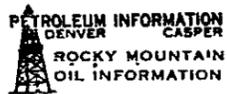


not be marketed, the discovery
is testing.

P-W

Humble Oil & Ref. Co. Navajo
NW/4-NE/4 Sec. 5-Twp. 41N -R28E
Apache County

ARIZONA 118
APACHE CO.
BOUNDARY BUTTE, E. (D)



Twp 41n-28e
Section 5
nw ne
560 s/n 1650 w/e

OPR: Humble Oil & Refining

WELL #: 2 Navajo

ELEV: 5441 DF

DSTS. & CORES:

SPUD: 7-25-60 COMPL: 8-29-60

*TOPS: Log-Sample

Coconino 2008

Hermosa 4114

Paradox 5060

Molas 5960

Mississippian 6108

DST 5270-5304,
2 hrs, rec 120

GCM, 1100 sulfur

wtr, FP 185-270#,

SIP (30 min)

1645#. DST 5395-

5421, 2 hrs, rec

245 salty sulfur

wtr, FP 313-1140#,

SIP (35 min) 1320#

DST 5695-5720, 2 hrs, rec

120 sulfur wtr CM, FP 60-150,

SIP 1640 #.

No Cores.

Contr: Calvert

TD: 6260 PB:
CSG: 8-5/8" @ 616 w/350

PERF:

PROD. ZONE:

UNIT. PROD: D & A

sl

COUNTY Apache AREA East Boundry Butte LEASE NO. NAV 14-20-603-413

WELL NAME Humble Oil ^{Refining} Company Navajo

LOCATION NW/NE SEC 5 TWP 41N RANGE 28E FOOTAGE 560 FNL 1650 FEL
ELEV 5432 GR KB SPUD DATE 7-24-60 STATUS P&A TOTAL 6260
COMP. DATE 8-30-60 DEPTH 6260

CONTRACTOR Calvert Petroleum Company

CASING SIZE 8 5/8" DEPTH 604 OD CEMENT 350 SKS LINER SIZE & DEPTH NA DRILLED BY ROTARY X
DRILLED BY CABLE TOOL NA
PRODUCTIVE RESERVOIR NA
INITIAL PRODUCTION dry hole P&A

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Hermosa	4114		X	DST#1 5270-5304 opn 2:00; ISIP-1660/30:, R/130'
Paradox	5060		X	GCM, 1100' sul water, FP-85-270, FSIP-1645/:30'/
Molas	5960		X	DST #2, 5395-5421/:2:00, ISIP-1495-:30,R/245'
Miss	6108		X	salt wtr. FP-313-1140, FSIP-1320/:35. DST #3, 5695-5720/2:00, ISIP-1900/:30, R/120 sul WCM, FSIP-1540/:30, FP-60150 Humble furnished structural cross section (comparative) log dated 11/10/66 on 1/31/69. See log file #28 East Boundry Butte File

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
Micro; IE; GammaRay Neutron	NA	NA	SAMPLE DESCRP. <u>X</u> SAMPLE NO. _____ CORE ANALYSIS _____ DSTs _____

REMARKS Well re-entered under Permit #558 by AAA Fishing Tool Co.
(whose name was changed to Ari-Mex Oil and Exploration)
APP. TO PLUG X
PLUGGING REP. X
COMP. REPORT X

WATER WELL ACCEPTED BY _____

BOND CO. Federal Insurance Company BOND NO. 8002-92-35
DATE _____ ORGANIZATION REPORT X
BOND AMT. \$ 10,000 CANCELLED 11-29-65 WELL BOOK X PLAT BOOK X
FILING RECEIPT 9227 LOC. PLAT 6-21-60 DEDICATION N/2 NE/4 5-41N-28E
API NO. 02-001-05307 DATE ISSUED _____

PERMIT NUMBER 118

(over)

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, SIDETRACT 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 & Refining Co. ADDRESS Box 2347, Hobbs, New Mexico

LEASE Navajo Tribe of Indians WELL NO. 2 COUNTY Apache

SURVEY: - SECTION 5 DRILLING PERMIT NO.:

LOCATION: 560' FNL, 1650 FEL, Sec. 5, T-41-N, R-28-E, Apache County, Arizona.

TYPE OF WELL: Dry Hole TOTAL DEPTH 6260'
(Oil, Gas or Dry Hole)

ALLOWABLE (If Assigned)

LAST PRODUCTION TEST: OIL - (Bbls.) Water - (Bbls.)
GAS - (M. C. F.) DATE OF TEST -

PRODUCING HORIZON - PRODUCING FROM: - TO -

1. COMPLETE CASING RECORD:

Ran 596' of 8-5/8" csg set at 604'. Cmt w/350 sxs reg 4% Gel cmt, cmt circulated.

2. FULL DETAILS OF PROPOSED PLAN OF WORK: Plugged and abandoned as follows:

Set 1st plug from 6260-6100' w/35 sxs cmt, 2nd plug from 5950-5800' w/33 sxs cmt, 3rd plug from 5250-5050' w/49 sxs cmt, 4th plug from 4300-4100' w/96 sxs cmt, 5th plug from 2100-1900' w/37 sxs cmt, 6th plug from 650-550' w/50 sxs cmt, 7th plug from 25-0' w/10 sxs cmt. Installed dry hole marker as required by the State of Arizona. Location cleaned and leveled. Mud laden fluid between all plugs.

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? Yes. If not, outline procedure proposed above.

DATE COMMENCING OPERATIONS: August 27, 1960

NAME OF PARTY DOING WORK: Calvert Petroleum Company ADDRESS Tulsa, Oklahoma

CORRESPONDENCE SHOULD BE SENT TO: Humble Oil & Refg Co., Box 2347, Hobbs, New Mexico

NAME: x *A. L. Carpenter*

TITLE: Agent

APPROVED: 7 DAY OF Dec 19 60

DENIED: DAY OF 19

W. M. ...
OIL AND GAS COMMISSION

BY

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 East Boundary Butte
Street Box 2347 Pool _____
City Hobbs State New Mexico County Apache
Lease Name Navajo Tribe of Indians Well No. 2 Acres in Unit _____
Location 560' FNL, 1650' FEL.
Sec. 5 Twp. 41-N Rge. 28-E
Elevation DF 5441 GR _____ Electric Log Run August 26 19 60
Number of Crude Oil Producing Wells on this Lease, including this well 2 (#1 Shut-In)
Has Authorization to Transport Oil or Gas From Well, Form O&G 57 been filed? -

OFFICIAL COMPLETION GAUGE

Date Test Commenced Dry Hole 19 60 Hour - M. Date Test Completed - 19 - Hour - M
Length of Test _____ Hours _____ Minutes
For Flowing Well: For Pumping Well:
Flowing pressure on Tbg. _____ lbs./sq. in. Length of stroke used _____ inches
Flowing pressure on csg. _____ lbs./sq. in. Number of strokes per min. _____
Size tbg. _____ in. No. ft. run _____ Size of working barrel _____ inches
Size choke _____ in. Type choke _____ 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? _____ 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 _____ cu. ft. of gas per bbl. of oil.
Per cent water produced during this test _____
Gravity of oil produced during this test. (Corrected to A. P. I. 60° F)
Name of Pipe Line or other carrier _____
If perforated: No. Shots None From _____ To _____ Date Perforated _____
Date well Spudded July 24 19 60 Date Well Completed August 30 19 60
Top Pay None Ft. Total depth of well 6260 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, 8rd, ST&C	596	604	None

CEMENT AND TESTING RECORD

Size of Hole	String Placed	Where Cement Placed	No. Sacks Cement	Method Used	Pressure Applied in Testing	Hardness of Cement Drilled	Type of Cement
12 1/4"	Surface		350	Pumped	1000#	Hard	Reg w/4% Gel
Drilled to TD of 6260 and plugged as follows: Set 1st plug from 6260-6100' w/35 sxs cmt, 2nd plug from 5950-5800' w/33 sxs cmt, 3rd plug from 5250-5050' w/49 sxs cmt, 4th plug from 4300- 4100' w/96 sxs cmt, 5th plug from 2100-1900' w/37 sxs cmt, 6th plug from 650-550' w/50 sxs cmt, 7th plug from 25-0' w/10 sxs cmt. Dry hole marker installed.							

CHEMICAL OR SHOOTING RECORD BEFORE COMPLETION

Size	Chemical or	Quantity	Date	From	To

AFFIDAVIT

I, A. L. Carpenter, 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.

A. L. Carpenter
Representative of Company

Subscribed and sworn to and before me this 1st day of December 19 60
Lea _____ County, Apache Ernest Law Barber Notary Public
My Commission expires: 6-28-61 New Mexico

ACE LODGE

FISCAL YEAR - 7/1/59 - 6/30/60.

	CASH INCOME	SALARY	UTILITIES	PHONE	SUPPLIES	REPAIRS	LINEN REPLA- MENT AND LAUNDRY	SALES TAX	TOTAL EXPENSE	NET INCOME
JULY	5,523.33	581.64	111.39	99.29	82.20	36.00	336.68	110.10	1357.30	4166.03
AUGUST	5,883.52	757.08	339.21	199.96	48.16	41.48	362.11	100.01	1848.01	4035.51
SEPTEMBER	4,450.38	629.73	343.21	228.93	56.20	35.10	268.31	82.37	1643.85	2806.53
OCTOBER	3,689.23	611.83	347.99	260.14	55.00	24.50	226.77	38	1596.61	2092.62
NOVEMBER	4,198.17	587.55	291.78	210.24	43.20	000	217.13	78.37	1428.27	2769.90
DECEMBER	3,288.89	611.90	308.69	234.22	103.59	18.00	219.28	62.51	1558.19	1730.50
JANUARY	4,200.91	630.64	405.21	255.66	000	000	268.58	81.54	1641.63	2559.28
FEBRUARY	5,023.37	620.01	555.78	275.53	000	000	316.51	97.02	1864.85	3158.52
MARCH	5,400.73	625.72	587.24	310.28	139.79	64.20	413.58	100.70	2241.51	3159.22
APRIL	5,923.95	677.75	300.12	455.47	142.20	21.10	425.20	108.26	2130.10	3793.85
MAY	5,237.06	804.57	316.00	434.46	86.06	72.21	389.34	96.66	2199.30	3037.76
JUNE	4,855.10	774.44	290.26	382.47	282.61	81.16	402.83	88.68	2302.45	2552.65
TOTAL (12 mos.)	57,674.64	7912.86	4196.88	3346.65	1039.01	393.75	3846.32	1076.60	21812.07	35862.37

STATE OF ARIZONA
OIL AND GAS CONSERVATION COMMISSION
PHOENIX, ARIZONA

Form O&G 56

Form Prescribed Under Oil and Gas Conservation Act of 1951
ABANDONMENT AND PLUGGING RECORD

(Within thirty days after the plugging of any well has been accomplished, the owner or operator thereof shall file this form with the Commission, setting forth in detail the method used in plugging the well.)

