

P-W

Humble Oil & Ref. Co. Navajo - E  
SW/4-NE/4 Sec. 9-T41N-R28E  
Apache County

65

County Apache

Area East Boundary Butte

Lease No. 14-20-603-412

Well Name Humble Oil & Refining Company 2 Navajo-E

Location SW NE Sec 9 Twp 41N Range 28E Footage 1980 FNL 1980 FEL  
Elev 5527 Gr 5536 RKB KB Spud 9-26-58 ~~Completed~~ Abandon 12-23-58 Total Depth 6520  
4950 PBTB

Contractor \_\_\_\_\_

Casing Size	Depth	Cement	Drilled by Rotary <u>X</u>
<u>9 5/8</u>	<u>1008'</u>	<u>475</u>	Cable Tool _____
<u>7</u>	<u>4949'</u>	<u>250</u>	Production Horizon _____
			Initial Production <u>P &amp; A</u>

REMARKS Humble furnished structural cross section (comparative) log dated  
11-10-66 on 1-31-69. See log file #28 and East Boundary Butte File.  
See permit #444.

Elec Logs IE; Radioactivity; Caliper Sample Log Am Strat  
Applic. Plugging Completion Sample Descript. \_\_\_\_\_  
to Plug Record X Report X Sample Set 1791  
Core Analysis \_\_\_\_\_  
DSTs \_\_\_\_\_

Water well accepted by \_\_\_\_\_

Bond Co. The American Insurance Company Bond #5-10-11-58

Bond Am't \$ 25,000 Cancelled 11-29-65 Date Organization Report X

Filing Receipt 71085 Dated 9-22-58 Well Book X Plat Book X

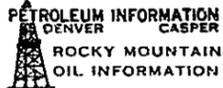
API No. 02-001-20067 Loc. Plat X Dedication W/2 NE

Permit Number 65 Date Issued 9-23-58

*See 444 for re-entry*



ARIZONA  
APACHE COUNTY  
BOUNDARY BUTTE, E. <sup>65</sup>



Twp 41n-28e  
Section 9  
c sw ne  
1980 s/n 1980 w/e

OPR: Humble Oil & Refining

WELL #: 2 Navajo "E"

ELEV: 5536 DF.

\*TOPS: Log ~~XXXXXX~~

Cutler 2210  
Coconino 2260  
Hermosa 4202  
Paradox 4912  
Molas 5850  
Leadville 5998  
Ouray 6180  
Elbert 6322

DSTS. & CORES:

DST 4264-4330, 2 hrs,  
gas flowed in 17 min @  
est 41 MCFPD, rec 224  
GCM, 120 GC filtrate  
wtr, FP 71-126#, SIP  
(30 min) 1367#. DST  
4574-4629, 2 hrs, gas  
in 24 min, too small to  
measure, rec 415 HO CM,  
FP 157-189#, SIP (30

SPUD: 9-27-58

COMPL: 12-30-58

ID: 6520

PB: 4950

CSG: 9-5/8" @ 1808 w/475  
5 1/2" @ 4949

PERF: 4810-54; acidized.

Contr: Rutledge

PROD. ZONE:

min) 220#, HP 2303#. Crd 4680-4730, rec 50 sh, sd &  
ls, trace fluor. DST 4680-4730, 1 1/2 hrs, rec 30 mud, FP  
32#, SIP (30 min) 37#, HP 2350#. Crd 4730-4772, rec  
42 ls, sd & sh, no show. Crd 4802-4836, rec 34 ls w/small  
oil show in fractures on bottom. Crd 4836-4855, rec 19  
dense ls, no show. DST 4800-4855, 1 1/2 hrs, rec 140 O&GCM, FP 50-60#, SIP (30 min) 300#, HP  
2350#. DST 4799-4905, 2 hrs, rec 10 HO CM, 95 OCM, FP 100#, SIP (30 min) 700#. DST 4960-85,  
1 hr, rec 50 mud, DST 4990-5025, 1 hr, rec 80 sli OCM, 100 mud, FP 50-75#, SIP (30 min) 550#,  
HP 2500#. DST 5222-40, 2 hrs, rec 2900 sli GCM, FP 350-1400#, SIP (30 min) 1550#, HP 2600#.   
DST 5400-5425, 2 hrs, gas in 15 min, too small to measure, rec 180 mud, 4575 GC sulfur wtr, FP  
400-1750#, SIP (30 min) 1850#, HP 2750#. (over)

\*For Electric Logs on Rocky Mountain Wells—Ask Us! Log #21677

A1-952110

HUMBLE OIL & REFINING #2 NAVAJO "E", c sw ne 9-41n-28e, APACHE COUNTY, ARIZONA - 2

DST 6068-6120, 1½ hrs, r <sup>6130</sup> 40' mud, 4042 sulfur & GC salt wtr. DST 64 <sup>6450</sup> 507, 2 hrs, rec 510  
mud, no show, FP 285-332#, SIP (30 min) 585#, HP 3309#. DST 6500-6520, 2 hrs, rec 285' mud,  
3313-sulfur wtr, FP 500-1500#, SIP (30 min) 1550#, HP 2750#. 4550' SW

10 1550' - 5026 285' m + 3313' SW 420

**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**

Federal, State or Indian Lease Number or name of lessor if fee lease: **Navajo Tribe of Indians "E" - 14-20-603-412** Well Number: **2** Field & Reservoir: **East Boundary Butte - Dry**

Location: **1980' FNL & 1980' FEL** County: **Apache, Arizona**

Sec. TWP-Range or Block & Survey: **Sec. 9-41N-28E**

Date spudded: **9-26-58** Date total depth reached: **11-12-58** Date completed, ready to produce: **Dry** Elevation (DF, RKB, RT or Gr.) feet: **RKB - 5536** Elevation of casing hd. flange feet: **5526**

Total depth: **6520** P.B.T.D.: **D&A** Single, dual or triple completion?: **-** If this is a dual or triple completion, furnish separate report for each completion: **-**

Producing interval (s) for this completion: **-** Rotary tools used (interval): **Surface to 6520** Cable tools used (interval): **None**

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): **GRN; ES Ind. & Contact Caliper** (If you do not have copies of these, please advise & we CASING RECORD will get copies made for you). Date filed: **-**

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Surface	13-3/4"	9-5/8"	36#	1008'	475	None
Production	8-3/4"	7"	23# & 20#	4949'	250-	None
Top of cement behind 7" casing at 3570' by temperature log.						

