



U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **079363**
LEASE OR PERMIT TO PROSPECT
14-08-001-1051

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
 Lessor or Tract San Juan 28-6 Unit Field Blanco & So. Blanco P.C. State New Mexico
 Well No. 82(PM) Sec. 13 T. 27N R. 6W Meridian N.M.P.M. County Rio Arriba
 Location 1650 ft. XXX of N Line and 1800 ft. XXX of E Line of Section 13 Elevation 6428
(Deriv. Box relative to sec. 36)

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.

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Signed _____ Original Signed By: _____
Date September 23, 1958 D. W. Meehan
Title Petroleum Engineer

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

Commenced drilling 7-3-, 1958 Finished drilling 8-3-, 1958

OIL OR GAS SANDS OR ZONES

(Denote gas by $\mathcal{G}$)

No. 1, from 3470 to 3270 (8) No. 4, from 5302 to 5278 (8)

No. 2, from 4793 to 4915 (8) No. 5, from to

No. 3, from 4915 to 5302 (8) 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	P.E.	S.W.	152'	Howed				Surface
7 5/8"	26.40	8 R4.	J-55	3390'	Howed				Prod. thg.
5 1/2"	15.50	8 R4.	J-55	5000'	Howed				Prod. liner
2"	4.7	8 R4.	J-55	5261'					Prod. thg.
1 1/4"	2.4	8 R4.	Grade "A"	3210'					Stimul

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	174'	150	Circulated		
7 5/8"	3349'	200	Single Stage		
5 1/2"	3313-5558'	300	Single Stage		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size Baker "EJ" Pat. # 3413'

SHOOTING RECORD

[illegible]

TOOLS USED

TOOLS USED

Rotary tools were used from 175 feet to 3350 feet, and from 3350 feet to 5559 feet **Gas Drilled**

Cable tools were used from _____ feet to 175 feet, and from _____ feet to _____ feet

217 DATES

-----8-15-----, 19-58 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 **P.C. 1,473,000** Gallons gasoline per 1,000 cu. ft. of gas -----

Rock pressure, lbs. per sq. in. P.C. 1494

EMPLOYEES M.V. 2777

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

FORMATION RECORD

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2437	2437	Tan to gry cr-grn ss interbedded w/gry sh.
2437	2650	213	Ojo Alamo ss. White cr-grn s.
2650	2947	297	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
2947	3170	223	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
3170	3270	100	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
3270	4793	1523	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
4793	4915	122	Cliff House ss. Gry, fine-grn, dense sil ss.
4915	5302	387	Manefee form. Gry, fine-grn s, carb sh & coal.
5302	5478	176	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5478	5559	81	Mancos 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.

Aug. 6, 1958 Perf. P.L. w/2 DJ/rt. 5300-5330; 5340-5352; 5362-5386; 5406-5430; 5438-5460. Frac. w/59,800 gal. water & 59,600# sand. Finished w/12,000 gal. water. I.N. 45 BPM. Max. pr. 3300#, BD pr. 1750#, avg. tr. pr. 1000-1250-1400-2500-3000#. 5 sets of 20 balls.

Set Baker Bridge Plug at 5100'.
 Ferr. C.H. w/2 D3/rt. 4792-4802; 4804-4824; 4838-4856; 4892-4914; 4940-4960;
 4976-4998. Frac. w/60,400 gal. water & 60,000# sand. Flushed w/10,200 gal.
 water. I.R. 58.2 BPM. Max. pr. 2100#, 20 gr. 1950#, avg. tr. pr. 1500-1600
 1700-1800-2100#. 5 sets of 25 balls.

Set Baker Bridge Plug at 3400'.
Berf. P.G. w/4 DJ/ft. 3176-3190; 3204-3232; 3246-3258. Frac. w/30,000 gal.
water & 40,000# sand. Flushed 10,300 gal. water. I.R. 72 BPM. Max. pr.
2200#, 55 pr. 1300#, avg. tr. pr. 1000-1000-1400-2150#. 3 sets of 40 Balls.

DATE: 18 FEB 1963

Другим образом, мы можем рассмотреть функцию $f(x)$ как функцию от x и y . Тогда $f(x)$ — это функция от x и y , а $f(y)$ — это функция от x и y . Таким образом, мы можем рассмотреть функцию $f(x)$ как функцию от x и y , а $f(y)$ — это функция от x и y .

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