

Release Date: 8-4-67

CONFIDENTIAL

P-W

HUMBLE *1 NAVAJO-138 388
SE NE 6-35N-30E Apache County

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

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

DESCRIPTION OF WELL AND LEASE

Operator: **Kerr-McGee Corporation** Address: **P.O. Box 250, Amarillo, Texas 79105**

Federal, State or Indian Lease Number or name of lessor if fee lease: **Navajo 14-20-0603-8876** Well Number: **/** Field & Reservoir: **Dineh-Bi-Keyah**

Location: **1,900' FNL and 800' FEL (SE NE)** County: **Apache**

Sec. TWP-Range or Block & Survey: **Section 6, T35N, R30E, G & SRM Survey**

Date spudded: **4-2-67** Date total depth reached: **4-23-67** Date completed, ready to produce: **P.B.T.D.** Elevation (DF, RKB, RT or Gr.) feet: **8,264' GR** Elevation of casing hd. flange feet: **8,266'**

Total depth: **4,280'** P.B.T.D.: **3,586'** 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: **3,342'-3,559'** Rotary tools used (Interval): **0-4,280'** Cable tools used (Interval): **None**

Was this well directionally drilled?: **No** Was directional survey made?: **No** Was copy of directional survey filed?: **No** Date filed: **5-2-67**

Type of electrical or other logs run (check logs filed with the commission): **IES & Sonic - Gamma Ray** Date filed: **5-2-67**

CASING RECORD

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Conductor	17 1/2"	16"	55	40'	50	None
Surface	15"	10 3/4"	32	537'	525	None
Production	9"	7"	20	3,665'	150	None

TUBING RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
3 1/2 OD in.	3,568 ft.	None ft.	None in.	ft.	ft.		

PERFORATION RECORD

Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval
3	0.45"	3,342-49', 3,358-76'	90,000 gals of Lease Crude & 90,000# of 10-20 Sand.	Same as Perfs
	0.55" Jets	3417-63', 3470-74'		
		3496-3536, 3547-59'		

INITIAL PRODUCTION

Date of first production after **WO** Producing method (Indicate if flowing, gas lift or pumping—if pumping, show size & type of pump): **Pumping 3" x 2" x 16'**

8-22-74

Date of test	Hrs. tested	Choke size	Oil prod. during test	Gas prod. during test	Water prod. during test	Oil gravity
8-23-74	24	--	340 bbls.	145 MCF	7 bbls.	42.7° API (Corr)

Tubing pressure	Casing pressure	Cal'd rate of Production per 24 hrs.	Oil	Gas	Water	Gas-oil ratio
--	---		340 bbls.	145 MCF	7 bbls.	426

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

Date: **August 26, 1974** Signature: **C.J. Breeden**

RECEIVED
AUG 28 1974

O & G CONS. COMM. STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Well Completion or Recompletion Report and Well Log
File One Copy

Permit No. **388** Form No. 4

(Complete 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 14-20-0603-8876 Navajo-138	Field Dineh-BI-Keyah	Reservoir Hermosa
Survey or Sec-Twp-Rge Sec 6-T35N-R30E	County Apache	State AZ
Operator Mountain States Petroleum Corp.		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street P O Bx 1936	City Roswell,	State New Mexico 88202
Above named operator authorizes (name of transporter) Giant Industries		
Transporter's street address P O Bx 12999	City Scottsdale,	State AZ
Field address P O Bx 256 (Bloomfield Hwy) Farmington, N M 87499		
Oil, condensate, gas well gas, casinghead gas		
To transport	100% of the	oil from said lease.
OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:		
Name of gatherer	% transported	Product transported
Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change. Change of Oper.		

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

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

Date Aug. 11, 1995 *Ruby Wickshaw*
Signature

Date approved: AUG 16 1995

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By: Steven L. Rainz

Permit No. 388

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

**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 14-20-0603-8876 Navajo 138		Field Dineh-Bi-Keyah	Reservoir Hermosa
Survey or Sec-Twp-Rge S 6 - T 35 N - R 30 E	County Apache	State Arizona	
Operator Kerr-McGee Corporation			
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:			
Street P. O. Box 250	City Amarillo	State Texas, 79189	
Above named operator authorizes (name of transporter) Gary Williams Energy			
Transporter's street address 370 17th St., Suite 5300	City Denver	State Colorado, 80202	
Field address P. O. Box 159, Bloomfield, NM 87413			
Oil, condensate, gas well gas, casinghead gas			
To transport	100 % of the Oil	from said lease.	
OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:			
Name of gatherer	% transported	Product transported	
Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change.			

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

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

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

GAS-OIL RATIO TEST REPORTS

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

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.

WA
SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Kerr-McGee Corporation
 2. Oil Well GAS Well OTHER (Specify) _____
 3. Well Name Navajo Tract 138 Well No. 1
 Location 1,900' FNL and 800' FEL (SE NE)
 Sec. 6 Twp. 35N Rge. 30E County Apache Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease Navajo 14-20-0603-8876
 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"/>	PULL OR ALTER CASING	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	DIRECTIONAL DRILL	<input type="checkbox"/>	FRACTURE TREATMENT	<input checked="" type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	PERFORATE CASING	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<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) <u>Reperforating</u>	<input checked="" type="checkbox"/>

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

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

8-8-74 Pulled rods and pump. Started to pull tubing and dropped tubing.
 8-9-74 Fished tubing. Laid down tubing. Cleaned out with sand pump to 3,578'.
 8-10-74 Reperforated following intervals with 2 HPF: 3,342'-3,349', 3,358'-3,376', 3,417'-3,463', 3,470'-3,474', 3,496'-3,536', 3,547'-3,559'. Fractured well with 90,000 gallons of lease crude and 90,000# of 10-20 sand. Pressures: Maximum 1,150 psi, Minimum 1,000 psi, Average 1,050 psi, ISDP 450 psi, on vacuum in 4 min. Average Injection Rate 69 BPM. Ran Differential Temperature Survey. Found sand @ 3,545'.
 8-11-74 Cleaned out 10' to 3,555' with sand pump.
 8-12-74 Cleaned out with sand pump to 3,586' by depthometer. Started running tubing.
 8-13-74 Finished running tubing. Ran pump and rods. Started pumping back load oil.
 8-23-74 All load oil recovered. Well pumped 340.06 BO, 6.94 BW and 145 MCF in 24 hrs. GOR 426, Gravity 42.7 degrees @ 60 degrees F.

RECEIVED

26 1974

O & G CONS. COMM.

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

Signed C.J. Breeden
 C.J. Breeden

Title Dist. Prod. Supt. Date 8-26-74

Permit No. 388

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
 File Two Copies
 Form No. 28

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Kerr-McGee Corporation
 2. Oil WELL GAS WELL OTHER (Specify) _____
 3. Well Name Navajo Tract 138 Well Number 1
 Location 1,900' FNL and 800' FEL (SE NE)
 Sec. 6 Twp. 35N Rge. 30E County Apache Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease. Navajo 14-20-0603-8876
 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"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input checked="" type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <input type="checkbox"/>	ABANDONMENT <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.)

Pull rods, pump and tubing. Clean out to 3,578' with sand pump. Reperforate present perforations which are as follows: 3,342' - 3,349', 3,358' - 3,376', 3,417' - 3,463', 3,470' - 3,474', 3,496' - 3,536', 3,547' - 3,559'. All of these were perforated with one (1) HPF. Will perforate an additional two (2) HPF when reperforating. Fracture with 90,000 gallons of lease crude and 90,000# of 10-20 sand. Run Differential Temperature Survey to determine frac entry. Clean out with sand pump to 3,578'. Run tubing, pump and rods. Place well on production.

Estimated starting date: August 12, 1974.

APPROVED

OIL & GAS CONSERVATION COMMISSION
STATE OF ARIZONA

By W.B. Allen
Date 8-1-74

RECEIVED

AUG 1 1974

O & G CONS. COMM.

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

Signed C. J. Breeden
C. J. Breeden

Title Dist. Prod. Supt. Date July 30, 1974

Permit No. 388

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

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.
14-20-0608-8876

6. IF INDIAN ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Navajo Tract 138

9. WELL NO.
1

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

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
Sec. 6, 35N, 30E, GSRM

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Kerr-McGee Corporation

3. ADDRESS OF OPERATOR
P. O. Box 250, Amarillo, Texas 79105

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
SE NE (1900' PNL and 800' FEL) of Section 6

14. PERMIT NO.
Arizona 1988

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
8,278' KB

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

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

(Other) **Change in Operator**

(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.)*

Effective January 1, 1973, operation of this well was transferred from Humble Oil and Refining Company to Kerr-McGee Corporation

RECEIVED
JAN 08 1973
O & G CONS. COMM.

18. I hereby certify that the foregoing is true and correct
SIGNED C. J. Breiden TITLE District Prod. Supt. DATE 1/8/73

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

*See Instructions on Reverse Side

OPERATOR'S CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL OR GAS FROM LEASE		
Navajo Tract 138		
Federal, State or Indian Lease Number, or lessor's name if fee lease	Field	Reservoir
14-20-0603-8878	Dineh-bi-Keyah	Lower Hermosa (Intrusion)
Survey or Sec-Twp-Rge	County	State
Sec 6, T35N, R30E, G&SRM	Apache	Arizona
Operator Kerr-McGee Corporation		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street	City	State
P. O. Box 250	Amarillo	Texas 79105
Above named operator authorizes (name of transporter) Kerr-McGee Pipeline Corp.		
Transporter's street address	City	State
Kerr-McGee Center	Oklahoma City	Oklahoma 73102
Field address P. O. Box 989, Farmington, New Mexico 87401		
Oil, condensate, gas well gas, casinghead gas		
To transport	% of the	from said lease.
100	Oil	
OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:		
Name of gatherer	% transported	Product transported
None		
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 in Operator: effective January 1, 1973, operator of this lease changed from Humble Oil & Refining Co. to Kerr-McGee Corporation.		

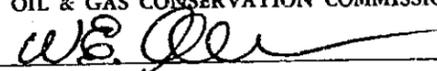
The undersigned certifies that the rules and regulations of the State of Arizona Oil & Gas Conservation Commission have been complied with in drilling and producing operations on this lease, except as noted above, and that the above transporter is authorized to transport the above specified percentage 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 District Manager of the Kerr-McGee Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

January 3, 1973
Date


Signature

Date approved: 1-8-73
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By: 

Permit No. 388

Arizona - 2
USGS - 2
HCH - 1
Tribe - 1

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JAN 10 1973

O & G Conservation 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. 5

WELL STATUS REPORT AND GAS-OIL RATIO TESTS

Operator: Humble Oil & Refining Company Well and Reservoir: Dineh bi Keyah Hermosa County: Apache
 Address: P. O. Box 120, Denver, Colo. 80201 Month: December, 1972

Federal, State or Indian Lease Number, or Lessor's Name if fee lease	Permit No.	Well No.	Date of Test	Sta- tua	Cholo Size	Pressure			Secura- tor	Squara- Tor	Daily Allow- able	Length of Test (Days)	Production During Test			Gas-Oil Ratio Cu. Ft. Per Bbl.
						Tub.	Begin- ning	End					Wtr. Dura.	Crav. Oil	Oil Dura.	
Navajo Tract 88 14-20-0603-8812	431	2	No GOR tests taken.													
	443	3														
Navajo Tract 138 14-20-0603-8876	388	1														
cc: Minerals Supervisor - Navajo Tribe R. M. Hinton, Box 1600, Midland																

All Tests Reported herein were made in accordance with the Applicable Rules, Regulations and Instructions of the State of Arizona Oil & Gas Conservation Commission

I, the undersigned, under the penalty of perjury, state that I am the DISTRICT Supt. of the Humble Oil & Refining 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.

12-28-72 Date
 RECEIVED
 JAN 03 1973
 O & G CONS. COMM.
 Signature: *[Signature]*

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Well Status Report and Gas-Oil Ratio Tests
 Form No. 5
 File One Copy



OFFICE OF
Oil and Gas Conservation Commission

STATE OF ARIZONA
4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271-5161

December 28, 1972

Memo from W. E. Allen, Director
Enforcement Section

Memo to Files:

Humble Oil & Ref. Navajo #138-1 Permit No. 388	Humble Oil & Ref. Navajo #88-1 Permit No. 421	Humble Oil & Ref. Navajo #88-2 Permit No. 431	Humble Oil & Ref. Navajo #88-3 Permit No. 443
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Joe Breeden, Kerr-McGee, called to advise that Kerr-McGee was taking over the operations of the subject wells as of January 1, 1973. They have purchased all of Humble's holdings within the Dineh Bi Keyah Field in Apache County.

Mr. Breeden was inquiring as to what the Commission would require as evidence that Kerr-McGee had assumed the operations of the Humble properties. I told him that we would need a letter from Humble or a copy of the instruments transferring ownership from Humble to Kerr-McGee. Since Kerr-McGee has a blanket bond covering all their operations within the State of Arizona, the bonding of the above wells will be no problem.

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-R1421

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. 14-20-0603-8876
2. NAME OF OPERATOR Humble Oil & Refining Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR P O Box 120, Denver, Colorado 80201		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SE NE (1900' FNL and 800' FEL) of Section 6		8. FARM OR LEASE NAME Navajo Tract 138
14. PERMIT NO. Arizona 388	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 8278' KB	9. WELL NO. 1
		10. FIELD AND FOOT, OR WILDCAT Dineh bi Keyah
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 6-35N-30E GSSRM
		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:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

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

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

7-5-72 - Treated well with 2100 gallons 15% HCl and 1500 gallons aromatic solvent. Displaced with 75 bbls water.
 7-6-72 to 7-10-72 - Recovering acid and solvent.
 7-10-72 - Squeezed in 55 gallons H-35 scale inhibitor, 50# RD-153 polymer and 1 sack CaCl. Followed with 125 bbls water.
 7-11-72 to 7-16-72 - Testing.
 7-17-72 - Produced 141 BO and 20 BW in 2 1/2 hrs. - Job complete.
 Production prior to job - 130 BO and 20 BW.

2cc - Arizona Oil & Gas Conservation Commission
 1cc - Minerals Supervisor - Navajo Tribe
 1cc - Midland

18. I hereby certify that the foregoing is true and correct
 SIGNED [Signature] TITLE District Superintendent DATE 7-19-72

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

RECEIVED
 JUL 19 1972
 O & G

*See instructions on Reverse Side
 #388

Form 9-321
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate
(Other instructions
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
14-20-0603-8876

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Navajo Tract 138

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Dineh bi Keyah

11. SEC., T., E., M., OR BLK. AND
SURVEY OR AREA
Sec. 6-35N-30E-G&SRM

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
Humble Oil & Refining Co.

3. ADDRESS OF OPERATOR
P. O. Box 120, Denver, Colorado 80201

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

SE NE (1900' FNL, 800' FEL) Sec. 6

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, CR, etc.)
Arizona 388 8278' RKB

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"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input checked="" type="checkbox"/>	ABANDON*	<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.)*

In an effort to increase production, we propose to treat well with 3600 gals. of acid and solvent, and squeeze formation with 55 gals. of organic phosphate to prevent scale deposition.

2cc - Arizona Oil & Gas Conservation Commission
1cc - Minerals Supervisor - Navajo Tribe
1cc - Midland

RECEIVED
JUN 26 1972
O & G CONS. COMM.

18. I hereby certify that the foregoing is true and correct
SIGNED J. Roy Dorrrough TITLE Dist. Supt. DATE June 21, 1972
(This space for Federal or State office use)
APPROVED BY [Signature] TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIP NOTE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
14-20-0603-8876

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Navajo Tract 138

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Dineh bi Keyah

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 6-35N-30E G&SRM

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
Humble Oil & Refining Company

3. ADDRESS OF OPERATOR
P. O. Box 120, Denver, Colorado 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
SE NE (1900' FNL, 800' FEL) Section 6

14. PERMIT NO. Arizona #388

15. ELEVATIONS (Show whether OF, RT, GR, etc.)
8278' RKB

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other)

FULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other)

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

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

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

5-18-71 - Pumped 800 gals. BJ 1-shot acid in annulus. Displaced to perfs with 125 bbls. produced water. Returned well to production for 48 hrs.
5-21-71 - Pumped in 55 gals. Baroid Surflo H-35 scale inhibitor plus 50# Baroid Surflo RD-153 polymer mixed in 20 barrels fresh water down annulus and displaced with 250 barrels produced water. SI overnight. Returned well to production.

Currently producing at rate of 201 BOPD. Production prior to workover 200 BOPD.

cc: 2 - Arizona Oil & Gas Conservation Commission
1 - Minerals Supervisor - Navajo Tribe
1 - Midland

RECEIVED
JUN 14 1971
O & G CONS. COMM.

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

SIGNED [Signature] TITLE District Chief Engineer DATE 6-9-71

(This space for Federal or State office use)

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

Form 9-521
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Form approved.
Budget Bureau No. 42-R1424

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
Humble Oil & Refining Company

3. ADDRESS OF OPERATOR
P. O. Box 120, Denver, Colorado 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
SE NE (1900' FNL, 800' FEL) Section 6

5. LEASE DESIGNATION AND SERIAL NO.
14-20-0603-8876

6. INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Navajo Tract 138

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Dineh bi Keyah

11. SEC., T., E., M., OR BEE, AND SURVEY OR AREA
Sec. 6-35N-30E-C&SRM

12. COUNTY OR PARISH OR STATE
Apache Arizona

14. PERMIT NO.
Arizona 5388

15. ELEVATIONS (Show whether DF, BT, CS, etc.)
8278' RKB

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"/>
FRAC TURE TREAT	<input type="checkbox"/>	FRAC TURE 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"/>		

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

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

We propose to treat this well with an 800-gallon solvent-acid wash to clean the formation face and to squeeze the formation with 500 gallons of scale inhibitor to maintain productivity.

RECEIVED
MAY 13 1971
O & G CONS. COMM.

cc: 2-Arizona Oil & Gas Conservation Commission
1-Minerals Supervisor-Navajo Tribe

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

SIGNED Roy D. Dorr TITLE Dist. Supt. DATE May 10, 1971

(This space for Federal or State use)

APPROVED BY [Signature] TITLE _____ DATE 5-13-71

CONDITIONS OF APPROVAL, IF ANY:

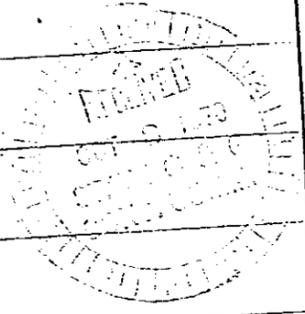
*See Instructions on Reverse Side

RESERVOIR PRESSURE REPORT

Operator Humble Oil & Refining Company
Address Box 120, Denver, Colorado 80201
Date 10-5-70
Field Dineh bi Keyah
County Apache
Gas Gravity .005
Initial Completion* _____
Special* _____
General Survey* X
Datum Plane 74500'
Datum _____
Pressure At Datum _____

Well Name	Producing Formation	Oil Gradient	Water Gradient		Bomb Test Data			Sonic Instrument Test Data		Pressure At Datum						
			Date Tested	Oil Gas (g)	Shut-in Tubing Pressure	Test Depth	B.H. Temp.	Observed Pressure	Prod. Test (Bbls per Day)		Liquid Level	Liquid Gradient	Wt. of Liquid Column	Wt. of Gas Column	Casing Pressure	
Navajo Tract 138	Igneous Sill	0.35	9-26-70	Oil	Prod				234	20	3382'	0.35	24	17	30	71
			9-27-70		12	78						3367	0.35	29	17	78

* Pressures shown were measured at depth of 3450' (74816' elevation) opposite the well's perforations. Extrapolation down to datum of 74500' using the oil gradient equates to a static pressure of 236 psi.



* Designate type of report by "X".
 I, the undersigned, under the penalty of perjury, state that I am the Dist. Supt. of the
Humble Oil & Refining 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.


 J. Roy Dorrrough

October 5, 1970
 Date

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

39A

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Form approved
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
14-20-0603-8876

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
-

8. FARM OR LEASE NAME
Navajo Tract 138

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Dinah bi Keyah

11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA
Sec. 6-35N-30E - G45PM

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
Humble Oil & Refining Company

3. ADDRESS OF OPERATOR
P. O. Box 120, Denver, Colorado 80201

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

SE NE (1900' PNL & 800' FEL) of Sec. 6

14. PERMIT NO.
Arizona #388

15. ELEVATIONS (Show whether DP, RT, GR, etc.)
8,278' RKB

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZING
REPAIR WELL
(Other)

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other)

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

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

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

Pumped in 3000 gals. acid with 1000 gals. aromatic solvent followed with 95 bbls. produced water. All fluid went in on vacuum. Shut in well for 30 mins. and returned to production. Recovered all fluids from treatment.