TUBING RECORD				LINER RECORD			
Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
in.	ft.	ft.	in.	ft.	ft.		
None							Squeezed

PERFORATION RECORD							
Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval	Squeezed		
2	Jet Karrot	4810-4854	1000 MA & 17430 gal & 17430# Sand	4810-4854	50		
2	" "	4668-4722	1000 MA & 21000 gal & 21000# "	4668-4722	75		
2	" "	4596-4632	5000 gal Dowell X	4596-4632	75		

INITIAL PRODUCTION

Date of first production: **None** Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)

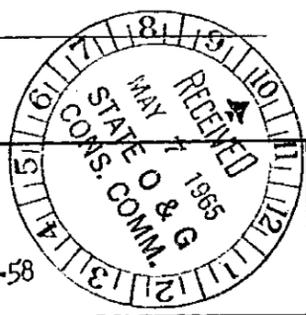
Date of test	Hrs. tested	Choke size	Oil prod. during test	Gas prod. during test	Water prod. during test	Oil gravity
			bbls.	MCF	bbls.	API (Corr)

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

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

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

Date: **May 5, 1965** Signature: **B. M. Bradley**



Permit No. **65 dated 9-23-58**

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*
<p>SEE ATTACHED TWO SHEETS FOR FORMATION RECORD, HISTORY OF WELL, DRILL STEM TESTS AND CORE INFORMATION.</p>			

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

**INSTRUCTIONS:**

Attach drillers log or other acceptable log of well.

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

Form No. 4

PLUGGING RECORD					
Operator <b>HUMBLE OIL &amp; REFINING COMPANY</b>			Address <b>P. O. Box 120, Denver, Colorado 80201</b>		
Federal, State, or Indian Lease Number. Navajo Tribe or lessor's name if fee lease. of Indians "F" - 14-20-603-412		Well No. <b>2</b>	Field & Reservoir <b>East Boundary Butte - Dry</b>		
Location of Well <b>1980' FNL &amp; 1980' FEL of Sec. 9-41N-28E</b>				Sec-Twp-Rge or Block & Survey <b>Apache</b>	
Application to drill this well was filed in name of <b>Humble Oil &amp; Refining Company</b>		Has this well ever produced oil or gas <b>No</b>	Character of well at completion (initial production): Oil (bbls/day) <b>-</b> Gas (MCF/day) <b>-</b> Dry? <b>Yes</b>		
Date plugged: <b>12-23-58</b>		Total depth <b>6520'</b>	Amount well producing when plugged: Oil (bbls/day) <b>-</b> Gas (MCF/day) <b>-</b> Water (bbls/day) <b>-</b>		
Name of each formation con- taining oil or gas. Indicate which formation open to well- bore at time of plugging	Fluid content of each formation	Depth interval of each formation	Size, kind & depth of plugs used Indicate zones squeeze cemented, giving amount cement		
<b>Hermosa 4210-4950</b>	<b>Slight shows of Oil</b>	<b>4210-4950</b>	<b>6520-6220 w/ 125 sx</b>		
<b>Paradox 4950-5618</b>	<b>&amp; Gas</b>	<b>4950-5618</b>	<b>6170-5970 w/80 sx</b>		
			<b>5600-5350 w/100 sx</b>		
			<b>5050-4925 w/50 sx</b>		
			<b>4950-4916 in bottom of 7" Csg.</b>		
			<b>Perf Squeezed-4810-4854 50 sx</b>		
			<b>Perfs Squeezed-4668-4722 75 sx</b>		
			<b>(56' cement above top of Perfs) Squeezed-4596-4632 75 sx</b>		
<b>CASING RECORD</b>					
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
<b>9-5/8"</b>	<b>994'</b>	<b>None</b>	<b>994'</b>	<b>-</b>	<b>Cemented to surface</b>
<b>7"</b>	<b>4938'</b>	<b>None</b>	<b>4938'</b>	<b>-</b>	<b>Top of cement behind 7" casing at 3570' by temp. survey.</b>
Was well filled with mud-laden fluid, according to regulations? <b>Yes</b>				Indicate deepest formation containing fresh water. <b>Goconino - 2260' to 2290'</b>	
<b>NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE</b>					
Name	Address		Direction from this well:		
<b>Humble Oil &amp; Ref. Co.</b>	<b>P. O. Box 120, Denver, Colorado</b>		<b>N-Sec. 4; S-Sec. 16 &amp; E-Sec. 10.</b>		
<b>Shell Oil Company</b>	<b>Farmington, New Mexico</b>		<b>NE - Sec. 3</b>		
<b>Section 8, to the West was dropped by Humble in 1952</b>					
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, and name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and assuming full liability for any subsequent plugging which might be required.					
<b>NONE</b>					
Use reverse side for additional detail.					
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the <b>Area Operations Supt.</b> of the <b>Humble Oil &amp; Refining Company</b> (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 <b>May 5, 1965</b>		Signature <i>B. M. Bradley</i> <b>B. M. Bradley</b>			
Permit No. <b>65 dated 9-23-58.</b>			STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Plugging Record File One Copy		
			Form No. 10		

# HALLIBURTON RESEARCH AND TESTING LABORATORIES

Lubbock Division Laboratory  
Lovington, New Mexico

MAINTAINED BY HALLIBURTON OIL WELL CEMENTING CO.

No. WT 541

## WATER ANALYSIS

Date 8-17-60

To Humble Oil & Refining Co.  
Room 119, Pet. Center Bldg.  
Farmington, N.M.  
Source DST #1

Well & Lease Navajo Tribe #2  
Location C-SW-NE-9-41N-28E  
Formation \_\_\_\_\_  
Depth \_\_\_\_\_

Specific gravity 60/60 °F	1.048
Color, filtrate	clear
pH	7.0
Resistivity 79 °F ppm	0.12
Chlorides, Cl	42,900
Sulfates, SO <sub>4</sub>	1,400
M Alkalinity HNO <sub>3</sub>	1,775
Calcium, Ca	2,720
Magnesium, Mg	985
Iron, Fe	negl.
Sodium, Na*	24,100
Sulfides, H <sub>2</sub> S	170

### Remarks:

cc: Ray Tippit, Halliburton Co., Farmington, N.M.

H.L. Beckmann, Humble Oil & Refining Co., Midland, Texas

ppm equals Parts per million uncorrected or milligrams per liter  
\* includes Potassium as Na.

Laboratory Analyst

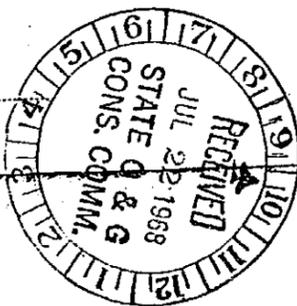
M.A. Carter

Respectfully submitted

Halliburton Oil Well Cementing Co.

By

Ma Carter



NOW  
HALLIBURTON COMPANY

21-47

HUMBLE OIL & REFINING COMPANY  
HUMBLE DIVISION  
SERVICE LABORATORY

Laboratory No. 43418

WATER ANALYSIS

Houston, Texas  
October 24, 1960

COUNTY	Apache County, Arizona	DATE SAMPLED	August 15, 1960
FIELD	East Boundary Butte	DATE RECEIVED	October 14, 1960
WELL	Navajo Tribe of Indians 2 C-SW-NE-9-41N-28E	SUBMITTED BY	
DEPTH	5,395-421 Feet	WORKED BY	F. L. Galloway
FORMATION	Lower Hermosa	SOURCE	Drill Stem Test
OWNER	Humble Oil & Refining Co.		

