

U. S. LAND OFFICE ----- **Santa Fe**

SERIAL NUMBER

LEASE OR PERMIT TO PROSPECT

Santa Fe

000232

UNITED STATES RECEIVED
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
JUN 1 1958

1959

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Pan American Petroleum Corporation Address Box 487, Farmington, New Mexico
Lessor or Tract USA A. W. Rutter Field Bisti-Lower Gallup State New Mexico
Well No. 1 10 24N 10W Meridian NMPM County San Juan
Location 660 ft. N. of N Line and 660 ft. S. of W Line of Section 10 Elevation 6956
(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

Date June 30, 1958

Title **Field Superintendent**

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

Commenced drilling May 16, 1958 Finished drilling May 27, 1958

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

(Denote gas by G)

No. 1, from 5360 to 5385	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

[illegible]

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	396	290	Halliburton 2	Plug	
5-1/2	5471	110	Halliburton 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 5485 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Completed as a pumping oil well
Bisti-Lower Gallup Field

June 25, 1958

DATES

Put to producing June 25, 1958

The production for the first 24 hours was 28 barrels of fluid of which 89.2 % was oil; ----- % emulsion; 10.8 % 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. _____

EMPLOYEES

<u>L. E. Webb</u>	Driller	<u>G. M. Benton</u>	Driller
<u>R. C. Cary</u>	Driller	<u>Chas. Lockhart</u>	Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	396	396	Surface sands & shale
396	1018	622	Kirtland-Fruitland sand & shale
1018	1728	710	Ojo Alamo sand
1728	1818	90	Pictured Cliffs sand
1818	2478	660	Lewis shale
2478	3073	595	Cliffhouse sand
3073	4155	1082	Mansfee sand
4155	4345	190	Point Lookout sand
4345	5075	730	Mancos shale
5075	5460	385	Gallup sand
			(Tops from E Log)

[OVER]

16-43094-4

AT THE END OF COMPLETE DRILLER'S LOG, ADD GEOLOGIC TOPS. STATE WHETHER FROM EL OR SAMPLES.

FORMATION RECORD—Continued

	FROM-	TO-	TOTAL FEET	FORMATION
U.S. GOVERNMENT PRINTING OFFICE 16-48094-2				

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 "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.

This well was spudded on May 16, 1958, and on May 17, 1958, 8-5/8" casing was set at 396', with 290 sacks of cement. After waiting on cement for 24 hours, casing and water shut-off were tested with 400 pounds pressure for 30 minutes, which held no drop in pressure.

On May 27, 1958, 5-1/2" casing was set at 5471' with 60 sacks 4 1/2 gal cement and followed by 50 sacks neat cement. Top cement 4500' by temperature survey. Casing and water shut off were tested to 3000 pounds pressure for thirty minutes which held no drop in pressure.

On June 2, 1958, perforated four shots per foot 5368-5385. Spotted 1000 gallons acid. Sand-oil treated with 30,000 gallons oil and 30,000 pounds sand, using 25 gallons Average Injection rate 45 barrels per minute. Formation broke at 1800 pounds. H/L in first 100 barrels.

45 barrels per minute.