

(D-117)

Release Date 12-31-67

CONFIDENTIAL

CONFIDENTIAL

HUMBLE #1 Navajo-140
SE NE 8-35N-30E Apache County 302

COUNTY Apache AREA 17 mi SW Red Rock LEASE NO. Nav 14-20-0603-8877

WELL NAME Humble #1 Navajo-140

LOCATION SE NE SEC 8 TWP 35N RANGE 30E FOOTAGE 1650' FNL 660 FEL

ELEV 8628 GR 8635 KB SPUD DATE 4-27-67 STATUS TOTAL DEPTH 4854'
 COMP. DATE 5-16-68 P&A 10-14-69 4804' PBTD

CONTRACTOR Mesa Drillers

| CASING SIZE | DEPTH | CEMENT | LINER SIZE & DEPTH | DRILLED BY ROTARY |
|-------------|-------|----------|--------------------|------------------------------------------------|
| 10 3/4' | 1073 | 1050 SKS | NA | <input checked="" type="checkbox"/> |
| 7" | 4850 | 285 SKS | | <input type="checkbox"/> |
| | | | | DRILLED BY CABLE TOOL <input type="checkbox"/> |
| | | | | PRODUCTIVE RESERVOIR <input type="checkbox"/> |
| | | | | INITIAL PRODUCTION <input type="checkbox"/> |

| FORMATION TOPS | DEPTHS | SOURCE | | REMARKS |
|----------------|--------|--------|------|---------|
| | | L.L. | E.L. | |
| Coconino | 1464' | | x | |
| Cutler | 2240' | | | |
| Chert Zone | 3433' | | | |
| Ismay | 3623 | | | |
| Desert Creek | 3746' | | | |
| Akai | 3810' | | | |
| Mississippian | 4232' | | | |
| Devonian | 4397' | | | |
| McCracken | 4530' | | | |
| Aneth | 4643 | | | |
| Pre-Cambrian | 4778 | | | |

| ELECTRIC LOGS | PERFORATED INTERVALS | PROD. INTERVALS | SAMPLE LOG Am Strat |
|-------------------------|----------------------|-----------------|-------------------------|
| Borehole Comp. Sonic/GR | 4580-95 | 4580-95 | SAMPLE DESCRP. |
| IE | 4611-20 | 4611-20 | SAMPLE NO. <u>1424*</u> |
| | | | CORE ANALYSIS |
| | | | DSTs |
| | | | *Tucson 2093 |

REMARKS 6-2-67 Operations Suspended/6-20-67 Permission to Temp. abandon/6-13-67 gas analysis 5.23% helium 83.4% nitrogen/7-12-68 Temp. aband. pending.

APP. TO PLUG
 PLUGGING REP.
 COMP. REPORT

WATER WELL ACCEPTED BY _____

BOND CO. American Insurance Company BOND NO. 5-1--11-58
 BOND AMT. \$ 25,000 CANCELLED DATE 3-22-67
 FILING RECEIPT 9486 LOC. PLAT WELL BOOK PLAT BOOK
 API NO. 02-001-20017 DATE ISSUED 4-3-67 DEDICATION NE/4

PERMIT NUMBER 393 (over) Release Date 12-13-67

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 14-20-0603-8877 - Navajo Tract 140 | | Well Number 1 | Field & Reservoir Dineh bi Keyah |
| Location SE NE (1650' FNL & 660' FEL) of Sec. 8 | | County Apache | |
| Sec. TWP-Range or Block & Survey Sec. 8-35N-30E - G&SRM | | | |
| Date spudded 4-27-67 | Date total depth reached 5-26-67 | Date completed, ready to produce Temp. SI 5-16-68 | Elevation (DF, RKB, RT or Gr.) 8635' KB feet |
| Elevation of casing hd. flange 8623 feet | | | |
| Total depth 4854' | P.B.T.D. 4804' | 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 4580-95' & 4611-20' | | Rotary tools used (interval) 0-4854' | Cable tools used (interval) None |
| Was this well directionally drilled? No | Was directional survey made? No | Was copy of directional survey filed? - | Date filed - |
| Type of electrical or other logs run (check logs filed with the commission) IES & Gamma Ray-Sonic | | | Date filed June 1967 |

CASING RECORD

| Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.) | | | | | | |
|-------------------------------------------------------------------------------------------|-------------------|-----------------|------------------|-----------|--------------------------|-------------|
| Purpose | Size hole drilled | Size casing set | Weight (lb./ft.) | Depth set | Sacks cement | Amt. pulled |
| Surface | 15" | 10-3/4" | 32 & 51# | 1073' | 1050 | None |
| Production | 8-3/4" | 7" | 20 & 23# | 4850' | 285 / 5625# Gilsonite | None |

TUBING RECORD

LINER RECORD

| Size | Depth set | Packer set at | Size | Top | Bottom | Sacks cement | Screen (ft.) |
|------|-----------|---------------|------|-----|--------|--------------|--------------|
| in. | ft. | ft. | in. | ft. | ft. | ft. | |
| 2 | 4588 | 4558 | None | | | | |

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

| Number per ft. | Size & type | Depth Interval | Amt. & kind of material used | Depth Interval |
|----------------|-------------|---------------------|------------------------------------------------------|----------------------|
| 1 | Hyperjet | 4580-95' & 4611-20' | 500 gal 15% Acid & 32000 gal fluid with 30500# sand. | None Same |

INITIAL PRODUCTION

| | | | | | | |
|-------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------|--------------------------------------------|------------------------------------|
| Date of first production 5-2-68 | | Producing method (Indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:) Flow | | | | |
| Date of test 5-9-68 | Hrs. tested 24 | Choke size 3/4" | Oil prod. during test 0 bbls. | Gas prod. during test 1579 MCF | Water prod. during test 32 bbls. | Oil gravity - API (Corr) |
| Tubing pressure 110# | Casing pressure | Cal'd rate of Production per 24 hrs. | Oil 0 bbls. | Gas 1579 MCF | Water 32 bbls. | Gas-oil ratio - |

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 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 2-26-69

Signature J. Roy Dorrrough



Permit No. **393**

Form No. 4

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

(Complete Reverse Side)

DETAIL OF FORMATIONS PENETRATED

| Formation | Top | Bottom | Description* |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------|--------------|
| Coconino | 1464 | 2240 | |
| Cutler | 2240 | 3433 | |
| Chert Zone | 3433 | 3623 | |
| Ismay | 3623 | 3746 | |
| Desert Creek | 3746 | 3810 | |
| Akah | 3810 | 4232 | |
| Mississippian | 4232 | 4397 | |
| Devonian | 4397 | 4530 | |
| McCracken | 4530 | 4643 | |
| Aneth | 4643 | 4778 | |
| Pre-Cambrian | 4778 | 4854 TD | |
| No cores cut. | | | |
| <p>DST #1 - 4532-4633', initial open 4 minutes, shut-in 1 hour, opened 2 hours, final shut-in 1 hour. Opened with immediate good blow buildup in 30 minutes. 11 psi on 2" orifice, 1-1/4" plate at rate of 1612 MCFGPD. HH 2446-2446. FP 145-218. SIP 896-868. Recovered 320' mud, no water. Gas would not burn.</p> | | | |
| <p>DST #2 - 4663-4806', initial open 4 minutes, shut-in 1 hour, open to flow for 2 hours, final shut-in 3 hours. Opened with fair blow gradually increasing after 15 minutes reached maximum flow of 101 MCFGPD. 1/2" orifice 8 psi, after 2 hours gauged 46 MCF through 1/4" orifice 29 psi. Recovered 500 feet of mud, no water. HH 2270-2213. FP 56-169. SIP 869-855. Gas would not burn.</p> | | | |

* 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.

PLUGGING RECORD

| | | | |
|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Operator Humble Oil & Refining Company | | Address P. O. Box 120, Denver, Colorado 80201 | |
| Federal, State, or Indian Lease Number, or lessor's name if fee lease. 14-20-0603-0077 - Navajo Tract 140 | | Well No. 1 | Field & Reservoir Dineh bi Keyah |
| Location of Well SE NE (1650' FNL & 660' FEL) of Section 8-35N-30E - G&SRM | | Sec-Twp-Rge or Block & Survey | County Apache |
| Application to drill this well was filed in name of Humble Oil & Refining Co. - Navajo Tract 140 | Has this well ever produced oil or gas On test only. | Character of well at completion (initial production): Oil (bbls/day) Gas (MCF/day) Dry? Temp. Abd. - None Commercial | |
| Date plugged: 10-14-69 | Total depth 4854' | Amount well producing when plugged: Oil (bbls/day) Gas (MCF/day) Water (bbls/day) None None None | |
| Name of each formation containing oil or gas. Indicate which formation open to well-bore at time of plugging | Fluid content of each formation | Depth interval of each formation | Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount cement |
| McCracken | Gas | 4530-4643' | See attached copy of U.S.G.S. Report for complete plugging summary. |

CASING RECORD

| Size pipe | Put in well (ft.) | Pulled out (ft.) | Left in well (ft.) | Give depth and method of parting casing (shot, ripped, etc.) | Packers and shoes |
|-----------|-------------------|------------------|--------------------|--------------------------------------------------------------|-------------------|
| 7" | 4850' | None | 4850' | - | - |
| 10-3/4" | 1073' | None | 1073' | - | - |
| | | | | | |
| | | | | | |

Was well filled with mud-laden fluid, according to regulations? **Yes** Indicate deepest formation containing fresh water. **Chuska**

NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE

| Name | Address | Direction from this well: |
|--------------------------------------------------|--------------------------------|---------------------------|
| Kerr-McGee Oil Company | Oklahoma City, Oklahoma | North |
| No other adjacent operators. | | |
| Navajo Tribe of Indians owns all surface. | | |

In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required.

