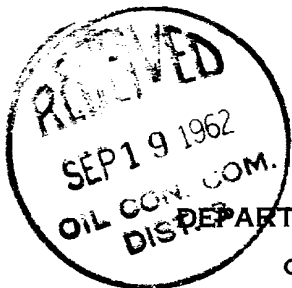
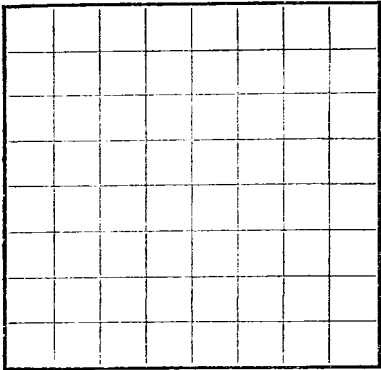


U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **078499-A**
LEASE OR PERMIT TO PROSPECT



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 **Hardie "E"** Field **Blanco Mesa Verde** State **New Mexico**
Well No. **2** Sec. **9** T. **29N** R. **8W** Meridian **N.M.P.M.** County **San Juan**
Location **790** ft. **N.** of **S.** Line and **1650** ft. **E.** of **W.** Line of **Sec. 9** Elevation **6237**
(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 H.E. MCANALLY
Signed _____

Date **September 17, 1962** Title **Petroleum Engineer**
The summary on this page is for the condition of the well at above date.
Commenced drilling **7-17-**, 19 **62** Finished drilling **7-27-**, 19 **62**

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

No. 1, from **4315** to **4415 (G)** No. 4, from _____ to _____
No. 2, from **4415** to **4908 (G)** No. 5, from _____ to _____
No. 3, from **4908** to **5084 (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—	
9 5/8"	32.3	8 rd	J-55	154	Horse				Surface
7"	20	8 rd	J-55	983	Baker				Trill
4 1/2"	10.5	8 rd	J-55	2284	Baker				Liner
1 1/4"	2.30	8 rd	J-55	9839					Prod tubing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8"	168	105	circulated		
7"	2905	195	single		
4 1/2"	2846-5130	225	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 4380-86; 4404-10; 4392-98; 4908-14; 4924-30; 4938-44; 5000-06; 5028-34 (2 SFF). Frac w/80900 gallons water, 80,000# sand. I.R. 37.4 BPM. Max pr 3380#, BHP 1200#, tr p 1850-2100-2600-2800-3200#. 7 drops of 12 balls.						

TOOLS USED

Rotary tools were used from **0** feet to **5130** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

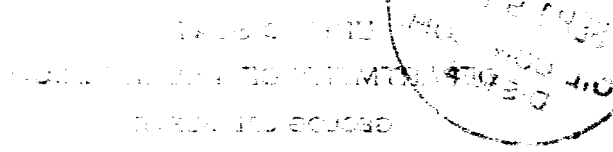
8-30, 19 **62** Put to producing _____, 19_____
The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____
If gas well, cu. ft. per 24 hours **6,475,000** Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. **1034 avg.** **A.O.F. 8732**

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1700	1700	Tan to gry cr-grn ss interbedded w/gry sh.
1700	1810	110	Ojo Alamo ss. White cr-grn s.
1810	2443	633	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
2443	2678	235	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
2678	2795	117	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
2795	4315	1520	Lewis form. Gry, fine-grn dense sil ss.
4315	4415	100	Cliff House ss. Gry, fine-grn, dense sil ss.
4415	4908	494	Manefee form. Gry, fine-grn s, carb sh & coal.
4908	5084	176	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5084	5130	46	Mancos form. Gry carb sh.



1997-1998 1998-1999 1999-2000 2000-2001 2001-2002

1. The first step in the process of the investigation is the identification of the problem. This is done by the investigator who is responsible for the study. The investigator must first identify the problem that is being investigated. This is done by the investigator who is responsible for the study. The investigator must first identify the problem that is being investigated.

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.

HISTORY OF OIL OR GAS WELL

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