - logs furnished 7-18-67.

38. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED *[Signature]* TITLE Prod. Supt. DATE 7-20-67

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



15 414

416

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and losses 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 28, 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. Contact 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 27: *Sack&Combs*: 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.)

FORMATION	DEPTH		DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS	
	TOP	BOTTOM		NAME	MEAS. DEPTH
CHUSKA (Tertiary)	Surface	730'	WH. SD. & GRY. SH.		
CHINLE (Triassic)	730'	1548'	RED SH. W/THIN STRINGERS OF SD.		
COCONINO (Permian)	1548'	2260'	MASSIVE SD.	Permian	3358'
CUTLER (Permian)	2260'	3358'	RED SH., LIME AND SD.	Pennsylvanian	3912'
HERMOSA (PENN.)	3358'	3912'	LIME W/RED & GRY SH.		
		Tot. Dep.	IGNEOUS ROCK 3824' to 3912'		

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

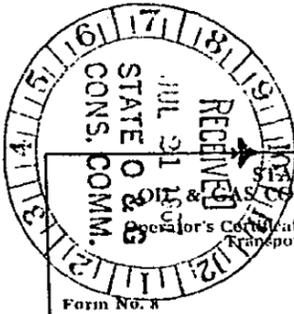
Federal, State or Indian Lease Number, or lessor's name if fee lease 11-20-0603-0823	Field Dineh-bi-Keyah	Reservoir Lower Hermosa
Survey or Sec-Twp-Rge Sec. 29-32-T36N-R30E	County Apache	State Arizona
Operator Kerr-McGee Corporation		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street 215 Petroleum Center Bldg.	City Farmington	State New Mexico 87401
Above named operator authorizes (name of transporter) Kerr-McGee Pipeline Corporation Attention: Mr. A. R. Gockel		
Transporter's street address Kerr-McGee Building	City Oklahoma City	State Oklahoma 73102
Field address P. O. Box 989 - Farmington, New Mexico 87401		
<small>Oil, condensate, gas well gas, casinghead gas</small>		
To transport	100 % of the oil	from said lease.
OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:		
Name of gatherer	% transported	Product transported

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: *C. D. [Signature]*

Date approved: 7-21-67
 STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 By: *John W. [Signature]*
 Permit No. _____



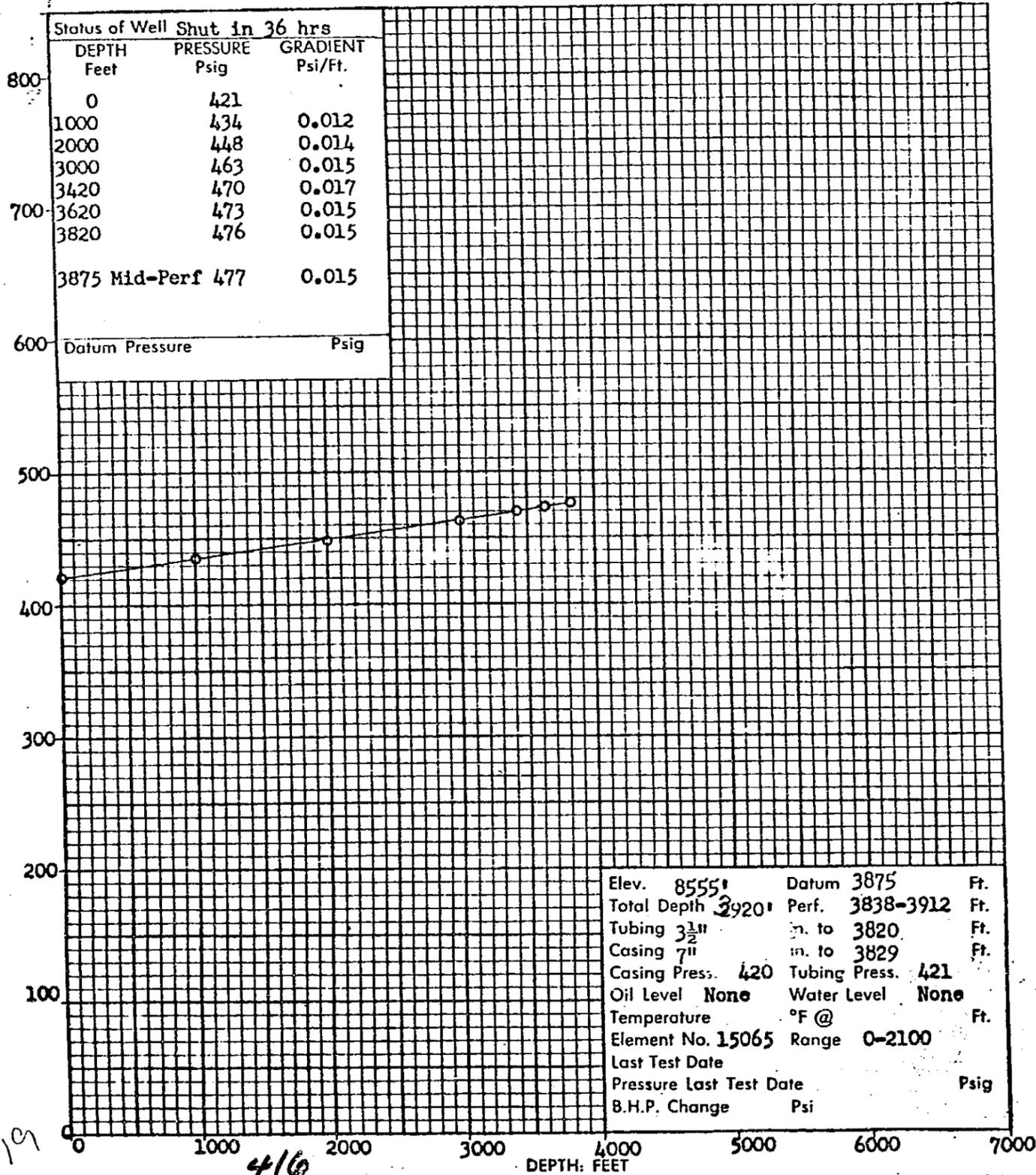
STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Operator's Certificate of Compliance & Authorization to
 Transport Oil or Gas from Lease
 File Two Copies
 Form No. 3

