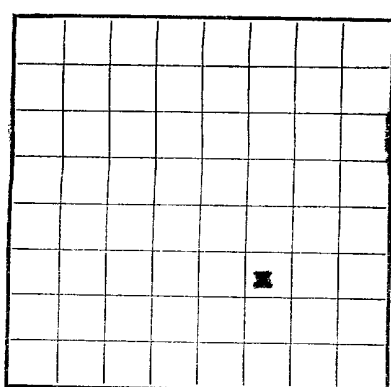
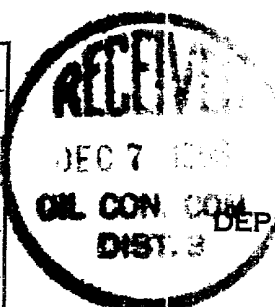




LOCATE WELL CORRECTLY

U. S. LAND OFFICE Navajo
SERIAL NUMBER 14-20-603-592
Co. LEASE OR PERMIT TO PROSPECT 221461UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Humble Oil & Refining Company Address Box 2180, Houston 1, Texas
Lessor or Tract Navajo Tribe of Indians "B" Field A Corners Paradox State New Mexico
Well No. 3 Sec. 30 T. 12N R. 20W Meridian _____ County San Juan
Location 1650 ft. N. of 3 Line and 1650 ft. W. of 1 Line of Section 30 Elevation 4713
(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 Russell M. Miller
Date December, 4, 1956 Title District Superintendent

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

Commenced drilling 10-3-56, 19____ Finished drilling 12-1-56, 19____

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 850 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>8</u>	<u>STAC</u>	<u>289</u>	<u>Hall</u>				
<u>9-5/8</u>	<u>30</u>	<u>8</u>	<u>STAC</u>	<u>140</u>	<u>Hall</u>				
HISTORY OF OIL OR GAS WELL									

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>304</u>	<u>350</u>	<u>Pumped</u>	<u>10.68</u>	
<u>9-5/8</u>	<u>1492</u>	<u>400</u>	<u>Pumped</u>	<u>-</u>	

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
			<u>None</u>			

TOOLS USED

Rotary tools were used from 0 feet to 6060 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Plugged and abandoned as dry hole
Put to producing 12-1-56, 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

G. H. Meyhan, Driller T. W. Hirston, Driller
Arvin Holmes, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>39</u>	<u>39</u>	<u>Surface</u>
<u>39</u>	<u>309</u>	<u>270</u>	<u>Sand & rock</u>
<u>309</u>	<u>3555</u>	<u>3246</u>	<u>Sand & shale</u>
<u>3555</u>	<u>3674</u>	<u>119</u>	<u>Shale</u>
<u>3674</u>	<u>3825</u>	<u>151</u>	<u>Shale and anhydrite</u>
<u>3825</u>	<u>4335</u>	<u>510</u>	<u>Sand & shale</u>
<u>4335</u>	<u>4701</u>	<u>x 366</u>	<u>Sand, shale & lime</u>
<u>4701</u>	<u>4792</u>	<u>91</u>	<u>Shale, lime & gypsum</u>
<u>4792</u>	<u>4977</u>	<u>185</u>	<u>Shale & lime</u>
<u>4977</u>	<u>5020</u>	<u>43</u>	<u>Shale, lime & chert</u>
<u>5020</u>	<u>5393</u>	<u>373</u>	<u>Shale, lime & shale</u>
<u>5393</u>	<u>5656</u>	<u>263</u>	<u>Cores No. 1 to No. 12</u>
<u>5656</u>	<u>5776</u>	<u>120</u>	<u>Lime & shale</u>
<u>5776</u>	<u>5890</u>	<u>114</u>	<u>Lime, shale and anhydrite</u>
<u>5890</u>	<u>6060 TD</u>	<u>170</u>	<u>Lime & shale</u>
FROM	TO	TOTAL FEET	FORMATION

(OVER)

16-48094-8

FORMATION RECORD—Continued

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATED AT 3500000

The running of the cage is for the condition of the well at above date.

(b) (7)(C), (b) (7)(D)

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

REPORTING WATER SALES

[illegible]

CLASSIFIED

Country	Amount	Unit of Price	Out and Inland	From	To
France					

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.

HISTORY OF OIL OR GAS WELL

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

[illegible]

Humble Oil & Refining Company
Navajo Tribe of Indians "B" No. 3

WELL HISTORY

Drilled to a total depth of 6060'.

This well casing at 304' w/350 sacks neat cement. Set 1486', 9-5/8" casing at 1498' gel and 150 sacks neat cement. Temperature survey found top of cement at 900'. 5/8" casing & w/2" - 1/2" holes at 885'. Cemented 2nd. stage w/400 sacks 6% gel & neat cement. Drilled to 5393' and started coring and testing.

