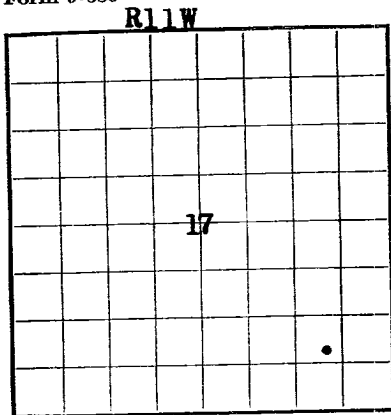


U. S. LAND OFFICE Santa Fe SERIAL NUMBER SF 08032A LEASE OR PERMIT TO PROSPECT



T27N

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

4040 East Louisiana Ave. Denver 22, Colorado

Company The Frontier Refining Com. Address Denver 22, Colorado

Lessor or Tract Schwerdtfeger Field Basin Dakota State New Mexico

Well No. 1D Sec. 17 T. 27N. 11W Meridian N.M.P.M. County San Juan

Location 790 ft. N. of S. Line and 790 ft. W. of E. Line of Section 17 Elevation 6241' (KB)

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. Morrison

Date February 1, 1961 Title Petroleum Engineer

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

Commenced drilling 10-27, 19 60 Finished drilling 11-10, 19 60

OIL OR GAS SANDS OR ZONES

(G) 6552' (Denote gas by G) No. 1, from 6448' (KB) to 6552' (KB) p. b. t. 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. 3, from to No. 2, from to No. 4, from to

CASING RECORD

Table with columns: Size casing, Weight per foot, Threads per inch, Make, Amount, Kind of shoe, Cut and pulled from, Perforated (From-To), Purpose. Rows include Surface Csg., Oil String, and Prod. String.

MUDDING AND CEMENTING RECORD

Table with columns: Size casing, Where set, Number sacks of cement, Method used, Mud gravity, Amount of mud used. Rows show mud and cement used for 5/8" and 1/2" casing.

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set Adapters—Material Size

SHOOTING RECORD

Table with columns: Size, Shell used, Explosive used, Quantity, Date, Depth shot, Depth cleaned out.

TOOLS USED

Rotary tools were used from 0 feet to 6586 (KB) feet, and from feet to feet Cable tools were used from feet to feet, and from feet to feet

DATES

Put to producing 1-30, 19 61

The production for the first 24 hours was barrels of fluid of which % was oil; % emulsion; and % water.

Note: If gas well, cu. ft. per 24 hours 2,448,000 Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. 2,000 Note: 22/64" choke 500 psi back pressure 1.96 bbl. distillate/hour

EMPLOYEES

J. L. Whitehead Driller R. C. Seale Driller Alex Cowan Driller J. W. Baker Driller

FORMATION RECORD

Table with columns: FROM, TO, Description of formation layers including Chacra, Mancos, and others, with depths in feet.

