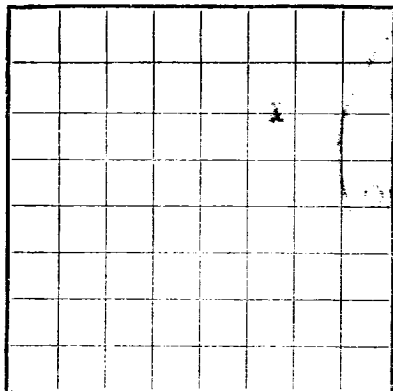


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER ST 078019
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company San Antonio Petroleum Corporation Address P.O. Box 487, Farmington, New Mexico
Lessor or Tract H. H. Pinkin Field Angels Peak State New Mexico
Well No. 5 Sec. 36 T. 28N R. 11W Meridian 10N County San Juan
Location 1155 ft. N of 3 Line and 1465 ft. E of 36 Line of section 36 Elevation 4291 (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 R. M. Egan Title Area Engineer
Date May 23, 1960

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

Commenced drilling April 21, 1959 Finished drilling May 3, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 6153 to 6157 No. 4, from to
No. 2, from 6158 to 6171 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	
<u>8-5/8"</u>	<u>22.7</u>	<u>3</u>	<u>301</u>	<u>301</u>	<u>Guide</u>	<u> </u>	<u> </u>	<u> </u>	<u>Sealed</u>
<u>4-1/2"</u>	<u>9.5</u>	<u>8</u>	<u>4-55</u>	<u>6265</u>	<u>Guide</u>	<u> </u>	<u> </u>	<u> </u>	<u>Oil stringer</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8"</u>	<u>332'</u>	<u>275 sacks of cement</u>	<u>B. I. Service 2 log</u>	<u> </u>	<u> </u>
<u>4-1/2"</u>	<u>624'</u>	<u>270 sacks of cement</u>	<u>Baker 2 Stars</u>	<u> </u>	<u> </u>

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 6245 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

Completed as shut in gas well Angels Peak Santa Fe Shut in for pipeline connection
Santa Fe May 17, 1960 Put to producing May 17, 1960

The production for the first 24 hours was barrels of fluid of which % was oil; %

emulsion; % water; and % sediment. Gravity, °Bé.

Test 6,333 ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

Potential test will be submitted on January 1961

J. C. Pinkie, Driller A. C. Carey, Driller
Charles Lockhart, Driller J. L. Lee, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	75	545	Surface sands and shale
545	640	75	Ojo Alamo sand
640	1375	755	Kirtland shales and sands including Farmington sand
1375	1625	250	Fruitland sands, shales and coals
1625	1710	85	Pictured Cliffs sands
1710	3140	1430	Lewis shale
3140	4290	1150	Yesavada sands and shales
4290	5185	895	Kaneo shale
5185	5955	770	Tallus sands and shales
5955	6070	115	Greenhorn sandy shale
6070	6075	5	Graneros sands and shales
6075	6150	75	Sakota sands and shales
6150	6245	95	Sakota clay sands and shales

(Top from 6' low)

— 1975 —

SECRET

VERNO, J. A. 1975.

NEW 202 30,000 30,000

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 12-1/4" hole on April 21, 1960 and drilled to 333'. 8-5/8" casing was set at 332' with 279 sacks cement containing 2% calcium chloride. Cemented cement. After waiting on cement, tested casing with 400 psi for 30 minutes which held with no indication of pressure drop. Reduced hole to 7-7/8" at 333' and resumed drilling operations.

HISTORY OF OIL OR GAS WELL

U. S. GOVERNMENT PRINTING OFFICE

FROM	TO	TOTAL FEET	FORMATION
			ROCK, coarse, light gray, in
			If gas well, will flow per 24 hours
			transition; water and sediment.
			The production for the first 24 hours was
			Not to pumping
			DATER
			test and from test to
			tools used
			EMPHOYERS
			Driller
			Driller
			FORMATION RECORD
			TOTAL FEET
			FORMATION