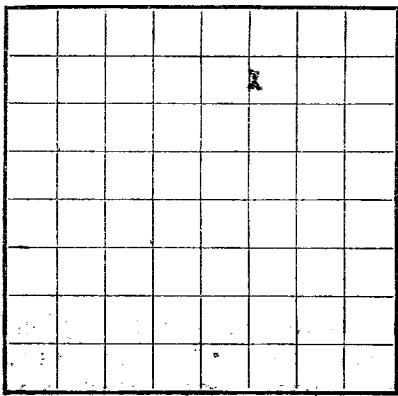


Ute Mountain
U. S. LAND OFFICE Tribal
SERIAL NUMBER 14-20-604-121
LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Pan American Petroleum Corporation Address Box 487, Farmington, New Mexico
Lessor or Tract Ute Mountain Tribal #2 Field Verde Gallup State New Mexico
Well No. 2 Sec. 28 T. 31 R. 14 Meridian N. 1. E. County San Juan
Location 990 ft. N. of 11 Line and 1980 ft. E. of 3 Line of Section 28 Elevation 5553'
(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 R. M. Bauer, Jr.

Date January 21, 1960 Title Area Engineer

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

Commenced drilling September 30, 19 59 Finished drilling October 16, 19 59

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 3230 to 3344 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—	
<u>8-5/8"</u>	<u>22.7</u>	<u>5 1/2</u>	<u>Slip Joint</u>	<u>203</u>	<u>Collar</u>				<u>Surface</u>
<u>5-1/2"</u>	<u>11</u>	<u>8RT</u>	<u>National</u>	<u>320</u>	<u>Collar</u>				<u>Oil String</u>
<u>4"</u>			<u>Slotted liner open ended with teeth on bottom and set at 3132-3344'</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>218</u>	<u>160</u>	<u>Halliburton 1 Flmg</u>		
<u>5-1/2"</u>	<u>3205</u>	<u>410</u>	<u>Baker 2 Stage</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 3344 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Completed as pumping oil well _____ Date first new oil produced January 9, 1960
Verde Gallup Field Put to producing 99.3
January 9, 1960 The production for the first 24 hours was 10 barrels of fluid of which 41.0 % was oil; _____ %
emulsion; _____ % water; and .2 % sediment. Gravity, °Bé. _____
Gas oil ratio not yet available
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

E. J. Webb, Driller V. F. McKee, Driller
A. Y. Old, Driller Coy Flemmons, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>758</u>	<u>758</u>	<u>Surface sands and shales</u>
<u>758</u>	<u>2035</u>	<u>1277</u>	<u>Mesa Verde sands, shales, and coals</u>
<u>2035</u>	<u>3040</u>	<u>1005</u>	<u>Mancos shale</u>
<u>3040</u>	<u>3218</u>	<u>178</u>	<u>Gallup sands and shales</u>
<u>3218</u>	<u>3344</u>	<u>126</u>	<u>Verde Gallup pay sands and shales</u>
			(Tops from A. log)

