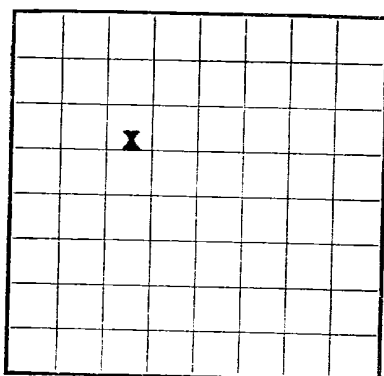
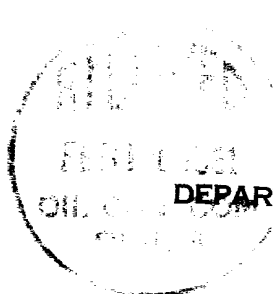




LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYU. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078022
LEASE OR PERMIT TO PROSPECT

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 990, Farmington, New Mexico
Lessor or Tract Huerfano Unit Field Angel Peak Gallup & Angel Peak Dakota State New Mexico
Well No. 101 (GD) Sec. 19 T. 27-N R. 10-W Meridian N.M.P.M. County San Juan
Location 1700 ft. XXX of N Line and 1620 ft. XXX of W Line of Section 19 Elevation 5903
(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 Engineer By: D.H. OlsonDate February 9, 1961Title Petroleum Engineer

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

Commenced drilling 10-3-, 19 60 Finished drilling 10-15-, 19 60

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5144 to 5643 (0 & 0) No. 4, from to
No. 2, from 6046 to 6160 (0) No. 5, from to
No. 3, from 6160 to 6281 (0) 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>32.3</u>	<u>8 Rd.</u>	<u>J-40</u>	<u>279</u>	<u>Hazen</u>	<u> </u>	<u> </u>	<u> </u>	<u>surface casing</u>
<u>7"</u>	<u>25</u>	<u>8 Rd.</u>	<u>J-80</u>	<u>625</u>	<u>Baker</u>	<u> </u>	<u> </u>	<u> </u>	<u>prod casing</u>
<u>2"</u>	<u>4.7</u>	<u>8 Rd.</u>	<u>J-55</u>	<u>6159</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>prod tubing</u>
<u>2"</u>	<u>4.7</u>	<u>8 Rd.</u>	<u>J-55</u>	<u>5496</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>prod 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>290'</u>	<u>172</u>	<u>circulated</u>	<u> </u>	<u> </u>
<u>7"</u>	<u>6337'</u>	<u>300</u>	<u>single stage</u>	<u> </u>	<u> </u>

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size Baker Model "D" packer @ 5536'

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

TOOLS USED

Rotary tools were used from 0 feet to 6340 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

Shut in 12-16-, 19 60 Put to producing , 19

The production for the first 24 hours was 28.8 barrels of fluid of which 100 % was oil; % emulsion; % water; and % sediment. & 1000 MCF Gravity, °Bé.

If gas well, cu. ft. per 24 hours D-6,753,000 Gallons gasoline per 1,000 cu. ft. of gas Rock pressure, lbs. per sq. in. G-1130
D-1927 EMPLOYEES A.O.F. 9765 MCF/D

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>609</u>	<u>609</u>	<u>Tan to gry cr-grn ss interbedded w/gry sh.</u>
<u>609</u>	<u>700</u>	<u>91</u>	<u>Ojo Alamo ss. White cr-grn s.</u>
<u>700</u>	<u>1303</u>	<u>603</u>	<u>Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.</u>
<u>1303</u>	<u>1621</u>	<u>318</u>	<u>Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.</u>
<u>1621</u>	<u>1707</u>	<u>86</u>	<u>Pictured Cliffs forms. Gry, fine-grn, tight, varicolored soft ss.</u>
<u>1707</u>	<u>3592</u>	<u>1885</u>	<u>Lewis form. Gry, fine-grn, dense sil ss.</u>
<u>3592</u>	<u>3650</u>	<u>58</u>	<u>Cliff House ss. Gry, fine-grn, dense sil ss.</u>
<u>3650</u>	<u>4053</u>	<u>403</u>	<u>Manatee form. Gry, fine-grn s, carb sh & coal.</u>
<u>4053</u>	<u>4294</u>	<u>241</u>	<u>Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.</u>
<u>4294</u>	<u>5144</u>	<u>850</u>	<u>Mancos form. Gry carb sh.</u>
<u>5144</u>	<u>5643</u>	<u>499</u>	<u>Gallup form. Lt gry to brn calc carb micac glauco very fine gry ss w/irreg.interbed sh.</u>
<u>5643</u>	<u>5990</u>	<u>347</u>	<u>Sanostee form. Drk gry calc very fine to fine gry ss w/calc veins w/irreg inter drk gry s.</u>
<u>5990</u>	<u>6046</u>	<u>56</u>	<u>Greenhorn form. Highly calc gry sh w/thin lmst.</u>
<u>6046</u>	<u>6160</u>	<u>114</u>	<u>Graneros form. Dk gry shale, fossil & carb w/prite incl.</u>
<u>6160</u>	<u>6281</u>	<u>121</u>	<u>Dakota form. Lt to dk gry foss carb sl calc sl silty ss w/prite incl thin sh bands clay & shale breaks.</u>
<u>6281</u>	<u>6340</u>	<u>59</u>	<u>Morrison form. Interbed grn brn & red waxy sh & fr to cr grn sand.</u>

FORMATION RECORD—Continued

1970-1971

60/8-88; 6100-14;
6167-82; 2 PJ/14.

FORMATION RECORD—continued

[illegible]