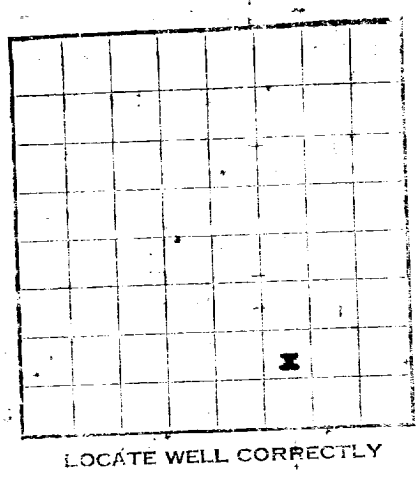
Budget Bureau No. 42-R355.5.
Approval expires 12-31-60.

Form 9-330

U. S. LAND OFFICE .....

SERIAL NUMBER NM-03814-A

LEASE OR PERMIT TO PROSPECT .....
Co. Lse. No. PR-63-120-58



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Humble Oil & Refining Company Address Box 2347 - Hobbs, New Mexico
Box 2180 - Houston 1, Texas

Lessor or Tract Bandana Point Unit Field Wildcat State New Mexico

Well No. 1 Sec. 13 T. 23-S R. 23-E Meridian NMPM County Eddy

Location 750 ft. [N./S.] of S Line and 1900 ft. [E./W.] of E Line of Section 13 Elevation 4026 DF
(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 ..... Title District Superintendent

Date October 23, 1959

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

Commenced drilling April 4, 1959 Finished drilling August 9, 1959, 19..

~~OIL OR~~ GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 9782 to 9796 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 2605 to 2620 No. 3, from 3325 to 3355

No. 2, from 3000 to 3055 No. 4, from ..... to .....

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
16"	75	8R	J-55	119	HOWCO	-	-	-	Conductor
10-3/4	40.5	8R	J-55	2260	Baker	-	-	-	Surface
5-1/2	15.5 & 17	8R	J-55	10133	Baker	-	9782	9796	

MUDDING AND CEMENTING RECORD

Size casing	Where set	No. sacks of cement	Method used	Mud gravity	Amount of mud used
16"	123	150	Pumped		Cement circulated
10-3/4	2278	600	Pumped		Cement circulated
5-1/2	10151	700	Pumped		Cement did not circulate

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 Surface feet to 12262 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 Est. Open Flow Calculated 1800 Mcf/day Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. -

EMPLOYEES

R. L. Cain ....., Driller Joe Carlile ....., Driller

K. A. Cox ....., Driller ....., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	42	42	Boulders
42	160	118	Lime
160	326	166	Lime, dolomite & sand
326	380	54	Dolomite and sand
380	924	544	Dolomite
924	1752	828	Dolomite and sand
1752	1800	48	Dolomite and shale
1800	1909	109	Shale, dolomite and sand
1909	1948	39	Dolomite
1948	2000	52	Sand and dolomite
2000	2052	52	Sand, lime and shale
2052	2260	208	Lime, shale and dolomite
2260	2281	21	Dolomite and sand
2281	2341	60	Dolomite
2341	2525	184	Dolomite and sand
2525	3672	1147	Dolomite
3672	3692	20	Dolomite, lime and shale
3692	3728	36	Dolomite
3728	3737	9	Dolomite, lime and shale
3737	3763	26	Lime, sand and shale
3763	4054	291	Lime and shale
4054	4135	81	Shale
4135	4185	50	Lime, sand and shale
4185	4237	52	Lime and shale
4237	5439	1202	Lime, sand and shale
5439	5479	40	Lime and shale
5479	7200	1721	Lime, sand and shale

(OVER)

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FOLD | MARK

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
7200	7241	41	Lime
7241	7307	66	Lime, sand and shale
7307	7623	316	Shale
7623	7737	114	Lime, sand and shale
7737	7843	106	Shale
7843	8461	618	Lime, sand and shale
8461	8512	51	Lime and shale
8512	9729	1217	Lime, sand and shale
9729	9746	17	Lime, sand and chert
9746	9796	50	Lime, shale and sand
9796	9809	13	Lime, chert and sand
9809	10090	281	Lime, shale and sand
10090	10127	37	Shale and sand
10127	10268	141	Lime, shale and sand
10268	10300	32	Lime, shale, sand and chert
10300	10321	21	Lime and shale
10321	10354	33	Lime, shale and sand
10354	10459	105	Shale and sand
10459	10629	170	Shale
10629	10662	33	Lime, shale and sand
10662	10856	194	Lime, shale and chert
10856	10979	123	Lime and shale
10979	11007	28	Lime and dolomite
11007	11496	489	Dolomite
11496	11613	117	Dolomite and lime
11613	11705	92	Dolomite
11705	11759	54	Dolomite and chert
11759	11805	46	Dolomite
11805	11827	22	Dolomite and lime
11827	11874	47	Dolomite and chert
11874	11922	48	Lime, chert and sand
11922	12011	89	Dolomite
12011	12036	25	Sand
12036	12047	11	Sand and dolomite
12047	12058	11	Sand, chert and dolomite
12058	12103	45	Sand and dolomite
12103	12206	103	Dolomite
12206	12248	42	Dolomite, and chert stringers
12248	12262 TD	14	Dolomite