Pumped in annulus, 20 bbls. water mixed with 50 gals. of Baroid E-35 plus 50% of Polymer followed with 195 bbls. of produced water. Shut in overnight and then put on production. Job complete 8-21-70.

Tested on 8-29-70 at rate of 255 BO & 20 MFPD. Production prior to treatment was 251 BO & 10 MFPD.



cc: 2 - Arizona Oil & Gas Conservation Commission
1 - Minerals Supervisor - Navajo Tribe

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

SIGNED J. Roy Harrouck TITLE Dist. Supt. DATE 9-30-70
(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

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. **14-20-0603-8876**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
-

8. FARM OR LEASE NAME
Navajo Tract 138

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Dineh bi Kayah

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 6-35N-30E - GASIN

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Esule Oil & Refining Company

3. ADDRESS OF OPERATOR
P. O. Box 120, Denver, Colorado 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
SE NE (1900' FHL & 800' FEL) of Section 6

14. PERMIT NO.
Arizona #388

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
8,278' RKB

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input 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"/>		

(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.)

In an effort to increase productivity of this well we propose to treat with 4,000 gals. of inhibited HJ "one shot" acid (1,000 gals. of Aromatic solvent and 3,000 gals. of 15% HCl acid) down annulus. Displace with 95 bbls. of produced water. Let soak for 30 minutes and return to production. After load and acid are recovered pump in 50 gals. of Baroid Surflo H-35 scale inhibitor and 50¢ of Baroid MD 153 polymer mixed with 20 bbls of fresh water. Displaced with 195 bbls of water and leave shut in overnight. Return well to production.



cc: 2 - Arizona Oil & Gas Conservation Commission
1 - Minerals Supervisor - Navajo Tribe

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

SIGNED _____ TITLE **Dist. Supt.** DATE **7-30-70**

(This space for Federal or State use)

APPROVED BY John Banerity TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY: By [Signature]

*See Instructions on Reverse Side

RESERVOIR PRESSURE REPORT

Operator: Humble Oil & Refining Company
 Address: Box 120, Denver, Colorado 80201
 Date: 9-24-69
 Field: Dineh bi Keyah
 County: Apache
 Producing Formation: Pliocene Sill
 Oil Gradient: 0.340
 Water Gradient: 0.435
 Initial Completion: X
 Special: X
 General Survey: Datum Plane 74500' Gas Gravity N.A.

Well Name	Perforation	Well No.	Oil (G)	Date Tested	Shut-In Tubing Pressure	Bomb Test Data		Prod. Test (Bbls per Day)		Sonic Instrument Test Data				Pressure At Datum
						Test Depth	B.H. Temp.	Oil	Water	Liquid Level	Liquid Gradient	Wt. of Liquid Column	Wt. of Gas Column	
Navajo Tract 138		1	0	9-9-69	4	74816'	NA							199
Navajo Tract 88		431 2	0	9-11-69	0	74512'	NA							96



388

* Designate type of report by "X".

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the District Superintendent of the Humble Oil & Refining 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.

September 24, 1969
 Date
 Signature: J. Roy Dorrough
 Form No. 7

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Reservoir Pressure Report
 File One Copy

DINEH-BI-KEYAH

BHP Data 1973

#1 Pressures calculated at 2,918', datum of +4500' is at 3,073'. Difference is 155' at 0.35 PSI/ft or 54 PSI

$$152 + 54 = 206 \text{ PSI at Datum}$$

#2 Pressures calculated at 3,087', datum of +4500' is at 3,095'. Difference is 8' at 0.35 PSI/ft or 3 PSI

$$73 + 3 = 76 \text{ PSI at Datum}$$

#9 Pressures calculated at 3,440', datum of +4500' is at 3,378'. Difference is -62' at 0.35 PSI/ft or -22 PSI

$$116 - 22 = 94 \text{ PSI at Datum}$$

#138
-1

Pressures calculated at 3,451', datum of +4500' is at 3,766'. Difference is 315' at 0.35 PSI/ft or 110 PSI

$$183 + 110 = 293 \text{ PSI at Datum}$$

RECEIVED

AUG 06 1973

O & G CONS. COMM.

388

RESERVOIR PRESSURE REPORT

Operator: **Kerr-McGee Corporation** Address: **P. O. Box 250, Amarillo, Texas 79105** Date: **8-6-73**

Field: **Dineh-bi-Keyah** County: **Apache** Special: _____

Producing Formation: **Hermosa** Oil Gradient: **0.350** Water Gradient: _____ Initial Completion: _____ Sonic Instrument Test Data: _____ Datum Plane: **+4500** Gas Gravity: **0.005**

Well Name	P P P	G G G	Date Tested	Bomb Test Data		Shut-in Pressure	Test Depth	B.H.L. Temp.	Observed Pressure	Prod. Test (Bbls per Day)		Liquid Level	Sonic Instrument Test Data		Casing Pressure	Pressure At Datum *
				Oil	Water					Liquid Gradient	Wt. of Liquid Column		Wt. of Gas Column			
Navajo	377	1 0	7-12-73	12						113	3				206	
Navajo	379	2 0	7-12-73	12						450	61				76	
Navajo	396	9 0	7-12-73	12						190	64				94	
Navajo Tract 138	388	1 0	7-10-73	12						110	15				293	

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

RECEIVED
AUG 6 1973
O & G CONS. COMM.

• Designate type of report by "x".

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

Signature: *C. J. Breeden*
C. J. Breeden

Date: August 6, 1973
388

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Reservoir Pressure Report
Form No. 1

TEFTELLER, INC.
RESERVOIR ENGINEERING DATA
Midland, Texas

Page 10 of 12

File 2-5185=FL

Well : NAVAJO NO. 138-1

Field : DINEH BI KEYAH

TEST DATA

1973 Date	Status of Well	Time	Elapsed Time Hrs.Min.	Joints To Fluid	Feet To Fluid	Feet Of Fluid To Mid Pay	Oil Column Psi @ 350/Ft.	Gas Column Psi @ .005/Ft.	Casing Pressure Psig	BHP Psig
7-10	Pumping	07:45	0 00	108	3291	160	56	16	0	72
"	Shut in	08:00	0 30	111	3382	69	24	17	27	44
"	"	08:30	1 00	113.5	3458	-7	-2	17	42	57
"	"	09:00	1 30	113.5	3458	-7	-2	17	52	67
"	"	09:30	2 00	113.5	3458	-7	-2	17	56	71
"	"	10:00	2 30	113.5	3458	-7	-2	17	59	74
"	"	10:30	3 00	113.5	3458	-7	-2	17	60	75
"	"	11:00	3 30	113.5	3458	-7	-2	17	61	76
"	"	11:30	4 00	113.5	3458	-7	-2	17	63	78
"	"	12:00	5 00	113.5	3458	-7	-2	17	65	80
"	"	13:00	6 00	113.5	3458	-7	-2	17	67	82
"	"	14:00	7 00	113.5	3458	-7	-2	17	69	84
"	"	15:00	8 00	113.5	3458	-7	-2	17	72	87
"	"	16:00	10 00	113.5	3458	-7	-2	17	72	87
"	"	18:00	12 00	113.5	3458	-7	-2	17	72	87
"	"	20:00								

Average Tubing Length 30.47
Oil Gradient .350 psi per ft.
Gas Gradient .005 " " "

Total Oil Production to Test Date 778,735
Total Water Production to Test Date 27,687

Daily Rate 110 BOPD
Daily Rate 15 BWPD

NO. 340R-L310 DIETZGEN GRAPH PAPER
SEMI-LOGARITHMIC
3 CYCLES X 10 DIVISIONS PER INCH

EUGENE DIETZGEN CO.
MADE IN U. S. A.

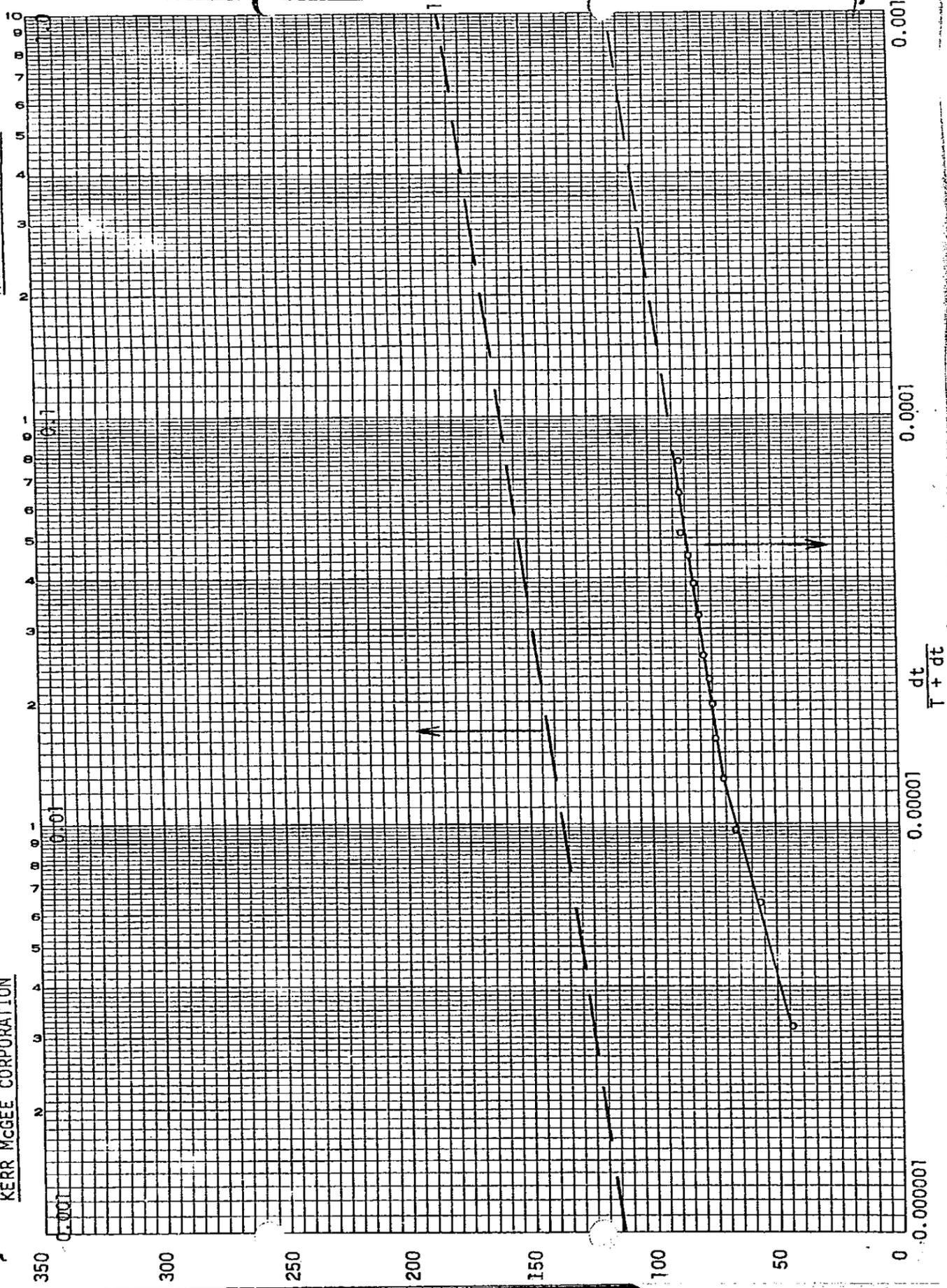
KERR MCGEE CORPORATION

NAVAJO NO. 138-1

Page 11 of 12

183#

388



TEFTELLER, INC.
RESERVOIR ENGINEERING DATA
Midland, Texas

Well : NAVAJO NO. 138-1 Page 12 of 12
Field : DINEH BI KEYAH File 2-5185-FL

DIMENSIONLESS TIME DATA

1973 Date	Elapsed Time Hours	T + dt	dt T + dt	Pressure @ 3451' Psig
7-10	0.5	154,833.5	0.000032	44
"	1.0	154,834.0	0.000064	57
"	1.5	154,834.5	0.000096	67
"	2.0	154,835.0	0.000129	71
"	2.5	154,835.5	0.000161	74
"	3.0	154,836.0	0.000193	75
"	3.5	154,836.5	0.000226	76
"	4.0	154,837.0	0.000258	78
"	5.0	154,838.0	0.000322	80
"	6.0	154,839.0	0.000387	82
"	7.0	154,840.0	0.000452	84
"	8.0	154,841.0	0.000516	87
"	10.0	154,843.0	0.000645	87
"	12.0	154,845.0	0.000774	87

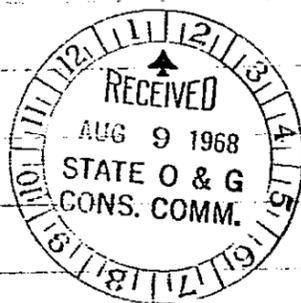
Cumm. 806,422 Bbls Fluid
Rate 125 B/D
T + 154,833.0

388

L. J. W.
8-2-68

DINCH Bi-KEMAL Field
Pressure buildup on 138 #1

Compressor Production @ 7-12-68 = 325,175 bbl/d
Avg flow rate prior 72 hr = 585 bopd



Downer Time $T_H = \frac{325,175}{585} \times 24 = 13340$ hrs.

After-Flow Check: (Between 5+6 hrs. S.F.)

$$q_{af} = \frac{24 \times \Delta p_w}{B \times \Delta \rho}$$

Csp. 7° 20'

Tubing 3 1/2" O.D.

$$L = \frac{\text{wellbore capacity (bbl/ft)}}{\text{gradient (psi/ft)}}$$

$$\text{Wellbore capacity} = 0.0376 \frac{\text{bbl}}{\text{ft}}$$

$$L = \frac{0.0376 \text{ bbl/ft}}{0.345 \text{ psi/ft}} = 0.109 \text{ bbl/psi}$$

$$B = \text{Formation Volume Factor} = 1.045 \text{ (Est. 300 psi)}$$

$$\therefore q_{af} = \frac{24 \text{ hr} \times 0.109 \frac{\text{bbl}}{\text{psi}} \times 2 \text{ psi}}{1.045 \frac{\text{bbl}}{\text{STB}} \times 1 \text{ hr}} = \frac{5.23}{1.045} = 5.0 \text{ bbl/day}$$

$$\frac{q_{af}}{q} = \frac{5}{585} < 1\% \quad \text{OK.} \quad \therefore \text{After-flow effects have diminished}$$

Determination of STATIC DRAINAGE AREA pressure, \bar{p}

$$\bar{p} = \frac{p^* - m \cdot f_{it}}{2.303}$$

where p^* is the extrapolated middle time region on the p_w vs. $\log \frac{p_w - p_{wf}}{p_w - p^*}$ plot (psi)

m = slope of middle time straight line (psi/cycle)

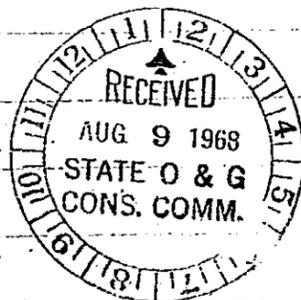
f_{it} = pressure correction factor - function of $T_H/4BA$

$$T_H / 4RA = 13,344 / (4)(5.06 \times 10^{-2})(6.97 \times 10^4) = 0.95$$

Using a square drainage area

$$F_{nf} = 3.4 \text{ when } T_H / 4RA = 0.95$$

$$\bar{p} = 335 \text{ psig} - \frac{(30)(3.4)}{2.303} = 335 - 44 = 291 \text{ psig}$$
$$= \underline{\underline{300 \text{ psia}}}$$



TEFTELLER, INC.
RESERVOIR ENGINEERING DATA
Midland, Texas

Test date 7-13-68

Well : NAVAJO TRACT 138 NO. 1

Page 1 of 3

Field : DINEH BI KEYAH

File 2-2657-BU

CHRONOLOGICAL PRESSURE AND PRODUCTION DATA

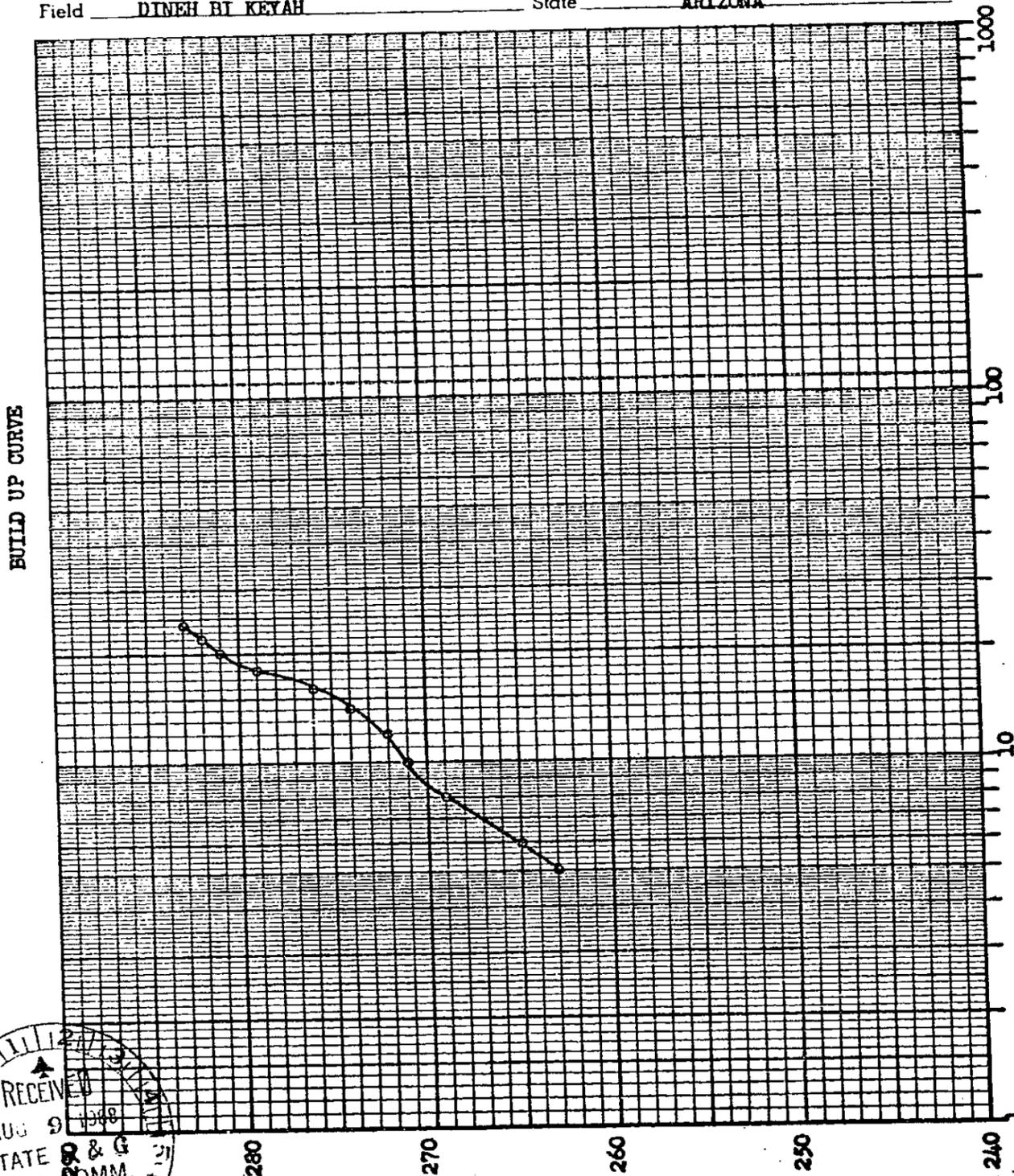
1968 Date	Status of Well	Time	Elapsed Time		Wellhead Pressure		BHP @ 3540'	BHP @ 3766'
			Hrs.	Min.	Tbg	Csg	Psig	Psig
7-12	Well shut in - rods & pump pulled	06:00						
"	Inst. @ 3540'	11:00	5	00	0		185	263
"	"	12:00	6	00			187	265
"	"	14:00	8	00			191	269
"	"	16:00	10	00			193	271
"	"	18:00	12	00			194	272
"	"	20:00	14	00			196	274
"	"	22:00	16	00			198	276
7-13	"	00:00	18	00			201	279
"	"	02:00	20	00			203	281
"	"	04:00	22	00			204	282
"	Inst. off btm	06:00	24	00	6		205	283