Use reverse side for additional detail.

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 **10-24-69**

Signature *J. Roy Dorrrough*
J. Roy Dorrrough

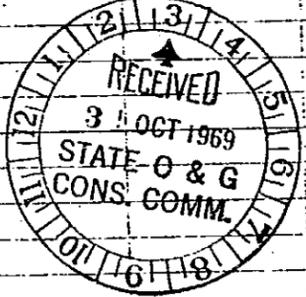
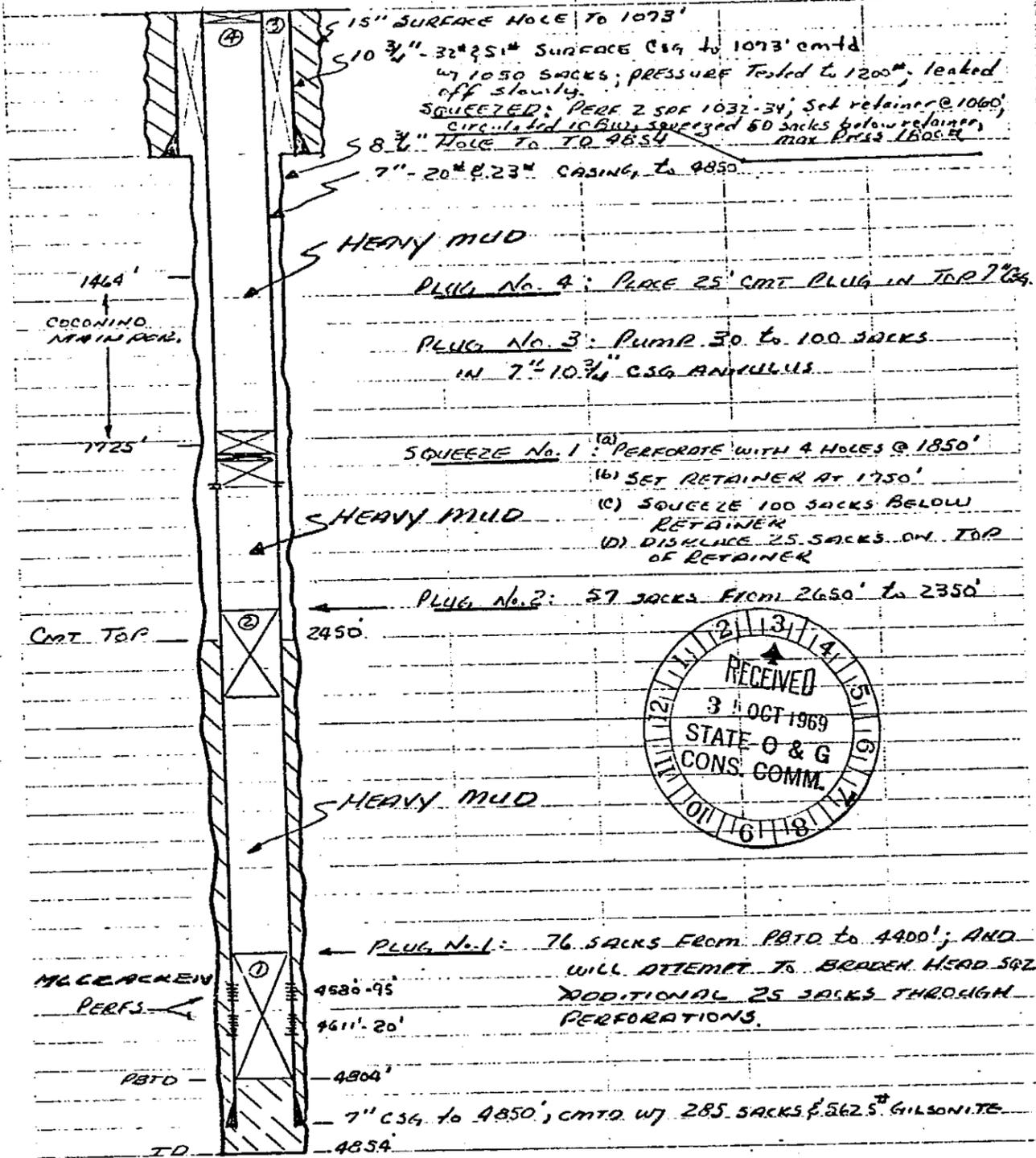


STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Plugging Record
File One Copy

Permit No. **393**

Form No. 10

WELL BORE SKETCH



NOTE: 1) TOP OF 7" CASING, 7" CSG, 10 3/4" CSG ANNULUS, AND CASING HEAD SIDE OUTLETS WILL BE CAPPED WITH WELDED PLATES

HUMBLE OIL & REFINING CO.
 PROPOSED PLUGGING PROCEDURE
NAVAJO TRACT 140, WELL No. 1
 SE NE SEC 8-35N-R30E
APACHE CO, ARIZONA

353

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

| | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------|
| 1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Non Commercial - Temp. Abandoned. | | 5. LEASE DESIGNATION AND SERIAL NO. 14-20-0603-8877 |
| 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 (1650' FNL & 660' FEL) of Section 8 | | 8. FARM OR LEASE NAME Navajo Tract 140 |
| 14. PERMIT NO. Arizona #393 | | 9. WELL NO. 1 |
| 15. ELEVATIONS (Show whether DF, AT, GR, etc.) 8635' KB | | 10. FIELD AND POOL, OR WILDCAT Dineh bi Keyah |
| | | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 8-35N-30E - G&SRM |
| | | 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 type="checkbox"/> | ABANDONMENT* <input checked="" 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.)

Moved in rig, killed well and displaced mud to 4804'. Displaced 101 sx cement at 4804'. Pulled tubing out of cement, set packer and squeezed 25 sx through perforations 4580-95' and 4611-20' at 700 psi. Pulled tubing to 2650', displaced 57 sx cement and pulled tubing. Checked top of cement at 2265' with Schlumberger gun. Perforated 5 holes at 1850'. Ran tubing with permanent type cement retainer set at 1750'. Squeezed 100 sx cement at 800# pressure. Pulled tubing out of retainer. Placed 25 sx cement on top of retainer. Pulled tubing and placed 25' cement plug in top of 7" casing. Pumped 100 sx cement in annulus between 7" and 9-5/8" casing. At finish had 250# pressure and cement stood in top of casing. Checked later - annulus standing full of cement.

Welded a steel plate across top of 7" and casing annulus. Capped casing head side outlets with welded steel plates. Regulation dry hole marker welded onto steel plate. Job complete 10-14-69.

Location is cleaned and ready for inspection.

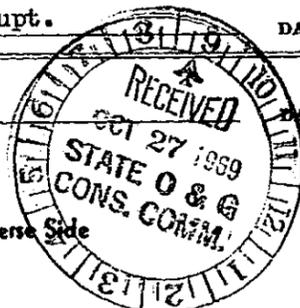
cc: Mr. Perry K. Hurlbut - Minerals Supervisor - Navajo Tribe
Mr. Cato Sells - Water Development - Navajo Tribe

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

SIGNED [Signature] TITLE Dist. Supt. DATE 10-24-69
(This space for Federal or State office use)

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

*See Instructions on Reverse Side



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4

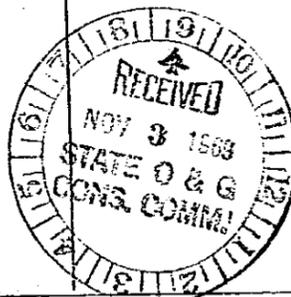
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R356.5.
LAND OFFICE _____
LEASE NUMBER 14-20-0603-8877
UNIT _____

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 October, 1969,
Agent's address P. O. Box 120 Company Humble Oil & Refining Company
Denver, Colorado 80201 Signed _____
Phone 534-1251 Agent's title Dist. Supt.

| SEC. AND 1/4 OF 1/4 | TWP. | RANGE | WELL No. | DAYS PRODUCED | BARRELS OF OIL | GRAVITY | CU. FT. OF GAS (In thousands) | GALLONS OF GASOLINE RECOVERED | BARRELS OF WATER (If none, so state) | REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas) |
|---------------------------------------------------------------------------------------------|------|-------|----------|---------------|----------------|---------|-------------------------------|-------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------|
| HAVAJO TRACT 140 - ARIZONA PERMIT NO. 393 | | | | | | | | | | |
| Sec. 8 SE NE | 35N | 30E | 1 | 0 | | | | | | Well plugged and abandoned 10-14-69. |
| 4- | | | | | | | | | | FINAL REPORT |
| cc: 2 - Arizona Oil & Gas Conservation Commission 1 - 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 gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

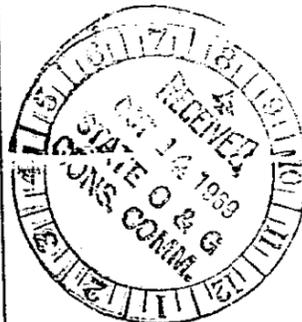
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R356.5.
LAND OFFICE _____
LEASE NUMBER 4-20-0603-8877
UNIT _____