416



Page 1 of 1
File 2-2149-P

Company KERR-McGEE CORPORATION Lease NAVAJO Well No. 14
Field DINCH-BI-KEYAH County APACHE State ARIZONA
Formation LOWER HERMOSA Test Date JULY 8, 1967



UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRICATE
(Other instructions on reverse side)

Form approved
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

14-20-0603-8823

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME

NAVAJO

8. FARM OR LEASE NAME

NAVAJO

9. WELL NO.

NO. 14

10. WIRE AND POOL OR WILDCAT

Dineh-bi-Keyah

11. SEC. T. R. S. OR BLM. AND SURVEY OR AREA

Sec. 31, T36N, R30E

12. COUNTY OR PARISH

Apache

13. STATE

Arizona

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Kerr-McGee Corporation

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
2020' FNL & 2060' FWL, (SE NW)
Sec. 31, T36N, R30E, Apache Co., Arizona

14. PERMIT NO.
State No. 416

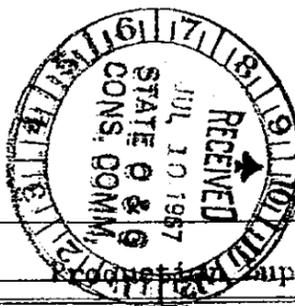
15. ELEVATIONS (Show whether DF, WT, GR, etc.)
8555' GR

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

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

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

Frac well in open hole pay zone from 3829'-3920' with 60,000 gallons of crude oil, 30,000# 10-20 sand, 3000# Adomite Mark II. Average Treating Pressure: 900 psi. Average Injection rate: 94 bbls per minute.



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

SIGNED: *P. D. Smith*

TITLE: Production Supt.

DATE: 7-7-67

(This space for Federal or State office use)

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

18 416

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Form approved.
Budget Bureau No. 42-R1424.

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME

NAVAJO

8. FARM OR LEASE NAME

NO. 14

9. WELL NO.

Hinah-bi-heyah

10. WIND AND POOL OR WILDCAT

Sec. 31, T36N, R30E

11. SEC. T. R. M. OR BLM AND SURVEY OR AREA

Apache

12. COUNTY OR PARISH

Arizona

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Kerr-McGee Corp.

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
**2020' FNL & 2060' FNL (SE NW)
Sec. 31, T36N, R30E, Apache Co., Arizona**

14. PERMIT NO.
State No. 416

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
8555' GR

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

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

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

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

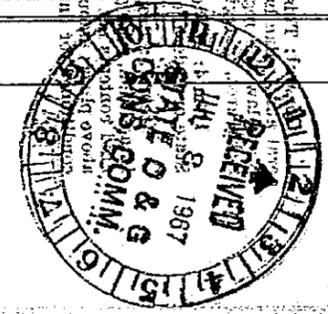
Drilled 8-3/4" hole to 3829'. Set 7" OD 20# J-55 ST&C casing at 3829' RKB. Cemented with 100 sxs 50-50 Pozmix followed by 50 sxs neat cement. WOC 21-3/4 hrs. Test casing and BOP to 1100psi for 30 minutes. Held OK. Drilled 6-1/4" hole to 3920' using air. Open hole pay zone from 3829' to 3920'.

