

[illegible]

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Humble Oil & Refining Company Address P. O. Box 3082, Durango, Colorado
 Lessor or Tract Navajo Tribe of Indians G Field Many Rocks State New Mexico
 Well No. 23 Sec. 1 T. 31N R. 17W Meridian N.M.P.M. County San Juan
 Location 2310 ft. N. of S Line and 990 ft. E. of W Line of Section 1 Elevation 5319' DF

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 **COPY (ORIGINAL SIGNED) B. M. BRADLEY** B. M. Bradley

Date December 31, 1963

Title District Production Super.

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

Commenced drilling December 2, 1963 Finished drilling December 5, 1963

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

(Denote gas by G)

No. 1, from 1208 to 1216	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. 2, from _____ to _____

No. 3, 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—	
7 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
8 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
9 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
10 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
11 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
12 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
13 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
14 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
15 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
16 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
17 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
18 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
19 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
20 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
21 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
22 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
23 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
24 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
25 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
26 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
27 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
28 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
29 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
30 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
31 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
32 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
33 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
34 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
35 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
36 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
37 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
38 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
39 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
40 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
41 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
42 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
43 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
44 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
45 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
46 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
47 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
48 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
49 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
50 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
51 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
52 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
53 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
54 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
55 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
56 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
57 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
58 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
59 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
60 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
61 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
62 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
63 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
64 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
65 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
66 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
67 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
68 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
69 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
70 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
71 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
72 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
73 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
74 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
75 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
76 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
77 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
78 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
79 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
80 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
81 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
82 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
83 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
84 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
85 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
86 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
87 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
88 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
89 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
90 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
91 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
92 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
93 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
94 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
95 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
96 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
97 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
98 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
99 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface
100 1/2	20#	8rd	J-55	314	1044	1044	1044	1044	Surface

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
7"	45'	10			
2-7/8"	1255'	135			

PLUGS AND ADAPTERS

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

SHOOTING RECORD

[illegible]

TOOLS USED

Rotary tools were used from 0 feet to 1255 feet, and from _____ feet to _____ feet.
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet.

DATES

Comp. 12-15-63 for injection _____
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
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1058	1058	Mancos
1058	1208	150	Gallup
1208	1255 TD	47	Gallup Sand

LOKATION RECORD--CONTINUED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Completed 12-15-63 as a water injection well injecting into the Gallup, 1206-1216, fractured.

LOGS RUN: Formation Density Log, Spontaneous Potential Log, No. 3 from 1206-1216.

No cores taken.

No drill stem tests taken.

Spudded 12-2-63.

