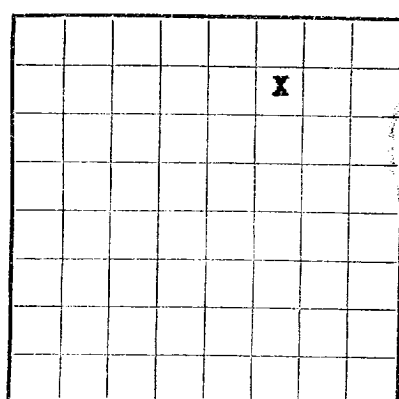


U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **079049- A**
LEASE OR PERMIT TO PROSPECT



0710196

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 San Juan 28-6 Unit Blanco Mesa Verde
Field So. Blanco P.C. Est. State New Mexico
Well No. 97 (PM) Sec. 35 T. 28 N. R. 6 W Meridian N.M.P.M. County Rio Arriba
Location 810 ft. Box of N Line and 1700 ft. Ex of E Line of Sec. 35 Elevation 6626

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 _____

Date **September 30, 1960**

Title **Petroleum Engineer**

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

Commenced drilling 6-23-60, 1960 Finished drilling 7-3-60, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3380 to 3474 (G) No. 4, from 5566 to 5725 (G).
No. 2, from 5132 to 5217 (G) No. 5, from to
No. 3, from 5217 to 5566 (G) No. 6, from to

IMPORTANT WATER SANDS

No. 1, from _____ to _____

No. 2, from _____ to _____

No. 3, 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—	
10 3/4"	32.75	7.3.	S.W.	181	Harco				prod tubing
7 5/8"	26	8 Rd.	J-55	3577	Baker				prod tubing
5 1/2"	15.5	8 Rd.	J-55	2242	Baker				prod tubing
2"	4.7	8 Rd.	J-55	5654					prod tubing
1 1/4"	2.4	10 Rd.	J-55	3413					prod tubing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	173	170	circulated		
7 5/8"	3587	150	single stage		
5 1/2"	3524-5766	320	single stage		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material----- Size ~~Gulberson "Shorty" packer at 360k~~

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		See Well History				

TOOLS USED

Rotary tools were used from 0 feet to 3588 feet, and from 3588 ~~Gas Hole to~~ 5770 feet

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

-----7-10-----, 1960 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 P-1, 941,000
M-1, 723,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. P-1116

M-1062 EMPLOYEES A.O.F. P-5626 M-8799 MCF/D

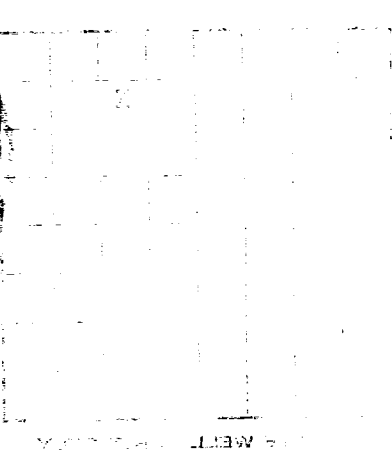
_____, Driller _____, Driller

_____, Driller _____ Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2598	2598	Tan to gry cr-grn ss interbedded w/gry sh.
2598	2793	195	Ojo Alamo ss. White cr-grn s.
2793	3113	320	Kirtland form Gry sh interbedded w/tight gry fine-grn ss.
3113	3380	267	Fruitland form Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
3380	3474	94	Pictured Cliffs forms Gry, fine-grn, tight, varicolored soft ss.
3474	5152	1678	Lewis form. Gry, fine-grn, dense sil ss.
5152	5217	65	Cliff House ss. Gry, fine-grn, dense sil ss.
5217	5566	349	Manatee form. Gry, fine-grn s, carb sh & coal.
5566	5725	159	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
5725	5770	45	Mancos formation. Gry carb sh.