PLUGGING METHODS AND PROCEDURE -- The methods and procedure for plugging a well shall be as follows: (a) The bottom of the hole shall be filled to, or a bridge shall be placed at, the top of each producing formation open to the well bore, and in either event a cement plug not less than fifty (50) feet in length shall be placed immediately above each producing formation open to the well bore whenever possible.

(b) A cement plug not less than fifty (50) feet in length shall be placed at approximately fifty (50) feet below all fresh-water-bearing strata.

(c) A plug shall be placed at or near the surface of the ground in each hole.

(d) The interval between plugs shall be filled with heavy-mud-laden fluid.

(e) An uncased hole shall be plugged with heavy mud up to the base of the surface string, at which point a plug of not less than fifty (50) feet of cement shall be placed.

Operator Humble Oil & Refining Company Field East Boundary Butte
Pool _____
County Apache

Address all correspondence concerning this form to: Humble Oil & Refining Company

Street: Box 2347 City Hobbs State New Mexico

Lease Name Navajo Tribe of Indians Well No. 2 Sec. 5 Twp. 41-N Rge. 28-E

Date well was plugged August 30, 1960

Was the well plugged according to regulations of the Commission? Yes

Set out method used in plugging well and record of casing pulled: No casing pulled.

Set 1st plug from 6260-6100' w/35 sxs cmt, 2nd plug from 5950-5800' w/33 sxs cmt, 3rd plug from 5250-5050' w/49 sxs cmt, 4th plug from 4300-4100' w/96 sxs cmt, 5th plug from 2100-1900' w/37 sxs cmt, 6th plug from 650-550' w/50 sxs cmt, 7th plug from 25-0' w/10 sxs cmt. Installed dry hole marker as required by the State of Arizona. Location cleaned and leveled. Mud laden fluid between all plugs.

(AFFIDAVIT)

NEW MEXICO
STATE OF ~~ARIZONA~~
COUNTY OF Lea

x A. L. Carpenter
Humble Oil & Refining Company
(Operator)

Before me, the undersigned authority, on this day personally appeared A. L. Carpenter, 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.

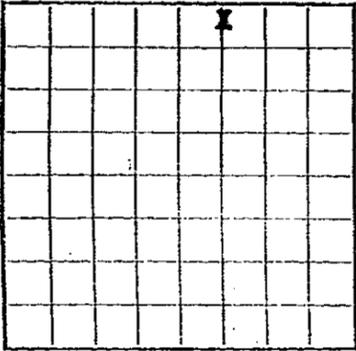
Subscribed and sworn to before me this the 1st day of December, 1960

Mary Law Hanks
Notary Public

My Commission expires: 6-28-61.

Form 9-330

get Bureau No. 12-1355.1
Approval expires 12-31-60.
Indian Agency Navajo Tribe
XXXXXXXX 14-20-607-413



LOCATE WELL CORRECTLY

SERIAL NUMBER
LEASE OR PERMIT TO PROSPECT
Lease No. Humble 196915

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Humble Oil & Refining Company Address Box 2180, Houston, Texas

Lessor or Tract Navajo Tribe of Indians Field E. Boundary Butte State Arizona

Well No. 2 Sec. 5 T. 41N R. 28E Meridian G & SR County Apache

Location 960 ft. S. of N Line and 1650 ft. W. of E Line of Sect. 5 Elevation 5441
(Denote feet relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

ORIGINAL
SIGNED: ARVIN D. EADY

Date December 1, 1960 Title Agent

The summary in this page is for the condition of the well at above date.

Commenced drilling July 24, 1960 Finished drilling August 30, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from _____ to _____ No. 4, from _____ to _____

No. 2, from _____ to _____ No. 5, from _____ to _____

No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____

No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From-	To-	
8-5/8	60	350							

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	60	350	Pumped		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
	None					

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

December 1, 1960 Put to producing Dry Hole, 1960

The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment.

Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Jack Tubbs Driller George Schmet Driller

Floyd Ellinger Driller _____ Driller

FOLD MARK

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Date December 1, 1960 Title Agent

The summary on this page is for the condition of the well at above date.
 Commenced drilling July 25, 1960 Finished drilling August 30, 1960

OIL OR GAS SANDS OR ZONES
 (Denote gas by G)

No. 1, from _____ to _____ No. 4, from _____ to _____
 No. 2, from _____ to _____ No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
 No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From-	To-	
8-5/8	60.4	350							

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	60.4	350	Pumped		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
 Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
	None					

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Put to producing Dry Hole, 1960
 The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ % emulsion; _____ % water; and _____ % sediment.

Gravity, °Bé. _____
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Jack Tubb, Driller George Bohnet, Driller
Floyd Bulberg, Driller _____, Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0	1385	1385	Sand
1385	1898	513	Sand and shells
1898	2345	447	Sand and shale
2345	2578	233	Sand, shale and lime
2578	3036	458	Shale
3036	3184	148	Shale w/lime streaks
3184	3331	147	Shale and lime
3331	3495	164	Shale
3495	4237	742	Shale and lime
4237	4352	115	Shale, lime and anhydrite
4352	4533	181	Shale and lime
4533	4674	141	Shale, lime and chert
4674	4738	64	Shale and lime
4738	4799	61	Lime and chert
4799	4942	143	Lime and shale
4942	5030	88	Lime
5030	5304	274	Lime and shale
5304	5610	306	Lime
5610	5720	110	Lime, dolomite and chert
5720	5767	47	Lime and chert
5767	5803	36	Lime
5803	5844	41	Lime and shale
5844	6005	161	Lime
6005	6132	127	Lime and shale
6132	6260	128	Lime

FOLD MARK

38

10-4309-2 U. S. GOVERNMENT PRINTING OFFICE

EXPLANATION

CONVENTION RECORDS

EMPLOYEES

TOOLS USED

SHOOTING RECORD

PLUGS AND ADAPTERS

MUDDING AND CEMENTING RECORD

WELL WORK

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.

Well was drilled to a total depth of 6260 feet and found to be dry.

Spudded 12 1/2" hole at 6:15 AM, 7-24-60. Set 5 9/8" of 8-5/8" csg at 604' w/350 axc reg cut, circulated cut.

INDICATIVE WATER SANDS

Ran Gamma Ray-Neutron, Induction-Electric, Mirco and Continuous Dipmeter logs.

Well not perforated.

Three drill stem tests were taken.

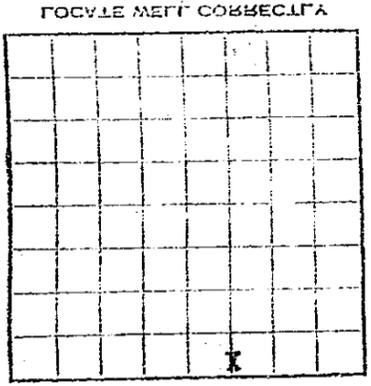
(Describe logs on p. 6)

Abandonment plugs were set as follows:

Plug #	Size	From	To	Date
Plug #1	35 axc	From 6260 to 6100.		August 30 1960
Plug #2	33 axc	from 5950 to 5800.		
Plug #3	49 axc	from 5250 to 5050.		
Plug #4	58 axc	from 4300 to 4100.		
Plug #5	37 axc	from 2100 to 1900.		
Plug #6	30 axc	from 850 to 750.		
Plug #7	10 axc	from 25 to 0.		

Installed dry hole marker as required by the State of Arizona.

LESSOR OF INTEREST: **WELLS SERVICE COMPANY**
 COMPANY: **WELLS SERVICE COMPANY**
 ADDRESS: **Box 3760, Houston, Texas**



LOG OF OIL OR GAS WELL

GEOLOGICAL SURVEY
 DEPARTMENT OF THE INTERIOR
 UNITED STATES

WELL NO. **WELLS 130012**
 LETTER OF PERMIT TO PROCEED
 SERIAL NUMBER
 EXPIRES **11-30-60**
 PUBLISHED BY **WELLS SERVICE**
 PUBLISHED **11-31-60**
 U.S. GOVERNMENT PRINTING OFFICE

FORM 2531A
7-6-60

		X	

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Alloyee _____
 MERRY _____
 Lessee No. _____
 UPRR No. Humble 196415

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHOWING
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR REFINING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF TESTING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER COLUMNS	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	

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

Navajo Tribe of Indians

August 29, 1960

WELL NO. 2 IS LOCATED 560 FT. FROM {N} LINE AND 1450 FT. FROM {E} LINE OF SEC. 4
 NW/4 of SE/4 14-1 28 E
(R. SEC. AND SECT. NO.) (TWP.) (RANGE) (MERIDIAN)
 East Boundary Grache Arizona
(FIELD) (LOCALITY OR CONVEYANCE) (STATE OR TERRITORY)

THE ELEVATION OF THE DERRICK FLOOR ABOVE SEA LEVEL IS 1489 FT.

DETAILS OF WORK

(STATE NAMES OF AND EFFECTED DEPT'S TO WHICH DEEDS, PERMITS, AND LICENSES OR PRODUCTION CASINGS INDICATE HURDLES MUST BE CROSSED AND ALL OTHER IMPORTANT FACTORS MENTIONED)

Set the following cut plugs: 1st plug from 6260-6100' w/35 sacks cement, 2nd plug from 5980-5880' w/33 sacks cement, 3rd plug 5850-5050' w/49 sacks, 4th plug from 4300-4100' w/98 sacks cement, 5th plug from 2100-1900' w/37 sacks cement, 6th plug 650-550' w/50 sacks cement, 7th plug from 25' to 0 w/10 sacks cement. Installed dry hole marker as required by State of Arizona. Location cleaned and leveled. Mud laden fluid between all plugs.

