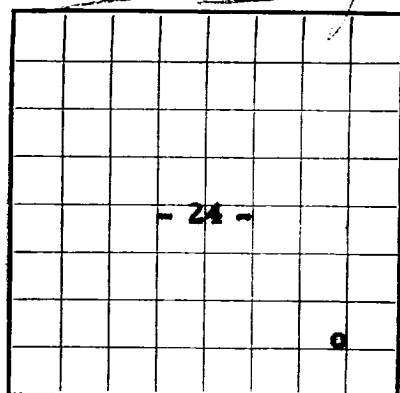


U. S. LAND OFFICE Santa Fe, N. M.SERIAL NUMBER S. F. 081296

LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company San Juan Gas Corporation Address 1716 1st Natl. Bldg., Tulsa, OklahomaLessor or Tract Field Cavilan State New MexicoWell No. 24-D Sec. 24 T. 25N R. 2W Meridian New Mex. Prime County Rio ArribaLocation 870 ft. N. of S. Line and 865 ft. E. of E. Line of Sec. 24 Elevation 7434
(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 Robert C. PearsonDate November 30, 1956Title Vice President

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

Commenced drilling July 25, 19 56 Finished drilling July 31, 19 56

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3492 to 3543 G No. 4, from toNo. 2, from 3562 to 3588 G No. 5, from to

No. 3, from to No. 6, from to

No. 1, from 35 to 103 No. 3, from toNo. 2, from 344 to 523 No. 4, from toNo. 1, from 344 to 523 No. 4, from to

		14		

[illegible]

Set 8-5/8" casing at 78.25' with 50 sacks regular cement. Drilled 7-7/8" hole to 3652'. Ran electric log and micro log to total depth. Set 4-1/2" 16.0 pound casing at 3609' with 75 sacks pozzol, 75 sacks regular. Measured log to 1000 p.s.i., for 45 minutes. Ran temperature survey to 3500' of cement. Perforated 5 holes to the foot from 3503 to 3519' and from 3529 to 3591' - Schlumberger Electric Log measurements. Cement treated with 20,000 pounds 10/20 sand and 580 barrels water; flushed with 100 barrels water. Maximum treating pressure - 1600 p.s.i.; injection rate - 37 barrels per minute. Swabbed well in through casing.

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 "backtracked," or left in the well, give its size and location. If the well has been dynamited, give diameter, 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

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

FORMATION	TOTAL FEET	TO-	FROM-
Sh.	103	2840	2737
ss.	18	2858	2840
sh.	118	2976	2858
ss.	6	2982	2976
sh.	81	3063	2982
ss with thin sh. breaks.	315	3378	3063
sh.	28	3406	3378
coast and shale with thin streaks of ss.	86	3492	3406
gas ss.	51	3543	3492
sh.	19	3562	3543
shaley gas ss.	26	3588	3562
sh.	44	3632	3588
ss.	1	3633	3632
ss.	1	3634	3633
ss.	1	3635	3634
ss.	1	3636	3635
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ss.	1	3641	3640
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ss.	1	3700	3699