

P-W

HUMBLE O&R 1 NAVAJO-E
SW/4-NE/4 Sec. 10-T41N-R28E
Apache County

58

COUNTY Apache *Field:* East Boundary Butte LEASE NO. 14-20-603-412
 AREA
 WELL NAME MERRION & BAYLESS OIL & GAS (10-1-81)
HUMBLE OIL & REFINING 1 NAV.-E
 LOCATION SW NE SEC 10 TWP 41N RANGE 28E FOOTAGE 2310' FNL 1980' FEL
 ELEV 5488 GR 5498 DFKB 5500 KB SPUD DATE 8-11-58 STATUS Recompleted TOTAL DEPTH 5410'
 COMP. DATE 10-5-58
 CONTRACTOR Rutledge Drilling Company P & A 2/83

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
8 5/8	1015	450 sx		<u>z</u>
2	4454			DRILLED BY CABLE TOOL
5 1/2	4893	200 sx		PRODUCTIVE RESERVOIR <u>Hermosa 4518-46</u>

INITIAL PRODUCTION F/225 BOPD; 14/64"
 chk. 24 hr. test.

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Hermosa	4120	x	x	These tops taken from notes in file dated 1958.
Paradox	4850			

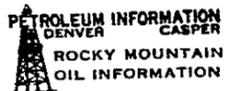
ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
GRN, Temperature Log			<u>Am Strat</u>
(2) IE (2) Microlog			SAMPLE DESCRP.
			SAMPLE NO. <u>T 815 P 3334</u>
			CORE ANALYSIS
			DSTs

REMARKS Humble furnished structural cross section (comparative)
log on 1-31-69. See East Boundary Butte File. Merrion & Bayless
new operators. Well recompleted 12-31-60/8-18-65/12-31-68.
 WATER WELL ACCEPTED BY _____
 APP. TO PLUG 4/22/83
 PLUGGING REP. _____
 COMP. REPORT x

BOND CO. USF&G *filed in P/N 518* BOND NO. 010130-972-74
 DATE _____ ORGANIZATION REPORT x
 BOND AMT. \$ 25,000 CANCELLED _____ WELL BOOK x PLAT BOOK x
 FILING RECEIPT 52802 LOC. PLAT x DEDICATION W/2 NE/4
 API NO. _____ DATE ISSUED 8-28-58

PERMIT NUMBER 58

ARIZONA
APACHE COUNTY
BOUNDARY BUTTE, E. ()



Twp 41n-28e
Section 10
s 1/2 sw ne
(2310 s/n 1980 w/e)

OPR: Humble Oil & Refining

WELL #: 1 Navajo "E"

ELEV: 5498 DF.

*TOPS: Log ~~xxxxx~~

Cutler-Rico 2130
Coconino 2180
Hermosa 4120
Paradox 4863

DSTS. & CORES:

DST 4202-69, 2 hrs, gas
in 34 min, est 20 MCFPD,
rec 235 GCM, FP 64-96#
SIP (30 min) 697#, HP
2123#. DST 4494-4556,
1 hr 22 min, rec 810
GCM, FP 64-663#, SIP (30
min) 1606#, HP 2145#. DST 4600-4675, 3 hrs, strong
blow, gas in 15 min, oil in 19 min, flowed 40 BOPH,
42 gty, FP 252-663#, SIP (70 min) 1470#, HP 2177#.
DST 4732-76, 2 hrs, strong blow, gas in 8 min, est 232
MCFPD, rec 2100 oil, FP 127-347#, SIP (30 min) 1480#.
HP 2240#. DST 4865-93, 2 hrs, gas @ rate 2800 MCFPD,
rec 10 black HGC & sulfur cut mud, FP 601-346#, SIP
(30 min) 1480#, HP 2240#. DST 4893-4943, 1 1/2 hrs, rec
20 mud, FP 17#, SIP (30 min) 316#. DST 4940-86, 1 hr,
rec 540 sli OC & HGCM, FP 100-250#, SIP (30 min) 1900#.
DST 4979-5024, 1 hr, rec 120 sulfur wtr & OCM, 10 sulfur
wtr, FP 20-50#, SIP (30 min) 1500#. DST 5070-5115, 1 1/2 hrs,
rec 90 mud, 240 GC sulfur wtr, FP 80-175#, SIP (30 min) 1600#, HP 2200#. (over)

SPUD: 8-13-58 COMPL: 10-6-58

TD: 5410 PB: 5375

CSG: 8-5/8" @ 1015 w/450
5 1/2" @ 4893 w/333

PERF: 4726-72; acidized; gauged 12 BO,
5 hrs. 4594-4644; acidized; swbd,
gauged 31 BO, 3 bbls fresh wtr,
9 hrs; acidized, flowed 187 BO,
6 BW, 8 hrs.

PROD. ZONE: Hermosa, 4594-4644,
4726-72.

INIT. PROD: IPF 562 BOPD, 5/16" ck.

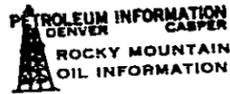
(HERMOSA DISCOVERY - NEW OIL POOL)

KAN-W6-85229

HUMBLE OIL & REFINING CO. NAVAJO "E", s $\frac{1}{2}$ sw ne 10-41n-28e, APACHE COUNTY, ARIZONA
- 2

DST 5118-5143, 1 $\frac{1}{2}$ hrs, rec 50 mud, 2630 sulfur wtr, FP 200-1100#, SIP (30 min) 1600#, HP 2250#. DST 5144-5185, 1 $\frac{1}{2}$ hrs, rec 1700 mud, 610 GC sulfur wtr, FP 750-125#, SIP (30 min) 1630#, HP 2250#. DST 5250-5305, 1 $\frac{1}{2}$ hrs, gas in 2 min, est 59 MCFPD, rec 240 HO&GCM, 30 O&GC sulfur wtr, FP 100#, SIP (30 min) 1550#, HP 2300#. DST 5339-5359, 1 $\frac{1}{2}$ hrs, gas in 3 min, rec 90 HO&GCM, 3630 HGCW, FP 900-1500#, SIP (30 min) 1750#, HP 2400#. DST 5029-44, 1 hr, tool plugged, rec 1050 mud, bottom 50 sulfur cut, FP 400#, SIP (30 min) 1500#, HP 2250#.

ARIZONA
APACHE CO.
BOUNDARY BUTTE, EAST (D)



Twp 41n-28e
Section 10
sw ne
2310 s/n 1980 w/e
OWWO, OTD 5410.

OPR: Humble Oil & Refining

WELL #: 1 Navajo-E

ELEV:
TOPS: Log-Sample

DSTS. & CORES:
No tests.

SPUD: Resumed 7-27-65 COMP: 8-24-65
TD: PB: 5200
CSG:

(Comp 10-6-58. IPF 562
BOPD. Prod Zone: Hermosa
4594-4772. Csg: 8-5/8" @
1015 w/450; 5 1/4" @ 8983 w/333
El: 5498 DF. Log Tops:
Hermosa 4120, Paradox 4863).

PERF: 4878-96 w/2 pf. Acidized.
Flowed 76 BO, 6 hrs. 12/64.
ck, GOR 1000-1 (approx).

PROD. ZONE: Hermosa 4878-96

INIT. PROD: IPF 334 BOPD, TP 280#.
40.1 gty. GOR 677-1.

Contr: Drake Well Service

ARIZ3-565001

RECEIVED

PLUGGING RECORD DE 22 1986					
Operator Merrion Oil & Gas Corporation			Address P. O. Box 8465, Farmington, NM 87499		
Federal, State, or Indian Lease Number or lessor's name if fee lease. 14-20-603-412		Well No. Nav. E-1	Field & Reservoir East Boundary Butte		
Location of Well 2310' FNL and 1980' FEL Sec. 10, T41N, R28E				Sec-Twp-Rge or Block & Survey	County Apache, Az.
Application to drill this well was filed in name of Humble Oil & Ref. Co.		Has this well ever produced oil or gas Yes	Character of well at completion (initial production): Oil (bbls/day) 180 Gas (MCF/day) 104 Dry? 		
Date plugged: 2-22-83		Total depth 5409'	Amount well producing when plugged: Oil (bbls/day) 6 Gas (MCF/day) 0 Water (bbls/day) 500		
Name of each formation containing oil or gas. Indicate which formation open to wellbore 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	
Hermosa		oil, gas and water	4117'-4795'	See attached BLM	
				sundry	
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
8-5/8"	1015'	0	1015'		
5-1/2"	4893'	0	4893'		
3-1/2"	545'	0	545'		
Was well filled with heavy drilling mud, according to regulations? Yes.				Indicate deepest formation containing fresh water. Coconino - 2180'-2300'	
NAMES AND ADDRESSES OF ADJACENT PROSE OPERATORS OWNERS OF THE SURFACE					
Name		Address		Direction from this well:	
Navajo Nation		POBox M, WindowRock, Az, 86515		surrounding	
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 <u>Production Engineer</u> of the <u>Merrion Oil and Gas Corporation</u> (company) and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.					
Date December 15, 1986		Signature <i>T. Greg Merrion</i> T. Greg Merrion			
Permit No. 58			STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Plugging Record File One Copy		
			Form No. 10		

APPLICATION TO PLUG AND ABANDON

RECEIVED

APR 23 1983

CRS

O & G CONS. COMM.

FIELD East Boundary Butte
OPERATOR Merrion Oil & Gas Corporation ADDRESS P. O. Box 1017, Farmington, New Mexico
Federal, State or Indian Lease Number or Lessor's Name if Fee Lease 14-20-603-412 (Navajo E) WELL NO. 1
LOCATION 2310' FNL and 1980' FEL, Sec. 10, T41N, R28E, Apache County, Arizona

TYPE OF WELL Oil (Oil, Gas or Dry Hole) TOTAL DEPTH 5410'

ALLOWABLE (If Assigned) _____
LAST PRODUCTION TEST OIL 0 (Bbls.) WATER 325 (Bbls.)
GAS 0 (MCF) DATE OF TEST 2/20/82
PRODUCING HORIZON _____ PRODUCING FROM 4795 TO 4804

- 1. COMPLETE CASING RECORD.
8-5/8", 24# J-55, 8R, STC 1015 - surface. 450 sx cement
5-1/2", 14#, J-55, 8R, STC 4893 - 1005'. 1130 sx cement.
3-1/2", 9.3#, N-80 X-Line, 5409 - 545'.

- 2. FULL DETAILS OF PROPOSED PLAN OF WORK.
Spot cement plug from 5200 - 4400' with 65 sx cement to cover productive interval.
Spot cement from 2300 - 2030' with 35 sx cement to protect fresh water sand.
Spot surface casing shoe 1100 - 900' with 25 sx cement.
Spot surface plug from 100' to surface with 15 sx.
Pump 15 sx to fill 100' of production - surface annulus.
Spot 15 sx from 4167 - 4069' to cover Nermosa top.
Erect dry hole marker.

DATE COMMENCING OPERATIONS 2/20/83
NAME OF PERSON DOING WORK MTK Well Servicing ADDRESS P. O. Box 151, Farmington, NM

Signature [Signature]
Title Steve S. Dunn, Operations Manager
Address P. O. Box 1017, Farmington, New Mexico 87499
Date 4/26/83

Date Approved 4/28/83
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By: R. A. Yana

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

Permit No. 058

RECEIVED
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY & CONS. COMM.
DEC 22 1986

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 Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Merrion Oil & Gas Corporation

3. ADDRESS OF OPERATOR
P. O. Box 1017, Farmington, New Mexico 87499

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2310' FNL and 1980' FEL
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

5. LEASE
14-20-603-412

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo Tribe

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.
Navajo E

10. FIELD OR WILDCAT NAME
East Boundary Butte

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 10, T41N, R28E

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
1550' KB

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

- REQUEST FOR APPROVAL TO:
- TEST WATER SHUT-OFF
 - FRACTURE TREAT
 - SHOOT OR ACIDIZE
 - REPAIR WELL
 - PULL OR ALTER CASING
 - MULTIPLE COMPLETE
 - CHANGE ZONES
 - ABANDON*
 - (other)

SUBSEQUENT REPORT OF:

RECEIVED
FEB 24 1983
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)*

- Plugged as follows:
1. Spotted cement plug from 5200' - 4400' w/65 sx (76.70 cu. ft.) to cover productive interval.
 2. Spotted cement from 2300' - 2030' with 35 sx. (41.30 cu. ft.) to protect fresh water sand.
 3. Spotted surface casing shoe 1100' - 900' with 25 sx. (29.50 cu. ft.)
 4. Spotted surface plug from 100' to surface with 15 sx (17.70 cu. ft.)
 5. Pumped 15 sx (17.70 cu. ft.) to fill 100' of production - surface annulus.
 6. Spotted 15 sx (17.70 cu. ft.) from 4167 - 4069' to cover Hermosa top.
 7. Erected Dry Hole Marker.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct
SIGNED [Signature] TITLE Operations Manager DATE 2/22/83
(This space for Federal or State office use)

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

Approved as to plugging of the well bore.
Liability under bond is retained until surface restoration is completed.

*See Instructions on Reverse Side

NMOCC

FEB 11 1985
[Signature]
JULIA MILLENBACH
AREA MANAGER

58 17

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

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

DESCRIPTION OF WELL AND LEASE

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

Federal, State or Indian Lease Number or name of lessor if fee lease: Navajo Tribe of Indians "E" - 14-20-603-412 Well Number: 1 Field & Reservoir: East Boundary Butte - Hermosa

Location: SW NE (2310' FNL & 1980' FEL) of Sec. 10 County: Apache

Sec. TWP-Range or Block & Survey: Sec. 10-41N-28E

Date spudded: 8-11-58 Date total depth reached: - Date completed, ready to produce: 12-31-68 Elevation (DF, RKB, RT or Gr.): 5,500 KB Elevation of casing hd. flange: 5485'

Total depth: 5,410' P.B.T.D.: 5,200' Single, dual or triple completion?: Multiple Zone If this is a dual or triple completion, furnish separate report for each completion.

Producing interval (s) for this completion: See attached summary Rotary tools used (interval): Pulling Unit used for workover Cable tools used (interval):

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

Type of electrical or other logs run (check logs filed with the commission): None on this workover - original logs filed in 1958. Date filed: -

CASING RECORD

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Surface	12 1/4"	8-5/8"	24#	1,015'	450	None
Production	7-7/8"	5 1/2"	14#	4,879'	330	None

TUBING RECORD

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
2 1/2 in.	4,861 ft.	4,830 ft.	3 1/2 in.	4,864 ft.	5,409 ft.	40	None

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval
See attached summary				

INITIAL PRODUCTION

Date of first production: 12-31-68 Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump): Pump - 2 1/2" x 2" x 18'

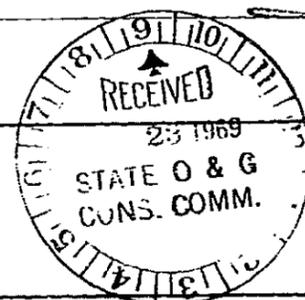
Date of test: 1-14-69 Hrs. tested: 24 Choke size: - Oil prod. during test: 66 bbls. Gas prod. during test: 63 MCF Water prod. during test: 140 bbls. Oil gravity: 39° API (Corr)

Tubing pressure: 160 Casing pressure: 160 Cal'd rate of Production per 24 hrs.: 66 Oil: 66 bbls. Gas: 63 MCF Water: 140 bbls. Gas-oil ratio: 955

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

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: 1-15-69 Signature: J. Roy Dorrrough



Permit No. 58

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

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
Hermosa Paradox	4120 4850		
These tops taken from notes in file dated 1958:			

* 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.

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 Nav. Tribe of Indians "E" - 14-20-603-412 Well Number 1 Field & Reservoir E. Boundary Butte - L. Herm. A-2

Location SW/NE, 2310' FNL & 1980' FEL of Sec. 10 County Apache, Arizona

Sec. TWP-Range or Block & Survey Sec. 10-41N-28E

Date spudded 8-11-58 Date total depth reached - Date completed, ready to produce 8-17-65 Elevation (DF, RFB, RT or Gr.) 5,500 KB feet Elevation of casing hd. flange 5,485 feet

Total depth 5,410' P.B.T.D. 5,200' 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 4,878-96' Rotary tools used (interval) Pulling Unit used for workover Cable tools used (interval)

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

Type of electrical or other logs run (check logs filed with the commission) None on this workover - original logs filed in 1958. Date filed -

CASING RECORD

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

TUBING RECORD

LINER RECORD

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

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Table with 4 columns: Number per ft., Size & type, Depth Interval, Amt. & kind of material used. Depth Interval 4,878-96'.

INITIAL PRODUCTION

Date of first production 8-4-65 Producing method (indicate if flowing, gas lift or pumping--if pumping, show size & type of pump:) Flow

Date of test 8-24-65 Hrs. tested 24 Choke size 17/64 Oil prod. during test 334 bbls. Gas prod. during test 226 MCF Water prod. during test NONE bbls. Oil gravity 40.1° API (Corr)

Tubing pressure 280 Casing pressure - Cal'd rate of Production per 24 hrs. 334 bbls. Gas 226 MCF Water NONE bbls. Gas-oil ratio 677:1

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

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

Date 9-7-65 Signature [Handwritten Signature]

NOTE: For additional information refer to "Sundry Notice" dated 8-31-65.

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

Form No. 4 Permit No. [Blank]

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
J. Gregory Merrion and Robert L. Bayless

3. ADDRESS OF OPERATOR
P.O. Box 507, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
2310' FNL and 1980' FEL

5. LEASE DESIGNATION AND SERIAL NO.
14-20-603-412

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo Tribe

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Navajo E

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
East Boundary Butte

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
Sec. 10, T21N, R28E

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

14. PERMIT NO.
Arizona #58

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5500' 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 checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

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

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

10-27-76 Moved in Flint Rig; pulled rods and tubing. Replaced bad tubing string. Tested with retrievable bridge plug and packer and found excessive water entry 4726-72. Set retrievable bridge plug at 4834, packer at 4383. Squeezed with 150 sax cement (50 sax RFC with 2% CaCl₂, 50 sax RFC and 50 sax with 2% CaCl₂). Drilled out cement, tripped tubing and dry tested with packer at 4000'; no fluid entry. Tripped tubing and ran bit with casing scraper. Tripped tubing and ran retrieving head and retrieved bridge plug. Ran packer to 4830 and acidized Ismay perfs 4878-4896 with 500 gallons 28% HCl with iron stabilizer and surfactant. Swabbed well to clean up. Tripped tubing and ran as follows:

1 - 2-7/8" mud anchor	28.00
1 - 2-7/8" x 6' perf nipple	6.00
1 - 2-7/8" seating nipple	1.00
1 jt. 2-7/8" tubing	31.28
1 Baker anchor catcher	2.50
152 jts. 2-7/8" EUE	4754.56
	4823.34

RECEIVED
NOV 22 1976
O & G CONS. COMM.

Set tubing at 4834, perfs 4795-4804, SN 4803, Anchor Catcher 4769.

Ran 2" bore pump and rods and commenced pumping 11-12-76.

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

SIGNED J. Gregory Merrion TITLE Co-Owner DATE Nov. 18, 1976

(This space for Federal or State office use)

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

Form 9-331
(May 1983)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLE
(Other instructions
verse 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
J. Gregory Merrion and Robert L. Bayless

3. ADDRESS OF OPERATOR
P.O. Box 507, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
2310' FNL and 1980' FEL

14. PERMIT NO.
Arizona #58

15. ELEVATIONS (Show whether DP, RT, GR, etc.)
5500' KB

5. LEASE DESIGNATION AND SERIAL NO.
14-20-603-412

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo Tribe

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Navajo E

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
East Boundary Butte

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
Sec. 10, T41N, R28E 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 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.)*

Well is making excessive water. Will locate source of excessive water with packer and bridge plug and squeeze cement, drill out and put back on production.

RECEIVED
OCT 29 1976
D & G CONS. COMM.

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

SIGNED J. Gregory Merrion TITLE Co-Owner DATE October 29, 1976

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

ALLOTTEE Tribal
TRIBE Navajo
LEASE NO. 14-20-603-412
Navajo E

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Arizona County Apache Field Boundary Butte, East

The following is a correct report of operations and production (including drilling and producing wells) for the month of December, 19 75

Agent's address P. O. Box 1541 Company MERRION & WYLESS
Farrington, NM 87401 Signed [Signature]

Phone (505) 325-5093 Agent's title Co-owner

SEC. AND 1/4 OF 34	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)
SW/4 10	41N	23E	1	68 1	25	39.5	34			Used 34 MCF on lease

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.

OPERATOR'S CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL OR GAS FROM LEASE		
Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-503-412	Field East Boundary Butte	Reservoir
Survey or Sec-Twp-Rge 10-41N-28E	County Apache	State Arizona
Operator J. Gregory Merrion and Robert L. Bayless		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street P.O. Box 1541	City Farmington	State New Mexico 87401
Above named operator authorizes (name of transporter) The Permian Corporation		
Transporter's street address P.O. Box 1183	City Houston	State Texas 77001
Field address Petroleum Plaza, Farmington, New Mexico 87401		
Oil, condensate, gas well gas, casinghead gas		
To transport	100 % of the	Oil from said lease.
OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:		
Name of gatherer El Paso Natural Gas Company	% transported 100	Product transported Natural Gas
Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change. Change of purchaser September 28, 1973		

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

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Co-Owner of the Merrion & Bayless (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.

March 11, 1974
Date

J. Gregory Merrion
Signature

Date approved: 3-14-74

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By: *W.K. Allen*

Permit No. 58

RECEIVED

MAR 11 1974

O & G - C

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Operator's Certificate of Compliance & Authorization to Transport Oil or Gas from Lease
File Two Copies

Form No. 8

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

Federal, State or Indian Lease Number. or lessor's name if fee lease 14-20-603-412	Field East Boundary Butte	Reservoir
Survey or Sec-Twp-Rge Sec. 10, T41N, R28E	County Apache	State Arizona

Operator **Merrion & Bayless**

ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:

Street P.O. Box 1541	City Farmington	State New Mexico 87401
--------------------------------	---------------------------	----------------------------------

Above named operator authorizes (name of transporter)
Four Corners Pipeline

Transporter's street address Farmington	City Farmington	State New Mexico 87401
---	---------------------------	----------------------------------

Field address _____
Oil, condensate, gas well gas, casinghead gas _____ from said lease.

To transport **100** % of the **Oil**

OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:

Name of gatherer	% transported	Product transported
El Paso Natural Gas Company	100	Natural Gas

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

Change of operator effective August 1, 1970

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

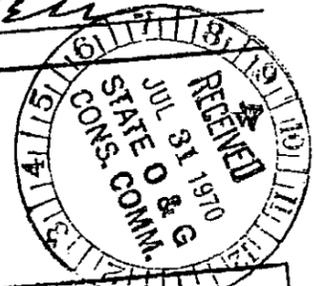
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Owner of the _____
Merrion & Bayless (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true,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

Date July 27, 1970

Date approved: 7-31-70

By: John Bennett
Permit No. 58

B. L. Bayless
Signature



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

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

Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-603-412	Field East Boundary Butte	Reservoir
Survey or Sec-Twp-Rge Sec. 10, T41N, R28E	County Apache	State Arizona
Operator Merrion & Bayless		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street P.O. Box 1541	City Farmington	State New Mexico 87401
Above named operator authorizes (name of transporter) Four Corners Pipeline		
Transporter's street address	City Farmington	State New Mexico 87401
Field address		
Oil, condensate, gas well gas, casinghead gas		
To transport	100 % of the	Oil from said lease.
OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:		
Name of gatherer El Paso Natural Gas Company	% transported 100	Product transported Natural Gas
Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change. Change of operator effective August 1, 1970		

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

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

Date July 27, 1970

B. L. Bayless
Signature

Date approved: 7-31-70

**STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION**

By: *John Sennelle*
Permit No. 58



**STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION**
Operator's Certificate of Compliance & Authorization to
Transport Oil or Gas from Lease
File Two Copies
Form No. 2

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 Tribe of Indians "E" #1

Location SW NE (2310' FNL & 1980' FEL) of Sec. 10

Sec. 10 Twp. 41N Rge. 28E County Apache, Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-603-412

5. Field or Pool Name Boundary Butte, East

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>Operations since 12-31-69</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.)

Since report of 1-15-69 the following work has been done on this well.

A larger pumping unit was installed and the Lok-Set Packer at 4830 was removed. (2-24-69)
 This leaves all perforations open to production as follows: 4942-54'; 4920-30';
4878-96'; 4726-74'; 4594-4635'; 4558-94'; 4518-58' and 4500-18'. Pumping at
 rate of 130 BO & 200 BW per day.



