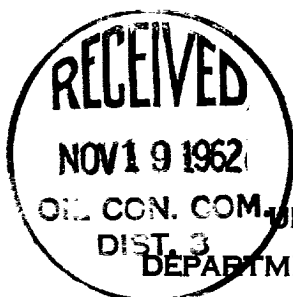


LOCATE WELL CORRECTLY

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 079052
LEASE OR PERMIT TO PROSPECT _____UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYU. S. GEOLOGICAL SURVEY
DISTRICT OFFICE, ALBUQUERQUE, NEW MEXICO

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 990, Farmington, New Mexico
Lessor or Tract Rincon Unit Field Basin Dakota State New Mexico
Well No. 157 Sec. 18 T. 27N R. 6W Meridian N.M.P.M. County Rio Arriba
Location 860 ft. N. of S. Line and 1650 ft. E. of W. Line of Section 18 Elevation 6672
(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 November 16, 1962Title Petroleum Engineer

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

Commenced drilling 8-28, 19 62 Finished drilling 9-17, 19 62

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 7418 to 7545 (G) No. 4, from _____ to _____
No. 2, from 7545 to 7723 (G) No. 5, from _____ to _____
No. 3, from _____ to _____ 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—	
<u>9 5/8"</u>	<u>22.3</u>	<u>8-14</u>	<u>3-55</u>	<u>7140</u>	<u>Baker</u>				
<u>4 1/2"</u>	<u>11.6, 10.5</u>	<u>8-14</u>	<u>3-55</u>	<u>7140</u>	<u>Baker</u>				<u>Prod. casing</u>
<u>2"</u>	<u>4.6</u>	<u>8-14</u>	<u>3-55</u>	<u>7505</u>	<u>Baker</u>				<u>tubing</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>9 5/8"</u>	<u>324</u>	<u>210</u>	<u>circulated</u>		
<u>4 1/2"</u>	<u>7770</u>	<u>645</u>	<u>3 stage</u>		

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
<u>Perf 7456-60; 7496-7500; 7502-86; 7598-7602; (4 SFF); Pres w/62,000 gallons water, 60,000# sand. Flush w/5000 gallons water. Max pr 3800#, SFF 1800#, tr pr 3100-3300#. 3 drops of 16 balls.</u>						

TOOLS USED

Rotary tools were used from 0 feet to 7770 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

10-9, 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 2,950,000 Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. 2457-2461 A.O.F. 3308 MCF/D

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>2208</u>	<u>2208</u>	<u>Tan to gry cr-grn ss interbedded w/gry sh.</u>
<u>2208</u>	<u>2610</u>	<u>402</u>	<u>Ojo Alamo ss. White cr-grn s.</u>
<u>2610</u>	<u>3049</u>	<u>439</u>	<u>Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.</u>
<u>3049</u>	<u>3211</u>	<u>162</u>	<u>Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.</u>
<u>3211</u>	<u>3250</u>	<u>39</u>	<u>Pictured Cliffs form. Gry, fine-grn tight, x varicolored soft ss.</u>
<u>3250</u>	<u>4874</u>	<u>1624</u>	<u>Lewis form. Gry, fine-grn, dense sil ss.</u>
<u>4874</u>	<u>4965</u>	<u>91</u>	<u>Cliff House ss. Gry, fine-grn, dense sil ss.</u>
<u>4965</u>	<u>5435</u>	<u>470</u>	<u>Mancos form. Gry, fine-grn s, carb sh & coal.</u>
<u>5435</u>	<u>5589</u>	<u>154</u>	<u>Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.</u>
<u>5589</u>	<u>5600</u>	<u>11</u>	<u>Mancos form. Gry carb sh.</u>
<u>5600</u>	<u>7357</u>	<u>1757</u>	<u>Gallup form. Lt gry to brn calc carb micac glauco very fine gry ss w/irreg interbed sh.</u>
<u>7357</u>	<u>7418</u>	<u>61</u>	<u>Greenhorn form. Highly calc gry sh w/thin linst.</u>
<u>7418</u>	<u>7545</u>	<u>127</u>	<u>Graneros form. Bk gry shale, fossil & carb w/white incl.</u>
<u>7545</u>	<u>7723</u>	<u>178</u>	<u>Bakota form. Lt to dk gry foss carb sl calc sl silty ss w/white incl thin sh bands clay & shale breaks.</u>
<u>7723</u>	<u>7770</u>	<u>47</u>	<u>Morrison form. Interbed grn brn and red waxy sh & fr to cr-grn sand.</u>
END	LOG	LOG TOTAL FEET	LOG REMARKS