LOVER



1. THEY WERE NOT TO DO

1. General
 2. Specific
 3. Particular
 4. Detail
 5. Example
 6. Illustration
 7. Comparison
 8. Contrast
 9. Analogy
 10. Metaphor
 11. Simile
 12. Personification
 13. Hyperbole
 14. Oxymoron
 15. Irony
 16. Sarcasm
 17. Allegory
 18. Symbolism
 19. Imagery
 20. Sound
 21. Color
 22. Texture
 23. Smell
 24. Taste
 25. Touch
 26. Temperature
 27. Pressure
 28. Weight
 29. Volume
 30. Intensity
 31. Duration
 32. Frequency
 33. Quantity
 34. Quality
 35. Character
 36. Personality
 37. Behavior
 38. Attitude
 39. Opinion
 40. Belief
 41. Value
 42. Principle
 43. Law
 44. Rule
 45. Regulation
 46. Code
 47. System
 48. Method
 49. Technique
 50. Process
 51. Procedure
 52. Protocol
 53. Policy
 54. Plan
 55. Program
 56. Project
 57. Task
 58. Job
 59. Work
 60. Activity
 61. Operation
 62. Function
 63. Role
 64. Position
 65. Office
 66. Post
 67. Station
 68. Place
 69. Location
 70. Site
 71. Spot
 72. Point
 73. Place
 74. Area
 75. Region
 76. Zone
 77. District
 78. County
 79. State
 80. Nation
 81. World
 82. Universe
 83. Space
 84. Time
 85. Duration
 86. Period
 87. Interval
 88. Span
 89. Range
 90. Scope
 91. Extent
 92. Depth
 93. Breadth
 94. Height
 95. Width
 96. Length
 97. Volume
 98. Capacity
 99. Quantity
 100. Amount
 101. Number
 102. Count
 103. Measure
 104. Unit
 105. Scale
 106. System
 107. Method
 108. Technique
 109. Process
 110. Procedure
 111. Protocol
 112. Policy
 113. Plan
 114. Program
 115. Project
 116. Task
 117. Job
 118. Work
 119. Activity
 120. Operation
 121. Function
 122. Role
 123. Position
 124. Office
 125. Post
 126. Station
 127. Place
 128. Location
 129. Site
 130. Spot
 131. Point
 132. Place
 133. Area
 134. Region
 135. Zone
 136. District
 137. County
 138. State
 139. Nation
 140. World
 141. Universe
 142. Space
 143. Time
 144. Duration
 145. Period
 146. Interval
 147. Span
 148. Range
 149. Scope
 150. Extent
 151. Depth
 152. Breadth
 153. Height
 154. Width
 155. Length
 156. Volume
 157. Capacity
 158. Quantity
 159. Amount
 160. Number
 161. Count
 162. Measure
 163. Unit
 164. Scale
 165. System
 166. Method
 167. Technique
 168. Process
 169. Procedure
 170. Protocol
 171. Policy
 172. Plan
 173. Program
 174. Project
 175. Task
 176. Job
 177. Work
 178. Activity
 179. Operation
 180. Function
 181. Role
 182. Position
 183. Office
 184. Post
 185. Station
 186. Place
 187. Location
 188. Site
 189. Spot
 190. Point
 191. Place
 192. Area
 193. Region
 194. Zone
 195. District
 196. County
 197. State
 198. Nation
 199. World
 200. Universe

[illegible]

1-2-60 W.D. 5766 C.O.I.D. 5723. Part Point Lookout w/2 DJR @ 5570-66; 5598-5610;
 5628-38; 5650-60; 5686-5702. Treated w/15,000 gal water, 55,000 # 20-40 sand.
 Flush w/10,985 gal water. Y.R. 76.6 B.P.M. Mex. pr. 1900; B.D. 1900, WAB. tr.
 1600. Dipped 4 sets of 20 balls. Set B.R. @ 5300, part Cliff House w/2 DJR
 @ 5150-56; 5174-55; 5194-5206. Treated w/40,000 gal water, 35,000 # 40-60 sand.
 Flush with 13,000 gal water, Y.R. 68 B.P.M. Mex. pr. 2000; B.D. 3000, WAB. tr. pr.
 1800 #. Dipped 2 sets of 10 balls and 1 set of 15. Spotted 200 gal MVA on belts
 to B.D. 5200 (B) 5200 (B)
 7-7-60 Set B.R. @ 3610, part Planted cliffs w/2 DJR @ 3382-90; 3394-3404;
 3410-18 treated w/30,700 gal water, 35,000 # 10-20 sand. Flush w/6062 gal
 water. Y.R. 57.1 B.P.M. Mex. pr. 1950; B.D. 3000, tr. pr. 1000-1400-1500-1850.
 Dipped one set of 16, one set of 10, one set of 5.

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

[illegible]