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

Signed J. Roy Dorrrough Title Dist. Supt. Date 3-13-69

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
 File Two Copies

Form No. 25

Permit No. 58

58

POTENTIAL TEST ~~AND REQUEST FOR~~ ALLOWABLE OIL WELLS

DESIGNATE TYPE OF COMPLETION:

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

Other Reason For Filing:

Operator Humble Oil & Refining Company

Address P. O. Box 120, Denver, Colorado 80201



DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or Lessor's Name if Fee Lease 14-20-603-412 Well Name Navajo Tribe of Indians "E" #1 Apache

Footage Location SW NE (2310' FNL & 1980' FEL) of Sec. 10

Sec. Twp. Rge. Sec. 10-41N-28E

Date spudded 8-11-58 Date completed, ready to produce 12-31-68 Total depth 5410' P.B.T.D. 5200' Field and reservoir Boundary Butte, East Top of pay 4878' Producing interval 4878-4954'

RECOMPLETION -- TEST DATA

Date of first production 12-31-68 Date of test 1-4-69 Length of test 24 hrs. Producing method (flow pump, gas lift) Pump Amount of load oil injected if any. ---

Number of barrels of oil produced from completion or recompletion date to test date If well is produced by pumping, give pump size, length of stroke and strokes per minute. 2 1/2" x 2' x 18' Pump - 64" Stroke @ 15 SPM

Tubing pressure 160 Casing pressure 160 Choke size 1"

*Actual production during test: Oil (bbls) 66 85 (1/3/69) Water (bbls) 128 (1/21/69) Gas (MCF) 63

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

Gas-oil ratio .955 MCF/bbl. Oil gravity 39 ° A.P.I. corrected Name of transporter of oil Four Corners Pipeline

Number of acres attributed to this well -- Number of producing wells in this reservoir on this lease, including this well 1 Single, dual or triple completion? Dual Daily allowable requested (bbls) 66

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

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

Date 1-22-69

Signature J. Roy Dorrrough

Witnessed by: Organization Signature Date

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION

Potential Test & Request for Allowable—Oil Wells

File One Copy

Permit No. 58

Form No. 6

* Verbal report by signature

NAVAJO TRIBE OF INDIANS "E" #1

WORKOVER SUMMARY

JANUARY 15, 1969

9^v
Perforated 4,500-18' and 4,558-94' with 2 SPF. Set bridge plug and packer, tested perforations 4,726-72', swabbed 4 hours, recovered 10 BO, 50 BW and an estimated 100 MCFGPD. Moved and reset bridge plug and packer and tested perforations 4,500-18', 4,518-58', 4,558-94' and 4,594-4,644'. Swab tested 5 hours, recovered 20 BO and 40 BW. Shut in for night. Opened casing for 1 hour, recovered 30 BO and 30 BW, killed well. Perforated 4,920-30' and 4,942-54' with 2 SPF. Set packer at 4,830' and tested perforations 4,878-96', 4,920-30' and 4,942-54'. Swabbed 5 hours, recovered 103 BO and 42 BW. Reset packer and bridge plug to test perforations 4,500-4,644' and 4,726-72'. Swab tested 7 hours per day for 4 days as follows: 1st day - 60 BO and 57 BW; 2nd day - 56 BO and 147 BW; 3rd day - 51 BO and 23 BW; 4th day - 20 BO and 33 BW. Pulled tubing, packer and bridge plug. Ran 2½" tubing with a 5½" Lok-Set packer and set at 4,830' with 31' of 2" tubing below packer as tail pipe. Ran rods and pump. Tested on pump from perforations 4,878-96', 4,920-30' and 4,942-54' at rate of 66 BO and 140 BW with 63 MCFGPD, GOR 955.

Perforations 4,500-18', 4,518-58', 4,558-94', 4,594-4,635' and 4,726-74' are above packer and not being produced.

Job complete 12-31-68.



DRY 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 Tribe of Indians "E" #1
 Location SW NE (2310' FNL & 1980' FEL) of Section 10
 Sec. 10 Twp. 41N Rge. 28E County Apache Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-0603-412
 5. Field or Pool Name Boundary Butte, East

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF: <u>December, 1968</u>	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) _____	ABANDONMENT <input type="checkbox"/>

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

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

Summary of operations subsequent to report of 12-26-68. Continued swab testing, ran pump and rods and placed on production. Form #6, Potential Test Report will be submitted immediately on receipt in the Denver Office.



8. I hereby certify that the foregoing is true and correct.
 Signed [Signature] Title Dist. Supt. Date 1-2-69

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

Permit No. 58

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 Tribe of Indians "E" #1
 Location SW NE (2310' FNL & 1980' FEL) of Section 10
 Sec. 10 Twp. 41N Rge. 28E County Apache Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-0603-412
 5. Field or Pool Name Boundary Butte, East

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

4

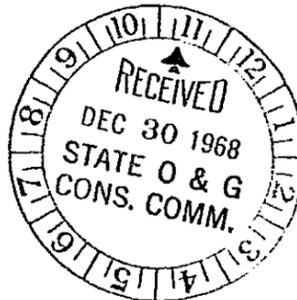
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>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

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

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

This report was overlooked as of 12-1-68. The following is a summary of work to 12-24-68.

On 12-5-68 perforated 4,500-18' and 4,558-94' with 2 SPF. Set bridge plug and packer, tested perforations 4,726-72'; swabbed 4 hours, recovered 10 BO, 50 BW and an estimated 100 MCFGPD. Moved and reset bridge plug and packer and tested perforations 4,500-18', 4,518-58', 4,558-94' and 4,594-4,644'. Swab tested 5 hours, recovered 20 BO and 40 BW. Shut in for night. Opened casing for 1 hour, recovered 30 BO and 30 BW, killed well. Perforated 4,920-30' and 4,942-54' with 2 SPF. Set packer at 4,830' and tested perforations 4,878-96', 4,920-30' and 4,942-54'. Swabbed 5 hours, recovered 103 BO and 42 BW. Reset packer and bridge plug to test perforations 4,500-4,644' and 4,726-72'. Currently swab testing these perforations.



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

Signed John F. Kuhn Title _____ Date 12-26-68

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

Permit No. 58

10

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 Tribe of Indians "E" #1

Location SW NE (2310' FNL & 1980' FEL) of Section 10

Sec. 10 Twp. 41N Rge. 28E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-0603-412

5. Field or Pool Name Boundary Butte, East

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

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

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

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

Work has not been started on the work-over proposed in our notice dated 9-30-68, but should get under way in approximately 2 to 3 weeks.

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

Signed J. Roy Dorrough
J. Roy Dorrough

Title Dist. Supt. Date 11-6-68

Permit No. 58

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



58

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.
14-20-603-412

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Navajo Tribe of Indians "E"

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Boundary Butte, East

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA
Sec. 10-41N-28E

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
SW NE (2310' FNL & 1980' FBL) of Section 10

14. PERMIT NO.
Arizona #58

15. ELEVATIONS (Show whether DP, ST, GA, etc.)
5,500' KB

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

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

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

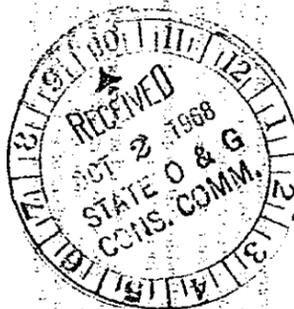
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to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

This well is currently producing oil from perforations 4878-96' with perforations 4518-58', 4594-4635' and 4726-74' not open to production.

We now propose to perforate and test additional intervals 4500-18', 4558-94', 4920-30' and 4942-54'. Stimulation will be attempted if deemed feasible and the well will be completed in as many zones as is prudently possible.

APPROVED

By John Barnette / Jc
Date 10/3/68



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

SIGNED Roy Donough JFL TITLE District Supt. DATE 9-30-68

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Permit
58

*See Instructions on Reverse Side

Instructions

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, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

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 purging 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 conditioned for final inspection looking to approval of the abandonment.

U.S. GOVERNMENT PRINTING OFFICE: 1961-O-085229
GPO 537-495 887-181

ARIZONA

EAST BOUNDARY BUTTE POOL
NAVAJO No. E-1

WORK ORDER TO OPEN AND TEST ADDITIONAL

11-2-68: Pulled rods and pump. Shut well in.

12-5-68: Ran pressure survey and pulled tubing and packer. Packer set at 4473'. Drilled out Model D packer at 4846'. Ran Schlumberger logging tool. Tool would not go below 4864' (top of liner). Ran swab without cups, jars, and sinker bars. Went thru top of liner to 5181'. Top of liner is damaged - could hardly get thru. Perforated with Schlumberger Hyperjet, 2 SPF, 4500-4518' & 4558-4594'. Preparing to set retrievable bridge plug and retrievable packer and test zone 4726-4772'.

12-10-68: Ran tubing with bridge plug and packer. Set plug at 4780', packer at 4720'. Tested zone 4726-4772'. Swabbed for 4 hours, rec. 60 bbls. fluid - est. 10 bbls. oil, 50 bbls. water. Casing pressure 7:00 AM 12-9 120#, casing pressure 7:00 AM 12-10 zero, TP 400#.

12-11-68: Swabbed 5 1/2 hrs. from perfs 4726-4772'. Rec. 20 bbls. fluid - 15 BW, 5 BO. Well making gas - est. at 100 MCF. Ran BHP survey on perfs 4726-4772'. Unseated retrievable BP at 4780' and retrievable packer at 4720'. Reset BP 4652', packer 4483'. Swabbed tubing from perfs 4500-4644' for 1 hr. Rec. 29 bbls. fluid - all water with trace of oil. Mostly load water. TP 7 AM 12-11-68 140#, CP zero.

EAST BOUNDARY BUTTE POOL
NAVAJO NO. E-1

12-12-68: Swab tested perfs 4500-4644', 5 hrs., rec. 60 bbls. fluid - 20 bbls. oil, 40 bbls. water. Ran BHP survey. Pulled tubing with 5 1/2" packer and retrievable BP & SI for night.

12-13-68: CP 450#. Opened casing 1 hr., rec. 60 bbls. fluid - 30 bbls. oil, 30 bbls. water. Killed well. Ran tubing with tapered mill. Milled out top of 3 1/2" liner 4 1/2". Pulled tubing and mill. Ran logging tool in liner to 5174'. Perf. w/Sch. strip gun, 2 holes/ft., 4920-30', 4942-54'. SI for night.

12-14-68: SI.

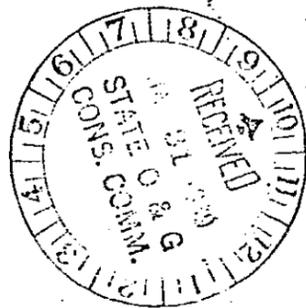
12-15-68: CP 250#. Ran tubing with retrievable BP & pkr. Could not get BP to go in liner. Pulled tubing. Removed BP. Reran tubing with pkr, would not go in liner. SD for night.

12-16-68: TP 300#. Ran tubing with 5 1/2" packer plus 120' 1 1/2" tubing for tailpipe. Tubing would not go in liner. Pulled tubing. Took off 1 1/2" tubing except 30'. Now rerunning tubing with 5 1/2" packer and 30' 1 1/2" tubing.

12-17-68: TP 800#, CP 170#. Finished running 2 1/2" tubing and 5 1/2" packer. Set packer 4830'. Swabbed tubing for 6 hrs. Rec. 121 BO, 15 BW as follows: 1st hr. - 5 BO, 15 BW; 2nd hr. - 28 BO; 3rd hr. - 20 BO; 4th hr. - 25 BO; 5th hr. - 20 BO; 6th hr. - 23 BO. Avg. GO last 5 hrs. 1.5% BS. Gravity 36.2 at 55°.

12-18-68: TP 800#, CP 100#. Rams on BOP leaked off gas. Swabbed 5 hrs. from perfs 4878-96', 4920-30', and 4942-54' with packer at 4830'. Rec. total 144 bbls. fluid, 103 bbls. oil, 42 bbls. water as follows: 1st hr. 26 bbls., .8% BS; 2nd hr. 32 bbls., 2% water; 3rd hr. 30 bbls., 4% water; 4th hr. 27 bbls., 4% water; 5th hr. 29 bbls., 5% water. SI for night.

*Planned repairs
informal
information*



#558

ARIZONA
EAST BOUNDARY BUTTE POOL
NAVAJO NO. E-1
(Continued)

12-19-68: Pulled tubing and packer. Reran tubing with 5½" retrievable bridge plug and 5½" packer. Set BP 4830', packer 4486'. Swabbed perfs 4500-4644' & 4726-4772' 3 hrs., rec. 75 bbls. fluid - 40 BW, 35 BO. SI for night. This AM TP 600, CP zero.

12-20-68: Swabbed 7 hrs., rec. 56 BO, 147 BW from perfs 4500-4644' & 4726-4772', fair amount of gas, as follows: 1st hr. 35 BF, 2nd hr. 28, 3rd hr. 31, 4th hr. 28, 5th hr. 27, 6th hr. 26, 7th hr. 28. This AM TP 600, CP zero.

12-21-68: TP 600#. Swabbed 7 hrs., rec. 117 bbls. fluid - 60 BO, 57 BW, as follows: 1st hr. 34, 2nd hr. 28, 3rd hr. 11, 4th hr. 8, 5th hr. 10, 6th hr. 14, 7th hr. 12.

12-22-68: TP 500#. Swabbed 7 hrs., rec. 74 bbls. fluid - 51 BO, 23 BW, as follows: 1st hr. 14, 2nd hr. 9, 3rd hr. 13, 4th hr. 10, 5th hr. 11, 6th hr. 8, 7th hr. 9.

ARIZONA
EAST BOUNDARY BUTTE POOL
NAVAJO NO. E-1

12-23-68: TP 800#. Prep. to run impression block on top of 3½" liner. Swabbed 7 hrs., rec. 53 bbls. fluid - 20 BO, 33 BW, as follows: 1st hr. 12, 2nd 8, 3rd 7, 4th hr. 6, 5th hr. 6, 6th hr. 8, 7th hr. 6.

12-24-68: TP 800#. Pulled tubing with packer and BP. Tried to run 4-7/8" OD impression block - impression block would not go below 4483'. Bad place in 5½" casing. SI for night.

12-25-68: SD for Christmas.

12-26-68: Ran 4½" impression block - found top of liner in very bad shape. Ran 2½" tubing with 5½" Lok-set packer and set at 4830' with 31' of 2-3/8" tubing below packer as tail-pipe. Now running rods and pump.

ARIZONA
EAST BOUNDARY BUTTE POOL
NAVAJO NO. E-1

12-27-68: Ran rods & pump.

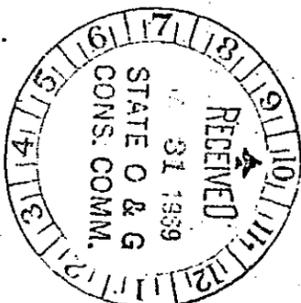
12-28-68: Testing.

12-29-68: Testing.

12-30-68: Testing.

12-31-68: Pumped 62 bbls. oil, 120 bbls. water in 24 hrs.

TP 160#, CP 60#. 2½ x 2 x 18' pump, 64" stroke, 15 SPM. Production prior to workover - 48 bbls. oil, 106 bbls. water. WORKOVER COMPLETE.



#58

OPERATOR'S CERTIFICATE OF COMPLIANCE AND AUTHORIZATION

Navejo Tribe of Indians "E" TO TRANSPORT OIL OR GAS FROM LEASE

Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-603-412	Field East Boundary Butte	Reservoir Paradox
Survey or Sec-Twp-Rge Sec. 10-41N-28E G&SR	County Apache	State Arizona
Operator Humble Oil & Refining Company		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street P. O. Box 120	City Denver,	State Colorado 80201
Above named operator authorizes (name of transporter) Four Corners Pipeline Company (% Shell Oil Company)		
Transporter's street address P. O. Box 2648	City Houston,	State Texas 77001
Field address P. O. Box 1588, Farmington, New Mexico 87401		
Oil, condensate, gas well gas, casinghead gas		
To transport	100	% of the Oil from said lease.
OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:		
Name of gatherer	% transported	Product transported
None		



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

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

August 16, 1967
Date _____ Signature _____

Date approved: 8-17-67

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By: John J. Gammeter

- Permit No. 58
- cc: 1 - Mr. Henry F. Pohlman, Minerals
Supr., Navajo Tribe
2 - U.S.G.S. - Farmington
1 - Worth Nelson - Oklahoma City

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Operator's Certificate of Compliance & Authorization to
Transport Oil or Gas from Lease

File Two Copies

Form No. 8

OPERATOR'S CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL OR GAS FROM LEASE		
Federal, State or Indian Lease Number, or lessee's name if fee lease 16-20-602-412	Field East Boundary Route	Division Permian
Survey or Sec-Twp-Rge SW NE Sec. 10-41N-28E	County Apache	State Arizona
Operator Humble Oil & Refining Company		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street P. O. Box 120	City Denver	State Colorado 80201
Above named operator authorizes (name of transporter) The Permian Corporation		
Transporter's street address P O Box 3119	City Midland	State Texas 79701
Field address P O Box 1702, Farmington, New Mexico 87401		
Oil, condensate, gas well gas, casinghead gas		
To transport	100 % of the	Oil from said lease.
OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:		
Name of gatherer	% transported	Product transported
None		
Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change. Change of Gatherer. Effective March 1, 1967.		

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

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

February 21, 1967

Date

Signature

Date approved:

2-24-67

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By:

Permit No.

58



STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Operator's Certificate of Compliance & Authorization to
Transport Oil or Gas from Lease

File Two Copies

Form No. 8

58

POTENTIAL TEST AND REQUEST FOR ALLOWABLE OIL WELLS

DESIGNATE TYPE OF COMPLETION:

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

Other Reason For Filing:
Recompleted as an oil well.

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

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or Lessor's Name if Fee Lease 14-20-603-412	Well Name Navajo Tribe of Ind. E	County Apache
Footage Location 2310' FNL & 1980' FEL		
Sec. Twp. Rge. 10-41N-28E		
Date spudded -	Date completed, ready to produce 8/24/65-Recompleted	Total depth 5410'
Field and reservoir Hermosa		P.B.T.D. 5200'
		Producing interval 4878-4896

TEST DATA

Date of first production 8/5/65	Date of test 8/24/65	Length of test 24 hrs.	Producing method (flow pump, gas lift) Flow	Amount of load oil injected if any. -
Number of barrels of oil produced from completion or recompletion date to test date -		If well is produced by pumping, give pump size, length of stroke and strokes per minute. -		
Tubing pressure 280 psi	Casing pressure -	Choke size 17/64		
*Actual production during test:	Oil (bbls) 334	Water (bbls) 0	Gas (MCF) 226	
*Production must actually equal or exceed wells daily allowable or test must be for full 24 hours				
Gas-oil ratio 677	MCF/bbl.	Oil gravity 40.1	*API corrected	Name of transporter of oil McWood Corp.
Number of acres attributed to this well -	Number of producing wells in this reservoir on this lease, including this well 1	Single, dual or triple completion? Dual	Daily allowable requested (bbls) McWood	

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

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

Date: 9/14/65
Signature: *[Signature]*

Witnessed by: _____ Organization _____
Signature _____
Date _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Potential Test & Request for Allowable—Oil Wells
File One Copy

Permit No. _____ Form No. 6

12



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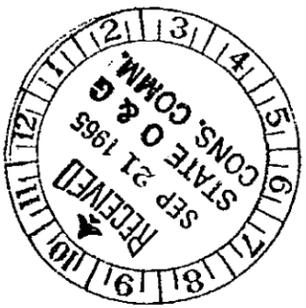
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INDRY NOTICES AND REPORTS ON WELLS

CORRECTED
58

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

2. OIL WELL GAS WELL OTHER (Specify) _____

3. Well Name Navajo Tribe of Indians "E" Well No. 1

Location SW NE (2310' FNL & 1980' FEL)

Sec. 10 Twp. 41N Rge. 28E County Apache, Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-603-412

5. Field or Pool Name _____

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>Recompleted 8-24-65 as an Oil Well</u>	ABANDONMENT <input type="checkbox"/>

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

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

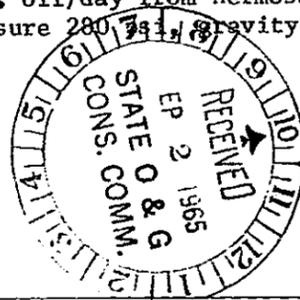
The original Sundry Notice dated 7-16-65 was for perforating and stimulating an additional pay zone in Hermosa formation. The well status has now changed from a single zone gas well (perforations 4518-58', 4594-4635', 4726-74') to an oil well through perforations 4878-96'.

See Sundry Notice dated 8-6-65 for work prior to August 11, 1965.

PBTD 5200', PB from 5410'. Moved in well servicing unit on 8-11-65, killed well with tailored water. Pulled 2" tubing with Model EGJ Baker packer. With wireline set Baker Model D packer @ 4846'. Set 5 1/2" Baker EGJ packer @ 4474' while stinging into Model D packer @ 4846'. Swabbed perforations 4878-96', well started flowing.

Recompleted 8-24-65 as an oil well, flowed 334 bbls. oil/day from Hermosa Lime through perforations 4878-96'. Tubing flowing pressure 280.7 psi, gravity 40.1 corrected. No water. GOR 677 cu. ft./bbl.

Note: This replaces Sundry Notice dated 8-27-65.



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

Signed [Signature] Title Dist. Supt. Date 8-31-65

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

Permit No. _____

14

August 31, 1965

Memo to: File
From: John Bannister, Executive Secretary

re: Humble Oil & Refining Company #1-E Navajo well
SW NE 10-41N-28E, Apache County
File No. 58

Mr. Jack Adams of the Humble office in Denver contacted us this date concerning Humble's requested hearing on September 22.

Mr. Adams informed me that Humble had made an error in requesting this dual completion at this time. Humble is currently conducting a U.S.G.S.-required 60-day production test and anticipates that this well will remain as an oil well. However, should they later decide to dually complete, a request for hearing will be made.

The gas zone has a Baker-D packer set below it at 4,846 feet and a second packer set at 4,474 feet, with tubing run between the packers. The gas zone consequently is completely closed off and cannot produce at this time.

Mr. Adams further reported that production for August 29 was 360 barrels of oil with gas from this zone at 201 MCF and a gas-oil ratio of 550.

The bottom hole pressure is declining. However, this is to be expected in this zone.

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

Federal, State or Indian Lease Number 14-20-003-412	Field East Boundary Butte	Reservoir Hermosa
Survey or Sec-Twp-Rge SW NE Sec. 10-41N-28E	County Apache	State Arizona
Operator Humble Oil & Refining Company		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street Box 120	City Denver	State Colorado 80201
Above named operator authorizes (name of transporter) Mc Wood Corporation		
Transporter's street address Box 330	City Abilene	State Texas
Field address Box 1702 Farmington, New Mexico		
Oil, condensate, gas well gas, casinghead gas		
To transport	100 % of the	Oil from said lease.
OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:		
Name of gatherer None	% transported	Product transported
Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change. This certificate filed per request of Arizona Oil & Gas Conservation Commission.		

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

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

Date August 23, 1965

Signature [Handwritten Signature]

Date approved: Aug 26, 1965

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By: John Kinnister
Permit No. 58

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

17

4 "DRY NOTICES AND REPORTS ON WELLS"

1. Name of Operator Humble Oil & Refining Company, P. O. Box 120, Denver, Colorado
 2. OIL WELL GAS WELL OTHER (Specify) **APPROVED**
 3. Well Name Navajo Tribe of Indians "E" Well No. 1
 Location SW NE (2310' FNL & 1980' FEL) By John J. Bannister
 Sec. 10 Twp. 41N Rge. 28E Co. Apache Date Aug 9, 1965 Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-603-412

OIL & GAS CONSERVATION COMMISSION
 STATE OF ARIZONA
 1624 WEST ADAMS - SUITE 202
 TELEPHONE 271-3181
 PHOENIX, ARIZONA, 85009

5. Field or Pool Name East Boundary Butte
 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>Opening Additional Zone</u>	ABANDONMENT <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.)

PBTD 5200' PB from 5410'.

Moved in workover unit on July 26, 1965. Killed well with tailored water, pulled tubing. Cleaned out to 5200', ran Lane Wells correlation log. Perforated 4878-96' with two holes per foot using Lane Wells Bar Gun. Ran 2-3/8" tubing with EGJ Baker packer set at 4838'. Pumped 250 gallons MCA acid in perforations 4878-96'. Swabbed load water. Opened well on 8-5-65 on 16/64" choke, flowed 7 hours, recovered 94 bbls. oil, grindout .2% water. Gravity 40.5 @ 60°, GOR 1100, Tubing Flowing Pressure 480#, Casing Pressure 200#.

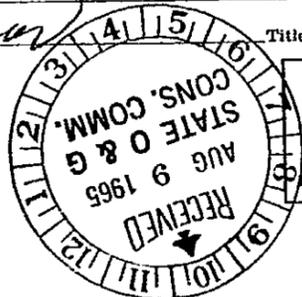
Permission is requested to produce this well for testing purposes until a permanent production method is determined.

APPROVED

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

Signed [Signature] Title Dist. Oper. Supt. Date August 6, 1965

Permit No. 58



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

Recompletion: 8-20-65

Flowed 214 30/24 hrs. on "14/64" ch. Are
measuring gas. Gas volume is low. (GOR approx.
1000. Gas has declined.)

DRY 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 Tribe of Indians "E" Well No. 1
 Location SW NE (2310' FNL and 1980' FEL)
 Sec. 10 Twp. 41N Rge. 28E County Apache Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-603-412

5. Field or Pool Name East Boundary Butte

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

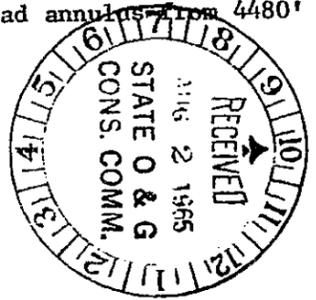
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	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"/>		ABANDONMENT <input type="checkbox"/>
(OTHER) <u>Open additional zone in Hermosa</u>	<input checked="" type="checkbox"/>	(OTHER) _____	<input type="checkbox"/>

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

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

This is our Notice of Intention to perforate and stimulate an additional pay zone in the Hermosa formation. Kill well with tailored water. Check total depth with wireline, then clean out if necessary to 4910', using sand pump if possible. If sand pump is successful, perforate with Koneshot Bar gun 4878-96'. Acidize perforations 4878-96' with 250 gallons MCA and test. If gas is recovered acidize with 5000 gallons CRA and swab. (If fillup or bridge plug has to be drilled out then perforating will be with abrasijet at 4880', 4882', 4885', 4887', 4889', 4891', 4893' and 4895'. Acidize hydrjet notches with 250 gals. MCA followed with 5000 gals. of CRA). Run tubing with Baker Model N packer with flapper valve, set packer @ 4850'. Clean existing perforations and establish satisfactory gas producing rate. Sting into Model N packer and set Model R-3 packer @ 4480' with blank joints through intervals between packers. (Old perforations will be opened in the future by perforating tubing). Swab and test perforations 4878-96'. Load annulus from 4480' to surface with inhibited water.

