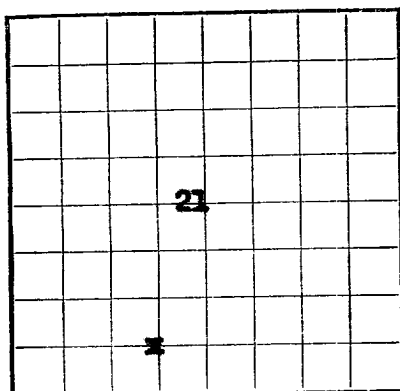


U. S. LAND OFFICE **Navajo**
SERIAL NUMBER **14-20-603-599**
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Humble Oil & Refining Company Address Box 3082, Durango, Colorado
 Lessor or Tract Core Hole Field Wildcat State New Mexico
 Well No. 15 Sec. 21 T. 31N R. 16W Meridian NMPM County San Juan
 Location 660 ft. [N] of S Line and 1980 ft. [E] of W Line of Section 21 Elevation 4968' UG
 (S) (W) (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.

COPY (ORIGINAL) R. M. BRADLEY

Date February 9, 1962

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

Commenced drilling November 16, 1961 Finished drilling November 19, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from G 550 to 557 No. 4, from _____ to _____
 No. 2, from 563 to 570 No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

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

CASING RECORD

[illegible]

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
None					

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

TOOLS USED

Rotary tools were used from 0 feet to 650' feet, and from _____ feet to _____ feet.

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

DATES

Put to producing **Plugged: 1-13-**_____, 19**62**

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 -----

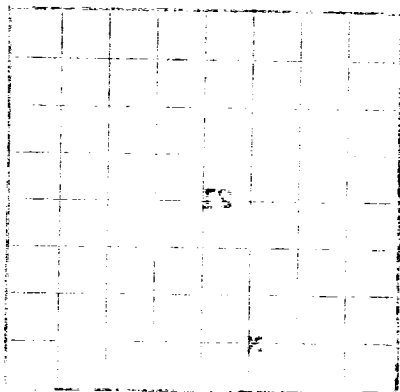
Rock pressure, lbs. per sq. in. -----

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	550	550	Mancos
550	581	31	Gallup
581	650	69	Sansate



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCAL WELL CORRELATION

Location of well, State, County, Township, Range, Section, and other data.
The information given here is a summary of the well and all work done thereon.
The information given here is a summary of the well and all work done thereon.
The information given here is a summary of the well and all work done thereon.

Summary of the well and all work done thereon.
The summary of this page is for the condition of the well at above date.
Completed drilling, finished drilling, and other data.

OIL OR GAS SANDS OR ROCKS		Casing Record	
No. 1, from 1-13-62, to 1-13-62, from 0-100' to 100' 4" ss. and from 100' 4" to 100' 8" ss.	No. 1, from 1-13-62, to 1-13-62, from 0-100' to 100' 4" ss. and from 100' 4" to 100' 8" ss.	No. 1, from 1-13-62, to 1-13-62, from 0-100' to 100' 4" ss. and from 100' 4" to 100' 8" ss.	No. 1, from 1-13-62, to 1-13-62, from 0-100' to 100' 4" ss. and from 100' 4" to 100' 8" ss.
No. 2, from 1-13-62, to 1-13-62, from 0-100' to 100' 4" ss. and from 100' 4" to 100' 8" ss.	No. 2, from 1-13-62, to 1-13-62, from 0-100' to 100' 4" ss. and from 100' 4" to 100' 8" ss.	No. 2, from 1-13-62, to 1-13-62, from 0-100' to 100' 4" ss. and from 100' 4" to 100' 8" ss.	No. 2, from 1-13-62, to 1-13-62, from 0-100' to 100' 4" ss. and from 100' 4" to 100' 8" ss.
No. 3, from 1-13-62, to 1-13-62, from 0-100' to 100' 4" ss. and from 100' 4" to 100' 8" ss.	No. 3, from 1-13-62, to 1-13-62, from 0-100' to 100' 4" ss. and from 100' 4" to 100' 8" ss.	No. 3, from 1-13-62, to 1-13-62, from 0-100' to 100' 4" ss. and from 100' 4" to 100' 8" ss.	No. 3, from 1-13-62, to 1-13-62, from 0-100' to 100' 4" ss. and from 100' 4" to 100' 8" ss.
No. 4, from 1-13-62, to 1-13-62, from 0-100' to 100' 4" ss. and from 100' 4" to 100' 8" ss.	No. 4, from 1-13-62, to 1-13-62, from 0-100' to 100' 4" ss. and from 100' 4" to 100' 8" ss.	No. 4, from 1-13-62, to 1-13-62, from 0-100' to 100' 4" ss. and from 100' 4" to 100' 8" ss.	No. 4, from 1-13-62, to 1-13-62, from 0-100' to 100' 4" ss. and from 100' 4" to 100' 8" ss.

