

A coordinate grid with x and y axes ranging from 0 to 8. Points are plotted at (0, 6), (2, 4), (4, 2), and (6, 0). The point (0, 6) is labeled 'O'. Line segments connect (0, 6) to (2, 4), (2, 4) to (4, 2), and (4, 2) to (6, 0). The number '12' is written near the center of the grid.

U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **SP 078508**
LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Southern Union Gas Company Address 1001 Burt Bldg., Dallas, Texas
 Lessor or Tract Nordhaus Field Blanco State New Mexico
 Well No. 4 Sec. 12 T. 31N R. 9W Meridian N.M.P.M. County San Juan
 Location 990 ft. N. of N Line and 990 ft. E. of E Line of Section 12 Elevation 6470
 (Metric from 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. *Edm*

Date April 15, 1958 Signed L. S. Fucini Title Exploration Engineer

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

Commenced drilling 11-27- 19 57 Finished drilling 12-27- 19 57

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

(Denote gas by G)

No. 1, from <u>5276</u> to <u>5410 (G)</u>	No. 4, from _____ to _____
No. 2, from <u>5625</u> to <u>5780 (G)</u>	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

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
10-3/4	32.75#	8RD	H-40	239					Surface Production
7-5/8	26.4#	8RD	J-55	3483					
5-1/2	17#	8RD	J-55	2600					
5-1/2	15.5#	8RD	J-55	5741					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	226' KB	200	Halliburton		
7-5/8	3480' KB	200	Halliburton		
5-1/2	8323' RKB	400	Halliburton		
2"	5750' KB				

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

TOOLS USED

Rotary tools were used from -0- feet to 3488 w/mud feet, and from 3488 feet to 8650 w/gas feet

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

DATES

1-27-1958 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 9501 MCFPD Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 1085#/10 days

EMPLOYEES

<u>Gardner Bros. Drilling Co.</u>	, Driller	<u>T. F. Manion</u>	, Driller
<u>R. L. Lynch</u>	, Driller	<u>C. E. Moore</u>	, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
-0-	1400	1400	Sand & shale
1400	1507	107	Sand, shale & coal
1507	2947	1440	Sand & shale
2947	2993	46	Shale, sand & coal
2993	3276	283	Sand & shale
3276	3284	8	Shale
3284	5375	2091	Sand & shale
5375	5717	342	Sand, coal & shale
5717	8278	2561	Sand & shale
8278	8290	12	Hard sand
8290	8314	22	Sand
8314	8650 TD	336	Sand & shale
	PBTD 5850'		
			TOPS: Pictured Cliffs 3325 Cliff House 5275 Point Lookout 5610 Greenhorn 7965

TOPS: Pictured Cliffs 3325
Cliff House 5275
Point Lookout 5610
Greenhorn 7965