APPROVED
 By John Rammeter
 Date Aug 3, 1965



8. I hereby certify that the foregoing is true and correct.
 Signed [Signature] Title Dist. Oper. Supt. Date July 30, 1965

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

Permit No. 58
70

Form 9-331
(May 1963)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THIS MANNER
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.
14-20-603-412

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
Navajo Tribe of Indians "E"

8. FARM OR LEASE NAME
Navajo Tribe of Indians "E"

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
East Boundary Butte

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 10-41N-28E

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

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

SW NE Section 10-41N-28E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, OR, etc.)
5500' KB

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

NOTICE OF INTENTION TO:

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

FULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

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

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

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

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

Kill well with tailored water. Check TD w/wireline, then clean out if necessary to 4910', using sand pump if possible. If sand pump is successful, perforate with Koneshot Bar gun 4878-96'. Acidize perf. 4878-96' w/250 gals. MGA and test. If gas is recovered acidize with 5000 gals. CRA and swab. (If fillup or bridge plug has to be drilled out then perforating will be with abrasijet at 4880', 4882', 4885', 4887', 4889', 4891', 4893' and 4895'. Acidize hydraset notches with 250 gals. MGA followed with 5000 gals. of CRA.) Run tubing with Baker Model N packer with flapper valve, set packer @ 4450'. Clean existing perforations and establish satisfactory gas producing rate. String into model N packer and set model R-3 packer @ 4480' with blank joints through intervals between packers. (Old perforations will be opened in the future by perforating tubing). Swab and test perforations 4878-96'. Load annulus from 4480' to surface with inhibited water.

THE ABOVE PROCEDURE IS FOR PERFORATING AND STIMULATING AN ADDITIONAL PAY ZONE IN HERMOSA FORMATION.



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

SIGNED Original signed by: Roger S. Frazier

TITLE **Dist. Oper. Super.**

DATE **July 16, 1963**

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

*See Instructions on Reverse Side

Permit 58

STATE OF ARIZONA
OIL AND GAS CONSERVATION COMMISSION
PHOENIX, ARIZONA

FORM O&G 52

Form Prescribed Under Oil and Gas Conservation Act of 1951
WELL COMPLETION REPORT
(File in Duplicate)

Operator Humble Oil Refining Company Field Fort Huachuca
Street P.O. Box 2347 Pool Fort Huachuca
City Huma, State New Mexico County Yuma, Arizona
Lease Name Apache Tribe of Indians Well No. 1 Acres in Unit 1
Location 2 1/2 miles north of Huma and 100' from road
SW/4 of NE/4 Sec. 10 Twp. 14N Rge. 22E
Elevation DF 5420 GR 5425 Electric Log Run 11-19-60 19
Number of Crude Oil Producing Wells on this Lease, including this well 1
Has Authorization to Transport Oil or Gas From Well. Form O&G 57 been filed? yes

OFFICIAL COMPLETION GAUGE

Date Test Commenced 11-23-60 Hour 11:30 M. Date Test Completed 11-19-60 Hour 11:30 AM
Length of Test 24 Hours - Minutes

For Flowing Well: For Pumping Well:
Flowing pressure on Tbg 250 lbs / sq in. Length of stroke used - inches
Flowing pressure on csg 250 lbs / sq in. Number of strokes per min. -
Size tbg. 2" in No. ft. run 443 Size of working barrel - inches
Size choke 2 1/2 in. Type choke 2 1/2 Size tubing - in. No. ft. run -
Length - in. Shut in pressure -

If flowing well, was this well flowed for the entire duration of this test without the use of swab or other artificial flow device? yes If jetted, used - cu. ft. gas per bbl. oil. Result of this test (bbls. net oil per 24 hrs.) (100% tank tables.)
Gas-oil ratio of this well is 778 cu. ft. of gas per bbl. of oil.
Per cent water produced during this test 41.6

Gravity of oil produced during this test (Corrected to A. P. I. 60° F)
Name of Pipe Line or other carrier New Mexico Corporation
If perforated: No. Shots 18 From 7518 To 7558 Date Perforated 11-17-60
Date well spudded 11-14-60 19 Date Well Completed 11-30-60 19
Top Pay 4518 Ft. Total depth of well 5710 Ft.

CASING LINER AND TUBING RECORD

String	Size	Wt. / Ft.	Name and Type	Amount Ft. In.	Depth Set at	Perforated From	To
Surface	8-5/8"	24#	J-55 SR STC	1000	1015	-	-
Cil	5"	14#	J-55 SR STC	479	493	4804	4644
Liner	3"	9.3#	A-20 X-Line	545	5409		
tbg	2-3/8"	4.7#	J-55 SR EUE	442	444		

CEMENT AND TESTING RECORD

Size of Hole	String	Where Cement Placed	No. Sacks Cement	Method Used	Pressure Applied in Testing	Hardness of Cement Drilled	Type of Cement
12"	8-5/8"	1015 Surface	450	pumped	1000#	hard	3/4 gal neat
7-7/8"	5"	4822' - 1005'	1130	pumped	1000#	hard	neat
4-7/8"	3"	5409' - Gal Philip 115' (bu' over)			1000#	hard	neat

CHEMICAL OR SHOOTING RECORD BEFORE COMPLETION

Size	Chemical or	Quantity	Date	From	To
5 1/2"	Frac	10,000 lbs	11-16-60	4504	4644
5 1/2"	Frac	Same	11-19-60	4518	4558

AFFIDAVIT

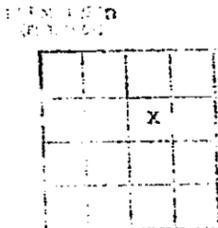
I, R. G. Tonkin, being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

R. G. Tonkin
Representative of Company

Subscribed and sworn to and before me this 1st day of December 19 60

Las County, Ariz. Notary Public
My Commission expires: 6-28-61

58-24



(COPIES IN TRIPPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LEASE NO. 14-20-603-412

CON. Lse No. 19691

SUNDRY NOTICES AND REPORTS ON WELLS

TITLE OF REPORT	DATE OF REPORT
NAME OF REPORTER	NAME OF COMPANY
ADDRESS OF REPORTER	ADDRESS OF COMPANY
NAME OF WELL	LOCALITY
STATE	COUNTY
SECTION	TOWNSHIP
RANGE	MERIDIAN
DEPTH OF WELL	DATE OF WORK
NATURE OF WORK	RESULTS
REMARKS	REMARKS

Navajo Tribe of Indians "E"

Hobbs, N.M., Nov. 30, 1960

WELL NO. 1 LOCATION 2310 (N) LINE AND 1980 FT FROM (E) LINE OF SEC. 10

SW/4 of NE/4 Sec 10 41-N 28-E

East Boundary Butte Apache Arizona

THE ELEVATION OF THE DEPTH OF WELL ABOVE SEA LEVEL IS 5499 FT

DETAILS OF WORK

Pulled 2" tbg. Ran ring to check csg. Ran short collar log. Set retrievable bridge plug at 4700'. Perf 5 1/2" csg 4592-4644 w/2 shots per ft. Ran 131 lbs 2" tbg, set Baker Pkr at 4550'. Frac perf from 4592-4644' w/10,000 gal lse crude and 10,000# 20/40 sand, avg in. rate 15 EPV. Washed out sand to top of retrievable bridge plug and reset at 4570'. Perf 5 1/2" csg from 4518-4568 w/2 shots per ft. Frac perforations w/10,000 gal lse crude and 10,000# 20/40 sand, avg in. rate 17 EPV. Pulled tbg and bridge plug. Ran 2" tbg and set Baker Packer at 4454'. Rec all load oil. Pot test - 24 hr - 11-24-60 - well produced 445 bbls PLO, 324 mcf/d, GCR 728.

THIS REPORT IS THE PROPERTY OF THE GEOLOGICAL SURVEY AND IS LOANED TO YOU BY THE SURVEY. IT IS TO BE RETURNED TO THE SURVEY AT THE END OF THE PERIOD FOR WHICH IT IS LOANED TO YOU.

Company Frontier Oil & Gas Company

Address Box 2347, Hobbs, N.M. By R. G. Yonkin

TITLE ASG

STATE OF ARIZONA
OIL AND GAS CONSERVATION COMMISSION
PHOENIX, ARIZONA

FORM O&G 54

Form Prescribed Under Oil and Gas Conservation Act of 1951

SHOOTING OR TREATING REPORT

(File Report on This Form Within 30 Days After Shooting or Treating a Well)

Operator Humble Oil & Refining Company Field East Boundary Butte
Pool Unper Hermosa
County Apache, Arizona

Lease Name Navajo Tribe of Indians "E" Well No. 1
Section 10 Township 41-N Range 28-E
Date Shot or Treated 11-16-60, 1960
Daily Production Before Treating or Shooting: 0 Oil 0 Bbl.; Water 0 Bbl.
Daily Production After Treating or Shooting: 445 Oil 0 Bbl.; Water 0 Bbl.
Producing String of Casing (Set or Cemented at) 4893 Ft.
Depth to Top of Producing Sand or Formation 4518 Ft.
Formation Shot or Treated: Top-Ft. 4518 Bottom-Ft. 4644
Size of Shot Used: - Qts. Amount of Acid Used: - Gals.
Remarks Frac perforations from 4518 - 4558 w/10,000 gal lse oil and 10,000# 20/40
sand, avg inj rate 15 BPM. Frac perforations from 4594-4644' w/10,000 gal lse oil and
10,000# 20/40 sand, avg inj rate 17 BPM.

R. G. Jenkins
(Representative of Operator of Well)

5/12/58

58

NEW WELL COMPLETION
(OFFICIAL COMPLETION GAUGE)

Date of First Production Test 11-23-60 Date of Completion Gauge 11-24-60

Total Oil saved while testing well prior to the date of the official completion gauge _____

150 Barrels

Production Gauge on 24 Hour Basis 445 Bbl. Oil; 4/10 of 1" 324 WCF Gas
_____ % Water;

The undersigned certifies that the Rules and Regulations of the Commissioner have been complied with except as noted above, and that the transporter(s) authorized to transport the percentage of Oil and/or Gas produced from the above described drilling unit, and that this authorization will be valid until further notice to the transporter named herein or until cancelled by the Commissioner.

Executed this the 30th day of November 19 60

Phillips Oil & Refining Company
(Company or Operator)

R.G. Jenkin Agent
(Affiant) (Title)

STATE OF New Mexico

COUNTY OF Lee

Before me, the undersigned authority, on this day personally appeared _____

R. G. Jenkin, known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct

Subscribed and sworn to before me this the 30th day of November 1960

May Law Hader

Lee County, New Mexico
Notary Public in and For

Approved Charles Kalil, M.D.
COMMISSIONER

My Commission Expires: June 28, 1961

By: _____

(FOLLOW INSTRUCTIONS IN INSTRUCTION SHEET)

3-43
9/5/58

58

58

STATE OF ARIZONA
OIL AND GAS CONSERVATION COMMISSION

FORM O&G 55

Form Prescribed Under Oil and Gas Conservation Act 1951
APPLICATION TO ABANDON, PLUG, DEEPEN, SIDETRACK OR PERFORATE

(After Well Has Once Been Completed)

INSTRUCTIONS: - - File in duplicate with Commissioner. One copy will be returned with approval or denial.

FIELD: East Boundary Butte
OPERATOR: Humble Oil & Refg. Co. ADDRESS Box 2347, Hobbs, New Mexico
LEASE: Navajo Tribe E WELL NO. 1 COUNTY Apache
SURVEY: G & SR SECTION 10 DRILLING PERMIT NO.: _____
LOCATION: 2310 Ft. from NL, 1980 Ft. from EL, Sec. 10, T-41N, R-28E

TYPE OF WELL: Shut-in Oil TOTAL DEPTH 4804
(Oil, Gas or Dry Hole)

ALLOWABLE (If Assigned) None
LAST PRODUCTION TEST: OIL 46 (Bbls.) Water None (Bbls.)
GAS 1012 (M. C. F.) DATE OF TEST 5-22-59

PRODUCING HORIZON Upper Hermosa PRODUCING FROM: 4726 TO 4772

1. COMPLETE CASING RECORD: 8-5/8", 24#, SR, Casing, 999.78 set at 1,015.23,
cemented with 450 sacks cement. 5-1/2", 14#, SR, Casing, 4879.10 set at 4,893.00,
cemented with 330 sacks cement. 3-1/2", 9.3#, Hydril, X-Line Liner, 545.22 set at
5,409.00.

2. FULL DETAILS OF PROPOSED PLAN OF WORK: 1. Reperforate interval from 4594-
4644, 2 jets per foot; 2. Stimulate perforated interval from 4594-4644 feet with 10,000
gallons lease crude and 10,000 pounds sand; 3. Perforate interval 4518-4558, 2 jets per foot;
4. Stimulate perforated interval from 4518-4558 with 10,000 gallons lease crude and 10,000
pounds sand.

If the well is to be deepened to another zone other than that covered by permit, this form shall be accompanied by a certified lease plat as is prescribed on Form No. O&G 51.

If the well is to be abandoned, does proposed work conform with requirements of Rule 26? _____ . If not, outline procedure proposed above.

DATE COMMENCING OPERATIONS: Estimated date: October 28, 1960
NAME OF PARTY DOING WORK: Unknown ADDRESS _____
CORRESPONDENCE SHOULD BE SENT TO: Humble Oil & Refining Company

NAME: Mr. R. R. Alworth R. R. Alworth

TITLE: Agent

APPROVED: OK 27 DAY OF Oct 1960

DENIED: _____ DAY OF _____ 19____

W. M. ...
OIL AND GAS COMMISSION

BY _____



FORM 9-3311 b
(FEB. 1952)

	X		

(SUBMIT IN TRIPLICATE)

INDIAN Agency
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BUDGET BUREAU 42-5553.3
APPROVAL EXPIRES 12-31-55.

LEASE NO. 14-20-603-412
UNIT _____
Co. Lse. No. 196914

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHUT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO PERFORATE SAND OIL FRAC			
<u>Perforate sand-oil frac</u>	X		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Navajo Tribe "E"

Hobbs, New Mexico October 20, 1960

WELL NO. 1 IS LOCATED 2310 FT. FROM {N} LINE AND 1980 FT. FROM {E} LINE OF SEC. 10
SW/4 of NE/4 Sec. 10 41-N 28-E G & SR
(1/4 SEC. AND SEC. NO.) (TWP.) (RANGE) (MERIDIAN)
East Boundary Butte Apache Arizona
(FIELD) (COUNTY OR SUBDIVISION) (STATE OR TERRITORY)

THE ELEVATION OF THE DERRICK FLOOR ABOVE SEA LEVEL IS 5499 FT.

DETAILS OF WORK

(STATE NAMES OF AND EXPECTED DEPTHS TO OBJECTIVE SANDS; SHOW SIZES, WEIGHTS, AND LENGTHS OF PROPOSED CASINGS; INDICATE MUDDING JOBS, CEMENTING POINTS, AND ALL OTHER IMPORTANT PROPOSED WORK.)

Present producing interval: 4726-4772 feet.

Intended Workover Procedure:

1. Reperforate interval from 4594 - 4644, 2 jets per foot.
2. Stimulate perforated interval from 4594-4644 feet with 10,000 gallons lease crude and 10,000 pounds sand.
3. Perforate interval 4518-4558', 2 jets per foot.
4. Stimulate perforated interval from 4518-4558' with 10,000 gallons lease crude and 10,000 pounds sand.

I UNDERSTAND THAT THIS PLAN OF WORK MUST RECEIVE APPROVAL IN WRITING BY THE GEOLOGICAL SURVEY BEFORE OPERATIONS MAY BE COMMENCED.

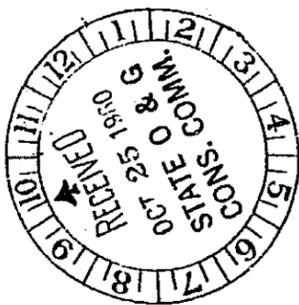
COMPANY Humble Oil & Refining Company

ADDRESS Box 2347, Hobbs, N. M.

By ARVIN D. EADY
ORIGINAL SIGNED:

BKB/mcb

TITLE Agent



14982

Form Prescribed Under Oil and Gas Conservation Act of 1951
WELL COMPLETION REPORT
(File in Duplicate)

Operator Humble Oil & Refining Company Field East Boundary Butte
Street Box 1268 Pool Upper Hermosa
City Farmington State New Mexico County Apache, Arizona
Lease Name Navajo Tribe of Indians "E" Well No. 1 Acres in Unit
Location 2310' from North line and 1980' from East line
SW/4 of NE/4 Sec. 10 Twp. 41-N Rge. 28-E
Elevation DF 5499' GR 5485' Electric Log Run September 18, 19 58
Number of Crude Oil Producing Wells on this Lease, Including this Well 1
Has Authorization to Transport Oil or Gas from well, Form 9, been Filed? O&G 57

OFFICIAL COMPLETION GAUGE

Date Test Commenced 10-5-1958 Hour 4PM Date Test Completed 10-6-1958 Hour 4A M
Length of Test 12 Hours 0 Minutes
For Flowing Well: For Pumping Well:
Flowing pressure on tbg. 260 lbs./sq.in. Length of stroke used _____ inches
Flowing pressure on csg. Packer lbs./sq.in. Number of strokes per min _____
Size tbg. 2 in. No. ft. run 4633' Size of working barrel _____ inches
Size choke 5/16 in. Type choke T&C Adj. Size tbg. _____ in. No. ft. run _____
Length _____ in. Shut in pressure 330# 10-13-58
If flowing well, was this well flowed for the entire duration of this test without the use of swab or other artificial flow device? Yes. If jetted, used _____ cu. ft. gas per bbl. oil. Result of this test (bbls. net oil per 24 hrs.) 359.88 (100% tank tables.)
Gas-oil ratio of this well is 559 cu. ft. of gas per bbl. of oil.
Per cent water produced during this test 3%
Gravity of oil produced during this test (Corrected to A.P.I. 60° F) 41.6
Name of Pipe Line or other carrier McWood Corp. Trucks
If perforated: No. Shots 100 From 4594' To 4644' Date Perforated 10-2-58
Date Well Spudded August 11, 19 58 Date Well completed October 5, 19 58
Top of pay 4594 Ft. Total depth of well 5410 Ft. 4652' PB D

CASING LINER AND TUBING RECORD

String	Size	Wt./Ft.	Name and Type	Amount Ft.	Depth In. Set at	Perforated From	To
Surface	8-5/8"	24#	J-55 8R STC	1000'	1015'	-	-
Oil	5-1/2"	14#	J-55 8R STC	4879'	4893'	4594'	4644'
Liner	3-1/2"	9.3#	N-80 X-Line	545'	5409'	4726'	4772'
					(Top of liner @ 4864')		
Tubing	2-3/8"	4.7#	J-55 8R EUE	4633'	4644'	-	-

NOTE: Bridge plug set at 4655' and 3-1/2" liner and Paradox zone plugged off.

CEMENT AND TESTING RECORD

Size of Hole	String	Where Cement Placed	No. Sacks Of Cement	Method Used	Pressure Applied in Testing	Hardness of Cement Drilled	Type of Cement
12-1/4"	8-5/8"	1015'-Surface	450	Pumped	1000#	Hard	4% gel & Neat
7-7/8"	5-1/2"	4893'-1005'	1130	Pumped	1500#	Hard	Neat
4-7/8"	3-1/2"	5409'-Cal. Fillup	115 (4 batches)	Pumped	3000#	Hard	Neat

CHEMICAL OR SHOOTING RECORD BEFORE COMPLETION

Size	Chemical Or	Quantity	Date	From	Depth To
5 1/2" Csg.	Mud Acid	1000 Gal.	10-4-58	4594'	4644'
3 1/2" Csg.	Breakdown acid	500 Gal.	9-28-58	4726'	4772'
3 1/2" Csg.	Mud Acid	1000 Gal.	9-29-58	4726'	4772'

AFFIDAVIT

I, Russell M. Lilly, being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

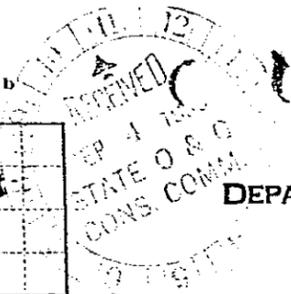
Russell M. Lilly
Representative of Company

Subscribed and sworn to before me this 22nd day of October, 19 58

San Juan County, Arizona N. Mex.

E. S. Davis
Notary Public E. S. Davis

Form 9-331 D
(April 1932)



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-10359.4
Approval expires 12-31-60.

Agency _____

Allottee _____

Lease No. **14-20-603-111**
Co. Int. No. **1962A**

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	Subsequent report of well workover	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Navajo Tribe #2

Hobbs, New Mexico September 1, 1959

Well No. **1** is located **2010** ft. from **N** line and **1700** ft. from **E** line of sec. **20**
20/4 of 10/4 Sec. 20 **21-N** **24-S** **11-W**
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
East boundary Hobbs **Apache** **Arizona**
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **3499** ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Results of test after workover:
5-10-59: 24 hr. test on 16/64" choke flowed 28 bbls. FLO, OGR 14,737, TR-1000, CR-2000.
5-21-59: 24 hr. test on 16/64" choke flowed 18 bbls. FLO, OGR 14,023, TR-7000, CR-2000.
5-22-59: 24 hr. test on 16/64" choke flowed 18 bbls. FLO, TR-7000, CR-2000.
Well shut in waiting on gas connection.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **Mobile Oil & Refining Company**
Box 2347
Address **Hobbs, New Mexico**
By **R. R. Alworth**
Agent
Title _____

ORIGINAL SIGNED: P. R. ALWORTH

30

Form 9-3311
(April 1952)

	X	

Work report
(SUBMIT IN TRIPLICATE)

Budget Bureau No. 42-16359.4
Approval expires 12-31-53
Navajo

Indian Agency _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee **14-20-603-412**

Lease No. **Co. Lee. #196914**

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	Subsequent report of well workover	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Navajo Tribe of Indians "B" **Farmington, New Mexico** **April 9, 1959**

Well No. **1** is located **2310** ft. from **N** line and **1980** ft. from **E** line of sec. **10**

SW/4 of NE/4 **41N** **28E** **G & S R**

(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

East Boundary Butte **Apache** **Arizona**

(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **5499** ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Well shut in 1-14-59 after becoming high gas-oil ratio producer. Moved in rig 3-23-59 for workover job. Released packer, spotted 200 gal. Dowell Gel X-820. Pulled tubing and packer. Set Sweet formation packer at 4626'. Waited 4 days for gel to break then started swabbing.. Well started flowing after 4th pull of swab. Tested as follows:

3-28-59: 15 hr. test on 10/64" choke flowed 35 bbls PLO. TP-225#, CP-0
 3-29-59: 24 hr. test on 10/64" choke flowed 127 bbls PLO. TP-225#, CP-100#
 3-30-59: 24 hr. test on 10/64" choke flowed 124 bbls PLO. TP-225#, CP-600#, GOR-350
 3-31-59: 24 hrs test on 9/64" choke flowed 65 bbls PLO. TP-200#, CP-700#
 4-1-59: 24 hr. test on 10/64" choke flowed 103 bbls PLO. TP-600#, CP-1200#, GOR-485
 4-2-59: 24 hr. test on 10/64" choke flowed 92 bbls PLO. TP-850#, CP-1200#, GOR-1030
 4-3-59: 24 hr. test on 10/64" choke flowed 89 bbls PLO. TP-900#, CP-1200#
 4-4-59: 24 hr. test on 8/64" choke flowed 35 bbls PLO. TP-900#, CP-1200#
 4-5-59: 24 hr. test on 8/64" choke flowed 27 bbls PLO. TP-900#, CP-1200#

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **(Continued on Sheet #2)**

Address _____

By _____

Title _____

58 37



5792

Form 9-331 D
(April 1952)

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R359.4
Approval expires 12-31-60.

Indian Agency

Allottee

Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF REDRILLING OR REPAIR.....
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....
NOTICE OF INTENTION TO ABANDON WELL.....

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

April 9, 19 59

Navajo Tribe of Indians "E"

Well No. 1 is located _____ ft. from $\left[\begin{smallmatrix} N \\ S \end{smallmatrix} \right]$ line and _____ ft. from $\left[\begin{smallmatrix} E \\ W \end{smallmatrix} \right]$ line of sec. _____

_____ (1/4 Sec. and Sec. No.) _____ (Twp.) _____ (Range) _____ (Meridian)

_____ (Field) _____ (County or Subdivision) _____ (State or Territory)

The elevation of the derrick floor above sea level is _____ ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Continued from sheet #1

- 4-6-59: 24 hr. test flowing on 9/64" choke produced 49 bbls FLO. TP-900, CP-1200, GOR-5100
- 4-7-59: 24 hr. test flowing on 9/64" choke produced 59 bbls FLO. TP-1050, CP-1200, GOR-5250

Well shut in. First phase of workover in attempt to reduce GOR unsuccessful. Now preparing to move in rig, squeeze perforations in Upper Hermosa from 4594' to 4644' and re-perforate in lower in same zone.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

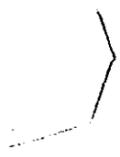
Company Humble Oil & Refining Company

Address Box 1268

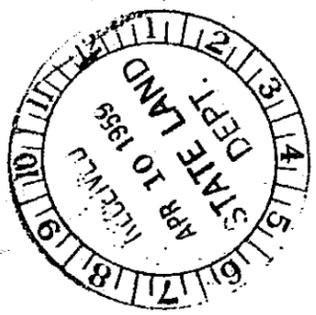
Farmington, New Mexico

By Russell H. Lilly
Title District Superintendent

58 ESD/ 37



4644
4594
50



5792



Form 9-331 b
(April 1952)

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R-359.3.
Approval expires 12-31-55.