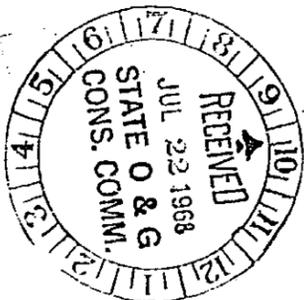
Analysis		Comparison Data	
Radicals	Parts Per Million		Percent
Sodium	25,954	Primary Salinity	74.90
Calcium	5,147	Secondary Salinity	24.00
Magnesium	1,471	Primary Alkalinity	None
Chloride	52,302	Secondary Alkalinity	1.10
Sulfate	210	Chloride Salinity	98.87
Bicarbonate	1,014	Sulfate Salinity	1.13
Carbonate	None		
TOTAL	86,696		
Hydrogen Sulfide	152		
Iron, Total	95		
Calcium Carbonate Stability			

Ratios	
Chloride: Bicarbonate	88.64
Bicarbonate: Sulfate	0.99
Calcium: Magnesium	2.13
Sodium: Calcium & Magnesium	2.98
Specific Gravity at 76 °F.	1.0605
Resistivity, ohm meters at 76 °F.	0.090
pH	6.3

cc: Mr. R. R. McCarty  
 Mr. J. W. Graybeal  
 Mr. A. L. Carpenter  
 Mr. W. A. Maley  
 Mr. R. W. Bybee  
 Dr. H. N. Fisk  
 Dr. C. R. Hocott

D14827 (6-60)  
rb



By..... Ralph K. Hill  
 Laboratory Supervisor

ORIGINAL MAILED

OCT 25 1960



67

6

Navajo Tribe of Indians "E" Well No. 2 - Apache County, Arizona.

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0	2735	2735	Sand & Shale (2210' top of Cutler-Rico)
2735	3153	418	Shale
3153	3393	240	Shale & Lime Streaks (2260' top of Coconino)
3393	3609	216	Shale & Sand (2619' top of Organ Rock)
3609	3955	346	Shale
3955	4282	327	Shale & Lime (4210' top of Hermosa)
4282	4373	91	Shale
4373	4506	133	Shale & Lime with Chert
4506	5643	1137	Shale & Lime (4950' top of Paradox)
5643	5749	106	Lime & Chert (5618' top of Lower Hermosa)
5749	6130	381	Shale & Lime (5850' top of Molas) (6000' top of Leadville)
6130	6208	78	Shale & Lime w/streaks of chert (6180' top of Curay)
6208	6421	218	Shale & Lime (6322' top of Elbert)
6421	6510	89	Dolomite with streaks of Shale & Lime.
6510	6520 TD	10	Dolomite & Sand

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

This well was drilled with Rotary Tools to a total depth of 6520'. At 1014', 31 jts. of 9-5/8" casing, 994', was set at 1003'. Cemented with 325 sx of 4% Gel Cement & 150 sx Neat cement. POB 8:00 AM, 9-28-58. Tested casing with 1200# and tested OK (30 min. test). Drilled plug at 2:00 AM 9-29-58, and drilling continued to total depth of 6520'. Cement plugs were placed from 6520' to 6220' using 125 sx., POB 2:40 PM, 11-15-58; 6170' to 5970' using 80 sx., POB 3:15 PM; 5600' to 5350' using 100 sx., POB 3:55 PM; 5050' to 4925' using 50 sx., POB 4:30 PM. On 11-16-58, drilled hard cement to 4950'. On 11-17-58, 129 jts. of 7" casing, 4938', was set at 4949' and was cemented with 250 sx, Reg. Neat cement. Complete returns and rotated pipe while cementing. Ran Temp. survey and found top of cement at 3570'. Tested casing with 1200# for 30 mins. and tested OK. Logs were run and casing was perforated from 4810' to 4854' with 2 jets per foot. Acidized with 1000 gal. mud acid, avg. inj. rate of 3 bbls. per min. Fraced with 17,430 gal. crude oil and 17,430# sand with 220 gal. Dowell J-90 added, avg. inj. rate of 32 bbls. per min. at 2250#. Well was swabbed in an attempt to start flow. A cement retainer was set at 4753' and perforated from 4810' to 4854' were squeezed with 50 sx. neat cement. Perf. from 4663' to 4722' with 2 jet shots per ft. Acidized with 1000 gal. mud acid at avg. inj. rate of 3 bbls. per min. at 900#. Opened up well and flowed 9 bbls. in 2 hrs. Swabbing was begun and in 18 hrs. recovered 28 bbls. fluid, 20% acid water; 30% acid water in the last 12 hrs. of swabbing. Well was swabbed dry. Sand oil fraced with 21,000 gal. crude oil and 21,000# sand, avg. inj. rate of 40 bbls. per min., at 1700#. Well was shut in overnight. Opened up well and in the first 24 hrs. well flowed 197 bbls. load oil. Well sanded up and was sand pumped. Swabbing operations were begun and recovered 406# bbls. load oil, and was swabbed dry. A cement retainer was set at 4652' & part. from 4663' to 4722' were squeezed off with 75 sx reg. cement at 2600# pressure. Perforated from 4596' to 4632' with 2 jet shots per foot. Acidized with 5000 gal. mud acid. Swabbing was begun and recovered 111 acid water. Set cement retainer at 4540' and squeezed off perforations from 4596' to 4632' with 75 sx reg. cement at 2800# pressure. 56' of cement in casing above top perforations. Dumped 5' cement plug in top of 7" casing. Well abandoned on 12-23-58. Casing in well - 9-5/8" and 7".

PEOPLE MET COMMISSION


LOG OF OIL OR GAS WELL



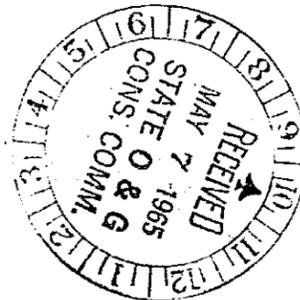
#65

Humble Oil & Refining Company  
Navajo Tribe of Indians "E" Well No. 2

DRILL STEM TESTS

Date	Type	Formation Tested		Choke		Minutes Tool Open	For. Pressure		Recovery	Test Satisfactory
		From	To	Top	Bottom		Flow.	Shut In		
10-11-58	OH	4264	4330	1"	1"	120	126	1367	(a)	Yes
10-14-58	OH	4574'	4629	1"	1"	120	189	220	(b)	Yes
10-16-58	OH	4680	4730	1"	1"	90	32	37	(c)	Yes
10-19-58	OH	4800	4855	1"	3/4"	90	60	700	(d)	Yes
10-21-58	OH	4799	4905	1"	3/4"	120	100	700	(e)	Yes
10-23-58	OH	4960	4985	1"	3/4"	60	50	200	(f)	Yes
11-6-58	OH	6068	6130	1"	3/4"	90	1775	1800	(g)	Yes
11-11-58	OH	6450	6501	1"	1"	120	332	585	(h)	Yes
11-12-58	OH	6500	6520	1"	3/4"	90	2100	2175	(i)	Yes
11-13-58	OH	5506'	5526	1"	3/4"	120	1500	1550	(j)	Yes
11-13-58	OH	5400	5425	1"	3/4"	120	1750	1800	(k)	Yes
11-13-58	OH	5222	5240	1"	3/4"	120	1400	1550	(l)	Yes
11-15-58*	OH	4990	5025	1"	3/4"	60	75	550	(m)	Yes

- (a) 240' gas cut mud, 120' water & gas cut mud, 90' gas. Gas to surface in 17 mins.
- (b) 415' Hvy. oil & gas cut mud. Gas to surface in 24 mins., too small to measure.
- (c) 30' drilling mud. No show.
- (d) 140' Oil & Gas cut mud.
- (e) 10' hvy. oil cut mud, and 95' oil cut mud.
- (f) 50' drilling mud. No shows.
- (g) 90' drilling mud and 4042' sulphur & gas cut salt water.
- (h) 510' drilling mud. No shows.
- (i) 4550' salt water.
- (j) 285' drilling mud and 3313' sulphur water.
- (k) 180' drilling mud and 4575' sulphur water.
- (l) 2900' slightly gas cut drilling mud and 100' drilling mud.
- (m) 80' sulphur & slightly oil cut mud and 100' drilling mud.