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 September, 1969.
Agent's address P. O. Box 120 Company Humble Oil & Refining Company
Denver, Colorado 80201 Signed _____
Phone 534-1251 Agent's title Dist. Supt.

| SEC. AND 1/4 OF 1/4 | TWP. | RANGE | WELL NO. | DAYS PRODUCED | BARRELS OF OIL | GRAVITY | CU. FT. OF GAS (In thousands) | GALLONS OF GASOLINE RECOVERED | BARRELS OF WATER (If none, so state) | REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas) |
|-------------------------------------------------------------------------|------|-------|----------|---------------|----------------|---------|-------------------------------|-------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------|
| NAVAJO TRACT 140 - ARIZONA PERMIT NO. 393 | | | | | | | | | | |
| Sec. 8 SE NE 9 ^h | 35N | 30E | 1 | 0 | | | | | | Operations suspended 5-16-68. See Sundry Notice dated 6-17-68. No work has been done since this date. |
| SUNDRY NOTICE APPLICATION TO PLUG AND ABANDON SUBMITTED 9-30-69. | | | | | | | | | | |



NOTE: CONTINUE IN TEMPORARY ABANDONED STATUS PER LETTER DATED 7-12-68 AND YOUR APPROVAL OF 7-17-68. ALSO YOUR LETTER DATED 7-10-68 GRANTING APPROVAL TO CONTINUE IN THIS STATUS UNTIL 6-16-70.

cc: 2 - Arizona Oil & Gas Conservation Commission
1 - 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 gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-8356.5.

LAND OFFICE _____
LEASE NUMBER 14-20-0503-8877
UNIT _____

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Arizona County Apache Field Dineh bi Keyah
The following is a correct report of operations and production (including drilling and producing wells) for the month of July + Aug., 19 69,
Agent's address P. O. Box 120 Company Humble Oil & Refining Company
Denver, Colorado 80201 Signed [Signature]
Phone 534-1251 Agent's title Dist. Supt.

| SEC. AND 1/4 OF 1/4 | TWP. | RANGE | WELL No. | DATE PRODUCED | BARRELS OF OIL | GRAVITY | CU. FT. OF GAS (In thousands) | GALLONS OF GASOLINE RECOVERED | BARRELS OF WATER (If none, so state) | REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas) |
|---------------------|------|-------|----------|---------------|----------------|---------|-------------------------------|-------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------|
|---------------------|------|-------|----------|---------------|----------------|---------|-------------------------------|-------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------|

NAVAJO TRACT 140 - ARIZONA PERMIT NO. 393

4V Sec. 8 SE NE

35N 30E 1 0

Operations suspended 5-16-68. See Sundry Notice dated 6-17-68. No work has been done since this date.

NOTE: CONTINUE IN TEMPORARY ABANDONED STATUS PER LETTER DATED 7-12-68 AND YOUR APPROVAL OF 7-17-68. ALSO YOUR LETTER DATED 7-10-69 GRANTING APPROVAL TO CONTINUE IN THIS STATUS UNTIL 6-16-69.

cc: 2 - Arizona Oil & Gas Conservation Commission
1 - 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 gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

LAND OFFICE _____
LEASE NUMBER 14-20-0603-8877
UNIT _____

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 June, 1969,
Agent's address P. O. Box 120 Company Humble Oil & Refining Company
Denver, Colorado 80201 Signed [Signature]
Phone 534-1251 Agent's title Dist. Supt.

| SEC. AND 1/4 OF 1/4 | TWP. | RANGE | WELL NO. | DATE PRODUCED | BARRELS OF OIL | GRAVITY | CU. FT. OF GAS (In thousands) | GALLONS OF GASOLINE RECOVERED | BARRELS OF WATER (If none, so state) | REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas) |
|------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|----------|---------------|----------------|---------|-------------------------------|-------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------|
| NAVAJO TRACT 140 - ARIZONA PERMIT NO. 393 | | | | | | | | | | |
| Sec. 8 SE NE | 35N | 30E | 1 | 0 | | | | | | Operations suspended 5-16-68. See Sundry Notice dated 6-17-68. No work has been done since this date. |
|  | | | | | | | | | | |
| NOTE: CONTINUE IN TEMPORARY ABANDONED STATUS PER LETTER DATED 7-12-68 AND YOUR APPROVAL OF 7-17-68. | | | | | | | | | | |
| This well was not included in your letter dated 6-12-69 granting approval to continue in this status until 6-16-1970, which we hereby request. | | | | | | | | | | |
| <p>APPROVED</p> <p><u>[Signature]</u></p> <p><u>7/12/69</u></p> | | | | | | | | | | |
| cc: <input checked="" type="checkbox"/> - Arizona Oil & Gas Conservation Commission 1 - 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 gasoline during the month. (Write "no" where applicable.)
NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 5th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

LAND OFFICE _____
LEASE NUMBER 14-20-0603-8877
UNIT _____

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Arizona County Apache Field Dineh bi Keyah
The following is a correct report of operations and production (including drilling and producing wells) for the month of July, 1968, thru Mar 1969
Agent's address P. O. Box 120 Company Wamble Oil & Refining Company
Denver, Colorado 80201 Signed [Signature]
Phone 534-1251 Agent's title Dist. Supt.

| SEC. AND 1/4 OF 1/4 | TWP. | RANGE | WELL NO. | DATE PRODUCED | BARRELS OF OIL | GRAVITY | CU. FT. OF GAS (in thousands) | GALLONS OF GASOLINE RECOVERED | BARRELS OF WATER (if none, so state) | REMARKS (if drilling, depth; if shut down, cause; date and result of test for gasoline content of gas) |
|-----------------------------------------------------------------------------------------------------|------|-------|----------|---------------|----------------|---------|-------------------------------|-------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------|
| NAVAJO TRACT 140 - ARIZONA PERMIT NO. 393 | | | | | | | | | | |
| Sec. 8 SE NE | 35N | 30E | 1 | 0 | | | | | | Operations suspended on 5-16-68. See Sundry Notice dated 6-17-68. No work has been done since this date. |
| NOTE: CONTINUE IN TEMPORARY ABANDONED STATUS PER LETTER DATED 7-12-68 AND YOUR APPROVAL OF 7-17-68. | | | | | | | | | | |



cc: 2 - Arizona Oil & Gas Conservation Commission
1 - 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 gasoline during the month. (Write "no" where applicable.)
NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.
Form 9-329 (January 1950) GPO 837-082 16-25766-9 U. S. GOVERNMENT PRINTING OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

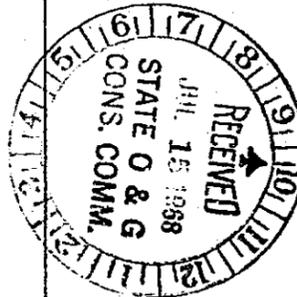
Form approved.
Budget Bureau No. 42-R356.5.

LAND OFFICE _____
LEASE NUMBER _____
UNIT _____

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 June, 1968,
Agent's address P. O. Box 120 Company Humble Oil & Refining Company
Denver, Colorado 80201 Signed [Signature]
Phone 534-1251 Agent's title Dist. Chief Engineer

| SEC. AND 1/4 OF 1/4 | TWP. | RANGE | WELL NO. | DATE PRODUCED | BARRELS OF OIL | GRAVITY | CU. FT. OF GAS (In thousands) | GALLONS OF GASOLINE RECOVERED | BARRELS OF WATER (If none, so state) | REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas) |
|--------------------------------------------------|------|-------|----------|---------------|----------------|---------|-------------------------------|-------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| NAVAJO TRACT 140 - ARIZONA PERMIT NO. 393 | | | | | | | | | | |
| Sec. 8 SE NE 35N | | 30E | 1 | 0 | | | | | | Perforated 4580-95' & 4611-20'. Fractured, cleaned up and tested at rate of 1579MCFGPD. Shut in on 5-16-68. Temp. Abd. letter being submitted. |



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

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329
(January 1960)

393

GPO 837-082

16-25785-9 U. S. GOVERNMENT PRINTING OFFICE

Form 9-331
(May 1963)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.
14-20-0603-8877

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Navajo Tract 140

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Dineh bi Keyah

11. SEC., T., R., M., OR BEK. AND SURVEY OR AREA
Sec. 8-35N-30E - G457M

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 (1650' FHL & 660' FEL) of Section 8

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, CR, etc.)
Arizona #393 8635' 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 <input type="checkbox"/> | ABANDONMENT* <input type="checkbox"/> |
| REPAIR WELL <input type="checkbox"/> | CHANGE PLANS <input type="checkbox"/> | (Other) <u>Completion Attempt</u> <input checked="" type="checkbox"/> | |

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

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

Perforated 4580-95' and 4611-20'. Overnight shut in pressure was 739#. Flowed at rates from 1539 to 1656 MCFGPD. Spotted 500 gallons 15% acid on bottom, fractured with 32,000 gallons CaCl water and 30,500# sand. Maximum pressure 2800#, average pressure 2500#, average injection rate 45 BPH, immediate shut in pressure 2000#, after 15 minutes 700#. Swabbed in and flowed to clean up. Flowed at rate of 1579 MCFGPD. Shut in on 5-16-68.



cc: 4 - Arizona Oil & Gas Conservation Commission
1 - Minerals Supervisor - Navajo Tribe