Indian Agency Havajo

Allotted _____
Lease No. 11-20-603-412
o. #196914

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	<u>Report of Drill Stem Test</u>	<u>X</u>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Farmington, New Mexico Oct. 17, 1958

Havajo Tribe of Indians "R"

Well No. 1 is located 2910 ft. from N line and 1900 ft. from E line of sec. 10

<u>SW/4 of NE/4</u> <small>(1/4 Sec. and Sec. No.)</small>	<u>A1N</u> <small>(Twp.)</small>	<u>28E</u> <small>(Range)</small>	<u>O & 3R</u> <small>(Meridian)</small>
<u>East Boundary Butte</u> <small>(Field)</small>	<u>Apache</u> <small>(County or Subdivision)</small>	<u>Arizona</u> <small>(State or Territory)</small>	

The elevation of the derrick floor above sea level is 5499 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

9-7-58
Drill stem test No. 6 from 4885' to 4943' with 1" top and 5/8" bottom chokes. Tool open 1 1/2 hrs with fair blow throughout test. Recovered 20' drilling mud. Initial mud 2224#, min. flow 17#, max flow 17#, final mud 2209#. Build up after 30 mins. 316#.

9-9-58
Drill stem Test No. 7 from 4941' to 4987' with 1" top and 1/2" bottom chokes. Tool open 1 hr. with fair blow throughout test. Recovered 540' of highly gas out and slightly oil cut mud. Initial mud 2250#, min. flow 100, max. flow 250#, final mud 2200#. Build up after 30 mins. 1900#. Chloride in ditch 1500 PPM, in test 1700 PPM.

9-10-58
Drill stem test No. 8 from 4979' to 5024' with 1" top and 5/8" bottom chokes. Tool open 1 hr. with good blow throughout test. Rec. 130' fluid consisting of 120' sulphur water and oil cut drilling mud and 10' sulphur water. Initial mud 2200#, min. flow 20#, max. flow 50#, final mud 2150#. Build up after 30 mins. 1500#.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Humble Oil & Refining Company

Address Box 1268

Farmington,
New Mexico

By Russell W. Lilly

Title Agent

58 35

Form 9-331 b
(April 1952)

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R-359.2
Approval expires 12-31-55.

Indian Agency Navajo

Allottee _____

Lease No. 14-20-603-412
Co. #196914

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	<u>Report of Drill Stem Test</u>	<u>X</u>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Farmington, New Mexico Oct. 17, 19 58

Navajo Tribe of Indians "E"

Well No. 1 is located 2310 ft. from N line and 1980 ft. from E line of sec. 10

<u>SW/4 of NE/4</u> <small>(1/4 Sec. and Sec. No.)</small>	<u>41N</u> <small>(Twp.)</small>	<u>28E</u> <small>(Range)</small>	<u>G & SR</u> <small>(Meridian)</small>
<u>East Boundary Butte</u> <small>(Field)</small>	<u>Apache</u> <small>(County or Subdivision)</small>	<u>Arizona</u> <small>(State or Territory)</small>	

The elevation of the derrick floor above sea level is 5499 ft.

DETAILS OF WORK

9-11-58 state names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work.

Drill Stem Test No. 9 from 5070' to 5115' with 1" top and 5/8" bottom chokes. Tool open 1 1/2 hrs. with fair blow throughout test. Rec. 330' fluid composed of 90' mud and 240' gas cut sulphur water. Initial mud 2250#, min. flow 80, max. flow 175, final mud 2200#. Build up after 30 mins. 1600#.

9-12-58
Drill Stem Test No. 10 from 5118' to 5143' with 1" top and 5/8" bottom chokes. Tool open 1 1/2 hrs. Rec. 50' drilling mud and 2630' sulphur water. Initial mud 2300#, min. flow 200, max. flow 1100, final mud 2250#. Build up after 30 mins. 1600#. Chloride in ditch 1200 PPM, in test 3300 PPM.

9-13-58
Drill Stem Test No. 11 from 5144' to 5185' with 1" top and 5/8" bottom chokes. Tool open 1 1/2 hrs. Rec. 2300' fluid consisting of 1700' drilling mud and 610' gas cut sulphur water. In. mud 2250, min. flow 750, max. flow 1250, final mud 2250#. Build up after 30 mins., 1600#. Chl. in ditch 1200 PPM, in test 1500 PPM, Bottom hole temperature 110 degrees.

Company Humble Oil & Refining Company

Address Box 1268

Farmington
New Mexico

By Russell M. Lilly
Title Agent

58 30

Form 9-331 b
(April 1952)

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R-359.3
Approval expires 12-31-55.

Indian Agency Navajo

Allottee _____

Lease No. 11-20-603-432
Co. 196914

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	<u>Report of Drill Stem Test</u>	<u>X</u>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Farrington, New Mexico Oct. 17, 19 58

Navajo Tribe of Indians "E"

Well No. 1 is located 2310 ft. from N line and 1980 ft. from E line of sec. 10

SW/4 of NE/4 41N 26E G & SB
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

East Boundary Butte Apache Arizona
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5499 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

9-16-58
Drill Stem Test No. 12 from 5250' to 5305' with 1" top and 5/8" bottom chokes. Tool open 1 1/2 hrs. Gas to surface in 2 mins. flowing at est. rate of 58.9 MCF/day. Recovered 240' heavy oil & gas cut mud and 30' oil & gas cut sulphur water. Initial mud 2300, min. flow 100, max. flow 100, final mud 2250#. Build up after 30 mins. 1550#. Chl. in ditch 1000 PPM, in test 800 PPM.

9-17-58
Drill Stem Test No. 13 from 5339' to 5359' with 1" top and 5/8" bottom chokes. Tool open 1 1/2 hrs. Gas to surface in 3 minutes. Recovered 90' heavy oil and gas cut mud, 3630' heavy gas cut water. Initial mud 2400#, min. flow 900, max. flow 1500, final mud 2350#. Build up after 30 mins. 1700#. Chl. in ditch 1000 PPM, in test 4000 PPM.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Humble Oil & Refining Company

Address Box 1268

Farrington

New Mexico

By Russell M. Lilly

Title Agent

58

37

Form 9-331b
(April 1952)

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R-359.2.
Approval expires 12-31-55.

Indian Agency Navajo

Allottee _____

Lease No. 14-20-603-412
Co. 196914

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	<u>Report of Drill Stem Test</u>	<u>X</u>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Farmington, New Mexico Oct. 17, 1958

Navajo Tribe of Indians "E"

Well No. 1 is located 2310 ft. from N line and 1990 ft. from E line of sec. 10

SW/4 of NE/4 41N 28E G & SR
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

East Boundary Butte Apache Arizona
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5499 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

9-19-58

Drill Stem Test No. 14, with Straddle Packer, from 5029' to 5044' with 1" top and 5/8" bottom chokes. Tool open 1 hr. Fair blow decreasing to very weak after 1 hour. Recovered 1050' drilling mud, bottom 50' of which was sulphur cut. Initial mud 2250#, min. & max. flow 400, Mud final 2250. Build up after 30 mins. 1500#.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Humble Oil & Refining Company

Address Box 1268

Farmington

New Mexico

By Russell M. Lilly

Title Agent

58

38

Form 9-331b
(April 1952)

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R-359.2
Approval expires 12-31-55.

Indian Agency Navajo

Allottee _____

Lease No. 14-20-603-412

Co. 196914

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	<u>Report of Liner Setting</u>	<u>X</u>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Farmington, New Mexico Oct. 17, 1958

Navajo Tribe of Indians "E"

Well No. 1 is located 2310 ft. from N line and 1980 ft. from E line of sec. 10

SW/4 of NE/4 11N 28E G & SE
(4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
East Boundary Butte Apache Arizona
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5499 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

9-19-58
Ran 18 jts. of 3-1/2" OD 9.30# N-80 I-line Liner, total of 545'. Top of Liner at 4864', bottom of liner at 5409'. BOT hanger at 4866'. Cemented with 40 sacks regular cement. Plug on bottom 1:35 AM 9-20-58. Complete returns while cementing.

9-20-58 thru 9-24-58
Cleaned out hole to top of liner. Attempted temperature survey and found top of liner leaking. Re-cemented top of liner. WOU 18 hrs. and tested liner with 3000# pressure. Tested OK. Released Rotary Rig at 7:00 PM 9-24-58.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Humble Oil & Refining Company

Address Box 1268

Farmington

New Mexico

By Russell M. Lilly

Title Agent

58 39

Form 9-331 D
(April 1952)

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R-359.2
Approval expires 12-31-55.

Indian Agency Navajo

Allottee _____

Lease No. 14-20-603-412
Co. 196914

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	X
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Navajo Tribe of Indians "E" Farmington, New Mexico Oct. 17 19 58

Well No. 1 is located 2310 ft. from N line and 1980 ft. from E line of sec. 10

SW/4 of NE/4 41N 28E G & SR

(34 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

East Boundary Butte Apache Arizona

(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5499 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

9-27-58 thru 9-28-58
Cement was drilled out to 5375'. Ran logs and perforated with 2 jet shots per foot from 4726' to 4772'. Set tubing at 4760' with Sweet Packer at 4695'. Acidized with 500 gal. mud acid at 400#. Broke to 150# when acid hit formation. Well went on vacuum and swabbing was begun. Swabbed lead and acid water.

9-29-58
Acidized with 1000 gal. mud acid at 500#. Went on vacuum 3 mins. after job was complete. Swabbing was resumed. On 5 hrs. test, swabbed 12.5 bbls. fluid, 12 bbls. oil and .5 bbls. acid water.

10-2-58
Pulled tubing and packer. Ran Bridge Plug at 4655' and dumped Halliburton Hydramite on top of BP from 4655' to 4652'. Perf. 5 1/2" csg. with 2 jet shots per foot from 4594' to 4644'. Ran and set tubing at 4644' and Sweet Packer at 4579'. Swabbing was resumed.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Humble Oil & Refining Company

Address Box 1268

Farmington
New Mexico

By Russell M. Lilly
Title Agent

58 40

Form 9-331 b
(April 1952)

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R-369.2
Approval expires 12-31-53.

Indian Agency Navajo
Allottee _____
Lease No. 11-20-603-412
Co. 196914

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Farmington, New Mexico Oct. 17, 1958

Navajo Tribe of Indians "E"

Well No. 1 is located 2310 ft. from [N] line and 1980 ft. from [E] line of sec. 10

SW/4 of NE/4 41N 28E G & SR
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
East Boundary Butte Apache Arizona
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5499 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

10-1-58

On 9 hrs. swabbing test, produced 34 bbls. fluid, 31 bbls. oil and 3 bbls. water, SO 10%. Chl. content 600 PPM. GOR 630. Acidized with 1000 gal. mud acid from 4595' to 4644', at 900# breakdown pressure. Started to swab and well kicked off.

10-5-58

On 12 hr. flowing test, well produced 186 bbls. fluid, 180 bbls. oil and 6 bbls. water. SO 6% to 2% with well showing 2% final 6 hrs. On 20/64" choke. Corrected gravity 41.6, GOR 559. Completed as a producing oil well. Well shut in until disposition of oil can be made.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Humble Oil & Refining Company

Address Box 1268

Farmington

New Mexico

By Russell M. Lilly

Title Agent

Form 9-381 b
(April 1952)

Copy
(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R-359.2
Approval expires 12-31-55.

Indian Agency Navajo

Allottee _____

Lease No. 14-20-603-412

Co. #196914

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	<u>Report of Spudding</u>	<input checked="" type="checkbox"/>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Farmington, New Mexico, Aug. 19, 19 58

Navajo Tribe of Indians "E"

Well No. 1 is located 2310 ft. from [N] line and 1980 ft. from [E] line of sec. 10

SW/4 of NE/4 41N 28E G & SR
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

East Boundary Butte Apache Arizona
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5444 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded 12 1/4" hole at 10:00 PM 8-11-58. Set 8-5/8" casing at 1,015' w/300 sx 4% Gal and 150 sx Neat. Cement circulated. Tested casing w/1000# for 30 min. Test OK. Now drilling at 3030'.

Drilling Contractor: Rutledge Drilling Co.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Humble Oil & Refg. Co.

Address Box 1268

Farmington

New Mexico

COPY
By Russell M. Lilly
Russell M. Lilly
Title Agent

58 42

Form 9-331b
(April 1952)

Copy
(SUBMIT IN TRIPPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R-359.2
Approval expires 12-31-55.

Indian Agency Navajo

Allottee _____

Lease No. 14-20-603-412

Co. #196914

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	Report of Drill Stem Test	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Farmington, New Mexico, Aug. 26, 19 58

Navajo Tribe of Indians "E"

Well No. 1 is located 2310 ft. from N line and 1980 ft. from E line of sec. 10

SW/4 of NE/4 41N 28E G & SR
(4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

East Boundary Butte Apache Arizona
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5499 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Drill Stem Test No. 1 from 4204' to 4269' with 1" top and bottom Chokes. Tool open two hours. Strong Blow throughout test. Gas to surface in 34 minutes. Recovered 235' of slightly gas cut mud. Initial Mud 2123#; minimum flowing pressure 64#; maximum flowing pressure 96#; final mud 2092#. Build up after 30 minutes, 697#. Gas at rate of 20 MCF per day. Now drilling.

Drilling Contractor: Rutledge Drilling Co.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Humble Oil & Ref'g. Co.

Address Box 1268

Farmington

New Mexico

By Russell M. Lilly
Russell M. Lilly
Title Agent

58 43

Form 9-331b
(April 1952)

Copy
(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R-359.2
Approval expires 12-31-55.

Indian Agency Navajo

Allottee _____

Lease No. 14-20-603-412
Co. 196914

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	Report of Drill Stem Test	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Farmington, New Mexico, Aug. 29, 19 58

Navajo Tribe of Indians "E"

Well No. 1 is located 2310 ft. from N line and 1980 ft. from E line of sec. 10

SW/4 of NE/4 11N 28E G & SE
(4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

East Boundary Butte Apache Arizona
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5499 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Drill Stem Test No 2 from 4494' to 4556' with 1" Top & Bottom Chokes. Tool open One hour and 22 minutes. Strong blow throughout test. Recovered 1530' of fluid composed of 810' of heavily gas cut mud, 450' of heavily gas cut & slightly oil cut mud, and 270' of heavily gas cut mud. Initial mud 2145#, minimum flowing 64#, maximum 663#, final mud 2050#. Build up after 30 minutes, 1606#. Chloride in ditch and test 1200 PPM. Now drilling.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Humble Oil & Ref'g. Co.

Address Box 1268

Farmington

New Mexico

Copy

By Russell M. Lilly
Russell M. Lilly
Title Agent

58 44

Form 9-331b
(April 1952)

Copy
(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R-359.2
Approval expires 12-31-55.

Indian Agency Navajo

Allottee _____

Lease No. 14-20-603-412
Co. 196914

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	Report of Drill Stem Test	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Farmington, New Mexico Sept. 1, 19 58

Navajo Tribe of Indians "E"
Well No. 1 is located 2310 ft. from N line and 1980 ft. from E line of sec. 10

SW/4 of NE/4 41N 28E G & SE
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
East Boundary Butte Apache Arizona
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5499 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Drill Stem Test No 3 from 4600' to 4675' w/1" Top & Bottom Chokes. Tool open 3 hrs. Opened with strong blow. Gas to surface in 15 minutes. Heavy oil cut mud in 19 mins. Cleaned to pits & switched to tank. On 2 hr. gauged test, well produced 86.68 bbls. PLO. First hour 44.17 bbls., & 2nd. hr. 42.51 bbls. Closed tool. Reversed 23.34 bbls. from drill pipe. Total oil produced on test 118.37 bbls. Initial mud 2177#; initial flow 252#, max. flow 663#, final mud 2114#. Build up after 30 mins., 1417#. Corr. Gr. 42.5. GOR 615 cu. ft per bbl. Sweet Gas. No water. Drilled to 4776'.

Drill Stem Test No 4 from 4733' to 4776' w/1" top & bottom chokes. Tool open 2 hrs. & 19 mins. Good blow. Gas to surface in 8 mins. Recovered 2070' free oil & 30' very hvy oil cut mud. Initial mud 2240#, min. flowing 127#, max. flow 347#, final mud 2145#. Build up after 30 mins. 1480#. Drilling.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Humble Oil & Refining Company
Address Box 1268
Farmington
New Mexico
By Russell M. Lilly
Russell M. Lilly
Title Agent

58 45

Form 9-331b
(April 1952)

	X	

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R-355-3
Approval expires 12-31-55.

Indian Agency Navajo

Allottee _____

Lease No. 14-20-603-412
Co. #196914

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	X
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Farmington, New Mexico, Sept. 11, 19 58

Navajo Tribe of Indians "E"

Well No. 1 is located 2310 ft. from N line and 1980 ft. from E line of sec. 10

SW/4 of NE/4 41N 28E G & SR
(4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
East Boundary Butte Apache Arizona
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5499 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

9-3-58

Ran 119 jts. 5 1/2" casing, 14#, 4879' set @ 4893'. Two stage collar set @ 4126'. Cemented 1st. stage with 200 sx Neat cement. Rotated pipe. Lost complete returns while cementing. Ran Temp. survey & found top of cement at 4680'. Attempted to perforate 5 1/2" casing with 2 Jet shots at 4680'. Unable to break circulation with 2450#. Perforated 5 1/2" casing with 2 Jet shots at 4660'. Broke circulation. Cemented 2nd. stage with 130 sx Neat cement. Complete returns throughout 2nd. stage.

9-5-58

Drilled plug and cement from 3977' to 4037'. Tested perforations w/1500# CWP. Test OK. Drilled cement & plug from 4600' to 4680'. Tested perforations w/1500# CWP & tested OK. Drilled float collar at 4838'. Drilling.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Humble Oil & Refining Company

Address Box 1268

Farmington

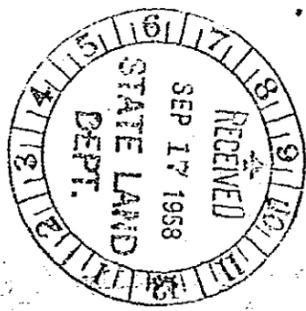
New Mexico

By Russell M. Lilly
Russell M. Lilly

Title Agent

58 46

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on file

STATE LAND DEPARTMENT
STATE OF ARIZONA

Form O&G 63

Form Prescribed Under Oil and Gas Conservation Act of 1951

NAVAJO TRIBE "E" WELL NO. 1 REPORT ON TEST OF WATER SHUT-OFF
(Formation Tester)

Operator Humble Oil & Refining Company, Box 1268, Farmington, New Mexico - 9/15/58
Well No. 1 Sec. 10 T. 41-N R. 28-E, G & SR B. & M.
East Boundary Butte Field, in Apache County, was tested for water shut-off on
Sept. 5, 1958. Mr. E. D. Wolcott designated by the supervisor,
was ~~present~~ (strike one) present as prescribed in Statewide Rule 11, there were also
present Mr. Melton Lawrence, Driller and Mr. E. R. Horton, Toolpusher, of
Rutledge Drilling Company
Shut-off data: 5 1/2 in. 14 lb. casing was cemented at 4893 ft. on 9/3/1958
in 7-7/8" hole with 330 sacks of cement of which _____ sacks were left in
casing. Casing record of well: 8-5/8" at 1015', 5-1/2" at 4893'.

Reported total depth 4893 ft. Bridged with cement from 4893 ft. to 1005 ft.
Cleaned out to 4680 ft. for this test. A pressure of 1500 lb. was applied to
the inside of casing for 30 min. without loss after cleaning out to 4680 ft.
~~A _____ tester was run into the hole on _____ in. drill pipe, with _____ ft.~~
~~of water cushion, and packer set at _____ ft. with tailpiece to _____ ft.~~
Tester valve, with _____ bean, was opened at _____ and remained open for
hr. and _____ min. During this interval _____

Note: Lined out portions not applicable.

REPORT ON TEST OF WATER SHUT-OFF
(Bailing)

Operator _____
Well No. _____ Sec. _____ T. _____ R. _____, _____ B&M.
_____ Field, in _____ County, was tested for water shut off
on _____, 19____. Mr. _____, designated by the super-
visor, was not (strike one) present as prescribed in Statewide Rule 11, there were
also present _____

Shut-off data: _____ in. _____ lb. casing was cemented at _____ ft. on _____ 19____
in _____ hole with _____ sacks of cement of which _____ sacks were left in
casing. Casing record of well: _____

Reported total depth _____ ft. Bridged with cement from _____ ft. to _____ ft.
Cleaned out to _____ ft. for this test. Casing test data: _____

APPROVED BY: _____
State Land Commissioner

DATE: _____

Faint, illegible text, possibly a header or introductory paragraph.

Main body of faint, illegible text, appearing to be several paragraphs of a letter or report.



140-47

Form Prescribed Under Oil and Gas Conservation Act of 1951
REPORT ON TEST OF WATER SHUT-OFF

Navajo Tribe of Indians "E" Well #1 (Formation Tester)

Operator Humble Oil & Ref'g. Co., Box 1268, Farmington, New Mexico, 9-3-58.
Well No. 1, Sec. 10, T. 41N, R. 28E, G & SR B. & M.
East Boundary Butte Field, in Apache County, was tested for water shut-off
on Aug. 13, 1958. Mr. E.D. Wolcott, designated by the supervisor,
was

~~was not~~ (strike one) present as prescribed in Statewide Rule 11, there were
also present Messers. J. W. Morris, Driller, and E. R. Horton, Toolpusher
of Rutledge Drilling Co.

Shut-off data: 8-5/8" casing was cemented at 1015' on 8-13 1958
in 12 1/2" hole with 300 sacks of cement of which 16 sacks were left in casing. Circulated
Casing record of well: 8-5/8" 24# 8R R3 EW ST&C Casing, 999.78' set 100 sx ex-
at 1015.23', 26 its. Footage (999.78') includes 1.10' Guide shoe & 2.85' cess.
Float Collar.

Reported total depth 1020 ft. Bridged with cement from 1020 ft. to 0 ft.
Cleaned out to 980 ft. for this test. A pressure of 1000 lb. was applied
to the inside of casing for 30 min. without loss after cleaning out to
1020 ft. A tester was run into the hole on in drill pipe,
with ft. of water cushion, and packer set at ft. with tailpiece to
ft. Tester valve, with bean, was opened at and remained
open for hr. and min. During this interval

Note: Lined out portions not applicable.

REPORT ON TEST OF WATER SHUT-OFF
(Bailing)

Operator Not Applicable.
Well No. , Sec. , T. , R. , B. & M.
 Field, in County, was tested for water shut-off
on , 19. Mr. , designated by the supervisor,
was
was not (strike one) present as prescribed in Statewide Rule 11, there were
also present

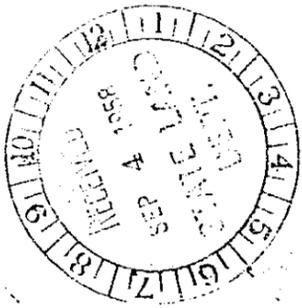
Shut-off data: in. lb. casing was cemented at ft. on , 19
in hole with sacks of cement of which sacks were left in casing.
Casing record of well:

Reported total depth ft. Bridged with cement from ft. to ft.
Cleaned out to ft. for this test. Casing test data:

APPROVED BY:
CommissionerDATE:

See instructions on back side of form.

50



1958

POSTAGE
- 5 x 10

RECEIVED
 SEP 4 1958
 CHICAGO, ILL.
 10:10

[Faint, mostly illegible text follows, possibly including recipient and sender information.]

[Faint, illegible text at the bottom of the page, possibly a return address or additional notes.]



Hunt Co

STATE OF ARIZONA

Form ~~2~~ 51

Form Prescribed Under Oil and Gas Conservation Act of 1951

NOTICE OF INTENTION TO DRILL NEW WELL

This notice and surety bond must be filed and permit must be granted before drilling begins

Midland, Texas ~~Ariz.~~ July 31, 19 58

State Land Commissioner

In compliance with Statewide Rule 3, notice is hereby given that it is our intention to commence the work of drilling well No. _____ Sec. _____,

T. 41-N, R. 28-E, G&SR B. & M., East Boundary Butte Field, Apache County.

Legal description of lease T-41-N R-28-E G&SR M
(Attach map or plat to scale)

Sections 9, 10, 15, & 16 T-41-N, R-28-E, G & SR M

Location of Well: 2310' from North line and 1980' from East line of Section 10
(Give exact footage from section corners or other legal

subdivision or streets)
Proposed drilling depth 7000 feet. Acres in drilling unit 640. Has

surety bond been filed? yes. Is location a regular or exception to spacing rule? Regular.

Elevation of ground above sea level later feet. 5500+
To be furnished

All depth measurements taken from top of Kelly Drive Bushing
approximately (Derrick Floor, Rotary Table or Kelly Bushing) which is 12 feet above ground.

PROPOSED CASING PROGRAM

Size of Casing Inches A.P.I.	Weight	Grade and Type	Top	Bottom	Cementing Depths
8-5/8"	24#	T-55 seamless	surface	1000'	1000' to surface
5-1/2"	14, 15.5 & 17#	J-55 seamless	surface	7000'	7000' or btm of surface casing

Intended Zone or Zones of completion:
Name Mississippian Perforated Interval

AFFIDAVIT:
I B. P. Guyton, being first duly sworn on oath, state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

Name B. P. Guyton Title Asst. Division Chief Clerk
Subscribed and sworn to before me this 31 day of July 19 58

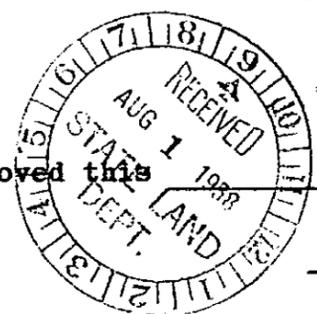
Betty Ann Weathers
Notary Public, County of Midland State Texas

Permit No. 58
Act of Commissioner
Approved _____
Date _____

BETTY ANN WEATHERS-NOTARY PUBLIC
MY COMMISSION EXPIRES JUNE 1, 1959.