Page 2 of 3
File 2-2657-BU

Company HUMBLE OIL & REFINING COMPANY Formation HERMOSA
Well NAVAJO TRACT 138 NO. 1 County APACHE
Field DINEH BI KEYAH State ARIZONA

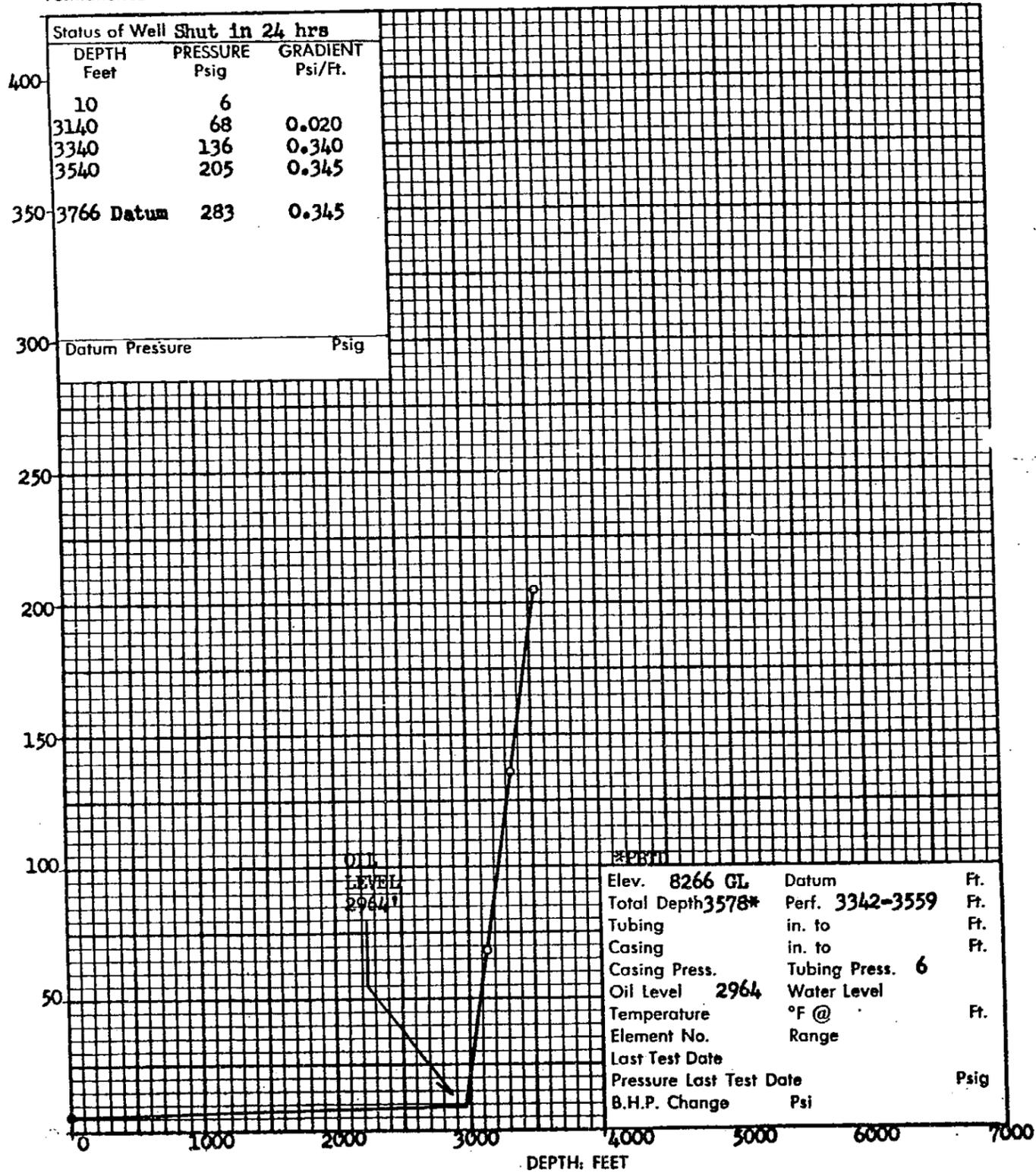


PRESSURE : PSIG @ 3766 FEET



Page 3 of 3
File 2-2657-BU

Company HUMBLE OIL & REFINING COMPANY Lease NAVAJO TRACT 138 Well No. 1
Field DINEH BI KEYAH County APACHE State ARIZONA
Formation HERMOSA Test Date JULY 13, 1968



PRESSURE POUNDS PER SQUARE INCH GAUGE

DEPTH: FEET

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

August 11, 1967

Humble Oil & Refining Company
P. O. Box 120
Denver, Colorado

Attention: Mr. Elston Sanders

Subject: Special Core Analysis Study
Navajo Tract 138-1 Well #388
Apache County, Arizona
Our File Number: SCAL-6785A

Gentlemen:

This report presents the results of formation factor measurements performed on samples of formation recovered from the subject well. The cores on which these tests were made are identified as to depth on page one and lithologically described on page two.

The formation factors, tabulated on page three, are comparatively low in relation to the porosity range represented by these samples. Visual examination of these cores, under a binocular microscope, indicated the formation to be igneous in origin. Rocks of this type frequently contain a wide variety of minerals. It is considered possible that the low resistivity measurements may be a reflection of the mineral content.

A plot of the formation factors versus porosity is given on page four. Due to the scatter of the data, a definite trend of formation factors with porosity is not indicated. Consequently, the correlation shown was prepared assuming an intercept of 1.0 as proposed by Archie.

In preparation for this study, a cylindrical plug, one and one-half inches in diameter, was drilled from each of the core samples submitted. These plugs were extracted, leached and dried. Their porosities and air permeabilities were measured.

388

Humble Oil & Refining Company
Navajo Tract 138-1 Well

Page Two

These plugs were evacuated and pressure saturated with brine having a sodium chloride content of 2700 parts per million. Electrical resistivities of both the brine and the brine-saturated samples were measured. These measurements were made periodically. Stabilized results were obtained in about six days.

Thank you for this opportunity to be of service.

Very truly yours,

Core Laboratories, Inc.

Dare K. Keelan (Signature)

Dare K. Keelan, Supervisor
Special Core Analysis Laboratory

DKK:CWM:ba

7 cc. - Addressee

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SPECIAL CORE ANALYSIS STUDY
FOR
HUMBLE OIL & REFINING COMPANY
#308
NAVAJO TRACT 138-1 WELL
APACHE COUNTY, ARIZONA
6-35N-30E SE NE

308



CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

11388

Page 1 of 4
File SCAL-6785A

Company Humble Oil & Refining Company Formation _____
Number of Wells One County Apache
Field D-B-K 6-35N-30E State Arizona

Identification of Samples

Sample Number	Company	Well	Depth, Feet
1	Humble Oil & Refining Company	Navajo Tract 138-1	3369
2			3374
3			3451
4			3366
5			3333
6			3436
7			3356
8			3469

394

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

1388

Page 2 of 4

File SCAL-6785A

Lithological Description

<u>Sample Number</u>	<u>Description</u>
1	Syenite, med gry, phaneritic, w/scattered 1 - 4 mm diameter vugs, hd
2	Syenite, light gry, phaneritic, w/scattered 1 - 4 mm diameter vugs, hd
3	Syenite, dk gry, phaneritic, w/scattered 1 - 5 mm diameter vugs, hd
4	Syenite, light gry, phaneritic, w/scattered 1 - 2 mm diameter vugs, hd
5	Syenite, light gry, phaneritic, w/scattered pp vugs, hd
6	Syenite, med gry, phaneritic, w/scattered pp - 5 mm diameter vugs, hd
7	Syenite, med gry, phaneritic, w/few scattered pp vugs, hd
8	Syenite, light gry, phaneritic, w/few scattered pp vugs, hd

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

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Page 3 of 4

File SCAL-6785A

Formation Factor Data

Resistivity of Saturating Brine, Ohm-Meters: 1.856 @ 71° F.

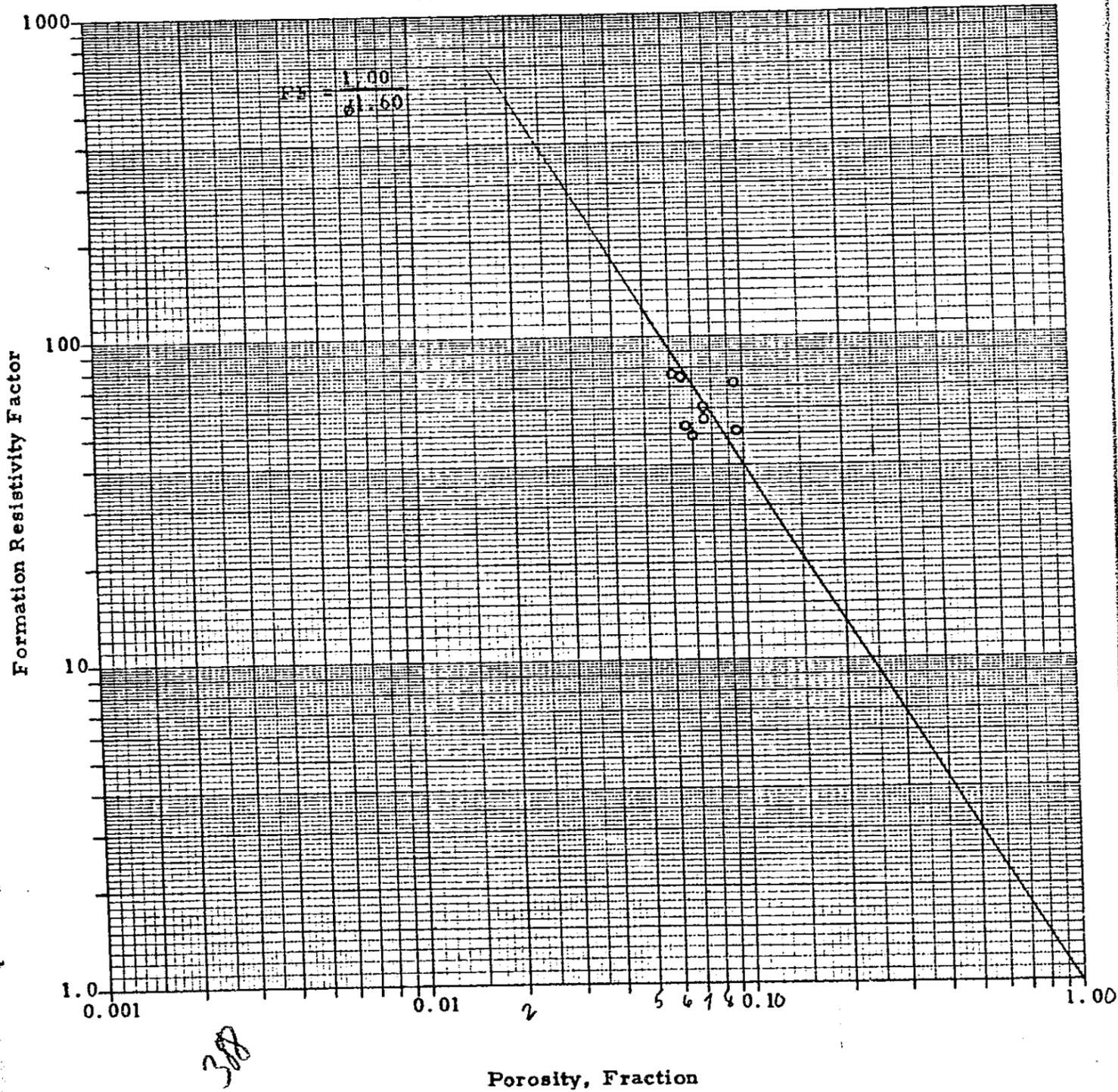
<u>Sample Number</u>	<u>Porosity, Per Cent</u>	<u>Formation Factor</u>
1	9.5	50.9
2	9.4	72.0
3	8.5	55.6
4	7.5	60.2
5	7.0	49.8
6	6.7	53.0
7	6.5	75.4
8	6.1	76.4

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

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Page 4 of 4
File SCAL-6785A

Company Humble Oil & Refining Company Formation _____
Well Navajo Tract 138-1 County Apache
Field _____ State Arizona



**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 Navajo Tract 138 - 14-20-0603-8876	Field Dineh bi Keyah	Reservoir Miocene Sill
Survey or Sec-Twp-Rge Sec. 6-35N-30E - G&SRM	County Apache	State Arizona
Operator Humble Oil & Refining Company		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street P. O. Box 120	City Denver	State Colorado 80201
Above named operator authorizes (name of transporter) Kerr-McGee Pipe Line Corporation		
Transporter's street address Kerr-McGee Building	City Oklahoma City	State Oklahoma 73102
Field address P. O. Box 989, Farmington, New Mexico 87401		
Oil, condensate, gas well gas, casinghead gas		
To transport	100 % of the	Oil from said lease.
OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:		
Name of gatherer	% transported	Product transported
None		

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 Dist. Supt. of the Humble Oil & Refining Company (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 August 7, 1967

Signature J. Roy Dorrough by J.R.D.
 J. Roy Dorrough

Date approved: Aug 9, 1967
 STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 By: John Kannerster
 Permit No. 388



cc: Mr. Henry F. Pohlmann, Minerals Supr.
 Navajo Tribe

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

RESERVOIR PRESSURE REPORT

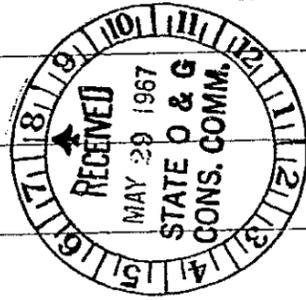
Operator: Humble Oil & Refining Company
 Field: Apache
 Address: P. O. Box 120, Denver, Colorado 80201
 Date: 5-26-67
 County: Apache
 Special: NA
 Gas Gravity: NA
 Datum Plane: 4838'
 Sonic Instrument Test Data: NA

Well Name	Permit No.	Well No.	Oil Gas (G)	Date Tested	Shut-In Tubing Pressure	Bomb Test Data		Sonic Instrument Test Data		Pressure At Datum
						Test Depth	B.H. Temp.	Prod. Test (Bbls per Day)	Liquid Level	
Nejo Tract 138		1	0	5-9 & 10 1967	474	4948' 920	538			572

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CONFIDENTIAL

SEE ATTACHED DATA SHEETS



* Designate type of report by "x".
 CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Dist. Operations Supt. of the Humble Oil & Refining 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.

Signature: *Reginald H. Hager*

Date: May 26, 1967

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Form No. 7

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Reservoir Pressure Report
 File One Copy

INSTRUCTIONS FOR RUNNING AND REPORTING BOTTOM HOLE PRESSURES

This report shall be mailed not later than the 15th day of the month immediately following the month in which the tests were made. All bottom hole pressure tests reported herein shall be made by a person qualified by both training and experience to make such tests.

1. Oil gradient shall be in pounds per square inch per foot.
2. Water gradient shall be in pounds per square inch per foot.
3. Datum plane shall be in feet plus or minus sea level.
4. Gas gravity shall be determined from an analysis of the casinghead gas.
5. Date Tested—Enter in this column the month and day on which the bottom hole pressure test was made.
6. Shut-in Time—Shall be reported accurately to nearest hour. The well tested shall have produced its normal daily rate of production or allowable within the 24-hour period immediately preceding the time at which it was shut in. (Any deviations shall be certified to on this report)
7. Test Depth—Shall be reported in feet as the lowest point to which the bomb was run and shall be reported in feet plus or minus sea level.
8. Bottom Hole Temperature—Shall be reported in degrees Fahrenheit as determined at test depth by either a recording or maximum reading thermometer.
9. Observed Pressure—Shall be reported as the pressure in pounds per square inch gauge observed at test depth before any necessary temperature correction has been made.
10. Production Test—The oil and water reported shall be from a representative production test immediately preceding the time at which the well was shut in.
11. Fluid Level—The fluid level reported shall be in feet above the datum plane.
12. Fluid Gradient—Shall be in pounds per square inch per foot and shall be representative of both the oil and water gradient where the well produces water as well as oil.
13. Weight of Oil Column shall be in pounds per square inch.
14. Weight of Gas Column shall be in pounds per square inch.
15. Casing Pressure—Shall be reported as the pressure in pounds per square inch gauge.
16. Datum Pressure—
 - (a) In the case of bomb measurements, this pressure shall be the observed pressure after the corrections for reservoir temperature and for the difference between test depth and datum plane have been made.
 - (b) In the case of sonic measurements, this pressure shall be determined from the weight of the fluid column plus the weight of any gas present above the fluid column plus casinghead pressure after proper corrections are made for temperature.

Calibration—The subsurface pressure instrument shall be calibrated against a dead weight tester both prior and subsequent to the dates at which all tests reported hereon are made, and in no case shall this time exceed a period of one month. The prior and subsequent calibrations shall not disagree by more than one per cent (1%). The dead-weight tester used for the calibration shall be approved by the State of Arizona Oil & Gas Conservation Commission

May 24, 1967

Telcon: Roger Frazier, Humble Denver

Re: Humble #1-138

Roger Frazier telephoned me in Kingman to report that the pump on this well had ceased to work. Pulled pump and well started to flow by heads at 600-1100 BPD. Prior to breakdown the pump was producing 1,400 BPD.

Malfunctioning of pump caused by sand. Pump will be serviced and re-installed.

Due to pump trouble and to the fact the well is flowing, an accurate GOR is not possible but will be furnished to Commission as soon as possible.

Bottom hole pressure test will be furnished to Commission immediately.

John Bannister
Executive Secretary
mr

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1. Name of Operator Humble Oil & Refining Company, P. O. Box 120, Denver, Colorado 80201

2. OIL WELL GAS WELL OTHER (Specify) _____

3. Well Name Navajo Tract 138 #1

Location SE NE (1900' FNL & 800' FEL) of Section 6-35N-30E G&SRM

Sec. 6 Twp. 35N Rge. 30E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-0603-8876

5. Field or Pool Name Dineh bi Keyah

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

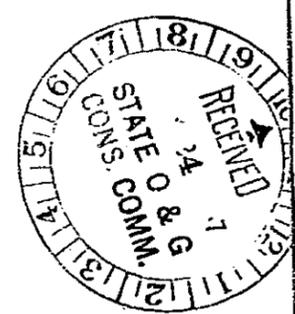
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>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

(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.)

As requested by your letter of May 19, 1967, and to comply with Commission Order dated May 10, 1967, please change the acreage dedication of the above well to read as follows:

160 acres - NE $\frac{1}{4}$ Sec. 6-35N-30E Apache County, Arizona.



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

Signed [Signature] Title Dist. Operations Supt. Date May 23, 1967

Permit No. 388

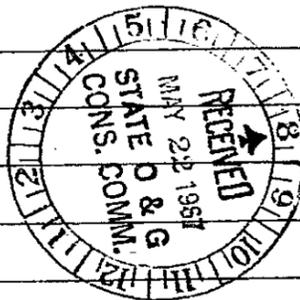
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports On Wells
File Two Copies
Form No. 25

Letterette

TO	Arizona Oil & Gas Conservation Commission Attn: Marg Rushton	<small>LOCATION</small> 1624 West Adams, Suite 202, Phoenix, Arizona
FROM	Humble Oil & Refining Company Marvin D. Smith	<small>LOCATION</small> P. O. Box 120, Denver, Colorado 80201
SUBJECT	Change of Load Oil Volume on Form #6 for Navajo Tract 138 #1.	<small>DATE</small> 5-19-67

Please change the volume of load oil produced as shown on Form #6 dated 5-18-67 from 2227 barrels to 2028 barrels. This is confirming telephone conversation of 5-19-67.