I UNDERSTAND THAT THIS PLAN OF WORK MUST BE COMPLETED WITHIN THE PERIOD OF TIME SPECIFIED BY THE GEOLOGICAL SURVEY BEFORE OPERATIONS MAY BE COMMENCED.

COMPANY Humble Oil & Refining Company

ADDRESS Box 2367

Hobbs, N.M.

ORIGINAL SIGNED: ARVIN D. EADY

By _____
TITLE Agent



110

FORM 9-331A
(REV. 12-1-57)

		X	

(SUBMIT IN TRIPPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

REGIONAL OFFICE
Alton Agency Navajo Tribe
Alton, Arizona 86001
Lease No. Humble 196915
DATE

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 SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	X		

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

Navajo Tribe of Indians

August 29, 1969

WELL NO. 2 IS LOCATED 560 FT. FROM {N} LINE AND 1650 FT. FROM {E} LINE OF SEC. 5
NW/4 of NE/4 41-N 18-E
(1/4 SEC. AND 1/4 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 EXERCISED DEPTHS TO OBJECTIVE SANDS; SHOW SIZES, WEIGHTS, AND LENGTHS OF PROPOSED CASINGS; INDICATE MUDDING JOBS, CEMENTING JOBS, AND ALL OTHER IMPORTANT PROPOSED WORK.)

Drilled to a total depth of 6250' and found to be dry. To be plugged and abandoned as follows: 1st plug from 6250-6100' w/35 sacks cement, 2nd plug from 5950-5800' w/33 sacks cement, 3rd plug from 5250-5050' w/49 sacks cement, 4th plug 4300-4100' w/96 sacks cement, 5th plug 2100-1900' w/37 sacks cement, 6th plug 650-550 w/50 sacks cement, 7th plug 0 - 25' w/10 sacks. Install dry hole marker as required by State of Arizona.

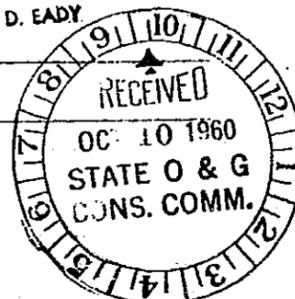
I UNDERSTAND THAT THIS PLAN OF WORK MUST RECEIVE APPROVAL IN WRITING BY THE GEOLOGICAL SURVEY BEFORE OPERATIONS MAY BE COMMENCED.

COMPANY Humble Oil & Refining Company

ADDRESS Box 2347
Hobbs, N.M.

ORIGINAL
SIGNED: ARVIN D. EADY
By

TITLE Agent



8

Form 9-831b
(April 1957)

	X	

AMENDED

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 49-8250.4
Approval expires 12-31-60.

Indian Agency Navajo Tribe

14-20-603-413

Allottee _____

Lease No. Humble 196915

See Attached Plat

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	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

June 28, 19 60

Well No. 2 is located 560 ft. from N line and 1650 ft. from E line of sec. 5

NW/4 of NE/4 (1/4 Sec. and Sec. No.) 41-N (Twp.) 28-E (Range) _____ (Meridian)
East Boundary Butte (Field) Apache (County or Subdivision) Arizona (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 casing jobs, cementing points, and all other important proposed work)

CASING PROGRAM		
Size	Wt.	Depth
7-5/8" or	24#	600
8-5/8"		
4-1/2"	95#	5800

CEMENT PROGRAM
Circulate to surface.

CORING PROGRAM
1-Madison 5700-5750

Halliburton method of cementing to be used.
Minimum mud for samples.
Proposed total depth 5800' 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 Humble Oil & Refining Company

Address Box 1600

Midland, Texas

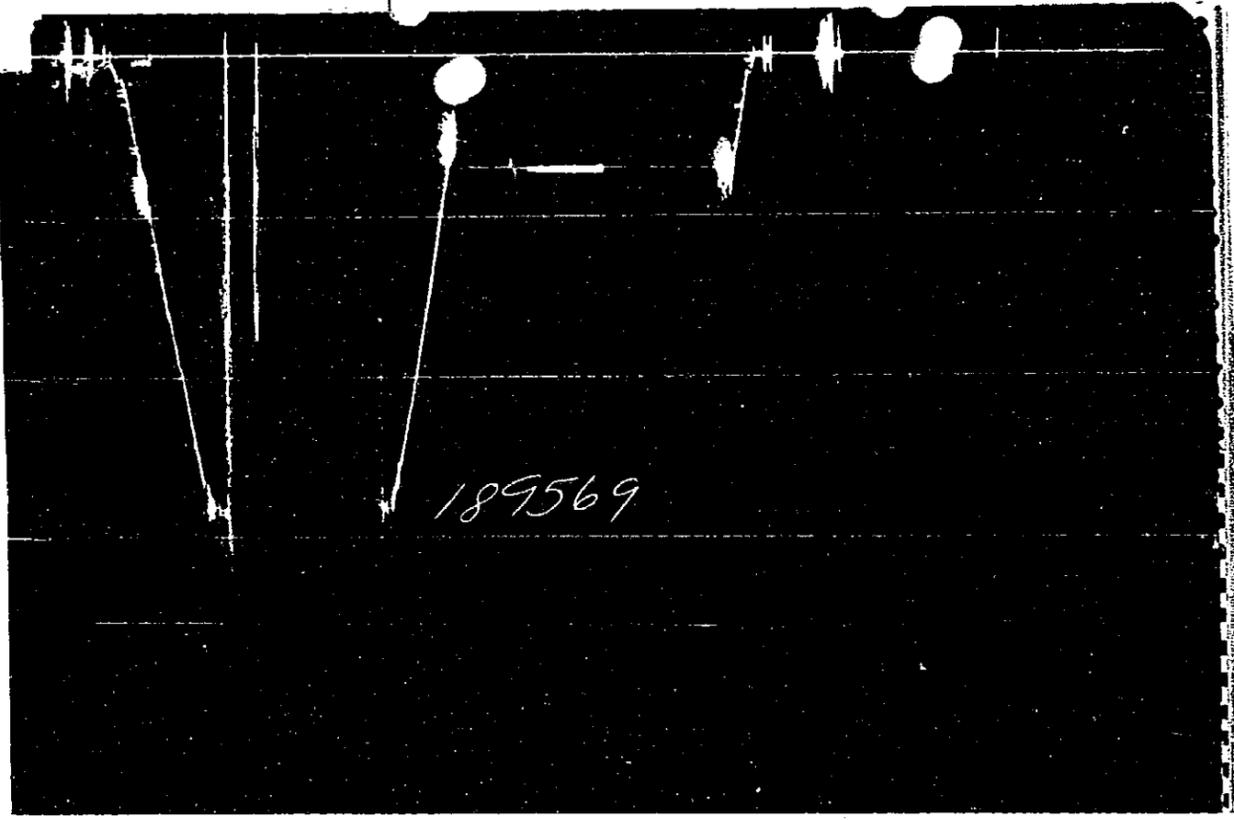
By G.R. Van Landingham

Title Area Adm.

ELB

Initial Closed In Time	30	Minutes		Date	8-13-60		
Tool Open Flow Period	3	120		Ticket No.	18936		
Final Closed In Time	30	Minutes		HOWCO DISTRICT	FARMINGTON, N. M.		
Depth Top Gauge	5255	Ft.	Blanked Off	NO	Kind of Job	OPEN HOLE	
BT. P.R.D. No	256	24	Hr. Clock	CONTRACTOR COLVERT DRILLING COMPANY			
Pressure Readings	Field	Office Corrected	HOLE & TOOL DATA				
Initial Hydro Mud Pressure	2540	2486	Elevation	-	Top Packer Depth	5264'	
Initial Closed in Pres.	1660	1653	Total Depth	5304'	Bottom Packer Depth	5270'	
Initial Flow Pres.	85	54-92	Casing or Hole Size	6 3/4"	Size & Type Wall Packer	6"	
Final Flow Pres.	270	64-268	Liner or Rathole Size	6 3/4"	Size Bottom Choke	3/4"	
Final Closed in Pres.	1645	1646	Casing Perforations	Top Bottom	Size Surface Choke	1"	
Final Hydro Mud Pressure	2510	2484	Interval Tested	5270'-5304'	ID & Length Air Chamber	90	
Depth Center Gauge	5301	Ft.	Blanked Off	YES	Formation Tested	HEERMOSA	
BT. P.R.D. No	2081	-	Hr. Clock		ID & Length Drill Collars	3 1/2" x 270'	
Pressure Readings	Field	Office Corrected	Est. Gauge Depth Temp.	Calc. 150 F	Size Drill Pipe	3 1/2" I.P.	
Initial Hydro Mud Pressure			MUD DATA	Weight	9.5	Viscosity	1.3
Initial Closed in Pres.			All depths measured from	ROTARY TABLE	No. Folders Reproduced	5	
Initial Flow Pres.			REMARKS: Opened tool for 3 minute first flow.				
Final Flow Pres.			Closed tool for 30 minute initial closed in pressure. Re-opened tool with fair blow -				
Final Closed in Pres.			continued same throughout test.. Took 30				
Final Hydro Mud Pressure			minute final closed in pressure.				
Depth Bottom Gauge		Ft.	Blanked Off				
BT. P.R.D. No			Hr. Clock				
Pressure Readings	Field	Office Corrected					
Initial Hydro Mud Pressure							
Initial Closed in Pres.			Recovered	600	Feet of Gas		
Initial Flow Pres.			Recovered	120	Feet of Gas Cut Drilling Mud		
Final Flow Pres.			Recovered	1100	Feet of Gas Cut Sulphur Water		
Final Closed in Pres.			Recovered		Feet of		
Final Hydro Mud Pressure			Witnessed By	McGEE			
Amount-Type of Cushion		None	Tester	WATSON			

LOCATION Sec. 5-41N-28E
 NAVAJO LEASE NAME
 WELL NO. 2
 FIELD RED MESA
 TEST NO. 1
 HUMBEL OIL AND REFINING COMPANY
 LEASE OWNER
 COUNTY APACHE
 STATE ARIZONA
 FARMINGTON OWNERS DISTRICT



Company HUMBLE OIL AND REFINING COMPANY Date 8-13-60

Initial Hydro Mud Pressure 2486 PSI
 Initial Flow 5L
 Final Flow 6L
 Initial Closed In Pressure 30 Minutes
 Final Closed In Pressure 30 Minutes
 Final Hydro Mud Pressure 2184 PSI

