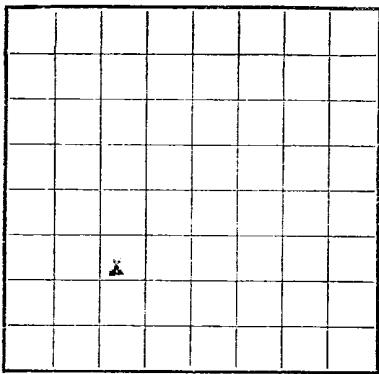


U. S. LAND OFFICE Santa FeSERIAL NUMBER 079298-D

LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
Lessor or Tract Lincoln Unit Field Blanco N.V. & Wildcat State New Mexico
Well No. 137 (ND) Sec. 24 T. 27N R. 7W Meridian N.M.P.M. County Bio Arriba
Location 1500 ft. N of S Line and 1300 ft. E of W Line of Section 24 Elevation 6760
(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. Original Signed R. G. MILLER
Signed _____

Date March 2, 1960 Title Petroleum Engineer

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

Commenced drilling 11-24, 19 59 Finished drilling 12-15, 19 59

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4832 to 4935 (G) No. 4, from 7448 to 7615 (G)
No. 2, from 4935 to 5471 (G) No. 5, from 7615 to 7755 (G)
No. 3, from 5471 to 5650 (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	44	8 Rd.	J-55	369	Hunter				Surface
9 5/8	40 & 36	8 Rd.	J-55	5400	Baker				Intermediate
7	23	8 Rd.	J-55	410	Baker				Prod. Csg.
5	15	8 Rd.	J-55	445	Baker				Prod. Liner
2	4.7	8 Rd.	J-55	7661	Baker				Prod. Tbg.
1 1/4	2.4	10 Rd.	J-55	5583					Prod. Tbg.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8	323	260	Circulated		
9 5/8	3434	150	Single Stage		
7	7420	1045	Single Stage		
5	7370-7315	80	Single Stage		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size _____ Baker Model "D" Packer at 6727'

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from Gas Drilled feet to _____ feet

Cable tools were used from _____ feet to 3437 feet, and from 3437 feet to 7680 feet

DATES

_____, 19 60 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 445,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 7,000,000

N-1051; D-2361 A.O.F. = M - 873; D- 7263 MCF/D

EMPLOYEES

_____, Driller _____, Driller

_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
			Tan to gry cr-grn ss interbedded w/gry sh.
			Ojo Alamo ss. White cr-grn s.
			Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
Not logged		3215	Fruitland form. Gry carb sh, scattered coals, coals & gry, tight, fine-grn ss.
3215	3300	85	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
3300	4832	1532	Levis formation. Gry to white dense sh v/silty to shaly ss breaks.
4832	4935	103	Cliff House ss. Gry, fine-grn, dense sil ss.
4935	5471	536	Manefee form. Gry, fin-grn s, carb sh & coal.
5471	5650	179	Point Lookout form. Gry, very fine sil ss v/frequent sh breaks.
5650	6627	977	Manacos formation. Gry carb sh.
6627	7030	403	Gallup form. Lt gry to brn calc carb micac glauco very fine gry ss w/irreg. interbed sh.
7030	7090	60	Tocito form. Fr to md grn sub angular to sub rd clr quartz sd glauco lt gr to tan.
7090	7392	302	Sanastee form. Drk gry calc very fine to fine gry ss w/calc veins w/irreg inter drk gry s.
7392	7448	56	Greenhorn form. Highly calc gry sh w/thin last.
7448	7615	167	Graneros form. Dk gry shals, fossil & carb v/prite incl.
7615	7755	140	Dakota form. Lt to dk gry foss carb al calc silty ss w/prite incl thin sh bands clay & shale breaks.

NOT CE OFF 23 MAY 1971

[illegible]

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 "struck" 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.

HISTORY OF OIL OR GAS WELL

[illegible]