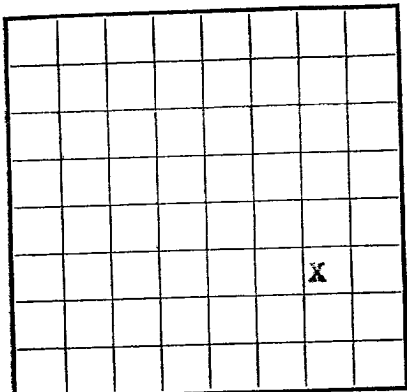




UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
Lessor or Tract Dolack Field Ballard P.C. Ext. State New Mexico
Well No. 4-E Sec. 1 T. 23N R. 6W Meridian N.M.P.M. County Rio Arriba
Location 1600 ft. N. of S Line and 1090 ft. W. of E Line of Section 1 Elevation 6769'
(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 ORIGINAL SIGNED B.H. MEANS

Title Petroleum Engineer

Date October 1, 1959

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

Commenced drilling 5-31, 1959 Finished drilling 6-3, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2145 to 2194 (G) No. 4, from _____ to _____
No. 2, from _____ to _____ 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>8-5/8</u>	<u>24</u>	<u>8</u>	<u>A</u>	<u>117'</u>	<u>None</u>	<u>Surface</u>			<u>Surface</u>
<u>5-1/2</u>	<u>19.5</u>	<u>8</u>	<u>A</u>	<u>223'</u>	<u>None</u>	<u>Surface</u>			<u>Prod. Log.</u>
<u>1-1/4</u>	<u>2.4</u>	<u>10 Rd.</u>	<u>Grade "A"</u>	<u>2184</u>					<u>Siphon</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8</u>	<u>127</u>	<u>106</u>	<u>Circulated</u>		
<u>5-1/2</u>	<u>2246</u>	<u>70</u>	<u>Single 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>See Well History</u>			

TOOLS USED

Rotary tools were used from 0 feet to 2247 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

9-6, 1959 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 204,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 658 A.O.F. = 225 MCF/D

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>1621</u>	<u>1621</u>	<u>Tan to gry cr-grn ss interbedded w/gry sh.</u>
<u>1621</u>	<u>1757</u>	<u>136</u>	<u>Ojo Alamo ss. White cr-grn s.</u>
<u>1757</u>	<u>2024</u>	<u>267</u>	<u>Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.</u>
<u>2024</u>	<u>2145</u>	<u>121</u>	<u>Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.</u>
<u>2145</u>	<u>2194</u>	<u>49</u>	<u>Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.</u>
<u>2194</u>	<u>2247</u>	<u>53</u>	<u>Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.</u>

U.S. LAND OFFICE
SERIAL NUMBER
ISSUED OR PAID TO PROPERTY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

A blank sheet of graph paper with a grid pattern. The grid consists of 10 columns and 8 rows of squares. The lines are thin and black, set against a white background. There is a slight dark border around the edges of the paper.

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

Completed drilling _____ ft or _____ ft finished drilling _____ ft

Total depth _____ ft

This _____ was made by _____

Signed _____ Captain of BUREAU OF MEANS

The information given herewith is as complete and correct record of the well and all work done thereon
as can be determined from all available records.
of _____ of _____ and _____ Sec. _____ T. _____ R. _____ S. _____
_____ of _____ Co. _____ of _____ State _____ County _____

Address _____
Field _____ State _____

Company _____
Pessor or Tract A _____

OUT OF GAS SANDS OR ZONES

(b) (5) ACP, (b) (5) ACP

9-3-59 C.O.F.D. 2206. Water from 2206 to 2176-40. Int. 2156-40; 2176-84 (2 pt./ft.) w/35,196 gallons water, 35,000# sand. Flushed w/2268 gallons water. I.R. 39.8 BHM. Max. pr. 3450#, ROP 2050#, tr. pr. 1300-1450. 1650-2050#. Pumped 3 sets of 10 wells for 4 stages. Spotted 250 gal. RW before perf. Used 17 gallons. 2206 in frac. water. Used 5 gal. 0-2 in flush.

20.8 from to 20.6 from to 20.5 from to 20.4 from to

Station	Size of foot	Friends put in	Amount	Kind of stone	Cost and billings thereon	Proceeds	Remarks
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

FORMATION RECORD			
FROM	TO	TOTAL FEET	FORMATION
1000	1001	1	...
1001	1002	1	...
1002	1003	1	...
1003	1004	1	...
1004	1005	1	...
1005	1006	1	...
1006	1007	1	...
1007	1008	1	...
1008	1009	1	...
1009	1010	1	...
1010	1011	1	...
1011	1012	1	...
1012	1013	1	...
1013	1014	1	...
1014	1015	1	...
1015	1016	1	...
1016	1017	1	...
1017	1018	1	...
1018	1019	1	...
1019	1020	1	...
1020	1021	1	...
1021	1022	1	...
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1032	1033	1	...
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1038	1039	1	...
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1116	1117	1	...
1117	1118	1	...
1118	1119	1	...
1119	1120	1	...
1120	1121	1	...
1121	1122	1	...
1122	1123	1	...
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1124	1125	1	...
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FORMATION RECORD—Continued