Application approved this 28th day of August 1958

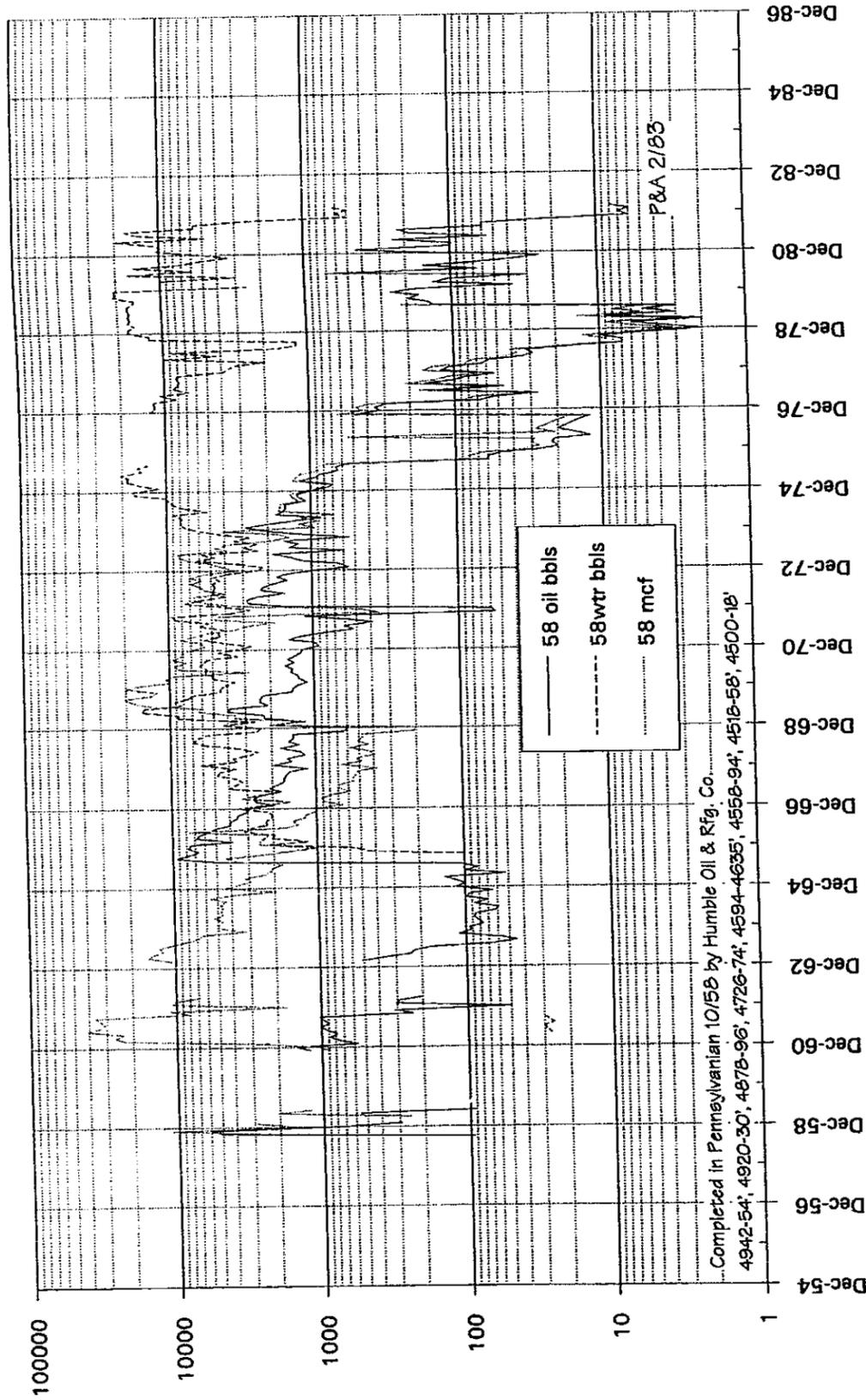
58 OK PWJ



Obed T. Larsen
State Land Commissioner

MONTHLY PRODUCTION AT 1 NAVAJO-E (58), ARIZONA: SEP 1958 - JUN 1982

sw ne 10-41n-28e, East Boundary Butte Field, Apache County



MERRION OIL & GAS CORPORATION

610 REILLY AVE. • P. O. BOX 840
FARMINGTON, NEW MEXICO 87499

RECEIVED PH. 505-327-9801

NOV 24 1986

O & G CONS. COMM.

November 20, 1986

Arizona Oil & Gas Conservation Commission
3110 N. 19th Avenue, Suite 190
Phoenix, Arizona 85007

Attention: Rudy Ybarra

Re: Well Status
East Boundary Butte
Apache Co., Arizona

Dear Mr. Ybarra:

Enclosed please find the "Notice of Intent to" and "Subsequent Report of" sundry notices for the plugging and abandonment of the Navajo 23-11 and the Navajo 2-11. Both wells are located in Section 11, T41N, R28E in Apache Co., Arizona.

The following is a list of the status of the wells which Merrion Oil and Gas operates in the East Boundary Butte Field, Apache Co., Arizona:

LEASE	WELL NAME	STATUS
14-20-603-226	Navajo No. 2 22 ✓	SI Gas Well
	Navajo No. 2-13 481	P & A
	Navajo No. 3-3 514	SI
	Navajo No. 3-11 490	SI
14-20-603-227	Navajo No. 2-11 518	P & A
	Navajo No. 23-11 491	P & A
14-20-603-412	Navajo No. E-58 ✓	P & A
14-20-603-413	Navajo No. 128	Pumping Oil Well
	Navajo No. 3512 ✓	Salt Water Disposal

al sd 2/Nov 20/86

If you need any additional information, please advise.

Respectfully yours,

MERRION OIL & GAS CORPORATION

T. Gregory Merrion

T. Gregory Merrion, Production Engineer

TGM/am

Enc.



Oil and Gas Conservation Commission

STATE OF ARIZONA
3110 N. 19th AVENUE, SUITE 190
PHOENIX, ARIZONA 85015
PHONE: (602) 255-5161

November 25, 1986

Merrion Oil & Gas Corporation
P. O. Box 840
Farmington, NM 87499

Attention: T. Gregory Merrion

Dear Mr. Merrion:

Thank you for the well-status list of wells in East Boundary Butte field, Apache County.

We need data on one other well and that will bring us up to date in East Boundary Butte. The well in question is No. E-1 Navajo in Sec. 10, 41N, 28E. We received an application to plug and abandon this well in April, 1983, but we never did receive the plugging record. Please fill out the enclosed Form No. 10 and return it to this office.

Try to keep us informed on any further proposed well operations in Arizona.

Very truly yours,

R. A. Ybarra
R. A. Ybarra
Enforcement Director

Encl.
lr

MERRION OIL & GAS CORPORATION

610 REILLY AVE. • P. O. Box 840
FARMINGTON, NEW MEXICO 87499

RECEIVED PH. 505-327-9801

NOV 24 1986

O & G CONS. COMM.

November 20, 1986

Arizona Oil & Gas Conservation Commission
3110 N. 19th Avenue, Suite 190
Phoenix, Arizona 85007

Attention: Rudy Ybarra

Re: Well Status
East Boundary Butte
Apache Co., Arizona

Dear Mr. Ybarra:

Enclosed please find the "Notice of Intent to" and "Subsequent Report of" sundry notices for the plugging and abandonment of the Navajo 23-11 and the Navajo 2-11. Both wells are located in Section 11, T41N, R28E in Apache Co., Arizona.

The following is a list of the status of the wells which Merrion Oil and Gas operates in the East Boundary Butte Field, Apache Co., Arizona:

LEASE	WELL NAME	STATUS
14-20-603-226	Navajo No. 2	SI Gas Well
	Navajo No. 2-13	P & A
	Navajo No. 3-3	SI
	Navajo No. 3-11	SI
14-20-603-227	Navajo No. 2-11	P & A
	Navajo No. 23-11	P & A
14-20-603-412	Navajo No. E-1	P & A
14-20-603-413	Navajo No. 1	Pumping Oil Well
	Navajo No. 3	Salt Water Disposal

If you need any additional information, please advise.

Respectfully yours,

MERRION OIL & GAS CORPORATION

T. Gregory Merrion

T. Gregory Merrion, Production Engineer

TGM/am

Enc.



OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA

1645 WEST JEFFERSON, SUITE 420

PHOENIX, ARIZONA 85007

PHONE: (602) 271-5161

April 22, 1983

Mr. J. Gregory Merrion, President
Merrion Oil & Gas Corporation
P. O. Box 1017
Farmington, New Mexico 87401

Re: Humble Oil & Refining
Well No. 1 Nav-E
East Boundary Butte Field
Apache County, Arizona

Dear Mr. Merrion:

I note in the Monthly Producers Report for March, 1983, that the above captioned well was plugged and abandoned.

Please be reminded that proposed abandonment work for all wells drilled in Arizona must be filed with the Oil and Gas Conservation Commission for evaluation and approval or disapproval. This requirement is set forth in Rule 12-7-126(B), which reads in part: "Before any work is commenced to abandon any well...the owner or operator thereof shall, prior to the beginning of operations of plugging the well, give written notice...to abandon such well."

To ensure that we have a complete well history on this operation, please complete the enclosed forms and return to this office. I trust that in the future you will not overlook filing these forms before the abandonment work is performed. Your cooperation is appreciated.

Please call me if you have any further questions.

Sincerely,

R. A. Ybarra
R. A. Ybarra
Enforcement Director

RAY:bg
Enclosures

#58

*See file for
on report to state
re: 12-7-126(B)*

GAS-OIL RATIO TEST REPORTS

Filed under GAS-OIL RATIO TESTS REPORTS, EAST BOUNDARY BUTTE FIELD,
in cabinet in office of Enforcement Director

HUMBLE NAVAJO E #1

September 2, 1958 - Telephone

Jim Wiseley, office manager, Farmington called 10:00 A.M. and put Russell Lilly, Drilling Supt. on phone. Report as follows:

A 3 hour drill stem test (Number 3) was run August 30th open to interval 4600-4675'. (Hermosa limestone) Gas to surface in 15 minutes; oil cut mud in 19 minutes; Formation pressure, 2177#; Initial flow pressure 252#; Maximum flow pressure 663#; Final mud 2114#; formation build up in 30 minutes 1417#; gravity 42.5°; gas-oil ratio 615; crude sweet, no water.

A 2 hour and 19 minute drill stem test (Number 4) was run over the week-end open to the interval 4733-4776'. Gas to surface 8 min; 2070' free oil; 30' heavy oil cut mud; Formation pressure 2240#; Initial flow pressure 127#; Maximum flow pressure 347#; Final formation pressure 2145#; build up in 30 minutes 1480#;

September 3, 1958 - Telephone

A 2 hour drill stem test (Number 5) was run, apparently on 8/2/58, open to interval 4865 - 4893. (Paradox top called at 4850). Test was through 1" choke top and bottom. Gas with sulphur odor to surface in ½ minute. Initial mud 2240#; Initial flow 505#; Final flow 364#; final mud 2240#; 30 minute build up 1480#; recovered 10' black heavily gas cut mud with sulphur odor. Gas is probably sour. 2840 MCF/Day

September 4, 1958 - Telephone

5½ inch casing set (to protect upper zones) (probably 8/3/58) to TD 4893. Two stage collar set at 4126'. First cementing was 200 sax neat cement; lost complete returns; temperature survey showed top of cement at 4680'. Attempt to perforate at 4680', were unable to break circulation; a jet shot at 4660' broke circulation. Second cementing of 130 sax of cement got complete returns. Awaiting more cement.

Oil produced on 8/30/58 amount to 118.37 bbl. Wiseley requested they be given verbal ok to empty tank. Ok given. Oil was hauled by Mack Wood on 9/3/58.

SCHLUMBERGER WELL SURVEYING CORPORATION

"Electrical Well Logging"

HOUSTON, TEXAS

PLEASE REPLY TO
SCHLUMBERGER WELL SURVEYING CORP.
P.O. BOX 995
FARMINGTON, NEW MEXICO

Mr. Russel Lilly
Humble Oil & Refining Company
Production Department
Box 1268, Farmington, New Mexico

DATE 9-10-58

Attn: Mr. Lilly

Dear Sir:

We thank you for your business and hope you will contact us on either service or interpretation. Enclosed are 1 prints of the 3 Temperature surveys on: Company Humble Oil & Refining Co., Well Navajo E #1, County Apache, State Arizona, Field E. Boundary Butte

Additional prints are being sent to:

1 prints
H. L. Beckman
Box 1600
Midland, Texas

0

2 prints
W. G. Mc Campbell
Box 1287
Roswell, New Mexico

2 prints
District Production Geologist
Humble Oil & Refining Co.
Box 1268
Farmington, New Mexico

1 prints
T. A. Huber
Box 2180
Houston 1, Texas

2 prints
Phillip W. Johnson, Geologist
136 N. Park Avenue
Tucson, Arizona

2 prints
State Land Department
State of Arizona
Phoenix, Arizona

Attn: Mr. F. C. Ryan

The film is Mr. Beckman in Midland, Texas

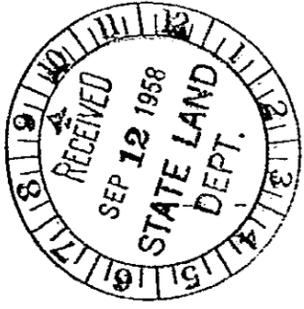
We are looking forward to serving you on your next well.

Very truly yours,

SCHLUMBERGER WELL SURVEYING CORP.

L. Miller
District Manager

13877



RECEIVED

NOV 23 1981

O & G CONS. COMM.

AKS
RAY
DS

NOTICE

Effective October 1, 1981 the operating entity known as Merrion and Bayless will cease to exist. Operations will thereafter be carried on as Merrion Oil & Gas Corporation. Offices will continue at 205 Petroleum Center Bldg. Farmington, New Mexico. The new mailing address will be P.O. Box 1017, Farmington, New Mexico. The phone number remains (505) 325-5093.

515 (also 22, 28, 58)

February 5, 1976

Mr. J. Gregory Merrion
Merrion & Bayless
P. O. Box 1541
Petroleum Club Plaza
Farmington, NM 87401

RE: U. S. Fidelity & Guaranty Company
Surety Bond #01-0130-972-74

Dear Greg:

Back on October 23, 1974, you requested your surety, USF&G, to notify you of their acceptance of the wells that you had recently taken over from Consolidated Oil & Gas. A check of our files indicates that USF&G never responded to your request.

We have received a request for cancellation of a bond that technically still covers some wells that you as operator have also covered under the above referenced bond. Before, we can comply with the request for the release of this bond, we must have a written statement from USF&G assuming bonding responsibilities of these wells.

Will you please have USF&G write this Commission agreeing to assume bonding responsibilities for all the wells that you operate in this state. The reason that this acknowledgement from USF&G is necessary is because this blanket bond states, "any and all oil and gas wells drilled within the state of Arizona". Our opinion is that legally USF&G could claim that only wells actually drilled by you were covered under Bond #01-0130-972-74.

We will appreciate your cooperation in this matter.

Sincerely,

W. E. Allen, Director
Enforcement Section

WEA/sl

3

June 25, 1975

Mr. J. Gregory Merrion
Merrion & Bayless
P. O. Box 1541
Farmington, New Mexico 87401

RE: Humble Oil Navajo #1 Sec 4-T41N-R28E Apache Co., File #28	Humble Navajo #E-1 Sec 10-T41N-28E Apache Co., File #58	Humble #e Navajo Sec 4-T41N-R28E Apache Co., File #515
---	---	--

Dear Greg:

On April 7, 1975, we sent you a reminder that the semi-annual GOR tests on the above referenced wells were due. As of this date, we have not received these reports.

Greg, if taking these semi-annual GOR tests are an undue burden on your people, write me a letter stating your reasons for not wishing to continue taking these tests and I will endeavor to have your wells exempt from semi-annual testing.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/si

April 7, 1975

Mr. J. Gregory Merrion
Merrion & Bayless
P. O. Box 1541
Farmington, New Mexico 87401

Re: Humble Oil Navajo #1 Humble Navajo #E-1 Humble #3 Navajo
 Sec 4-T41N-R28E Sec 10-T41N-R28E Sec 4-T41N-R28E
 Apache Co., File #28 Apache Co., File #58 Apache Co., File #515

Dear Mr. Merrion:

This is just a reminder that the March Gas-Oil-Ratio Tests on the above referenced wells are due this month.

Also please note the attached address change effective April 15, 1975.

Very truly yours,

Mrs. Rhema Brandt
Secretary to W. E. Allen
Director, Enforcement Section

/rlb

Enc.



OFFICE OF
Oil and Gas Conservation Commission

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

February 7, 1975

Mr. Robert L. Bayless
Petroleum Club Plaza Building
P. O. Box 1541
Farmington, New Mexico 87401

Re: East Boundary Butte Commingling

We fully concur with Mr. G. R. Daniel's letter of December 26, granting permission to commingle at the surface of production in the Dineh-bi-Keyah Field. As you have mentioned, it will be necessary to meter the produced gas at each well and monthly production tests will be adequate to determine the oil production from each lease.

You mentioned that your plans are to convert the Consolidated No. 3-11 well, Permit No. 490, into a water disposal well. It will be necessary that you receive permission from this Commission prior to this conversion.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

Robert L. Bayless

PETROLEUM CLUB PLAZA BUILDING
P. O. BOX 1541
FARMINGTON, NEW MEXICO 87401

February 4, 1975

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

ATTENTION: Mr. W. E. Allen
Director

Re: East Boundary Butte Commingling

Dear Bill:

Enclosed please find a copy of our letter of October 21, 1974 requesting approval from the United States Geological Survey to commingle production from four Navajo leases and the reasoning behind the request. Also enclosed is a copy of the United States Geological Survey reply approving this request subject to approval by your Commission.

Please consider this a request to commingle the oil and gas produced as set forth in the letter of October 21, 1974.

Yours truly,

MERRION & BAYLESS


Robert L. Bayless

RLB/su

Enclosures: Letter to U.S.G.S. dated October 21, 1974
Letter from U.S.G.S. dated December 26, 1974

RECEIVED

FEB 11 1975

O & G CON. COMM.

October 21, 1974

United States Geological Survey
P.O. Box 959
Farmington, New Mexico 87401

ATTENTION: Mr. Phil McGrath

Re: Request for Permission to Co-
mingle Production from Four
Navajo Leases, East Boundary
Butte Field, Apache County, Arizona.

Gentlemen:

We have heretofore operated the Navajo (14-20-603-413) and Navajo E (14-20-603-412) leases in Apache County, Arizona with production going to parallel tank batteries at a location in the SW/4 of the NW/4 Section 10, T41N, R26E.

We have recently acquired the Consolidated Oil & Gas properties on Navajo leases 14-20-603-226 and 14-20-603-227.

With five wells currently producible, there is a necessity for four tank batteries; each with a great amount of equipment.

Operating costs in this field have been extremely high due to:

1. The necessity to lift large quantities of water to produce either gas or oil.
2. Water disposal expense.
3. Scale and corrosion of flow lines and heater treaters.
4. High gathering and compression costs of natural gas produced.

The continued production from the field depends upon streamlining the operation and getting a better price for the gas. We have negotiated a better gas price and provided we can get FPC approval, we would like to re-vamp the flow line, compressor and tank battery facilities as per the attached plat.

RECEIVED

FEB 06 1975

O & G OHS. COMM.

United States Geological Survey
October 21, 1974
Page 2

Under this plan we can utilize existing flow lines to the maximum extent, and by adding a small amount of additional flow line, we can separately gather gas and fluid in separate lines. Hopefully, we can back pressure against the wells, eliminate flow line turbulence thus reducing scale and paraffin problems and increase compressor suction pressure thus reducing horsepower requirements.

The new tank battery will be located in the NE/4 of the SW/4 of Section 3 (near the old Consolidated 3-11 well, which will be converted to disposal). A new compressor site will be erected in the SW/4 of Section 2 replacing the two existing sites.

Oil-gas separators will be installed at each well and gas will be metered before comingling. Oil will be accounted for by monthly tests of each well.

We would appreciate your consideration and approval of this plan.

Yours very truly,

MERRION & BAYLESS

By _____
J. GREGORY MERRION

JGM/su

Enclosure



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

December 26, 1974

Mr. J. Gregory Merrion
P. O. Box 507
Farmington, New Mexico 87401

*Approval to
Comingle EBB*

Dear Mr. Merrion:

Your letter of October 21, 1974 requests approval to commingle production on leases 14-20-603-412, -413, -226, and -227 located in secs. 1, 2, 3, 4, 10, 11, 12, 13, 14, 15 and 16, T. 41 N., R. 28 E., East Boundary Butte field, Apache County, Arizona.

As set forth in your request, the expense of operating the field does not justify the duplication of equipment and its maintenance. One tank battery would be located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 3, T. 41 N., R. 28 E., and one compressor set in the SW $\frac{1}{4}$ sec. 2. One oil-gas separator would be set at each well where gas would be metered separately and oil volumes would be allocated back to each well based on monthly tests of each well. The working interest and royalty interest on the four leases are identical.

The method of commingling production is hereby approved subject to like approval by the Arizona Oil and Gas Commission. Any change in this system must receive prior approval from this office. Form 9-361-A, "Lessee's Monthly Report of Sales and Royalty", must show all computations used in oil production allocated to each well.

You are requested to notify the Farmington office when the installation has been completed so that a field inspection can be made.

Sincerely yours,

G. R. DANIELS
Acting Area Oil and Gas Supervisor

December 16, 1974

Mr. J. Gregory Merrion
Merrion & Bayless
P. O. Box 1541
Farmington, New Mexico 87401

Re: Humble Oil Navajo #1 Humble Navajo #E-1 Humble #3 Navajo
 NE/SE Sec 4-T41N-R28E SW/NE Sec 10-41N-28E SW/SK Sec 4-41N-28E
 Apache County, File #28 Apache County, File #58 Apache Co., File #515

Dear Mr. Merrion:

Please refer to our letter of November 4, 1974, where we requested that your office submit the Gas-Oil Ratio Test that was due in September.

As of this date we have not received a reply from you. Please submit this report as soon as possible.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

Enc.



OFFICE OF
Oil and Gas Conservation Commission

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

November 7, 1974

Mr. Gordon Woods
Woods Insurance Company
115 East Main Street
Farmington, New Mexico 87401

Dear Mr. Woods:

Merrion & Bayless have furnished this Commission with a blanket bond, No. 010130-972-74 in the amount of \$25,000 which covers their oil and gas operations within the State of Arizona. Mr. Merrion has requested that this Commission authorize the cancellation of the four \$5,000 single well bonds that had previously covered their operations within the state.

This letter is your authority to cancel the above mentioned single well bonds, copies of which are enclosed.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

cc Merrion & Bayless

Encs.

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS

Bond Serial No. _____

That we: Robert L. Bayless and J. Gregory Merrion

of the County of San Juan in the State of New Mexico

as principal, and United States Fidelity and Guaranty Company

of Baltimore, Maryland

AUTHORIZED TO DO BUSINESS WITHIN the State of Arizona.

as surety, are held and firmly bound unto the State of Arizona and the Oil and Gas Conservation Commission, hereinafter referred to as the "Commission", in the penal sum of Five thousand and No/100- - - - - (\$5,000.00) lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The conditions of this obligation are that, whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State, to-wit:
Humble Navajo #1-E - SW 1/4 NE 1/4 Section 10, Twp. 41 N., R. 28 E., Apache County, Arizona
File No. 58

(May be used as blanket bond or for single well)

NOW, THEREFORE, if the above bounden principal shall comply with all the provisions of the Laws of this State and the rules, regulations and orders of the Commission, especially with reference to the requirements of A.R.S. §27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil and Gas Conservation Commission all notices and records required by said Commission, then in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, this obligation is void; otherwise it shall remain in full force and effect.

Whenever the principal shall be, and declared by the Oil and Gas Conservation Commission in violation of the Laws of this State and the rules, regulations and orders of the Commission, the surety shall promptly:

1. Remedy the violation by its own efforts, or
2. Obtain a bid or bids for submission to the Commission to remedy the violation, and upon determination by the Commission and the Surety of the lowest responsible bidder, arrange for a contract between such bidder and the Commission, and make available as work progresses sufficient funds to pay the cost of remedying the violation; but not exceeding, including other costs and damages for which the surety may be liable hereunder, the amount set forth in the first paragraph hereof.

Liability under this bond may not be terminated without written permission of this Commission.

DATE 11-7-74 WITNESS our hands and seals, this 14th day of August, 19 70

Robert L. Bayless
J. Gregory Merrion
Principal

WITNESS our hands and seals this 14th day of August, 19 70

UNITED STATES FIDELITY AND GUARANTY COMPANY
Surety

By Herold G. Woods
Attorney-in-fact

Countersigned: W. W. Redout
Surety, Resident Arizona Agent
If issued in a state other than Arizona)

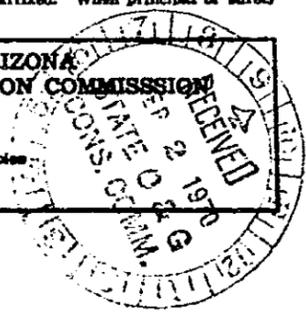
If the principal is a corporation, the bond should be executed by its duly authorized officers, with the seal of the corporation affixed. When principal or surety executes this bond by agent, power of attorney or other evidence of authority must accompany the bond.)