MESSAGE



Marvin D. Smith

SIGNATURE

Marvin D. Smith

REPLY

SIGNATURE

DATE

**CERTIFICATE FOR LOAD OIL CREDIT AND
PERMIT TO TRANSPORT RECOVERED LOAD OIL**

Operator Humble Oil & Refining Company		Address P. O. Box 120, Denver, Colorado	
Federal, State or Indian Lease Number. or lessor's name if fee lease. 14-20-0603-8876 Navajo Tract	Well No. 138 #1	Field and Pool Dineh bi Keyah	County Apache
Location SE NE (1900' FNL & 800' FEL) Section 6-35N-30E G&SRM			Sec-Twp-Rge or Block & Survey
2028 Bbls.		Barrels load oil recovered	
Oil was purchased from* The Permian Corporation		Address P. O. Box 3119, Midland, Texas 79764	
		Date purchased	

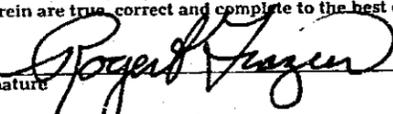
Oil from the lease and well first above described is gathered and transported by:

The Permian Corporation

This report will certify that the number of barrels of load oil, shown above, was recovered from the property first above described; also that this load oil was purchased from the named firm (or lease), and permission is hereby requested for the running of the said number of barrels of oil by the gatherer and transporter.

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CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the District Operations Supt. of the Humble Oil & Refining Company (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
 May 19, 1967
 Date

Note: This report required only when load oil was obtained from a source other than the lease on which used.
*Insert lease name, location and pool if oil supplied from a lease.

Date Approved <u>5-22-67</u>
STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION
By: <u>John Bannister</u>

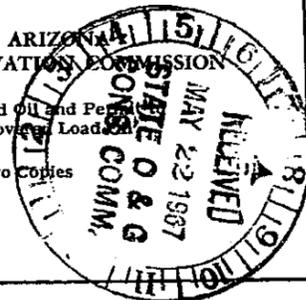
Permit No. 388

Form No. 17

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Certificate for Load Oil and Permit
Transport Recovered Load Oil

File Two Copies



CONFIDENTIAL

POTENTIAL TEST AND REQUEST FOR ALLOWABLE OIL WELLS

DESIGNATE TYPE OF COMPLETION:

New Well Work-over Deepen Plug Back Same Reservoir Different Reservoir

Other Reason For Filing:

CONFIDENTIAL

Operator

Humble Oil & Refining Company

Address

P. O. Box 120, Denver, Colorado 80201

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or Lessor's Name if Fee Lease	Well Name	County
Navajo Tract 138 (14-20-0603-8876)	Navajo Tract 138 #1	Apache
Footage Location		
SE NE (1900' FNL & 800' FEL) of Section 6		
Sec. Twp. Rge.		
Section 6-35N-30E - G&SRM		
Date spudded	Date completed, ready to produce	Total depth
4-2-67	5-16-67	4280'
Field and reservoir		P.B.T.D.
Dineh bi Keyah - Miocene Sill		3578'
		Top of pay
		3342'
		Producing interval
		3342-3559'

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.
5-14-67	5-15- & '16-67	24 hrs.	Pump, Reda	2227 bbls.
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.		
2027 bbls. load oil & 1875 bbls. new oil.		Reda 100 HP 90 Stage G-62-E.		
Tubing pressure	Casing pressure	Choke size		
2028	85#	65#	None	
*Actual production during test:	Oil (bbls)	Water (bbls)	Gas (MCF)	
	1420	.2 to .4% BS&W	300.5 (1)	
*Production must actually equal or exceed wells daily allowable or test must be for full 24 hours				
Gas-oil ratio	Oil gravity	* A.P.I. corrected		Name of transporter of oil
0.212	43.2			Permian Corporation
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	1	Single	Maximum Produced (2)	

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.

See Attached

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Dist. Operations Supt. of the Humble Oil & Refining Company (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.

May 18, 1967

Date

Signature

(1) - Gas measurement taken on 5-17-67 with no change in pumping and well conditions. Therefore this is a representative gas measurement.

(2) - Production may be limited due to capacity of pump. At a future date, a larger pump may be installed at which time another test will be submitted.

Witnessed by:

Organization

Signature

Date

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Potential Test & Request for Allowable—Oil Wells

File One Copy

Permit No. 388

CONFIDENTIAL

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RECEIVED



RECEIVED

CONFIDENTIAL

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

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

DESCRIPTION OF WELL AND LEASE

Operator: Humble Oil & Refining Company; Address: P. O. Box 120, Denver, Colorado 80201

Federal, State or Indian Lease Number or name of lessor if fee lease: Navajo Tract 138 (14-20-0603-8876); Well Number: 1; Field & Reservoir: Dineh bi Keyah - Miocene Sill

Location: SE NE (1900' FNL & 800' FEL) Section 6; County: Apache

Sec. TWP-Range or Block & Survey: Section 6-35N-30E - G&SRM

Date spudded: 4-2-67; Date total depth reached: 4-23-67; Date completed, ready to produce: 5-16-67; Elevation (DF, RKB, RT or Gr.): 8278' RKB; Elevation of casing hd. flange: 8266' feet

Total depth: 4,280'; P.B.T.D. 3640' w/temp. BP @ 3578'. *; 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: 3342-3559' - See perforations below.; Rotary tools used (interval): 0 - 4280'; 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 completion): IES & Sonic-Gamma Ray; Date filed: 5-2-67

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CASING RECORD

Table with 7 columns: Purpose, Size hole drilled, Size casing set, Weight (lb./ft.), Depth set, Sacks cement, Amt. pulled. Rows include Conductor, Surface, and Production.

TUBING RECORD

LINER RECORD

Table with 8 columns: Size, Depth set, Packer set at, Size, Top, Bottom, Sacks cement, Screen (ft.).

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Table with 4 columns: Number per ft., Size & type, Depth Interval, Amt. & kind of material used. Includes details for Hyper Jet and initial production.

* Below bridge plug. INITIAL PRODUCTION ** Screened out, left 1400# in tubing.

Date of first production: 5-14-67; Producing method: Pump - Reda 100 HP 90 Stage G-62-E.

Date of test: 5-15&16-67; Hrs. tested: 24; Choke size: -; Oil prod. during test: 1420 bbls.; Gas prod. during test: 300.5 (2) MCF; Water prod. during test: .2 to .4% BS&W bbls.; Oil gravity: 43.2 API (Corr)

Tubing pressure: 85#; Casing pressure: 65#; Cal'd rate of Production per 24 hrs.: 1420 bbls.; Gas: 300.5 (2) MCF; Water: .2 to .4% BS&W bbls.; Gas-oil ratio: 212 (2)

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 District Operations Superintendent of the Humble Oil & Refining Company (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: May 18, 1967; Signature: [Handwritten Signature]

- (1) - Bottom of Reda Assembly at 3288' with pump intake at 3248'.
(2) - Gas measurement taken on 5-17-67 with no change in pumping and well conditions.
Therefore this is a representative gas measurement.

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

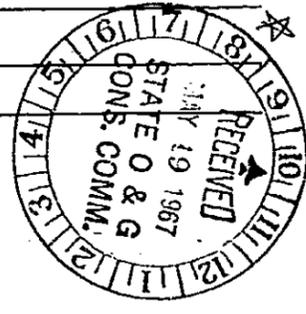
Permit No. 388; Form No. 4

CONFIDENTIAL

(Complete Reverse Side)

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description
Chuska	Surface	535'	Loose sand.
Chinle	535'	1202'	Red shale & silt.
Coconino	1202'	1910'	Sandstone & conglomerate.
Rico	1910'	2720'	Red & orange shale, siltstone & fine sandstone.
Hermosa	2720'	3173'	Varigated shale & siltstone, thin limestone.
Ismay	3173'	3264'	Limestone, buff to light grey. Cherty. Shaley at base.
Desert Creek	3264'	3312'	Limestone, white to light grey & shale, grey.
Akah	3312'	3340'	Limestone, dark grey & shale, green, waxy.
Sill	3340'	3627'	Igneous sill injected into altered limestone & shale.
Molas	3627'	3754'	Limestone, grey dense interbedded w/varigated shale.
Mississippian	3754'	3910'	Limestone, white to buff, dense, oolitic.
Devonian	3910'	4050'	Shale, gray-green & dolomite, buff to grey.
McCracken	4050'	4152'	Sandstone, clear to white, quartzose.
Aneth	4152'	4270'	Dolomite, white to buff.
Pre-Cambrian	4270'	4280'	Pink biotite granite.



CONFIDENTIAL

NOT DRILL STEM TESTS TAKEN.

CORES REPORTED ON SUNDRY NOTICE DATED 5-2-67.

CONFIDENTIAL

* 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.

From the Desk of

JOHN BANNISTER

Permit # 388

Humble 1-138

5-17-67 phone from Roger Francis

Fracked 2200 Bbls of oil +

46,500 lbs sand @ 1100 lbs

Core injection rate 68 Bbls per day

Top " " 86 " " "

Prior to frack well flowed 4 to 5 Bbls per hr

after frack flowed 40 Bbls - when

tid in to tank (up hill) flowed 78

Bbls.

Rede pump set 1P 1400 BOPDT

GOR appx 700-1

on 5-15 made 1381 BO

5-16 " 1420 BO

388

From the Desk of

JOHN BANNISTER

900' of fluid - stay level
Full reports will be made
soon

JB

5-17-67

From the Desk of

5-A-67

JOHN BANNISTER

Frazier

900

1-138 2200; Bls load oil ^{top}
fracked 26 Bls per mi 1488 Bls
sand 46500 lbs 20-40 sand
ave 68 per mi
100 ^{sq ft} _{cells} approx 1100 lbs
2300 lbs wet

well flowed prior to frack
job 4 to 5 bls
mud acid 12 bls
2000 gal acid 7 Bls per mi

~~swab~~

Del moved from base

900' frack

fracked mound
3619 - 3627

flowed 40 lbs per hr
22 lbs per hr
up hill

Pump Rate 5:13 - 5:57 - 5 pm

2 AM 14th 1895 lbs

Rate up 47 lbs per hr

Now 2 24 hr

1420 lbs 15-16

1381 lbs 14-15

3225 New
200-1

Frozen (@ Telephone) 5-10-67 - JPS

Reda pump on way. Hope to install
tomorrow.

5-12-67 Setting Reda Pump -

TEFTELLER, INC.
RESERVOIR ENGINEERING DATA
Midland, Texas

Test date 5-10-67

Well : NAVAJO TRACT 138 NC. 1

Page 1 of 3

Field : LUKA

File 2-2186-BU

CHRONOLOGICAL PRESSURE AND PRODUCTION DATA

1967 Date	Status of Well	Time	Elapsed Time Hrs.Min.	Wellhead Pressure Tbg Csg	EHP @ 3330' Psig
5-9	Well flowing				
"	Inst. on bottom *			80 Pkr	439
"	Well shut in	14:30			439
"	"	14:40	10		471
"	"	14:50	20		488
"	"	15:10	40		495
"	"	15:30	1 00		503
"	"	16:30	2 00		507
"	"	17:30	3 00		516
"	"	18:30	4 00		522
"	"	19:30	5 00		527
"	"	20:30	6 00		529
"	"	21:30	7 00		530
"	"	22:30	8 00		532
5-10	"	00:30	10 00		534
"	"	02:30	12 00		535
"	Inst. off bottom	06:00	15 30	474	538

* Tagged bottom at 3529'



388

43



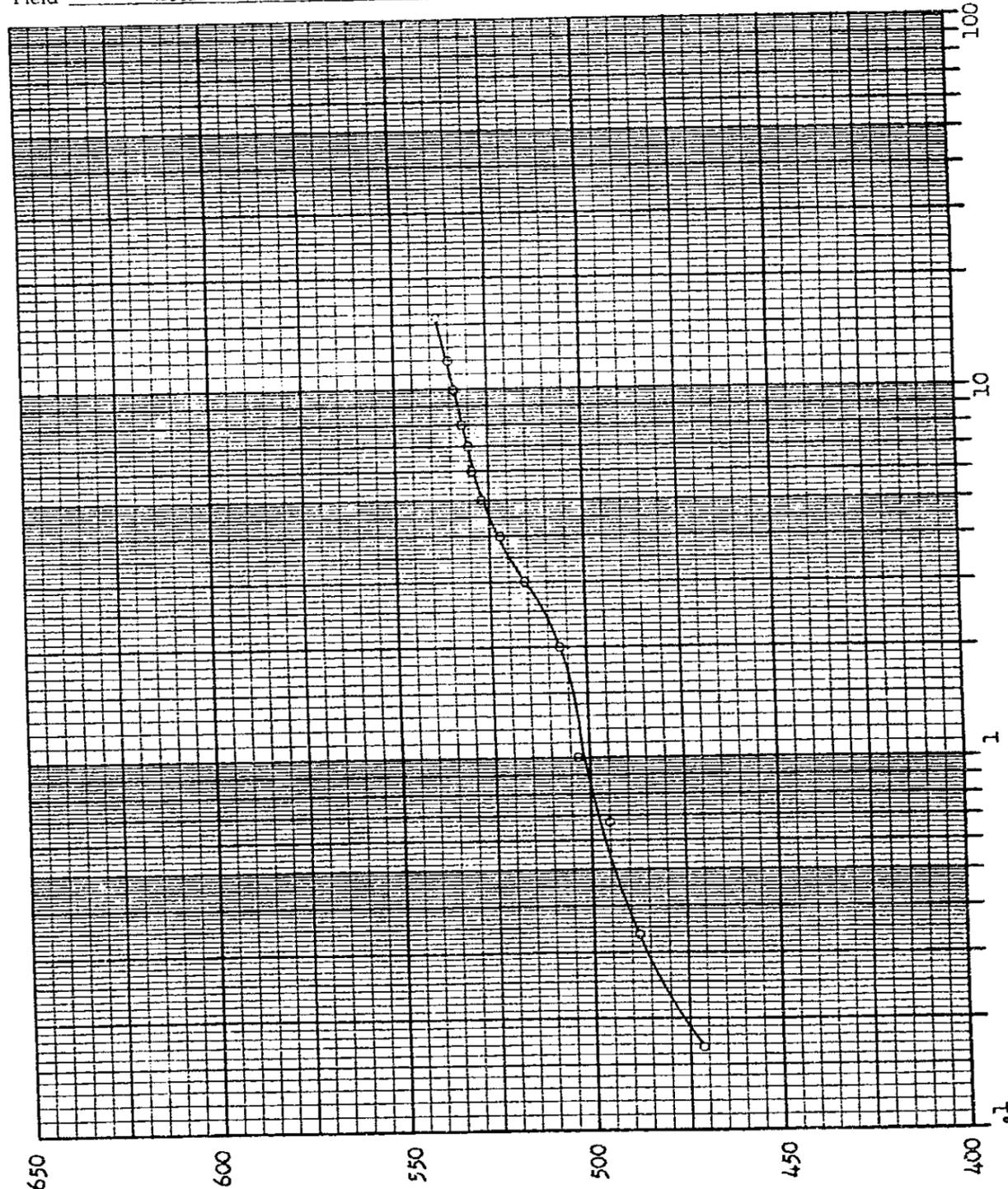
EFTELLER, INC.

reservoir engineering data
MIDLAND, TEXAS

Page 2 of 3
File 2-2186-BU

Company	<u>HUMBLE OIL & REFINING COMPANY</u>	Formation	<u>HERMOSA</u>
Well	<u>NAVAJO TRACT 138 NO. 1</u>	County	<u>APACHE</u>
Field	<u>LUKA</u>	State	<u>ARIZONA</u>

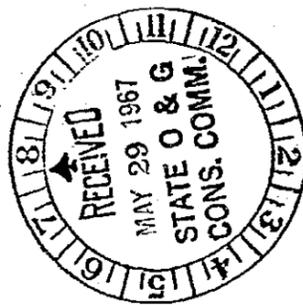
BUILD UP CURVE



SHUT IN TIME : HOURS

PRESSURE : PSIG @ 3330 FEET

3878

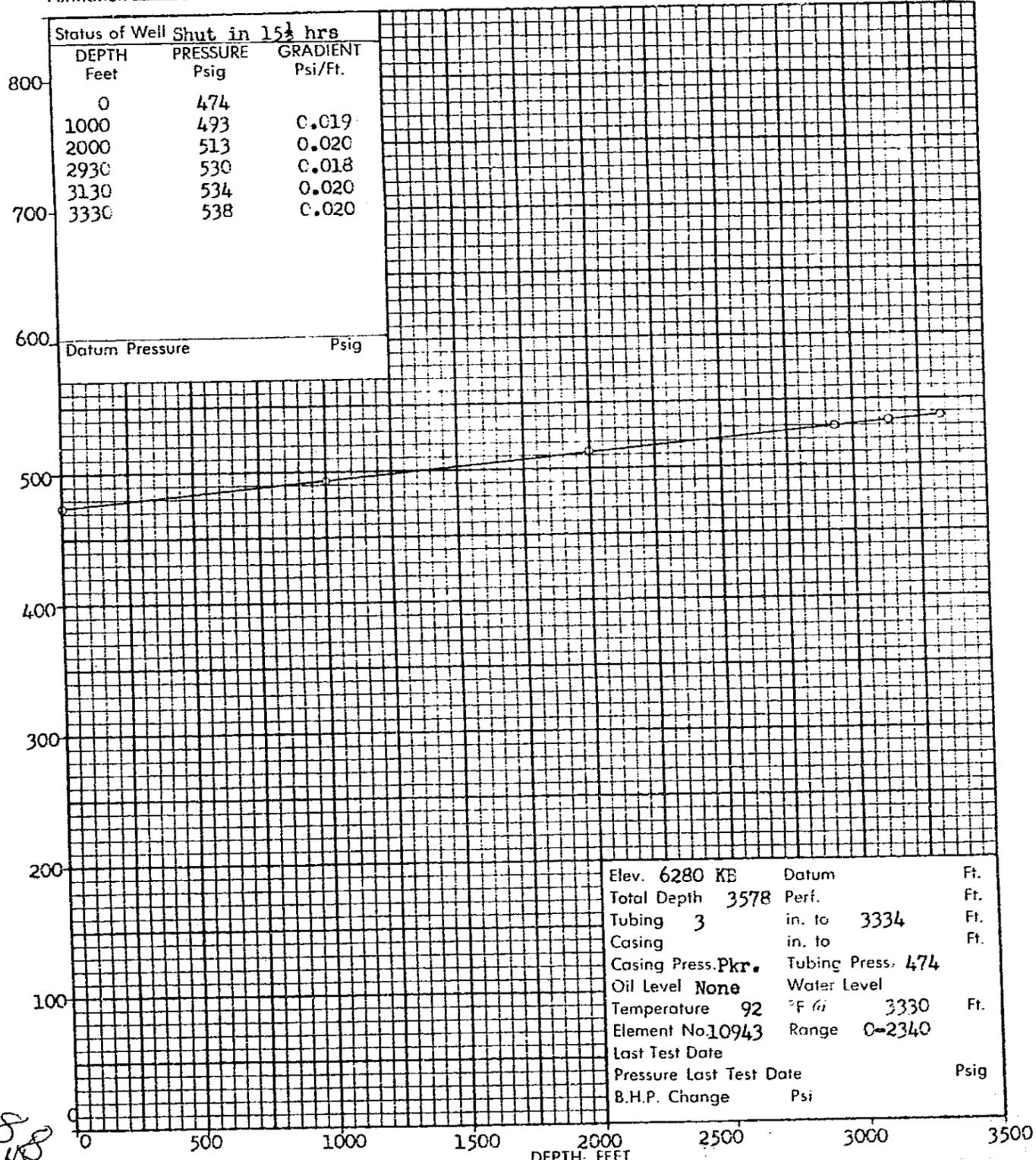




Page 3 of 3
File 2-2186-EU

Company HUMBLE OIL & REFINING COMPANY Lease NAVAJO TRACT 138 Well No. 1
Field LIJKA County APACHE State ARIZONA
Formation HERMOSA Test Date MAY 10, 1967

PRESSURE POUNDS PER SQUARE INCH GAUGE



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SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Humble Oil & Refining Company, P. O. Box 120, Denver, Colorado 80201
 2. OIL WELL GAS WELL OTHER (Specify) _____
 3. Well Name Navajo Tract 138 #1
 Location SE NE (1900' FNL & 800' FEL) Section 6-35N-30E
 Sec 6 Twp 35N Rge. 30E County Apache Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-0603-8876
 5. Field or Pool Name Dineh bi Keyah

CONFIDENTIAL

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

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

Elevation: 8278' KB - 8266' GR (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.)

