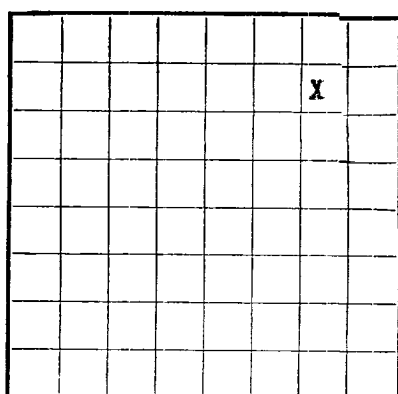


U. S. LAND OFFICE **Jicarilla Apache**
SERIAL NUMBER **Jicarilla Contract**
LEASE OR PERMIT TO PROSPECT **148**



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Pan American Petroleum Corporation Address Box 487, Farmington, New Mexico
 Lessor or Tract Jicarilla Contract 148 Field South Blanco-Pictured Cliffs State New Mexico
 Well No. 12 Sec. 24 T. 24N R. 5W Meridian N.M.P.M. County Rio Arriba
 Location 1150 ft. Box S of N. Line and 990 ft. Box W of E Line of Section 24 Elevation 6897
 (Descrip 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.

so far as can be determined from all available records.

Signed _____ ORIGINAL SIGNED BY
R. M. Bauer, Jr.

Date January 30, 1959 Title Field Engineer

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

Commenced drilling January 12, 19 59 Finished drilling January 18, 19 59

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3129 to 3164 (3) 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 casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8-5/8	22.7	Slip joint	Armco	205	Guide				Surface
4-1/2"	9.5	SST	National	3219	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"	211	160 sacks of cement	Halliburton	No. 2 plug	
4-1/2"	3209	250 sacks of cement	Halliburton	No. 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 0 feet to 3209 feet, and from _____ feet to _____ feet.
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet.

DATES

Completed as shut-in South Blanco-
 Pictured Cliffs Field Development Gas
 Well January 24, 1959
 Preliminary test 7790 hours was
 emulsion; -----% water; and -----% sediment.

DATE: -----
 Put to producing -----
 Shut in for pipeline connection: January 24, 1959
 ----- barrels of fluid of which -----% was oil; -----%
 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. 7,790,000

EMPLOYEES

(Shut in casing pressure 7 days.)

-----, Driller	-----, Driller
F. J. Buck	John Wright
-----, Driller	-----, Driller
Pete Estes	Jackie White

FORMATION RECORD

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2757	2757	Surface sands & shales.
2757	3129	372	Kirtland-Fruitland
3129	3164	35	Pictured Cliffs
			(Tops from H log)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

11/26/2016 10:00 AM

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (A), 10⁷ cells/ml (B), 10⁸ cells/ml (C), and 10⁹ cells/ml (D). The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (A), 10⁷ cells/ml (B), 10⁸ cells/ml (C), and 10⁹ cells/ml (D). The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (A), 10⁷ cells/ml (B), 10⁸ cells/ml (C), and 10⁹ cells/ml (D).

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

U. S. GOVERNMENT PRINTING OFFICE 16-48094-2

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