Approved: John Kanaster
Date: 9-4-70
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By: _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Bond
File Two Copies
Form No. 2

Permit No. 59

CANCELLED
11-7-74



(CERTIFIED COPY)

GENERAL POWER OF ATTORNEY

No. 74300

Know all Men by these Presents:

That UNITED STATES FIDELITY AND GUARANTY COMPANY, a corporation organized and existing under the laws of the State of Maryland, and having its principal office at the City of Baltimore, in the State of Maryland, does hereby constitute and appoint

Gordon G. Woods and/or H. C. Dickinson

of the City of Farmington, State of New Mexico, its true and lawful attorneys in and for the State of New Mexico

for the following purposes, to wit:

To sign its name as surety to, and to execute, seal and acknowledge any and all bonds, and to respectively do and perform any and all acts and things set forth in the resolution of the Board of Directors of the said UNITED STATES FIDELITY AND GUARANTY COMPANY, a certified copy of which is hereto annexed and made a part of this Power of Attorney; and the said UNITED STATES FIDELITY AND GUARANTY COMPANY, through us, its Board of Directors, hereby ratifies and confirms all and whatsoever that either the said Gordon G. Woods or the said H. C. Dickinson

may lawfully do in the premises by virtue of these presents.

In Witness Whereof, the said UNITED STATES FIDELITY AND GUARANTY COMPANY has caused this instrument to be sealed with its corporate seal, duly attested by the signatures of its Vice-President and Assistant Secretary, this 4th day of October, A. D. 1961

CANCELLED (SEAL)

UNITED STATES FIDELITY AND GUARANTY COMPANY.

By E. G. Hundley Vice-President.

E. W. Buffington Assistant Secretary.

DATE 11-7-74 STATE OF MARYLAND, BALTIMORE CITY, ss:

On this 4th day of October, A. D. 1961, before me personally came E. G. Hundley, Vice-President of the UNITED STATES FIDELITY AND GUARANTY COMPANY and E. W. Buffington, Assistant Secretary of said Company, with both of whom I am personally acquainted, who being by me severally duly sworn, said that they resided in the City of Baltimore, Maryland; that they, the said E. G. Hundley and E. W. Buffington were respectively the Vice-President and the Assistant Secretary of the said UNITED STATES FIDELITY AND GUARANTY COMPANY, the corporation described in and which executed the foregoing Power of Attorney; that they each knew the seal of said corporation; that the seal affixed to said Power of Attorney was such corporate seal, that it was so fixed by order of the Board of Directors of said corporation, and that they signed their names thereto by like order as Vice-President and Assistant Secretary, respectively, of the Company. My commission expires the first Monday in May, A. D. 1963.

(SEAL) (Signed) Anne M. O'Brien Notary Public.

STATE OF MARYLAND } Baltimore City, Ct.

I, James F. Carney, Clerk of the Superior Court of Baltimore City, which Court is a Court of Record, and has a seal, do hereby certify that Anne M. O'Brien, Esquire, before whom the annexed affidavits were made, and who has thereto subscribed his name, was at the time of so doing a Notary Public of the State of Maryland, in and for the City of Baltimore, duly commissioned and sworn and authorized by law to administer oaths and take acknowledgments, or proof of deeds to be recorded therein. I further certify that I am acquainted with the handwriting of the said Notary, and verily believe the signature to be his genuine signature.

In Testimony Whereof, I hereto set my hand and affix the seal of the Superior Court of Baltimore City, the same being a Court of Record, this 4th day of October, A. D. 1961 (SEAL) (Signed) James F. Carney Clerk of the Superior Court of Baltimore City.

COPY OF RESOLUTION

That Whereas, it is necessary for the effectual transaction of business that this Company appoint agents and attorneys with power and authority to act for it and in its name in States other than Maryland, and in the Territories of the United States and in the Provinces of the Dominion of Canada and in the Colony of Newfoundland.

Therefore, be it Resolved, that this Company do, and it hereby does, authorize and empower its President or either of its Vice-Presidents in conjunction with its Secretary or one of its Assistant Secretaries, under its corporate seal, to appoint any person or persons as attorney or attorneys-in-fact, or agent or agents of said Company, in its name and as its act, to execute and deliver any and all contracts guaranteeing the fidelity of persons holding positions of public or private trust, guaranteeing the performances of contracts other than insurance policies and executing or guaranteeing bonds and undertakings, required or permitted in all actions or proceedings, or by law allowed, and

Also, in its name and as its attorney or attorneys-in-fact, or agent or agents to execute and guarantee the conditions of any and all bonds, recognizances, obligations, stipulations, undertakings or anything in the nature of either of the same, which are or may by law, municipal or otherwise, or by any Statute of the United States or of any State or Territory of the United States or of the Provinces of the Dominion of Canada or of the Colony of Newfoundland, or by the rules, regulations, orders, customs, practice or discretion of any board, body, organization, office or officer, local, municipal or otherwise, be allowed, required or permitted to be executed, made, taken, given, tendered, accepted, filed or recorded for the security or protection of, by or for any person or persons, corporation, body, office, interest, municipality or other association or organization whatsoever, in any and all capacities whatsoever, conditioned for the doing or not doing of anything or any conditions which may be provided for in any such bond, recognizance, obligation, stipulation, or undertaking, or anything in the nature of either of the same.

I, **David L. Royer**, an Assistant Secretary of the UNITED STATES FIDELITY AND GUARANTY COMPANY, do hereby certify that the foregoing is a full, true and correct copy of the original power of attorney given by said Company to

Gordon G. Woods and/or H. C. Dickinson

of **Farmington, New Mexico**, authorizing and empowering **them** to sign bonds as therein set forth, which power of attorney has never been revoked and is still in full force and effect.

And I do further certify that said Power of Attorney was given in pursuance of a resolution adopted at a regular meeting of the Board of Directors of said Company, duly called and held at the office of the Company in the City of Baltimore, on the 11th day of July, 1910, at which meeting a quorum of the Board of Directors was present, and that the foregoing is a true and correct copy of said resolution, and the whole thereof as recorded in the minutes of said meeting.

In Testimony Whereof, I have hereunto set my hand and the seal of the UNITED STATES FIDELITY AND GUARANTY COMPANY on **August 14, 1970**
(Date)


Assistant Secretary.

OFF. 325-0181
RES. 327-8094

J. GREGORY MERRION
PETROLEUM ENGINEER
P. O. BOX 807
FARMINGTON, NEW MEXICO 87401

October 31, 1974

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

ATTENTION: Mr. J. E. Allen
Director

Re: Blanket Arizona Bond

Dear Bill:

Enclosed please find original and one copy of a statewide bond covering all of our wells in Arizona.

We would appreciate your advising USFPA through their agent, Woods Insurance Company, 115 East Main Street, Farmington, New Mexico, of the release of our existing one well bonds.

Yours very truly,

VERSION 1/11/88
BY J. Gregory Merrion
J. GREGORY MERRION

JGM/su

Enclosures: Statewide Bond - 2

RECEIVED

NOV 4 1974

O & G CONS. COMM.



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

November 4, 1974

Mr. J. Gregory Merrion
Merrion & Bayless
P. O. Box 1541
Farmington, New Mexico 87401

Re: Humble Oil Navajo #1
NE/SE Sec 4-T41N-R28E
Apache County
File #28

Humble Navajo #E-1
SW/NE Sec 10-T41N-R28E
Apache County
File #58

Humble #3 Navajo (413)
SW/SE Sec 4-T41N-R28E
Apache County
File #515

Dear Mr. Merrion:

The Gas-Oil Ratio Test that is due on the above referenced wells for September of 1974 has not been received. Please submit the results of the test on Form 5 as quickly as possible.

Very truly yours,

R. L. Brandt
Secretary to W. E. Allen
Director, Enforcement Section

/rlb

Enc.



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

June 25, 1974

Mr. Robert L. Bayless
Merrion & Bayless
P. O. Box 1541
Farmington, New Mexico 87401

Re: Humble Oil Navajo #E-1
SW/NE Sec 10-T41N-R28E
Apache County
Permit No. 58

Humble Oil #3 Navajo
SW/SE Sec 4-T41N-R28E
Apache County
Permit No. 515

Dear Mr. Bayless:

As of this date we have not received your semi-annual Gas-Oil Ratio Test on the above referenced wells. These tests were due in March.

Will you please submit this report as soon as possible.

Very truly yours,

Mrs. Rhema Brandt
Secretary to W. E. Allen
Director, Enforcement Section

/rlb

October 15, 1973

Mr. Robert L. Bayless
Merrion & Bayless
P. O. Box 1541
Farmington, New Mexico 87401

Re: Humble Oil Navajo #E-1
SW/NE Sec 10-T41N-R28E
Apache County
Permit No. 58

Humble Oil #3 Navajo (413)
SW/SE Sec 4-T41N-R28E
Apache County
Permit No. 515

Dear Mr. Bayless:

As of this date we have not received your semi-annual Gas-Oil Ratio Test on the above referenced wells. These tests were due in September.

Will you please submit this report as soon as possible.

Very truly yours,

W. E. Allen, Director
Enforcement Section

Mrs. Rhema Brandt
Secretary to W. E. Allen

/rlb

Encs.



OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

4515 NORTH 7TH AVE.

PHOENIX, ARIZONA 85013

PHONE: (602) 271-5161

September 18, 1973

Mr. J. Gregory Merrion
Merrion & Bayless
P. O. Box 1541
Farmington, New Mexico 87401

Dear Mr. Merrion:

Will you please supply this Commission with any information that you might have regarding the recoverable reserves in the East Boundary Butte Field for your Humble Navajo #1 (28), Humble Navajo #E-1 (6S), and Humble Navajo #3 (515)?

This information will be considered confidential if you so desire.

Thank you for your cooperation.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb



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

May 22, 1973

Mr. Robert L. Bayless
P. O. Box 507
Farmington, New Mexico 87401

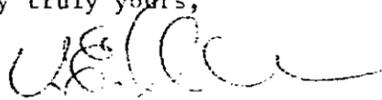
Re: Humble Navajo #E-1
SW/NE Sec 10-T41N-R28E
Apache County
Permit No. 58

Humble #3 Navajo (413)
SW/SE Sec 4T41N-R28E
Apache County
Permit No. 515

Dear Mr. Bayless:

The Gas-Oil Ratio Test that is due on the above referenced wells for March of 1973 has not been received. Please submit the results of the test on Form 5 as quickly as possible.

Very truly yours,


W. E. Allen, Director
Enforcement Section

/rlb

December 27, 1972

Mr. Robert L. Bayless
P. O. Box 507
Farmington, New Mexico 87401

Re: Humble Navajo #E-1
SW/NE Section 10-T41N-R28E
Apache County
Permit No. 58

Humble #3 Navajo (413)
SW/SE Section 4-T41N-R28E
Apache County
Permit No. 515

Dear Mr. Bayless:

The Gas-Oil Ratio Test that is due on the above referenced wells for September of 1972 has not been received. Please submit the results of the test on Form 5 as quickly as possible.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

May 9, 1972

Mr. Robert L. Bayless
Petroleum Club Plaza Building
P. O. Box 1541
Farmington, New Mexico 87401

Re: Humble Navajo #E-1
SW/NE Section 10-T41N-R28E
Apache County
Our File #58

Humble #3 Navajo (413)
SW/SE Section 4-T41N-R28E
Apache County
Our File #515

Dear Mr. Bayless:

The Gas-Oil Ratio Test that is due on the above referenced wells for March of 1972 has not been received. Please submit the results of the test on Form 5 as quickly as possible.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

WR

ROBERT L. BAYLESS

PETROLEUM CLUB PLAZA BUILDING

P. O. BOX 1541

FARMINGTON, NEW MEXICO 87401

November 29, 1971

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

Attn: W. E. Allen

Re: Humble Navajo #1
Humble Navajo #E-1
Humble #3 Navajo

Dear Sir:

In order for your request of November 22 concerning the Gas-Oil Ratio Tests to be filed with your office we will need some of the necessary forms before we can file the tests. Please send them to the above address as soon as possible .

Yours truly,

Robert L. Bayless

Robert L. Bayless *RLB*

RLB/eah

RECEIVED

DEC 01 1971

O & G CONS. COMM.

28, 515



OFFICE OF

Oil and Gas Conservation Commission

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

November 22, 1971

Mr. Robert L. Bayless
Petroleum Club Plaza Building
P. O. Box 1541
Farmington, New Mexico 87401

Re: Humble Navajo #1
NE/SE Section-4-T41N-R28E
Apache County
Our File #28

Humble Navajo #E-1
SW/NE Section-10T41N-R28E
Apache County
Our File #58

Humble #3 Navajo (413)
SW/SE Section-4-T41N-R28E
Apache County
Our File #515

Dear Mr. Bayless:

The Gas-Oil Ratio Test that is due on the above referenced wells for September of 1971 has not been received. Please submit the results of the test on Form 5 as quickly as possible.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/r1b

March 8, 1971

Mr. Greg Merrion
Merrion & Bayless
P. O. Box 1541
Farmington, New Mexico 87401

Re: Humble Navajo #E-1
SW/4 NE/4 Sec. 10-T41N-R28E
Apache County
Our File #58

Humble Navajo #1
NE/4 SE/4 Sec. 4-T41N-R28E
Apache County
Our File #28

Dear Greg:

We are sending you what information we have pertaining to the production on the above referenced wells. You will notice on the cumulative production by years there is no production shown for the years of 1956 and 1957. As near as I can determine all wells that had been drilled in the State of Arizona prior to and including these years were shut in awaiting a market for production. You will also notice that there is no water production indicated for either of these wells except for the year of 1970. Apparently, prior to this time water production was not recorded.

We sincerely hope that this information will be of some value to you.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA:jd
Enc.

December 31, 1970

Mr. Robert L. Bayless
Petroleum Club Plaza Building
P. O. Box 1341
Farmington, New Mexico 87401

Re: Navajo #1
11/4 11/4 Sec. 4-141R-228
Apache County
Our file #5

Navajo #1-1
11/4 11/4 Sec. 10-141R-228
Apache County
Our file #36

Navajo #3 Navajo (413)
11/4 11/4 Sec. 4-141R-228
Apache County
Our file #515

Dear Mr. Bayless:

Your letter of December 28, 1970, has been received; and, we are curious concerning your explanation of Production Reports. We assume that you keep records of your daily production and runs. If you do keep these records, your Monthly Producers Report, Form 16, could be prepared from information available to you from your own records.

We realize that there may at times be a slight discrepancy between the total production that you submit from your own records and the corrected production as submitted by your transporter. This difference should be small.

We are striving to be able to circulate our combined monthly production report as quickly after the first of the following month as possible. For this reason, if at all possible, we need information from the producers to be received in this office on or before the 15th of each month.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA:jd

ROBERT L. BAYLESS

PETROLEUM CLUB PLAZA BUILDING

P. O. BOX 1541

FARMINGTON, NEW MEXICO 87401

RECEIVED

DEC 31 1970

O & G CONS. COMM.

December 28, 1970

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

Re: Humble Navajo #1
Apache County
Your File #28

Humble Navajo #1-E
Apache County
Your File #58

Humble #3 Navajo (413)
Apache County
Your file #515

Gentlemen:

We have your letter of December 24 regarding reports of wells we operate in Arizona. Unfortunately we do not receive the information needed to submit these reports until around the 22nd of each month from the crude oil purchaser. We then report to Arizona as quick as possible. Please advise if you have other questions.

Yours very truly,


Robert L. Bayless

RLB/eah

ROBERT L. BAYLESS

PETROLEUM CLUB PLAZA BUILDING

P. O. BOX 1541

FARMINGTON, NEW MEXICO 87401

RECEIVED

DEC 31 1970

O & G CONS. COMM.

December 28, 1970

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

Re: Humble Navajo #1
Apache County
Your File #28

Humble Navajo #1-E
Apache County
Your File #58

Humble #3 Navajo (413)
Apache County
Your file #515

Gentlemen:

We have your letter of December 24 regarding reports of wells we operate in Arizona. Unfortunately we do not receive the information needed to submit these reports until around the 22nd of each month from the crude oil purchaser. We then report to Arizona as quick as possible. Please advise if you have other questions.

Yours very truly,


Robert L. Bayless

RLB/eah



OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

4515 NORTH 7th AVE.
PHOENIX, AZ. 85013

Phoenix, Arizona 85007

PHONE: 271-5161

December 24, 1970

Mr. Robert L. Bayless
Merrion and Bayless
P. O. Box 1541
Farmington, New Mexico 87401

Re: Humble Navajo #1 Humble Navajo #1-E
NE/4 SE/4 Section 4-T41N-R28E SW/4 NE/4 Sec. 10-T41N-R28E
Apache County Apache County
Our File #28 Our File #58

Humble #3 Navajo (413)
SW/4 SE/4 Section 4-T41N-R28E
Apache County
Our File #515

Dear Mr. Bayless:

As of this date we have not received your Production Report on the subject wells. Will you please submit this report immediately and in the future we would appreciate receiving your Production Reports as well as all other routine reports by the 15th of the following month.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA:jd

November 24, 1970

Mr. Robert L. Bayless
Merrion and Bayless
P. O. Box 1541
Farmington, New Mexico 87401

Re: Humble Navajo #1
NE/4 SE/4 Sec. 4-T41N-R28E
Apache County
Our File #28

Humble Navajo #1-E
SW/4 NE/4 Sec. 10-T41N-R28E
Apache County
Our File #58

Humble #3 Navajo (413)
SW/4 SE/4 Sec. 4-T41N-R28E
Apache County
Our File #515

Dear Mr. Bayless:

As of this date we have not received your Production Report on the above three wells.

Will you please forward this report to this office immediately and in the future arrange to submit your Monthly Producers Report, Form 16, to this office by the tenth (10th) of the following month.

Very truly yours,

W. E. Allen
Director, Enforcement Section

WEA:jd



OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

4515 NORTH 7th AVE.
PHOENIX, AZ. 85013
Phoenix, Arizona 85007

PHONE: 271-5161

November 24, 1970

Mr. Robert L. Bayless
Merrion and Bayless
P. O. Box 1541
Farmington, New Mexico 87401

Re: (AAA Fishing Tool) #E-2 Humble Navajo
SW/4 NE/4 Section 9-T41N-R28E
Apache County
Our File #444

Dear Mr. Bayless:

It has come to our attention that when you supplied the Oil and Gas Conservation Commission with bonds on your acquired wells: the Navajo #1, the Navajo E-1, and the Navajo #3 from Humble Oil and Refining Company that you failed to furnish a bond for the #E-2 Navajo that was also acquired from Humble and is presently being used as a water injection well. Will you please furnish the Commission with an additional bond in the amount of \$5,000 to cover this well.

Very truly yours,

W. E. Allen
Director, Enforcement Section

WEA:jd

cc: Humble Oil & Refining Company

Enc.

October 23, 1970

Mr. Robert L. Bayless
Merrion & Bayless
P. O. Box 1541
Farmington, New Mexico 87401

Re: Humble Navajo #1-E Humble #3 Navajo (413)
 SW/4 NE/4 Section 10-T41N-R28E SW/4 SE/4 Section 4-T41N-R29E
 Apache County Apache County
 Our File #58 Our File #515

Dear Mr. Bayless:

As of this date we have not received your semi-annual Gas-Oil Ratio Test on the above referenced wells. These tests were due in September.

Please refer to the Rules and Regulations of the Oil and Gas Conservation Commission of the State of Arizona under Rule 301-A for information on the above requested requirements.

Very truly yours,

W. E. Allen
Director, Enforcement Section

WEA:jg
Enc.

ROBERT L. BAYLESS
PETROLEUM CLUB PLAZA BUILDING
P. O. BOX 1541
FARMINGTON, NEW MEXICO 87401

WA

August 31, 1970

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

Gentlemen:

Enclosed please find Performance Bonds on Humble Navajo #1-E,
Humble #3 Navajo, and Humble Oil & Refining Navajo #1.

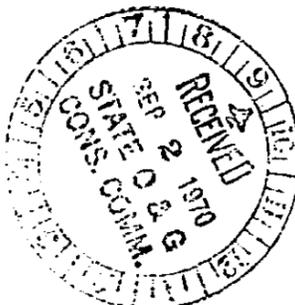
Yours very truly,

MERRION & BAYLESS

Robert L. Bayless
Robert L. Bayless

RLB/eah

ENLC.



July 29, 1970

Mr. Robert L. Bayless
Herrion and Bayless
P. O. Box 1541
Farmington, New Mexico 87401

Re: Humble Oil & Refining Navajo #1	Humble Navajo #1-E
NE/4 SE/4 Sec. 4-T41N-R28E	SW/4 NE/4 Sec. 10
Apache County	T41N-R28E
Our File #28	Apache County
	Our File #38

Humble #2 Navajo (413)
SW/4 SE/4 Sec. 4-T41N-R29E
Apache County
Our File #510

Dear Mr. Bayless:

This is to advise you that a copy of your bond with the Navajo Tribe will not satisfy our requirements. Before we can release Humble from their bonding operations on the wells you have purchased in the East Boundary Sante Field, you will need to furnish the Commission with a bond of \$5,000 on each well or a blanket bond of \$25,000. This blanket bond will cover your present and future operations in the State of Arizona.

We are enclosing six copies of Form 2, Performance Bond. If you bond each individual well, we will require one copy of this form for each well. Should you decide on the blanket bond, one copy will be sufficient for all wells.

Page 2
Mr. Robert L. Bayless
July 29, 1970

Please forward all copies of this form to our office for approval. One copy will be returned for your files. Your cooperation is appreciated.

Very truly yours,

W. E. Allen
Director, Enforcement Section

WEA:jd
Enc.

ROBERT L. BAYLESS

PETROLEUM CLUB PLAZA BUILDING

P. O. BOX 1541

FARMINGTON, NEW MEXICO 87401

July 27, 1970

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

Gentlemen:

Enclosed please find Organization Report to cover our operations in Arizona. Effective August 1, 1970 we have acquired Humble Oil and Refining Company's East Boundary Butte field and will operate as J. Gregory Merrion and Robert L. Bayless, individuals.

We have our Bond with the Navajo Tribe ready to file upon receipt of the Conveyances from Humble. Please advise if a copy of this will be acceptable for your bonding requirements.

Thank you,

MERRION & BAYLESS

Robert L. Bayless
Robert L. Bayless

RLB/eah
ENCL. Organization Report



July 8, 1970

Merrion & Bayless
Petroleum Club Plaza Building
P.O. Box 1541
Farmington, New Mexico 87401

Re: Humble Oil & Refining Navajo #1 Humble Navajo #1-E
NE/4 SE/4 Sec. 4-T41N-R28E SW/4 NE/4 Sec. 10-T41N-R28E
Apache County Apache County
Our File #28 Our File #58

Humble #2 Navajo (413)
SW/4 SE/4 Sec. 4-T41N-R28E
Apache County
Our File #515

Attention: Mr. James M. Johnson, Office Manager

Gentlemen:

Thank you for your letter advising the Commission of your purchase from Humble Oil & Refining Company of the two leases in the East Boundary Butte Field.

Enclosed is a copy of the Rules and Regulations established by the Oil and Gas Commission of the State of Arizona. You will find these rules similar to the rules under which you operate in New Mexico. Also enclosed are a supply of the forms which will be required to report your activities to this office.

We will need Form #1, Organization Report, completed and sent in as quickly as possible. As you know, every well in Arizona is drilled and produced under bond, see Rule 101, Page 6, of Rules

Page 2
Merrion & Bayless
July 8, 1970

and Regulations. Before we can release Humble from the bond covering the wells on the subject leases, it will be necessary that you furnish the Commission a bond in the amount of \$5,000 on each well or a blanket bond of \$25,000 which will cover your present or any future operations within the State.

After you have had an opportunity to look over the Rules and Regulations and also the forms that we require, and you have any questions, please let us know.

Every member of the Oil and Gas Commission extends a hearty welcome to you and your company in entering Arizona and wish you success in your operations.

You may expect our fullest cooperation.

Very truly yours,

W. E. Allen
Director of Enforcement Section

WEA:jd
Enc.

ROBERT L. BAYLESS

PETROLEUM CLUB PLAZA BUILDING

P. O. BOX 1541

FARMINGTON, NEW MEXICO 87401

July 6, 1970

Director
Arizona Oil & Gas Conservation Commission
1624 West Adams, Room 202
Phoenix, Arizona 85007

Dear Sir:

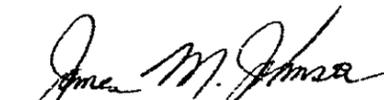
We recently purchased two producing leases from the Humble Oil & Refining Company located in East Boundary Butte Field and are to assume operations effective August 1, 1970.

We need to have a copy of the Arizona Oil & Gas Conservation Commission rules and regulations and in addition need a supply of any forms that might be required. Would you please send the above mentioned items to Box 1541, Farmington, New Mexico 87401.

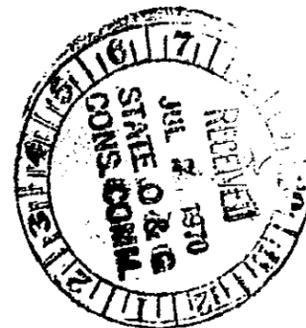
Any additional information or suggestions that you provide will be greatly appreciated.

Yours very truly,

MERRION & BAYLESS


James M. Johnson
OFFICE MANAGER

JMJ/jmj



January 16, 1970

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

Re: Humble Navajo #1-E
T41N, R28E, G & SRM
Sec. 10: SW/4 NE/4
Apache County
Permit #58

Humble Navajo #1
T41N, R28E, G & SRM
Sec. 4: NE/4 SE/4
Apache County
Permit #28

Dear Mr. Dorrrough:

This is to remind you that a Gas-Oil Ratio Test pertaining to the captioned wells was due in this office in December of 1969. As of this date we have not received this quarterly test. We would appreciate receiving it as soon as possible.