Drilled to TD of 4280'. Ran IES & Sonic-Gamma Ray Logs. Spotted 50 sack cement plug from 4160-4040' and a 40 sack cement plug from 3840-3740'. Set 7" OD 20# J-55 casing at 3665' and cemented with 150 sacks 50-50 Pozmix S cement with 2% gel, 2% CaCl and 25# gilsonite per sack. Good returns throughout job. Temperature survey indicated top of cement at 2800'. Cement job complete 4-24-67.
 Core #1: 3345-83', recovered 38'. 4 1/2' crystalline igneous rock; 4' altered sedimentary rock; 22 1/2' crystalline igneous rock and 7' altered sedimentary rock.
 Core #2: 3383-88', recovered 5'. 4 1/2' altered sedimentary rock and 1/2' finely crystalline igneous rock.
 Core #3: 3388-3432', recovered 33'. 1' finely crystalline igneous rock; 22' altered sedimentary rock with inclusions of igneous rock as above and 10' crystalline igneous rock.
 Core #4: 3432-62', recovered 25'. 25' crystalline igneous rock.
 Core #5: 3462-74', recovered 12'. 11' crystalline igneous rock and 1' altered shale.

IES & Sonic-Gamma Ray Logs enclosed.

CONFIDENTIAL



8. I hereby certify that the foregoing is true and correct.
 Signed Roger S. Frazier Title Dist. Operations Supt Date 5-2-67

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

Permit No. 388

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

Federal, State or Indian Lease Number, or lessor's name if fee lease Navajo - 14-20-0603-8876	Field Dineh bi Keyah	Reservoir Miocene Sill
Survey or Sec-Twp-Rge Sec. 6-35N-30E - G&SM	County Apache	State Arizona
Operator Humble Oil & Refining Company		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street P. O. Box 120	City Denver,	State Colorado 80201
Above named operator authorizes (name of transporter) The Permian Corporation		
Transporter's street address P. O. Box 3119	City Midland	State Texas 79764
Field address Farmington, New Mexico		
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 None	% 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 lease, and the effective date of change. New Lease		

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

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the District Superintendent of the Humble Oil & Refining Company (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 April 28, 1967 Signature J. Roy Dorrrough

Date approved: 5-19-67
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By: John Kammster
Permit No. 388



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

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R714.4
Approval expires 12-31-60.

ALLOTTEE _____
TRIBE Navajo
LEASE No. 14-20-0603-8876

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Arizona County Apache Field Dineh bi Keyah

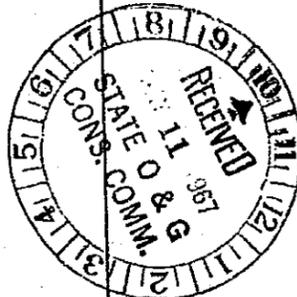
The following is a correct report of operations and production (including drilling and producing wells) for the month of April, 19 67,

Agent's address P. O. Box 120 Company Humble Oil & Refining Company
Denver, Colorado 80201 Signed ORIGINAL JOHN R. CROUCH

Phone 534-1251 Agent's title Dist. Administrative Supr.

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, specify; if shut down, cause; date and result of test for gasoline content of gas)
NAVAJO TRACT 138										
Sec. 6 SE NE		35N 30E	1							TD 2 4280'. Moving in Completion Unit as of 5-1-67. Well History has been submitted thru 5-1-67.

CONFIDENTIAL



cc: 2 - Arizona Oil & Gas Conservation Commission
1 - Mr. Henry F. Pohlmann, Minerals Supervisor, Navajo Tribe.

NOTE.—There were no runs or sales of oil; no M. cu. ft. of gas sold;

no runs or sales of gasolins 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.

388

From the Desk of

JOHN BANNISTER

4-24-67

Telecom
Humbk - Denver

Max Ferrell

Coco 1202

Hermosa 2395 ?

Ismay 3173

Miss 3783

Dev. 3910

Pre Gram. 4270

WELL SITE CHECK

By J. B
Date 4-24-67

Contractor Mesa Drilling Co Person(s) Contacted Harold Ferris - Drilling Sup
 Spud Date 4-2-67 Geo. Ashland - Geo.
 Type Rig H-15 Rotary Cable Tool Present Operations Waiting on
 Samples orders - will TD at 4281'
 Pipe Conductor 16" to 60' Drilling with Air
Surface 10 3/4" to 538' Mud
 Water Zones _____ Size Hole 8 3/4"
 Lost Circ. Zones _____ Size Drill Pipe _____
 Formation Tops Dev 3910' } Samples Type Bit _____
Miss 3826' } No. Bit _____ Drilling Rate _____
 Cores, Logs, DST _____ Formation _____
 Crews 4 men - 3 hours - Day Work Lithology _____

REMARKS, PHOTO, MAP



Surface hole 12 1/4"
 will TD 4-21-67 at 4281'
 in pre cambrian. Set plugs
 to Miss. (no porosity) 3728' to
 3826'
 plug 20' of porosity in Devonian
 from 3910' to 4110'.
Set pipe to 3660'
 3 400 gal tanks on lease

WELL NAME Humble 1-Nav. 138
 SENE 6-35N-3DE 1900 N, 80DE

Permit No. 388
 Confidential: No

4-21-67

Telcon, Roger Frazer

Re: Humble #1 - Navajo 138

Ran into a "bridge" in hole - couldn't
get logging down. So as long as they had
to go back in, decided to take it a
little deeper. Now drilling.

388

4-20-67

Telcon w/ Mad Ferrell

Re: Humble #1 Navajo 138
Permit 388

Preparing to log a.m. this date
TD 3972

388

Rec'd 10-12-73
A20x6.C.M.W

CORE ANALYSIS RESULTS

Company HUMBLE OIL & REFINING COMPANY Formation PENNSYLVANIAN File RP-3-2196
Well NAVAJO TRACT 138-1 #388 Core Type D/C Date Report 1/18/67
Field UNDESIGNATED D-B-11 Drilling Fluid LOW SOLIDS, 5% DIESEL Analysts GRAHAM
County APACHE State ARIZONA Elev. 8266 Gr. Location SEC. 6-T35N-R30E

Lithological Abbreviations

SAND-SB SHALE-SH LIMB-LM DOLOMITE-DOL CHEST-CN GYPSUM-GYP ANHYDRITE-ANHY CONGLOMERATE-CONG FOSSILIFEROUS-FOSS SANDY-SBY SHALY-SHY LIMY-LMY FINE-FN MEDIUM-MED COARSE-CSE CRYSTALLINE-XLM GRAIN-GRN GRANULAR-GRML BROWN-BRN GRAY-GRY VUGGY-VGY FRACTURED-FRAC LAMINATION-LAM STYLOLITIC-STY SLIGHTLY-SL/ VERY-V/ WITH-W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs KA	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
1	3345-46	0.08	10.3	7.8	65.0	THIS ROCK IS A BIOTITE RICH VOGESITE,
2	3346-47	0.09	11.1	9.0	60.4	AND BELONGS TO THE SIENITE LAMPROPHYRE
3	3347-48	0.08	8.8	0.0	82.0	GROUP OF IGNEOUS ROCKS. SAMPLES #2,3,
4	3348-49	0.07	7.3	0.0	80.9	AND 4 ARE ROCK OF THIS TYPE.
5	3349-50	0.03	9.4	29.8	50.1	LS:BUFF-LT GRY, CHALKY, ARGIL, OBLIQUE FRAC
6	3350-51	0.65	10.4	14.4	47.1	LS:BUFF-LT GRY, ARGIL, OBLIQUE FRAC
7	3351-52	0.03	8.0	18.7	33.8	LS:GRY, BADLY ALTERED, HAIRLINE FRAC
8	3352-53	0.43	12.2	30.3	46.7	SH:GRY, GRNISH, W/ANHY, ARGIL, HAIRLINE FRAC
9	3353-54	0.17	13.1	43.5	35.1	SH:BUFF, ARGIL, W/LS XTLS
10	3354-55	0.04	5.3	0.0	84.9	IGNEOUS ROCK OF THE TYPE DESCRIBED AT
11	3355-56	0.07	7.8	0.0	78.3	THE BEGINING OF THE SAMPLE DESCRIPTIONS.
12	3356-57	0.27	7.7	0.0	77.9	THE ENTIRE INTERVAL FROM 3354 TO 3376
13	3357-58	0.04	7.5	0.0	84.0	IS ROCK OF THIS TYPE
14	3358-59	0.06	7.2	0.0	83.4	
15	3359-60	0.03	8.6	3.5	70.8	
16	3360-61	0.06	7.3	0.0	76.6	
17	3361-62	0.08	8.4	6.0	67.7	
18	3362-63	0.27	9.6	7.3	59.4	VUGGY
19	3363-64	0.11	9.5	6.3	71.6	
20	3364-65	0.07	8.8	5.7	75.0	
21	3365-66	0.13	10.4	10.6	61.5	
22	3366-67	0.10	9.3	7.5	63.4	
23	3367-68	0.20	10.8	11.1	50.0	
24	3368-69	0.13	11.5	11.3	58.3	
25	3369-70	0.13	10.5	9.5	60.0	
26	3370-71	0.16	13.3	11.3	46.6	
27	3371-72	0.50	9.3	12.2	57.0	VUGGY
28	3372-73	0.07	12.7	8.7	46.4	
29	3373-74	0.08	13.3	5.3	47.3	
30	3374-75	0.09	12.5	5.6	46.4	
31	3375-76	0.06	10.0	12.7	33.4	
32	3376-77	0.03	7.7	14.3	28.6	DOL:GRY, BADLY ALTERED, W/LS INCLU
33	3377-78	0.04	8.3	15.6	37.4	IGNEOUS INTRUSIVE, GRNISH GR, AS ABOVE
34	3378-79	0.01	8.9	5.6	57.4	IGN INTRU:GRY-GRNISH GRY
35	3379-80	0.02	11.7	2.6	62.3	DOL:GRNISH GRY, ALTERED, ARGIL, W/LS XTLS
36	3380-81	0.02	8.3	0.0	91.6	IGN; INTRU:GRY GRN
37	3381-82	0.01	3.9	0.0	82.1	IGN INTRU:GRY GRN, W/QTZ XTLS
38	3382-83	0.02	1.0	0.0	90.0	SH:DK GRY-GRN, SLI/ALTERED, CHTY
39	3387-88	0.02	8.2	46.2	37.8	DOL:WHT-LT GRY, ALTERED, ARGIL

Core # 1 3345-3388
3387-88
Core # 2

SERVICE #5-A

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

#388

CORE ANALYSIS RESULTS

Company HUMBLE OIL & REFINING COMPANY Formation PENNSYLVANIAN File RP-3-2196
Well NAVAJO TRACT 138-1 Core Type D/C Date Report 4/18/67
Field UNDESIGNATED Drilling Fluid LOW SOLIDS, 5% DIESEL Analysts GRAHAM
County APACHE State ARIZONA Elev. 8266 Gr. Location SEC. 6-T35N-R30E

Lithological Abbreviations

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY'S	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
40	3391-92	0.02	4.5	31.1	53.3	DOL:WHT-LT GRY, ALTERED, ARGIL, W/LS XTLS
41	3392-93	0.02	5.5	20.0	25.5	DOL:WHT-LT GRY, ALTERED, ARGIL
42	3393-94	0.03	7.1	26.8	42.3	DOL:WHT-LT GRY, ALTERED, ARGIL
43	3394-95	0.19	8.4	22.6	29.8	DOL:WHT-LT GRY, ALTERED, ARGIL, HAIRLINE FRAC
44	3395-96	0.04	7.8	33.4	35.9	DOL:WHT-LT GRY, ALTERED, FILLED VERT FRAC
45	3396-97	0.23	11.1	27.9	33.4	DOL:WHT-LT GRY, ALTERED, FILLED VERT FRAC
46	3397-98	0.13	9.5	30.6	40.1	DOL:WHT-LT GRY, ALTERED, HAIRLINE FRAC
47	3398-99	0.18	14.5	31.1	37.2	DOL:WHT-LT GRY, ALTERED, ARGIL
48	3399-3400	0.32	6.0	25.0	50.0	DOL:WHT-LT GRY, ALTERED, HAIRLINE FRAC
49	3400-01	0.09	8.7	24.1	51.7	SH:WHT-LT GRY, ALTERED, W/ANHY, DOL
50	3401-02	0.08	7.5	14.7	50.7	SH:WHT-BUFF, ALTERED, HAIRLINE FRAC
51	3402-03	0.41	10.0	36.0	30.0	SH:WHT-BUFF, ALTERED, W/ANHY, LS XTLS
52	3403-04	0.06	7.2	19.4	47.2	SH:WHT-BUFF, ALTERED
53	3404-05	0.13	9.4	20.2	30.8	SH:WHT-BUFF, ALTERED, HAIRLINE FRAC
54	3405-06	0.11	3.7	0.0	73.0	SH:WHT-BUFF, ALTERED
55	3406-07	0.03	3.4	0.0	64.6	SH:BUFF-LT GRY, ALTERED, DOL
56	3407-08	0.10	8.9	21.4	50.6	SH:BUFF-LT GRY, ALTERED, DOL
57	3408-09	0.03	9.2	8.7	62.0	SH:BUFF-LT GRY, ALTERED, DOL
58	3409-10	0.03	6.3	0.0	85.7	SH:BUFF-LT GRY, ALTERED, DOL
59	3413-14	0.03	10.3	38.8	42.7	SH:BUFF-LT GRY, ALTERED, DOL
60	3414-15	0.14	11.0	13.6	34.6	SH:BUFF-LT GRY, ALTERED, DOL
61	3415-16	0.92	13.1	14.5	17.6	IGN INTRU:GRY GRN, V/VGY
62	3416-17	1.42	10.9	15.6	22.9	IGN INTRU:GRY GRN, V/VGY
63	3417-18	0.21	12.5	8.0	38.4	IGN INTRU:GRY GRN, VGY
64	3418-19	1.56	11.5	12.2	38.3	IGN INTRU:GRY GRN, VGY, BADLY BROKEN
65	3419-20	0.24	9.6	7.3	62.4	IGN INTRU:GRY GRN, VGY, BADLY BROKEN
66	3420-21	0.19	10.2	22.9	72.5	IGN INTRU:GRY GRN, VGY, BADLY BROKEN
67	3421-22	0.16	9.3	3.2	69.9	IGN INTRU:GRY GRN, VGY, BADLY BROKEN
68	3432-33	0.27	12.0	11.7	63.4	IGN INTRU:GRY GRN, SLI/VGY
69	3433-34	0.25	10.5	10.5	52.3	IGN INTRU:GRY GRN
70	3434-35	0.21	10.6	8.5	65.2	IGN INTRU:GRY GRN
71	3435-36	0.24	10.7	11.2	54.2	IGN INTRU:GRY GRN
72	3436-37	0.49	9.4	11.7	64.8	IGN INTRU:GRY GRN
73	3437-38	1.10	10.8	10.2	59.2	IGN INTRU:GRY GRN
74	3438-39	0.50	13.4	9.7	47.0	IGN INTRU:GRY GRN
75	3439-40	0.16	12.5	10.4	51.3	IGN INTRU:GRY GRN
76	3440-41	0.32	13.1	13.0	48.1	IGN INTRU:GRY GRN

Core #3 3588-3432

Core #4 3432-3442

SERVICE #5-A

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CORE ANALYSIS RESULTS

Company HUMBLE OIL & REFINING COMPANY Formation PENNSYLVANIAN File RP-3-2196
Well NAVAJO TRACT 138-1 Core Type D/C Date Report 4/18/67
Field UNDESIGNATED Drilling Fluid LOW SOLIDS, 5% DIESEL Analysts GRAHAM
County APACHE State ARIZONA Elev. 8266 Gr. Location SEC. 6-T35N-R30E

Lithological Abbreviations

SAND-SB SHALE-SH LIME-LM	DOLOMITE-DOL CHERT-CN GYPSUM-GYP	ANHYDRITE-ANHY CONGLOMERATE-CONG FOSSILIFEROUS-FOSS	SANDY-SBY SHALY-RMY 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-EL/ VERY-V/ WITH-W/
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Core # 4 3432-3462
Core # 5 3462-3474

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS K _A	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
77	3441-42	0.16	12.6	8.7	50.0	IGN INTRU:GRY GRN
78	3442-43	0.13	10.3	6.8	60.1	IGN INTRU:GRY GRN
79	3443-44	0.21	11.6	9.5	55.2	IGN INTRU:GRY GRN
80	3444-45	0.09	10.5	12.4	63.8	IGN INTRU:GRY GRN
81	3445-46	0.09	12.2	13.9	29.5	IGN INTRU:GRY GRN
82	3446-47	0.34	11.2	29.1	18.8	IGN INTRU:GRY GRN, VGY
83	3447-48	0.21	8.5	15.3	50.6	IGN INTRU:GRY GRN
84	3448-49	0.16	10.4	0.3	61.5	IGN INTRU:GRY GRN
85	3449-50	0.19	11.3	7.1	55.7	IGN INTRU:GRY GRN
86	3450-51	0.65	12.8	10.2	51.5	IGN INTRU:GRY GRN
87	3451-52	1.10	13.7	12.4	59.0	IGN INTRU:GRY GRN, VGY
88	3452-53	0.50	10.6	10.4	61.2	IGN INTRU:GRY GRN
89	3453-54	0.32	11.8	11.0	53.5	IGN INTRU:GRY GRN
90	3454-55	0.17	11.0	10.0	56.3	IGN INTRU:GRY GRN
91	3455-56	0.59	11.8	12.7	44.0	IGN INTRU:GRY GRN
92	3456-57	0.44	11.1	12.6	40.6	IGN INTRU:GRY GRN
93	3462-63	0.14	9.3	0.0	65.6	IGN INTRU:GRY GRN
94	3463-64	0.10	9.2	0.0	70.7	IGN INTRU:GRY GRN
95	3464-65	0.12	9.2	0.0	76.0	IGN INTRU:GRY GRN
96	3465-66	0.11	8.2	0.0	78.0	IGN INTRU:GRY GRN
97	3466-67	0.11	9.2	0.0	73.8	IGN INTRU:GRY GRN
98	3467-68	0.14	8.7	0.0	73.6	IGN INTRU:GRY GRN
99	3468-69	0.14	7.1	0.0	63.4	IGN INTRU:GRY GRN
100	3469-70	0.08	8.7	0.0	68.9	IGN INTRU:GRY GRN
101	3470-71	0.29	11.8	16.1	46.7	IGN INTRU:GRY GRN
102	3471-72	0.20	12.2	13.9	46.8	IGN INTRU:GRY GRN
103	3472-73	0.60	11.7	14.5	47.0	IGN INTRU:GRY GRN
104	3473-74	0.09	10.5	10.5	48.6	IGN INTRU:GRY GRN, W/QTZ XTLS

SERVICE #5-A

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CA-20

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

#388

Page No. 4

CORE ANALYSIS RESULTS

Company HUMBLE OIL & REFINING COMPANY Formation PENNSYLVANIAN File RP-3-2196
Well NAVAJO TRACT 138 #1 Core Type D/C Date Report 4/19/67
Field UNDESIGNATED Drilling Fluid LOW SOLIDS, 5% DIESEL Analysts GRAHAM
County APACHE State ARIZONA Elev. 8266 Gr. Location SEC. 6-T35N-R30E

Lithological Abbreviations

SAND-SB SHALE-SH LIME-LW	DOLomite-DOL CHERT-CH GYPSUM-GYP	ANHYDRITE-ANHY CONGLOMERATE-CONG FOSSILIFEROUS-FOSS	SANDY-SBY SHALY-SHY LIMY-LMY	FINE-FN MEDIUM-MED COARSE-CSE	CRYSTALLINE-XLN GRAIN-GRM 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	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS		
				OIL	TOTAL WATER			

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS	
				OIL	TOTAL WATER		
		MAX. 90°					
1	3414-15	29.1	9.8	11.1	8.1	27.9	IGN INTRU:GRY GR,VGY
2	3419-20			10.2	8.8	66.7	IGN INTRU:GRY GR,VGY
3	3440-41			10.6	5.7	59.6	IGN INTRU:GRY GR,VGY
4	3455-56	28.4	5.4	9.9	8.1	50.6	IGN INTRU:GRY GR,VGY

THESE SAMPLES LAID EXPOSED FOR APPROXIMATELY 48 HOURS BEFORE BEING ANALYZED.