Tricker No. 189336
 Lease NAVAJO
 Well No. 2 Test No. 1
 BT No. 256 Depth 5255'
 Hr. Clock No. 21
 Temperature Corrected Calc. 150 ° F

P	1st Flow Pressure		Initial CIP		2nd Flow Pressure		Final CIP	
	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.
P0	.000	5L	.000	6L	.000	92	.000	268
P1	.011	6L	.0112	227	.055	120	.0101	1511
P2			.0224	1582	.110	147	.0202	1601
P3			.0336	1624	.165	170	.0303	1616
P4			.0448	1637	.220	191	.0404	1627
P5			.056	1645	.275	210	.0505	1633
P6			.0672	1649	.330	228	.0606	1638
P7			.0784	1652	.385	246	.0707	1642
P8			.0896	1652	.440	268	.0808	1643
P9			.1008	1653			.0909	1645
P10			.112	1653			.101	1646

Remarks:

HOWCO 1327-NI-BANDER

Initial Closed In Time	30	Minutes		Date	8-19-60	
Tool Open Flow Period	5	120		Minutes	Ticket No.	189569
Final Closed In Time	30	Minutes		HOWCO DISTRICT	Farmington	Kind of Job
Depth Top Gauge	5680	Ft.	Blanked Off	no		
BT. P.R.D. No	786		24	Hr. Clock	CONTRACTOR	Calvert Drilling Co.
Pressure Readings		Field		Office Corrected	HOLE & TOOL DATA	
Initial Hydro Mud Pressure	2860		2827		Elevation	5441' DF
Initial Closed in Pres.	1900		1922		Total Depth	5720'
Initial Flow Pres.	60		46-69		Casing or Hole Size	6 3/4"
Final Flow Pres.	.150		52-174		Liner or Rathole Size	6 3/4"
Final Closed in Pres.	.1640		1645		Casing Perforations	Top Bottom
Final Hydro Mud Pressure	2810		2822		Interval Tested	5695-5720
Depth Center Gauge		Ft.	Blanked Off		Formation Tested	Hermosa
BT. P.R.D. No				Hr. Clock	Est. Gauge Depth Temp.	108 F.
Pressure Readings		Field		Office Corrected	MUD DATA	Weight
Initial Hydro Mud Pressure					All depths measured from	Rotary Table
Initial Closed in Pres.					REMARKS:	Tool opened for a 5 minute first flow.
Initial Flow Pres.						Rotated tool for a 30 minute initial closed
Final Flow Pres.						in pressure. Reopened tool with very weak
Final Closed in Pres.						blow continuing throughout 120 minute test.
Final Hydro Mud Pressure						Closed tool for a 30 minute final closed in
Depth Bottom Gauge	5717	Ft.	Blanked Off	yes		pressure.
BT. P.R.D. No	2081		24	Hr. Clock		
Pressure Readings		Field		Office Corrected		
Initial Hydro Mud Pressure	3300				Recovered	120 Feet of sulphur water, cut mud
Initial Closed in Pres.	2100				Recovered	Feet of
Initial Flow Pres.	80				Recovered	Feet of
Final Flow Pres.	300				Recovered	Feet of
Final Closed in Pres.	1750				Recovered	Feet of
Final Hydro Mud Pressure	3275				Witnessed By	Pat. Ireland
Amount-Type of Cushion	none				Tester	A. P. CLARK

LOCATION SEC. 5-11N-28E
 FIELD E. BOUNDARY BUTTE
 COUNTY APACHE
 STATE ARIZONA

LEASE NAME
 NAVAJO TRIBAL
 WELL NO. 2
 TEST NO. 3
 LEASE OWNER
 HUMBLE OIL & REFINING COMPANY
 OWNERS DISTRICT
 FARMINGTON

Company **HUMBLE OIL & REFINING COMPANY** Date **8-19-60**

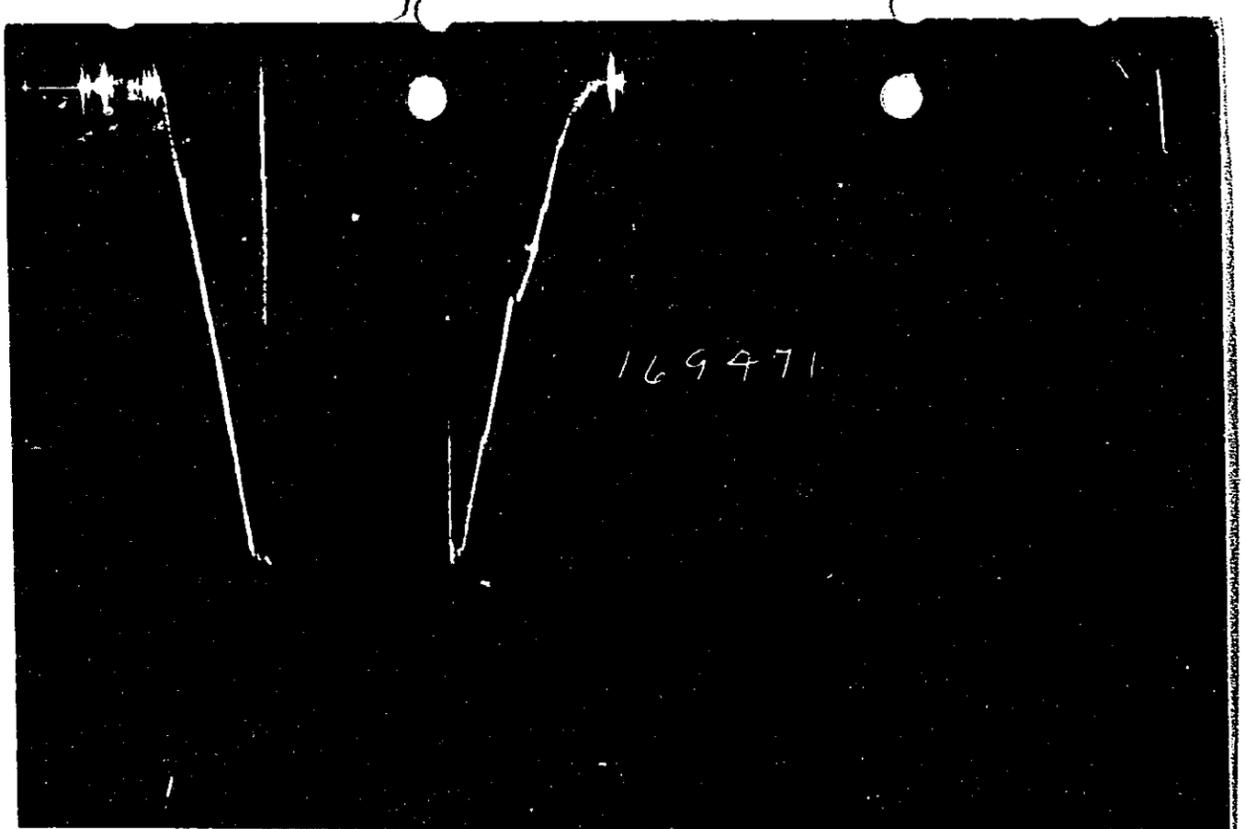
Initial Hydro Mud Pressure **2827** PSI
 Initial Flow **46**
 Final Flow **52**
 Initial Closed In Pressure **30 minutes** **1922**
 Initial Flow **69**
 Final Flow **174**
 Final Closed In Pressure **30 minutes** **1645**
 Final Hydro Mud Pressure **2822**