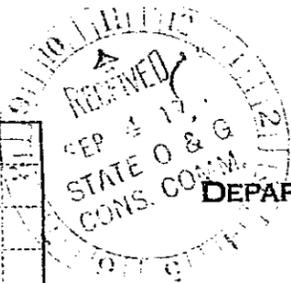
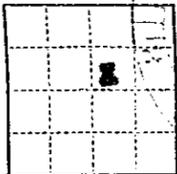


CORES

- 10-16-58 Core No. 1 from 4680' to 4730'. Recovered 50' shale, sand & lime. Trace of fluorescence & fractures from 4690' to 4691'.
- 10-17-58 Core No. 2 from 4730' to 4772'. Recovered 42' limestone, sand & shale. No show.
- 10-19-58 Core No. 3 from 4802' to 4836'. Recovered 34' limestone with small show of oil in fractures in 2 or 3 places. Fractures in bottom of core.
- Core No. 4 from 4836' to 4855'. Recovered 19' dense limestone. No show.

\* With Straddle packers.

Form 9-331 b  
(April 1952)



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Budget Bureau No. 42-10369 A  
Approval expires 12-31-60.

Indian Agency Navajo

Allottee \_\_\_\_\_

Lease No. 14-20-60-412

Co. No. 1967A

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	<input checked="" type="checkbox"/>
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 "B" Hobbs, New Mexico September 1, 19 59

Well No. 2 is located 1900 ft. from N line and 1900 ft. from E line of sec. 9

52/4 of 22/4 41N 22E  
(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 2116 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)

12-16-59

Set cement retainer at 4510' and spaced off perforations from 4506 to 4532 feet with 75 sacks regular cement at 2000' pressure. 56 feet of cement in casing above top perforations. Dumped 9' cement plug in top of 7-inch casing. Well plugged and abandoned 12-21-59.

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

Company Shible Oil & Refining Company

Address Box 2147  
Hobbs, New Mexico

By E. E. Alworth  
Title Agent

65-9

Form 9-331 b  
(April 1952)

**APPROVED**  
JAN 7 1959  
BILLY J. SINGER  
DISTRICT ENGINEER

(SUBMIT IN TRIPPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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

Indian Agency Navajo

Allottee \_\_\_\_\_

Lease No. 14-20-603-412  
Co. 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 REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT (Temporary)	<input checked="" type="checkbox"/>
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 Jan. 1, 19 59

Navajo Tribe of Indians "EB"  
Well No. 2 is located 1980 ft. from N line and 1980 ft. from E line of sec. 9

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

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

The elevation of the derrick floor above sea level is 5536 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)

Set cement retainer at 4540' and squeezed off perforations from 4596' to 4632' with 75 ax regular cement at 2800# pressure. 56' of cement in casing above top perforations. Dumped 5' cement plug in top of 7" casing. Well temporarily abandoned. Final report for the well on 12-23-58.

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

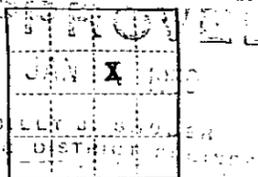
By J. C. Wiseloy

Title Agent

6571



Form 9-331b  
(April 1952)



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Budget Bureau No. 42-11359.1  
Approval expires 12-31-60.

Indian Agency Navajo

Allottee \_\_\_\_\_

Lease No. 14-20-603-412

Co. 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 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	Sub. Report of Perf. & Frac.

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

Farmington, New Mexico Dec. 31, 1958

Navajo Tribe of Indians "R"

Well No. 2 is located 1980 ft. from [N] line and 1980 ft. from [E] line of sec. 9

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

The elevation of the derrick floor above sea level is 5536 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)

Perforated 7" casing from 4668' to 4722' with 2 Jet shots per foot. Ran tubing ~~with~~ with Sweet Pkr. and set at 4712' with pkr. set at 4646'. Acidized with 1000 gal. mud acid; avg. injection rate 3 bbls. per min. at 900#. Opened up well and flowed 9 bbls. in 2 hrs. Swabbing was begun and in 18 hrs. recovered 28 bbls. fluid, 20% acid water; 30% acid water in the last 12 hrs. of swabbing. Well was swabbed dry. Sand-oil fraced with 21,000 gal. crude oil and 21,000# sand, avg. injection rate of 40 bbl. per min. at 1700#. Well was shut in overnight. Opened up well and in the first 24 hrs. well flowed 197 bbls. load oil. Well sanded up and was sand pumped. Swabbing operations were begun and recovered 406 bbls. load oil, and was swabbed dry. A cement retainer was set at 4652' and perforations from 4668' to 4722' were squeezed off with 75 sx regular cement at 2600# pressure. Tubing & retainer were pulled and casing was perf. from 4596' to 4632' with 2 jet shots per foot. Tbg. was set at 4620' with pkr. at 4554'. Acidized with 5000 gal. mud acid. Swabbing was begun and recovered all acid water.

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

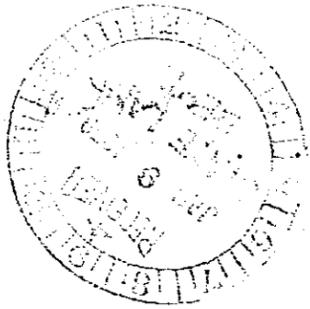
Farmington

New Mexico

By J. C. Wiseley

Title Agent

65 12



388

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1942

1942

Form 9-331b  
(April 1952)

	X	

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Budget Bureau No. 42-11350.1  
Approval expires 12-31-60.