SERVICE #5-B

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SUNDY NOTICES AND REPORTS ON WELLS

1. Name of Operator Humble Oil & Refining Company, P. O. Box 120, Denver, Colorado 80201

2. OIL WELL GAS WELL OTHER (Specify) _____

3. Well Name Navajo Tract 138, Well #1

Location SE NE (1900' FNL & 800' FEL) Section 6-35N-30E

Sec. 6 Twp. 35N Rge. 30E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease Navajo - 14-20-0603-8876

5. Field or Pool Name Dineh bi Keyah

CONFIDENTIAL

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

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

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

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

Spudded 4-2-67. Drilled 17 1/2" hole to 40', set 1 jt. 16" 55# spiral weld casing at 40' and cemented with 50 sacks regular cement plus 2% CaCl. W.O.C. 12 hours. Drilled 15" hole to 537', ran 16 jts, 525', of 10-3/4" 32# J-55 casing. Set at 537' KB and cemented with 525 sacks regular cement plus 2% CaCl. Good returns to surface. Job complete 4-3-67.

CONFIDENTIAL



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

Signed [Signature] Title Dist. Operations Supt. Date 4-10-67

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

Permit No. 388

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Humble Oil & Refining Company
 2. OIL WELL GAS WELL OTHER (Specify) _____
 3. Well Name Navajo Tract 138 Well #6-1
 Location SE-NE (1900' FNL & 800' FEL) of Section 6
 Sec. 6 Twp. 35N Rge. 30E County Apache Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-0603-8876

5. Field or Pool Name Unnamed

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

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

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

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

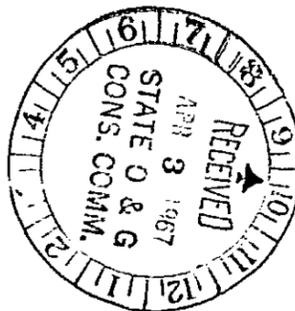
Application for Permit to Drill was submitted with the Well Number 6-1. We would like to delete the 6 and use only Well Number 1. We respectfully request your approval to make this change.

This same request is also being made to U. S. Geological Survey.

OIL & GAS CONSERVATION COMMISSION
 STATE OF ARIZONA
 1624 WEST ADAMS - SUITE 202
 TELEPHONE: 271-5161
 PHOENIX, ARIZONA, 85007

APPROVED

By John Bannister
 Date 4-4-67



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

Signed Roger B. Hays Title Dist. Operations Supt. Date March 30, 1967

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

Permit No. 388

62

APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

APPLICATION TO DRILL

RE-ENTER OLD WELL

Humble Oil & Refining Company
NAME OF COMPANY OR OPERATOR

P. O. Box 120 **Denver,** **Colorado** **80201**
Address City State

Drilling Contractor

Address

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or if fee lease, name of lessor 14-20-0603-8876 (Navajo Tract 138)	Well number 6-1	Elevation (ground) 8,264' Ungraded
Nearest distance from proposed location to property or lease line: 800 feet	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: Appr. 3/4 mile feet	
Number of acres in lease: 615	Number of wells on lease, including this well, completed in or drilling to this reservoir: 1	

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

Well location (give footage from section lines) **1900' FNL & 800' FEL** Section—township—range or block and survey **Sec. 6-35N-30E** Dedication (Comply with Rule 105) **80 acres E/2 NW/4**

Field and reservoir (if wildcat, so state) **Unnamed Field** County **Apache**

Distance, in miles, and direction from nearest town or post office
40 miles Southwest of Shiprock, N. M. via Red Rock Trading Post.

Proposed depth: **4,000'** Rotary or cable tools **Rotary** Approx. date work will start **Spud appr. 3-29-67.**

Bond Status * **Organization Report **** Filing Fee of \$25.00
Amount **On file** Or attached **Attached X**

Remarks: **Mud Program: 0-800' Native Mud. 800-4000' Low solid water base or air may be used if conditions dictate. Testing: 2 - cores in Barker Creek Formation, No DST's and mud logger from 800' to TD. Logs: IES & Gamma Ray/Sonic with Caliper 800' to TD. Stimulation: Fracture treat if necessary.**
Note: Verbal approval received from your office on 3-14-67 to proceed with road & location work.

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the **Dist. Operations Supt.** of the **Humble Oil & Refining Company** (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.

* - Being furnished by Oklahoma City office of Humble.

** - Will be furnished by our Houston Office in the very near future.

Signature *[Signature]*

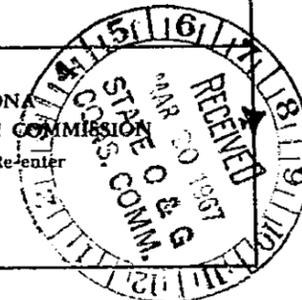
Date **March 17, 1967**

Permit Number: **388**
Approval Date: **3-20-67**
Approved By: *[Signature]*

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

Form No. 3

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



API 02-001-20012

(Complete Reverse Side)

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

Owner	Land Description
	<p style="text-align: center;">CERTIFICATION</p> <p>I hereby certify that the information above is true and complete to the best of my knowledge and belief.</p> <p style="text-align: center;"><u>Roger S. Frazier</u> Name <u>Dist. Operations Supt.</u> Position <u>Humble Oil & Refining Co.</u> Company <u>March 17, 1967</u> Date</p> <p>I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.</p> <p style="text-align: center;">Date Surveyed <u>March 2, 1967</u> Registered Professional Engineer and/or Land Surveyor <u>See attached Surveyors Plat.</u> Certificate No.</p>

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
10-3/4"	40.5#	J-55	0	800'	800'	Cement to Surface. Sufficient to cover all pays.
7"	20#	J-55	0	4000'	4000'	



PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION,
STATE OF ARIZONA,

To: HUMBLE OIL & REFINING COMPANY
(OPERATOR)

to drill a well to be known as

HUMBLE #1 Navajo Tract 138
(WELL NAME)

located 1900' FNL and 800' FEL (SE/4 NE/4)

Section 6 Township 35N Range 30E, Apache County, Arizona.

The E/2 NE/4 of said
Section, Township and Range is dedicated to this well.

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

Issued this 21
20th day of March, 1967.

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
109, SECTION A THRU G (S.P.C.G.), WITH RESPECT
TO THE PRODUCT TO BE PRODUCED.

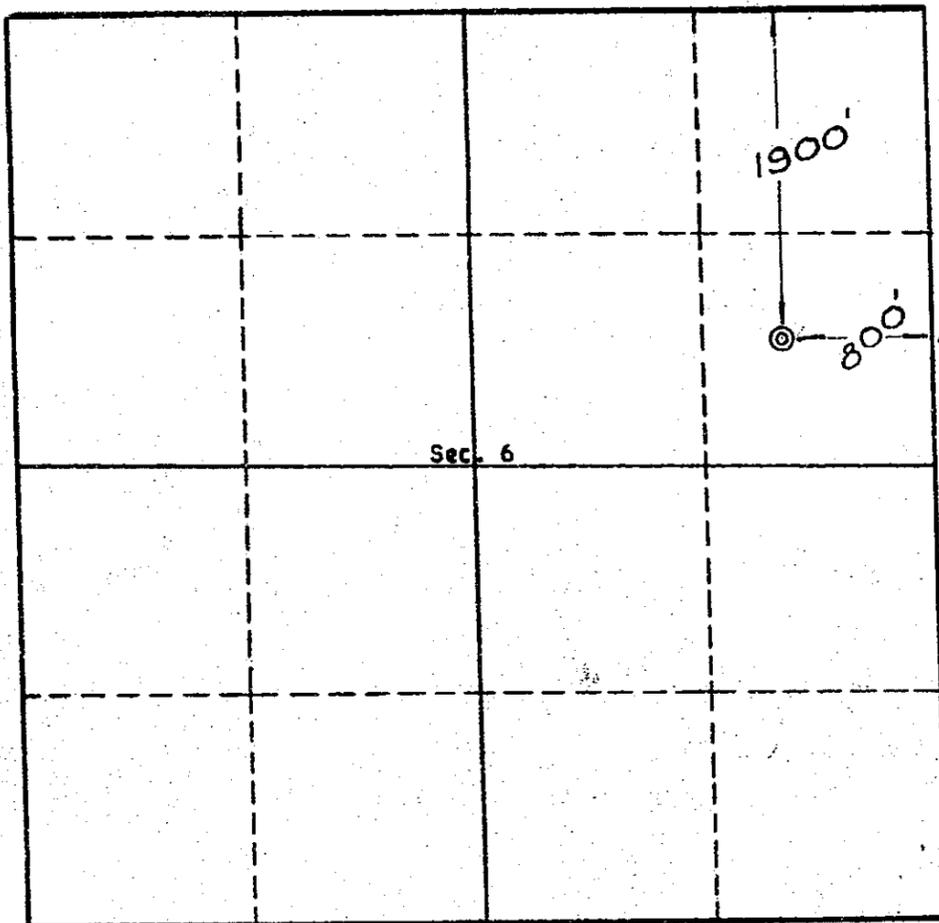
PERMIT No. 388

RECEIPT NO. 9482

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

Company HUMBLE OIL & REFINING COMPANY
Well Name & No. Navajo Tract 138 #6-1
Location 1900 feet from the North line and 800 feet from the East line.
Sec. 6, T. 35 N., R. 30 E., G. & S. R. M., County Apache, Arizona
Ground Elevation 8264 ungraded



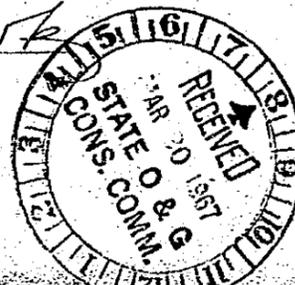
Scale, 1 inch = 1,000 feet

Surveyed March 2, 1967

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



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

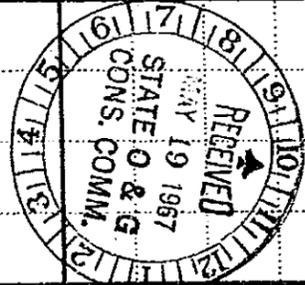
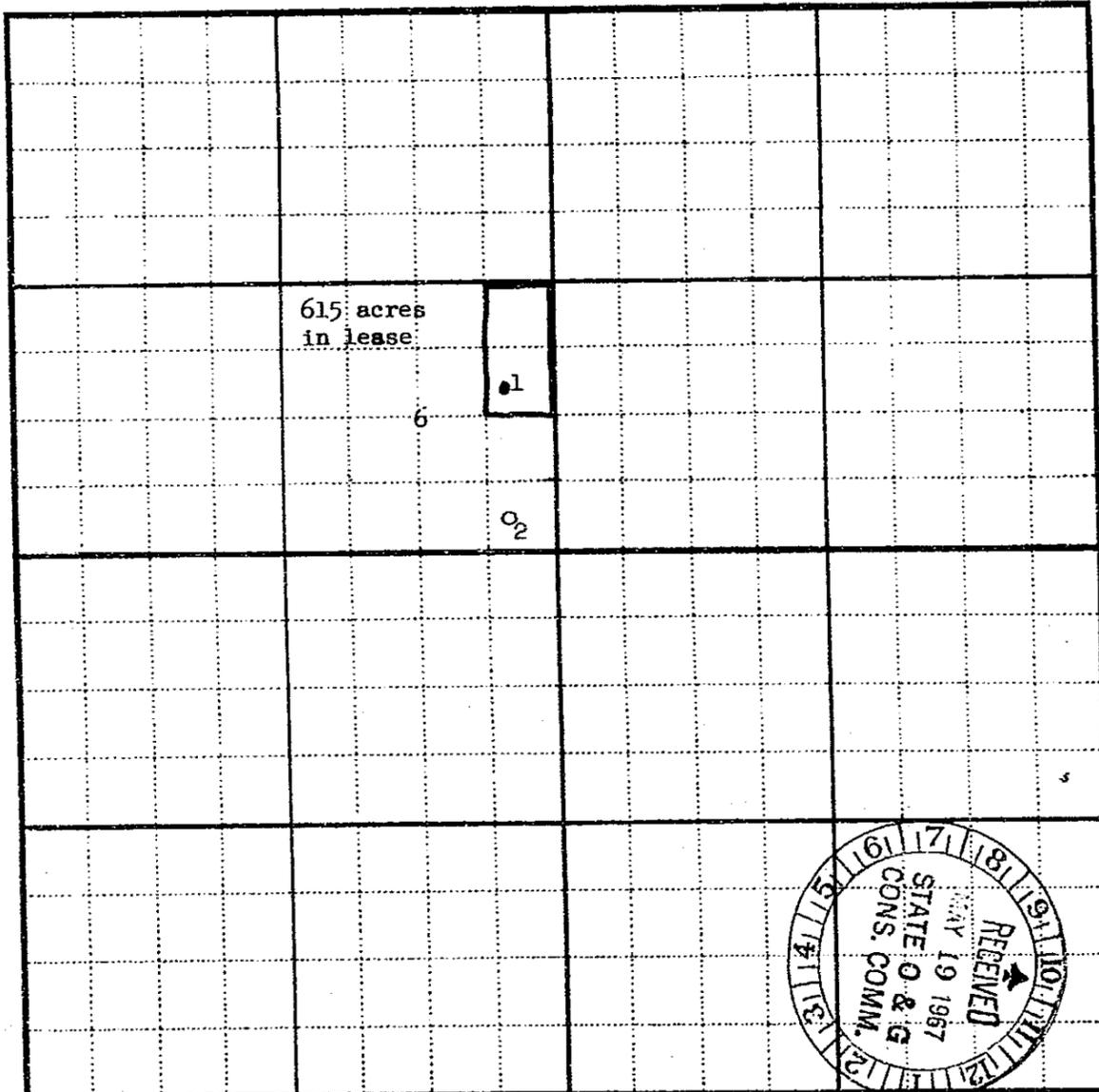


CAR-PRO-373-B
LEASE PLAT & PIPE LINE DATA

DIV. NO. _____ BLOCK NAME _____ LEASE NO. _____
 LESSOR _____
 TOTAL ACCUMULATED INTEREST _____
 STATE _____ COUNTY _____ SEC _____ T _____ R _____ ACRES _____
 DESCRIPTION AND INTEREST _____

Navajo Tract 138 #1

IF USED FOR PIPE LINE DIAGRAM — PLEASE SUPPLY THE FOLLOWING INFORMATION
 Total Length and Size of Pipe Laid _____ Pipe Transferred From _____
 Total Length and Size of Pipe Taken Up _____ Pipe Transferred to _____
 Depth Buried _____ Painted _____ Screw, Welded or Coupled _____ List Fittings (on back of this sheet if necessary)
 Date _____ District _____ Farm or Plant _____ Signed _____
 (Mail to Engineering Department - Tulsa)



When used as 1/4" Section Scale, 1" = 400'
 When used as Section Scale, 1" = 800'
 When used as 4 Sections Scale, 1" = 1600'
 Place check mark after scale used.

Plat made by _____ Date _____
 1/2" Base Map _____ Date _____
 Plat Book (Pend.) _____ Date _____ (Comp.) _____ Date _____
 Block Map (Pend.) _____ Date _____ (Comp.) _____ Date _____
 Block Map Tr. (Pend.) _____ Date _____ (Comp.) _____ Date _____

51

388

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

388

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

Dear Ms. Roberts:

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

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

Please advise if we may be of further service.

Sincerely,

Steven L. Rauzi
Oil & Gas Program Administrator

Enclosure

Operator KERR-MCGEE CORPORATION

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

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

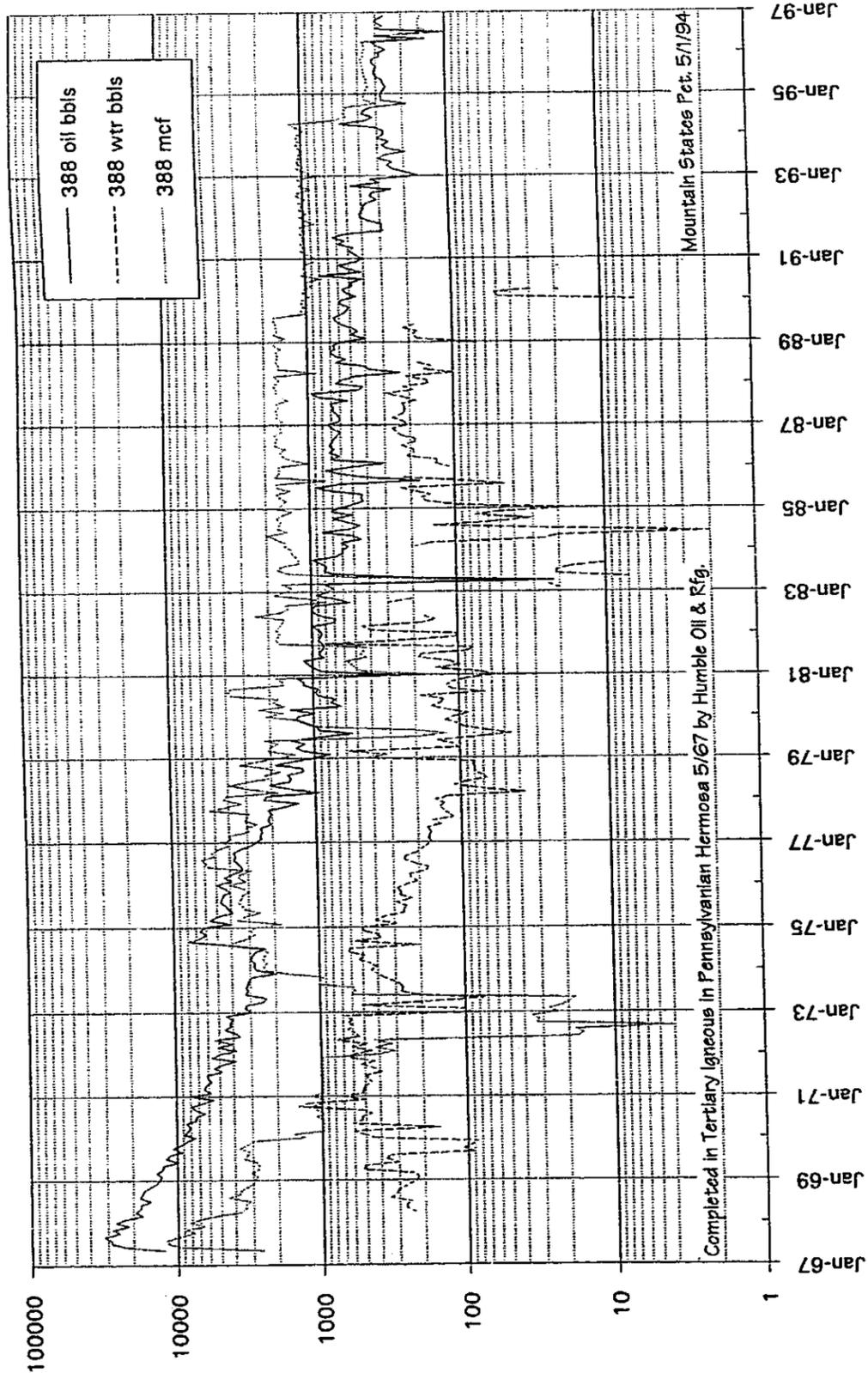
CANCELLED
DATE

ACTIVE

Permits covered by this bond:

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

MONTHLY PRODUCTION AT 1 NAVAJO-138 (388), ARIZONA: MAY 1967 - DEC 1996
 se ne 6-35n-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: 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: 505 623-7184
AREA CODE

COMPLETE IF APPLICABLE:

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

COMPANY SOLD TO: _____ EFFECTIVE DATE: _____

LEASES / AGREEMENTS AFFECTED: NAVAJO #138-1 (388) **AZ OIL & GAS CONSERVATION COMMISSION**

Dineh Bi Keyah Field - Apache County, Arizona

Lease #: 14-20-0603-8876

API #: 020012001200S1

JUN 8 1994

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

SIGNATURE: *Judy Burkhart*

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

Humble No. 607537
KM No. P689-74

LEASE No. 40915
CONTRACT No. 14-20-0603-8876

FORM 5-5429
AUG. 1961

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS

ASSIGNMENT OF MINING LEASE

WHEREAS, the Secretary of the Interior or his authorized representative has heretofore approved
oil and gas mining lease, dated January 15, 1965,
entered into by and between Chairman, Navajo Tribal Council, lessor,
and Humble Oil & Refining Company, lessee,

covering the following-described lands in the Navajo Tribal Indian Lands
in the State of Arizona, County of Apache, to-wit:
All of Section 6, Township 35 North, Range 30 East, G&SRM, Apache
County, Arizona, containing ^{615.014} 628.00 acres, more or less.