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, 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

FORMATION RECORD		Casing Record	
FROM -	TO -	FROM -	TO -
0	100	0	100
100	200	100	200
200	300	200	300
300	400	300	400
400	500	400	500
500	600	500	600
600	700	600	700
700	800	700	800
800	900	800	900
900	1000	900	1000
1000	1100	1000	1100
1100	1200	1100	1200
1200	1300	1200	1300
1300	1400	1300	1400
1400	1500	1400	1500
1500	1600	1500	1600
1600	1700	1600	1700
1700	1800	1700	1800
1800	1900	1800	1900
1900	2000	1900	2000
2000	2100	2000	2100
2100	2200	2100	2200
2200	2300	2200	2300
2300	2400	2300	2400
2400	2500	2400	2500
2500	2600	2500	2600
2600	2700	2600	2700
2700	2800	2700	2800
2800	2900	2800	2900
2900	3000	2900	3000
3000	3100	3000	3100
3100	3200	3100	3200
3200	3300	3200	3300
3300	3400	3300	3400
3400	3500	3400	3500
3500	3600	3500	3600
3600	3700	3600	3700
3700	3800	3700	3800
3800	3900	3800	3900
3900	4000	3900	4000
4000	4100	4000	4100
4100	4200	4100	4200
4200	4300	4200	4300
4300	4400	4300	4400
4400	4500	4400	4500
4500	4600	4500	4600
4600	4700	4600	4700
4700	4800	4700	4800
4800	4900	4800	4900
4900	5000	4900	5000
5000	5100	5000	5100
5100	5200	5100	5200
5200	5300	5200	5300
5300	5400	5300	5400
5400	5500	5400	5500
5500	5600	5500	5600
5600	5700	5600	5700
5700	5800	5700	5800
5800	5900	5800	5900
5900	6000	5900	6000
6000	6100	6000	6100
6100	6200	6100	6200
6200	6300	6200	6300
6300	6400	6300	6400
6400	6500	6400	6500
6500	6600	6500	6600
6600	6700	6600	6700
6700	6800	6700	6800
6800	6900	6800	6900
6900	7000	6900	7000
7000	7100	7000	7100
7100	7200	7100	7200
7200	7300	7200	7300
7300	7400	7300	7400
7400	7500	7400	7500
7500	7600	7500	7600
7600	7700	7600	7700
7700	7800	7700	7800
7800	7900	7800	7900
7900	8000	7900	8000
8000	8100	8000	8100
8100	8200	8100	8200
8200	8300	8200	8300
8300	8400	8300	8400
8400	8500	8400	8500
8500	8600	8500	8600
8600	8700	8600	8700
8700	8800	8700	8800
8800	8900	8800	8900
8900	9000	8900	9000
9000	9100	9000	9100
9100	9200	9100	9200
9200	9300	9200	9300
9300	9400	9300	9400
9400	9500	9400	9500
9500	9600	9500	9600
9600	9700	9600	9700
9700	9800	9700	9800
9800	9900	9800	9900
9900	10000	9900	10000
10000	10100	10000	10100
10100	10200	10100	10200
10200	10300	10200	10300
10300	10400	10300	10400
10400	10500	10400	10500
10500	10600	10500	10600
10600	10700	10600	10700
10700	10800	10700	10800
10800	10900	10800	10900
10900	11000	10900	11000
11000	11100	11000	11100
11100	11200	11100	11200
11200	11300	11200	11300
11300	11400	11300	11400
11400	11500	11400	11500
11500	11600	11500	11600
11600	11700	11600	11700
11700	11800	11700	11800
11800	11900	11800	11900
11900	12000	11900	12000
12000	12100	12000	12100
12100	12200	12100	12200
12200	12300	12200	12300
12300	12400	12300	12400
12400	12500	12400	12500
12500	12600	12500	12600
12600	12700	12600	12700
12700	12800	12700	12800
12800	12900	12800	12900