Indian Agency Navajo

Allottee \_\_\_\_\_

Lease No. 14-20-603-412

Co. No. 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	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	<u>Subsequent Report of Frac. Treatment</u>	X

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

Farmington, New Mexico Dec. 2, 1958

Navajo Tribe "E"

Well No. 2 is located 1980 ft. from N line and 1980 ft. from E line of sec. 9

SW/4 of NE/4 41N 28E  
(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 5536 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)

- 11/17/58: Set 7" Casing at 4949' w/250 sacks reg. neat cement. FOB at 7:20 A.M.
- 11/17/58. Complete returns & rotated while cementing. Ran temp. survey - top of cement at 3570'. Displaced water w/oil. Tested casing w/1200# - O.K.
- 11/20/58: Ran logs. Perf. casing from 4810' to 4854' w/2 shots per foot. Set 2" tubing at 4852' w/packer at 4754'.
- 11/21/58: Acidized w/1000 gals. mud acid. Ave. Inj. rate 3 bbls./min. On 16 hr. swabbing test recovered 24 bbls. oil and 12 bbls. acid water.
- 11/22/58: Sand/Oil frac w/17,430 gals. oil & 17,430# sand, w/220 gals. Dowell J-90. Ave. inj. rate 32 bbls./min. at 2250#.
- Verbal approval received 12/1/58:
- 12/1/58: Set retainer at 4753'. Squeezed formation thru perf. from 4810' to 4854' w/50 sacks reg. neat cement. Preparing to perf. from 4668' to 4722'.

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

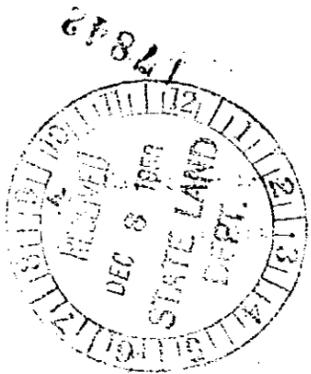
Address Box 1268

Farmington, New Mexico

By J. C. Wiseley

Title Agent

65-13



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Form 9-331b  
(April 1952)

	X	

(SUBMIT IN TRIPPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Budget Bureau No. 42-11359.4  
Approval expires 12-31-60.

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
Notice of Intention to Plug Back		X

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

Navajo Tribe "E" Farmington, New Mexico Nov. 18, 1958

Well No. 2 is located 1980 ft. from N line and 1980 ft. from E line of sec. 9

SW/4 of NE/4 41N 28E  
(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 5536 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)

- 11-11-58: DST No. 8 from 6450' to 6501' - Rec. 510' drilling mud - No Show.
- 11-12-58: DST No. 9 from 6500' to 6520' - Rec. 4550' of salt water.
- 11-13-58: DST No. 10 from 5506' to 5526' - Rec. 285' drilling mud & 3313' sulphur water.
- 11-13-58: DST No. 11 from 5400' to 5425' - Rec. 180' drilling mud & 4575' sulphur water.
- 11-13-58: DST No. 12 from 5222' to 5240' - Rec. 2900' of slightly gas cut drig. mud.
- 11-15-58: DST No. 13 from 4990' to 5025' - Rec. 80' of sulphur & slightly oil cut mud and 100' of drilling mud.
- 11-15-58: (Verbal approval received 11-14-58):  
Plugged back as follows: 6520' to 6220' w/125 sacks reg. cement. 6170' to 5970' w/80 sacks reg. From 5600' to 5350' w/100 sacks reg. From 5050' to 4925' w/50 sacks reg.
- 11-16-58: Drilled hard cement to PED of 4950'.

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

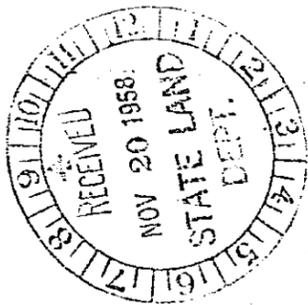
Address Box 1268

Farmington, New Mexico

By Russell M. Lilly

Title District Superintendent

65-14



17065



Form 9-331 D  
(April 1952)

	X	

(SUBMIT IN TRIPPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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

Indian Agency Navajo

Allottee \_\_\_\_\_

Lease No. 11-20-603-612  
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>	X

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

Farrington, New Mexico Nov. 7, 1958  
Navajo Tribe of Indians "1."  
Well No. 2 is located 1900 ft. from [N] line and 1900 ft. from [E] line of sec. 9  
SW/4 of NE/4 11N 28E \_\_\_\_\_  
(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 5536 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)

11-6-58

Drill Stem Test No. 7 from 6068' to 6130' with 1" top and 3/4" bottom chokes. Tool open 1-1/2 hours with fair to weak blow. Recovered 90' drilling mud & 4042' sulphur & gas cut salt water. Initial mud 2950#, min. flow, 900, max. flow, 1775, final mud 2950#. Build up after 30 mins. 1800#. Initial shut in pressure 1800#. Chloride in test, 37,000 PPM, in ditch 250 PPM.

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

Farrington

New Mexico

By E.S. Davis

Title Agent

65 15



16545

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Form 9-331b  
(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 Navajo

Allottee \_\_\_\_\_

Lease No. 11-20-603-612  
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. 24, 1958

Navajo Tribe of Indians "G"

Well No. 2 is located 1900 ft. from [N] line and 1900 ft. from [E] line of sec. 9

SW/4 of NE/4 41N 28E -  
(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 5535 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)

10-23-58  
Drill Stem Test No. 6 from 4960' to 4985' with 1" top and 3/4" bottom chokes. Tool open 1 hr. with fair to weak blow. Recovered 50' drilling mud, no shows. Initial mud 2500#, min. flow 50, max. flow 50, Initial shut in pressure 1000#, final mud 2450#. Build up after 30 minutes 200#.

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 E. G. Davis

Title Agent

65 17

Form 9-331 b  
(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 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. 24 19 58

Navajo Tribe of Indians "RE"

Well No. ~~xxxx~~ 2 is located 1980 ft. from [N] line and 1980 ft. from [E] line of sec. 9

SW/4 of NE/4      41N      28E      -

(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 5536 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)

10-21-58

Drill Stem Test No. 5 from 4799' to 4905' with 1" top and 3/4" bottom chokes. Tool open 2 hrs. with fair blow. Recovered 18' heavy oil cut mud and 95' oil cut mud. Initial mud 2250, min. flow 100, max. flow 100, Final mud 2250#. Build up after 30 minutes 700#. Initial Shut in pressure 340#.

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  
Title Agent

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. 21, 19 58

Navajo Tribe of Indians "E"

Well No. 2 is located 1980 ft. from N line and 1980 ft. from E line of sec. 9

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

10-16-58

Drill Stem Test No 3 from 4690' to 4730' with 1" top and bottom chokes. Tool open 1 1/2 hrs. with fair blow decreasing to weak at end of test. Recovered 30' drilling mud. Initial mud 2350#, min. flow 32, max. flow 32, final mud 2350#. Build up after 30 mins. 37#.

10-19-58

Drill Stem Test No. 4 from 4800' to 4855' with 1" top and 3/4" bottom chokes. Tool open 1 1/2 hrs. Weak blow throughout test. Recovered 140' oil and gas cut mud. Initial mud 2350#, min. flow 50, max. flow 60, final mud 2300#. Build up after 30 mins. 700#.

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

Title Agent

65 19

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. 14-20-603-432  
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 Core</u>	<b>X</b>

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

Farmington, New Mexico Oct. 21, 1958

Navajo Tribe of Indians "E"

Well No. 2 is located 1980 ft. from N line and 1980 ft. from E line of sec. 9

<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>-</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 \_\_\_\_\_ ft.

DETAILS OF WORK

State name 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

10-16-58  
Core No. 1 from 4680' to 4730'. Recovered 50' of shale, sand & lime. Trace of fluorescence and fractures from 4690' to 4691'.

