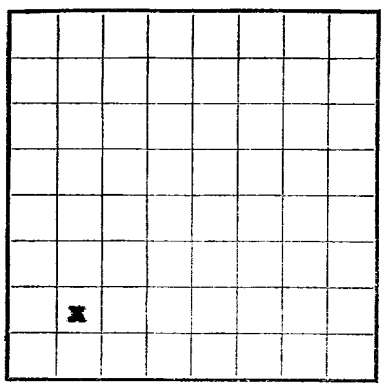
Form 9-330

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

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER SF-078019
LEASE OR PERMIT TO PROSPECT E. H. Pipkin

APR 18 1961

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company Pan American Petroleum Corporation Address Box 480, Farmington, New Mexico
Lessor or Tract E. H. Pipkin Field Basin Dakota State New Mexico
Well No. 11 Sec. 12 T. 27N R. 11W Meridian N.M.P.M. County San Juan
Location 1110 ft. [N.] of S Line and 880 ft. [E.] of W Line of Section 12 Elevation 6011
(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.

ORIGINAL SIGNED BY
Signed R. M. Bauer, Jr.

Date April 14, 1961 Title Senior Petroleum Engineer

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

Commenced drilling March 10, 19 61 Finished drilling March 23, 19 61

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 6311 to 6335 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#	8rd	Unkn	277	Guide				Surface
4-1/2"	9.5#	8rd	CF&I	6451	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"	290	200	Halliburton	1 Plug.	
4-1/2"	6440	525	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 6440 feet, and from ____ feet to ____ feet
Cable tools were used from ____ feet to ____ feet, and from ____ feet to ____ feet

DATES

Completed as shut in Basin Dakota Field Development Well. April 9, 19 61 Put to producing Shut in for pipeline connection. April 9, 19 61

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 MCF xxxx Gallons gasoline per 1,000 cu. ft. of gas ____

Rock pressure, lbs. per sq. in. 1304

EMPLOYEES

____, Driller ____, Driller
J. D. Roe, Driller J. G. Brinkley, Driller
R. C. Casey C. Lockhart

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	728	728	Surface sands and shales.
728	813		Ojo Alamo sand.
813	1799		Kirtland, Farmington and Fruitland sands shales and coals.
1799	1977		Pictured cliffs sands and shales.
1977	3368		Lewis shale.
3368	4473		Mesaverde sands and shales.
4473	5328		Mancos shale.
5328	6151		Gallup sands and shales.
6151	6205		Greenhorn sandy shale.
6205	6308		Graneros sands and shales.
6308	6430		Dakota sand and shales.

(Tops from E log)

FOLD MARK

16—43094-4

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.

Spudded well on March 10, 1961. On March 11, 1961, 8-5/8" casing was set at 290' with 200 sacks cement with 2 percent Calcium Chloride. Circulated 20 sacks of cement. Waited on cement 12 hours. Test casing with 300 psi for 30 minutes. Test ok. Reduced hole from 12-1/4" to 7-7/8" at 290' and resumed drilling.

Total depth 6440. 4-1/2" casing set at 6440' with stage tool at 2075. First stage cemented with 275 sacks 6% gel with 1-1/2 pounds tuf plug per sack followed by 100 sacks neat. Second stage cemented with 150 sacks 6% gel. After waiting on cement 16 hours, tested with 1600 psi. Test ok. Completion operations were begun.

Spotted 500 gallons 15% acid. Perforated Dakota 6311-35 with 4 shots per foot. Fracked with 40,000 gallons water containing 1% calcium chloride and 5 pounds WG-4 per 1000 gallons and 40,000 pounds sand. Breakdown pressure 2700 psi. Maximum treating pressure 3000 psi. Average injection rate 34 barrels per minute. Preliminary test 1304 MCF per day. Completed as Basin Dakota Field well April 9, 1961.