18. I hereby certify that the foregoing is true and correct
SIGNED [Signature] TITLE **Prod. Supt.** DATE **7-3-67**

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

20 #416

*See Instructions on Reverse Side



6-28-67

Telecon from Mr. Bannister in Farmington, N.H.

Re: Kerr-McGee #4 Navajo

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

Kerr-McGee #5 Navajo

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

Kerr-McGee #6 Navajo

Spudded 5-27-67. Elevation 7697. TD 3635.
Completion rig on location at present time.
Tops: Coconino 1360
Hermosa limestone 3185
Intrusive 3650

← Kerr-McGee #8A Navajo

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

3824 per log *CSD*

Kerr-McGee #15 Navajo

Spudded 6-16-67
TD 3159. Moving in cable tool.
PSTD 3094. Tops: Coconino 795
Hermosa Limestone 2790
Intrusive 3155

466

31

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-0603-8823
2. NAME OF OPERATOR Kerr-McCee Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME HAVAJO
3. ADDRESS OF OPERATOR 215 Petroleum Center Bldg. Farmington, New Mexico 87401		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2020' FWL & 2060' FWL (SE NW) Sec. 31-T36N-R30E Apache County, Arizona		8. FARM OR LEASE NAME HAVAJO
14. PERMIT NO. State No. 416	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 8555' OR	9. WELL NO. NO. 14
		10. FIELD AND POOL, OR WILDCAT Dinah-di-Kayah
		11. SEC., T., R., M., OR BLM, AND SURVEY OR AREA Sec. 31-T36N-R30E GASRM
		12. COUNTY OR PARISH 13. STATE Apache Arizona

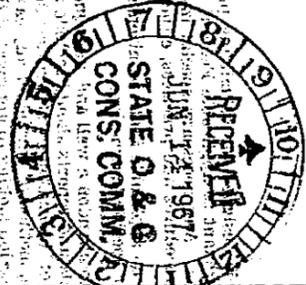
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

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

(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.)*

Spud at 1:00 am 6-10-67. Drilled 13-3/4" hole to 754' and set 9-5/8" CI 32.30#, H-40, STAC casing 754' RKB. Cemented with 600 lbs cement with 2% CaCl and 1/2# floccs/lb using the pump and plug method. Plug down at 12:35 am 6-11-67. Released press. Floats held OK. WOC 12 hrs. Test casing and BOP to 1150 psi for 30 minutes. Held OK. Drilling 8-3/4" hole below surface casing.



18. I hereby certify that the foregoing is true and correct
SIGNED [Signature] TITLE Production Supt. DATE 6-12-67
(This space for Federal or State office use)

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

*See Instructions on Reverse Side

27 416

2-Ariz.
 1-Tribe
 1-JIR
 1-King
 1-WFH
 1-RT

APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

APPLICATION TO DRILL

RE-ENTER OLD WELL

KERR-MCGEE CORPORATION
 NAME OF COMPANY OR OPERATOR

215 PETROLEUM CENTER BLDG. FARMINGTON, NEW MEXICO
 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 11-20-0603-8823 NAVAJO	Well number 11	Elevation (ground) 8555'
Nearest distance from proposed location to property or lease line: 2050 feet	Distance from proposed location to nearest drilling, completed or applied--for well on the same lease: 2231 feet	
Number of acres in lease: 2533	Number of wells on lease, including this well, completed in or drilling to this reservoir: 8	
If lease, purchased with one or more wells drilled, from whom purchased: NONE.		

Well location (give footage from section lines) 2020' FNL & 2060' FWL	Section--township--range or block and survey Sec. 31-T36N-R30E G&SRM	Dedication (Comply with Rule 105) NW/4 Sec. 31.
---	--	---

Field and reservoir (if wildcat, so state) DINEH-BI-KEYAH LOWER HERMOSA	County APACHE
---	-------------------------

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

Proposed depth: 4100'	Rotary or cable tools Rotary	Approx. date work will start 6-13-67
Bond Status Blanket Bond	Organization Report	Filing Fee of \$25.00
Amount	On file <input checked="" type="checkbox"/> Or attached	Attached Yes.