18. I hereby certify that the foregoing is true and correct
SIGNED J. Roy Dorrrough TITLE Dist. Supt. DATE 6-17-68
(This space for Federal or State office use)

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

393

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

LAND OFFICE 14-20-0603-8877
LEASE NUMBER _____
UNIT _____

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Arizona County Apache Field Dineh bi Keyah
The following is a correct report of operations and production (including drilling and producing wells) for the month of May, 1968,
Agent's address P. O. Box 120 Company Humble Oil & Refining Company
Denver, Colorado 80201 Signed _____
Phone 534-1251 Agent's title _____

| SEC. AND 1/4 OF 1/4 | TWP. | RANGE | WELL No. | DATE PRODUCED | BARRELS OF OIL | GRAVITY | CU. FT. OF GAS (In thousands) | GALLONS OF GASOLINE RECOVERED | BARRELS OF WATER (If none, so state) | REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas) |
|--------------------------------------------------|------|-------|-------------|------------------|----------------|---------|----------------------------------|-------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| NAVAJO TRACT 140 - ARIZONA PERMIT NO. 393 | | | | | | | | | | |
| Sec. 8 SE NE | 35N | 30E | 1 | 0 | | | | | | Perforated 4580-95' & 4611-20'. Fractured, cleaned up and tested at rate of 1579 MCFOPD shut in on 5-16-68. |

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

no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

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 140 #1
 Location SE NE (1650' FNL & 660' FEL) of Section 8
 Sec 8 Twp 35N Rge 30E County Apache, Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-0603-8877

5. Field or Pool Name Dineh bi Keyah

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

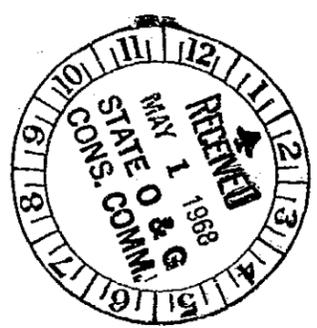
| | | | |
|----------------------------------------------|-----------------------------------------------|------------------------------------------------|-------------------------------------------|
| NOTICE OF INTENTION TO: | | SUBSEQUENT REPORT OF: | |
| TEST WATER SHUT-OFF <input type="checkbox"/> | PULL OR ALTER CASING <input type="checkbox"/> | WATER SHUT-OFF <input type="checkbox"/> | 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) _____ | ABANDONMENT <input type="checkbox"/> |
| (OTHER) <u>Perforate & Test</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.)

This well was temporarily abandoned on 5-28-67 and suspension of operations approved by your letter of 6-9-67. We now plan to perforate and test the McCracken Formation from 4580' to 4620'. Stimulation treatments (Acid and/or Frac) may be used if necessary.

In the event the well is completed as a shut-in Helium well we will submit a change of acreage dedication in accordance with Rule 105.B and application for an unorthodox location in accordance with Rule 105.D.



8. I hereby certify that the foregoing is true and correct.
 Signed J. Roy Dorrrough Title Dist. Supt. Date 4-30-68

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

Permit No. 393

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

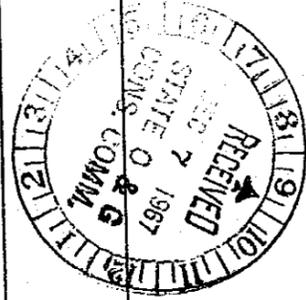
LAND OFFICE _____
LEASE NUMBER 14-20-0603-8877
UNIT _____

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 November, 1967, thru March 1968
Agent's address P. O. Box 120 Company Humble Oil & Refining Company
Denver, Colorado 80201 Signed [Signature]
Phone 534-1251 Agent's title Dist. Supervising Engineer

| SEC. AND 1/4 OF 1/4 | TWP. | RANGE | WELL NO. | DATA PRODUCED | BARRELS OF OIL | GRAVITY | CU. FT. OF GAS (In thousands) | GALLONS OF GASOLINE RECOVERED | BARRELS OF WATER (If none, so state) | REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas) |
|-----------------------------------------------|------|-------|----------|---------------|----------------|---------|-------------------------------|-------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------|
| NAVAJO TRACT 140 - ARIZONA PERMIT #393 | | | | | | | | | | |
| Sec. 8 SE NE | 35N | 30E | 1 | 0 | | | | | | Temp. Abd. 5-28-67. See Sundry Notice dated 6-2-67. No work has been done since this date. |

CONFIDENTIAL



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

NOTE.—There were 0 runs or sales of oil; 0 M cu. ft. of gas sold;
0 runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

LAND OFFICE 14-20-0603-8877
LEASE NUMBER _____
UNIT _____

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 June thru Oct 1967
Agent's address P. O. Box 120 Company Esable Oil & Refining Company
Denver, Colorado 80201 Signed 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, depth; if shut down, cause; date and result of test for gasoline content of gas) |
|----------------------------|------------|------------|----------|---------------|----------------|---------|-------------------------------|-------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------|
| NAVAJO TRACT 140 | | | | | | | | | | |
| SEC. 8 | | | | | | | | | | |
| SE 1/4 | 35N | 30E | 1 | | | | | | | Temp. Abd. 5-28-67. TD 4854'. |
| Arizona Permit #393 | | | | | | | | | | |

CONFIDENTIAL



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

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

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
14-20-0603-8877

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
-

8. FARM OR LEASE NAME
Navajo Tract 140

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Dineh bi Keyah

11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA
Sec. 8-35N-30E G&SRM

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
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 State requirements. See also space 17 below.)
At surface
SE NE (1650' FNL & 660' FEL) of Section 8-35N-30E.

14. PERMIT NO.
393 - Arizona

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
8623' GR & 8635' KB

CONFIDENTIAL
#2270 Complete

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

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

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

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

Drilled 8-3/4" hole to TD of 4854'. Set 7" OD 20# & 23# J-55 & N-80 casing at 4850' and cemented with 225 sacks 50-50 Pozmix "S", Class C, with 2% gel, 25# Gilsomite per sack, followed by 60 sacks Class C cement with 6% gel. Job complete 5-27-67. Top of cement by temperature survey 2450'.
No cores cut.

DST #1: 4532-4633'. Open 4 minutes, immediate strong blow. Shut in 1 hour, open 2 hours, shut in 2 hours. Opened with immediate strong blow, continued throughout test. rate remained steady for last 1 1/2 hours. Gas volume last part of test gauged at 1230 MCFPD (corrected) with no liquid to surface. Gas would not burn. Recovered 320' of drilling mud. IHP 2246#, ISIP 897#, IFF 145#, FFP 218#, FSIP 868#, FHP 2246#.

DST #2: 4663-4906'. Open 4 minutes with fair to strong blow. Shut in 1 hour, open 2 hours, shut in 3 hours. Opened with weak to fair steady blow increasing slightly throughout test. Volumes: 45 minutes 25 MCFPD; 60 minutes 32 MCFPD; 75 minutes 37 MCFPD; 90 minutes 42 MCFPD; 105 minutes 41 MCFPD; 120 minutes 46 MCFPD. Recovered 500' of drilling mud. Gas would not burn. IHP 2270#, ISIP 869#, IFF 56#, FFP 169#, FSIP 855#, FHP 2213#, temperature 120°.

Preliminary analysis of gas by Bureau of Mines at Shiprock shows Helium content of 4.91% on DST #1 and 5.21%. Complete analysis will be furnished when available from Bureau of Mines. Operations will now be suspended for an indeterminate time pending possible market and no completion attempt will be made at this time. You will be notified when operations resume and after completion or other disposition is completed a final completion "Log of Well" will be submitted. Electric Logs will be furnished under separate cover as soon as copies are available, probably within the next few days. (Over)

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

SIGNED [Signature] TITLE **Dist. Operations Supt.** DATE **6-2-67**

(This space for Federal or State office use)

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

cc: 2 - Arizona Oil & Gas Conservation Commission
1 - Mr. Henry F. Pohmann, Minerals Supervisor, Navajo Tribe. #2270 Complete

See instructions on Reverse Side

CONFIDENTIAL

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General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, other than those shown below, or will be issued by, or may be obtained from, the local Federal and/or State office. Consult local State or Federal office for specific instructions.

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

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment, data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of packing of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site configured for final inspection looking to approval of the abandonment.

DETAILS OF FORMATIONS PENETRATED

| Formation | Top | Bottom | Description |
|---------------|---------|--------|----------------------------------------------------------------------------------|
| Chuska | Surface | 1009' | Loose sand |
| Chinle | 1009' | 1464' | Red shale & silt. |
| Coconino | 1464' | 2240' | Sandstone & conglomerate. |
| Cutler | 2240' | 3410' | Limestone, light grey to light grey & shale, reddish brown. |
| Hermosa | 3410' | 3623' | Red & orange shale, siltstone & fine sandstone. |
| Imay | 3623' | 3746' | Limestone, buff to light grey, cherty, shaley at base. |
| Desert Creek | 3746' | 3810' | Limestone, white to light grey & shale, grey. |
| Ahah | 3810' | 3979' | Limestone, dark grey & shale, green, waxy. |
| Barker Creek | 3979' | 4232' | Limestone, light grey-brown, finely crystalline, algal with mottled brown shale. |
| Mississippian | 4232' | 4397' | Limestone, white to buff, dense, oolitic. |
| Devonian | 4397' | 4530' | Shale, grey-green & dolomite, buff to grey. |
| McCracken | 4530' | 4643' | Sandstone, clear to white, quartzose. |
| Aneth | 4643' | 4778' | Dolomite, white to buff. |
| Pre-Cambrian | 4778' | 4854' | Pink granite. |



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-B356.5.