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

10-43094-2 U. S. GOVERNMENT PRINTING OFFICE

FROM—	TO—	TOTAL FEET	FORMATION
1206	1216	10	GALLUP
1216	1226	10	GALLUP
1226	1236	10	GALLUP
1236	1246	10	GALLUP
1246	1256	10	GALLUP
1256	1266	10	GALLUP
1266	1276	10	GALLUP
1276	1286	10	GALLUP
1286	1296	10	GALLUP
1296	1306	10	GALLUP
1306	1316	10	GALLUP
1316	1326	10	GALLUP
1326	1336	10	GALLUP
1336	1346	10	GALLUP
1346	1356	10	GALLUP
1356	1366	10	GALLUP
1366	1376	10	GALLUP
1376	1386	10	GALLUP
1386	1396	10	GALLUP
1396	1406	10	GALLUP
1406	1416	10	GALLUP
1416	1426	10	GALLUP
1426	1436	10	GALLUP
1436	1446	10	GALLUP
1446	1456	10	GALLUP
1456	1466	10	GALLUP
1466	1476	10	GALLUP
1476	1486	10	GALLUP
1486	1496	10	GALLUP
1496	1506	10	GALLUP
1506	1516	10	GALLUP
1516	1526	10	GALLUP
1526	1536	10	GALLUP
1536	1546	10	GALLUP
1546	1556	10	GALLUP
1556	1566	10	GALLUP
1566	1576	10	GALLUP
1576	1586	10	GALLUP
1586	1596	10	GALLUP
1596	1606	10	GALLUP
1606	1616	10	GALLUP
1616	1626	10	GALLUP
1626	1636	10	GALLUP
1636	1646	10	GALLUP
1646	1656	10	GALLUP
1656	1666	10	GALLUP
1666	1676	10	GALLUP
1676	1686	10	GALLUP
1686	1696	10	GALLUP
1696	1706	10	GALLUP
1706	1716	10	GALLUP
1716	1726	10	GALLUP
1726	1736	10	GALLUP
1736	1746	10	GALLUP
1746	1756	10	GALLUP
1756	1766	10	GALLUP
1766	1776	10	GALLUP
1776	1786	10	GALLUP
1786	1796	10	GALLUP
1796	1806	10	GALLUP
1806	1816	10	GALLUP
1816	1826	10	GALLUP
1826	1836	10	GALLUP
1836	1846	10	GALLUP
1846	1856	10	GALLUP
1856	1866	10	GALLUP
1866	1876	10	GALLUP
1876	1886	10	GALLUP
1886	1896	10	GALLUP
1896	1906	10	GALLUP
1906	1916	10	GALLUP
1916	1926	10	GALLUP
1926	1936	10	GALLUP
1936	1946	10	GALLUP
1946	1956	10	GALLUP
1956	1966	10	GALLUP
1966	1976	10	GALLUP
1976	1986	10	GALLUP
1986	1996	10	GALLUP
1996	2006	10	GALLUP
2006	2016	10	GALLUP
2016	2026	10	GALLUP
2026	2036	10	GALLUP
2036	2046	10	GALLUP
2046	2056	10	GALLUP
2056	2066	10	GALLUP
2066	2076	10	GALLUP
2076	2086	10	GALLUP
2086	2096	10	GALLUP
2096	2106	10	GALLUP
2106	2116	10	GALLUP
2116	2126	10	GALLUP
2126	2136	10	GALLUP
2136	2146	10	GALLUP
2146	2156	10	GALLUP
2156	2166	10	GALLUP
2166	2176	10	GALLUP
2176	2186	10	GALLUP
2186	2196	10	GALLUP
2196	2206	10	GALLUP
2206	2216	10	GALLUP
2216	2226	10	GALLUP
2226	2236	10	GALLUP
2236	2246	10	GALLUP
2246	2256	10	GALLUP
2256	2266	10	GALLUP
2266	2276	10	GALLUP
2276	2286	10	GALLUP
2286	2296	10	GALLUP
2296	2306	10	GALLUP
2306	2316	10	GALLUP
2316	2326	10	GALLUP
2326	2336	10	GALLUP
2336	2346	10	GALLUP
2346	2356	10	GALLUP
2356	2366	10	GALLUP
2366	2376	10	GALLUP
2376	2386	10	GALLUP
2386	2396	10	GALLUP
2396	2406	10	GALLUP
2406	2416	10	GALLUP
2416	2426	10	GALLUP
2426	2436	10	GALLUP
2436	2446	10	GALLUP
2446	2456	10	GALLUP
2456	2466	10	GALLUP
2466	2476	10	GALLUP
2476	2486	10	GALLUP
2486	2496	10	GALLUP
2496	2506	10	GALLUP
2506	2516	10	GALLUP
2516	2526	10	GALLUP
2526	2536	10	GALLUP
2536	2546	10	GALLUP
2546	2556	10	GALLUP
2556	2566	10	GALLUP
2566	2576	10	GALLUP
2576	2586	10	GALLUP
2586	2596	10	GALLUP
2596	2606	10	GALLUP
2606	2616	10	GALLUP
2616	2626	10	GALLUP
2626	2636	10	GALLUP
2636	2646	10	GALLUP
2646	2656	10	GALLUP
2656	2666	10	GALLUP
2666	2676	10	GALLUP
2676	2686	10	GALLUP
2686	2696	10	GALLUP
2696	2706	10	GALLUP
2706	2716	10	GALLUP
2716	2726	10	GALLUP
2726	2736	10	GALLUP
2736	2746	10	GALLUP
2746	2756	10	GALLUP
2756	2766	10	GALLUP
2766	2776	10	GALLUP
2776	2786	10	GALLUP
2786	2796	10	GALLUP
2796	2806	10	GALLUP
2806	2816	10	GALLUP
2816	2826	10	GALLUP
2826	2836	10	GALLUP
2836	2846	10	GALLUP
2846	2856	10	GALLUP
2856	2866	10	GALLUP
2866	2876	10	GALLUP
2876	2886	10	GALLUP
2886	2896	10	GALLUP
2896	2906	10	GALLUP
2906	2916	10	GALLUP
2916	2926	10	GALLUP
2926	2936	10	GALLUP
2936	2946	10	GALLUP
2946	2956	10	GALLUP
2956	2966	10	GALLUP
2966	2976	10	GALLUP
2976	2986	10	GALLUP
2986	2996	10	GALLUP
2996	3006	10	GALLUP
3006	3016	10	GALLUP
3016	3026	10	GALLUP
3026	3036	10	GALLUP
3036	3046	10	GALLUP
3046	3056	10	GALLUP
3056	3066	10	GALLUP
3066	3076	10	GALLUP
3076	3086	10	GALLUP
3086	3096	10	GALLUP
3096	3106	10	GALLUP
3106	3116	10	GALLUP
3116	3126	10	GALLUP
3126	3136	10	GALLUP
3136	3146	10	GALLUP
3146	3156	10	GALLUP
3156	3166	10	GALLUP
3166	3176	10	GALLUP
3176	3186	10	GALLUP
3186	3196	10	GALLUP
3196	3206	10	GALLUP
3206	3216	10	GALLUP
3216	3226	10	GALLUP
3226	3236	10	GALLUP
3236	3246	10	GALLUP
3246	3256	10	GALLUP
3256	3266	10	GALLUP
3266	3276	10	GALLUP
3276	3286	10	GALLUP
3286	3296	10	GALLUP
3296	3306	10	GALLUP
3306	3316	10	GALLUP
3316	3326	10	GALLUP
3326	3336	10	GALLUP
3336	3346	10	GALLUP
3346	3356	10	GALLUP
3356	3366	10	GALLUP
3366	3376	10	GALLUP
3376	3386	10	GALLUP
3386	3396	10	GALLUP
3396	3406	10	GALLUP
3406	3416	10	GALLUP
3416	3426	10	GALLUP
3426	3436	10	GALLUP
3436	3446	10	GALLUP
3446	3456	10	GALLUP
3456	3466	10	GALLUP
3466	3476	10	GALLUP
3476	3486	10	GALLUP
3486	3496	10	GALLUP
3496	3506	10	GALLUP
3506	3516	10	GALLUP
3516	3526	10	GALLUP
3526	3536	10	GALLUP
3536	3546	10	GALLUP
3546	3556	10	GALLUP
3556	3566	10	GALLUP
3566	3576	10	GALLUP
3576	3586	10	GALLUP
3586	3596	10	GALLUP
3596	3606	10	GALLUP
3606	3616	10	GALLUP
3616	3626	10	GALLUP
3626	3636	10	GALLUP
3636	3646	10	GALLUP
3646	3656	10	GALLUP
3656	3666	10	GALLUP
3666	3676	10	GALLUP
3676	3686	10	GALLUP
3686	3696	10	GALLUP
3696	3706	10	GALLUP
3706	3716	10	GALLUP
3716	3726	10	GALLUP
3726	3736	10	GALLUP
3736	3746	10	GALLUP
3746	3756	10	GALLUP
3756	3766	10	GALLUP
3766	3776	10	GALLUP
3776	3786	10	GALLUP
3786	3796	10	GALLUP
3796	3806	10	GALLUP
3806	3816	10	GALLUP
3816	3826	10	GALLUP
3826	3836	10	GALLUP
3836	3846	10	GALLUP
3846	3856	10	GALLUP
3856	3866	10	GALLUP
3866	3876	10	GALLUP
3876	3886	10	GALLUP
3886	3896	10	GALLUP
3896	3906	10	GALLUP
3906	3916	10	GALLUP
3916	3926	10	GALLUP
3926	3936	10	GALLUP
3936	3946	10	GALLUP
3946	3956	10	