FORMATION TOPS

1367	2680	San Andres
2680	6845	Bone Spring
6845	7168	Dean
7168	7550	Wuese
7550	7623	Cisco
7623	9023	Canyon
9023	9411	Strawn
9411	9582	Bend
9582	10234	Morrow
10234	10553	Chester
10553	10868	Mancheria
10868	10932	Woodford
10932	11622	Devonian
11622	11995	Montoya
11995	12050	Simpson
12050	12262 TD	Ellenburger

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

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.

DRILL STEM TEST RECORD

Date	Type Test	Formation From	Formation To	Size Choke Top	Size Choke Btm.	TO Min.	Formation Press. Flow	Formation Press. SI	Recovery - Feet Oil	Recovery - Feet Water	Recovery - Feet Mud	Recovery - Feet Other
6-18	OH	9746	9783	1"	5/8"	60	171	1207	-	-	400	-
7-4	OH	10068	10139	1"	5/8"	60	115	1735	-	-		100*
7-22	OH	10950	11045	1"	5/8"	50	535	955	-	8000	40	
7-24	OH	11045	11140	1"	5/8"	60	3696	4578		1000WB		7040**
8-5	OH	12060	12095	1"	5/8"	60	990	1380		2000WB	20	
8-7	OH	12095	12188	1"	5/8"	75	1145	4430		2000WB	65	
8-9	OH	12175	12262	1"	5/8"	75	5025	5025		300		
										2000WB	180	
										8900		

WB-Water Blanket *Gas cut drilling mud ** Black brackish water

Ran Schlumberger wire line open test tool. Test #1 at 10084', sampling press. 0#, 4300# SI Hydro press. 5200#, rec. 0.20 cu. ft. gas, 1300 cc filter water, no formation water. Test #2 at 9785', sample press. 250#, SI press. 4250# Hydro press. 4975#, recovered 26.3 cu. ft. gas, 17900 cc filter water. Attempted test #3, packer failed. Test #4 at 9240', SI press. 4200#, Hydro press. 4700#. press. on surface 2900#, recovered 124.50 cu. ft. gas, 2750 cc filter water. Test #5 at 6565', initial sample press. 200#, final 300#, SI 27 Hydro press. 3250#, surface 200#, recovered 9.65 cu. ft. gas.

Spudded hole 4-4-59. Drilled w/ air to 224'. Drilled w/ water and mud to 2278, set 10-3/4" casing & drilled w/ air to 3351'. Mudded up at this depth and drilled to 12262' TD. Set cement plug from 12262-11600' using 200 sacks slo set cement. Set plug from 11600-10950' using 200 sacks slo set cement. Found top of cmt. plug at 10893'. Set and cemented 10133' of 5-1/2 " csg. at 10151' w/ 700 sacks 12% gel cement. Top cmt. 4910'. Perforated 5-1/2" csg. from 10076-10090 w/ 2 jet shot per ft. Acidized perforations w/ 1500 gals. acid. Perforated 5-1/2" csg. from 9782-9796 w/ 2 jet shots per foot. Frac. perforations 10076-10090' w/10000 gals. water & 10000# sand. Ran CI bridge plug on wire line, set at 10040'. Spotted cmt. plug(7'). Frac perforations 9782-9796' w/10000 gals. water and 10000# sand. Acidized perforations w/500 gals. acid. Set bridge plug on wire line at 6600'. Ran 2 sacks cmt. on top of bridge plug. Perforated 5-1/2" csg. 6562-6569' w/ 2 jet shots per ft. Acidized perforations 6562-6569' w/ 3000 gals. acid. Set cmt. retainer at 6540'. Squeezed perforations 6562-6569' w/ 200 sx reg. neat cmt. Drilled out cmt. to 6592'. Acidized perforations 6562-6569 w/ 1000 gals. acid. Perforated 5-1/2 " csg. from 6562-6569' w/ 2 jet shots per ft. Acidized perforations 6562-6569' w/ 1500 gals. acid. Squeezed perforations 6562-6569 w/100 sx common cmt. Drilled plug at 6600' and shoved down past 10000'. Ran tbg. Swabbed well in. On estimated OPEN FLOW Potential produced at rate of 1800 Mcf/day thru perforations 9782-9796'. Well presently shut in, no gas line connection.

Drilled by: Carl B. King Drilling Company
Material lost in hole: none
Maximum deviation: 5-3/4 degrees at 11,043'
Cores: Cut 3 cores for a total of 71'