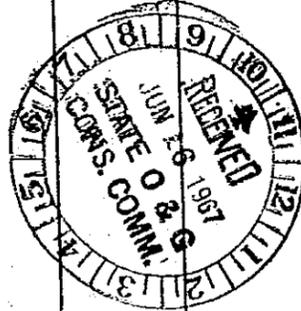
LAND OFFICE _____
LEASE NUMBER 14-20-0603-8877
UNIT _____

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Arizona County Apache Field Dineh bi Keyah
The following is a correct report of operations and production (including drilling and producing wells) for the month of May, 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. | DAYS PRODUCED | BARRELS OF OIL | GRAVITY | CU. FT. OF GAS (In thousands) | GALLONS OF GASOLINE RECOVERED | BARRELS OF WATER (If none, so state) | REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas) |
|-------------------------|------|-------|----------|---------------|----------------|---------|-------------------------------|-------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------|
| NAVAJO TRACT 140 | | | | | | | | | | |
| Sec. 8 SE NE | 35N | 30E | 1 | 0 | 0 | | 0 | | | Operations suspended 5-28-67. See Sundry Notice dated 6-2-67. |
| Arizona Permit #393 | | | | | | | | | | |

CONFIDENTIAL



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

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

no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

REPORT OF ANALYSIS

F.S.- 10964 M.S.N-31534 ,H 5.11 OBS. PRES. 68.4 CAL. PRES. 67.8

STATE- ARIZONA COUNTY- APACHE

FIELD- DINEH BI KEYAH WELL NAME-NAVAJO TRACT 140 NO. 1

LOCATION-SEC. 8, T35N, R30E OWNER- HUMBLE OIL & REFINING CO.

DATE COMPLETED- DRILLING DATE SAMPLED- 05-23-67

SAMPLED BY- G. ASHLAND

NAME OF PRODUCING FORMATION- MCCRACKEN

DEPTH IN FEET- 4532 THICKNESS IN FEET- 33

SHUT IN ~~KEYAH~~ PRES., PSIG- 897 OPEN FLOW, MCF/D- 1500

CHECK OF DATA-
 THE WELL DATA ARE ACCURATE, ~~.....WITHOUT CORRECTION.....~~ AS CORRECTED ABOVE.

REMARKS-

CONFIDENTIAL

ANALYSIS-

| | | | | | |
|---------------|-------|----------------|--------|----------|---------|
| METHANE | 2.2 % | NORMAL PENTANE | 0.0 % | OXYGEN | 0.0 % |
| ETHANE | .2 % | ISOPENTANE | 0.0 % | ARGON | .8 % |
| PROPANE | .1 % | CYCLOPENTANE | 0.0 % | HYDROGEN | TRACE % |
| NORMAL BUTANE | .2 % | HEXANES PLUS | 0.0 % | H2S | 0.0 % |
| ISOBUTANE | 0.0 % | NITROGEN | 83.4 % | CO2 | 7.8 % |
| SPECIFIC GRAV | .964 | | | HELIUM | 5.18 % |
| | | | | TOTAL | 99.9 % |

CALCULATED GROSS BTU/CU FT, DRY AT 60 DEG F AND 30 IN. MERCURY- 35.

PERMISSION FOR RELEASE-
 PERMISSION IS HEREBY GRANTED FOR THE BUREAU OF MINES TO RELEASE THE ABOVE DATA, TOGETHER WITH SIMILAR DATA RELEASED BY OTHER OPERATORS AS PUBLIC INFORMATION AND AS PARTS OF A SERIES OF PAPERS ON ANALYSES OF GASES FROM VARIOUS FIELDS, STATES, OR REGIONS.

COMPANY.....
 BY.....
 TITLE.....

393
 28

DINEH BI KEYAH FIELD, ARIZONA

PRODUCED GAS COMPOSITION
Analyses by USBM - Amarillo, Texas

| PRODUCER | Humble | | Humble |
|-------------------|---------------------|-------|--------------------|
| WELL | Navajo Tract 140-#1 | | Unit 87-1 |
| LOCATION | Section 8-35N-30E | | Section 23-36N-29E |
| FORMATION | Devonian | | Devonian |
| ZONE | McCracken | Aneth | |
| COMPOSITION | Mol-% | Mol-% | Mol-% |
| Hydrogen | Trace | Trace | Trace |
| Helium | 5.2 | 5.2 | 5.6 |
| Nitrogen | 83.5 | 78.7 | 78.9 |
| Oxygen | .0 | .0 | .3 |
| Argon | .8 | .8 | .8 |
| Hydrogen Sulfide | .0 | .0 | .0 |
| Carbon Dioxide | 7.8 | 11.1 | 10.6 |
| Methane | 2.2 | 3.4 | 3.1 |
| Ethane | .2 | .5 | .4 |
| Propane | .1 | .2 | .2 |
| Butanes & Heavier | .2 | .2 | .1 |
| TOTAL | 100.0 | 100.0 | 100.0 |

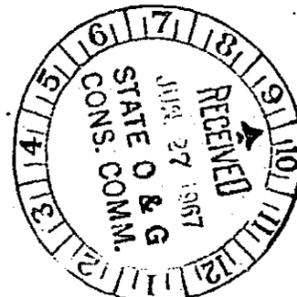
Analysis by Phone from J.A. Adams R.D. Miller
USBM
Amarillo

R.D. Miller
USBM
Amarillo

CONFIDENTIAL

CNV/bn
6/13/67

323



24

REPORT OF ANALYSIS

F.S.- 10967 M.S.N-31596 ,H 5.14 OBS. PRES. 67.6 CAL. PRES. 68.2
 STATE- ARIZONA COUNTY- APACHE
 FIELD- DINEH BI KEYAH WELL NAME-NAVAJO TRACT 140 NO. 1
 LOCATION-SEC 8, T35N, R30E OWNER- HUMBLE OIL & REFINING CO.
 DATE COMPLETED- DST. NO. 2 DATE SAMPLED- 05-25-67
 SAMPLED BY- G. ASHLAND
 NAME OF PRODUCING FORMATION- ANETH
 DEPTH IN FEET- 4663 THICKNESS IN FEET- 22
 SHUT IN WELLHEAD PRES.,PSIG- OPEN FLOW, MCF/D- 60

CHECK OF DATA-
 THE WELL DATA ARE ACCURATE,WITHOUT CORRECTION,AS CORRECTED ABOVE.

REMARKS-

CONFIDENTIAL

ANALYSIS-

| | | | | | |
|---------------|-------|----------------|--------|----------|---------|
| | | NORMAL PENTANE | 0.0 % | OXYGEN | 0.0 % |
| ETHANE | .5 % | ISOPENTANE | 0.0 % | ARGON | .8 % |
| PROPANE | .2 % | CYCLOPENTANE | 0.0 % | HYDROGEN | TRACE % |
| NORMAL BUTANE | .2 % | HEXANES PLUS | 0.0 % | H2S | 0.0 % |
| ISOBUTANE | 0.0 % | NITROGEN | 78.7 % | CO2 | 11.1 % |
| SPECIFIC GRAV | .980 | | | HELIUM | 5.23 % |
| | | | | TOTAL | 100.1 % |

CALCULATED GROSS BTU/CU FT, DRY AT 60 DEG F AND 30 IN. MERCURY- 55.

PERMISSION FOR RELEASE-
 PERMISSION IS HEREBY GRANTED FOR THE BUREAU OF MINES TO RELEASE THE ABOVE
 DATA, TOGETHER WITH SIMILAR DATA RELEASED BY OTHER OPERATORS AS PUBLIC
 INFORMATION AND AS PARTS OF A SERIES OF PAPERS ON ANALYSES OF GASES FROM
 VARIOUS FIELDS, STATES, OR REGIONS.

COMPANY.....

BY.....

TITLE.....

77B

5-24-67

Telcon/George Ashland, Humble

Re: #1 Navajo 140

Doing DST tomorrow, 5-25-67

Had some gas blows yesterday---having samples analysed.

393

30

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 140 #1

Location SE NE (1650' FNL & 660' FEL) of Section 8-35N-30E G&SRM

Sec. 8 Twp. 35N Rge. 30E County Apache, Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-0603-8877

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>Change of Acreage Dedication</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.)

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. 8-35N-30E Apache County, Arizona.

CONFIDENTIAL

RECEIVED
MAY 24 11 17 AM '67
STATE OF ARIZONA
OIL & GAS
CONSERVATION COMMISSION

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

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

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

Permit No. 393

HA - 1 (2/2/68)

REPORT OF ANALYSIS

well files

F. S. - 11521 M.S. N-39780 ,H 4.72 OBS. PRES. 66.5 CAL. PRES. 62.6

STATE- ARIZONA COUNTY- APACHE

FIELD- DINAH-BI-KEYAH WELL NAME- NAVAJO TRACT 140 NO. 1

LOCATION- SEC. 8, T35N, R30E OWNER- HUMBLE OIL+REFINING CO.

DATE COMPLETED- 05/23/68 DATE SAMPLED- 05/23/68

SAMPLED BY- DON EASTWOOD

NAME OF PRODUCING FORMATION- MCCRACKEN

DEPTH IN FEET- 4570 THICKNESS IN FEET- 50

SHUT IN WELLHEAD PRES., PSIG- 702 OPEN FLOW, MCF/D- 1600

CHECK OF DATA- THE WELL DATA ARE ACCURATE, () WITHOUT CORRECTION, () AS CORRECTED ABOVE.

