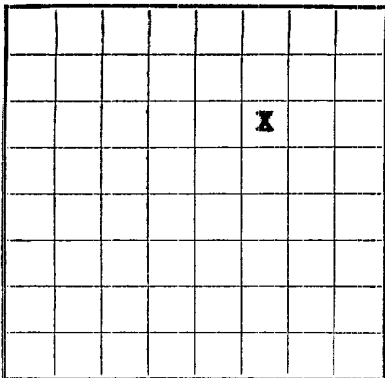




LOCATE WELL CORRECTLY

New Mexico
U. S. LAND OFFICE
SERIAL NUMBER 03560
LEASE OR PERMIT TO PROSPECT
14-08-001-459UNITED 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 San Juan 28-7 Unit Field Blanco & Wildcat State New Mexico
Well No. 98(MD) Sec. 29 T. 27N R. 7W Meridian N.M.P.M. County Rio Arriba
Location 1800 ft. XX of N Line and 1800 ft. XX of E Line of Section 29 Elevation 6570'
(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 Original Signed C. D. OOKDate March 26, 1959 Title Petroleum Engineer

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

Commenced drilling 12-27-, 19 58 Finished drilling 2-7-, 19 59

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2872 to 2923 (G) No. 4, from 5133 to 5315 (G)
No. 2, from 4545 to 4596 (G) No. 5, from 6233 to 6693 (G)
No. 3, from 4596 to 5133 (G) No. 6, from 7253 to 7504 (G)

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	8 Rd.	H-40	166'	Howco				Surface
9 5/8"	40	8 Rd.	J-55	3060'	Baker				Intermediate
7"	23	8 Rd.	H-80	1060'					
7"	23	8 Rd.	J-55	1056'	Baker				Prod. Liner
2"	4.7	8 Rd.	J-55	7405'					Prod. tbg.
2"	4.7	8 Rd.	J-55	5352'					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"	176'	250	Circulated		
9 5/8"	3071'	945	Two stages		
7"	3018-7534'	970	Single Stage		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size Guiberson Packer @ 5790'

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		See Well History				

TOOLS USED

Gas Drilled

Rotary tools were used from 0 feet to 3072 feet, and from 3072 feet to 7540 feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

March 1, 19 59 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 M-1,621,000 Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. M-984 A.O.F.—M-1938 MCF/D
D-1824 D-2270

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1985	1985	Tan to gry cr-grn ss interbedded w/gry sh.
1985	2208	223	Ojo Alamo ss. White cr-grn s.
2208	2681	473	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
2681	2872	191	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
2872	2953	81	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
2953	4545	1592	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
4545	4596	51	Cliff House ss. Gry, fine-grn, dense sil ss.
4596	5133	537	Manefee form. Gry, fine-grn s, carb sh & coal.
5133	5315	182	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5315	6233	918	Mancos formation. Gry carb sh.
6233	6693	460	Gallup form. Lt gry to brn calc carb micac glauco very fine gry ss w/irreg interbed sh.
6693	6770	77	Tocito form. Gr to md grn sub angular to sub rd clr quartz sd glauco lt gr to tan.
6770	7090	320	Sanastee form. Dk gry calc very fine to fine gry ss w/calc veins w/irreg. inter drk gry s.
7090	7148	58	Greenhorn form. Highly calc gry sh w/thin lmst.
7148	7253	105	Graneros form. Dk gry shale, fossil & carb w/prite incl.
7253	7504	251	Dakota form. Lt go dk gry foss carb sl calc silty ss w/prite incl. thin sh bands clay & shale breaks.

FORMATION RECORD—COMPLETED

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
7504	7540	36	Morrison form. Interbedded gray ls and red waxy sh & fr to cr gra sd.

HISTORY OF OIL OR GAS WELL

16-43001-2 U. S. GOVERNMENT PRINTING OFFICE

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.

2-11-59 Perf. Dakota 7334-7340; 7344-7350; 7356-7362; 7366-7376; 7422-7430 w/4 DJ/ft. Fraced w/55,000 gallons water & 55,000# sand. Flush w/ 18,900 gallons water. I.R. 55.7 B.P.M. Max. pr. 3300#, BDP 2800#, T.P. 2700-2800-2900#. Two sets of 30 balls each for 3 stages.

2-12-59 Set B.P. @ 7328'. Perf. Dakota 7268-7278; 7308-7318 w/2 DJ/ft. Fraced w/35,000 gallons water & 35,000# sand. Flushed w/17,800 gallons water. I.R. 46.2 B.P.M. Max. pr. 3700#, BDP 2300#, T.R. 2800-3500#. Dropped 1 set of 20 balls for 2 stages.

2-12-59 Set B.P. @ 5450'. Perf. Point Rock 5204-5220; 5286-5296; 5304-5314 w/2 DJ/ft. Fraced w/45,000 gallons water & 45,000# sand. Flushed w/14,700 gallons water. I.R. 80.3 B.P.M. Max. pr. 2500#, BDP 1100#, T.P. 1700-2000#. Dropped 1 set of 30 balls for 2 stages.

2-17-59 Set Baker Model "K" retainer @ 7235', on 2 1/2" RUE tubing. Spotted salt plug across upper Dakota perms. Refrased w/20,500 gallons water (Dowall water frac) & 18,000# sand. Flush 5900 gallons water. Pumped into formation @ 6500 psi. Max. pr. 6500 psi. BDP 4600-5000-6500 psi. Dropped 3 sets of 30 balls.

TO : OF OUT OF OWN UNIT



STANDARD FORM NO. 10
MAY 1962 EDITION
GSA GEN. REG. NO. 27

THIS FORM IS PREPARED BY THE
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