10-17-58  
Core No. 2 from 4730' to 4772'. Recovered 42' limestone, sand & shale. No show.

10-19-58  
Core No. 3 from 4802' to 4836'. Recovered 34' limestone with small show of oil in fractures in 2 or 3 places. Fractures in bottom of core.

Core No. 4 from 4836' to 4855'. Recovered 19' dense limestone. No show.

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 9-331 b  
(April 1952)


(SUBMIT IN TRIPPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Budget Bureau No. 43-R-359.a  
Approval expires 12-31-55.

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	
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. 21, 19 58

Navajo Tribe of Indians "E"

Well No. 2 is located 1980 ft. from [N] line and 1930 ft. from [E] line of sec. 9

SW/4 of NE/4 11N 28E  
(1/4 Sec. and Eas. 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 \_\_\_\_\_ 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)

10-11-58  
Drill Stem Test No. 1 from 4264' to 4330' with 1" top and bottom chokes. Tool open 2 hrs. with good blow. Gas to surface in 17 minutes. Recovered 240' of gas cut mud, 120' of water and gas cut mud, 90' of gas. Initial mud 2088#, min. flow 71, max. flow 126, final mud 2088#. Build up after 30 mins. 1387#. Prod. gas at 41 MCF/day.

10-14-58  
Drill Stem Test No. 2 from 4574' to 4629' with 1" top and bottom chokes. Tool open 2 hrs. with fair blow. Gas to surface in 24 minutes, too small to measure. Rec. 415' heavily oil & gas cut mud. Initial mud 2303#, min. flow 157, max. flow 169, final mud 2303#. Build up after 30 mins. 220#.

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 Agent

65 21



Form 9-331b  
(April 1952)


(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Budget Bureau No. 42-R-339.2  
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		

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

Farmington, New Mexico Oct. 21, 19 58  
 Navajo Tribe of Indians "B"  
 Well No. 2 is located 1980 ft. from [N] line and 1980 ft. from [E] line of sec. 9  
SW 1/4 of NE 1/4 41N 28E -  
(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 \_\_\_\_\_ 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 13-3/4" hole at 7:00 PM 9-26-58. Drilled to 1014'. Set 31 jts. of 9-5/8" 36# casing, 994' set at 1008'. Cemented with 325 sacks AZ Gel and 150 sacks Heat Cement. Plug on bottom 8:00 AM, 9-26-58.

Drilled plug at 2:00 AM, 9-29-58, after testing casing with 1200# for 30 minutes.

Drilling.

Rutledge Drilling Company

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

65 22

Form 9-331 D  
(April 1952)

	X	

(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. Les. No. 196914

See attached plat.

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	<input checked="" type="checkbox"/>	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)

NAVAJO TRIBE OF INDIANS "E" September 19 1958

Well No. 2 is located 1980 ft. from N line and 1980 ft. from E line of sec. 9

SW/4 of NE 4 41-N 28-E --  
(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 later 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)

CASING PROGRAM			CEMENTING RECORD		CORING PROGRAM	
Size	Weight	Depth				
5-5/8"	35#	900'	Circulate to surface	1 - 4500-50 Hermosa		
7"	20 & 25#	6500'	Circulate to approximately 600' above pay zone.	1 - 4450-4500 Hermosa		

Halliburton method of cementing to be used.  
Low weight fresh water mud.  
Estimated total depth 6500' to test the Mississippian.

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

Company Hamble Oil & Refining Company

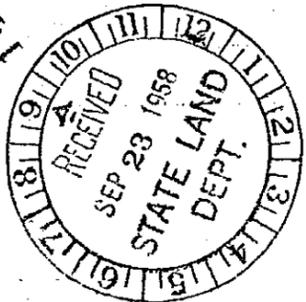
Address Box 1600

Midland, Texas

By [Signature]  
Title Asst. Division Chief Clerk

65 27

14313



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 Company Lease  
must be granted before drilling begins No. 196914

State Land Commissioner Midland Texas Ariz. September 19 1958

In compliance with Statewide Rule 3, notice is hereby given that it is  
our intention to commence the work of drilling well No. 2 Sec. 9,  
Twp. 41-N, Rge. 28-E B. & M., East Boundary Butte Field,  
Apache County.

Legal description of lease All of Section 9, 10, 15 and 16  
(attach map or plat to scale)  
Township 41 North, Range 28 East

Location of Well: 1980' from the North line and 1980' from the East line of Section 9  
(Give exact footage from section corners or other

legal subdivisions or streets)

Proposed drilling depth 6600 feet. Acres in drilling unit \_\_\_\_\_

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

Elevation of ground above sea level To be 5536'  
filed later feet.

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

PROPOSED CASING PROGRAM

Size of Casing Inches A.P.I.	Weight	Grade & Type	Top	Bottom	Cementing Depths
9-5/8"	36#	J-55 Smls	Surface	900	Circulate to surface
7"	20 & 23#	J-55 & N-80 Smls	Surface	6800	Circulate to approx. 600' above top of pay zone.

Intended Zone or Zones of completion:

Name	Perforated Interval
<u>Hermosa or</u>	<u>To be filed later</u>
<u>Mississippian</u>	

AFFIDAVIT:

I hereby certify under the penalty of perjury, that the information  
contained and statements herein made are to the best of my knowledge and  
belief, true, correct and complete.

Humble Oil & Refining Company  
(Applicant)

By [Signature]

Application approved this 23 day of September 19 58

Permit No. 65  
3-62 1/10/58

Obed M. Larsen  
State Land Commissioner

OK [Signature] Sept 23, 1958

Form Prescribed Under Oil and Gas Conservation Act of 1951

REPORT ON TEST OF WATER SHUT-OFF

Navajo Tribe of Indians "E" #2

(Formation Tester)

9-29-58

Operator Humble Oil & Refining Company, Box 1268, Farmington, New Mexico  
Well No. 2, Sec. 9, T. 41N, R. 28E, B. & M.  
East Boundary Butte Field, in Apache County, was tested for water shut-off  
on 9-29-58, 19  . 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. E. R. Horton, Toolpusher, and D. R. Weisman, Driller,  
of Rutledge Drilling Company

Shut-off data: 9-5/8" 36 lb. casing was cemented at 100 ft. on 9-28-58  
in 3/4" hole with 325 sacks of cement of which 13 sacks were left in casing.  
Casing record of well: 31 jts. 9-5/8" 36# 8R J-55 R2 EW Csg., 994.37'  
set at 1008.12'. Footage includes 1.23' Guide Shoe & 1.67' Float Collar.

Reported total depth 1014.1 ft. Bridged with cement from 1014 ft. to 0 ft.  
Cleaned out to 979 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  
1014 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           

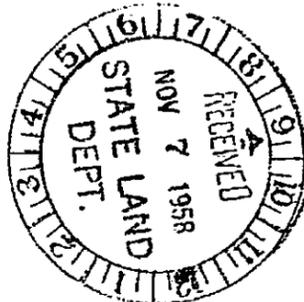
Shut-off data:            in.            lb. casing was cemented at            ft. on           , 19    
in            hole with            sacks of cement of which            sacks were left in casing.  
Casing record of well:           

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

APPROVED BY:             
Commissioner

DATE:           

See instructions on back side of form.