Remarks:
**New Well.
 Covered by Commission Order No. 21.**

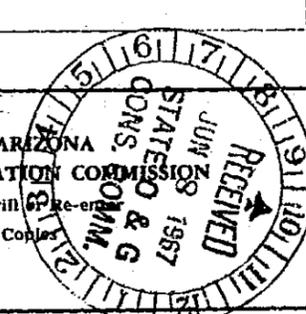
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Production Supt. of the Kerr-McGee Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein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

(Signature)
 Signature
 6-6-67
 Date

Permit Number: **416**
 Approval Date: **6-8-67**
 Approved By: *John Rannister*
 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



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 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
SEE ATTACHED	SURVEY PLAT.

CERTIFICATION

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

Name _____

Position _____

Company _____

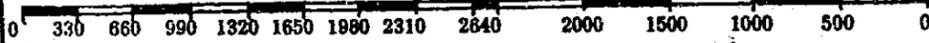
Date _____

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 _____

Registered Professional Engineer and/or Land Surveyor _____

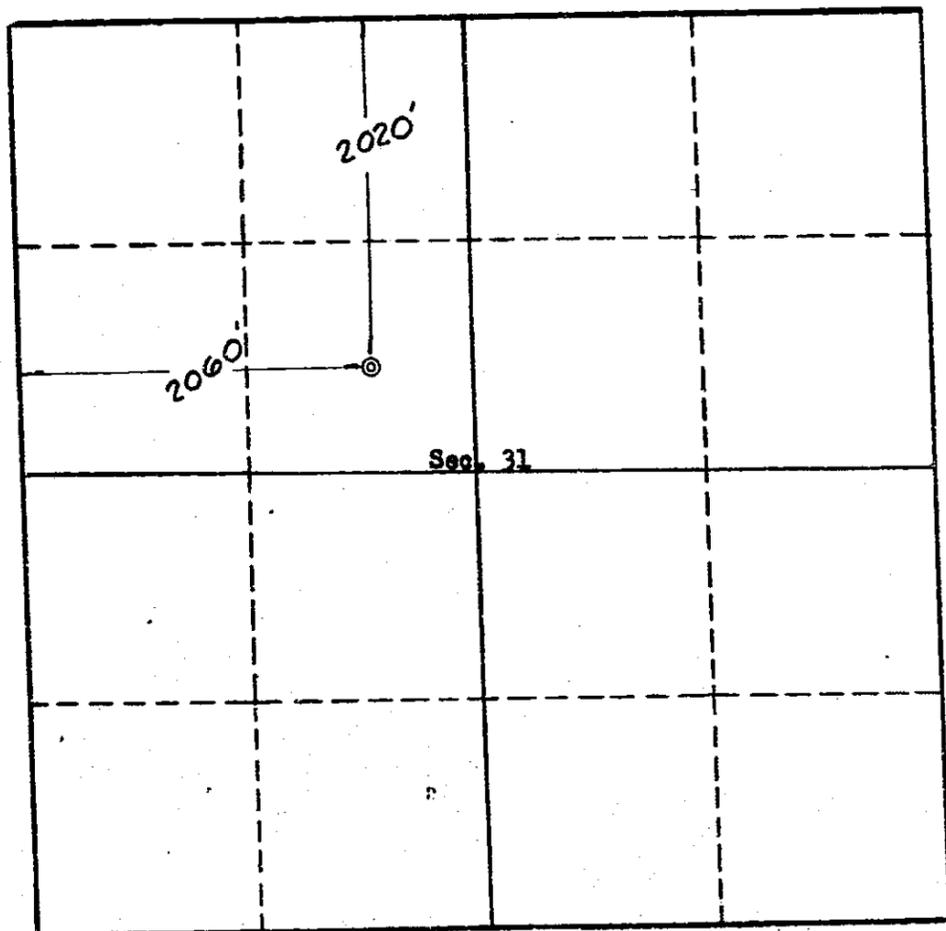
Certificate No. _____



PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
9-5/8" OD	32.30	H-40	0	780'	0-800'	Sufficient to Circulate.
7" OD	20/23	J-55	0	4100'	Sufficient to cover all potential productive zones.	

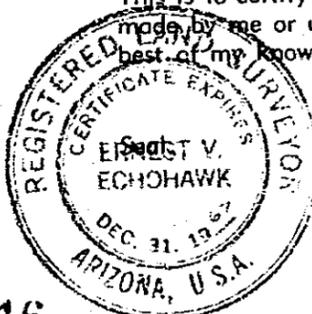
Company Kerr-McGee Corporation
Well Name & No. No. 14 Navajo
Location 2020 feet from the North line and 2060 feet from the West line.
Sec. 31, T. 36 N., R. 30 E., G. & S. R. M., County Apache, Arizona
Ground Elevation 8555 graded



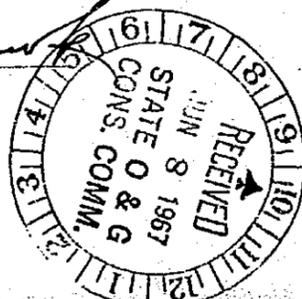
Scale, 1 inch = 1,000 feet

Surveyed May 16, 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.