REMARKS-

ANALYSIS-

| | | | | | |
|---------------|-------|----------------|--------|----------|---------|
| METHANE | 2.0 % | NORMAL PENTANE | 0.0 % | OXYGEN | 0.0 % |
| ETHANE | .3 % | ISOPENTANE | 0.0 % | ARGON | .8 % |
| PROPANE | .2 % | CYCLOPENTANE | 0.0 % | HYDROGEN | 0.0 % |
| NORMAL BUTANE | 0.0 % | HEXANES PLUS | 0.0 % | H2S | 0.0 % |
| ISOBUTANE | 0.0 % | NITROGEN | 84.4 % | CO2 | 7.2 % |
| SPECIFIC GRAV | .962 | | | HELIUM | 5.08 % |
| | | | | TOTAL | 100.0 % |

CALCULATED GROSS BTU/CU. FT., DRY AT 60 DEG. F AND 30 IN. MERCURY- 31.

PERMISSION FOR RELEASE:

Permission is hereby granted for the Bureau of Mines to release the above data, together with similar data released by other operators as public information and as parts of a series of papers on analyses of gases from various fields, states, or regions.



1-21-69

COMPANY Humble Oil & Refining Company

BY *J. Roy Dorrrough*
TITLE District Superintendent

Denver, Colorado

393

15

REPORT OF ANALYSIS

F.S.- 10964 M.S.N-31534 ,H 5.11 CBS. PRES. 68.4 CAL. PRES. 67.8
 STATE- ARIZONA COUNTY- APACHE
 FIELD- DINEH BI KEYAH WELL NAME-NAVAJO TRACT 140 NO. 1
 LOCATION-SEC. 8, T35N, R30E OWNER- HUMBLE OIL & REFINING CO.
 DATE COMPLETED- DRILLING DATE SAMPLED- 05-23-67
 SAMPLED BY- G. ASHLAND
 NAME OF PRODUCING FORMATION- MCCRACKEN
 DEPTH IN FEET- 4532 THICKNESS IN FEET- 33
 SHUT IN ~~WELL~~ PRES., PSIG- 897 OPEN FLOW, MCF/D- 1500

CHECK OF DATA-
 THE WELL DATA ARE ACCURATE, ~~WITHOUT CORRECTION~~ AS CORRECTED ABOVE.

REMARKS-

CONFIDENTIAL

ANALYSIS-

| | | | | | |
|---------------|-------|----------------|--------|----------|---------|
| METHANE | 2.2 % | NORMAL PENTANE | 0.0 % | OXYGEN | 0.0 % |
| ETHANE | .2 % | ISOPENTANE | 0.0 % | ARGON | .8 % |
| PROPANE | .1 % | CYCLOPENTANE | 0.0 % | HYDROGEN | TRACE % |
| NORMAL BUTANE | .2 % | HEXANES PLUS | 0.0 % | H2S | 0.0 % |
| ISOBUTANE | 0.0 % | NITROGEN | 83.4 % | CO2 | 7.8 % |
| SPECIFIC GRAV | .964 | | | HELIUM | 5.18 % |
| | | | | TOTAL | 99.9 % |

CALCULATED GROSS BTU/CU FT, DRY AT 60 DEG F AND 30 IN. MERCURY- 35.

PERMISSION FOR RELEASE-
 PERMISSION IS HEREBY GRANTED FOR THE BUREAU OF MINES TO RELEASE THE ABOVE
 DATA, TOGETHER WITH SIMILAR DATA RELEASED BY OTHER OPERATORS AS PUBLIC
 INFORMATION AND AS PARTS OF A SERIES OF PAPERS ON ANALYSES OF GASES FROM
 VARIOUS FIELDS, STATES, OR REGIONS.

1-21-69

COMPANY Humble Oil & Refining Company
 BY *J. Roy Dorrrough*
 J. Roy Dorrrough
 TITLE District Superintendent
 Denver, Colorado



393

16

REPORT OF ANALYSIS

F.S.- 10967 M.S.N-31596 ,H 5-14 OBS. PRES. 67.6 CAL. PRES. 68.2
 STATE-- ARIZONA COUNTY-- APACHE
 FIELD-- DINEH BI KEYAH WELL NAME-NAVAJO TRACT 140 NO. 1
 LOCATION--SEC 8, T35N, R30E OWNER-- HUMBLE OIL & REFINING CO.
 DATE COMPLETED-- DST. NO. 2 DATE SAMPLED-- 05-25-67
 SAMPLED BY-- G. ASHLAND
 NAME OF PRODUCING FORMATION-- ANETH
 DEPTH IN FEET-- 4663 THICKNESS IN FEET-- 22
 SHUT IN WELLHEAD PRES.,PSIG-- OPEN FLOW, MCF/D-- 60

CHECK OF DATA--
 THE WELL DATA ARE ACCURATE,WITHOUT CORRECTION,AS CORRECTED ABOVE.
 REMARKS--

CONFIDENTIAL

ANALYSIS--

| | | | | | |
|---------------|-------|----------------|--------|----------|---------|
| METHANE | 3.4 % | NORMAL PENTANE | 0.0 % | OXYGEN | 0.0 % |
| ETHANE | .5 % | ISOPENTANE | 0.0 % | ARGON | .8 % |
| PROPANE | .2 % | CYCLOPENTANE | 0.0 % | HYDROGEN | TRACE % |
| NORMAL BUTANE | .2 % | HEXANES PLUS | 0.0 % | H2S | 0.0 % |
| ISOBUTANE | 0.0 % | NITROGEN | 78.7 % | CO2 | 11.1 % |
| SPECIFIC GRAV | .980 | | | HELIUM | 5.23 % |
| | | | | TOTAL | 100.1 % |

CALCULATED GROSS BTU/CU FT, DRY AT 60 DEG F AND 30 IN. MERCURY-- 55.

PERMISSION FOR RELEASE--
 PERMISSION IS HEREBY GRANTED FOR THE BUREAU OF MINES TO RELEASE THE ABOVE
 DATA, TOGETHER WITH SIMILAR DATA RELEASED BY OTHER OPERATORS AS PUBLIC
 INFORMATION AND AS PARTS OF A SERIES OF PAPERS ON ANALYSES OF GASES FROM
 VARIOUS FIELDS, STATES, AND REGIONS.
 1-21-69



COMPANY Humble Oil & Refining Company
 BY *J. Roy Dorrrough*
 J. Roy Dorrrough
 TITLE District Superintendent
 Denver, Colorado

393

17

5-10-67 Dwg 2942

5-12-67 Plan to core about 5-14-67. Will call
& notify me at home. JS

5-17 ϕ 3888 Have not core yet.

5-17 logging (Bill Green - Humble)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THIS MANNER (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1424.

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

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 (1650' FNL & 660' FEL) Section 8-35N-30E

5. LEASE DESIGNATION AND SERIAL NO.
14-20-0603-8877

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT/AGREEMENT NAME

8. FARM OR LEASE NAME
Navajo Tract 140

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. 8-35N-30E GASRM

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

14. PERMIT NO.
393 - Arizona

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
8628' Ungraded Ground

CONFIDENTIAL

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

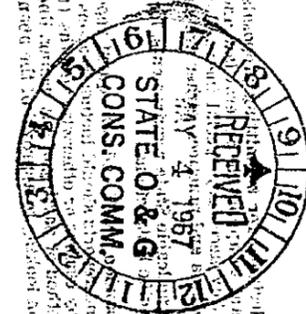
| | | | |
|----------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------|
| NOTICE OF INTENTION TO: | | SUBSEQUENT REPORT OF: | |
| TEST WATER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

Spudded 4-27-67. Drilled 15" hole to 1077', 8-5/8" hole to 1094'. Ran 34 jts. of 10-3/4" OD 32.75# J-55 and 1 jt. 10-3/4" OD 51# N-80 casing and set at 1073' KB. Cemented with 1050 sacks cement with 2% CaCl. WOC. Pressure tested casing and BOP to 1200#, leaked off slowly. Drilled float and guide shoe in casing, no cement. Perforated 2 SPF 1032-34'. Set Halliburton DM 10-3/4" cement retainer at 1060'. Squeeze cemented with 50 sacks cement. Circulating pressure 300# and maximum pressure 1800# while squeezing. WOC 18 hours. Drilled retainer at 1060' and hard cement to 1073'. Job complete 4-30-67.

CONFIDENTIAL



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

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

SIGNED Roger A. Frazier TITLE Dist. Operations Supt. DATE 5-2-67

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

393

*See Instructions on Reverse Side

CONFIDENTIAL

CONFIDENTIAL UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

Budget Bureau No. 42-R711.4
 Approval expires 12-31-60.

ALLOTTEE _____
 TRIBE Navajo
 LEASE No. 14-20-0603-8877

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, 1967.
 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, depth; if shut down, cause; date and result of test for gasoline content of gas) |
|-------------------------|------|-------|----------|---------------|----------------|---------|-------------------------------|-------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------|
| NAVAJO TRACT 140 | | | | | | | | | | |
| Sec. 8 SE NE | 35N | 30E | 1 | | | | | | | TD 1117'. WOC after squeeze cementing Surface Casing. Spudded 4-27-67. |

CONFIDENTIAL



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

NOTE.—There were No runs or sales of oil; No M. cu. ft. of gas sold;
No runs or sales of gasoline during the month. (Write "no" where applicable.)
 NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

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393

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

This information will be furnished by letter when contract is awarded.

