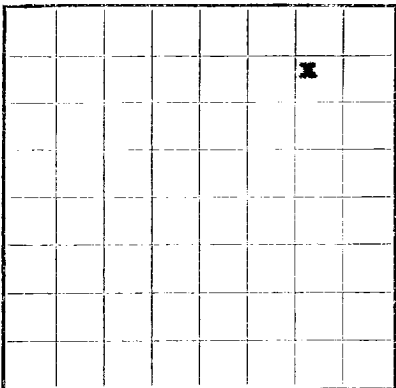




U. S. LAND OFFICE
SERIAL NUMBER
LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Humble Oil & Refining Company Address Box 2347, Hobbs, New Mexico
Lessor or Tract Jicarilla Apache Tribe of Indians Indian Land State New Mexico
Well No. 1 Sec. 1 T. 2 R. 2 Meridian N. M. P. M. County Sandoval
Location 240 ft. S. of N. Line and 790 ft. W. of W. Line of Section 1 Elevation 6784
(Derrick floor 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.
Signed _____

Date May 26, 1955 Title _____

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

Commenced drilling 2-14, 1955 Finished drilling 2-22, 1955

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

No. 1, from 5820 to 5840 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 None 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—	
1-3/8	43	21	Smith	1953.52	Box	-	-	-	Surface
4-5/8	36	20	Local	1957.00	Box	-	-	-	Intermediate
5-1/2	14 & 15.5	21	Unknown	6292.50	Box	-	5820	5840	Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
1-3/8	414.27	450	run in plug	water	
4-5/8	1970.00	800		7.2	
5-1/2	6095.00	900		7.6	

PLUGS AND ADAPTERS

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

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth of burst
500	and old	powell	-	4-2-55	6261-6266	-
500	Diesel fuel	powell	800	4-4-55	6261-6266	-
500	and old	powell	-	4-7-55	5820-5840	1000
4500	Diesel fuel	powell	1900	4-7-55	5820-5840	4700-5000
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

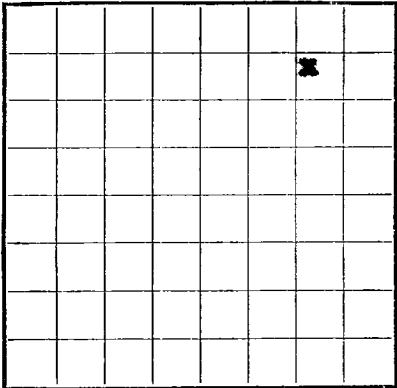
_____, 19____ Put to producing _____, 19____
The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller
J. C. Hale _____, Driller _____, Driller
Arnon Holmes _____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1760	1760	and shale
1760	1767	7	Shale
1767	1783	16	and shale
1783	1783	55	Shale
1783	1970	187	and, shale, & coal
1970	2340	370	shale and sand
2340	2366	26	Lime, shale and sand
2366	3335	969	shale and sand
3335	3420	85	shale
3420	3478	58	shale, sand & coal
3478	4047	569	shale & sand
4047	4185	138	shale, sand, dolomite & bentonite
4185	4250	65	sand & shale
4250	4274	24	sand, shale & lime
4274	4713	439	shale and sand
4713	4915	202	shale and lime
4915	5820	905	shale and sand
5820	5848	28	shale, sand & lime
5848	6023	175	sand and shale
6023	6132	109	shale and lime
6132	6368	236	shale and sand



U. S. LAND OFFICE Jicarilla Indians
SERIAL NUMBER Contract No. 49
LEASE OR PERMIT TO PROSPECT _____

UNITED STATES Jicarilla Apache Tribe
of Indians "B"
DEPARTMENT OF THE INTERIOR Co. Lse. 163717
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Humble Oil & Refining Company Address Box 2347, Hobbs, New Mexico
Lessor or Tract Jicarilla Apache Tribe of Indians Field Wildcat State New Mexico
Well No. 1 Sec. 1 T. 22-N R. 5-W Meridian N. M. P. M. County Sandoval
Location 990 ft. W of N Line and 990 ft. W of 2 Line of Section 1 Elevation 6784
(Derrick floor 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.
Signed [Signature]
Date May 26, 1955 Title Geologist

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

Commenced drilling 2-24, 1955 Finished drilling 2-30, 1955

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

No. 1, from 5820 to 5840 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 None 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—	
<u>13-3/8</u>	<u>48</u>	<u>81</u>	<u>Smith</u>	<u>398.52</u>	<u>Lat.</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>Surface</u>
<u>9-5/8</u>	<u>36</u>	<u>82</u>	<u>FAI</u>	<u>1957.00</u>	<u>Lat.</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>Intermediate</u>
<u>5-1/2</u>	<u>14 & 15.5</u>	<u>82</u>	<u>Unknown</u>	<u>6292.50</u>	<u>Lat.</u>	<u>-</u>	<u>5820</u>	<u>5840</u>	<u>Production</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>13-3/8</u>	<u>434.27</u>	<u>450</u>	<u>Pump & plug</u>	<u>water</u>	
<u>9-5/8</u>	<u>1970.00</u>	<u>850</u>	<u>"</u>	<u>9.2</u>	
<u>5-1/2</u>	<u>6305.00</u>	<u>900</u>	<u>"</u>	<u>9.6</u>	

