

Form 9-380

U.S. LAND OFFICE **San Joaquin**

SERIAL NUMBER **078484**

LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY
Company **The Hot Drilling Co.** Address **1018 Patterson Bldg., Denver, Colo.**
Lessee of Tract **Government-Grant** Field **Wildcat** State **New Mexico**
Well No. **31W R. 13W Meridian N.M.P.M.** County **San Juan**
Location **1095' S. of E. Line and 1075' W. of E. Line of Section 25** Elevation **5829' (KB)**
(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 **J. D. Ryan**
Date **June 21, 1957** Title **Secretary-Treasurer**

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

Commenced drilling **December 3, 1956** Finished drilling **January 21, 1957**

OIL OR GAS SANDS OR ZONES
(Denote gas by G)
Mesa Verde
Dakota

No. 1, from **6460** to **4760** No. 4, from **6460** to **4760**
No. 2, from **6460** to **6810** No. 5, from **6460** to **6810**
No. 3, from **6460** to **6810** No. 6, from **6460** to **6810**

IMPORTANT WATER SANDS

No. 1, from **6460** to **4760** No. 3, from **6460** to **4760**
No. 2, from **6460** to **6810** No. 4, from **6460** to **6810**

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated	Purpose
10-3/4"	32.75	8	Republic	138	None	None	---	Surface
7"	20.0	8	CP	4368	None	None	---	Intermediate
*4-1/2"	11.0	8	CP	274	None	None	4488-6708	Dakota
*4-1/2"							4488-4756	Mesa Verde
*4-1/2"								Liner from 4258' to 6742'

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	152	70	Pump & Plug	1.00	Hole Full
7"	4378	150	Pump & Plug	1.00	Hole Full
*4-1/2"	6742	275	Pump & Plug	Water	Hole Full

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
40,778 Gals.		Fractured	Perforations:		6676-6708	2-3-57
108,000 Gals.		Fractured	Perforations:		4488-4756	2-7-57
24,700 Gals.		Fractured	Perforations:		4648-4756	3-16-57
100,000 Gals.		Fractured	Perforations:		4488-4618	3-17-57

Rotary tools were used from **0** feet to **6750 (TD)** 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. **Calc. 2070 psi. (Dakota)**

Calc. 1952 psi. (Mesa Verde)

_____, Driller **Roy Heatherington**, Driller
_____, Driller **John Heatherington, Tool Pusher**

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	315		Surface Sand and Shale
315	2124		Kirtland Shale
2124	2316		Pictured Cliff
2316	3690		Lewis Shale
4460	4760		Mesa Verde
4760	6676		Mancos Shale
6676	6810		Dakota Sand
6810	6900 TD*		Morrison Shale

* Plug back Total Depth: 6742. Original hole was lost. Plugged back and whip-stacked at 5890'. New hole was drilled to total depth at 6750'. A 4-1/2" liner was run from 4258' to 6742'.

Perforations (Dakota): 6676' - 6688'; 6692' - 6708'; 6711' - 6719'
Perforations (Mesa Verde): 4488' - 4492'; 4496' - 4510'; 4516' - 4536'; 4542' - 4552
4586' - 4588'; 4595' - 4599'; 4610' - 4613'; 4624' - 4629
4636' - 4640'; 4656' - 4670'; 4682' - 4685'; 4700' - 4704
4724' - 4730'; 4750' - 4756'.

Refugee No.	Refugee Name	Refugee Address	Refugee Phone	Refugee Email
4734	4734	4734	4734	4734
4735	4735	4735	4735	4735
4736	4736	4736	4736	4736
4737	4737	4737	4737	4737
4738	4738	4738	4738	4738
4739	4739	4739	4739	4739
4740	4740	4740	4740	4740
4741	4741	4741	4741	4741
4742	4742	4742	4742	4742
4743	4743	4743	4743	4743
4744	4744	4744	4744	4744
4745	4745	4745	4745	4745
4746	4746	4746	4746	4746
4747	4747	4747	4747	4747
4748	4748	4748	4748	4748
4749	4749	4749	4749	4749
4750	4750	4750	4750	4750