Drilling Contractor

Address

DESCRIPTION OF WELL AND LEASE

| | | |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Federal, State or Indian Lease Number, or if fee lease, name of lessor Navajo Tract 140 (14-20-0603-8877) | Well number 1 | Elevation (ground) 8628' Ungraded |
| Nearest distance from proposed location to property or lease line: 660 feet | Distance from proposed location to nearest drilling completed or applied—for well on the same lease: This is 1st well on lease feet | |
| Number of acres in lease: 640 | 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 |
| | | |

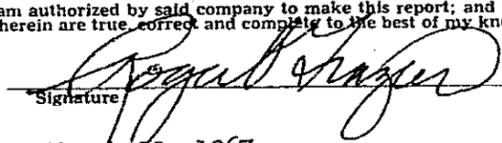
| | | |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Well location (give footage from section lines) 1650' FNL & 660' FEL | Section—township—range or block and survey Sec. 8-35N-30E G. & S. R. M. | Dedication (Comply with Rule 105) 80 Acres (E$\frac{1}{2}$-NE$\frac{1}{4}$) |
| Field and reservoir (if wildcat, so state) Unnamed | County Apache | |

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

| | | |
|---------------------------------|------------------------------------------------------|--------------------------------------------------------------------------|
| Proposed depth: 4100' | Rotary or cable tools Rotary | Approx. date work will start Road & Loc. soon as possible. |
| Bond Status Blanket Bond | Organization Report On file ** Or attached | Filing Fee of \$25.00 Attached X <i>Check # 4818</i> |

Remarks:
**** Filed or being filed by our Houston Office.**

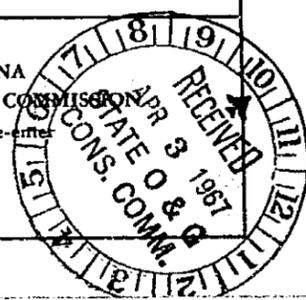
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Dist. Operations Supt. of the Humble Oil & Refining Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.


 Signature
 Date **March 30, 1967**

Permit Number: **393**
Approval Date: **4-3-67**
Approved By: *John V. Bannister*
Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

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

Form No. 3



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

| Owner | Land Description |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | |
| | <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;"><i>Roger S. Frazier</i></p> <p>Name Roger S. Frazier</p> <p>Position Dist. Operations Supt.</p> <p>Company Humble Oil & Refining Co.</p> <p>Date March 30, 1967</p> <p>I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.</p> <p>Date Surveyed March 11, 1967</p> <p>Registered Professional Engineer and/or Land Surveyor See attached Surveyors Plat</p> <p>Certificate No.</p> |

PROPOSED CASING PROGRAM

| Size of Casing | Weight | Grade & Type | Top | Bottom | Cementing Depths | Sacks Cement |
|----------------|--------|--------------|-----|--------|------------------|------------------------------------------------------|
| 10-3/4" OD | 40.5# | J-55 | 0 | 800' | 800' | Circ. to surface Sufficient to cover all pays. |
| 7" OD | 20# | J-55 | 0 | 4100' | 4100' | |



PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION,
STATE OF ARIZONA,

To: HUMBLE OIL AND REFINING COMPANY
(OPERATOR)

to drill a well to be known as

HUMBLE #1 NAVAJO 140
(WELL NAME)

located 1650' YNL and 660' FEL (SE NE)

Section 8 Township 35N Range 30E, Apache County, Arizona.

The E/2 of 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 3rd day of April, 19 67.

OIL AND GAS CONSERVATION COMMISSION

By John Bonmaster
EXECUTIVE SECRETARY

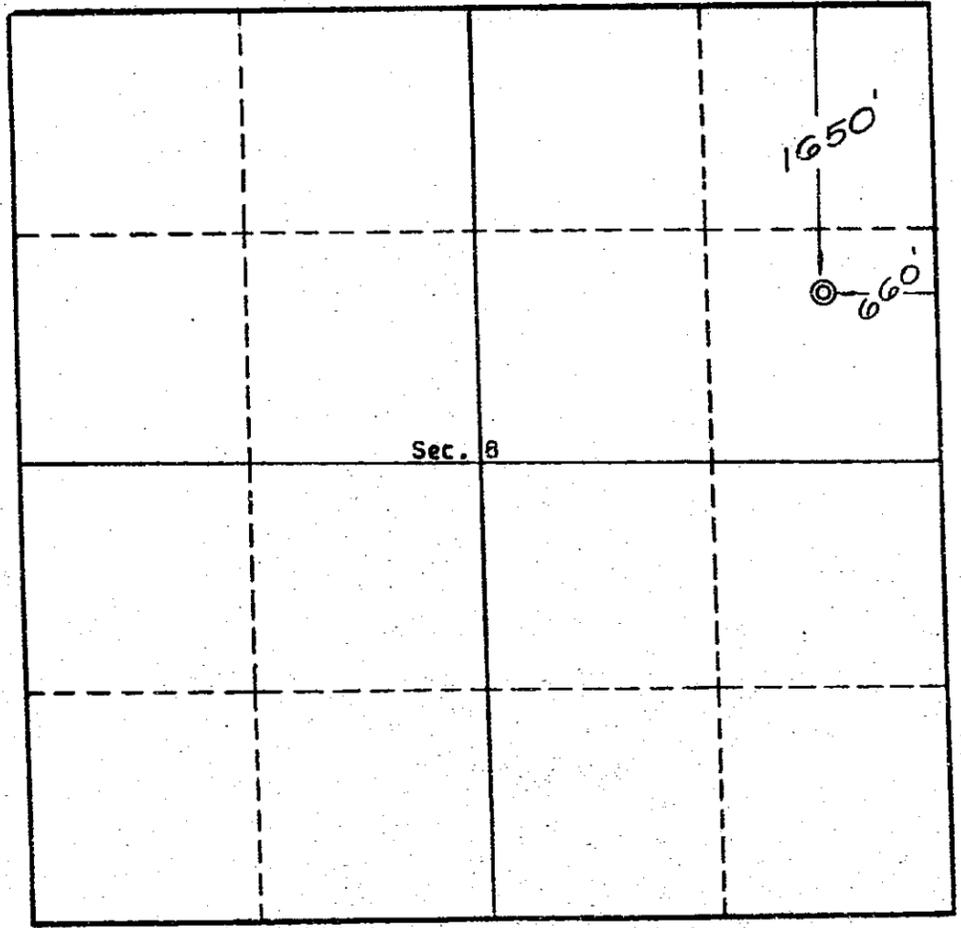
PERMIT **Nº 393**

RECEIPT NO. **9486**

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

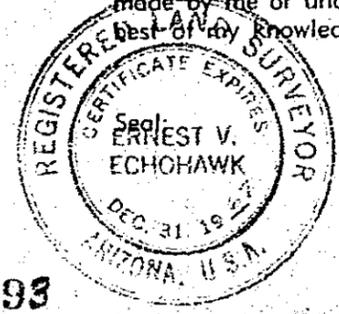
Company HUMBLE OIL & REFINING COMPANY
 Well Name & No. Navajo Tract 140 - Well #1
 Location 1650 feet from the North line and 660 feet from the East line.
 Sec. B, T. 35 N., R. 30 E., G. & S. R. M., County Apache, Arizona
 Ground Elevation 8628



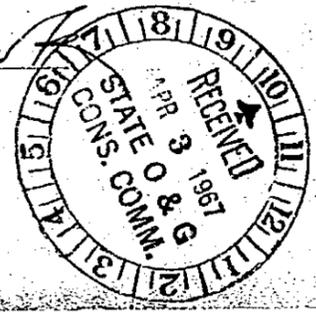
Scale, 1 inch = 1,000 feet

Surveyed March 11, 1967

This is to certify that the above plot 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



X-CHROAD
X-Lambert

July 10, 1969

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

Re: Humble #1 Navajo 88
T36N, R29E, G & SRM
Sec. 25: SE/4 SE/4
Apache County
Permit #421 X

Humble #1 Navajo 140
T35N, R30E, G & SRM
Sec. 8: SE/4 NE/4
Apache County
Permit #393

Dear Mr. Dorrough:

Authorization from this Commission is hereby granted to continue the captioned wells in a temporary abandoned status. This temporary abandoned status will expire June 16, 1970. We will require our Form 25 (or U.S.G.S. Sundry Notice Report) to be submitted monthly as you have done in the past.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jf



HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

PRODUCTION DEPARTMENT
DENVER DISTRICT
J. R. BORROUGH
SUPERINTENDENT

July 8, 1969

POST OFFICE BOX 120
TELEPHONE 534-1251



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

Attn: Mr. James A. Lambert

Gentlemen:

Re: Humble #1 Navajo 88
T36N, R29E, G & SRM
Sec. 25: SE/4 SE/4
Apache County
Permit #421

Humble #1 Navajo 140
T35N, R30E, G & SRM
Sec. 8: SE/4 NE/4
Apache County
Permit #393

In answer to your letter of June 30, 1969, relating to the above, please be advised that these two wells are in the same category as the four wells set forth in our letter of June 5, 1969.

See Permit # 400 for letter

We hereby request extension of the temporary abandoned status on the above two wells.