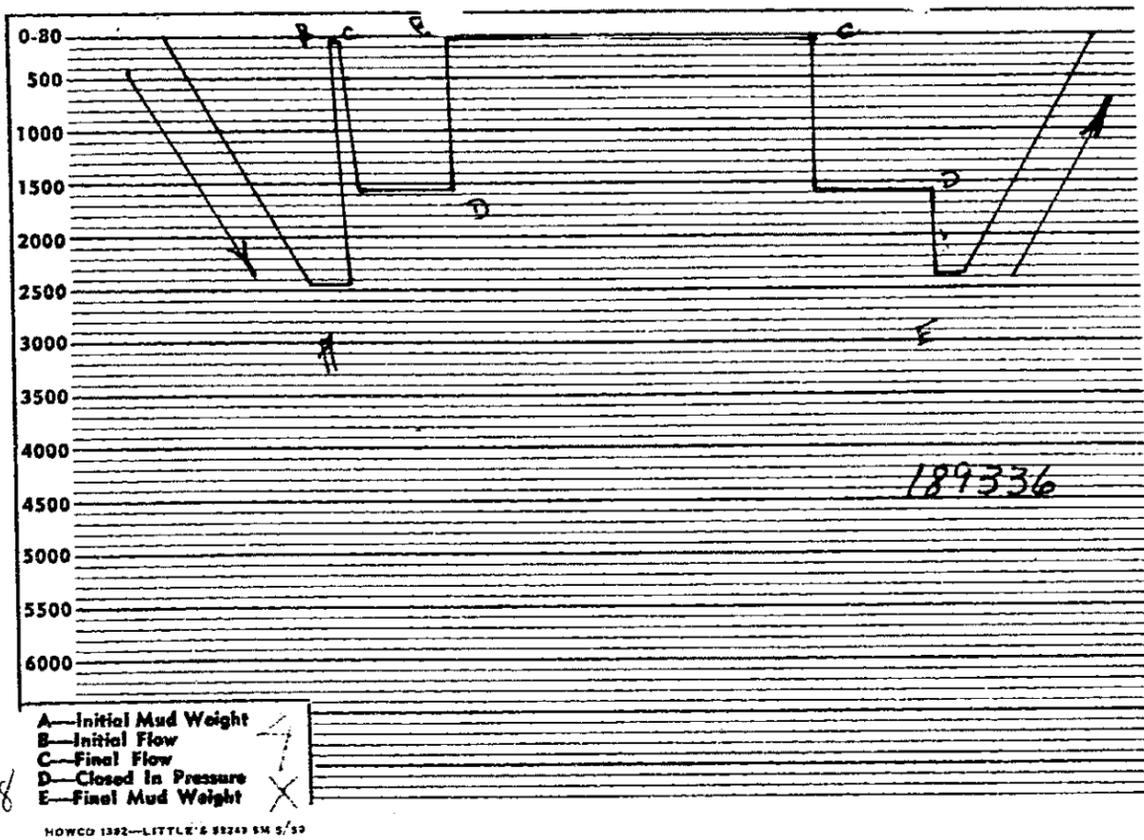
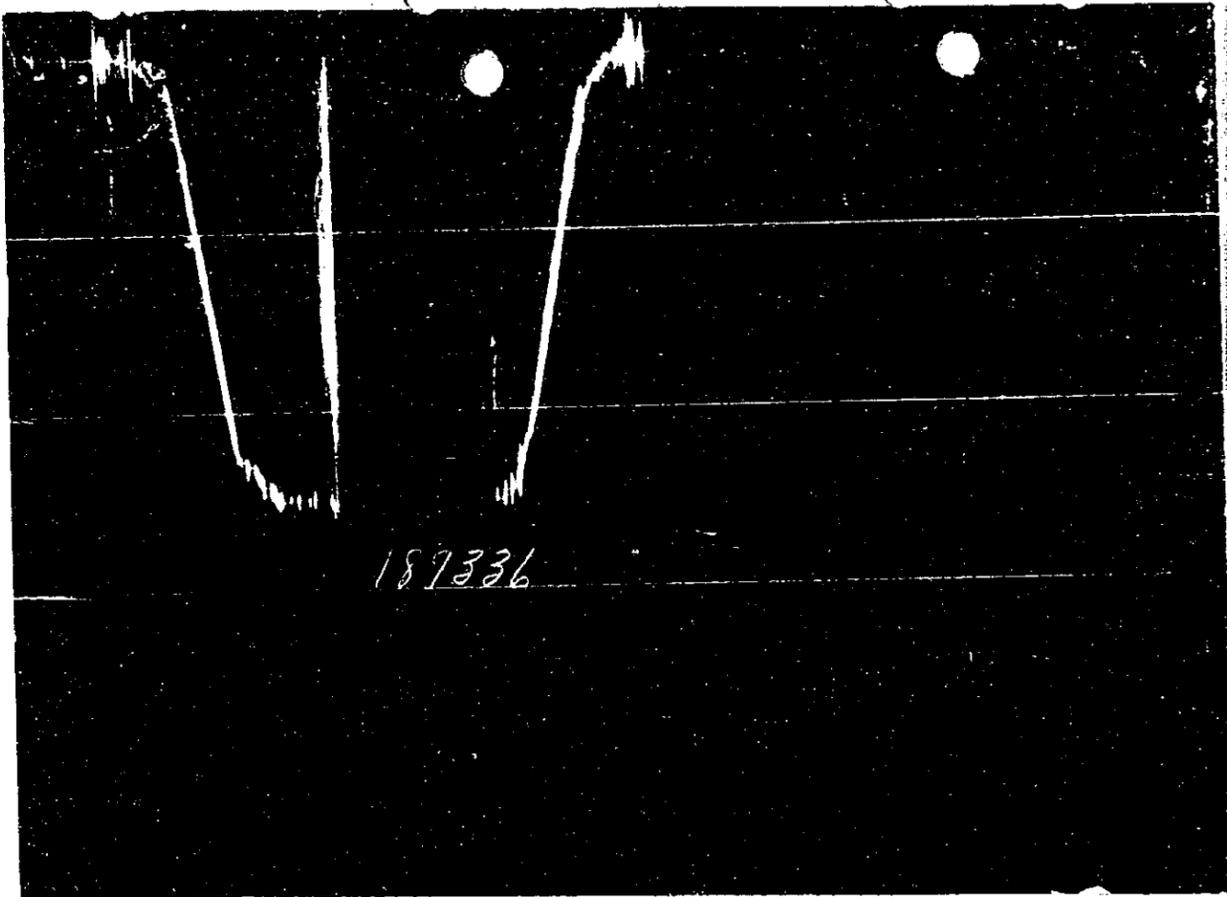
Ticket No. **189569**
 Lease **NAVAJO TRIBAL**
 Well No. **2** Test No. **3**
 BT No. **786** Depth **5680'**
 2L Hr. Clock No. _____
 Temperature Corrected to Actual **108 ° F**

	1st Flow Pressure		Initial CIP		2nd Flow Pressure		Final CIP	
	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.
P0	.000	46	.000	52	.000	69	.000	174
P1	.013	52	.0093	1433	.0489	87	.0103	405
P2			.0186	1641	.0978	105	.0206	846
P3			.0279	1754	.1467	120	.0309	1132
P4			.0372	1804	.1956	136	.0412	1289
P5			.0465	1843	.2445	149	.0515	1388
P6			.0558	1869	.2934	157	.0618	1469
P7			.0651	1890	.3423	166	.0721	1528
P8			.0744	1904	.3912	174	.0824	1583
P9			.0837	1914			.0927	1619
P10			.093	1922			.103	1645

Remarks:

HOWCO 1287-RT- SANDER





Company HUMBLE OIL & REFINING COMPANY Date 8-15-60

Initial Hydro Mud Pressure	Time	PSI	Ticket No. <u>169471</u>
		<u>2630</u>	
Initial Flow		<u>173*</u>	Lease <u>NAVAJO TRIBE</u>
Final Flow	<u>10 Min.</u>	<u>306</u>	
Initial Closed In Pressure	<u>30 Min.</u>	<u>1500</u>	Well No. <u>2</u> Test No. <u>2</u>
Initial Flow		<u>336</u>	BT No. <u>256</u> Depth <u>5379'</u>
Final Flow	<u>120 Min.</u>	<u>1146</u>	<u>24</u> Hr. Clock No. <u>2273</u>
Final Closed In Pressure	<u>35 Min.</u>	<u>1312</u>	Temperature Corrected to <u>CALC. 120 ° F</u>
Final Hydro Mud Pressure		<u>2630</u>	

	1st Flow Pressure		Initial CIP		2nd Flow Pressure		Final CIP	
	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.
P0	.000	173*	.000	306	.000	336	.000	1146
P1	.0036	178*	.0113	1299	.0561	559	.0134	1229
P2	.0072	183*	.0226	1342	.1122	716	.0268	1246
P3	.0108	184	.0339	1375	.1683	831	.0402	1257
P4	.0144	198	.0452	1402	.2244	913	.0536	1266
P5	.0180	210	.0565	1423	.2805	982	.0670	1275
P6	.0216	227	.0678	1441	.3366	1045	.0804	1283
P7	.0252	245	.0791	1459	.3927	1099	.0938	1291
P8	.0288	262	.0904	1473	.449	1146	.1072	1298
P9	.0324	280	.1017	1488			.1206	1305
P10	.036	306	.113	1500			.134	1312
	<u>1</u> Minute Intervals		<u>3</u> Minute Intervals		<u>15</u> Minute Intervals		<u>3.5</u> Minute Intervals	

Remarks: * **QUESTIONABLE.**

Initial Closed In Time	30	Minutes		Date	8-15-60	
Tool Open Flow Period	1st 10 / 2nd 120	Minutes		Ticket No.	169471	
Final Closed In Time	35	Minutes		HOWCO DISTRICT	FARMINGTON	
Depth Top Gauge	5379'	Fr.	Blanked Off	NO	Kind of Job	OPEN HOLE
BT. P.R.D. No	256	24	Hr. Clock	CONTRACTOR CALVERT DRILLING		
Pressure Readings	Field	Office Corrected	HOLE & TOOL DATA			
Initial Hydro Mud Pressure	2675	2630	Elevation	-	Top Packer Depth	5391'
Initial Closed in Pres.	1495	1500	Total Depth	5421'	Bottom Packer Depth	5396'
Initial Flow Pres.	313	173#-336	Casing or Hole Size	6 3/4"	Size & Type Wall Packer	6" E.S.A.
Final Flow Pres.	1140	306-1146	Liner or Rathole Size	6 3/4"	Size Bottom Choke	3/4"
Final Closed in Pres.	1320	1312	Casing Perforations	Top / Bottom	Size Surface Choke	1"
Final Hydro Mud Pressure	2675	2630	Interval Tested	5396' - 5421'	ID & Length Air Chamber	C.I.P.
Depth Center Gauge	Fr.	Blanked Off	Formation Tested	HERMOSA	ID & Length Drill Collars	2" x 300'
BT. P.R.D. No		Hr. Clock	Est. Gauge Depth Temp.	CALC. 120 F	Size Drill Pipe	3 1/2" I.F.
Pressure Readings	Field	Office Corrected	MUD DATA Weight	9.5	Viscosity	43
Initial Hydro Mud Pressure			All depths measured from	ROTARY TABLE	No. Folders Reproduced	5
Initial Closed in Pres.			REMARKS: Tool opened for a 10 minute first			
Initial Flow Pres.			flow. Rotated tool for a 30 minute initial			
Final Flow Pres.			closed in pressure. Tool re-opened with a			
Final Closed in Pres.			fair blow, which continued throughout the			
Final Hydro Mud Pressure			test. No gas or fluid to the surface. Took			
Depth Bottom Gauge	5417'	Fr.	Blanked Off	YES	a 35 minute final closed in pressure.	
BT. P.R.D. No	2081	24	Hr. Clock			
Pressure Readings	Field	Office Corrected				
Initial Hydro Mud Pressure	2675#		Recovered	845'	Feet of sulphur gas odor	
Initial Closed in Pres.	1500#		Recovered	2455'	Feet of slightly gas cut salty sulphur water	
Initial Flow Pres.	325#		Recovered		Feet of	
Final Flow Pres.	1150#		Recovered		Feet of	
Final Closed in Pres.	1350#		Recovered		Feet of	
Final Hydro Mud Pressure	2675#		Witnessed By	E.D. ADCOTT		
Amount-Type of Cushion	NONE		Tester	D.C. PAYTON		

LEASE NAME: **NAVAJO TRIBE**
 WELL NO.: **2**
 TEST NO.: **2**
 FIELD: **RED MESA**
 COUNTY: **APACHE**
 STATE: **ARIZONA**
 LOCATION: **SEC. 5 - T. 1N R. 28E**
 LEASE OWNER: **HUMBLE OIL & REFINING COMPANY**
 OWNERS DISTRICT: **FARMINGTON, NEW MEXICO**

X-Chrono
X-Lambert

July 21, 1969

Memo to Files 508, 509, and (118)

From J. A. Lambert

Jim Jacobs, Globe Minerals, called this date. He informs me that management is thinking about moving the rig from Globe #1 Navajo 10022, Sec. 5-41N-28E, Permit #508 well site which is being plugged and abandoned to the Humble Navajo #2, Sec. 5-41N-28E, Permit #118 well site rather than to the Globe #E-4 Navajo 597, Sec. 9-41N-28E, Permit #509 well site.

