Form 9-330

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

U. S. LAND OFFICE New Mexico
SERIAL NUMBER 032325
LEASE OR PERMIT TO PROSPECT

RECEIVED MAR 31 1958 OIL CON. COM. DIST. 3

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company Pan American Petroleum Corporation Address Box 487, Farmington, New Mexico
Lessor or Tract Sarah E. Lilly "B" Field West Kutz-Pictured Cliffs State New Mexico
Well No. 1 Sec. 8 T. 27N R. 12W Meridian N.M.P.M. County San Juan
Location 990 ft. {N./S.} of N Line and 990 ft. {E./W.} of E Line of Section 8 Elevation 5736 (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 26, 1958 Title Field Superintendent

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

Commenced drilling February 28, 1958 Finished drilling March 5, 1958

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1306 to 1317 (G) 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 From—	Perforated To—	Purpose
8-5/8"	24.7	Slip Joint	Armco	95	Guide				Surface
5-1/2"	14	8RT	National	1347	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"	101	90 sacks	Halliburton 1 Plug		
5-1/2"	1346	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 feet to feet, and from feet to feet
Cable tools were used from 0 feet to 1347 feet, and from feet to feet

DATES

Completed as shut in West Kutz-Pictured Cliffs Field Dev. Gas Well, 19 Put to producing Shut in for pipeline connection, 19

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 404,000 Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. 395 SICP (4 Pts.)

EMPLOYEES

Preliminary gauge 404 MCFPD Pitot Tube Measurement, Driller
C. B. Guffey, Driller Stanley J. Stanley, Driller
H. B. Barker, Driller D. G. Smith, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	160	160	Surface sand & shale, Animos shale.
160	1035	875	Kirtland-Farmington sands & shales.
1035	1302	267	Fruitland sands, shales & coals.
1302	1349	47	Pictured Cliffs sandstone.

[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.

Sarah E. Lilly "B" Well No. 1 was spudded on February 28, 1958, and on March 1, 1958, 8-5/8" casing was set at 101' with 90 sacks cement. After waiting on cement for 24 hours, casing and water shut-off were tested with 400 pounds pressure for thirty minutes, which held with no drop in pressure.

5-1/2" casing was set at 1346' with 150 sacks [illegible] gel cement and followed by 50 sacks neat cement. After waiting on cement, casing was tested with 3000 pounds pressure (special test) for thirty minutes, which held with no drop in pressure.

Perforated with four shots per foot 1306-17. Sand-water fracked with 15,000 gallons water and 20,000 pounds sand. Preceded frac with 110 gallons mud acid, using 8 gallons Dowell F-33 and 15 gallons W-17 agents in treatment. Formation broke at 1100 pounds pressure. Average injection rate 52 BPM. 1½" tubing landed at 1305'.

Completed as shut-in West Kutz-Pictured Cliffs Field Development Gas Well on March 12, 1958.

Preliminary gauge 404 MCFPD Pitot Tube Measurement.

RECEIVED
MAR 31 1958