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





PERMIT TO DRILL

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

To: **KERR-MC GEE CORPORATION**
(OPERATOR)

to drill a well to be known as

Kerr-McGee #14 Navajo
(WELL NAME)

located **2020' FNL - 2060' FWL**

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

The **NW/4** of said
Section, Township and Range is dedicated to this well.

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

Issued this **8th** day of **June**, 19 **67**.

OIL AND GAS CONSERVATION COMMISSION

By *John Bannister*
EXECUTIVE SECRETARY

PRIOR TO BEING ALLOWED TO PRODUCE THIS WELL
YOU MUST BE IN FULL COMPLIANCE WITH RULE
100, SECTION A PAR 6 (3-7-67), WITH RESPECT
TO THE PRODUCT TO BE PRODUCED.

PERMIT **Nº 416**

RECEIPT NO. **9508**

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

DINEH-BI-KEYAH FIELD

Operator: Mountain States Petroleum Corporation

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

Amount: \$325,000*

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

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

Permits covered by this bond posted with the BIA:

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



Jane Dee Hull
Governor

State of Arizona
Arizona Geological Survey

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



Larry D. Fellows
Director and State Geologist

December 1, 1997

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

4/16

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

Dear Ms. Roberts:

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

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

Please advise if we may be of further service.

Sincerely,

Steven L. Rauzi
Oil & Gas Program Administrator

Enclosure

Operator KERR-McGEE CORPORATION

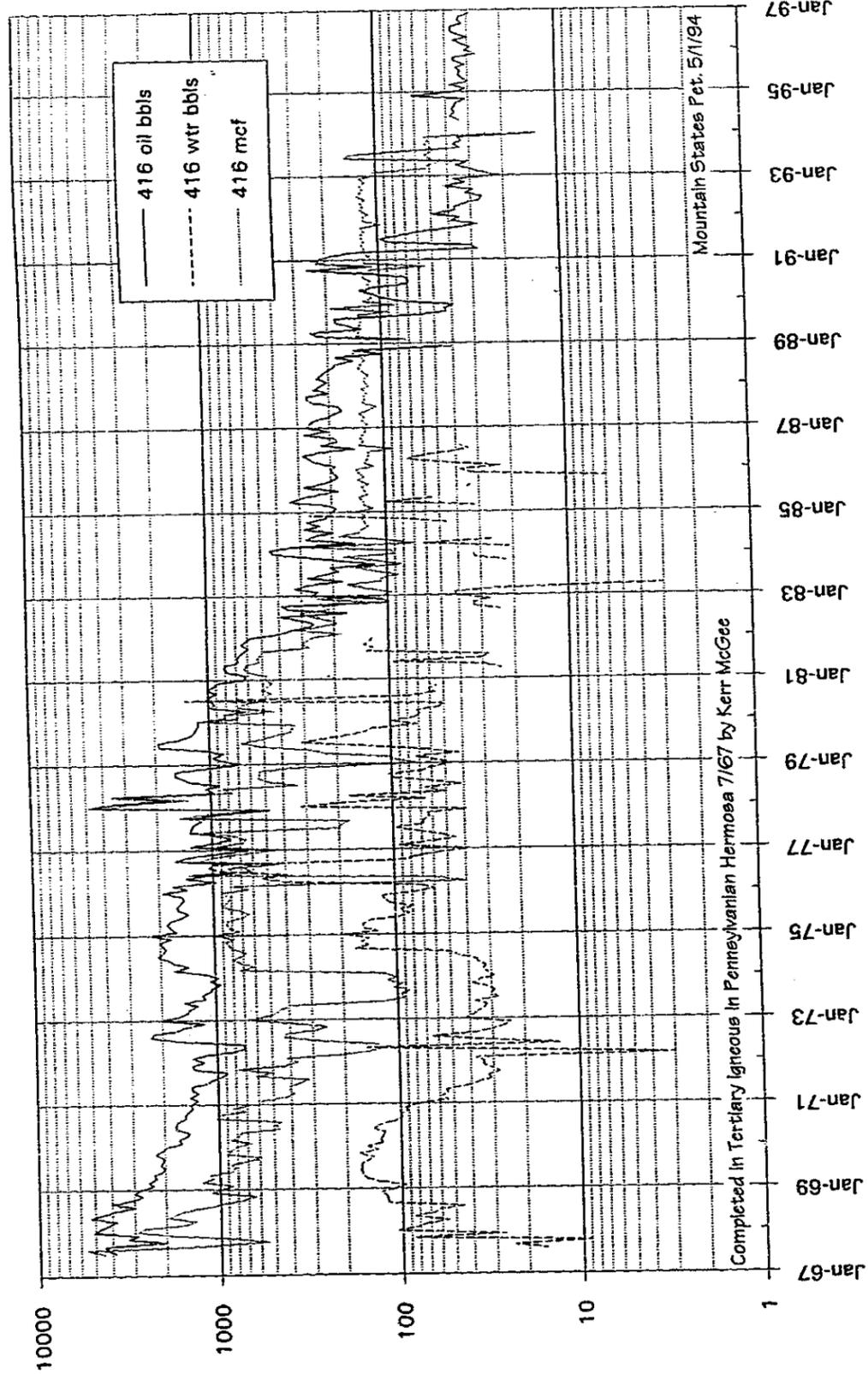
Bond Company SAFECO INSURANCE COMPANY OF AMERICA Amount \$25,000

