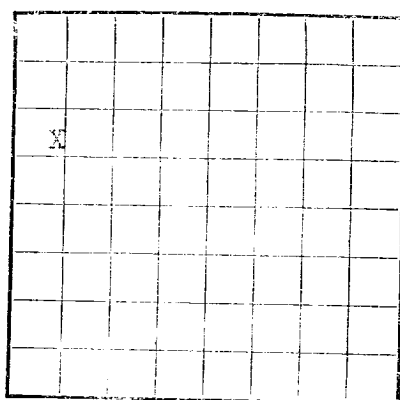


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078106
LEASE OR PERMIT TO PROSPECT



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Sunray DX Oil Company Address 101 University Blvd., Denver, Colo.
Lessor or Tract Gallegos Canyon Unit Field Total Gallup State New Mexico
Well No. 141 Sec. 22 T28N R. 12W Meridian NMPM County San Juan
Location 1980 ft. N. of N. Line and 660 ft. E. of N. Line of Section 22 Elevation 5607'
The information given herewith is true and correct to the best of my knowledge and belief.
(Derrick's 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 _____ D. E. Hall

Date February 3, 1964 Title District Engineer

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

Commenced drilling ----- **August 17** -----, 19**63** ----- Finished drilling ----- **August 28** -----, 19**63** -----

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

(Denote gas by (r))

No. 1, from 5398 to 5408	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

[illegible]

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	231	120	pump & plug		
4-1/2	5525	300	pump & plug		

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 5525 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

-----, 19-----

Put to producing ----- 9-1----- 14-----

Load Oil

DATES

The production for the first 24 hours was 3* barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity $^{\circ}\text{Bé}$ 1.2

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

..... R. Hutzenbiler, Driller
..... Sanford, Driller
..... Wilson, Driller
....., Driller

FORMATION RECORD

* This test is of Jan. 20, 1964. **FORMATION RECORD** The well is still producing load oil,

FROM	TO	TOTAL FEET	FORMATION
100	100		Electric Log Tops
			Picture Cliffs 1400
			Cliffhouse 2965
			Point Lookout 3870
			Mancos 4135
			Upper Gallup 5032
			Lower Gallup 5390
			Sanastee 5477

FORMATION RECORD—Continued

[illegible]

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of refilling, 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 "sidedracked" 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 tamping or bailing.

HISTORY OF OIL OR GAS WELL

Spudded 12-1/4" hole at 6/00 PM 8-17-63. Drilled to 236' and ran 8-5/8" csg. to 231'. Cement with 120 sx of 2% ca.cl. circulated. WOC 18 hours. Tested csg. to 1000 psi for 30 minutes - O.K. Drilled 7-7/8" hole to T.D. of 5525'. Ran Welox Induction Electric & Gamma Ray Franc Fracinder w/ micro seismogram logs. Ran 4-1/2" OD 11-5# csg & set at 5525'. Cemented 1st stage w/ 150 sx class C cement w/ 12-1/2# 1 sx gilsonite & 50 sx class C with 2% ca.cl. Opened Baker TC collar at 1444' & cemented w/ 100 sx class C w/ 12-1/2# 1 sx gilsonite. Closed TC collar & pressured to 2500# - O.K. WOC 24 hours. Ran TBG & hung at 5376'. perforated 5398-5408' w/ 4 jets/ft. Fractured Gallup w/ 40,000 gal. crude & 40,000# sand at 35 BPM & 2500#. Job complete 8-30-63.