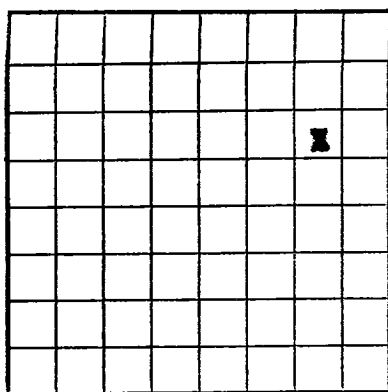


U. S. LAND OFFICE Santa FeSERIAL NUMBER 080997

LEASE OR PERMIT TO PROSPECT _____



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 577, Farmington, New Mexico
Lessor or Tract Garman Field Blanco-La Plata State New Mexico
Well No. 4 Sec. 33 T. 30N R. 2E Meridian N. M. P. M. County San Juan
Location 1650 ft. (S.) of N Line and 1000 ft. (W.) of E Line of Section 33 Elevation 5321.41
(Derive 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 D. E. LockertDate January 5, 1953Title Petroleum Engineer

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

Commenced drilling June 10, 1952 Finished drilling September 20, 1952

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3060 to 3128 (G) No. 4, from _____ to _____
No. 2, from 4708 to 5376 (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>25.4</u>	<u>8</u>	<u>Amoco</u>	<u>160</u>	<u>Amoco</u>				<u>Surface</u>
<u>7</u>	<u>16.7</u>	<u>8</u>	<u>Amoco</u>	<u>160</u>	<u>Amoco</u>				<u>Prod. log.</u>
<u>2 1/2</u>	<u>6.9</u>	<u>8</u>	<u>Amoco</u>	<u>160</u>	<u>Amoco</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>177</u>	<u>115</u>	<u>Circulated</u>		
<u>7</u>	<u>4677</u>	<u>300</u>	<u>Single</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>Quart</u>	<u>Reg.</u>	<u>S.E.C.</u>	<u>1635</u>	<u>9-20-52</u>	<u>4757-5457</u>	<u>5457</u>

TOOLS USED

Rotary tools were used from 0 feet to 4600 feet, and from 4600 feet to 5457 feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Sept. 22, 1952 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 8,696,000 Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. 1,000

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>596</u>	<u>596</u>	<u>Thin cr-gr ss w/thin sh breaks.</u>
<u>596</u>	<u>1306</u>	<u>750</u>	<u>Variing sh w/thin ss breaks.</u>
<u>1306</u>	<u>1997</u>	<u>691</u>	<u>Thin to gry cr-gr ss interbedded v/gry sh.</u>
<u>1997</u>	<u>2113</u>	<u>116</u>	<u>Ojo Alamo ss. Vh cr-gr sd. T/Ojo Alamo 1997.</u>
<u>2113</u>	<u>2760</u>	<u>647</u>	<u>Kirtland formation. Gry sh interbedded v/tight</u>
<u>2760</u>	<u>3060</u>	<u>300</u>	<u>gry f-gr ss. T/Kirtland 2113.</u>
<u>3060</u>	<u>3128</u>	<u>68</u>	<u>Fruitland formation. Gry carb sh scattered coals</u>
<u>3128</u>	<u>4708</u>	<u>1980</u>	<u>& gry, tight f-gr ss. T/Fruitland 2760.</u>
<u>4708</u>	<u>4896</u>	<u>188</u>	<u>Pictured Cliffs formation. Gry, f-gr, tight vari</u>
<u>4896</u>	<u>5254</u>	<u>358</u>	<u>soft ss. T/Pictured Cliffs 3060.</u>
<u>5254</u>	<u>5376</u>	<u>122</u>	<u>Lewis formation. Gry to sh dense shale w/silty</u>
<u>5376</u>	<u>5457 TD</u>	<u>81</u>	<u>to shly ss breaks. T/Lewis 3128.</u>
			<u>Cliff House sandstone. Gry, f-gr dense silt ss.</u>
			<u>T/Cliff House 4896.</u>
			<u>Manuel formation. Gry f-gr sd, carb sh & coal.</u>
			<u>T/Manuel 4896.</u>
			<u>Point Lookout formation. Gry v f silt ss w/freq</u>
			<u>sh breaks. T/Point Lookout 5254.</u>
			<u>Mancos formation. Gry carb sh. T/Mancos 5376.</u>

(OVER)

1. *Pharmaceutical industry*—United States—History. I. Title. II. Series.

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FORMATION RECORD—Continued

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