*not needed
only sub-
mitted
annually*

Sincerely,

John Bannister
Executive Secretary

jd



HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

DENVER DISTRICT

POST OFFICE BOX 120

April 8, 1969

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

Gentlemen:

Attached please find "Well Status Report and Gas-Oil Ratio Tests", Form No. 5, on our Navajo Tract 138 #1 and Boundary Butte, East wells. Tests have been taken on our Navajo Tract 88 #2 and #3 but we do not have the gas volumes back from being integrated. We should have these within the next few days and will submit the report as soon as these volumes are available.

42

Very truly yours,

J. Roy Dorrrough

cc: Minerals Supervisor - Navajo Tribe



58

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

X-Lambert
X-CHRONO

April 10, 1958

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

Re: Humble #1 Navajo Tract 132	Our Permit 389 X
Humble #2 Navajo 88	Our Permit 411 X
Humble #3 Navajo 88	Our Permit 443 X
Humble Navajo #1-2	Our Permit 58 X
Humble Navajo #1	Our Permit 26 X

Dear Mr. Dorrrough:

This is in reference to our reminder letters dated March 3 and February 26. Please furnish this Commission a Gas-Oil Ratio Test on each of the captioned wells.

Yours truly,

James A. Lambert
Administrative Assistant

JL

Handwritten notes:
Lambert
2/23/69
2/23/69

February 26, 1969

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

Re: Navajo #1-A
T41N, R28E, G & SRM
Sec. 10: SW/4 NE/4
Apache County, Arizona
Permit #58

Navajo #1
T41N, R28E, G & SRM
Sec. 4: NE/4 SE/4
Apache County, Arizona
Permit #26

Dear Mr. Dorrrough:

We remind you that Rule 3017, Paragraph 2, of our Rules and Regulations directs the operator to make a semi-annual Gas-Oil Ratio Test of each producing oil well. The next test should be taken in March, 1969, and reported to this office by April 10, 1969.

Enclosed are forms for your use.

Yours truly,

James A. Lambert
Administrative Assistant

jl
Enc.

January 10, 1969

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

Re: Humble Oil & Refining Company Navajo #1-E
T41N, R28E, G & SRM
Sec. 10: SW/4 NE/4
Apache County, Arizona
Permit #58

Dear Mr. Dorrrough:

We are in receipt of the Sundry Notices and Reports on Wells Form you submitted dated 1-2-69. As soon as the reworking operations have been completed, please submit the well Completion or Recompletion Report, our Form #4, which is enclosed for your convenience. Both sides of this form must be completed before it will be acceptable. We will also be watching for Form #6, Potential Test Report, to be submitted promptly. *read 1/23/69*

Yours truly,

James A. Lambert
Administrative Assistant

jf

Enc.

58

*Recd 1/27/69
Completed in blank by
this office from Form 4 on 1/24/69
(74)*

December 26, 1968

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

Re: Navajo #1-E
T41N, R28E, G & SRM
Sec. 10: SW/4 NE/4
Apache County, Arizona
Permit #58

Navajo #1
T41N, R28E, G & SRM
Sec. 4: NE/4 SE/4
Apache County, Arizona
Permit #28

Dear Mr. Dorrrough:

Please submit Sundry Notice Reports detailing the status of the reworking activities approved by this Commission on 12-12-68. We requested this information in correspondence dated 12-19-68 and would appreciate receiving it promptly.

Yours truly,

James A. Lambert
Administrative Assistant

jf

December 19, 1968

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

Re: Navajo #1-E
T41N, R28E, G & SRM
Sec. 10: SW/4 NE/4
Apache County, Arizona
Permit #58

Navajo #1
T41N, R28E, G & SRM
Sec. 4: NE/4 SE/4
Apache County, Arizona
Permit #28

Dear Mr. Dorrrough:

Our records indicate that we require Sundry Notice Reports, our Form #25, detailing the status of the reworking activities of the captioned wells. Also in compliance with Rule 301-C of the published Rules and Regulations, please submit our form #6, Potential Test Report, for each of these wells. These forms are included for your convenience.

Yours truly,

James A. Lambert
Administrative Assistant

jf

Enc.

November 4, 1968

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

Re: Navajo #1-E
T41N, R28E, G & SRM
Sec. 10: SW/4 NE/4
Apache County, Arizona
Permit #58

Dear Mr. Dorrough:

Please submit completed Sundry Notices and Reports
On Wells Form. We enclose a supply of our Form
#25 for your use. Please detail all activities
pertaining to this well subsequent to your report
dated September 30, 1968, to date.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jf

Enc.

October 3, 1968

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

Re: Navajo #1-E
T41N, R28E, G & SRM
Sec. 10: SW/4 NE/4
Apache County, Arizona
Permit #58

Dear Mr. Dorrrough:

Enclosed is approved sundry notice pertaining to captioned well. We remind you that we require a Well Completion or Recompletion Report to be filed on accomplishment of your plan.

Yours truly,

James A. Lambert
Administrative Assistant

JAL:jf

Enc.



HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

DENVER DISTRICT

POST OFFICE BOX 120

May 7, 1968

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

Re: D-2-67 of September 11, 1967
Gas-Oil Ratio Test (Rule 301)

Gentlemen:

In reply to your letter of April 23, 1968 pertaining to above tests on the following wells:

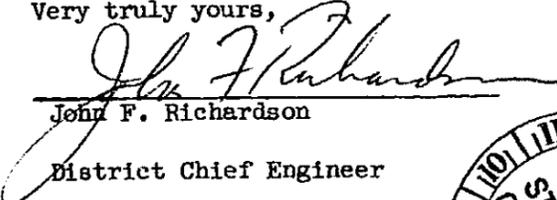
Humble #1 Navajo
NE SE 4-41N-28E Apache County
Permit 28

Humble #1-E Navajo
SW NE 10-41N-28E Apache County
Permit 58

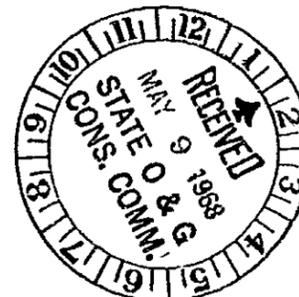
These test were apparently overlooked during the prescribed test period. We have informed our field personnel to take tests immediately and will submit reports as soon as information is received in this office.

We regret any inconvenience this may have caused and will make sure these tests are taken at the proper time in the future.

Very truly yours,


John F. Richardson

District Chief Engineer



OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
ROOM 302
1024 WEST ADAMS
Phoenix, Arizona 85007
PHONE: 271-5161

April 23, 1968

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

Re: D-2-67 of September 11, 1967
Gas-Oil Ratio Test (Rule 301)

Gentlemen:

According to our records, the data indicated below has not been submitted as called for by our rules and regulations. You are urged to submit this data at once to bring this operation into compliance with the rules and regulations.'

<u>Well</u>	<u>Data</u>
Humble #1 Navajo NE SE 4-41N-28E Apache County Permit 28	GOR due April 10, 1968
Humble #1-E Navajo SW NE 10-41N-28E Apache County Permit 58	GOR due April 10, 1968

Very truly yours,

John Bannister
Executive Secretary
mr

LIABILITY UNDER THIS BOND MAY NOT BE TERMINATED WITHOUT WRITTEN PERMISSION OF THIS COMMISSION.

BOND

KNOW ALL MEN BY THESE PRESENTS

BOND SERIAL NO. 8027-26-25

That we: HUMBLE OIL & REFINING COMPANY of the County of: Denver in the State of: Colorado as principal, and FEDERAL INSURANCE COMPANY of New York, New York 10038 (A New Jersey corporation) AUTHORIZED TO DO BUSINESS WITHIN the State of Arizona.

as surety, are held and firmly bound unto the State of Arizona in the penal sum as indicated, lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The conditions of this obligation is that whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State, to wit:

(May be used as blanket bond or for single well)

2310 FNL - 1980 FEL Section 10-41 North-28 East, G & S R

NOW, THEREFORE, if the above bounden principal shall comply with all of the provisions of the laws of this State and the rules, regulations and orders of the Oil and Gas Conservation Commission, especially with reference to the requirements of A.R.S. 27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil & Gas Conservation Commission all notices and records required by said Commission, in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, then this obligation is void; otherwise, the same shall be and remain in full force and effect.

Penal sum of Five Thousand and no/100 Dollars (\$5,000.00)

Witness our hands and seals, this 12th day of November, 1965

HUMBLE OIL & REFINING COMPANY

By: [Signature] Attorney-in-Fact

O. K. as to Association [Signature] O. K. as to Form [Signature]

Witness our hands and seals, this 12th day of November, 1965

COUNTERSIGNED BY: [Signature] O'Malley Ins. Co., Inc., 2700 N. Central Ave. Phoenix, Arizona ARIZONA RESIDENT AGENT

FEDERAL INSURANCE COMPANY

By: [Signature] Surety, Attorney-in-Fact

(If the principal is a corporation, the bond should be executed by its duly authorized officers, with the seal of the corporation affixed. When principal or surety executes this bond by agent, power of attorney or other evidence of authority must accompany the bond.)

Approved Date 11-29-65 STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION By: [Signature] DATE 5-13-67

CANCELLED

Permit No. 58

Certified Copy of
POWER OF ATTORNEY

Know all Men by these Presents, That the FEDERAL INSURANCE COMPANY, 90 John Street, New York, New York, a New Jersey Corporation, has constituted and appointed, and does hereby constitute and appoint

C. Gale Neiswanger
L. A. Loiseau
Carl Cross
Robert J. Marker
Walter J. Kulp, Jr.
of
Denver, Colorado

each its true and lawful Attorney-in-Fact to execute under such designation in its name and to affix its corporate seal to and deliver for and on its behalf as surety thereon or otherwise, bonds of either of the following classes, to-wit:

1. Bonds on behalf of contractors in connection with bids, proposals or contracts to or with the United States of America, any State or political subdivision thereof or any person, firm or corporation.
2. Surety Bonds to the United States of America or any agency thereof, including those required or permitted under the laws or regulations relating to Customs or Internal Revenue; License and Permit bonds or other indemnity bonds under the laws, ordinances or regulations of any State, City, Town, Village, Board or other body or organization, public or private; bonds to Transportation Companies, Lost Instrument bonds, Lease bonds, Workmen's Compensation bonds, Miscellaneous Surety bonds and bonds on behalf of Notaries Public, Sheriffs, Deputy Sheriffs and similar public officials.
3. Bonds and Undertakings (other than Fiduciary Bonds) filed in any suit, matter or proceeding in any Court, or filed with any Sheriff or Magistrate, for the doing or not doing of anything specified in such Bond or Undertaking, in which the penalty of the bond or undertaking does not exceed the sum of Fifty Thousand Dollars (\$50,000.00).

In Witness Whereof, the said FEDERAL INSURANCE COMPANY has, pursuant to its By-Laws, caused these presents to be signed by its Vice President and Assistant Secretary and its corporate seal to be hereto affixed this 1st day of February 19 64.

FEDERAL INSURANCE COMPANY

By

Frederick C. Gardner

Frederick C. Gardner
Vice President

Davis Quinn

Davis Quinn
Assistant Secretary



STATE OF NEW YORK
County of New York

ss.:

On this 1st day of February 19 64, before me personally came Davis Quinn, to me known and by me known to be Assistant Secretary of the FEDERAL INSURANCE COMPANY, the corporation described in and which executed the foregoing Power of Attorney and the said Davis Quinn being by me duly sworn, did depose and say that he resides in the City of New York, in the State of New York; that he is Assistant Secretary of the FEDERAL INSURANCE COMPANY and knows the corporate seal thereof; that the seal affixed to the foregoing Power of Attorney is such corporate seal and was thereto affixed by authority of the By-Laws of said Company and that he signed said Power of Attorney as Assistant Secretary of said Company by like authority; that he is acquainted with Frederick C. Gardner and knows him to be Vice President of said Company, and that the signature of said Frederick C. Gardner subscribed to said Power of Attorney is in the genuine handwriting of said Frederick C. Gardner and was thereto subscribed by authority of said By-Laws and in deponent's presence.

Acknowledged and Sworn to before me
on the date above written.

Marion J. McGrath

Notary Public
MARION J. McGRATH
NOTARY PUBLIC, State of New York
No. 24-7837850
Qualified in Kings County
Certificate filed in New York County
Commission Expires March 30, 1964



CITY AND COUNTY OF NEW YORK: ss

I, the undersigned, Assistant Secretary of the FEDERAL INSURANCE COMPANY, do hereby certify that the following is a true excerpt from the By-Laws of the said Company as adopted by its Board of Directors on March 11, 1953 and amended January 2, 1964 and that this By-Law is in full force and effect.

"ARTICLE XIX.

Section 2. All bonds, undertakings, contracts, powers of attorney, and other instruments other than as above, for and on behalf of the Company which it is authorized by law or its charter to execute, may and shall be executed in the name and on behalf of the Company either by the Chairman or the Vice-Chairman or the President or a Vice-President, jointly with the Secretary or an Assistant Secretary, under their respective designations, except that any one or more officers or attorneys-in-fact designated in any resolution of the Board of Directors or the Executive Committee, or in any power of attorney executed as provided for in this section, may execute any such bond, undertaking or other obligation as provided in such resolution or power of attorney."

And I further certify that I have compared the foregoing copy of the POWER OF ATTORNEY with the original thereof and the same is a correct and true copy of the whole of said original Power of Attorney and that said Power of Attorney has not been revoked.

And I further certify that said FEDERAL INSURANCE COMPANY is duly licensed to transact fidelity and surety business in each of the States of the United States of America, Puerto Rico, and each of the Provinces of the Dominion of Canada with the exception of Prince Edward Island; and is also duly licensed to become sole surety on bonds, undertakings, etc., permitted or required by the laws of the United States.

Given under my hand and seal of said Company at New York, N. Y., this 12th day of

November, 1965

Walter La Forge
Assistant Secretary

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

THAT HUMBLE OIL & REFINING COMPANY, a Delaware corporation, hereinafter referred to as "Humble", having an office at Tulsa, Oklahoma, acting by its undersigned Vice President, hereunto duly authorized, has nominated, constituted and appointed, and by these presents does nominate, constitute and appoint J. Roy Dorrrough its true, sufficient and lawful Attorney in Fact for it and in its name, place and stead to negotiate for, and in the course of the business of said corporation to execute and deliver the following instruments pertaining to Humble's oil, gas and/or other mineral producing operations:

1. Drilling contracts including core drill contracts.
2. Joint operating agreements, including unit operating agreements related to unit agreements requiring approval by the Secretary of the Interior, and any and all instruments required or permitted in connection with such agreements or operations thereunder.
3. Communitization agreements entered into with owners of the various interests (including fee, royalty and leasehold interests) in oil, gas and other minerals by which to establish a unit or units for the production of oil, gas or other minerals, including such communitization agreements or unit agreements which require approval by the Secretary of the Interior and any and all instruments including notices and declarations, required or permitted to be executed in connection with such agreements or operations thereunder.
4. Compensatory royalty agreements.
5. Contracts for the purchase of producing oil and gas leases.
6. Salt water disposal agreements, water-flood agreements and agreements pertaining to secondary or other recovery operations.
7. Surface leases, easements and rights-of-way in favor of Humble together with applications, bonds or other undertakings, statements, and other instruments incident to the acquisition and acceptance thereof.
8. Applications, reports, statements and all other instruments relating to or required or permitted in connection with appropriations of waters or the acquisition of waters and/or water rights.
9. Applications, reports, statements, or other instruments including designations of operator, required or permitted by any governmental body or agency in connection with location, construction, drilling, completion, operation, plugging or abandonment of wells, plants and structures.
10. All bonds, undertakings, recognizances or other written obligation in the nature thereof not exceeding in amount \$50,000.00 in any single instance.
11. Leases and/or rental agreements for terms not to exceed one year in duration pertaining to office space to be occupied by personnel of the Production Department, provided the rental for such space does not exceed the sum of \$500.00 per month.
12. Contracts and/or bills of sale conveying equipment and other personal property, including automobiles and trucks.

IN WITNESS WHEREOF, HUMBLE OIL & REFINING COMPANY has caused this instrument to be executed by its undersigned Vice President, attested by its undersigned Assistant Secretary, and has caused its corporate seal to be affixed hereto this 20th day of November, 1964.

ATTEST:

LeRoy Young
LeRoy Young, Assistant Secretary

HUMBLE OIL & REFINING COMPANY

By John L. Loftis, Jr.
John L. Loftis, Jr., Vice President

STATE OF OKLAHOMA)
COUNTY OF TULSA) SS.

On this 20th day of November, 1964, before me, a Notary Public in and for said County and State, personally appeared JOHN L. LOFTIS, JR., to me personally known to be the identical person who subscribed the name of the maker thereof to the foregoing instrument as Vice President of HUMBLE OIL & REFINING COMPANY, a corporation, and acknowledged to me that he executed the same as his free and voluntary act and deed and as the free and voluntary act and deed of such corporation for the uses and purposes therein set forth, and by authority of a resolution of the board of directors of said company.

WITNESS my hand and official seal the day and year last above written.

My commission expires:

My Commission Expires Feb. 7, 1966

Mary E. McBride
Notary Public

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
1824 WEST ADAMS
Phoenix, Arizona 85007
PHONE: 271-5161

JOHN BANNISTER
EXECUTIVE SECRETARY
J. R. SCURLOCK
PETROLEUM GEOLOGIST

May 15, 1967

Fireman's Fund American Insurance Company
P.O. Box 66490
Houston, Texas 77006

Attention: Mr. J.F. Spence, Jr., Bond Dept.

Re: Bond 5-10-11-58, \$25,000.00
Humble Oil & Refining Company

Gentlemen:

Your letter of May 10, 1967 concerning captioned bond is acknowledged.

Please be advised that this will constitute permission from this Commission to terminate Federal Insurance Company Bonds 8027-26-26 and 8027-26-25, in the amount of \$5,000 each, covering Humble's #1 Navajo well, 4-41N-28E, Apache County, and Humble's #E-1 Navajo well, 10-41N-28E, Apache County.

The captioned bond will now be applied to these above wells as well as any other wells drilled by Humble Oil and Refining Company within this state.

Very truly yours, .

John Bannister
John Bannister
Executive Secretary
MB

cc: Humble Oil & Refining Co., Attn Mr. S.E. Key,
2000 Classen Center North, Oklahoma City, Okla.

Federal Insurance Co., c/o Loiseau, Neiswanger & Co.
1410 Security Life Bldg., Denver, Colo. 80202

October 6, 1966

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

Attention: Mr. J. Roy Dorrough, District Production Supt.

Re: Humble Oil & Refining #1 Navajo E well
SW NE 10-41-28E, Apache County, Arizona
Permit 58

Gentlemen:

In reply to your letter of October 3, 1966 concerning flaring of gas from captioned well, this letter will constitute authority from this Commission to continue to flare the excess gas as therein outlined.

It is requested that should there be a continued and substantial deviation from the amount of gas thus flared we be immediately notified.

Your cooperation is appreciated.

Very truly yours,

John Bannister
Executive Secretary
mr

cc: Mr. J.H. Adams



HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

DENVER DISTRICT

POST OFFICE BOX 120

October 3, 1966

Mr. John Bannister
Executive Secretary
Oil and Gas Conservation Commission
State of Arizona
Phoenix, Arizona

Re: Humble Oil & Refining #1 Navajo E Well
SW NE Section 10-41N-28E
Apache County, Arizona
Permit 58

Dear Mr. Bannister:

This is in response to your letter of September 20, 1966, concerning the subject well.

From September 1, 1965, through August 31, 1966, the subject well produced a total 30,873 MCF of gas, or an average of 85 MCF per day. Of this gas, 1,857 MCF, or 5 MCF per day, has been used for fuel and 29,016 MCF, or 80 MCF per day, has been flared.

Our production facilities are constructed such that an intermediate compressor would be required to effect the sale of the vented gas. This compressor would be necessary to compress the gas from the treater pressure of 28 psi to the 300 psi necessary for the gas to enter the dehydrator just upstream of the Navajo 1 gas compressor.

An economic analysis was made and concluded that the necessary investment to effect sale of this gas would not be economically justifiable. Since no other constructive use of this gas is thought to be practical, we request that you continue to allow us to flare this small amount of gas in order that the associated oil may be produced.

Very truly yours,

J. ROY DORROUGH

By J. H. Adams
J. H. Adams

September 20, 1966

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

Attention: Mr. J. Roy Dorrough, District Production Supt.

Re: Humble Oil & Refining #1 Navajo E well
SW NE 10-41N-28E, Apache County, Arizona
Permit 58

Gentlemen:

We note that in your gas production reports you have been continually showing the flaring of casinghead gas. These reports have been constant for approximately the past year.

Would you please advise why it is necessary to flare this quantity of gas; and if there is a way to prevent the flaring of this product, would you please discuss what steps you are taking.

Your early reply would be appreciated.

Very truly yours,

John Bannister
Executive Secretary
mr

Operator Humble Oil & Refining Company

Bond Company Federal Insurance Co. Amount \$10,000.00

Bond No. 8002-92-35 Date Approved July 16, 1963

Permits covered by this bond:

b

see this file → 28 producing

118 D&A - File complete.

58 producing

65 PA

CANCELLED

DATE 11-29-65

November 29, 1965

C
O
P
Y

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

Re: Federal Insurance Co. Bond 8027-26-26 covering
Humble Oil & Refining Co. #1 Navajo well
NE/4SE/4 4-41N-28E, Apache County, Arizona
Permit 28

Federal Insurance Co. Bond 8027-26-25 covering
Humble Oil & Refining Co. #E2 Navajo well
SW/4NE/4 10-41N-28E, Apache County, Arizona
Permit 58

Federal Insurance Co. Blanket Bond 8002-92-35

Gentlemen:

Enclosed are approved copies of bonds covering individual wells captioned above.

Inasmuch as all other wells drilled under Federal Insurance Co. Blanket Bond 8002-92-35 have been completed and all required information has been submitted in accordance with our Rules and Regulations, this letter then will constitute authority from this Commission to terminate said blanket bond.

Your cooperation is very much appreciated.

Very truly yours,

John Baunister
Executive Secretary
mr
enc

cc: Federal Insurance Company
New York, New York 10038

September 2, 1965

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

Attention: Mr. J. Roy Derrough, District Production Supt.

Re: Humble Oil & Refining #1-E Navajo well
SW NE 10-41N-28E, Apache County, Arizona
Permit 58

Gentlemen:

Enclosed please find an approved copy of Operator's Certificate of Compliance and Authorization to Transport Oil or Gas from Lease.

We very much appreciate your cooperation.

If we may be of service at any time, please advise.

Yours very truly,

John Bannister
Executive Secretary
mr
enc

September 1, 1965

The Arizona Republic
120 East Van Duren
Phoenix, Arizona

Gentlemen:

This is to confirm our telephoned instruction to cancel publication of Notice of Hearing, Case 21.

Notice of Hearing, Case 20, is to be published as requested in our letter of August 30, 1965.

Yours very truly,

John Bannister
Executive Secretary
JR

August 30, 1965

The Arizona Republic
120 East Van Buren
Phoenix, Arizona

Gentlemen:

Attached please find notices of hearings to be held by this Commission on September 22, 1965.

Will you please publish both these notices on September 6-7-8-9-10-11, 1965, a total of six days.

Upon conclusion of the publication of these notices, will you please bill this office and furnish affidavits of publication. Please sign both copies of the enclosed voucher form and attach to your billing.

Yours very truly,

John Bannister
Executive Secretary
MB

enc: Notice of Hearing, Case 20 and Case 21
Voucher forms

NOTICE OF HEARING

CASE 21

NOTICE IS HEREBY GIVEN to all interested parties that the OIL AND GAS CONSERVATION COMMISSION of the STATE OF ARIZONA will hold a hearing on the application of Humble Oil & Refining Company wherein said company requests permission to dually complete its Navajo #1-E well, located SW/4NE/4 S10-T41N-R28E, Apache County, Arizona.

Said hearing will be held on September 22, 1965 at 2:00 p.m. in the Arizona State Highway Department Auditorium, 206 South Seventeenth Avenue, Phoenix, Arizona.

OIL AND GAS CONSERVATION COMMISSION
STATE OF ARIZONA
By Lynn Lockhart, Chairman

Attest:

John Bannister, Executive Secretary

C
O
P
Y

Certified
No. 461055

August 30, 1965

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

Attention: Mr. J. Roy Dorrough, District Superintendent

Re: Humble Oil & Refining #1 Navajo E well
SW/4NE/4 10-41N-28E, Apache County
Our Permit 58

Gentlemen:

We are in receipt of your notice concerning the re-completion of the captioned well as a dual oil and gas well.

This letter is to call your attention to our Rule 114 concerning multiple zone completions. Such dual completions as this may be done only upon approval of the Commission after a formal hearing.

This letter is to advise that you must make application for this hearing and bring yourself into full compliance with Rule 114.

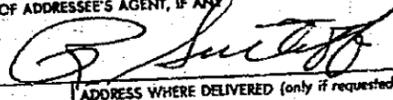
Production from more than one zone prior to this hearing will be considered as illegal production by this Commission.

Should you have any questions concerning this Rule, or the necessary

Yours very truly,

John Bannister
Executive Secretary
RB

cc: Attorney General

#1-INSTRUCTIONS TO DELIVERING EMPLOYEE	
<input type="checkbox"/> Deliver <i>ONLY</i> to addressee	<input type="checkbox"/> Show address where delivered
<i>(Additional charges required for these services)</i>	
RETURN RECEIPT	
Received the numbered article described on other side.	
SIGNATURE OR NAME OF ADDRESSEE (must always be filled in)	
Humble Oil & Refining Company	
SIGNATURE OF ADDRESSEE'S AGENT, IF ANY	
	
DATE DELIVERED	ADDRESS WHERE DELIVERED (only if requested in item #1)
SEP 2 1965	
CS-18-71542-6 GPO	

Certified
No. 461055

August 30, 1965

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

Attention: Mr. J. Roy Dorrough, District Superintendent

Re: Humble Oil & Refining #1 Navajo E well
SW/4NE/4 10-41N-28E, Apache County
Our Permit 58

Gentlemen:

We are in receipt of your notice concerning the re-completion of the captioned well as a dual oil and gas well.