They want to re-enter this plugged and abandoned well. I informed them that we would need a plat, \$25, bond, Application for Permit to Re-Enter, the whole works.

John Bannister advised me that I should require evidence from them that they have lease-hold rights to this well site at the present time. Jacobs indicated that he had a Designation of Operator from AAA Fishing Tool to this site and AAA Fishing Tool is presumably the successor lessee to Humble on this group of leases.

42-

\$25 fee rec'd on
7/24/69

118

Navajo No. 14-20-603-413

Humble Lease No. 196915

AMENDED

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL DEEPEN PLUG BACK

NAME OF COMPANY OR OPERATOR **Humble Oil & Refining Company** DATE **June 28, 1960**

Address **Box 1600** City **Midland** State **Texas**

DESCRIPTION OF WELL AND LEASE

Name of lease **Navajo Tribe of Indians** Well number **2** Elevation (ground) **later 5432**

Well location (give footage from section lines) Section—township—range or block & survey
560' FNL & 1650' FEL, Sec. 5, T-41-N, R-28-E.

Field & reservoir (If wildcat, so state) County
East Boundary Butte **Apache**

Distance, in miles, and direction from nearest town or post office
50 miles NW of Shiprock, New Mexico

Nearest distance from proposed location to property or lease line: **1813** feet Distance from proposed location to nearest drilling completed or applied—for well on the same lease: **6600** feet

Proposed depth: **5800** Rotary or cable tools **rotary** Approx. date work will start **on approval of application**

Number of acres in lease: **2342** Number of wells on lease, including this well, completed in or drilling to this reservoir: **Two**

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

Status of bond
on file w/Commission

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone)

* Fill in Proposed Casing Program on other side

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the **Area Administrator** 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 **June 28, 1960**

Signature **G. R. Van Landuyk**

Permit Number: **#118**

Approval Date: **6/30/60**

Approved By: *[Signature]*

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

See Instruction on Reverse Side of Form

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION

Application to Drill, Deepen or Plug Back

Form No. P-1 File two copies

Authorized by Order No. **4-6-59**

Effective **April 6, 19 59**

INSTRUCTIONS

READ CAREFULLY AND COMPLY FULLY

For the purpose of this determination attach hereto a neat, accurate plat, map or sketch of this lease, section, block or lot locating thereon the proposed site for this location. Plat shall be drawn to a scale which will permit the facile observation of all pertinent data. Show distances of the proposed well from the two nearest lease and section lines, and from the nearest wells on the same lease completed in or drilling to the same reservoir. If the location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well, and the names and addresses of all adjoining lease or property owners.

In event plat is filed for the purpose of designating the drilling and producing unit, or proration unit, on which the proposed well is to be drilled, the boundaries of such unit shall be shown, also the boundaries of all other such units attributed to other wells on the same lease completed in or drilling to the same reservoir. The acreage contained within each unit shall also be shown.

Do not confuse survey lines with lease lines. The sketch or plat should show your entire lease if possible. If it is not practical to show the entire lease and the plat shows only a section, block or lot out of your lease, you should clearly show that same is only a part of the lease.

Designate scale to which plat or sketch is drawn. Also designate northerly direction on the sketch or plat.

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
7-5/8" or 8-5/8"	24#	H-40 or J-55	Surface	600'	600'	*
4-1/2"	95#	J-55	Surface	Total Depth	Total Depth	**

Form No. P-1

- * Use a sufficient volume of 4% Gel to circulate cement to surface with centralizers on bottom joint.
- ** Sufficient 8% Gel cement will be used to cover all prospective pay zones with centralizers & scratcher.

Halliburton method of cementing to be used.
Minimum mud program for samples.
Proposed total depth 5800' to test the Mississippian.
We plan to take 1-50 core in the Madison formation.

Navajo No. 14-20-603-413

Form No. P-1

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
Refer to original				Application	Depth 17' Done	

PROPOSED CASING PROGRAM

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone)

Amended wjm

* Fill in Proposed Casing Program on other side

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Area Administrator 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 June 17, 1960

118

Signature *C. D. East*

Permit Number: 118
Approval Date: 6/20/60
Approved By: *M. W. Kantor*

Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.
See Instruction on Reverse Side of Form

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION

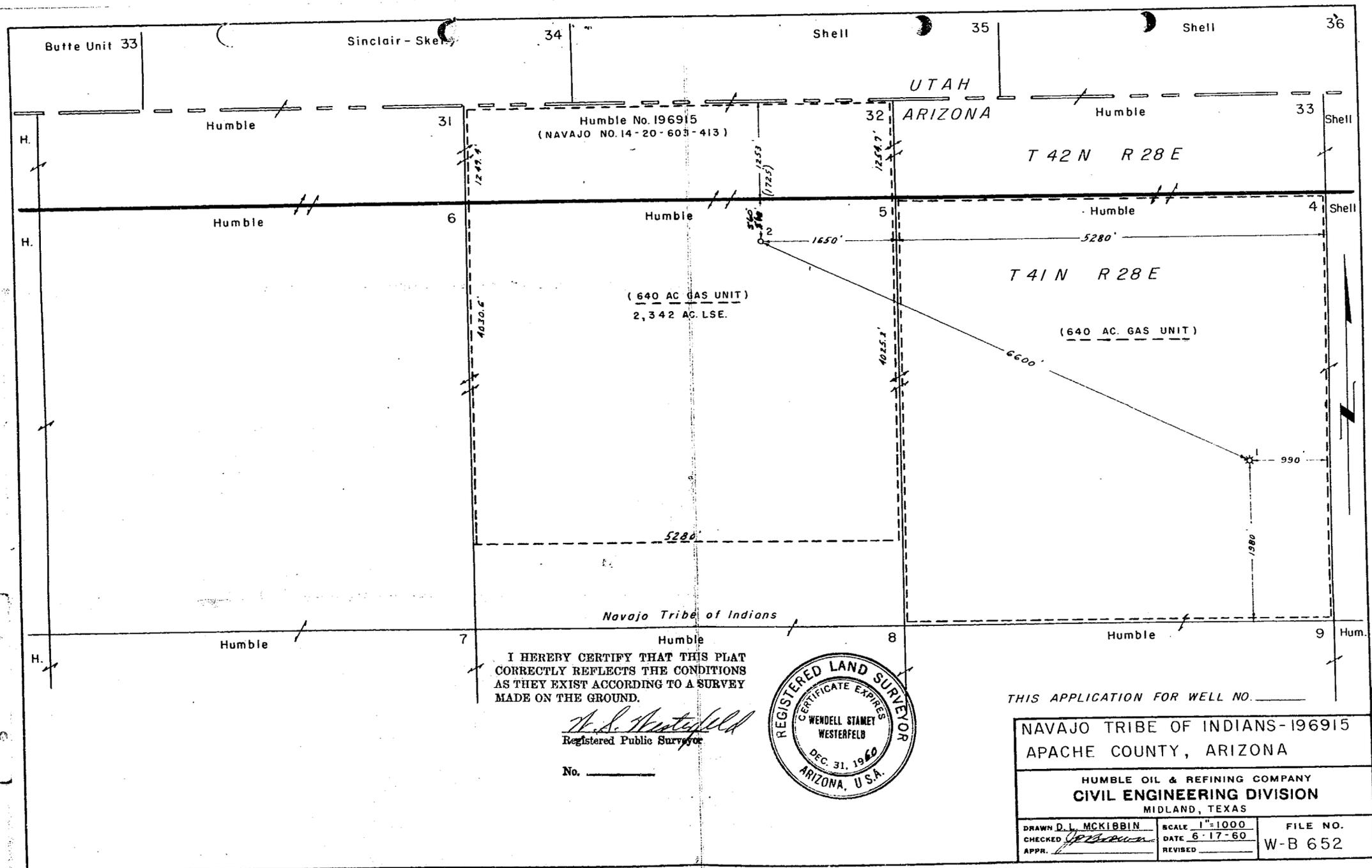
Application to Drill, Deepen or Plug Back

Form No. P-1

File two copies

Authorized by Order No. 4-6-59

Effective April 6, 19 59



I HEREBY CERTIFY THAT THIS PLAT
CORRECTLY REFLECTS THE CONDITIONS
AS THEY EXIST ACCORDING TO A SURVEY
MADE ON THE GROUND.

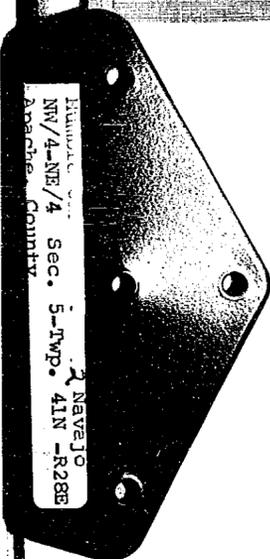
W. S. Westerfeld
Registered Public Surveyor

No. _____



THIS APPLICATION FOR WELL NO. _____

NAVAJO TRIBE OF INDIANS-196915 APACHE COUNTY, ARIZONA		
HUMBLE OIL & REFINING COMPANY CIVIL ENGINEERING DIVISION MIDLAND, TEXAS		
DRAWN D. L. MCKIBBIN	SCALE 1"=1000	FILE NO.
CHECKED <i>[Signature]</i>	DATE 6-17-60	W-B 652
APPR. <i>[Signature]</i>	REVISED	



5-41N-28E
560' FNL-1650' FEL
Humble Oil &
Refining Co.
Navajo Tribal #2

~~5-41N-28E~~
5-41N-28E

EXTENSION, East Boundary Butte Outpost; 5600' Miss test; C/same as operator's #1 Navajo disc; 660' NW of Navajo #1; RT; spud 7-24-64; 8 5/8" 613'/350 sx; DST #1, 5270-5304', op 2 hrs; 120' GCM, 1100' sulf wtr, FP 85-270#, SIP 1645/30 min; DST #2, 5395-5421', op 2 hrs, rec 245' sulf wtr, FP 313-1140#, SIP 1320/35 min; DST #3, 5695-5720', op 2 hrs, rec 120' sulf wtr, FP 60-150#, SIP 1640/30 min; D,P&A 8-29-60; TD 6260"; EL/T: Hermosa 4114"; Paradox 5060'; Mississippian 6108'. FINAL REPORT

HUMBLE PLUGS AND ABANDONS APACHE COUNTY WELL

Humble Oil & Refining Company has reported that their #2 Navajo proposed confirmation well in Section 5, Township 41 North, Range 28 East, Apache County, has been plugged and abandoned. The East Boundary Butte outpost was abandoned at a total depth of 6260' on August 29th.

