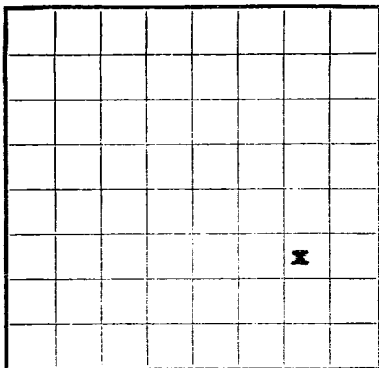
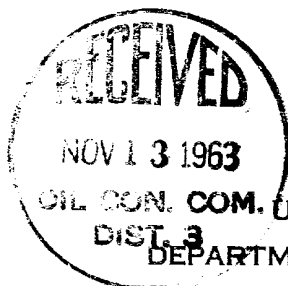




LOCATE WELL CORRECTLY

U. S. LAND OFFICE
SERIAL NUMBER **Navajo Tribe**LEASE OR PERMIT TO PROSPECT
I-149-IND-8479

GEOLOGICAL SURVEY

NOV 12 1963

LOG OF OIL OR GAS WELL

Company **Pan American Petroleum Corporation** Address **P.O. Box 480, Farmington, New Mexico**Lessor or Tract **Gallegos Canyon Unit** Field **Basin Dakota** State **New Mexico**Well No. **146** Sec. **6** T **27N** R. **12W** Meridian **N.M.P.M.** County **San Juan**Location **1615** ft. **N.** of **3** Line and **925** ft. **W.** of **E** Line of **Section 6** Elevation **5697**
(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 _____

Fred L. Nabors, District Engineer

Date **November 8, 1963**

Title _____

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

Commenced drilling **October 9**, 19**63** Finished drilling **October 19**, 19**63**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **5828** to **5844 (G)** No. 4, from _____ to _____No. 2, from **5872** to **5876 (G)** No. 5, from _____ to _____No. 3, from **5885** to **5896 (G)** 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—	
8-5/8"	23.5	8	J-55	845	Guide				Surface
4-1/2"	10.5	8	J-55	6002	Guide				Oil String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	372	230	1 Plug		
4-1/2"	5970	1500	2 Stages		

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

TOOLS USED

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

Cable tools were used from **0** feet to **5982** feet, and from _____ feet to _____ feet

DATES

Completed as shot in Gas well _____ Put to producing _____, 19____

November 4, 1963

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 _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. **5369**

2150 (EMPLOYEES

_____, Driller _____, Driller

G. M. Denton, Driller **Richard Slaughter**, Driller

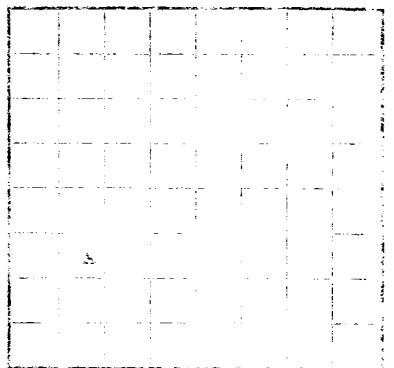
FORMATION RECORD

Arthur G. Miller

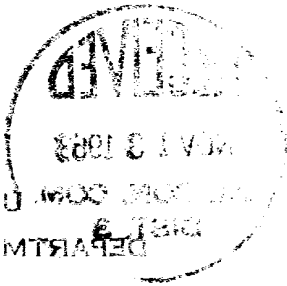
FROM—	TO—	TOTAL FEET	FORMATION
0	1265	1265	Surface sand and shale
1265	1407	142	Pictured Cliffs
1407	2130	723	Lewis
2130	4025	1895	Mesaverde Group
4025	4864	839	Mancos
4864	5250	386	Gallup
5250	5699	449	Mancos
5699	5764	65	Greenhorn
5764	5820	56	Graneros shale
5820	5880	60	Graneros Dakota
5880	5924	44	Main Dakota
5924	5982	58	Lower Dakota

(OVER)

16-48094-4



LOOK AT WELL CORRECTLY



44-38861-10000
10000-44-38861

1-10-1941

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

The information given herewith is a complete and correct record of the well and all work done thereon to the date can be determined from all available records.

Signed _____

Location of well in _____ Township _____ Range _____ of _____ Line and _____ of _____

Well No. _____ Section _____ Township _____ Range _____

Owner or Trust _____

Location of well _____

County _____

State _____

Company _____

Commenced drilling _____, 1907. Finished drilling _____.

