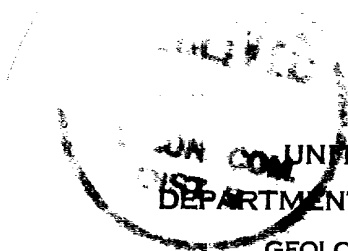


A blank 10x10 grid for graphing, with a thick L-shaped axis on the left and bottom.

LOCATE WELL CORRECTLY



U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 072392
LEASE OR PERMIT TO PROSPECT 14-00-COL-950

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 997 - Farmington, New Mexico
Lessor or Tract San Juan 27-5 Unit Field Blanco State New Mexico
Well No. 19 Sec. 20 T. 27N R. 5W Meridian N.M.P.M. County Rio Arriba
Location 990 ft. N. of S. Line and 1750 ft. E. of W. Line of Section 20 Elevation 6609

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. Original Signed EWELL N. WALSH
Signed _____

Date March 28, 1957 Title Petroleum Engineer

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

Commenced drilling 1-29 19 57 Finished drilling 2-13 19 57

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3359 to 3450 (G) No. 4, from 5525 to 5673 (G)
No. 2, from 4993 to 5126 (G) No. 5, from _____ to _____
No. 3, from 5126 to 5525 (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--	
10-3/4"	32.75	8 Rd.	S.W.	162'	Howco				surface
7-5/8"	26.4	8 Rd.	J-55	3522'	Baker				Prod. csg.
5-1/2"	19.5	8 Rd.	J-55	2218'	Baker				Prod. liner
2"	4.7	8 Rd.	J-55	5624'					Prod. tub.

MUDDING AND CEMENTING RECORD

	Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
MARK	10-3/4"	173'	150	circulated		
	(1-576")	3533'	250	single stage		
	1-1/2"	3471-5609'	300	single stage		

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 3534 feet, and from 3534 feet to 5692 feet

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

DATES

-----254-----	19	51	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 4,255,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 1048

EMPLOYEES

....., Driller

_____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2735	2735	Tan to gry cr-grn ss interbedded w/gry sh.
2735	2877	142	Ojo Alamo ss. White cr-grn s.
2877	3100	223	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
3100	3359	259	Fruitland form. Gry carb sh, scattered coals coals and gry, tight, fine-grn ss.
3359	3450	91	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
3450	4993	1543	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
4993	5126	133	Cliff House ss. Gry, fine-grn, dense sil ss.
5126	5525	399	Menefee form. Gry, fine-grn s, carb sh & coals.
5525	5673	148	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5673	5692	19	Mancoes formation. Gry carb sh.

FORMATION RECORD—Continued[illegible]

HISTORY OF OIL OR GAS WELL

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 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 pumping or bailing.

2-17-57. T.D. 5689'. C.O.T.D. 5650'. Perf. 5492-5516; 5534-55; 5606-26.
Frac Point Lookout with 65,000 gal. water and 60,000# sand with 10,000 gal.
Inj. rate 75 bbls./min. Max. Fr. and Breakdown Fr. = 2300#. Avg. tr. pr. 1050#.

2-18-57. B.P. @ 5250'. Perf. 5000-72; 5080-90; 5110-28. Frac Cliff House with 60,000 gal. water and 60,000 gal. sand. Flush with 10,000 gal. Inj. rate 67.5 bbls./min. Max. pr. and Breakdown pr. = 1800#. Avg. tr. pr. 1650#.

06-00000 **07-00000** **08-00000** **09-00000**

DU BROS; C. S. OF FRUIT & VEGETABLES

FOC PL OR OK GVE ALBT

SECRET

DISCUSSION OF THE ALLEGOR

10-10-15

Figure 1. The effect of the concentration of the *Agaricus bisporus* spores on the growth of *Agaricus bisporus* and *Agaricus bisporus* spores on the growth of *Agaricus bisporus*.