Now, THEREFORE, for and in consideration TEN DOLLARS (\$10.00) and other good
and valuable consideration (~~and other good and valuable consideration~~), the receipt of which is hereby acknowl-
edged, the said Humble Oil & Refining Company
the owner of the above-described lease, hereby bargains, sells, transfers, assigns, and conveys
all of its right, title, and interest in and to said lease,

subject to the approval of the Secretary of the Interior or his authorized representative Kerr-McGee
Corporation, Kerr-McGee Building, Oklahoma City, Oklahoma 73102
December 31, 1972, at 11:59 p.m., E. S. T., upon
Said assignment to be effective ~~upon~~ date of approval hereby by the Secretary
of the Interior or his authorized representative.

IN WITNESS WHEREOF, the said assignor has hereunto set its hand and seal, this 30
day of December, 1972.

ATTEST:

J. P. Price
Assistant Secretary

HUMBLE OIL & REFINING COMPANY
By: [Signature]
Vice President

FORM APPROVED

ACKNOWLEDGMENT OF CORPORATION

STATE OF Texas
COUNTY OF Harris

Before me, a notary public, in and for said county and State on this 22 day of December, 1972 personally appeared H. L. Siegele Vice President and acknowledged to me that he executed the same as his free and voluntary act and deed, and as the free and voluntary act and deed of such corporation, for the uses and purposes therein set forth.

My commission expires June 1, 1973. Notary Public: JEAN G. HUDDLESTON

ACKNOWLEDGMENT OF INDIVIDUAL, 1973

STATE OF
COUNTY OF

Before me, a notary public, in and for said county and State, on this day of 19 personally appeared

to me known to be the identical person who executed the within and foregoing instrument, and acknowledged to me that executed the same as free and voluntary act and deed for the uses and purposes therein set forth.

My commission expires, 19 Notary Public.

ACCEPTANCE BY ASSIGNEE

The assignee in the above and foregoing assignment, made subject to the approval of the Secretary of the Interior, hereby accepts such assignment and agrees to fulfill all the obligations, conditions, and stipulations in said described indenture of lease, when assigned, and the rules and regulations of the Secretary of the Interior applicable thereto, and to furnish proper bond guaranteeing a faithful compliance with said lease and this agreement.

IN WITNESS WHEREOF, the said assignee has hereunto set its hand and seal this 29th day of December, 1972.

ATTEST: KERR-McGEE CORPORATION By B. G. Taylor Vice President - J. G. Taylor Assistant Secretary - Carter G. Dudley

CONSENT OF SURETY

The of, of surety for on the bond accompanying the lease above described, hereby consents to the assignment and transfer of said lease as above made and agrees that said bond shall remain in force and effect covering obligations of assignee.

Dated at this day of 19

RECEIVED

MAR 02 1973

O & G CONS. COMM.

DEPARTMENT OF THE INTERIOR BUREAU OF INDIAN AFFAIRS FEB 15 1973

John J. ... Acting Area Director. ASSISTANT ATTY GENERAL

2-15-73

38A



KERR-McGEE CORPORATION

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

PHONE
806 376-7256

August 26, 1974

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

Gentlemen:

Enclosed are two each completed copies of your Form No.4 and Form No. 25 for the Kerr-McGee Corporation Navajo Tract 138 Well No.2 in Section 6, T35N, R30E, G&SRM Survey, Dineh-Bi-Keyah Field, Apache County, Arizona.

These forms cover the reperforating of the old perforated zone and refracturing of this zone. The workover appears to be a success. Previously it was producing 75 BOPD and now is producing 340 BOPD.

Sincerely yours,

KERR-McGEE CORPORATION

C.J. Breeden
District Production Superintendent

CJB:dt
Encl's:

38A

RECEIVED
AUG 28 1974
O & G CONS. COMM.

File



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

April 19, 1974

Mr. B. G. Taylor
Kerr-McGee Corporation
Kerr-McGee Building
Oklahoma City, Oklahoma 73102

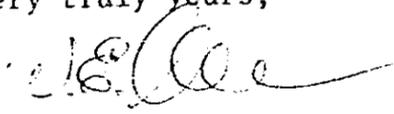
Re: Annual Pressure Tests
Dineh-bi-Keyah Field
Apache County, Arizona
Permit Nos. 377, 379, 396 & 388

Dear Mr. Taylor:

This letter is your authorization to suspend the annual pressure testing of certain designated wells in the Dineh-bi-Keyah Field.

At any time during the course of your operations that you do test any of the wells in this field, this Commission will expect to be furnished the results of such tests.

Very truly yours,


W. E. Allen, Director
Enforcement Section

WEA/rlb



B. G. TAYLOR, VICE PRESIDENT
OIL AND GAS PRODUCTION DIVISION

April 16, 1974

Arizona Oil & Gas Commission
4515 North 7th Avenue
Phoenix, Arizona 85013

Attention Mr. John Bannister

ANNUAL PRESSURE TESTS
DINEH BI KEYAH FIELD
APACHE COUNTY, ARIZONA

The field rules for the Dineh bi Keyah Field require that annual pressure tests be performed on certain designated wells in the field. In our opinion, these tests no longer provide useful data.

It is respectfully requested that Rule F of the field rules for the Dineh bi Keyah Field be rescinded so as to eliminate the well pressure testing requirement. We will, of course, be happy to provide the Commission with a copy of any pressure tests on the field wells should we decide to run additional such tests at some time in the future.

B. G. Taylor

B. G. Taylor

BGT/bs

388

RECEIVED

APR 17 1974
OIL AND GAS COMM.

WPA

 **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

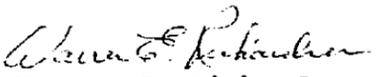
Attention: Mr. W. E. Allen
Director

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
District Manager
Southwestern District

WER/mm

RECEIVED

NOV 15 1973

U. S. GOVERNMENT PRINTING OFFICE

388

388



KERR-McGEE CORPORATION

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

August 6, 1973

PHONE
806 376-7256

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

RE: Annual Bottom Hole
Pressure Survey
Dineh-bi-Keyah Field
Apache County, Arizona

Gentlemen:

Enclosed is completed Form Number 7, Reservoir Pressure Report, showing the annual bottom hole pressure survey for the Navajo Well Numbers 1, 2 and 9, and Navajo Tract 138 Well Number 1. Also enclosed are the calculations and plots for this survey.

Sincerely yours,

KERR-McGEE CORPORATION

C. J. Breeden
District Production Superintendent

CJB/mm

Attachments

Copies to: USGS
Farmington, New Mexico

Navajo Tribe
Window Rock, Arizona

RECEIVED

AUG 08 1973

O & G CONS. COMM.

388



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



Associated with Donald Owens Co.

MIDLAND, TEXAS / FARMINGTON, NEW MEXICO

P. O. Box 5247
Midland, Texas 79701

AUG 2 1973

July 31, 1973

Kerr-McGee Corporation
P. O. Box 250
Amarillo, Texas 79105

Attention: Mr. Joe Breeden

Subject: Fluid Level Build Up Measurements
Four Wells
Dineh Bi Keyah Field
Apache County, Arizona
Our File NO. 2-5185-FL

Gentlemen:

Attached hereto are the results of fluid level build up measurements which were made in subject field July 10 and July 12, 1973.

The data presented are in tabular and graphical form.

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

Respectfully submitted,

TEFTELLER, INC.

Neil Tefteller
Neil Tefteller

NT/ct

RECEIVED
AUG 05 1973
O & G CONS. COMM.

388

July 31, 1973

Mr. C. J. Breeden
Kerr-McGee Corporation
626 Amarillo Petroleum Building
Amarillo, Texas 79105

Re: Comingled Oil Production
Navajo Tract 88 & 138 Leases
Dineh-bi-Keyah Field
Apache County, Arizona

Dear Mr. Breeden:

We have thoroughly studied your request regarding the comingling of oil produced in the Dineh-bi-Keyah Field and have also discussed the situation with Phil McGrath of the United States Geological Survey in Farmington.

If approval for the comingling of oil from the Navajo Tract 88 and 138 with the oil produced from the remainder of the Dineh-bi-Keyah Field receives no objections from the U.S.G.S. or the Navajo Tribe, then this Commission will concur with their approval.

If comingling is approved by all regulatory bodies, this Commission will still require the individual G.O.R. well test as it has in the past.

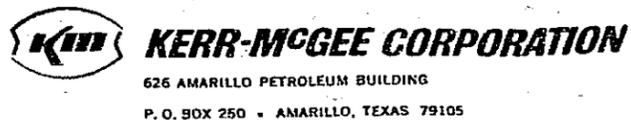
If we can be of any help to you in this matter, please let us know.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rld

318



July 25, 1973

PHONE
806 376-7256

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

Attention: Mr. John Bannister

Re: Commingled Oil Production
Navajo Tract 88 & 138 Leases
Dineh-bi-Keyah Field
Apache County, Arizona

Gentlemen:

Kerr-McGee Corporation requests permission to meter and commingle the production from Navajo Tract 88, Navajo Tribal Lease Number 14-20-0603-8812, and Navajo Tract 138, Navajo Tribal Lease Number 14-20-0603-8876, with the production from the Navajo Lease, Navajo Tribal Lease Number 14-20-0603-8823, and Navajo "B" Lease, Navajo Tribal Lease Number 14-20-0603-8889.

The production from these leases are handled in the following manner at the present time.

There are three (3) producing wells on the Navajo Tract 88. Well Numbers Two (2) and Three (3) are produced into four (4) 400 barrel tanks. Well Number One (1) is produced into another 400 barrel tank. This production is run through a LACT unit and then commingled with the Navajo and Navajo "B" production.

388

State of Arizona
July 25, 1973
Page -2-

Well Number One (1) is the only producing well on the Navajo Tract 138. It is producing into six (6) 400 barrel tanks. This production is run through a LACT unit and then commingled with the Navajo and Navajo "B" production.

The LACT units are powered by gas driven generators. Often last winter, fuel could not be transported to run these LACT units and casinghead gas was also unavailable. This caused considerable down time for these wells.

Kerr-McGee desires to replace the LACT unit and storage tank system with Floco positive displacement meters installed to meter the production from the Navajo Tract 88 Well Numbers Two (2) and Three (3) and Navajo Tract 138 Well Number One (1). The production from the Navajo Tract 88 Well Number One (1) will continue to be measured in a tank. A 400 barrel tank will be retained at both leases to test and calibrate the meters.

Kerr-McGee intends to install power lines to the above wells which will be metered. Electric motors will be used to power the pumping units and this should decrease the down time on these wells, which has been encountered with the gas engines, which are now being used for power. Kerr-McGee's power plant does not have sufficient generator capacity to include power for the LACT units on the Tract 88 and 138 Leases. The electrical system will be installed so the meter count from each of the metered wells can be recorded on a counter at the Kerr-McGee Warehouse. This will allow better observance of each wells performance.

Metering and commingling such as this has been approved for the Navajo "B" Lease by the United States Geological Survey and the Arizona Oil and Gas Conservation Commission. The working and royalty interest are identical for all of the producing leases in the field with Kerr-McGee Corporation owning all of the working interest in the field.

Granting this request will minimize the wells shut-down time due to inaccessibility of the locations during adverse weather conditions such as were encountered last winter.

State of Arizona
July 25, 1973
Page -3-

Your earliest possible approval of this proposal will be appreciated since this work needs to be completed before winter.

Sincerely yours,

KERR-MCGEE CORPORATION

C. J. Breeden

C. J. Breeden
District Production Superintendent

CJB/mm

WA



KERR-MCGEE CORPORATION

KERR-MCGEE BUILDING • OKLAHOMA CITY, OKLAHOMA 73102

B. G. TAYLOR, VICE PRESIDENT
OIL AND GAS PRODUCTION DIVISION

February 23, 1973

Arizona Oil & Gas Conservation
Commission
4515 North 7th Avenue
Phoenix, Arizona 85013

Attention Mr. John Bannister

As advised in our letter of January 2, 1973, we are enclosing for your file one xerox copy each of approved Assignment of Oil and Gas leases on Contract Nos. 14-20-0603-8812 and 14-20-0603-8879. The Bureau of Indian Affairs furnished us a carbon copy of each of these Assignments retaining the originals for their files.

B. G. Taylor

B. G. Taylor

BGT/bs

Enclosures

RECEIVED

MAR 02 1973

O & G CONS. COMM.

38A



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS
Navajo Area Office
Window Rock, Arizona 86515

IN REPLY REFER TO:
ARPM/Minerals

February 20, 1973

Kerr-McGee Corporation
Kerr-McGee Building
Oklahoma City, Oklahoma 73102

Attention: B. G. Taylor

Dear Mr. Taylor:

Enclosed are your copies of Assignment of Oil and Gas
leases on Contract Nos. 14-20-0603-8812 and 14-20-0603-
8879 which are approved effective February 15, 1973.
We have retained the original copies for our files.

Sincerely yours,

Thomas J. Smith
Realty Officer

Enclosures

RECEIVED

MAR 02 1973

O & G CONS. COMM.

388



January 8, 1973

Mr. C. D. Williams
District Manager
Kerr-McGee Corporation
P. O. Box 250
Amarillo, Texas 79105

Re: Humble Oil & Refining Navajo Tract 88 and Tract 138
Dineh-bi-Keyah Field, Apache County

Dear Mr. Williams:

In my telephone conversation with Mr. Breeden concerning the transferring of ownership on the above referenced leases from Humble to Kerr-McGee, we advised Mr. Breeden that we would need a copy of the instruments transferring ownership from Humble to Kerr-McGee or some other acceptable expression. Since talking with Mr. Breeden, we have notified him by letter dated January 2, 1973, that we would also need an affidavit from your bonding company accepting the responsibility of all the unplugged holes formerly belonging to Humble that your Company is now operating. We would appreciate this information as quickly as possible.

Attached are the approved copies of the Operator's Certificate of Compliance, Form 8.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rib

Enc.



KERR-McGEE CORPORATION

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

January 4, 1973

PHONE
805 376-7256

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

Attention John Bannister,
Executive Secretary

Dear Mr. Bannister:

As per the telephone conversation between Mr. Bill Allen with the Arizona Commission and Mr. Joe Breeden of Kerr-McGee's Amarillo office, Kerr-McGee Corporation took over operation of wells on Navajo Tract 138 and Navajo Tract 88, Dineh-bi-Keyah Field, Apache County, Arizona, from Humble Oil and Refining Company, effective January 1, 1973. Enclosed please find two copies of Form #8, Operator's Certificate of Compliance and Authorization to Transport Oil or Gas From Lease for Navajo Tract 138 and two copies for Navajo Tract 88.

Also enclosed for your files and records are two copies of U.S.G.S. Form 9-331, Sundry Notice and Reports on Wells, reporting the change in Operator for each of the wells on the two tracts. If additional information is needed at this time, please advise.

Yours very truly,

KERR-McGEE CORPORATION

C. D. Williams
District Manager
Southwestern District
Production Department

mww

cc: Navajo Tribe
Minerals Dept.

RECEIVED

JAN 08 1973

O & G CONS. COMM.



B. G. TAYLOR, VICE PRESIDENT
OIL AND GAS PRODUCTION DIVISION

January 2, 1973

Arizona Oil & Gas Conservation
Commission
4515 North 7th Avenue
Phoenix, Arizona 85013

Attention Mr. John Bannister

This will confirm verbal advice by our Mr. C. J. Breeden to Mr. Bill Allen with the Arizona Oil & Gas Conservation Commission December 28, 1972, that Humble Oil & Refining Company has assigned to Kerr-McGee Corporation Lease #40678, Contract #14-20-0603-8812, covering Sections 25, 26, 35 and 36-T36N-R29E, Apache County, Arizona, and Lease #40915, Contract #14-20-0603-8876, covering Section 6-T35N-R30E, Apache County, Arizona, both being in the Navajo Tribal Indian Lands. Such Assignments effective 11:59 p.m., EST, December 31, 1972.

Fully executed copy of the Assignments will be furnished you when approved by the Bureau of Indian Affairs, Department of Interior. Necessary Arizona Oil & Gas Conservation Commission lease operating forms will be filed with you by our Amarillo, Texas office.

A handwritten signature in cursive script that reads 'B. G. Taylor'.

B. G. Taylor, Vice President
Oil and Gas Production Division

BGT/bs

RECEIVED

JAN 05 1973

O & G CONS. COMM.

Arizona Oil & Gas
Conservation Commission
January 2, 1973
Page -2-

cc: Kerr-McGee Pipeline Corporation
Oklahoma City, Oklahoma

Mr. P. K. Hurlbut
Navajo Tribe
Window Rock, Arizona 86515

Humble Oil & Refining Company
P. O. Box 1600
Midland, Texas 79701

RECEIVED
JAN 05 1973
O & G CONS. COMM.



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

January 2, 1973

Mr. C. J. Breeden
Kerr-McGee Corporation
P. O. Box 250
Amarillo, Texas 79105

Re: Humble Navajo #138-1
SE/NW Sec 6-T35N-R30E
Apache County
Permit No. 388

Humble Navajo #88-1
SE/SE Sec 25-T36N-R29E
Apache County
Permit No. 421

Humble Navajo #88-2
SE/NE Sec 25-T36N-R29E
Apache County
Permit No. 431

Humble Navajo #88-3
SE/NE Sec 36-T36N-R29E
Apache County
Permit No. 443

Dear Mr. Breeden:

Please have your bonding company issue a statement to this Commission that they are willing to accept the responsibility on the above referenced wells and any other holes that you may have acquired from Humble. This statement from the bonding company will need to name the wells and give the legal description. Your early attention to this matter will be appreciated.

Very truly yours,


W. E. Allen, Director
Enforcement Section

WEA/r1b

January 25, 1972

Mr. J. Roy Dorrrough
Humble Oil & Refining Co.
Denver, Colorado 80201

Re: Humble #1 Navajo Tract #138 Humble #2, Navajo 88
SE/NW Section 6-T35N-R30E SE/NE Section 25-T36N-R29E
Apache County Apache County
Our File #388 Our File #431

Humble #3-88 Navajo
SE/NE Section 36-T36N-R29E
Apache County
Our File #443

Dear Mr. Dorrrough:

As of this date we have not received the Well Status Report and Gas Oil Ratio Test, Form 5, on the above referenced wells. This quarterly report is due January 20, 1972. Please arrange to forward these reports at your earliest convenience.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

Enc.

388

September 29, 1970

Mr. J. Roy Dorrrough
Humble Oil & Refining Company
P. O. Box 120
Denver, Colorado 80201

Re: Humble #1 Navajo 138
SE/4 NE/4 Sec. 6-T35N-R30E
Apache County
Our File #388

Dear Mr. Dorrrough:

As of this date we have not received the "Reservoir Pressure Report" on the above well.

This report is due in this office by the tenth day of August. Please arrange to forward the report on our Form 7 at your earliest convenience.

Very truly yours,

W. E. Allen
Director, Enforcement Section

WEA:jd
Enc.



HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

PRODUCTION DEPARTMENT
DENVER DISTRICT
J. R. DORROUGH
SUPERINTENDENT

September 24, 1969

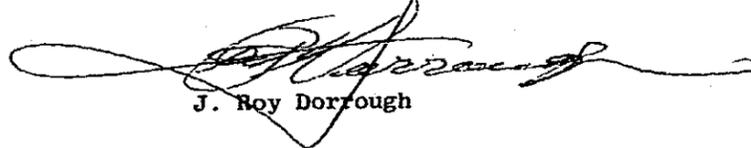
POST OFFICE BOX 120
TELEPHONE 534-1251

Mr. John Bannister
Executive Secretary
Oil & Gas Conservation Commission
State of Arizona
1624 West Adams, Room 202
Phoenix, Arizona

Dear Mr. Bannister:

Attached are two copies of Reservoir Pressure Report (Form No. 7) covering recent shut in subsurface pressures recorded at Navajo Tract 138 Well No. 1 and Navajo Tract 88 Well No. 2, Dineh bi Keyah Field, Apache County, Arizona.

Very truly yours,



J. Roy Dorrrough

Attach:



388

August 29, 1969

Mr. Marvin Smith
Humble Oil & Refining Company
P. O. Box 120
Denver, Colorado 80201

Re: Humble #1 Navajo 138
T35N, R30E, G & SRM
Sec. 6: SE/4 NW/4
Apache County
Permit #388

Dear Mr. Smith:

I am enclosing a copy of the testing program outlined for the Kerr-McGee #11 Navajo well. The penultimate paragraph is the narrative concerning the bottom hole pressure test as to the captioned well.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jf
Enc.