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

Date _____ Title _____

OIL OR GAS SANDS OR ZONES

(Detroit 402 by G)

No. 1 from	to	No. 4 from	to
No. 2 from	to	No. 5 from	to
No. 3 from	to	No. 6 from	to

IMPORTANT WATER SANDS

to from 8.0% to from 1.0%
to from 4.0% to from 2.0%

DRIVING RECORD

Case No.	Month	Threats Per Month	Attacks	Deaths	Kind of Case	Time and Dates from	Location	Remarks
1	Jan	1	1	0	Assault	1/1/24	St. Louis	
2	Feb	2	2	0	Assault	2/1/24	St. Louis	
3	Mar	3	3	0	Assault	3/1/24	St. Louis	
4	Apr	4	4	0	Assault	4/1/24	St. Louis	
5	May	5	5	0	Assault	5/1/24	St. Louis	
6	Jun	6	6	0	Assault	6/1/24	St. Louis	
7	Jul	7	7	0	Assault	7/1/24	St. Louis	
8	Aug	8	8	0	Assault	8/1/24	St. Louis	
9	Sep	9	9	0	Assault	9/1/24	St. Louis	
10	Oct	10	10	0	Assault	10/1/24	St. Louis	
11	Nov	11	11	0	Assault	11/1/24	St. Louis	
12	Dec	12	12	0	Assault	12/1/24	St. Louis	

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 "decracked" or left in the well, give the 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

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

MUDGING AND CEMENTING RECORD

Age	Sex	Height	Weight	Build	Complexion	Scars	Other
17	M	5' 10"	170	Medium	Fair	None	None
18	M	5' 10"	170	Medium	Fair	None	None
19	M	5' 10"	170	Medium	Fair	None	None
20	M	5' 10"	170	Medium	Fair	None	None
21	M	5' 10"	170	Medium	Fair	None	None
22	M	5' 10"	170	Medium	Fair	None	None
23	M	5' 10"	170	Medium	Fair	None	None
24	M	5' 10"	170	Medium	Fair	None	None
25	M	5' 10"	170	Medium	Fair	None	None
26	M	5' 10"	170	Medium	Fair	None	None
27	M	5' 10"	170	Medium	Fair	None	None
28	M	5' 10"	170	Medium	Fair	None	None
29	M	5' 10"	170	Medium	Fair	None	None
30	M	5' 10"	170	Medium	Fair	None	None
31	M	5' 10"	170	Medium	Fair	None	None
32	M	5' 10"	170	Medium	Fair	None	None
33	M	5' 10"	170	Medium	Fair	None	None
34	M	5' 10"	170	Medium	Fair	None	None
35	M	5' 10"	170	Medium	Fair	None	None
36	M	5' 10"	170	Medium	Fair	None	None
37	M	5' 10"	170	Medium	Fair	None	None
38	M	5' 10"	170	Medium	Fair	None	None
39	M	5' 10"	170	Medium	Fair	None	None
40	M	5' 10"	170	Medium	Fair	None	None
41	M	5' 10"	170	Medium	Fair	None	None
42	M	5' 10"	170	Medium	Fair	None	None
43	M	5' 10"	170	Medium	Fair	None	None
44	M	5' 10"	170	Medium	Fair	None	None
45	M	5' 10"	170	Medium	Fair	None	None
46	M	5' 10"	170	Medium	Fair	None	None
47	M	5' 10"	170	Medium	Fair	None	None
48	M	5' 10"	170	Medium	Fair	None	None
49	M	5' 10"	170	Medium	Fair	None	None
50	M	5' 10"	170	Medium	Fair	None	None
51	M	5' 10"	170	Medium	Fair	None	None
52	M	5' 10"	170	Medium	Fair	None	None
53	M	5' 10"	170	Medium	Fair	None	None
54	M	5' 10"	170	Medium	Fair	None	None
55	M	5' 10"	170	Medium	Fair	None	None
56	M	5' 10"	170	Medium	Fair	None	None
57	M	5' 10"	170	Medium	Fair	None	None
58	M	5' 10"	170	Medium	Fair	None	None
59	M	5' 10"	170	Medium	Fair	None	None
60	M	5' 10"	170	Medium	Fair	None	None
61	M	5' 10"	170	Medium	Fair	None	None
62	M	5' 10"	170	Medium	Fair	None	None
63	M	5' 10"	170	Medium	Fair	None	None
64	M	5' 10"	170	Medium	Fair	None	None
65	M	5' 10"	170	Medium	Fair	None	None
66	M	5' 10"	170	Medium	Fair	None	None
67	M	5' 10"	170	Medium	Fair	None	None
68	M	5' 10"	170	Medium	Fair	None	None
69	M	5' 10"	170	Medium	Fair	None	None
70	M	5' 10"	170	Medium	Fair	None	None
71	M	5' 10"	170	Medium	Fair	None	None
72	M	5' 10"	170	Medium	Fair	None	None
73	M	5' 10"	170	Medium	Fair	None	None
74	M	5' 10"	170	Medium	Fair	None	None
75	M						

