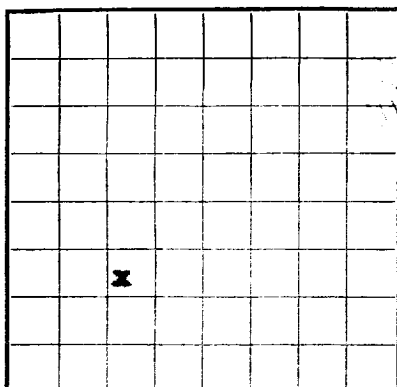


U. S. LAND OFFICE Jicarilla Tribal
SERIAL NUMBER Contract No. 146
LEASE OR PERMIT TO PROSPECT _____

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL 3

Company Pan American Petroleum Corporation Address Box 480, Farmington, New Mexico
Lessor or Tract Jicarilla Contract No. 146 Field Basin Dakota State New Mexico
Well No. 11 Spec. 4 T. 25 R. 35 Meridian N. 100° E. County Rio Arriba
Location 1510 ft. S. of 9 Line and 1220 ft. E. of W. Line of Section 1 Elevation 6660'
(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 R. M. Bauer, Jr.
Date July 13, 1961 Title Senior Petroleum Engineer

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

Commenced drilling May 20, 1961 Finished drilling June 9, 1961
OIL OR GAS SANDS OR ZONES
(Denote gas by G)
No. 1, from 7109 to 7115 No. 4, from _____ to _____
No. 2, from 7125 to 7129 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"	20.5	8RT	CR-I	323	Ball	_____	_____	_____	Surface
4-1/2"	9.57	8RT	CR-I	7477	Ball	_____	_____	_____	Oil String
HISTORY OF OIL OR GAS WELL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	535	350	Halliburton	2 plug	
4-1/2"	7463	830	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 _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Potential test June 30, 1961, well shut in _____ Completed as shut in Basin Dakota Field
Put to producing _____ June 30, 1961

The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ %
emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. _____

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

Rock pressure, lbs. per sq. in. 1725 psi

EMPLOYEES

_____, Driller _____, Driller
Stilks Priddy _____, Driller Leon Westal _____, Driller
D. S. Wisener _____, Driller Pete Estes _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2902	2902	Undifferentiated sands and shales.
2902	2984	82	Pictured cliffs sands and shales.
2984	4560	1576	Lewis shale.
4560	4650	90	Cliffhouse sand.
4650	5090	440	Manefee sands, shales, and coals.
5090	5288	198	Point Lookout sands and shales.
5288	6142	854	Mancos shale.
6142	6707	565	Gallup sands and shales.
6707	7020	313	Sanastee sands and shales.
7020	7097	77	Greenhorn sands and shales.
7097	7236	139	Graneros sands and shales.
7236	7464	228	Dakota sands and shales.

(Top from "K" log)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

A blank sheet of graph paper with a grid pattern. The grid consists of horizontal and vertical lines forming squares. There are approximately 10 columns and 8 rows visible. A small, dark mark or smudge is present near the bottom center of the page.

Y 1729860 1 01/27/2011

NOVA in completed unit. Tested 7-1/2" casing with 3000 psi, which held with no indication of pressure drop. Spotted 850 gallons BSW. An correlation log.
Refractured at the depth of 1108' - 1115', and 1125'-1129'. Small gas cracks
with 15,000 gallons water cement slurry. A sandstone section of 10' was exposed
3-68 per 1000 gallons and 30,000 pounds mud. Freshwater water breakdown
3100-2900 psi; maximum treating 3500 and minimum treating 2900 psi. Average
injection rate 3 barrels per minute and completed as shut in gas in borehole fluid
well. Potential test June 30, 1961 showed 615 MCF per day.

Lessor or Licensee's Certificate No. 1455

State of Texas Oil & Gas Commission

Company name and address (same as above) _____

[illegible]

Spudded at 1/4 mile on March 18, 1967, and drilled to 955'. Set 8-5/8" casing at 555' with 390 sacks cement containing 2 percent calcium chloride. Circulated 50 sacks cement. After waiting on cement, tested 8-5/8" casing with 500 psi for 30 minutes, which held with no indication of pressure drop. Reduced hole to 7-7/8" at 555' and resumed drilling operations.

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 flags or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

HISTORY OF OIL OR GAS WELL

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

MUDPIPING AND CEMENTING RECORD

Beam built to standard	Beam built specially	Method used	Number sacks of cement	Weight of concrete	Cost
	10' x 12" x 12"	Cast in place	100	1000	100
	10' x 12" x 12"	Cast in place	100	1000	100

PLUGS AND ADAPTERS

SHOOTING RECORD

[illegible]

TOOLS USED

test	test to	test and from	test	test to	test and from
test	test to	test and from	test	test to	test and from

DATE

The production for the first 24 hours was June 30 81	But for producing June 30 81
--	--

.....	% water; and	 % sediment.
.....	Gravity, °Be.	

Book program for period in

EMPLOYEES

Driller	Driller	Driller	Driller
Driller	Driller	Driller	Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	5-400	5502	Unit 1: sandstone and shale.
500	5-400	55	Unit 2: sandstone and shale.
550	5-400	1570	Unit 3: shale.
1550	5-400	55	Unit 4: sandstone.
1600	5-400	440	Unit 5: sandstone, shale, and coal.
2000	5-400	195	Unit 6: sandstone and shale.
2100	5-400	55	Unit 7: shale.
2150	5-400	55	Unit 8: sandstone and shale.
2200	5-400	313	Unit 9: sandstone and shale.
2500	5-400	77	Unit 10: sandstone and shale.
2577	5-400	133	Unit 11: sandstone and shale.
2700	5-400	550	Unit 12: sandstone and shale.

INFORMATION RECORD—Continued

ET

FORMATION