16469

14  
65









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

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 26

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 38

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

C  
O  
P  
Y

November 4, 1965

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

Attention: Mr. R.E. Barnard

Gentlemen:

In response to your letter of October 29, 1965, enclosed are sufficient bond forms for individual bonds covering your two wells.

However, in reviewing our files we note that the #E2 Navajo well file is complete with the exception of copies of the logs run. Before we can release your current blanket bond we must have these logs, and of course, the new bonds.

Your cooperation is very much appreciated.

Very truly yours,

John Bannister  
Executive Secretary  
nr  
enc

# HUMBLE OIL & REFINING COMPANY

CENTRAL REGION

P. O. Box 120  
Denver, Colorado - 80201

October 29, 1965

Mr. John Bannister  
Executive Secretary  
Arizona Oil and Gas Commission  
1624 West Adams  
Phoenix, Arizona 85007

Re: Federal Insurance Company  
Bond 8002 92 35

Dear Sir:

Receipt is acknowledged of your letter of October 15 concerning change in bonding requirements for the State of Arizona.

It has been decided that we will take the route of furnishing bonds on an individual well basis. Please send us the necessary forms to furnish bonds for the two wells we now operate in Arizona.

Immediately upon receipt of those forms, proper bonds will be furnished.

Very truly yours,

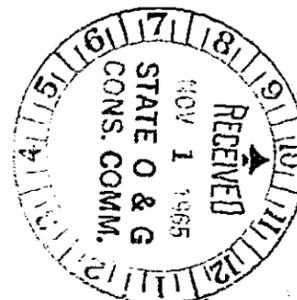
HUMBLE OIL & REFINING COMPANY

By: *R. E. Barnard*

R. E. Barnard

REB:bh

cc: R. S. Frazier



October 15, 1965

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

Attention: Mr. R.E. Barnard

Re: Federal Insurance Company Bond 8002 92 35

Gentlemen:

As you are aware, the captioned bond in the amount of \$10,000 is on file with this Commission to cover bonding requirements of this Commission.

As a result of the public hearing held September 22, 1965 in Phoenix, Arizona, concerning the Rules and Regulations of this Commission, the bonding requirements have been increased to \$5,000 for a single well and to \$25,000 for a state-wide blanket bond.

As required by law, certified copy of the new Rules and Regulations was filed with the Secretary of State on October 1, 1965, and consequently the new Rules became effective on that date.

This letter is to request that at your earliest convenience you take the necessary steps to increase your state-wide bond to \$25,000. Upon receipt of your new bond your old bond of course may be released.

Your earliest cooperation will be appreciated.

Yours very truly,

John Bannister  
Executive Secretary  
mr

May 3, 1965

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

Re: Humble Navajo #E2 well  
SW/4NE/4 S9-T41N-R28E, Apache County, Arizona  
Permit 65

This Commission's letters of August 10, 1964 and April 9, 1965 requested that the Well Completion Report be submitted for captioned well.

May we have this information just as soon as possible.

Yours very truly,

J.R. Scurlock  
Petroleum Geologist

mr

April 9, 1965

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

Re: Humble Navajo E 2 well  
SW/4NE/4 S9-T41N-R28E, Apache County, Arizona  
Permit 65

Gentlemen:

By form letter of August 10, 1964 we requested Well Completion Report for captioned well. To date this has not been received.

We are again enclosing these forms and request that the information be forwarded in accordance with Arizona's Rules and Regulations just as soon as possible.

Yours very truly,

J.R. Scurlock  
Petroleum Geologist

mr  
ec

STATE of ARIZONA  
OIL and GAS CONSERVATION COMMISSION  
CAPITOL ANNEX  
ROOM 202  
1624 WEST ADAMS STREET  
PHOENIX, ARIZONA

COMPANY Humble Oil & Refining Company DATE 8-10-1964  
RE: WELL NAME & NUMBER: Navajo "E" #2  
LOCATION: SECTION 9 TWP.41N R.2SE COUNTY Apache  
FILE NUMBER 65

Gentlemen:

We have reviewed our files and find that we need the below checked item (s) in order to complete same. Will you please fill in the enclosed form (s), at your earliest convenience, and return them to this office. May we remind you that your bond (# XXXXXXXXXXXXXXXXXX,

issued by Not Applicable) can be forfeited for failure to comply.

In addition we request a copy of any log run on this (these) well (s) (Not Applicable)  
Your cooperation is appreciated. If we may be of service to you please advise.

Yours very truly,

*Bill Cooper*

Bill Cooper  
Records Section

Completion Record X

Plugging Record

Well Log  
cc/Bonding Company

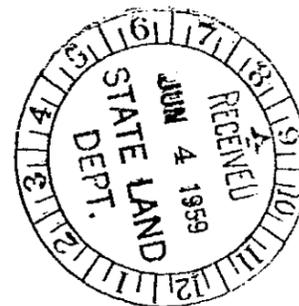
Application to plug and abandon

HUMBLE OIL & REFINING COMPANY  
PRODUCTION DEPARTMENT  
HOUSTON 1, TEXAS

9443

May 28, 1959

RALPH J. SCHILTHUIS  
VICE-PRESIDENT



State Land Commission of Arizona  
Phoenix  
Arizona

Gentlemen:

This is to certify that Mr. R. R. McCarty, Division Production Manager of our Western Division, is authorized to sign forms, reports, affidavits, and other instruments required by the State Land Commission of Arizona.

Mr. McCarty was previously authorized to sign instruments under the title of Division Superintendent and this letter is written to authorize change in occupational title only.

We will notify you in writing of any additions to or revocations of such authority.

Witness our hands and the seal of the Company, this 28th day of May, A. D. 1959.

HUMBLE OIL & REFINING COMPANY

By Ralph J. Schilthuis  
Vice-President

*RLS*

ATTESTED:

Elizabeth N. Lennay  
Assistant Secretary

HUMBLE OIL & REFINING COMPANY  
PRODUCTION DEPARTMENT  
HOUSTON 1, TEXAS

January 29, 1959

RALPH J. SCHILTHUIS  
VICE-PRESIDENT

State Land Commission of Arizona  
Phoenix, Arizona

Gentlemen:

This is to certify that Mr. D. F. Haynes, Manager, Crude Oil Department;  
Mr. J. E. McCleary, Assistant Manager, Crude Oil Department;  
Mr. J. C. Posgate, Assistant Manager, Crude Oil Department, and  
Mr. R. F. Price, Chief Clerk, Crude Oil Department, are authorized  
to sign forms, reports, affidavits, and other instruments required by  
the State Land Commission of Arizona.

We will notify you in writing of any additions to or revocations of such  
authorities.

Witness our hands and the seal of the Company, this 2nd day of  
February, A. D. 1959.