The test was abandoned in the Mississippian, after three drill-stem tests were run. See Drilling Progress Section of this report for detailed information concerning these drill-stem tests. Contractor on the test was Calvert Drilling Company. The location of the test was approximately one mile northwest of Humble's #1 Navajo discovery well.

HUMBLE ANNOUNCES FOUR CORNERS WELL

6-60

Humble Oil and Refining Co. is staking a location for the Humble No. 2 Navajo, a 5,600 foot Mississippian test in the East Boundary Butte Area in north Apache County.

The location will be approximately 1,650 feet from the Utah-Arizona state line and 1,650 feet from the east line of Section 5, Township 41 North, Range 28 East.

This well will be a 6,500 foot northwest outpost from the Humble No. 1 Navajo which was completed in the fall of 1955 at a depth of 6,382 feet to become the first commercial oil well in Arizona.

This discovery well potentialled for 47 barrels of 39.4 degree gravity per day with a gas oil ratio of 87,344 to one. Because of the excessive gas which could not be marketed, the discovery well was shut in and has been shut in since initial testing.

October 1, 1969

Mr. David Conn
Globe Minerals, Incorporated
1101 Newhouse Building
Salt Lake City, Utah 84102

Dear Mr. Conn:

Enclosed is your check No. 56 dated July 22, 1969, payable to this Commission. We return this check because we have had no further information concerning your desire to re-enter the Humble #2 Navajo (413) located in Section 5, Township 41 North, Range 28 East, Apache County, which was plugged and abandoned.

Over sixty days have passed and we know that should you desire to undertake this operation you will send in a plat, an application for permit to drill, and fulfill the other usual requirements for drilling.

Yours truly,

James A. Lambert
Administrative Assistant

/vb

Enc.

cc - Mr. Jim L. Jacobs

Certified Mail - 231700
Receipt Requested

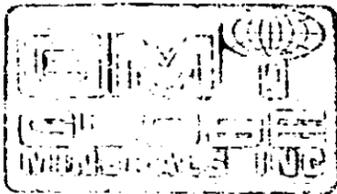
118

PERIOD ENDING	HOURS	RATE	AMOUNT	FICA	FED. TAX	STATE TAX	TOTAL

EMPLOYEE: THIS IS A STATEMENT OF YOUR EARNINGS AND DEDUCTIONS FOR THE PERIOD ENDING ABOVE. IT IS YOUR RESPONSIBILITY TO REPORT ANY CHANGES TO YOUR EMPLOYER.

PAYEE: DELIVER THIS STATEMENT BEFORE DEPOSITING CHECK

DATE	DESCRIPTION	AMOUNT	DEBIT	CREDIT	BALANCE
7-22-69	Payment of filing fee for the W.N.M. Section 5, T41N, R28E, Globe Minerals, Inc. Navajo No. 2 <i># 118 location</i>			25.00	



CONTINENTAL BANK & TRUST COMPANY
SALT LAKE CITY, UTAH

713
1230

July 22, 1969 No 56

PAY Twenty-five Dollars and 00/100

DOLLARS \$ 25.00

OF
ORDER
TO THE

Oil and Gas Conservation Comm.
State of Arizona
1624 West Adams, Rm 202
Phoenix, Arizona 85007

GLOBE MINERALS INC

[Handwritten Signature]

⑆1260⑉0004⑆ 13 80 823⑈



*This check returned
10/1/69
74*

Oil & Gas Conservation Commission
PAY TO ORDER OF ANY BANK
FOR DEPOSIT ONLY
ARIZONA STATE TREASURER

X-Clarno
X-Lambert

July 29, 1969

Memo to File 483, 118, ^{suspense} suspense

From J. A. Lambert

David Conn called me at my residence on 7-28-69, mid-afternoon. This was in response to a letter that I had written to Jacobs and given a copy to Conn. Conn assured me as an officer of the company, that we were to look to Jacobs for fulfillment of all regulations pertaining to the wells. Jacobs acts with the consent and knowledge of the officers of the company.

We have on hand a \$25 check which is meant to be the permit fee for a well to be drilled in the NW/4 NE/4 of Section 5, T41N, R28E. They are sending in all of the material necessary to complete this application. These requirements were enumerated in our letter dated July 24, 1969.

Mr. Conn indicates that he will apply for a state-wide bond, \$25,000, which will allow the other bonds to be released on establishment of that state-wide bond. He indicated that we should have telegraphic notification of this state-wide bond today.

Conn indicated that the lease-hold interest on the Globe Minerals AAA #E-3 well is held by Globe Minerals. The lease number now bears the suffix 597-A indicating an assignment out of AAA into Globe that has been authorized by the Navajo Tribe.

I discussed with him briefly the desire of AAA for an unorthodox well site. He indicated that there was no objection on the part of Globe Minerals. Globe Minerals will be circulated on the Notice for Hearing, however, and will be given the opportunity to lodge official objection or complaint.

The conversation was a pleasant discourse.

118

suspense

Post Office Box 254
Zip Code 87401

DUGAN PRODUCTION CORP.

THOMAS A. DUGAN, President
709 BLOOMFIELD Rd.
FARMINGTON, NEW MEXICO

TELEPHONE: 325-9184 Office
325-5694 Home
Area Code 505

July 28, 1969

Mr. James A. Lambert
Administrative Assistant
Arizona Oil and Gas Conservation Commission
1624 West Adams - Room 202
Phoenix, Arizona 85007

Dear Mr. Lambert:

~~We have enclosed the completed forms which you requested in your letter dated July 24, 1969. I am sorry about the delay in filing the required forms. I hope that everything is now in as required.~~

The check you received was for the re-entry permit which we hope to receive on the well I discussed with you on the phone July 21. We will file the other required forms shortly. This work will not be done for a couple of weeks.

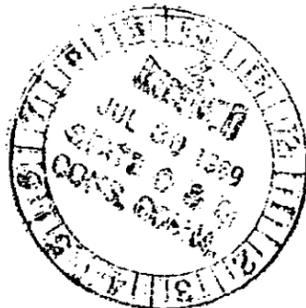
Very truly yours,

Jim L. Jacobs
Jim L. Jacobs

sc

Enc.

#118



X-Chloro
K-Lambert

July 24, 1969

Mr. Jim L. Jacobs
Globe Minerals, Incorporated
Box 234
Farmington, New Mexico 87401

Re: Globe Minerals #1 Navajo 10022
T41N, R28E, G & SRM
Sec. 5: SE/4 SE/4
Apache County
Permit #508 X

Dear Mr. Jacobs:

Please furnish us a Completion Report on the captioned well. We also request that you furnish us a completed Application to Plug and Abandon and a Plugging Report on our forms. We received the Sundry notice on this well today. The only other information the file reflects is the report you submitted dated July 7 which was subsequent to your spud date. We enclose for your information another set of instruction sheets. We feel that you have the ability to understand the published Rules and Regulations and request that you come into compliance with the terms of the Commission.

In this noon mail we received a check from Salt Lake City described as payment of a filing fee for a well to be drilled in Section 5, T41N, R28E, Apache County. We require a plat, an Application for Permit to Drill, and another bond. Also please submit a Designation of Operator report or other evidence showing that Globe Minerals has the lease-hold rights on the proposed well site property.

Yours truly,

AAA Lease Agent

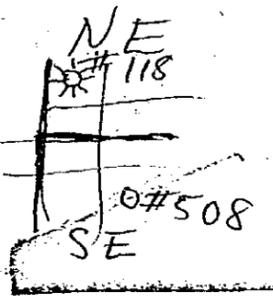
JAL:jf
Enc

James A. Lambert
Administrative Assistant

cc: Mr. D. David Conn, Salt Lake City, Utah

118

Sec 5
T41N R28E



X-ROAD
X-LAMBERT

July 21, 1969

Memo to Files 508, ^{→*}509^{→*} and 118

From J. A. Lambert

Jim Jacobs, Globe Minerals, called this date. He informs me that management is thinking about moving the rig from Globe #1 Navajo 10022, Sec.5-41N-28E, Permit #508 well site which is being plugged and abandoned to the Humble Navajo #2, Sec.5-41N-28E, Permit #118 well site rather than to the Globe #E-4 Navajo 597, Sec. 9-41N-28E, Permit #509 well site.

They want to re-enter this plugged and abandoned well. I informed them that we would need a plat, \$25, bond, Application for Permit to Re-Enter, the whole works.

John Bannister advised me that I should require evidence from them that they have lease-hold rights to this well site at the present time. Jacobs indicated that he had a Designation of Operator from AAA Fishing Tool to this site and AAA Fishing Tool is presumably the successor lessee to Humble on this group of leases.

118

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



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 959
Farmington, New Mexico

IN REPLY REFER TO:

January 15, 1962

Arizona Oil & Gas Conservation Commission
3500 North Central Avenue
Phoenix, Arizona

Gentlemen:

Please refer to page 91 of your booklet entitled "Oil, Gas and Helium in Arizona...Its Occurrence and Potential." The correct location for Humble Oil & Refining Company's Navajo Tribal #2 well, according to our records, is Section 5, T. 41 N., R. 28 E.

Very truly yours,

P. T. McGrath
District Engineer

RCBaier, Jr:imk

December 7, 1960

Humble Oil & Refining Co.
P. O. Box 2347
Hobbs, New Mexico

Attention: A. L. Carpenter

Gentlemen:

Enclosed are the approved copies of Form 55, application to plug and abandon; and Form 56, Abandonment & Plugging Record, regarding your Navajo Tribe of Indians Well #2, Sec. 5, T. 41N, R. 28E, Apache County, Arizona.