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NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

Name of Company Humble Oil & Refining Company				Address Box 3082, Durango, Colorado			
Lease Navajo Tribe of Indians G	Well No. 223	Unit Letter L	Section 1	Township 31N	Range 17W		
Date Work Performed 12-12-63	Pool Mary Rocks Gallup			County San Juan			

THIS IS A REPORT OF: (Check appropriate block)

- ☐ Beginning Drilling Operations
 ☐ Casing Test and Cement Job
 ☒ Other (Explain): **Commenced Water**
☐ Plugging
 ☐ Remedial Work **Injection on December 12, 1963**

Detailed account of work done, nature and quantity of materials used, and results obtained.

TD: 1255' PBTD: 1245' Perforated 1208-16' with 2 holes per foot. Completed as a water injection well. Turned Water in on December 12, 1963.



Witnessed by H. L. Farris	Position Dist. Foreman	Company Humble Oil & Refining Company
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FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

ORIGINAL WELL DATA

D F Elev.	TD	PBTD	Producing Interval	Completion Date
Tubing Diameter	Tubing Depth	Oil String Diameter	Oil String Depth	
Perforated Interval(s)				
Open Hole Interval		Producing Formation(s)		

RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover						
After Workover						

OIL CONSERVATION COMMISSION		I hereby certify that the information given above is true and complete to the best of my knowledge.	
Approved by Original Signed Emery C. Arnold		Name B. M. Bradley	
Title Supervisor Dist. # 3		Position Dist. Production. Superintendent	
Date 12-17-1963		Company Humble Oil & Refining Company	