

Section 10

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LOCATE WELL CORRECTLY

RECEIVED
APR 12 1968
U.S. DEPARTMENT OF
DEFENSE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
MAR 13 1958
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

LOG OF OIL OR GAS WELL

Company Pan American Petroleum Corporation Address Box 487, Farmington, New Mexico

Lessor or Tract Jicarilla Contract 146 Field Otero-Graneros State New Mexico

Well No. 9 Sec. 10 T. 25N R. 5W Meridian N.M.P.M. County El Arriba

Location 1090 ft.

N.
S.

 of S Line and 1090 ft.

E.
W.

 of W Line of Section 10 Elevation 694.6 (DF)
(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.

Date March 13, 1958 Title Field Superintendent

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

Commenced drilling June 8, 1957 Finished drilling August 19, 1957

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 7344 to 7402 (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—	
10-3/4	32.75	8 RT	National	483	Guide				Surface
7-5/8	24	8 RT STD	National	3414	Guide				Intermediate
5-1/2	14	8 RT STD	National	7751	Guide				Oil string

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	490	300 sacks Halliburton 2 plug			
7-5/8	3403	210 sacks Halliburton 2 plug			
5-1/2	7698	450 sacks Halliburton 2 Plug			

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 _____ feet to _____ feet, and from _____ feet to _____ feet.

DATES

Completed as Gas Well, Otero-Graneros Field Put to producing _____, 19____
 Extension Well January 17, 1958 Shut in for pipeline connection

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. 251,000

EMPLOYEES

EMPLOYEES

_____, Driller _____, Driller

Adam R. Murr, Driller John Brown, Driller

L. D. Lasater J. A. Crain
FORMATION RECORD

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2985	2985	Surface sand & shale—Kirtland-Farmington
2985	3147	162	Fruitland sand, shale & coal
3147	3245	98	Pictured Cliffs
3245	4825	1585	Lewis (La Ventura 4043-68')
4825	4987	162	Cliffhouse sands
4987	5347	360	Menefee sand & shale
5347	5544	197	Point Lookout sands
5544	6390	846	Mancos
6390	----		Gallup
----	----		Tocito
----	7275		Sanastee
7275	7353	78	Greenhorn
7353	7489	136	Graneros
7489	7683	194	Dakota
7683	7698	5	Morrison

<p>1. NAME</p> <p>2. ADDRESS</p> <p>3. CITY</p> <p>4. STATE</p> <p>5. ZIP</p>	<p>6. PHONE</p> <p>7. FAX</p> <p>8. TELETYPE</p> <p>9. CABLE</p> <p>10. E-MAIL</p>	<p>11. BUSINESS</p> <p>12. INDUSTRY</p> <p>13. OCCUPATION</p> <p>14. EDUCATION</p> <p>15. EXPERIENCE</p>	<p>16. REFERENCES</p> <p>17. REFERENCES</p> <p>18. REFERENCES</p> <p>19. REFERENCES</p> <p>20. REFERENCES</p>
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<p>26. EDUCATION</p> <p>27. EDUCATION</p> <p>28. EDUCATION</p> <p>29. EDUCATION</p> <p>30. EDUCATION</p>			
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HISTORY OF OIL OR GAS WELL

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.

This well was spudded on July 8, 1957, and 10-3/4" casing was set at 490' with 300 sacks of cement, and after waiting on cement for 24 hours, casing and water shut-off were tested with 800 pounds pressure for 30 minutes with no drop in pressure.

7-5/8" casing was set at 3400' with 160 sacks of cement followed by 50 sacks cement, and after waiting on cement for 24 hours, casing and water shut-off were tested with 2000 pounds pressure for 15 minutes with no drop in pressure.

5-1/2" casing was set at 7698' with 400 sacks of cement, and followed by 50 sacks of cement. Casing and water shut-off were tested with 550 pounds pressure, which held with no drop in pressure.

This well was perforated with four shots, one each 7341-7402. These formations were acidized with 500 gallons acid, and was then sand-oil fracked with 15,000 gallons of oil and 15,000 pounds sand. Formation broke at 2200 pounds pressure, average injection rate 15 barrels per minute. Tubing was landed at 7353. Well was completed as a gas well, Otero Graneros Field Extension well on January 17, 1958.

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STOCHASTIC ANALYSIS

DETERMINED BY THE PROSECUTOR

UNITED STATES

[illegible]

1. *Pharmaceuticals* (1997) 10, 11.