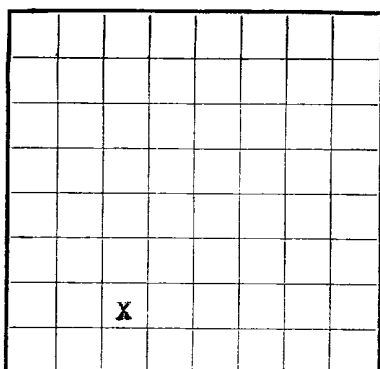




LOCATE WELL CORRECTLY

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078640
LEASE OR PERMIT TO PROSPECT _____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 San Juan 28-7 Unit Field Blanco & So. State New Mexico
Well No. 93 (PM) Sec. 9 T. 27N R. 7W Meridian N.M.P.M. County Rio Arriba
Location 840 ft. N. of S. Line and 1550 ft. E. of W. Line of Section 9 Elevation 6647'
(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 D. C. JohnsonDate February 13, 1958 Title Petroleum Engineer

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

Commenced drilling 12-3, 1957 Finished drilling 12-13, 1957

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3112 to 3227 (G) No. 4, from 5393 to 5526 (G)
No. 2, from 4813 to 4899 (G) No. 5, from _____ to _____
No. 3, from 4899 to 5393 (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	P. B.	S. W.	161'	Howco				Surface
7 5/8	26.4	8 Rd.	J-55	3312	Baker				Prod. Csg.
5 1/2	15.5	8 Rd.	J-55	2435'	Baker				Prod. Liner
2"	4.7	8 Rd.	J-55	3610'					Prod. Tbg.
1 1/4	2.4	8 Rd.	Grade "A"	3168'					Siphon

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4	173'	125	Circulated		
7 5/8	3324'	250	Single Stage		
5 1/2	3281-5716	300	Single Stage		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size Baker "EGJ" Packer at 3330'

SHOOTING RECORD

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

TOOLS USED

Rotary tools were used from 0 feet to 3325 feet, and from 3325 Gas Drilled feet to 5720 feet

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

DATES

_____ 12-21, 1957 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. 7,535,000 Gallons gasoline per 1,000 cu. ft. of gas _____
M.V. 1,596,000Rock pressure, lbs. per sq. in. 1056 (SIPT) A.O.F. = P.C. 10,572 MCF/D
EMPLOYEES M.V. 1,680

_____, Driller _____, Driller

_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2242	2242	Tan to gry cr-grn ss interbedded w/gry sh.
2242	2421	179	Ojo Alamo ss. White cr-grn s.
2421	2880	459	Kirtland form. Gry sh interbedded w/tight gry f: fine-grn ss.
2880	3112	232	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
3112	3227	115	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
3227	4813	1586	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
4813	4899	86	Cliff House ss. Gry, fine-grn, dense silt ss.
4899	5393	494	Menefee form. Gry, fine-grn s, carb sh & coal.
5393	5526	133	Point Lookout form. Gry, very fine silt ss w/frequent sh breaks.
5526	5720	194	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.

12-16-57 T. D. 5720'. C.O.T.R. 5670'. Water frac. Point Lookout perf. int. 5400-5428; 5466-5498; 5542-5566; 5606-5620; 5626-5646 w/2 shots/ft. w/60,000 gal. water, 60,000# sand. RDP 1300 psi, max. pr. 2700 psi, avg. tr. pr. 1100, 1200, 1300, 2000 psi. I. R. 65.4 BPM. Flush w/9000 gal. water. Dropped 9 sets of 16 balls for 4 stages. Set temp. BP @ 3580'. Water frac. P. C. perf. int. 3130-3180, w/2 shots/ft. w/40,000 gal. water, 40,000# sand. RDP 2700 PSI. Max. pr. 3000 psi, avg. tr. pr. 1200, 2300 psi. I. R. 56 BPM. Flush 6300 gal. water. Dropped one set of 30 balls and one set of 20 balls for 2 stages.

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MINISTRY OF DEFENSE
DEPARTMENT OF THE ARMY
UNITED STATES

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