Very truly yours,

J. Roy Borrough

JRD:mg

TA Status approved until 6/16/70
72

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X-Chloro
X-Lambert

June 30, 1969

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

Re: Humble #1 Navajo 88
T36N, R29E, G & SRM
Sec. 25: SE/4 SE/4
Apache County
Permit #421 *

Humble #1 Navajo 140
T35N, R30E, G & SRM
Sec. 8: SE/4 NE/4
Apache County
Permit #393

Dear Mr. Dorrrough:

For the past year these wells have been carried in the temporary abandoned status. Please advise us what plans you have for each of the wells in the ensuing year and make new request for extending temporary abandon status should you wish that these wells remain in that status.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jf

See June Study report
7/2/69

393



HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

DENVER DISTRICT

March 24, 1969

POST OFFICE BOX 129



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

Dear Mr. Bannister:

Attached please find Bureau of Mines "Report of Analysis" of gas samples on all wells drilled by Humble Oil & Refining Company in the Dineh bi Keyah Area, Apache County, Arizona.

| Well Name & No. | No. of Reports |
|-------------------------|----------------|
| Navajo Tract 87 #1-401 | 1 |
| Navajo Tract 88 #1-421 | 3 |
| Navajo Tract 88 #2-431 | 4 |
| Navajo Tract 88 #3-443 | 1 |
| Navajo Tract 140 #1-393 | 3 |
| Navajo Tract 151 #1-454 | 3 |

These reports should complete all records on the well in this area. Analysis were not made on wells not listed above.

Very truly yours,

J. Roy Dorough
J. Roy Dorough
Dist. Supt.

Attach.

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HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

PRODUCTION DEPARTMENT
DENVER DISTRICT
J. R. DORROUGH
SUPERINTENDENT

July 12, 1968

POST OFFICE BOX 120
TELEPHONE 534-1251

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

Attn: Mr. John Bannister

Gentlemen:

In accordance with Rule 202.B of the Arizona Oil and Gas Conservation Commission Rules and Regulations, we request permission for temporary abandonment of the following well:

Navajo Tract 140 #1 - Permit No. 393
SE NE Section 8-35N-30E
Apache County, Arizona

Operations on this well have been suspended and the well is temporarily abandoned pending development of a helium market for the field, which may take some time, and additional development in other wells in the helium-bearing formations in the area.

Pending development of a helium market and additional drilling, we request approval to keep this well in the temporarily abandoned status for an indefinite period.

Very truly yours,

J. ROY DORROUGH

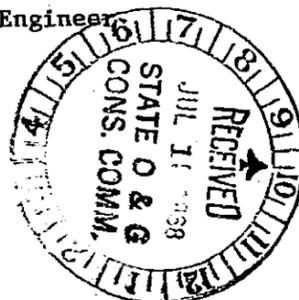
By

John F. Richardson
John F. Richardson
District Chief Engineer

JRD (JFR)mg

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OK 7-15-68
JB



June 21, 1968

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

Dear Mr. Dorrrough:

Your letter of May 31, 1968 requests that certain gas wells be exempt from Capacity Testing in compliance with Rule 401. Our records do not reflect that any of these have been completed gas wells. Therefore, we will need the information indicated on the attached sheet.

We do have on file the application that the Humble 488 be considered as a salt water injection well.

As soon as we receive clarification on the above points, consideration will be given to your request.

Very truly yours,

John Bannister
Executive Secretary
jr

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Humble Oil & Refining

| Well | Completion Report | Samples | | |
|-----------------------|-------------------|---------|--|--------------------------------------|
| # 1-140 Permit 393 | due | | | |
| # 2-138 Permit 400 | due | | | |
| # 1-87 Permit 401 | due | | | |
| # 1-88 Permit 421 | due | | | |
| # 4-88 Permit 447 | due | due | | Apply to convert to salt water injec |
| # 1-146 Permit 452 | due | due | | |

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HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

DENVER DISTRICT

May 31, 1968

POST OFFICE BOX 120

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

Attn: Mr. John Bannister

Dear Sir:

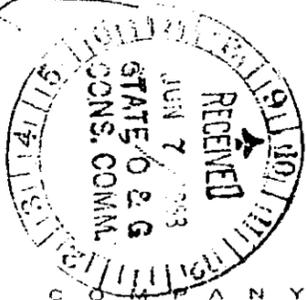
In compliance with Rule 401 and Directive D-2-67, we hereby request exemption from Capacity Tests of Gas Wells on the following shut-in gas wells during the month of June, 1968.

- 401 #1 Navajo Tract 87
SE NE Section 23-36N-29E, Apache County
- 421 #1 Navajo Tract 88
SE SE Section 25-36N-29E, Apache County
- 447 #4 Navajo Tract 88
SE NW Section 25-36N-29E, Apache County
- 400 #2 Navajo Tract 138
SE SE Section 6-35N-30E, Apache County
- 393 #1 Navajo Tract 140
SE NE Section 8-35N-30E, Apache County
- 452 #1 Navajo Tract 146
SE SW Section 15-35N-30E, Apache County

Your approval of these exemptions will be appreciated.

Very truly yours,

J. Roy Dorrough



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JACK WILLIAMS
GOVERNOR
LYNN LOCKHART
CHAIRMAN
LUCIEN B. OWENS
VICE CHAIRMAN
HIRAM S. CORBETT
MEMBER
GEORGE T. SILER
MEMBER
KENNETH G. BENTSON
MEMBER

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

JOHN BANNISTER
EXECUTIVE SECRETARY
J. R. SPURLOCK
PETROLEUM GEOLOGIST

July 10, 1967

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

Attention: Mr. Roger Frazier

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

Humble #2 Navajo 138 well (Permit 400)
SE SE 6-35N-30E, Apache County, Arizona

Humble #1 Navajo 87 well (Permit 401)
SE NE 23-36N-29E, Apache County, Arizona

Gentlemen:

Attached please find Directive 1-78 adopted during the Commission's meeting of June 21, 1967.

The effect of this directive will be to remove all wells in temporarily abandoned status prior to June 21, 1967 from the status of confidential as of December 31, 1967. All obligations owed to this Commissioner concerning the filing of logs, reports, samples, will be due within the schedules as set forth in the Rules and Regulations from July 1, 1967. Of course an application to plug and plugging report will not be needed at this time. In lieu of our Form 4, Well Completion Report, it will be necessary that you file a status report covering the complete history of the well to the date of its temporary abandonment.

Should you have any questions concerning this directive or this letter, please advise at your earliest convenience.

Very truly yours,

John Bannister
Executive Secretary
mr

cc: Mr. H.L. Spiller, Oklahoma City

June 20, 1967

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

Attention: Mr. J. Roy Dorrrough

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

Humble #2 Navajo 138 well (Permit 400)
SE SE 6-35N-30E, Apache County, Arizona

Humble #1 Navajo 87 well (Permit 401)
SE NE 23-36N-29E, Apache County, Arizona

Gentlemen:

By your letters of June 15, 1967 you requested permission from this Commission to temporarily abandon the captioned wells pending the development of a helium market and additional drilling.

This letter constitutes permission from this Commission to temporarily abandon captioned wells for the reasons stated in your requests.

This Commission should of course be notified when you plan to again commence operations on these wells.

Very truly yours,

John Bannister
Executive Secretary
ME



HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

DENVER DISTRICT

June 15, 1967

POST OFFICE BOX 120

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

Attn: Mr. John Bannister

Gentlemen:

In accordance with Rule 202.B of the Arizona Oil and Gas Conservation Commission Rules and Regulations, we request permission for temporary abandonment of the following well:

Navajo Tract 140 #1 - Permit #393
SE NE Section 8-35N-30E, Apache County, Arizona

Operations on this well have been suspended and the well is temporarily abandoned pending development of a helium market for the field, which may take some time, and additional development in other wells in the helium-bearing formations in the area.

Pending development of a helium market and additional drilling, we request approval to keep this well in the temporarily abandoned status for an indefinite period.

Very truly yours,

J. ROY DORROUGH

By 
Roger S. Frazier

OK JB

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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
mr



HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

DENVER DISTRICT

POST OFFICE BOX 120

April 26, 1967

CONFIDENTIAL

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

Attn: Mr. John Bannister

Gentlemen:

At the time the "Application for Permit to Drill" our Navajo Tract 140 #1 was submitted a Drilling Contractor had not been selected. This is to inform you that the contract has been awarded to the following:

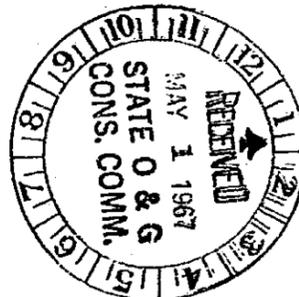
Mesa Drillers
P. O. Box 108
Lubbock, Texas 79408

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

Yours very truly,


J. Roy Dorrrough
District Superintendent

CONFIDENTIAL



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401

April 6, 1967

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

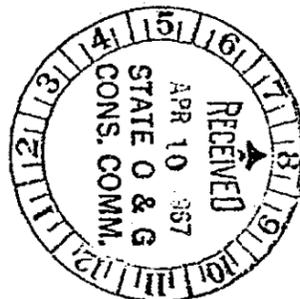
This letter is confirming verbal request and discussion with you by Mr. Roger S. Frazier on April 5, 1967. All future reports will be stamped "Confidential."

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

Very truly yours,

J. Roy Borrough

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



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