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

ACTIVE DATE
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

MONTHLY PRODUCTION AT 14 NAVAJO (416), ARIZONA: JUL 1967 - DEC 1996
 se nw 31-36n-30e, Dineh-bi-Keyah Field, Apache County





Fife Symington
Governor

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



Larry D. Fellows
Director and State Geologist

June 8, 1994

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

Dear Ms. Burkhart:

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

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

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

Sincerely,

Steven L. Rauzi
Oil & Gas Program Administrator

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

CHANGES TO REPORTER INFORMATION

OLD INFORMATION:	
MMS OPERATOR CODE:	X 0 2 1 7
COMPANY NAME:	K E R R M C G E E C O R P O R A T I O N

NEW INFORMATION:	
MMS OPERATOR CODE:	X 0 2 7 4
COMPANY NAME:	M O U N T A I N S T A T E S P E T R O L E U M C O R P .
CONTACT NAME:	R U B Y W I C K E R S H A M
STREET ADDRESS:	2 1 3 E F O U R T H
CITY:	R O S W E L L
STATE:	N M
ZIP CODE:	8 8 2 0 1 -
PHONE:	5 0 5 6 2 3 - 7 1 8 4
AREA CODE:	

COMPLETE IF APPLICABLE:	
<input type="checkbox"/> 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 #14 (416)	JUN 5 1994
Dineh Bi Keyah Field - Apache County, Arizona	
Lease #: 14-20-0603-8823	API #: 020010527800S1 02-001-20040
COMMENTS: This property was sold to Mountain States Petroleum Corp. and they became operator effective May 1, 1994.	

SIGNATURE:	<i>Judy Burkhardt</i>
DATE:	5/13/94

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

P. O. BOX 1936

505 623-7184

MOUNTAIN STATES PETROLEUM CORPORATION

213 EAST FOURTH STREET
ROSWELL, NEW MEXICO
88202

June 6, 1994

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

**AZ OIL & GAS
CONSERVATION COMMISSION**

JUN 8 1994

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

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

Dear Sir;

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

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

Sincerely,

Judy Burkhart

Judy Burkhart,
Secretary

Enclosures

P. O. BOX 1936

505 623-7184

MOUNTAIN STATES PETROLEUM CORPORATION

213 EAST FOURTH STREET
ROSWELL, NEW MEXICO
88202

May 24, 1994

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

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

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

Dear Sir;

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

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

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

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

Sincerely,

Judy Burkhart

Judy Burkhart,
Secretary

Attachment

CONSERVATION COMMISSION

MAY 31 1994



KERR-MCGEE CORPORATION

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

RECEIVED
DEC 12 1983
O & G CONS. COMM.

OIL AND GAS DIVISION

PHONE
806 359-0351

December 8, 1983

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

Attn: Rudy Ybarra

Re: Form 25 for Kerr-McGee Corporation's
Navajo Lease, Wells #14, #25 and
#22. Located in Dineh Bi Keyah
Field, Apache County, Arizona

Mr. Ybarra:

Statewide Rule 115 of the Arizona Conservation Commission's rules and regulations governing oil, gas and helium production requires operators to report the chemical treatment of any well to the Commission on the prescribed form (Form 25).

In order to comply with Statewide Rule 115, Kerr-McGee is submitting Form 25, "Sundry Notices and Reports on Wells," for the Navajo #14, #22 and #25.

