

Ute Mountain Tribal
U. S. LAND OFFICE
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 "FW" Field Verde Gallup State New Mexico
Well No. 1 Sec. 28 T. 31N R. 14W Meridian N.M.P.M. County San Juan
Location 960 ft. [S.] of N Line and 660 ft. [E.] of W Line of Section 28 Elevation 5586
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the work done thereon so far as can be determined from all available records.
Signed L. O. Spear, Jr.

Date August 10, 1959 Title Area Clerk Superintendent

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

Commenced drilling June 1, 1959 Finished drilling June 16, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3415 to 3520 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—	
8-5/8"	22.7	31 1/2	Joint	191	Guide				Surface
5-1/2"	14	24	SRP	3367	Guide				Oil String
4" Slotted liner open ended with teeth on bottom and reversed Texas pattern guide shoe on top set 3326-3520'.									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	200'	160 sacks of cement	Halliburton 1 plug		
5-1/2"	3371	410 sacks of cement	Baker 2 stage		

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 3520 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

Completed pumping oil well Date first new oil produced
Verde Gallup Field August 9, 1959 Put to producing August 7, 1959

Potential test pumped 99 barrels oil in 23 hours of fluid of which 99.8% was oil; %
emulsion; % water; and .2% sediment. Gravity, °Bé. 41.0 API

Gas oil ratio not yet available Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

EMPLOYEES

Cotton Gibson, Driller J. W. Jernigan, Driller
W. H. Lingo, Driller M. O. Bersold, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	199	199	Surface sands & shales.
199	900	701	Lewis shale.
900	2200	1300	Mesaverde sands, shales & coals.
2200	3204	1004	Mancos shale.
3204	3415	211	Gallup sands & shales.
3415	3520	105	Verde Gallup pay sands & shales.
			(Tops from E log)

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.

Ute Mountain Tribal Oil Well No. 1 was spudded on June 1, 1959 and 8-5/8" casing was set at 200' with 160 sacks of cement containing 2% calcium chloride. 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. Reduced hole to 7-7/8" at 200' and resumed drilling operations.

total depth 3075. 5-1/2" casing was set at 3371' and cemented in 2-stages with strapping tool set at 3073. First stage with 60 sacks of cement mixed with 2

Hand-off tracked callup with 6609 call sign and 65 000

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

— *Chlorophyll a* (mg g⁻¹ FW) = 12.72 (OD₆₈₀)^{0.78} (R² = 0.98) (Eq. 1)

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