Yours very truly,

D. A. Jerome
Executive Secretary

W. F. Maule
Petroleum Engineer

WFM/ew
Enclosures (2)

HUMBLE OIL & REFINING COMPANY
MIDLAND, TEXAS

8-10-60

State Land Commissioner
Phoenix, Arizona

Re: ELEVATION

~~TEXAS PUBLIC COMMISSION~~
~~STATE LAND COMMISSION~~

Attn:

Gentlemen:

The ELEVATION of the following well is: Est 5441 DF 5432 Gr as reported by Laughlin-Simmons & Company.

COUNTY: Apache, Arizona Field: East Boundary Butte

Humble Oil & Refining Company

#2 Navajo Tribe of Indians

Sec 5, T-41-N, R-28-E

560' FNL & 1650' FBL of Sec.

The above is given you to complete your records for the Form 1, "Notice of Intention to Drill," filed with you on this well under date of:

6-28-60

HUMBLE OIL & REFINING COMPANY
R. W. BYBEE, DIV. MANAGER

By: F. H. McMahon
F. H. McMahon

FHM/lst

Orig: 1 cc. Texas RRC
cc: Mr. D. C. Fransen
Mr. R. R. McCarty
Mr. H. L. Beckman
Dist. Supt.
File



118

HUMBLE OIL & REFINING COMPANY
MIDLAND, TEXAS

6-23-30

State Land Department
Austin, Texas

Re: ELEVATION

Oil & Gas Division
Texas Railroad Commission

Attn:

Gentlemen:

The ELEVATION of the following well is: Well 3102 G-1 as
reported by Laughlin-Simmons & Company.
COUNTY: Apache, Arizona Field: Good Shepherd, Apache
Humble Oil & Refining Company
1/2 Navajo Tribe of Indians
Sec 8, T-41-N, R-28-E
200' X 1/2 & 1/2 of Sec.

The above is given you to complete your records for the form of
"Notice of Intention to Drill," filed with you on this well under date of:

6-23-30

HUMBLE OIL & REFINING COMPANY
R. W. BYBEE, DIV. MANAGER

By: F. H. McMahon
F. H. McMahon

FHM:Jef

File
Dist. Supt.
Mr. H. L. Beckman
Mr. R. R. McCarty
cc Mr. D. C. Fransen
1 cc Texas RRG
Orig:



1183

118

June 30, 1960

Area Administrator
Humble Oil & Refining Company
Box 1600
Midland, Texas

Dear Sir:

Enclosed is an approved copy of the amended application to drill and the plat, with regard to Navajo Tribe of Indians, Well #2, Sec. 5, T-41N, R-28E, Apache County, Arizona.

Yours very truly,

W. F. Mauls
Petroleum Engineer

WFM/ew
Enclosures (2)

28 118

HUMBLE OIL & REFINING COMPANY

HUMBLE DIVISION
P. O. BOX 1600

MIDLAND, TEXAS

June 28, 1960

PRODUCTION DEPARTMENT
WESTERN AREA

R. R. MCCARTY
MANAGER
J. S. BOLDRICK
OPERATIONS SUPERINTENDENT
M. L. HENSLEY
OPERATIONS SUPERINTENDENT
M. E. MEADOWS
ENGINEERING COORDINATOR
A. J. BEDFORD
ADMINISTRATIVE COORDINATOR

Mr. D. A. Jerome
Oil and Gas Conservation Commission
3500 North Central
Suite 312
Phoenix, Arizona

Dear Mr. Jerome:

Attached is the original and one copy of Amended Form P-1, Application for Permit to Drill, and Certified Unit Plats for our Navajo Tribe of Indians Well No. 2. Please note that the location has been amended to conform with Statewide Spacing of oil well in the East Boundary Butte Field.

The \$25 permit fee was transmitted to your office on June 17, and your receipt No. 9227 was issued covering same.

It is requested that the Amended location be approved at your earliest convenience.

Very truly yours,

R. R. MCCARTY

By *A. J. Bedford*

JEP:bw

Enc.

28 118

June 21, 1960

HUMBLE OIL & REFINING CO.
Mr. R. R. McCarty
Box 1600
Midland, Texas

Dear Mr. McCarty:

We enclose an approved copy of your Application to Drill the Navajo Tribe of Indians Well #2, and a receipt for the Twenty-Five Dollar (\$25.00) Permit Fee.

We sincerely hope your venture is successful.

Yours sincerely,

W. F. Maule
Petroleum Engineer

WFM/ew
Enclosures

118

HUMBLE OIL & REFINING COMPANY

HUMBLE DIVISION

P. O. BOX 1600

MIDLAND, TEXAS

June 17, 1960

PRODUCTION DEPARTMENT
WESTERN AREA

R. R. MCCARTY
MANAGER
J. S. BOLDRICK
OPERATIONS SUPERINTENDENT
H. L. HENSLEY
OPERATIONS SUPERINTENDENT
H. E. MEADOWS
ENGINEERING COORDINATOR
A. J. BEDFORD
ADMINISTRATIVE COORDINATOR

Mr. D. A. Jerome, Executive Secretary
Oil and Gas Conservation Commission
3500 North Central, Suite 312
Phoenix, Arizona

Dear Sir:

We are attaching the original and one copy of Form P-1, Application for Permit to Drill, and two copies of Certified Unit Plats for our Navajo Tribe of Indians Well No. 2. This well is located ~~500~~ feet from the North line and 1650 feet from the East line of Section 5, Township-41-North, Range-28-East, Apache County, Arizona; and further, the well is located 1725 feet south of the Utah-Arizona border, the same being the North line of Section 32, Township-42-North, Range-28-East. We plan to complete this well as an East Boundary Butte gas well.

Rule 105, Paragraph b, of the Statewide Rules and Regulations, provides that a gas well unit shall consist of one governmental section, containing not less than 600 surface acres. Please note that on the attached plat we have assigned 640 acres to the gas unit around Well No. 2. The acreage assigned consists of a portion of Section 5, and all of Section 32. The use of two partial sections for a proration unit in this instance was deemed advisable due to the location of the Utah-Arizona border, and the short sections around the state line. If you consider the two partial sections as a 640-acre drilling unit, then the location for our well is in accordance with your Statewide spacing rule. Copies of our Application to Drill and Certified Unit Plats have been furnished to Shell Oil Company and Sinclair-Skelly Oil Company as offset operators to our lease.

In addition, we are attaching a check payable to the Arizona Oil and Gas Commission in the amount of \$25.00 as provided in Rule 102.

It is requested that the location be approved as requested at your earliest convenience by administrative approval. However, if you are unable to approve the location as requested, please set this matter for hearing as provided in Rule 105 d.

20 114

Mr. D. A. Jerome
June 17, 1960
Page 2

Please forward to Mr. R. R. McCarty, Box 1600, Midland, Texas, a complete set of Arizona forms necessary to report the drilling and completing of this well.

Yours truly,

HUMBLE OIL & REFINING COMPANY

R. R. McCARTY

By *H P Hendley*

JEP:jav

Enclosures

114

HUMBLE OIL & REFINING COMPANY

HUMBLE DIVISION
P. O. BOX 1600

MIDLAND, TEXAS

June 3, 1960

PRODUCTION DEPARTMENT
WESTERN AREA

R. R. MCCARTY
MANAGER
J. S. BOLDRICK
OPERATIONS SUPERINTENDENT
H. L. HENSLEY
OPERATIONS SUPERINTENDENT
H. E. MEADOWS
ENGINEERING COORDINATOR
A. J. BEDFORD
ADMINISTRATIVE COORDINATOR

State Land Commissioner
State Land Department of Arizona
Phoenix, Arizona

Gentlemen:

Attached is original and one copy of a bond with Federal Insurance Company dated May 17, 1960, in the amount of \$10,000 to cover Humble's drilling operations in the State of Arizona.

Upon approval please return one copy of this bond to Box 1600, Midland, Texas.

Very truly yours,

R. R. MCCARTY

By H. L. Hensley

HAC:bw

Enc.



7967

154

HUMBLE OIL & REFINING COMPANY
PRODUCTION DEPARTMENT

HOUSTON 1, TEXAS

May 18, 1955

MAY 20 2 52 PM 1955

CARL E. REISTLE, JR.
DIRECTOR IN CHARGE

State Land Commissioner
Phoenix, Arizona

Dear Sir:

This is to certify that the following employees are authorized to sign forms, reports, affidavits, and other instruments required by the State Land Commissioner of Arizona:

J. W. House, Division Superintendent, West Texas Division

J. P. Ruckman, Assistant Division Superintendent, West Texas Division

L. H. Byrd, Assistant Division Superintendent, West Texas Division

M. M. Rogers, District Superintendent, Hobbs District, West Texas Division

R. M. Lilly, Assistant District Superintendent, Hobbs District, West Texas Division

R. M. Gillette, District Chief Clerk, Hobbs District, West Texas Division

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

Witness our hands and seal of the Company, this 18 day of May, A.D., 1955.

HUMBLE OIL & REFINING COMPANY

By C. E. Reistle, Jr.
Vice-President

ATTESTED:

Margaret W. Hatch
Assistant Secretary

118

HUMBLE OIL & REFINING COMPANY

MIDLAND, TEXAS

May 18, 1955

STATE LAND DEPARTMENT

MAY 20 2 52 PM 1955

J. W. HOUSE

State Land Commissioner
State of Arizona
Phoenix, Arizona

Dear Sir:

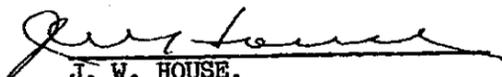
Rule 3 of the General Rules and Regulations governing the conservation of oil and gas in Arizona provides that the Commissioner shall maintain a general mailing list and shall place thereon the names and addresses of all persons, firms, or corporations who make request in writing to be included on such list. Each person, firm or corporation on such mailing list shall be mailed at the address listed, a copy of all notices and orders issued by the Commissioner.

In accordance with this rule, we respectively request that the name of Humble Oil & Refining Company be included on your mailing list and copies of all notices and hearings furnished to us as follows:

Humble Oil & Refining Co. Box 2180 Houston, Texas Attn: Mr. W. E. Hubbard (Two Copies)	Humble Oil & Refining Co. Box 2347 Hobbs, New Mexico Attn: Mr. M. M. Rogers (One Copy)	Humble Oil & Refining Co. Box 1600 Midland, Texas Attn: Mr. J. W. House (One Copy)
--	--	--

Yours very truly,

HUMBLE OIL & REFINING COMPANY


J. W. HOUSE,
Division Superintendent

AJT/se

116