HUMBLE OIL & REFINING COMPANY

By Ralph J. Schilthuis  
Vice-President

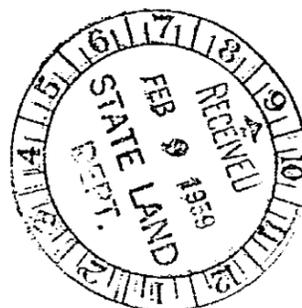
In Approved

RFP

1975

ATTESTED:

Elizabeth H. Kennedy  
Assistant Secretary



HUMBLE OIL & REFINING COMPANY  
PRODUCTION DEPARTMENT  
HOUSTON 1, TEXAS

November 18, 1958

RALPH J. SCHILTHUIS  
VICE-PRESIDENT

State Land Commission of Arizona  
Phoenix, Arizona

Gentlemen:

This is to certify cancellation of the signature authorizations for Mr. W. E. Hubbard and Mr. A. A. Klein to sign forms, reports, affidavits, and other instruments required by the State Land Commission of Arizona, Phoenix, Arizona.

Witness our hands and the seal of the Company, this 24th day of November, A. D. 1958.

HUMBLE OIL & REFINING COMPANY

By Ralph J. Schilthuis  
Vice President

Form Approved  
By ROD

*Return to  
N.B.  
#*

ATTESTED:

Elizabeth M. Kenney  
Assistant Secretary

17486



September 23, 1958

Mr. L. H. Byrd  
Humble Oil & Refining Company  
Western Division  
P. O. Box 1600  
Midland, Texas

Dear Mr. Byrd:

We are inclosing an approved copy of our form O&G 51, Notice of Intention to Drill New Well, together with receipt in the amount of \$25.00 covering your drilling operation in Section 9, Township 41 North, Range 28 East, Apache County, Arizona.

We note from the intent that the elevation will be furnished later, and we will appreciate having this information as soon as it is available. We are in receipt of the accompanying plat this date.

Very truly yours,

STATE LAND COMMISSIONER

By: Frederick C. Ryan,  
Supervisor,  
Oil and Gas Conservation

mb  
Encls.

65

46.00 Ac Unit  
Plat of Survey

**HUMBLE OIL & REFINING COMPANY**

WESTERN DIVISION

P. O. BOX 1600

**MIDLAND, TEXAS**

September 19, 1958

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

Re: Notice of Intention to  
Drill Navajo Tribe of  
Indians "E" No. 2  
File: 6-1

State Land Department  
State of Arizona  
Phoenix, Arizona

Gentlemen:

Please find enclosed copies of Form OG-51 and filing fee on Humble Oil & Refining Company's Navajo Tribe of Indians "E" Well No. 2, located 1980 feet from the North line and 1980 feet from the East line of Section 9, T-41-N, R-28-E, Apache County, Arizona.

Your approval at an early date will be appreciated.

Very truly yours,

*L. H. Byrd*  
L. H. BYRD

JEP/enk  
Enc.

14267



**HERNIMAN OIL & REF. CO.  
P. O. BOX 1600  
HIRSHARD, TEXAS**

**STATE OF ARIZONA  
STATE LAND DEPARTMENT  
STATE OFFICE BUILDING - PHOENIX, ARIZONA  
STATEMENT RECEIPT OFFICE COPY**

SEP-22-58 53804 071085 OK 25.00

SECTION 9 TOWNSHIP 41 N. RANGE 28 E.

KIND 22 LEASE - REFERENCE NO. 65

ACCOUNT NO. GRANT FUND	SUB	CARRYING CAPACITY ON STATIC LEVEL	SEE OTHER SIDE FOR CODE DESCRIPTION			BILLING DESCRIPTION	RATE	ACRES	\$	AMOUNT
			LAND CODE	GROUP CODE	WATER CODE					
14	401	95				Drilling Permit Application			\$	25.00

**IF PAYMENT IS MADE ON OR BEFORE THIS DATE** → **PAY THIS AMOUNT**

BILLING PERIOD		DATE BILLED		DATE DUE		TOTAL ACRES	TOTAL AMOUNT
NO.	DAY	NO.	DAY	NO.	DAY		\$
		9	23	9	28		25.00

SEE OTHER SIDE FOR LAW PERTAINING TO PENALTY AND INTEREST - A. C. 1939, 11-307

RENTAL AMOUNT SUBJECT TO PENALTY AND INTEREST IF NOT PAID ON OR BEFORE DATE DUE . . . . . (\$ )

5% PENALTY OF RENTAL AMOUNT . . . . . (\$ )

TOTAL RENTAL AMOUNT PLUS PENALTY . . . . . (\$ )

10% INTEREST PER ANNUM OF RENTAL AMOUNT . . . . . (\$ )

AND PENALTY - NUMBER OF DAYS DELINQUENT ( ) \$ )

TOTAL AMOUNT DUE INCLUDING PENALTY AND INTEREST . . . . . \$ )

CASH RECEIVED . . . . . \$ )

BALANCE DUE OR OVERPAYMENT . . . . . \$ )

TOTAL PENALTY AND INTEREST . . . . . \$ )

PENALTY AND INTEREST	DISTRIBUTION
\$	

65

TREAS. NO.

**HUMBLE OIL & REFINING COMPANY**

**SETTLEMENT OF ACCOUNT**

THE ATTACHED CHECK IS IN FULL FOR ITEMS SHOWN BELOW AND CONSTITUTES RECEIPT. IF CORRECT DETACH STATEMENT FOR YOUR RECORD.

State Land Department - Oil & Gas Division, Phoenix, Ariz.      \$25.00  
 Drilling Permit (Navajo Tribe of Indians E-2)  
 452-414-64-64-919-908

65

County Apache

Area East Boundary Butte

Lease No. 14-20-603-412

Well Name Humble Oil & Refining Company 2 Navajo-E

Location SW NE Sec 9 Twp 41N Range 28E Footage 1980 FNL 1980 FEL  
Elev 5527 Gr 5536 RKB KB Spud 9-26-58 ~~Completed~~ Abandon 12-23-58 Total Depth 6520  
4950 PBTB

Contractor \_\_\_\_\_

Casing Size	Depth	Cement	Drilled by Rotary	<u>X</u>
<u>9 5/8</u>	<u>1008'</u>	<u>475</u>	Cable Tool	_____
<u>7</u>	<u>4949'</u>	<u>250</u>	Production Horizon	_____
			Initial Production	<u>P &amp; A</u>

REMARKS Humble furnished structural cross section (comparative) log dated 11-10-66 on 1-31-69. See log file #28 and East Boundary Butte File. See permit #444.

Elec Logs <u>IE; Radioactivity; Caliper</u>	Sample Log <u>Am Strat</u>
Applic. <u>Plugging</u> Completion <u>Report X</u>	Sample Descript. _____
to Plug <u>Record X</u>	Sample Set <u>1791</u>
	Core Analysis _____
	DSTs _____

Water well accepted by \_\_\_\_\_

Bond Co. & No. The American Insurance Company Bond #5-10-11-58

Bond Am't \$ 25,000 Cancelled 11-29-65 Date Organization Report X

Filing Receipt 71085 Dated 9-22-58 Well Book X Plat Book X

API No. 02-001-20067 Loc. Plat X Dedication W/2 NE

Permit Number 65 Date Issued 9-23-58

*See 444 for re-entry*

