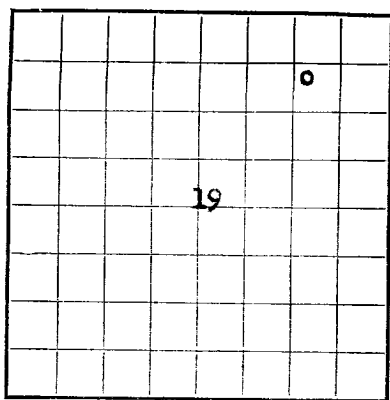


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078511
LEASE OR PERMIT TO PROSPECT

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Southern Union Gas Company Address 1001 Hurt Building
Lessor or Tract Quinn Field Elanco State New Mexico
Well No. 4 Sec. 19 T 31N R. 8W Meridian N.M.P.M. County San Juan
Location 990 ft. XX of N Line and 990 ft. XX of E Line of Sec. 19 Elevation 6491
(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 A. M. Wiederkehr
Date 12-28-54 Title Manager Exploration Dept.

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

Commenced drilling 9-10-, 19 54 Finished drilling 11-9-, 19 54

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3310' to 3450' (G) No. 4, from _____ to _____
No. 2, from 5185' to 5305' (G) No. 5, from _____ to _____
No. 3, from 5602' to 5635' (G) 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

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
13-3/8	48#		H40	244'					Surface
9-5/8	36#		J-55	3445'					Production
7-1/2	20#		J-55	1929'		Top 3306'			Production
2									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	240' DF	200	Halliburton		
9-5/8	3445' GL	500	"		
7	5225' DF	200	"		
2	5666' DF				

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
Sand-oil fraced Cliff House (5225-5345) w/11,480 gallons oil and 7600# sand.						
Shot 5275-5775 w/1980' quarts.						

TOOLS USED

Rotary tools were used from 0 feet to 5775' feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

11-13-, 19 54 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. _____

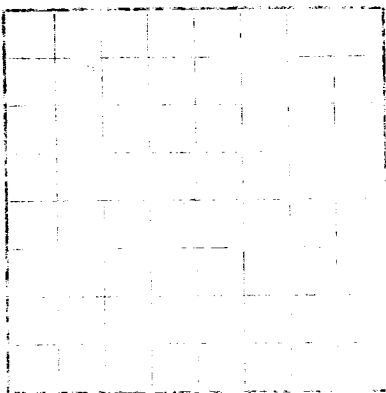
If gas well, cu. ft. per 24 hours 1670 MCF Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. SICP 1016# SITP 975# S.I. 16/days

EMPLOYEES

Denman Oil & Drilling Corp., Driller Bob Morris, Driller
n. i. Driller W. W. Tamm, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
TOPS:			
Pictured Cliffs	3350'		
Lewis	3440'		
Cliff House	5260'		
Menfee	5305'		
Point Lockout	5625'		
FD 5775'			



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

The information given here is a complete and correct record of the well and all work done thereon so far as can be determined from all available sources.

The following information is for the purpose of the well as above stated.

OIL OR GAS SANDS AND SOILS

70.1 from 100.0 to 100.0

70.2 from 100.0 to 100.0

70.3 from 100.0 to 100.0

70.4 from 100.0 to 100.0

70.5 from 100.0 to 100.0

70.6 from 100.0 to 100.0

70.7 from 100.0 to 100.0

70.8 from 100.0 to 100.0

70.9 from 100.0 to 100.0

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70.97 from 100.0 to 100.0

70.98 from 100.0 to 100.0

70.99 from 100.0 to 100.0

70.100 from 100.0 to 100.0

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 abandoned, give date, 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			
Casing Record			
Important Water Sands			
Oil or Gas Sands and Soils			
Shooting Record			
Notes and Remarks			
Formation			
Total Feet			
To			
From			