Form 9-330

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

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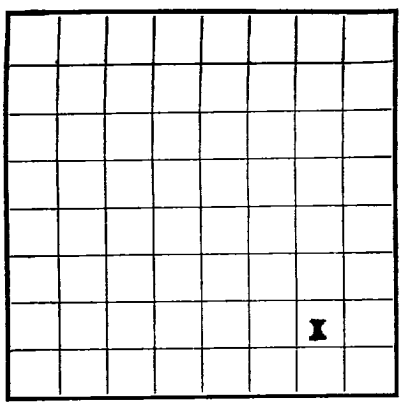
OIL CON. COM.
DIST. 3

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078093
LEASE OR PERMIT TO PROSPECT



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 Rosa Unit Field Wildcat State New Mexico
Well No. 33 Sec. 22 T. 31N R. 4W Meridian N.M.P.M. County Rio Arriba
Location 950 ft. {N./S.} of S Line and 900 ft. {E./W.} of E Line of Section 22 Elevation 7229
(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 ORIGINAL SIGNED BY L. O. Speer, Jr.
Title Field Superintendent

Date August 12, 1958

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

Commenced drilling June 19, 19 58 Finished drilling July 9, 19 58

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4063 to 4114 (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 From—	Perforated To—	Purpose
8-5/8"	24.7	Slip Joint	Armco	487	Guide				Surface
5-1/2"	14	8RT	National	4313	Baker				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"	493'	300 sacks Halliburton No. 2 Plug			
5-1/2"	4317'	175 sacks 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 ____ feet to ____ feet, and from ____ feet to ____ feet
Cable tools were used from 0 feet to 4317 feet, and from ____ feet to ____ feet

DATES

Completed as non-commercial Pictured Cliffs Gas Well, Temporarily Abandoned 19
Put to producing Temporarily Abandoned, 19
August 8, 1958 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. 323,000

Tested 323 MCFPD Pitot Tube Measurement

EMPLOYEES

1196 Shut in casing pressure 7 days.
____, Driller ____, Driller
J. M. Murphy, Driller J. J. Jordan, Driller
M. W. McDonald Billy E. Guess

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	3704	4704	Undifferentiated sands & shales.
3704	3900	196	Kirtland sands & shales.
3900	4063	163	Fruitland sands, shales & coals.
4063	4317	254	Pictured Cliffs sands & shales.

[OVER]

16—43094-4

FOLD | MARK

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
			Drilled
			Drilled

EMPLOYEES

DATES

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

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

PLUGS AND ADAPTERS

Heaving plug—Material

Length Depth set

CASING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used	Depth cleaned out

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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.

Rosa Unit Well No. 33 was spudded on June 19, 1958, and on June 20, 1958, 8-5/8" casing was landed at 493' with 300 sacks of cement. After waiting on cement, casing and water shut-off were tested with 400 pounds pressure for thirty minutes, which held with no drop in pressure.

5-1/2" casing was landed at 4317' with 100 sacks 4% gel cement followed by 75 sacks neat. Casing and water shut-off were tested to 3000 pounds for thirty m nutes, which held with no drop in pressure. Top cement 3250' by temperature survey.

Perforated Pictured Cliffs with four shots per foot 4075-4100'. Spotted 500 gallons 15% mud cut acid over perforations. Sand-water fracked with 25,000 gallons water and 35,000 pounds sand using 25 gallons Hyfle in first 100 barrels. Formation broke at 1350 pounds, treating pressure 1250 pounds, average injection rate 40 barrels per minute. 2" tubing was landed at 4118'.

Tested well flowed 323 MCFPD thru 3/4" choke after 3 hours with spray of water. Seven-day shut in tubing and casing pressure 1196 pounds. Tubing pressure flowing 19 lbs. Casing pressure flowing 104 lbs.

Well temporarily abandoned August 8, 1958. Left 2 inch tubing and well head on well pending further operations.

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

UNITED STATES

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