388

August 27, 1969

Mr. J. Roy Dorrough
Humble Oil & Refining Company
P. O. Box 120
Denver, Colorado 80201

Re: Humble #1 Navajo 138
T35N, R30E, G & SRM
Sec. 6: SE/4 NW/4
Apache County
Permit #388

Dear Mr. Dorrough:

Enclosed are a couple of forms for your use in complying with the bottom hole testing procedure on the captioned well. You recall that this procedure was outlined in Commission Order No. 24 dated August 16, 1967.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jf
Enc.

388



OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
ROOM 202
1624 WEST ADAMS
Phoenix, Arizona 85007
PHONE: 271-5161

June 12, 1969

Kerr-McGee Corporation
Kerr-McGee Building
Oklahoma City, Oklahoma 73102

Re: Case No. 36

Attention: Mr. John Fisher

Gentlemen:

Pursuant to Commission Order 21A dated May 21, 1969, a meeting was held in the Commission offices at 1624 West Adams Street, Phoenix, Arizona, at 1:00 p.m. on June 11, 1969.

Present at this meeting and representing Kerr-McGee Corporation were Mr. John I. Fisher and Bill P. Stauss. Present and representing Humble Oil Company were Kenneth H. Larson and J. K. Lytle. Present and representing the Oil and Gas Conservation Commission were John Bannister, James R. Scurlock and James Lambert. Also present and representing the Commission in his capacity as engineer was Ewell Walsh of Farmington, New Mexico.

The purpose of this meeting was to establish a testing program for Kerr-McGee Corporation's proposed well, the Kerr-McGee No. 11 Navajo, to be located in the NW/4 SE/4 of Section 32, Township 36 North, Range 30 East, Apache County, Arizona, and being a part of the Dineh-bi-Keyah Field.

As a result of this meeting, the following testing program has been established as satisfactory to this Commission. The program outlined below will be strictly adhered to and no deviation therefrom will be permitted.

TESTING PROGRAM

1. After the Kerr-McGee No. 11 Navajo Well has reached total depth, completed, and after load oil has been recovered (the initial potential test will be delayed until the first day of full production from this well),

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Kerr-McGee Corp.
6-12-69
Page 2

this well will be shut in until its bottom hole pressure has stabilized to within no more than a five pound pressure increase or less over a 24-hour period.

2. After the Kerr-McGee No. 11 Well has stabilized as set forth in Section 1 above, Kerr-McGee Nos. 1, 2, 3X and 4 Navajo Wells will be shut in for a continuous twelve hour period.
3. After the initial twelve hour shut in period as outlined in Section 2 above, Kerr-McGee No. 4 Well shall be put on production.
4. Twelve hours after Kerr-McGee No. 4 Navajo Well has been put on production, the Kerr-McGee No. 3X Navajo Well will be put on production.
5. Twelve hours after Kerr-McGee No. 3X Navajo Well has been put on production, the Kerr-McGee No. 2 Navajo Well will be put on production.
6. Twelve hours after Kerr-McGee No. 2 Navajo Well has been put on production, the Kerr-McGee No. 1 Navajo Well will be put on production.
7. Continuous bottom hole pressure readings shall be recorded in the Kerr-McGee No. 11 Navajo Well for a maximum period of 192 hours from the time that Kerr-McGee Nos. 1, 2, 3X and 4 Navajo Wells are shut in, as outlined in Section 2 above, or until there is evidence of interference in the Kerr-McGee No. 11 Navajo Well, whichever is the lesser time.

Should there be evidence of interference in this well prior to the 192 hours specified maximum time, Kerr-McGee Corporation will immediately notify the Commission at its Phoenix address. Should the Executive Secretary of the Commission be satisfied that there is evidence of interference, he may authorize a cessation of these tests. Should the Executive Secretary not be satisfied as to evidence submitted, test will continue for the full maximum 192 hours, as herein specified.

8. Upon completion of the tests as specified in Section 7 above, Kerr-McGee Corporation may commence the full production of the Kerr-McGee No. 11 Navajo Well.

Kerr-McGee Corp.
6-12-69
Page 3

Commission Order No. 24 dated August 16, 1967 establishes bottom hole pressure testing for certain key wells within the Dineh-bi-Keyah Field. Inasmuch as Kerr-McGee Nos. 1 and 2 Navajo Wells are designated in said order as key wells, the shut in time as above specified in Section 2 of the testing procedure may be used by Kerr-McGee Corporation for its stabilization period for the purpose of compliance with said Order No. 24.

The bottom hole pressure test as called for in said Order No. 24 as to the Kerr-McGee No. 9 Navajo Well and as to the Humble No. 1-138 Navajo Well, shall be conducted as soon as possible after the completion of the above set forth testing schedule.

Should you have any questions, please advise immediately.

Yours truly,

John Connister
John Connister
Executive Secretary

/vb

cc - Humble Oil Company
Att'n. J. K. Lytle

Ewell Walsh

Commissioners

U.S.G.S. - Farmington
Att'n. Phil McGrath

The Navajo Tribe
Att'n. P. K. Hurlbut

OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
ROOM 202
1624 WEST ADAMS
Phoenix, Arizona 85007
PHONE: 271-5161

X-Lambert
X-Chrono

April 10, 1968

Mr. J. Roy Dorrrough
Humble Oil & Refining Company
P. O. Box 120
Denver, Colorado 80201

Re: Humble #1 Navajo Tract 138	Our Permit 388
Humble #2 Navajo 88	Our Permit 431 X
Humble #3 Navajo 88	Our Permit 443 X
Humble Navajo #1-E	Our Permit 509 X
Humble Navajo #1	Our Permit 726 X

Dear Mr. Dorrrough:

This is in reference to our reminder letters dated March 3 and February 28. Please furnish this Commission a Gas-Oil Ratio Test on each of the captioned wells.

Yours truly,

James A. Lambert
Administrative Assistant

JF

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HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

DENVER DISTRICT

POST OFFICE BOX 120

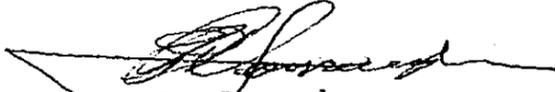
April 8, 1969

Arizona Oil & Gas Conservation Commission
1624 West Adams - Suite 202
Phoenix, Arizona 85007

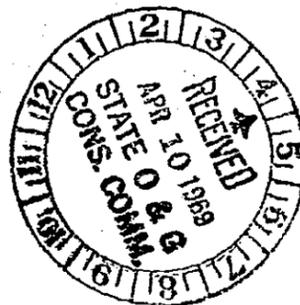
Gentlemen:

Attached please find "Well Status Report and Gas-Oil Ratio Tests" Form No. 5, on our Navajo Tract 130 #1 and Boundary Butte, East wells. Tests have been taken on our Navajo Tract 88 #2 and #3 but we do not have the gas volumes back from being integrated. We should have these within the next few days and will submit the report as soon as these volumes are available.

Very truly yours,


J. Roy Dorrrough

cc: Minerals Supervisor - Navajo Tribe



~~65~~
388

X-Chloro Log
X-Lambert Log

March 3, 1969

Mr. J. Roy Dorrough
Humble Oil & Refining Company
P. O. Box 120
Denver, Colorado 80201

Re: Humble #1 Navajo Tract 138 X-388
Humble #2 Navajo 88 X-431
Humble #3-88 Navajo X-443

Dear Mr. Dorrough:

We remind you that Rule 301A, Paragraph 2, of our Rules and Regulations directs the operator to make a semi-annual Gas-Oil Ratio Test of each producing oil well. The next test should be taken in March, 1969, and reported to this office by April 10, 1969.

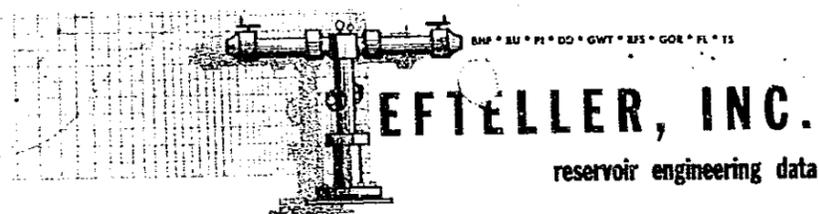
Enclosed are forms for your convenience.

Yours truly,

James A. Lambert
Administrative Assistant

jf

Enc.



Associated with Daniels Owens Co.

MIDLAND, TEXAS / FARMINGTON, NEW MEXICO

P. O. Box 5247
Midland, Texas 79701

July 29, 1968

Humble Oil & Refining Co.
P. O. Box "I"
Production Dept.
Farmington, New Mexico

Attention: Mr. H. L. Farris

Subject: Build Up Measurements
Navajo Tract 138 No. 1
Dineh Bi Keyah Field
Apache County, Arizona
Our File No. 2-2657-BU

Gentlemen:

Attached hereto are the results of build up measurements which were made on the above captioned well July 12 through July 13, 1968.

The data presented are in tabular and graphical form.

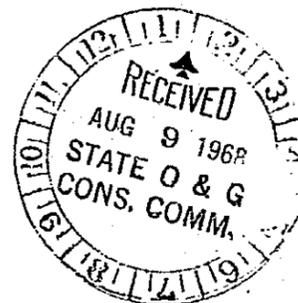
It has been our pleasure to have conducted this service for you. If we may be of further assistance, please contact us at anytime.

Respectfully submitted,

TEFTELLER, INC.

Neil Tefteller
Neil Tefteller

Ntcc



Serving the Permian Basin & Rocky Mountain Area



HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

DENVER DISTRICT

September 1, 1967

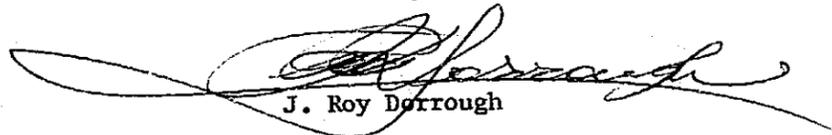
POST OFFICE BOX 120

Mr. John Bannister
Arizona Oil & Gas Conservation Commission
1624 West Adams, Suite 202
Phoenix, Arizona 85007

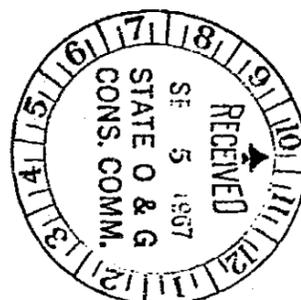
Dear Mr. Bannister:

Attached please find Reservoir Pressure Report, Form No. 7,
on our Navajo Tract 138 #1. This is per telephone conversation be-
tween you and M. D. Smith this date. If any additional data is
needed please advise.

Yours very truly,



J. Roy Dorrrough



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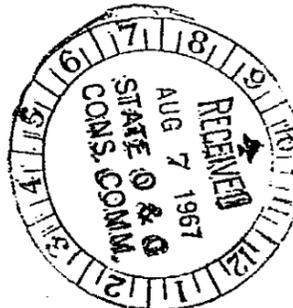
HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

DENVER DISTRICT

August 4, 1967

POST OFFICE BOX 120



Mr. John Bannister
Oil & Gas Conservation Commission
1624 West Adams - Suite 202
Phoenix, Arizona

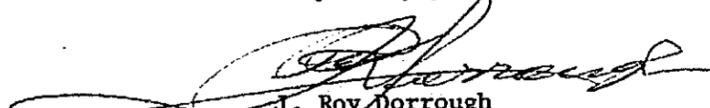
Dear Mr. Bannister:

By letter dated April 6, 1967, we requested the Oil and Gas Conservation Commission, State of Arizona, to keep all information on three wells, Navajo Tract 138 #1, Navajo Tract 140 #1, and Navajo Tract 141 #1, confidential.

This is to advise that Humble Oil & Refining Company no longer desires to keep the electric logs and drill stem test data on Navajo Tract 138 #1, SE NE, Section 6-35N-30E, Apache County, Arizona, confidential, and we hereby rescind the confidential status of this well. Humble does, however, consider all interpretive data such as gas analysis and core analysis as confidential at all times.

Similar letters are being furnished to the United States Geological Survey and to Mr. Henry Pohlmann of the Navajo Tribe.

Very truly yours,


J. Roy Dorrough
District Superintendent

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Roy-Dorrrough Humble

Kerr-McGee Line won't go to Humble
Humble will go to Kerr-McGee

Will meter into LACT ~~metered~~ unit

Will lay line to Kerr pipe line

Kerr-McGee Pipeline Corp. will be
~~the~~ transporter for our purposes

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June 9, 1967

Mr. Roger P. Frazier
Humble Oil & Refining Company
P.O. Box 120
Denver, Colorado 80201

Dear Mr. Frazier:

Re: Humble #1 Navajo 138
SE NW 6-35N-30E Apache County, Arizona
Permit 388

Please be advised that this commission has not received the gas/oil ratio report (Rule 301) as yet. Will you please submit this at your earliest convenience.

Re: Humble #1 Navajo 140
SE NE 8-35N-30E Apache County, Arizona
Permit 393

We have received notice that operations on captioned well, which you indicated is a helium well, will be temporarily suspended.

Please be advised that should Humble decide to keep this as a shut-in helium well it will be necessary that 640 acres be dedicated to this well (Rule 105.B) and that an application for an unorthodox location (Rule 105.D) be made prior to production.

I would further remind you that should work be suspended on this well in excess of 60 days, Rule 202.B would become applicable. Of course if this well is completed and then shut-in this latter step will not be necessary.

Re: Humble #1 Navajo 141
SE NW 9-35N-30E Apache County
Permit 394

Please be advised that this permit to drill will expire

Mr. Roger P. Frazier
June 9, 1967
Page 2

July 3, 1967, pursuant to Rule 102.A.3. You may request in writing an extension of this time and the commission may grant such.

If you have any questions, please advise.

Very truly yours,

John Bannister
Executive Secretary
BT



Associated with Dennis Owens Co.

MIDLAND, TEXAS / FARMINGTON, NEW MEXICO

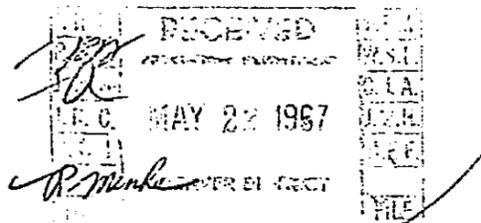
P. O. Box 5247
Midland, Texas 79702

May 17, 1967

Humble Oil & Refining Co.
P. O. Box 120
Denver, Colorado 80201

Attention: Mr. R. S. Frazier

Subject: Build Up Measurement
Navajo Tract 138 No. 1
Luka Field
Apache County, Arizona
Our File No. 2-2186-BU



Gentlemen:

Attached hereto are the results of a build up measurement which was made on the above captioned well May 9 through May 10, 1967.

The data presented are in tabular and graphical form.

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

Respectfully submitted,

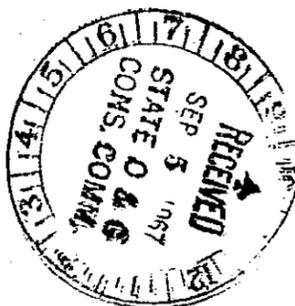
TEFTELLER, INC.

Neil Tefteller
Neil Tefteller

NTcc

Attach

cc . Humble Oil & Refining Co.
Production Dept.
Box "I"
Farmington, New Mexico



388

Serving the Permian Basin & Rocky Mountain Area

May 1, 1967

Humble Oil & Refining Company
P.O. Box 120
Denver, Colorado 80201

Attention: Mr. J. Roy Dorrough, District Superintendent

Re: Humble #1 Navajo Tract 138
SE NW 6-35N-30E Apache County
Our File 388

Gentlemen:

We are in receipt of your Operator's Certificate of Compliance and Authorization to Transport Oil or Gas from Lease as it pertains to captioned well.

Please be advised that we have no information at this time from your company concerning the completion, production capacity, etc. Consequently until such time as we are able to determine if this well is capable of producing, and receive other required information, we cannot act upon your request at this time.

Should you have any questions will you please advise.

Very truly yours,

John Bannister
Executive Secretary
nr



HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

April 6, 1967

DENVER DISTRICT

POST OFFICE BOX 120

Oil & Gas Conservation Commission
Mr. John Bannister
1624 West Adams - Suite 202
Phoenix, Arizona 85007

Dear Mr. Bannister:

By this letter we request the Oil and Gas Conservation Commission, State of Arizona, to keep all information on the following three wells confidential.

Navajo Tract 138 #1
SE NE Sec. 6-35N-30E, Apache County, Arizona

Navajo Tract 140 #1
SE NE Sec. 8-35N-30E, Apache County, Arizona

Navajo Tract 141 #1
SE NW Sec. 9-35N-30E, Apache County, Arizona

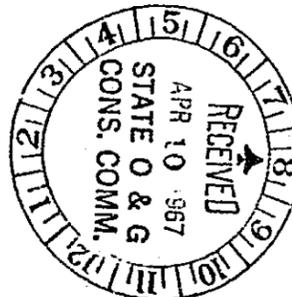
This letter is confirming verbal request and discussion with you by Mr. Roger S. Frazier on April 5, 1967. All future reports will be stamped "Confidential."

If any additional information is needed please notify us and it will be furnished.

Very truly yours,


J. Roy Dorrrough

cc: U.S. Geological Survey
Navajo Tribe - Mr. Henry F. Pohlmann



HUMBLE OIL & REFINING COMPANY

CENTRAL REGION

P. O. Box 120
Denver, Colorado 80201

March 27, 1967

Oil & Gas Conservation Commission
Mr. John Bannister
1624 West Adams - Suite 202
Phoenix, Arizona 85007

Dear Mr. Bannister:

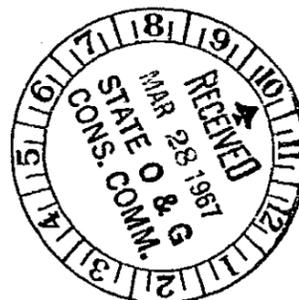
At the time the "Application for Permit to Drill" our Navajo Tract 138 #6-1 was submitted a Drilling Contractor had not been chosen. This is to inform you that the contract has been awarded to the following:

Mesa Drillers
P. O. Box 108
Lubbock, Texas 79408

If any further information is desired at any time, please do not hesitate to call on us.

Very truly yours,


J. Roy Borrough
District Superintendent



388

March 20, 1967

Humble Oil & Refining Company
P.O. Box 120
Denver, Colorado 80201

Attention: Mr. Roger Frazier, District Operations Supt.

Re: Humble #6-1 Navajo Tract 138
SE NW 6-35N-30E, Apache County, Arizona
Permit 388

Gentlemen:

Enclosed are Permit to Drill, approved Application to Drill,
and Receipt 9482 covering captioned well.

We have taken the liberty of showing the $\frac{1}{2}$ NE/4 as the dedi-
cation to this well. If this does not meet with your approval,
please advise.

In addition, when the name and address of your drilling con-
tractor is available, will you please advise.

By copy of this letter we are forwarding approved copy copy
of The American Insurance Company blanket bond 5-10-11-58,
to the Oklahoma City office, as requested. Should you desire
to terminate the two Federal Insurance Company individual
well bonds covering your two producing wells, it will be ne-
cessary that we have a letter from The American Insurance Com-
pany stating that these two wells are specifically included
within the coverage of its above blanket bond.

If you have any questions, or if this office may be of help
to you in any way, please contact us.

Very truly yours,

John Bannister
Executive Secretary
MB

cc: Humble Oil & Refining Co., Okla. City, Okla. w/enc
Attention: Mr. S.E. Key

HUMBLE OIL & REFINING COMPANY

OKLAHOMA CITY, OKLAHOMA 73106

CENTRAL DIVISION
J. L. ROBINSON
ACCOUNTING MANAGER

2000 CLASSEN CENTER—NORTH
JACKSON 8-2411

March 17, 1967

Oil & Gas Conservation Commission
State of Arizona
1624 W. Adams
Phoenix, Arizona 85007

Re: Blanket Drilling Bond -
Serial No. 5-10-11-58 - \$25,000
The American Insurance Company -
Effective date March 17, 1967

Gentlemen:

Attached is the original and one copy of the above described bond, which has been executed by Humble and The American Insurance Company, and countersigned by the resident agent for the surety.

If this bond meets with your approval, will you please acknowledge acceptance.

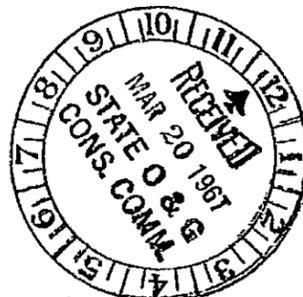
Yours very truly,


S. E. Key

SEK:lnp

cc: L. A. Dodd, Humble
Box 120, Denver, Colorado
File - 1.7

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