PLUGS AND ADAPTERS

Heating plug—Material	_____
Length	_____
Depth and	_____
Shape	_____
Additional	_____

SHOOTING RECORD

[illegible]

TOOLS USED

1957	feet to	feet and from	feet to	feet and from	feet to	feet and from
1958	feet to	feet and from	feet to	feet and from	feet to	feet and from

DATE

11 gas well, but it per 24 hours	Gallons gasoline per 1,000 cu. ft. of gas
emulsion; ... % water; and ... % sediment	(Gravity, °Bé.
The production for the first 24 hours was	barrels of fluid of which ... % was oil;
101	Put to producing

EMPLOYEES

Driller			
Driller			

FORMATION RECORD

FORMATION	TOTAL FEET	THICKNESS	REMARKS
1. Sandstone	100	100	
2. Shale	200	200	
3. Limestone	150	150	
4. Clay	100	100	
5. Sandstone	100	100	
6. Shale	200	200	
7. Limestone	150	150	
8. Clay	100	100	
9. Sandstone	100	100	
10. Shale	200	200	
11. Limestone	150	150	
12. Clay	100	100	
13. Sandstone	100	100	
14. Shale	200	200	
15. Limestone	150	150	
16. Clay	100	100	
17. Sandstone	100	100	
18. Shale	200	200	
19. Limestone	150	150	
20. Clay	100	100	
21. Sandstone	100	100	
22. Shale	200	200	
23. Limestone	150	150	
24. Clay	100	100	
25. Sandstone	100	100	
26. Shale	200	200	
27. Limestone	150	150	
28. Clay	100	100	
29. Sandstone	100	100	
30. Shale	200	200	
31. Limestone	150	150	
32. Clay	100	100	
33. Sandstone	100	100	
34. Shale	200	200	
35. Limestone	150	150	
36. Clay	100	100	
37. Sandstone	100	100	
38. Shale	200	200	
39. Limestone	150	150	
40. Clay	100	100	
41. Sandstone	100	100	
42. Shale	200	200	
43. Limestone	150	150	
44. Clay	100	100	
45. Sandstone	100	100	
46. Shale	200	200	
47. Limestone	150	150	
48. Clay	100	100	
49. Sandstone	100	100	
50. Shale	200	200	
51. Limestone	150	150	
52. Clay	100	100	
53. Sandstone	100	100	
54. Shale	200	200	
55. Limestone	150	150	
56. Clay	100	100	
57. Sandstone	100	100	
58. Shale	200	200	
59. Limestone	150	150	
60. Clay	100	100	
61. Sandstone	100	100	
62. Shale	200	200	
63. Limestone	150	150	
64. Clay	100	100	
65. Sandstone	100	100	
66. Shale	200	200	
67. Limestone	150	150	
68. Clay	100	100	
69. Sandstone	100	100	
70. Shale	200	200	
71. Limestone	150	150	
72. Clay	100	100	
73. Sandstone	100	100	
74. Shale	200	200	
75. Limestone	150	150	
76. Clay	100	100	
77. Sandstone	100	100	
78. Shale	200	200	
79. Limestone	150	150	
80. Clay	100	100	
81. Sandstone	100	100	
82. Shale	200	200	
83. Limestone	150	150	
84. Clay	100	100	
85. Sandstone	100	100	
86. Shale	200	200	
87. Limestone	150	150	
88. Clay	100	100	
89. Sandstone	100	100	
90. Shale	200	200	
91. Limestone	150	150	
92. Clay	100	100	
93. Sandstone	100	100	
94. Shale	200	200	
95. Limestone	150	150	
96. Clay	100	100	
97. Sandstone	100	100	
98. Shale	200	200	
99. Limestone	150	150	
100. Clay			

FORMATION RECORD—Continued

1574