PLUGS AND ADAPTERS

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

SHOOTING RECORD

Size	Type fluid	Explosive used	Quantity	Date	Depth shot	Depth of penetration
<u>Gallons</u>	<u>Shell used</u>	<u>Serv. Co.</u>	<u>Sand</u>	<u>or</u>		
<u>500</u>	<u>Mad Acid</u>	<u>Dowell</u>	<u>-</u>	<u>4-3-55</u>	<u>6261-6266</u>	<u>-</u>
<u>3500</u>	<u>Diesel Fuel</u>	<u>Dowell</u>	<u>2800</u>	<u>4-4-55</u>	<u>6261-6266</u>	<u>-</u>
<u>500</u>	<u>Mad Acid</u>	<u>Dowell</u>	<u>-</u>	<u>4-7-55</u>	<u>5820-5840</u>	<u>2000</u>
<u>4500</u>	<u>Diesel Fuel</u>	<u>Dowell</u>	<u>1900</u>	<u>5-9-55</u>	<u>5820-5840</u>	<u>4700-5500</u>

Rotary tools were used from surface feet to 6368 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing _____, 19____
May 26, 1955 The production for the first 24 hours was 76.37 barrels of fluid of which 100 % was oil; _____ %
emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. 38.9
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller
J. R. Hale _____, Driller Jeff Copeland _____, Driller
Aaron Holmes _____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>1360</u>	<u>1360</u>	<u>Sand and shale</u>
<u>1360</u>	<u>1563</u>	<u>203</u>	<u>Shale</u> <u>Ojo Alamo T-1505</u>
<u>1563</u>	<u>1728</u>	<u>165</u>	<u>Sand & shale</u> <u>Kirtland-Kirtland T-1590</u>
<u>1728</u>	<u>1783</u>	<u>55</u>	<u>Shale</u>
<u>1783</u>	<u>1970</u>	<u>187</u>	<u>Sand, shale, & coal</u> <u>Pictured Cliffs T-1910</u>
<u>1970</u>	<u>2340</u>	<u>370</u>	<u>Shale and sand</u> <u>Lordsburg T-1980</u>
<u>2340</u>	<u>2866</u>	<u>526</u>	<u>Lime, shale and sand</u>
<u>2866</u>	<u>3335</u>	<u>469</u>	<u>Shale and sand</u>
<u>3335</u>	<u>3420</u>	<u>85</u>	<u>Shale</u>
<u>3420</u>	<u>3478</u>	<u>58</u>	<u>Shale, sand & coal</u> <u>Man Verde T-3426</u>
<u>3478</u>	<u>4047</u>	<u>569</u>	<u>Shale & sand</u>
<u>4047</u>	<u>4185</u>	<u>138</u>	<u>Shale, sand, dolomite & bentonite</u>
<u>4185</u>	<u>4250</u>	<u>65</u>	<u>Sand & shale</u>
<u>4250</u>	<u>4274</u>	<u>24</u>	<u>Sand, shale & lime</u> <u>Muroes T-4258</u>
<u>4274</u>	<u>4713</u>	<u>439</u>	<u>Shale and sand</u>
<u>4713</u>	<u>4915</u>	<u>202</u>	<u>Shale and lime</u>
<u>4915</u>	<u>5820</u>	<u>905</u>	<u>Shale and sand</u>
<u>5820</u>	<u>5840</u>	<u>20</u>	<u>Shale, sand & lime</u>
<u>5840</u>	<u>6003</u>	<u>179</u>	<u>Sand and shale</u>
<u>6003</u>	<u>6132</u>	<u>129</u>	<u>Shale and lime</u>
<u>6132</u>	<u>6368</u>	<u>236</u>	<u>Shale and sand</u> <u>Dakota T-6234</u> <u>Morrison T-6346</u>



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.

The well was drilled to a total depth of 6368 feet at which point logs were run. The hole was plugged back with 75 sacks of cement to a depth of 6302 feet, and 5-1/2-inch casing was set at this point. The casing was perforated from 6263 to 6260 feet, treated with 500 gallons of mud and acid followed by 1500 gallons of diesel fuel and sand. Following this treatment the well yielded 100% water. A cement retainer was set at 6200 feet and the perforated interval above was cemented. The casing was perforated from 5820 to 5810 after setting a bridge plug at 5810 feet. The well was treated with 500 gallons of mud and acid followed by 4500 gallons of diesel fuel and sand, after which the well yielded at the rate of 5 barrels of pipe line oil per hour. At present the well is pumping an average of 36.95 barrels of oil per day.

HISTORY OF OIL OR GAS WELL									
DATE	TYPE	FORMATION TESTED	TEST CHOKES	LOG. REM.	FEET UPON FORMATION TESTED	REMARKS	DATE	TYPE	FORMATION TESTED
1955	2-22	0. H.	1512	1563	1	3/4	47	775	1000
3-7	0. H.	3607	3649	1	3/4	60	1150	120	30
3-10	0. H.	4217	4222	1	3/4	60	1275	25	
3-11	0. H.	4211	4250	1	3/4	53	150	10	
3-15	0. H.	4419	4486	1	3/4	38	0	30	
3-16	0. H.	4903	4933	1	3/4	42	0	35	
3-18	0. H.	4954	4966	1	3/4	75	8000	1140	
3-24	0. H.	5316	5380	1	3/4	90	150	60	
3-26	0. H.	5760	5838	1	3/4	90	375	205	
3-28	0. H.	6219	6284	1	3/4	60	100	20	