12900	13000	12900	13000
13000	13100	13000	13100
13100	13200	13100	13200
13200	13300	13200	13300
13300	13400	13300	13400
13400	13500	13400	13500
13500	13600	13500	13600
13600	13700	13600	13700
13700	13800	13700	13800
13800	13900	13800	13900
13900	14000	13900	14000
14000	14100	14000	14100
14100	14200	14100	14200
14200	14300	14200	14300
14300	14400	14300	14400
14400	14500	14400	14500
14500	14600	14500	14600
14600	14700	14600	14700
14700	14800	14700	14800
14800	14900	14800	14900
14900	15000	14900	15000
15000	15100	15000	15100
15100	15200	15100	15200
15200	15300	15200	15300
15300	15400	15300	15400
15400	15500	15400	15500
15500	15600	15500	15600
15600	15700	15600	15700
15700	15800	15700	15800
15800	15900	15800	15900
15900	16000	15900	16000
16000	16100	16000	16100
16100	16200	16100	16200
16200	16300	16200	16300
16300	16400	16300	16400
16400	16500	16400	16500
16500	16600	16500	16600
16600	16700	16600	16700
16700	16800	16700	16800
16800	16900	16800	16900
16900	17000	16900	17000
17000	17100	17000	17100
17100	17200	17100	17200
17200	17300	17200	17300
17300	17400	17300	17400
17400	17500	17400	17500
17500	17600	17500	17600
17600	17700	17600	17700
17700	17800	17700	17800
17800	17900	17800	17900
17900	18000	17900	18000
18000	18100	18000	18100
18100	18200	18100	18200
18200	18300	18200	18300
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19000	19100	19000	19100
19100	19200	19100	19200
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19400	19500	19400	19500
19500	19600	19500	19600
19600	19700	19600	19700
19700	19800	19700	19800
19800	19900	19800	19900
19900	20000	19900	20000
20000	20100	20000	20100
20100	20200	20100	20200
20200	20300	20200	20300
20300	20400	20300	20400
20400	20500	20400	20500
20500	20600	20500	20600
20600	20700	20600	20700
20700	20800	20700	20800
20800	20900	20800	20900
20900	21000	20900	21000
21000	21100	21000	21100
21100	21200	21100	21200
21200	21300	21200	21300
21300	21400	21300	21400
21400	21500	21400	21500
21500	21600	21500	21600
21600	21700	21600	21700
21700	21800	21700	21800
21800	21900	21800	21900
21900	22000	21900	22000
22000	22100	22000	22100
22100	22200	22100	22200
22200	22300	22200	22300
22300	22400	22300	22400
22400	22500	22400	22500
22500	22600	22500	22600
22600	22700	22600	22700
22700	22800	22700	22800
22800	22900	22800	22900
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23000	23100	23000	23100
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23200	23300	23200	23300
23300	23400	23300	23400
23400	23500	23400	23500
23500	23600	23500	23600
23600	23700	23600	23700
23700	23800	23700	23800
23800	23900	23800	23900
23900	24000	23900	24000
24000	24100	24000	24100
24100	24200	24100	24200
24200	24300	24200	24300
24300	24400	24300	24400
24400	24500	24400	24500
24500	24600	24500	24600
24600	24700	24600	24700
24700	24800	24700	24800
24800	24900	24800	24