This letter is to call your attention to our Rule 114 concerning multiple zone completions. Such dual completions as this may be done only upon approval of the Commission after a formal hearing.

This letter is to advise that you must make application for this hearing and bring yourself into full compliance with Rule 114.

Production from more than one zone prior to this hearing will be considered as illegal production by this Commission.

Should you have any questions concerning the application of this Rule, or the necessary hearing, will you please advise.

Yours very truly,

John Bannister
Executive Secretary
mr

cc: Attorney General

1 - INSTRUCTIONS TO DELIVERING EMPLOYEE
 Deliver *ONLY* to addressee Show address where delivered
(Additional charges required for these services)

RETURN RECEIPT
Received the numbered article described on other side.

SIGNATURE OR NAME OF ADDRESSEE (must always be filled in)
Humble Oil & Refining Company

SIGNATURE OF ADDRESSEE'S AGENT, IF ANY
[Signature]

DATE DELIVERED **SEP 2 1965** ADDRESS WHERE DELIVERED (only if requested in item # 1)

C35-16-71548-4 GPO

POST OFFICE DEPARTMENT
OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE, \$300

POSTMARK OF
DELIVERING OFFICE

INSTRUCTIONS: Fill in items below and complete #1 on other side, when applicable. Moisten gummed ends and attach to back of article. Print on front of article. RETURN RECEIPT REQUESTED.

RETURN
TO

REGISTERED NO.

NAME OF SENDER

CERTIFIED NO.

(52)

OKS OKS CONSERVATION COMMISSION
STREET AND ROAD, PHOENIX, ARIZONA
1224 WEST ADAMS - SUITE 208
TELEPHONE 2743181
CITY, ZONE AND STATE, ZIP CODE

INSURED NO.

POD Form 3871 Jan. 1958

CS-16-71548-4

August 9, 1965

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

Attention: Mr. Roger S. Frazier

Re: Humble Oil & Refining #1 Navajo E well
SW/NE 10-41N-28E, Apache County, Arizona
Permit 58

Gentlemen:

We enclose our approval of the contemplated production of
this well for testing purposes.

Yours very truly,

John Bannister
Executive Secretary
MR
enc

August 6, 1965

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

Attention: Mr. Roger Frazier

Re: Humble Oil & Refining #1 Navajo E Well
SW/4NE/4 10-41N-28E, Apache County, Arizona
Permit 58

Gentlemen:

Enclosed for your information is a complete sample set of the forms currently in use by this Commission.

You will note that some of the forms, i.e. those pertaining to allowables, will not be currently in use. As you are aware, the State of Arizona does not have any proration requirements and the forms enclosed are forms adopted by the Commission in the event that production in the State ever reaches the point where it might constitute some form of waste.

In our conversation with Mr. Frazier we may have neglected to advise him to report the results of the gas-oil ratio test and potential test. However, it will be necessary that these be reported on FORMS 5 and 6.

Should you have any further questions, or if we may be of help at any time, please advise.

Yours very truly,

John Bannister
Executive Secretary
mr
enc

Will report on:
Form 4
5
6
8
25



SAMUEL P. GODDARD
GOVERNOR
LYNN LOCKHART
CHAIRMAN
R. KEITH WALDEN
VICE CHAIRMAN
ORME LEWIS
MEMBER
LUCIEN B. OWENS
MEMBER
GEORGE T. SILER
MEMBER

OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
ROOM 202
1624 WEST ADAMS
Phoenix, Arizona 85007
PHONE: 271-5181

JOHN BANNISTER
EXECUTIVE SECRETARY
J. R. SCURLOCK
PETROLEUM GEOLOGIST

August 6, 1965

Memo to: Commissioners
From: John Bannister, Executive Secretary
Re: Humble Oil & Refining #1 Navajo E well
SW/4NE/4 10-T41N-R28E, Apache County
Permit 58

Humble recently requested permission to open a new zone in the Hermosa formation inasmuch as the gas produced in this well did not have a sufficient pressure to buck the El Paso line.

Humble informed us today that the opening of this new zone has resulted in a new discovery of oil from the Hermosa formation.

In their initial test, 97 barrels of oil were recovered on a seven-hour test; the gas-oil ratio was 1100:1; the gravity was 40.5°.

Needless to say, Humble is quite excited over this. The well will currently go into a period of testing. Humble has been advised of the proper procedure with this Commission.

This will necessitate the flaring of some natural gas, which I have okayed. The flaring of this gas will be accurately reported to us by their monthly production report; and should at any time this flaring constitute waste, Humble will be so advised. I am sure that prior to such an occurrence Humble would of itself pressurize this gas so that it can be produced into the El Paso line.

mr

August 3, 1965

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

Re: Navajo Tribe #E1 well
SW/4NE/4 10-41N-28E, Apache County, Arizona
Permit 58

Gentlemen:

We are enclosing herewith our approval of the contemplated work to perforate and stimulate an additional pay zone in the Hermosa formation of the captioned well.

Upon completion of the work will you please file with this office a detailed report of the actual work done together with the results.

Your cooperation with this Commission is greatly appreciated.

Yours very truly,

John Bannister
Executive Secretary
BT
enc

March 26, 1965

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

Dear Mr. Bradley:

Pursuant to our telephone conversation today, this letter will constitute permission for Humble to flare gas on the Navajo E #1 well in the East Boundary Butte field of Apache County, Arizona, for a three-week period, beginning today.

Yours very truly,

J.R. Scurlock
Petroleum Geologist

nr

February 15, 1961

Mr. W. E. Bissett
Executive Secretary
State Tax Commission
Capitol Building
Phoenix 7, Arizona

Dear Mr. Bissett:

Enclosed are monthly producers reports for the month of January
1961 for the following:

Texas Pacific Coal & Oil Co., Navajo Tract 138, Dry Mesa Field,
Apache County, Arizona;

Texaco Inc., Navajo Tribe "Z", field undesignated, Apache
County, Arizona;

✓ Humble Oil & Refining Co., Navajo Tribe of Indians "E", East
Boundary Butte (Undesignated field), Apache County, Arizona.

Yours very truly,

D. A. Jerome
Executive Secretary

EW
Encs. (3)

HUMBLE OIL & REFINING COMPANY

POST OFFICE BOX 2347
~~Houston, Texas~~

Hobbs, New Mexico

February 2, 1961

Mr. D. A. Jerome
Oil and Gas Conservation Commission
State of Arizona
3500 N. Central, Suite 211
Phoenix, Arizona

Dear Mr. Jerome:

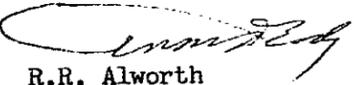
In answer to your letter dated January 26, 1961, regarding the Navajo Tribe of Indians E-1, East Boundary Butte Field, the GOR of 728 reported on Form O&G 65 for December 1960, was the result of a test taken immediately after workover. The 30-60 day test as reported in our letter of January 26, 1961, was taken January 21, 1961. Subsequent tests have indicated that the GOR of this well is increasing steadily. A test dated January 23, 1961, indicated a GOR of 8,060, and a test of January 25, 1961, indicated a GOR of 10,200.

The gas is being flared since no market is available in this area.

Effective February 1, 1961, all Humble operations in the Four Corners Area were transferred to the Durango District. Any further correspondence concerning Humble's production in Northeast Arizona should be directed to: Humble Oil & Refining Company, Box 3082, Durango, Colorado, Attn: Mr. B. M. Bradley.

Very truly yours,

HUMBLE OIL & REFINING COMPANY


R.R. Alworth
District Superintendent

BKB/df1

January 31, 1961

Mr. R. G. Tonkin
Humble Oil & Refining Co.
P. O. Box 2347
Hobbs, New Mexico

Dear Mr. Tonkin:

We have received your letter of January 26, 1961, regarding the 30-60 day test on Navajo Tribe E-1, East Boundary Butte Field. We are a little confused to ascertain which gas/oil ratio is correct, the one shown in your letter, which is 4,312 on a 3/16" choke, or the one shown in your verified report, Form O&G 65, in which you show Gas-Oil Ratio 728.

It would be appreciated if you would advise us what the correct gas/oil ratio is on the above well and whether you will have to flare the gas as indicated on your report in order to produce the well, as it seemingly indicates in your letter.

Yours very truly,

D. A. Jerome
Executive Secretary

DAJ/ew

HUMBLE OIL & REFINING COMPANY

Hobbs, New Mexico
January 26, 1961

Re: 30-60 Day Test,
Navajo Tribe of
Indians E-1, East
Boundary Butte Field

Mr. D. A. Jerome
Oil and Gas Conservation Commission
State of Arizona
3500 N. Central, Suite 211
Phoenix, Arizona

Dear Sir:

In reference to telephone conversation of this date, a 48-hour test was taken on Navajo Tribe of Indians E-1, East Boundary Butte Field on January 21, 1961. The well produced 195 barrels of oil, 840.90 Mcf of gas with a gas-oil ratio of 4,312 on 3/16-inch choke, tubing pressure of 650 pounds.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

R. G. Tonkin
R. G. Tonkin

/mcb

cc:File

January 16, 1961

Mr. W. E. Bissett
Executive Secretary
State Tax Commission
Capitol Building
Phoenix 7, Arizona

Dear Sir:

Enclosed are the monthly producers reports for the following:

Texas Pacific Coal & Oil Company, Navajo Tract 138, Dry Mesa
Field, Apache County;

Humble Oil & Refining Company, Navajo Tribe of Indians "E",
East Boundary Butte, Apache County;

Texaco Inc., Navajo Tribe "Z", field undesignated, Apache
County.

Yours very truly,

D. A. Jerome
Executive Secretary

EW
Enclosures: Monthly producers reports
(3)

December 16, 1960

Mr. W. E. Bissett
Executive Secretary
State Tax Commission
Capitol Building
Phoenix 7, Arizona

Dear Mr. Bissett:

Enclosed are monthly producer's reports for the following:

Texas Pacific Coal & Oil Co.; Navajo Tract 138, Dry Mesa
Field, Apache County, Arizona

Texaco Inc.; Navajo Tribe "Z"; Apache County, Arizona

Humble Oil & Refining Co.; Navajo Tribe of Indians "E";
Apache County, Arizona.

Each of these enclosed reports is for the month of
November 1960.

Yours very truly,

D. A. Jerome
Executive Secretary

By
W. F. Maule
Petroleum Engineer

sw
Enclosures (3)

C
O
P
Y

December 8, 1960

Humble Oil & Refining Company
P. O. Box 2347
Hobbs, New Mexico

Gentlemen:

Enclosed is your approved copy of Form O&G 57, Producers Certificate of Compliance, regarding Navajo Tribe "E", well #1, Sec. 10, T. 41North, R. 28East, Apache County, Arizona.

We are sending an approved copy of this form to McWood Corporation field office, Box 1702, in Farmington, New Mexico.

Yours very truly,

D. A. Jerome
Executive Secretary

W. F. Maule
Petroleum Engineer

Arizona Gets Its Fifth Producing Oil Well

RECOMPLETION of Humble Oil Co.'s Navajo E No. 1 well has given Arizona and Apache County their fifth producing oil well, the state oil and gas department announced yesterday.

The department disclosed that a flow of 445 barrels per day, with a gas-oil ratio of 778 cubic feet per barrel, resulted from frac treatment of two sections of the Humble well in Section 9 of Township 41 North, Range 28 East, on the Navajo Indian Reservation.

Gravity of the oil is 41.6 (API) and the flow pressure 650 pounds.

The well sections treated were from 4,518 feet to 4,558 feet and from 4,594 feet to 4,644 feet. The treatment consisted of 10,000 gallons of lease oil and 10,000 pounds of sand pumped through perforations in each section at a rate of 15 barrels a minute in the

upper section and 17 barrels a minute in the lower section.

Prior to treatment, the well had been shut in because of a high gas-oil ratio.

Oil from the well will be trucked by McWood Corp., to the Red Mesa station of the Four Corners Pipeline Co., along with the output of three Texas Pacific Coal and Oil Co. oil wells, and one Texaco oil well in Apache County.

58 58

December 8th, 1960

McWood Corporation
Box 1702
Farmington, New Mexico

Gentlemen:

Enclosed is an approved copy of our Form O&G 57,
which is your authorization to transport oil from
Humble Oil Company Navajo Tribe "E", well #1, in
Section 10, T. 41N, R. 28E, Apache County, Arizona.

Yours very truly,

D. A. Jerome
Executive Secretary

B. F. Maule
Petroleum Engineer

ew
Enclosure

October 27th, 1960

Humble Oil & Refining Co.
Box 2347
Hobbs, New Mexico

Attention: Mr. R.R. Alworth

Dear Mr. Alworth:

Enclosed is your approved copy of Application to Perforate.

Thank you very much.

Yours very truly,

W. F. Maule
Petroleum Engineer

WFM/ew
Enclosure

October 21, 1960

Humble Oil & Refining Co.
P. O. Box 2347
Hobbs, New Mexico

Gentlemen:

Enclosed are the forms which you requested per telephone conversation today.

Emergency authorization granted this date to re-enter your Navajo E-1.

Yours very truly,

D. A. Jerome
Executive Secretary

WFM/ew
Enclosures

HUMBLE DIVISION
HUMBLE OIL & REFINING COMPANY
POST OFFICE BOX 2180
HOUSTON 1, TEXAS

January 12, 1960

State of Arizona
Oil and Gas Conservation Fund
Phoenix, Arizona

Gentlemen:

Effective December 1, 1959, Humble Oil & Refining Company, a Texas corporation, sold, transferred, and assigned all of its assets, real, personal, or mixed, wherever located, to Humble Oil & Refining Company, a Delaware corporation, and at the same time the Delaware corporation assumed all of the obligations of the Texas corporation.

In this connection, Humble (Delaware) has been substituted for Humble (Texas) as principal under bond(s) of which you are the obligee as listed in the attached consent instrument. By this instrument, Surety under each of the bonds described therein consents to be bound by the terms and provisions of the bond with Humble Oil & Refining Company (a Delaware corporation) substituted as principal thereunder.

This is for your information and files.

Yours very truly,

HUMBLE OIL & REFINING COMPANY



Administrative Services Manager
Production and Exploration Departments

MDM:ibl
Attachment



HUMBLE OIL & REFINING COMPANY

POST OFFICE BOX 2180
HOUSTON 1, TEXAS

December 2, 1959

Oil and Gas Conservation Commission
422 State Office Building
Phoenix, Arizona

Attention: Mr. Obed M. Lassen

Gentlemen:

In compliance with your regulations, we are transmitting herewith for filing an organization report for Humble Oil & Refining Company, a Delaware corporation. Effective December 1, 1959, Humble Oil & Refining Company (a Texas corporation) transferred and conveyed all of its assets, properties and business to a new company, Humble Oil & Refining Company (a Delaware corporation), and Humble (Delaware) assumed all of the obligations and liabilities of Humble (Texas) and succeeded as owner to all rights and ownership in and to all of the leases, contracts and properties formerly owned by Humble (Texas).

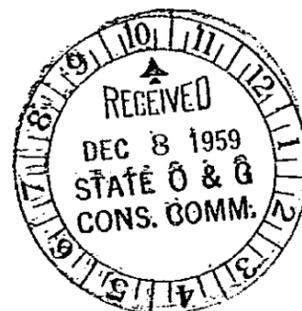
Yours very truly,

S. F. HOLMESLY, Conservation Coordinator,
Humble Division of Humble Oil & Refining
Company (a Delaware corporation)

By


C. D. Ehrhardt, Jr.

CES:aws
Attachment



October 21, 1959

Mr. S. F. Holmesly
Humble Oil & Refining Company
P. O. Box 2180
Houston 1, Texas

Dear Mr. Holmesly:

This is to acknowledge receipt of your recent Producer's Monthly Reports, for which we thank you.

We note that your mail is addressed, however, to the State Land Commission, Room 422, Arizona State Office, Phoenix, which is incorrect. Would you kindly change your records, so that all mail is addressed to the above correct address.

Thank you for your cooperation in our behalf.

Yours very truly,

D. A. Jerome
Executive Secretary

DAJ/mmr

October 22, 1958

McWood Corporation
364 Petroleum Building
Abilene, Texas

Attention: Mr. Sid Bennion

Dear Mr. Bennion:

Reference is made to our telephone conversation of October 22, 1958, regarding our Form OG 57 and 58. We are mailing to you this date, under separate cover, thirty-five copies of Form 58, Transporters and Storers Monthly Report.

Our files show that your firm's copy of Form 57 was sent to the Farmington field office by cover letter dated September 16, 1958. Enclosed is a copy of this letter and a copy of the executed Form. In the future such material will be sent to you in Abilene unless we receive instructions to the contrary.

Two sets of Oil and Gas Conservation Rules are being forwarded with the supply of forms mentioned above.

If we may be of further assistance, please call on us.

Very truly yours,

STATE LAND COMMISSIONER

By: Frederick C. Ryan,
Supervisor,
Oil and Gas Conservation

FCR:mb

September 16, 1958

McWood Corporation
Box 1702
Farmington, New Mexico

Gentlemen:

Transmitted herewith is your copy of the approved authorization to transport oil or gas from Humble Oil and Refining Company Navajo-Tribal E-1, located in Section 10, Township 41 North, Range 28 East, Apache County, Arizona.

This authorization is valid until further notice to you by the Humble Oil and Refining Company, or until cancelled by the State Land Commissioner.

Very truly yours,

STATE LAND DEPARTMENT

By: Frederick C. Ryan,
Supervisor,
Oil and Gas Conservation

FCR:mb
Encl.

September 16, 1958

Mr. Russell M. Lilly,
District Superintendent,
Humble Oil & Refining Company
Box 1268
Farmington, New Mexico

Dear Mr. Lilly:

Transmitted herewith is your copy of the approved Producers Certificate of Compliance and Authorization to Transport Oil or Gas from the Drilling Unit for your Navajo-Tribal E-1 in Section 10, Township 41 North, Range 28 East, Apache County, Arizona.

An approved copy of this form is being forwarded this date to McWood Corporation at Farmington, New Mexico.

If we may be of further service, please call on us.

Very truly yours,

STATE LAND COMMISSIONER

By: Frederick C. Ryan,
Supervisor,
Oil and Gas Conservation

FCR:mb
Encl.

HUMBLE OIL & REFINING COMPANY

Farmington, New Mexico
September 8, 1958

File: 6-1, Sale of Production
Oil from Navajo Tribe "E" No. 1

Mr. F. C. Ryan
Arizona State Land Department
State Office Building
Phoenix, Arizona

Dear Mr. Ryan:

Confirming our telephone conversation of September 4, 1958, we have sold 94.06 barrels of net production oil to the McWood Corporation from our No. 1 Navajo Tribe "E" well which is now being drilled in Apache County, Arizona.

The movement of this oil was necessary to prevent waste, as a leak had developed in the bottom of a 400 bbl. test tank, which had been damaged in shipment to the location.

The proper report, O&G-57 - Producer's Certificate of Compliance, will be prepared and forwarded to you as soon as the forms are received from your office.

Sincerely yours,

Russell M. Lilly
Russell M. Lilly, Dist. Sup't.
HUMBLE OIL & REFINING COMPANY
Box 1268
Farmington, New Mexico

RML/cas

Orig. & cc: Mr. F. C. Ryan
cc: Mr. S. F. Holmesly
cc: Mr. W. H. Dick, Jr.
cc: Mr. R. R. McCarty
cc: W/P-1164
cc: File

Attach.

McWOOD CORP
 Date 7-3-58 Ticket No **103026**
 Owner Humble Oil & Ref Co
 Lease NALH TO E!
 Field ...

Lease No. _____ For Account Of _____

TANK NO.	1st Meas.	FEET	INCHES	TEMPERATURE OF OIL IN TANK
<u>700</u>		<u>5</u>	<u>5</u>	<u>82</u> °F
SIZE	2nd Meas.			B. S. & W.
<u>300</u>		<u>0</u>	<u>8</u>	<u>1</u> / 10%

BY HYDROMETER	OBSERVED GRAVITY	TRUE GRAVITY	OFF SEAL NO.	TIME TURNED ON
	TEMPERATURE		ON SEAL NO.	TIME SHUT OFF
	<u>1.85</u>			<u>7:41</u>
	<u>82</u>			<u>7:41</u>

BOTTOM THIEFING	B.S. & W.	ACCOUNTING OFFICE USE
	FEET INCHES	
FIRST MEASURE	<u>04</u>	
SECOND MEASURE	<u>04</u>	<u>94.06</u>

OIL MOVED BY ... TRUCK NUMBER ...
 TO RECEIVING POINT ...
 GAUGER ...
 WITNESS ...
 GAUGER ...
 WITNESS ...

September 4, 1958.

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

Attention: Mr. R. R. McCarty
Division Superintendent

Dear Mr. McCarty:

We are pleased to transmit herewith permit fee receipt and approved copy of your Notice of Intention to Drill, dated July 31, 1958, covering Humble Oil & Refining Company - Navajo Tribal - E #1, Section 10, Township 41 N, Range 28 E, Apache County, Arizona. This executed copy constitutes your Permit No. 58, dated August 28, 1958.

Our heartiest congratulations on the developments of the past few days, news of which was conveyed by Mr. Lilly and Mr. Wiseley of your Farmington office.

At Mr. Wiseley's request we are transmitting to your office under separate cover one hundred copies of Form OG 51, Notice of Intention to Drill.

If we may be of further assistance please call on us.

Yours very truly,

STATE LAND COMMISSIONER

By: Frederick C. Ryan
Supervisor
Oil & Gas Conservation

FCR:sw
encl.

8/12/58

If approval comes from McGrath
on their casing program, ok with us.

Jim Wiseley of Humble in a phone conversa-
tion with Fritz said he had talked with
Phil and that the above would be okay.

↑ 8-8-58

Everything okay except final approval on
casing program - elevation.

Sent original for Phil's approval 8/12/58.

HUMBLE OIL & REFINING COMPANY

WESTERN DIVISION
P. O. BOX 1600

MIDLAND, TEXAS

July 31, 1958

Inre: Notice of Intention to Drill
Navajo Tribe of Indians "E" No. 1
File: 6-1

R. R. MCCARTY
DIV. SUPERINTENDENT
L. H. BYRD
ASST. DIV. SUPERINTENDENT
H. L. HENSLEY
ASST. DIV. SUPERINTENDENT
H. E. MEADOWS
ASST. DIV. SUPERINTENDENT
J. W. GRAYBEAL
DIV. PETROLEUM ENGINEER
R. A. ESTES
DIV. CIVIL ENGINEER

State Land Department
State of Arizona
Phoenix, Arizona

Gentlemen:

Please find enclosed copies of Form 1, Form 2, and filing fee on Humble Oil & Refining Company's Navajo Tribe of Indians "E" Well No. 1, located 2310 feet from the North and 1980 feet from the East Lines of Section 10, T-41-N, R-28-E, Apache County, Arizona.

Your approval at an early date will be appreciated.

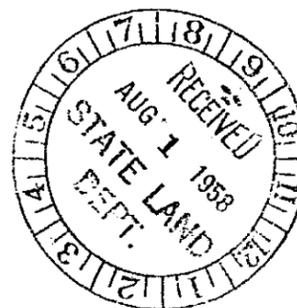
Very truly yours,


R. R. MCCARTY

WHN:bw

Enc.

11733



Arizona Oil

Arizona Republic
August 11, 1958

Development Of Famed Paradox Basin Told

Development of the famed Paradox oil basin of Four Corners southward into Arizona's East Boundary Butte field has been announced by Humble Oil and Refining Co.

Construction of access roads in the Apache County area already has been started and Humble has announced it will drill its No. 1-E Navajo as a 2,000-foot test of the Paradox in Section 10, T-41-N, R-28-E.

The proposed drillsite is a mile southeast of an Arizona producer and 2 1/4 miles southeast of Red Mesa Trading Post.

THE TEST is termed an extension from East Boundary Butte-Paradox within Arizona, which includes Humble's No. 1 Navajo and two gasers drilled by Shell Oil Co.

East Boundary Butte to date has been deemed principally a gas field, but the new test is expected to determine the field's potential. This is shown by the fact that Humble's oil well was completed lower in the Paradox formation than the Shell

well, and Humble's produces only in a 10-foot section between 4,806 and 4,816 feet. It is capable of 47 barrels of oil and 4,141,000 cubic feet of gas daily.

Shell's well has a potential of 3,100,000 cubic feet of gas daily.

Franco-Western Oil Co., south of Humble's location, also has a gas producer.

OF additional interest in Arizona is Humble's wildcat test in southwest Hidalgo County, New Mexico, only a few miles from Sterling Oil's farmout in southeastern Arizona.

This Humble wildcat, on a drillstem test last week at from 4,190-4,219 feet, had gas reach the

surface in 32 minutes at the rate of 10,250 cubic feet per day. The recovery was 17 feet of gas-cut mud. Flowing pressure was 54 pounds and shut-in pressure after 24 hours was 1,570 pounds.

Unusual in the test is that drilling has been in Permian formation from 3,937 feet to 4,219, and that the wildcat already is 2,500 feet deeper than any well previously drilled in Hidalgo County.

L. A. THOMSON and Robert Manly, drilling on Sterling's farmout of some 50,000 acres in the extreme southeast corner of Arizona, which is east of Humble's southwest New Mexico test, are reported to have had some shows even prior to 1,000 feet.

Porosity hindered and a temperature is reported to be a problem with equipment. This is to be solved by drills, it is said.

