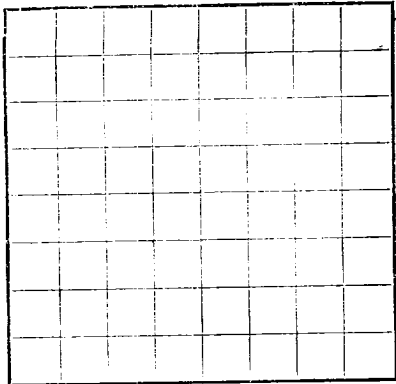




U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **079491**
LEASE OR PERMIT TO PROSPECT

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 990, Farmington, New Mexico
Lessor or Tract San Juan 27-5 Unit Field Blanco Mesa Verde State New Mexico
Well No. 88 Sec. 12 T. 27N R. 5W Meridian N.M.P.M. County Rio Arriba
Location 1190 ft. XX of N Line and 800 ft. XX of E Line of Section 12 Elevation 6853
(Derriek 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 H. E. MCANALLY

Date November 6, 1962 Title Petroleum Engineer

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

Commenced drilling 9-27, 1962 Finished drilling 10-11 b, 1962

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 5390 to 5504 (G) No. 4, from _____ to _____
No. 2, from 5504 to 5884 (G) No. 5, from _____ to _____
No. 3, from 5884 (G) to 6019 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	H-40	121	HOMCO				Surface
7 5/8"	26.4	8 rd	J-55	3963	Baker				Intermediate
5 1/2"	15.5	8 rd	J-55	2177	Baker				Liner
1 1/4"	2.7	8 rd	J-55	6010	Baker				Prod. tubing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	134	95	circulated		
7 5/8"	3973	162	single		
5 1/2"	3878-6055	226	single		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
Perf 5984-96 (1 SPF); 5960-66 (2 SPF); 5886-98 (1 SPF); 5516-20; 5500-04 (3 SPF); 5468-74 (2 SPF); Frac w/73,000 gallons water, 72,000# sand. Flush w/10,000 gallons water. IR 56.3 BPM. MP 2900#, BDP 1600#, tr pr 900-2900#. 5 drops of 12 balls.						

TOOLS USED

Rotary tools were used from 0 feet to 6055 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

10-24, 1962 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 4,594,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 1,121-esp. A.O.F. 5228 MCF/D

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	3156	3156	Tan to gry cr-grn ss interbedded w/gry sh.
3156	3266	110	Ojo Alamo ss. White cr-grn s.
3266	3482	216	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
3482	3717	235	Fruitland form. Gry carb sh, scattered coals, coal and gry, tight, fine-grn ss.
3717	3792	75	Pictured Cliffs forms. Gry, fine-grn, tight, varicolored soft ss.
3792	5390	1598	Lewis form. Gry, fine-grn, dense sil ss.
5390	5504	114	Cliff House ss. Gry, fine-grn, dense sil ss.
5504	5884	380	Menefee form. Gry, fine-grn s, carb sh & coal.
5884	6019	135	Point Lookout form. Gry, very fine sil ss with frequent sh breaks.
6019	6055	36	Mancos form. Gry carb sh.