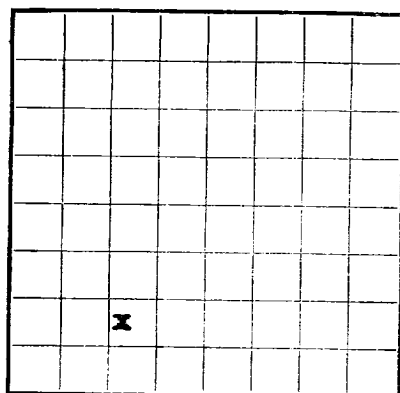


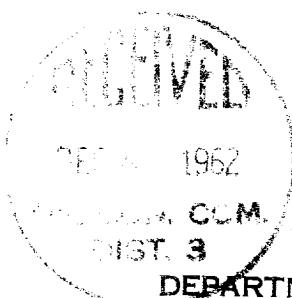
U. S. LAND OFFICE Jicarilla Tribal

SERIAL NUMBER _____

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 480, Farmington, New Mexico
Lessor or Tract Jicarilla Contract 146 Field Otero Chacra State New Mexico
Well No. 15 Sec. 9 T. 25N R. 5W Meridian N.M.P.M. County Rio Arriba
Location 940 ft. N. of S. Line and 1450 ft. E. of W. Line of Section 9 Elevation _____
(Derriek 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 _____

Date November 30, 1962Title Petroleum Engineer

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

Commenced drilling October 29, 19 62 Finished drilling November 5, 19 62

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3781 to 3785 (G) No. 4, from _____ to _____
No. 2, from 3790 to 3794 (G) 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—	
<u>8-5/8</u>	<u>27.7</u>	<u>6</u>	<u>Armo</u>	<u>300</u>	<u>Guide</u>				<u>Surface</u>
<u>4-1/2</u>	<u>9.5</u>	<u>8</u>	<u>Armo</u>	<u>3909</u>	<u>Guide</u>				<u>Oil String</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8</u>	<u>210</u>	<u>200</u>	<u>B.J. 1 Plug</u>		
<u>4-1/2</u>	<u>3897</u>	<u>300</u>	<u>B.J. 2 Plug</u>		

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 3900 feet, and from _____ feet to _____ feet

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

DATES

_____, 19 62 Completed as shut in well Put to producing _____, 19 62

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 1572 Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. 760 (SIC)

EMPLOYEES

G. B. Sanderfer, Driller James Smith, DrillerJackie White, Driller Pete Estes, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>2304</u>	<u>2304</u>	<u>Surface Sand and Shale</u>
<u>2304</u>	<u>2500</u>	<u>196</u>	<u>Ojo Alamo Sand</u>
<u>2500</u>	<u>2867</u>	<u>367</u>	<u>Kirtland-Fruitland Shale and Sand</u>
<u>2867</u>	<u>2948</u>	<u>81</u>	<u>Pictured Cliffs Sand</u>
<u>2948</u>	<u>3750</u>	<u>802</u>	<u>Lewis Shale</u>
<u>3750</u>	<u>3812</u>	<u>62</u>	<u>Chacra Sand</u>
<u>3812</u>	<u>3900</u>	<u>88</u>	<u>Lewis Sand and Shale</u>

[illegible]

...and words to flow out to others and not at you; did not want to

SECRET TO SCRAMS BELL NO HO
[illegible]

IMPORTANT WATER BANDS

No. 1 Band	No. 2 Band
No. 3 Band	No. 4 Band

[illegible]

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of re-drilling, 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 "backchecked" or left in the well, give its name and location. If the well has been dynamited, give date, size, position, and number of shots. If pipes or bridges were put in to test for water, state kind of material used, position, and results of pumping or boring.

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

Q. 10-27