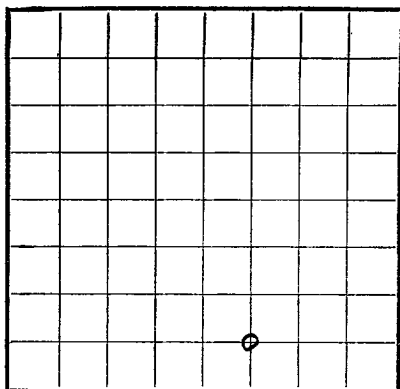


U. S. LAND OFFICE Fortage, Colo.
SERIAL NUMBER 14-20-604-119
LEASE OR PERMIT TO PROSPECT _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OR
MAR 17 1968
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

LOG OF OIL OR GAS WELL.

LOCATE WELL CORRECTLY

Company Pubco Petroleum Corp. Address 106 West Chuska, Aztec, N.M.
Lessor or Tract Mountain Ute Field Verde-Gallup State New Mexico
Well No. 19-15 Sec. 19 T. 31N.R. 14E Meridian NMPM County San Juan
Location 660 ft. N of 6 Line and 1930 ft. E of 6 Line of Section 19 Elevation 5533
(Derive from relative to bench)

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 W. C. Jacob
Date March 14, 1953 Title Geologist

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

Commenced drilling January 17, 1958 Finished drilling February 11, 1958

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3146 to 3161 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. 2, from _____ to _____

No. 3, from _____ to _____

No. 4, from _____ to _____

CASING RECORD

Size casting	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
3-5/8 24	11	8	GPI	9258	None				Surface
5-1/2 18	11	8	GPI	1218	None				Surface
2		8		1698					Surface
HISTORY OF CUT OF CAST METAL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	195	100 sacks reg	Circulated		
5 1/2	3247	See Below			
2	3177	None			

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
50#	perfrs 3145-3161	(3 jets and 3 bullets 1 ft)	w/	692	BO	
20,000#	sand.	BU 2000# TP	1000-2000#	IR	35.6 bpm	

TOOLS USED

Rotary tools were used from Surface feet to 3247 feet, and from _____ feet to _____ feet
Cable tools were used from See below feet to _____ feet, and from _____ feet to _____ feet

DATES

March 14, 1958 Put to producing March 13, 1958
The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ %
emulsion; _____ % water; and _____ % sediment. See below 100 Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

G. Hollowell	Driller	A. Y. Old	Driller
C. Flemmons	Driller		Driller

FORMATION RECORD

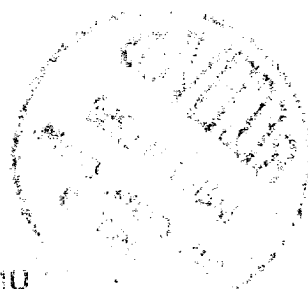
FROM—	TO—	TOTAL FEET	FORMATION
Surface	2102	2102	Mesaverde
2102	2465	363	Mancos
2465	3057	592	"A" Zone)
3057	3247	190	"B" Zone) Mancos

5 1/2" casing: 1st stage: Cmt through casing shoe with 35 sxs reg
cement, 35 cu. ft. stratacrete 6 1/2 gal &
1/4" Floceal per sack.

2nd stage: Cmt through Baker 2 stage cementing collar
set at 2140' and Baker metal petal basket
@ 2200' with 30 sxs reg, 30 cu. ft.
stratacrete and 6" gel.

*** In attempting to drill out cement in hole for open hole completion, string of cable tools stuck in 5 1/2" pipe at about 33 ft. above casing shoe. Attempt to recover fish with both cable and rotary tools failed. Well completed above fish at 3146-61.

3.3 IP 537 BOPB based on swab rate of 260 BG/11 hours - frac oil.
1140 BOPB on pump - pump capacity.



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

14-00000

4802 11 32 33020

[illegible][illegible]

...and the fact that the

[illegible]