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

Sincerely,

Aaron Reyna
Engineering Assistant

Joe Stein
District Engineer
Southwest District - N. A.

AR/vt
Enclosure

Operator KERR MC GEE ~~OTT~~ ^{Corporation} INDUSTRIES INC.

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
10-19-73

CANCELLED

REPORT OF OIL SPILL

Kerr-McGee Corporation
P. O. Box 250
Amarillo, Texas 79189
(806)359-0351

FIELD DINEH-BI-KEYAH Apache COUNTY; Arizona (STATE)

COMPANY Kerr-McGee Corporation

LOCATION Navajo #14 Section 31, T-36N, R30

DATE 4/22/80 TIME 10:30 a.m.

AMOUNT OF OIL LOST 8-12 bbls TYPE Light crude

CAUSE OF INCIDENT Leaking union where #14 and #20 join the main gathering line .

CORRECTIVE ACTION TAKEN All wells feeding the leak were SI immediately. Bulldozers were brought to the location and a earth dam was constructed to trap the oil that could be seen and prevent it from leaving the area. A vacuum truck was brought to the location and all of the oil that could be seen was picked up. The union was tightened. A partial plug made up of scale and paraffin was located in the pipeline down the mountain creating high line pressures. The wells were left shut in until the plug was removed from the line on 4/23/80. Built collection pit 4-30-80 to catch oil running beneath snow.

INITIALLY BY Darrel Snook NOTIFIED AGENCY None - Due to heavy snow cover, the observed volume appeared to be less than the volumes required to report to notify anyone.
REPORT TO Bill Thomas REPORTED TO _____
TIME AND DATE 10:30 a.m. 4/22/80 TIME AND DATE _____

RECEIVED

SEP 23 1980

O & G CONS. COMM.

416



KERR-MCGEE CORPORATION

626 AMARILLO PETROLEUM BUILDING
P. O. BOX 250 • AMARILLO, TEXAS 79105-79157

RECEIVED

JAN 16 1978

O & G CONS. COMM.

PHONE
806 376-7256

January 10, 1978

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

Re: Kerr-McGee Corporation's Navajo No. 14
Workover, 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 well.

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

Sincerely,
KERR-MCGEE CORPORATION

Larry J. McRae
District Manager - Engineering
Southwest District - North America

LDM/LB/dj
Attachments (2)

WR



KERR-MCGEE CORPORATION

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

November 5, 1973

PHONE
806 376-7256

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 14 1973

O & G CON. COMM.

416

416



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/r1b

4/6

4/6



KERR-MCGEE CORPORATION

KERR-MCGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

215 Petroleum Center Building
Farmington, New Mexico 87401

October 2, 1967

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

Attention: Mr. John Bannister

Re: Well Completion Report
Navajo Well No. 14
SEW, Sec. 31, T36N, R30E
Dineh-bi-Keyah Field
Apache County, Arizona

Gentlemen:

Enclosed please find Arizona Commission Forms No. 4 and No. 6 for the Navajo Well No. 14. The delay in filing these forms is due to additional work on the well, which was anticipated and never performed. We were considering deepening the well through the remainder of the Intrusive formation, but now it appears that this work will not be done. This matter was discussed with Mr. Bannister several weeks ago.

If additional information is needed, please advise.

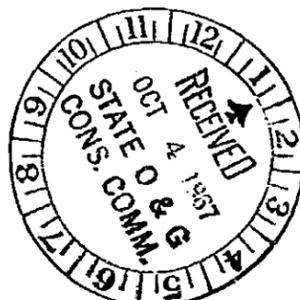
Very truly yours,

C. D. Williams
C. D. Williams
Production Superintendent

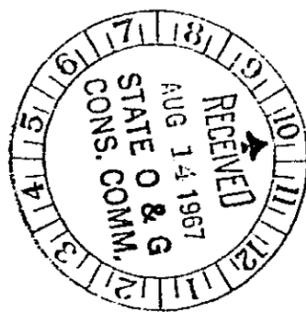
CDW:la

Enclosures (2)

416



copy ✓



August 11, 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 to the Four Corners Sample Cut Association the well cuttings on the following Apache County, Arizona, wells:

- ✓ Kerr-McGee #6 Navajo, 1950 FNL & 990 FEL, Sec.31-36N-30E, Elev. 8332 GL, 8345 KB. Spudded 5-27-67, Comp. 7-8-67, T.D. 3835'.
- ✓ Kerr-McGee #8 Navajo, 440 FSL & 690 FEL, Sec.29-36N-30E, Elev. 7164 GL, 7177 KB. Spudded 7-12-67, Comp. 7-29-67, T.D. 3660'.
- ✓ Kerr-McGee #14 Navajo, 2020 FNL & 2060 FWL, Sec.31-36N-30E, Elev. 8555 GL, 8568 KB. Spudded 6-10-67, Comp. 7-9-67, T.D. 3920'.
- ✓ Kerr-McGee #15 Navajo, 860 FSL & 1980 FWL, Sec.30-36N-30E, Elev. 7684 GL, 7697 KB. Spudded 6-15-67, T.D. 3229'.

