NMOCC

Form 3-330

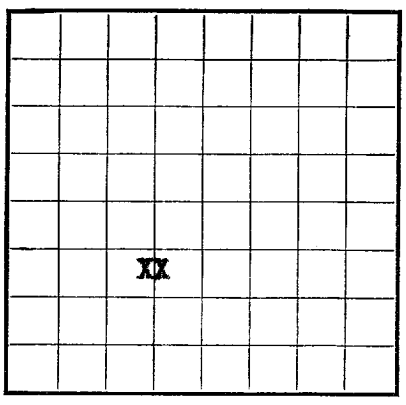
Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE Navajo Tribal
SERIAL NUMBER 14-20-603-1423
LEASE OR PERMIT TO PROSPECT

RECEIVED
MAR 25 1958
OIL CON. COM.
DIST. 3

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
MAR 24 1958
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company Pan American Petroleum Corporation Address Box 487, Farmington, New Mexico

Lessor or Tract Ka-Da-Peh Field Bisti-Lower Gallup State New Mexico

Well No. 2 Sec. 3 T. 25N R. 12W Meridian N.M.P.M. County San Juan

Location 2080 ft. {N. / S.} of S Line and 1980 ft. {E. / W.} of W Line of Section 3 Elevation 6201 (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 March 19, 1958 Title Field Superintendent

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

Commenced drilling January 15, 19 58 Finished drilling February 1, 19 58

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4816 to 4848 No. 4, from to

No. 2, from 4880 to 4890 No. 5, from to

No. 3, from 4896 to 4910 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"	22.7	Slip Joint	Armco	330	Guide				Surface
5-1/2"	14	8 RT	National	4996	Guide				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"	336	260 sacks Halliburton 1 Plug			
5-1/2"	4979	200 sacks 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 4990 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, Bisti-Lower Gallup Field, 19 58 Put to producing March 13, 19 58

The production for the first 24 hours was 25 barrels of fluid of which 99.8% was oil; % emulsion; % water; and .2% sediment.

Gravity, °Bé. 39°

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Gas-oil ratio 3409

Rock pressure, lbs. per sq. in.

EMPLOYEES

Doyal Proctor, Driller D. D. Martin, Driller

R. W. Lambright, Driller J. S. Workman, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	338	338	Surface sands & shales.
338	1117	779	Kirtland-Fruitland sands & shales.
1117	1236	119	Pictured Cliffs sands & shales.
1236	1880	644	Lewis shale.
1880	3633	1753	Lewis shale.
3633	3770	137	Un-differentiated sands & shale.
3770	4720	950	Mancos
4720	4990	270	Gallup sands & shales.

[OVER]

16—43094-4

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

FOLD | MARK

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

16—43094-2 U. S. GOVERNMENT PRINTING OFFICE

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.

Ka-Da-Pah Well No. 2 was spudded on January 15, 1958, and 8-5/8" casing was set at 336' with 260 sacks of cement. After waiting on cement for twenty-four hours, casing and water shut-off were tested with 500 pounds pressure for thirty minutes, which held with no drop in pressure.

5-1/2" casing was set at 4979' with 100 sacks cement. After waiting on cement for five days, casing and water shut-off were tested with 2500 pounds (special test) for 15 minutes, which held with no drop in pressure.

This well was perforated with four shots per foot 4816-48, 4880-90,4896-4910. Sand-oil fracked with 50,000 gallons oil and 50,000 pounds sand. Formation broke at 2650 pounds. Average injection rate 34 BPM. Injected 125 rubber balls during frac for selective treatment. A pumping unit has been installed and well was completed as a pumping oil well, Bisti-Lower Gallup Field on March 13, 1958, Potential test 3/13/58 pumps 25 barrels of oil in twenty-four hours, 15/44" SPM with GOR 3409.