1. **RESEARCH DESIGN** 1

1.1. **Study Design** 1

1.2. **Study Population** 1

1.3. **Study Variables** 1

1.4. **Study Hypotheses** 1

1.5. **Study Limitations** 1

1.6. **Study Strengths** 1

1.7. **Study Conclusions** 1

1.8. **Study Implications** 1

1.9. **Study Acknowledgments** 1

1.10. **Study References** 1

1.11. **Study Appendix** 1

1.12. **Study Glossary** 1

1.13. **Study Index** 1

1.14. **Study Bibliography** 1

1.15. **Study Table of Contents** 1

1.16. **Study List of Figures** 1

1.17. **Study List of Tables** 1

1.18. **Study List of Equations** 1

1.19. **Study List of Symbols** 1

1.20. **Study List of Abbreviations** 1

1.21. **Study List of Acronyms** 1

1.22. **Study List of Initials** 1

1.23. **Study List of Surnames** 1

1.24. **Study List of First Names** 1

1.25. **Study List of Middle Names** 1

1.26. **Study List of Nicknames** 1

1.27. **Study List of Titles** 1

1.28. **Study List of Degrees** 1

1.29. **Study List of Professions** 1

1.30. **Study List of Occupations** 1

1.31. **Study List of Industries** 1

1.32. **Study List of Sectors** 1

1.33. **Study List of Markets** 1

1.34. **Study List of Products** 1

1.35. **Study List of Services** 1

1.36. **Study List of Goods** 1

1.37. **Study List of Resources** 1

1.38. **Study List of Inputs** 1

1.39. **Study List of Outputs** 1

1.40. **Study List of Factors** 1

1.41. **Study List of Elements** 1

1.42. **Study List of Components** 1

1.43. **Study List of Parts** 1

1.44. **Study List of Pieces** 1

1.45. **Study List of Items** 1

1.46. **Study List of Objects** 1

1.47. **Study List of Things** 1

1.48. **Study List of Matters** 1

1.49. **Study List of Subjects** 1

1.50. **Study List of Topics** 1

1.51. **Study List of Issues** 1

1.52. **Study List of Problems** 1

1.53. **Study List of Challenges** 1

1.54. **Study List of Opportunities** 1

1.55. **Study List of Threats** 1

1.56. **Study List of Risks** 1

1.57. **Study List of Rewards** 1

1.58. **Study List of Benefits** 1

1.59. **Study List of Costs** 1

1.60. **Study List of Expenses** 1

1.61. **Study List of Revenues** 1

1.62. **Study List of Profits** 1

1.63. **Study List of Losses** 1

1.64. **Study List of Gains** 1

1.65. **Study List of Setbacks** 1

1.66. **Study List of Successes** 1

1.67. **Study List of Failures** 1

1.68. **Study List of Achievements** 1

1.69. **Study List of Milestones** 1

1.70. **Study List of Landmarks** 1

1.71. **Study List of Events** 1

1.72. **Study List of Incidents** 1

1.73. **Study List of Accidents** 1

1.74. **Study List of Disasters** 1

1.75. **Study List of Crises** 1

1.76. **Study List of Emergencies** 1

1.77. **Study List of Situations** 1

1.78. **Study List of Circumstances** 1

1.79. **Study List of Conditions** 1

1.80. **Study List of States** 1

1.81. **Study List of Modes** 1

1.82. **Study List of Methods** 1

1.83. **Study List of Techniques** 1

1.84. **Study List of Procedures** 1

1.85. **Study List of Processes** 1

1.86. **Study List of Systems** 1

1.87. **Study List of Structures** 1

1.88. **Study List of Frameworks** 1

1.89. **Study List of Models** 1

1.90. **Study List of Theories** 1

1.91. **Study List of Concepts** 1

1.92. **Study List of Ideas** 1

1.93. **Study List of Thoughts** 1

1.94. **Study List of Feelings** 1

1.95. **Study List of Emotions** 1

1.96. **Study List of Attitudes** 1

1.97. **Study List of Beliefs** 1

1.98. **Study List of Values** 1

1.99. **Study List of Principles** 1

1.100. **Study List of Norms** 1

1.101. **Study List of Standards** 1

1.102. **Study List of Guidelines** 1

1.103. **Study List of Rules** 1

1.104. **Study List of Regulations** 1

1.105. **Study List of Laws** 1

1.106. **Study List of Policies** 1

1.107. **Study List of Strategies** 1

1.108. **Study List of Tactics** 1

1.109. **Study List of Approaches** 1

1.110. **Study List of Perspectives** 1

1.111. **Study List of Views** 1

1.112. **Study List of Opinions** 1

1.113. **Study List of Judgments** 1

1.114. **Study List of Conclusions** 1

1.115. **Study List of Recommendations** 1

1.116. **Study List of Suggestions** 1

1.117. **Study List of Proposals** 1

1.118. **Study List of Plans** 1

1.119. **Study List of Schemes** 1

1.120. **Study List of Designs** 1

1.121. **Study List of Patterns** 1

1.122. **Study List of Trends** 1

1.123. **Study List of Movements** 1

1.124. **Study List of Changes** 1

1.125. **Study List of Transformations** 1

1.126. **Study List of Reforms** 1

1.127. **Study List of Innovations** 1

1.128. **Study List of Discoveries** 1

1.129. **Study List of Findings** 1

1.130. **Study List**

HISTORY OF OIL OR GAS WELL

U. S. GOVERNMENT PRINTING OFFICE

[illegible]