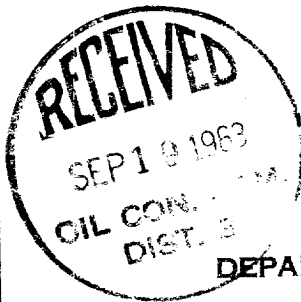
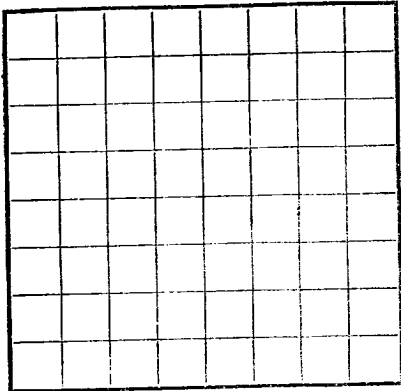


U. S. LAND OFFICE Sanita Fe
SERIAL NUMBER 078977
LEASE OR PERMIT TO PROSPECT _____



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 990, Farmington, New Mexico
Lessor or Tract Canyon Largo Unit Field Basin Dakota State New Mexico
Well No. 116 Sec. 12 T. 24N R. 6W Meridian N.M.P.M. County Rio Arriba
Location 1490 ft. N. of 8 Line and 990 ft. W. of 2 Line of Sec. 12 Elevation 6456
(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 _____ Title Petroleum Engineer
Date September 16, 1963

The summary on this page is for the condition of the well at above date.
Commenced drilling 8-9, 19 63 Finished drilling 8-23, 19 63

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

No. 1, from 6376 to 6510 (G) No. 4, from _____ to _____
No. 2, from 6510 to 6697 (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>4.7</u>	<u>8</u>	<u>3-77</u>	<u>10539</u>	<u>Oil OK</u>	<u>CV2 MEFF</u>	<u>10-43004-5</u>	<u>0'</u>	<u>Drilling</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>303</u>	<u>200</u>	<u>Circulated</u>		
<u>4 1/2</u>	<u>6697</u>	<u>565</u>	<u>2 Stage</u>		
<u>2 3/8</u>	<u>6553</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
Perf. <u>6414-22</u> , <u>6510-16 w/4 SPT</u> , <u>6544-56 w/2 SPT</u> , spotted <u>250 gal. 7.5% MHA</u> on bottom & frac w/ <u>60,000 gal. water</u> , <u>60,000# 40/60 sand</u> , flushed w/ <u>5,460 gallons water</u> . I.R. <u>34</u> BPH, Max. pr. <u>4000#</u> , MFP <u>2200#</u> , tr. pr. <u>3125</u> , <u>3400</u> , <u>3650#</u> , dropped 2 sets of 24 balls each. MFP <u>2900#</u> , 5 Min. SIP <u>2600#</u> . Rotary tools were used from <u>0</u> feet to <u>6697</u> feet, and from _____ feet to _____ feet Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet						

DATES

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 3,098,000 Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. 2419 lbs. 2504 psi Calc. A.O.F. 3479 MCF/D

_____, Driller
Pico Drilling Company, Driller
_____, Driller

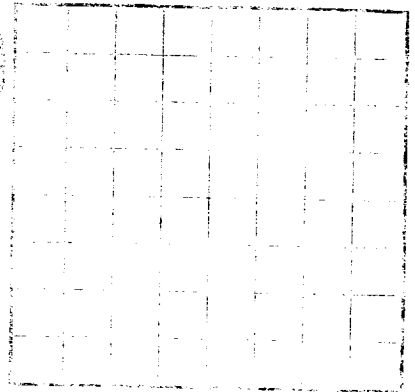
FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>1710</u>	<u>1710</u>	<u>Ojo Alamo</u>
<u>1710</u>	<u>1793</u>	<u>83</u>	<u>Kirtland</u>
<u>1793</u>	<u>2023</u>	<u>230</u>	<u>Fruitland</u>
<u>2023</u>	<u>2125</u>	<u>102</u>	<u>Pictured Cliffs</u>
<u>2125</u>	<u>2240</u>	<u>115</u>	<u>Lewis</u>
<u>2240</u>	<u>3655</u>	<u>1415</u>	<u>Cliff House</u>
<u>3655</u>	<u>3730</u>	<u>75</u>	<u>Mesaero</u>
<u>3730</u>	<u>4316</u>	<u>586</u>	<u>Point Lookout</u>
<u>4316</u>	<u>4482</u>	<u>166</u>	<u>Mancos</u>
<u>4482</u>	<u>5400</u>	<u>918</u>	<u>Gallup</u>
<u>5400</u>	<u>6320</u>	<u>920</u>	<u>Greenhorn</u>
<u>6320</u>	<u>6376</u>	<u>56</u>	<u>Graneros</u>
<u>6376</u>	<u>6510</u>	<u>134</u>	<u>Dakota</u>
<u>6510</u>	<u>6697</u>	<u>187</u>	

The following is a list of the names of the persons who have been appointed to the various positions in the Department of the Interior, under the authority of the President, and who have been sworn in as such:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL



Completed drilling _____ 10-23 _____ finished drilling _____ 6-23 _____
The summary on this page is for the condition of the well at above date.
Date _____ September 15, 1953 _____
Title _____
OR OWNER SIGNED E.L. GIBBY
The information given in this is a complete and correct record of the well and all work done thereon.
Local _____ of _____ line and _____ ft. _____
Well located _____ is _____ Meridian _____
_____ Canyon large unit _____ Field Basin Texas _____ State _____
Company _____ MI Hess Natural Gas Company _____ Address _____
_____ _____

OIL OR GAS SANDS OR ZONES

No. 1, from	to	page 10	No. 4, from	to	page 10
No. 2, from	to	page 10	No. 5, from	to	page 10
No. 3, from	to	page 10	No. 6, from	to	page 10

(Parents and Pupils)

IMPORTANT WATER SANDS

No. 2, from	to	from	No. 8, from	to	from
No. 2, from	to	from	No. 8, from	to	from

CASING RECORD

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 attached or left in the well, give the date and location. If material 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.

HISTORICAL OIL OR GAS WELL

16-48094-2 U. S. GOVERNMENT PRINTING OFFICE

[illegible]