From 5393 to 5445 - recovered 52': 12' black, hard, lincy shale; 10' light and very finely crystalline limestone, tight, NS; 2' gray, very finely crystalline, fair porosity, slightly bleeding oil and gas, looks wet; 12' gray, very finely crystalline anhydrite limestone, NS; 5' gray, very finely crystalline fossiliferous limestone; 3' gray very finely crystalline limestone, fair scattered porosity, slightly bleeding oil; 8'

gray, very finely crystalline limestone, NS. TO 1 hr. Weak blow throughout. Recovered 5' gray, very finely crystalline limestone, NS. Bottom hole temp. 133°.

DST No. 1 from 5385 to 5445 - recovered 34': 2' light gray hard limestone; 18' light gray slightly gas cut drilling mud. Bottom hole temp. 133°.

Core No. 2 from 5445 to 5501 - recovered 20': 8' dark gray hard limestone and shale; 4' gray fossiliferous limestone; 8' dark gray hard limestone and shale; 4' gray hard limestone; 4' gray hard limestone w/show of porosity & fluorescence; 4' gray hard limestone w/good fluorescence and odor.

DST No. 2 from 5445 to 5501 - recovered 20': 8' dark gray hard limestone and shale; 4' gray fossiliferous limestone; 8' dark gray hard limestone and shale; 4' gray hard limestone w/good fluorescence and odor. TO 3 hrs. Good blow throughout. Recovered 5' gray, very finely crystalline limestone, NS. Bottom hole temp. 133°.

Core No. 3 from 5501 to 5553 - recovered 32': 19' gray fossiliferous coarse limestone, looks water. IM 2940#, min FP 100#, max FP 685#. BU 2500# after 30 min. Test satisfactory.

Core No. 4 from 5553 to 5563 - recovered 29': 25' black hard shale; 2' gray limestone, NS; 2' wet, salty, slightly bleeding oil and gas.

Core No. 5 from 5563 to 5573 - recovered 10' dark gray to brown dense shaly limestone, NS.

Core No. 6 from 5573 to 5583 - recovered 10' dark gray limestone w/shale partings, NS.

Core No. 7 from 5583 to 5593 - recovered 11': 4' gray dense limestone w/tight fractures; 1' gray limestone w/trace of oil and gas bleeding from fractures; 1' gray limestone w/trace of oil and gas bleeding from fractures, bleeding oil & gas; 1' gray dense limestone w/trace of oil and gas bleeding from fractures; 4' gray dense limestone.

Core No. 8 from 5593 to 5613 - recovered 13' gray shaly limestone w/streaks of anhydrite and w/odor, tight no shows.

Core No. 9 from 5613 to 5629 - recovered 16': 5' dark gray shaly and carbonaceous limestone gas bubbles bleeding from stylolites; 11' dark gray dense limestone, few gas bubbles along stylolites.

Core No. 10 from 5629 to 5644 - recovered 15': 15' dark gray dense limestone w/a few black stylolites.

Core No. 11 from 5644 to 5664 - recovered 15': 15' dark gray dense limestone w/a few black stylolites.

Core No. 12 from 5664 to 5684 - recovered 15': 15' dark gray dense limestone w/a few black stylolites.

Core No. 13 from 5684 to 5704 - recovered 15': 15' dark gray dense limestone w/a few black stylolites.

Core No. 14 from 5704 to 5724 - recovered 15': 15' dark gray dense limestone w/a few black stylolites.

Core No. 15 from 5724 to 5744 - recovered 15': 15' dark gray dense limestone w/a few black stylolites.

Core No. 16 from 5744 to 5764 - recovered 15': 15' dark gray dense limestone w/a few black stylolites.

Core No. 17 from 5764 to 5784 - recovered 15': 15' dark gray dense limestone w/a few black stylolites.

Core No. 18 from 5784 to 5804 - recovered 15': 15' dark gray dense limestone w/a few black stylolites.

Core No. 19 from 5804 to 5824 - recovered 15': 15' dark gray dense limestone w/a few black stylolites.

Core No. 20 from 5824 to 5844 - recovered 15': 15' dark gray dense limestone w/a few black stylolites.

Core No. 21 from 5844 to 5864 - recovered 15': 15' dark gray dense limestone w/a few black stylolites.

Core No. 22 from 5864 to 5884 - recovered 15': 15' dark gray dense limestone w/a few black stylolites.

Core No. 23 from 5884 to 5904 - recovered 15': 15' dark gray dense limestone w/a few black stylolites.

Core No. 24 from 5904 to 5924 - recovered 15': 15' dark gray dense limestone w/a few black stylolites.

Core No. 25 from 5924 to 5944 - recovered 15': 15' dark gray dense limestone w/a few black stylolites.

Core No. 26 from 5944 to 5964 - recovered 15': 15' dark gray dense limestone w/a few black stylolites.

Core No. 27 from 5964 to 5984 - recovered 15': 15' dark gray dense limestone w/a few black stylolites.

Core No. 28 from 5984 to 6004 - recovered 15': 15' dark gray dense limestone w/a few black stylolites.

Core No. 29 from 6004 to 6024 - recovered 15': 15' dark gray dense limestone w/a few black stylolites.

Core No. 30 from 6024 to 6044 - recovered 15': 15' dark gray dense limestone w/a few black stylolites.