Yours very truly,

KERR-MCGEE CORPORATION

R. W. King

R. W. King, Division Manager

RWK:sg

cc: John Bannister ✓
Arizona O&G Conservation Commission
Phoenix, Arizona

Henry F. Pohlmann
Navajo Tribe Minerals Dept.
Farmington, New Mexico

C
O
P
Y

416



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
 Dinah-bi-Keyah Field
 Apache County, Arizona

Dear John:

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

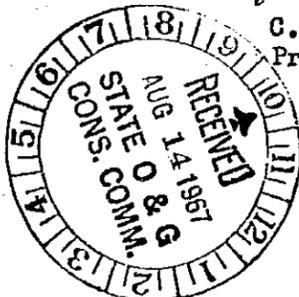
Navajo No. 1	-	SESW, Section 32, T36N, R30E
Navajo No. 2	-	SESW, Section 32, T36N, R30E
Navajo No. 3X	-	SESE, Section 32, T36N, R30E
Navajo No. 4	-	SENE, Section 32, T36N, R30E
Navajo No. 6	-	SENE, Section 31, T36N, R30E
Navajo No. 7	-	SESW, Section 29, T36N, R30E
Navajo No. 8	-	SESE, Section 29, T36N,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



CDW:la

CC: USGS - Farmington
 Navajo Tribe - Farmington

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.





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 Rott

C. D. Williams
 Production Superintendent



CDW:la

Enclosures

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KERR-MCGEE CORPORATION

KERR-MCGEE BUILDING - OKLAHOMA CITY, OKLAHOMA 73102

215 Petroleum Center Building

Farmington, New Mexico

June 13, 1967

State of Arizona
Oil & Gas Conservation Comm.
Room 208 - 1624 W. Adams
Phoenix, Arizona 85007

Attn: Mr. John Bannister,
Exec. Secretary

RE: Navajo Well #14
Navajo Well #15
Dineh-bi-Keyah Field
Apache Co., Arizona

Gentlemen:

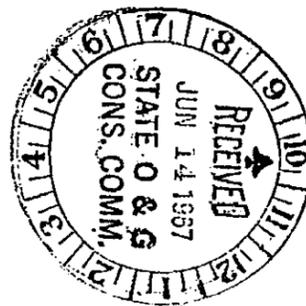
Reference is made to your letter of June 8, 1967 concerning the permits to drill the captioned wells. The drilling contractor for these wells will be Pico Drilling Company, 3800 Sunset Avenue, Farmington, New Mexico 87401. By an oversight I failed to request that information on these two wells be held confidential. It would be appreciated if your office would continue to hold the information on the wells, including these two, in the Dineh-bi-Keyah field confidential.

Very truly yours,
KERR-MCGEE CORPORATION

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

CDW/hs

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KERR-MCGEE CORPORATION

KERR-MCGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

215 Petroleum Center Building

Farmington, New Mexico

June 6, 1967

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

Attn: Mr. John Bannister,
Exec. Secretary

RE: Application For Permit To Drill
Navajo Well No. 14
Navajo Well No. 15
Dinah-bi-Keyah Field
Apache County, Arizona

Gentlemen:

Enclosed please find two copies each of Arizona O&GC Form No. 3 for the Kerr-McGee Navajo No. 14 located in SE NW Sec. 31, T36N, R30E, and the Kerr-McGee Navajo No. 15 located in SE SW Sec. 30, T36N, R30E, Apache County, Arizona. Also enclosed are two copies each of the Surveyor's plat for the location of the two wells. A draft for \$50.00 to cover the filing fees is included.

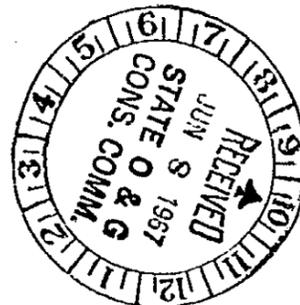
Your approval of this application is requested.

Sincerely yours,
KERR-MCGEE CORPORATION

C. D. Williams
Prod. Supt.

CDW/hs

Enclosures



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