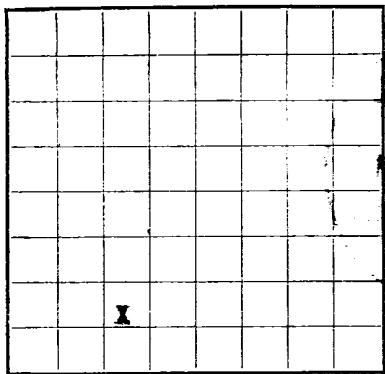
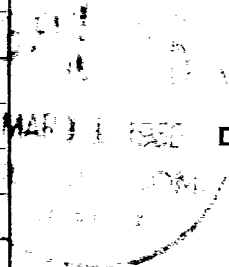


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER SF 077384
LEASE OR PERMIT TO PROSPECT _____



LOCATE WELL CORRECTLY



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company ~~Pan American Petroleum Corporation~~ Address Box 147, Farmington, New Mexico
Lessor or Tract A. A. Galt "J" Field Angels Peak State New Mexico
Well No. 1 Sec. 6 T. 27 N. R. 10 W. Meridian N.M.P.M. County San Juan
Location 790 ft. N. of 2 Line and 1750 E. of 11 Line of Section 6 Elevation 5981 (RDB)
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 DICTATED BY
Signed R. M. Baker, Jr.
Date March 8, 1960 Title Area Engineer

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

Commenced drilling November 1, 1959 Finished drilling November 14, 1959

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

No. 1, from 6325 to 6354 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		Purpose
							From—	To—	
<u>9-5/8"</u>	<u>32.5</u>	<u>8RT</u>	<u>J-55</u>	<u>239'</u>	<u>Guide</u>				<u>Surface</u>
<u>(4-1/2"</u>	<u>11.6</u>	<u>8RT</u>	<u>J-55</u>	<u>239'</u>	<u>Guide</u>				<u>Oil string)</u>
<u>(4-1/2"</u>	<u>9.5</u>	<u>8RT</u>	<u>J-55</u>	<u>625'</u>	<u>Guide</u>				<u>Oil string)</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>9-5/8"</u>	<u>377'</u>	<u>200 sacks cement</u>	<u>Halliburton</u>	<u>1 plug</u>	
<u>4-1/2"</u>	<u>6500'</u>	<u>750 sacks cement</u>	<u>Halliburton</u>	<u>IV tool</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 _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from 0 feet to 6500 feet, and from _____ feet to _____ feet

DATES

Completed as shut in gas well _____ Put to producing Shut in for pipeline connectio
Angels Peak Dakota Field
The production for the first 24 hours was _____ barrels of fluid of which March 3 % was oil; _____ %
Preliminary test 1250 MCFPD
emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. _____

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

Rock pressure MCF lbs. per sq. in. 1250

(Sundry report will be filed when potential test is taken)

_____, Driller _____, Driller
_____, Driller J. C. Binkley, Driller
E. C. Carey
J. D. Lee

FORMATION RECORD Charles Lockhart

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>800</u>	<u>800</u>	<u>Surface sands & shales.</u>
<u>800</u>	<u>915</u>	<u>115</u>	<u>Ojo Alamo sand.</u>
<u>915</u>	<u>1635</u>	<u>720</u>	<u>Kirtland shales and sands including</u>
			<u>Farmington sand.</u>
<u>1635</u>	<u>1840</u>	<u>205</u>	<u>Fruitland sands, shales and coals.</u>
<u>1840</u>	<u>1895</u>	<u>55</u>	<u>Pictured Cliffs sand.</u>
<u>1895</u>	<u>3370</u>	<u>1475</u>	<u>Lewis shale.</u>
<u>3370</u>	<u>4520</u>	<u>1150</u>	<u>Mesaverde sands & shales.</u>
<u>4520</u>	<u>5375</u>	<u>855</u>	<u>Mancos shale.</u>
<u>5375</u>	<u>6153</u>	<u>778</u>	<u>Gallup sands & shales.</u>
<u>6153</u>	<u>6242</u>	<u>89</u>	<u>Greenhorn sandy shale.</u>
<u>6242</u>	<u>6270</u>	<u>28</u>	<u>Graneros sands & shales.</u>
<u>6270</u>	<u>6322</u>	<u>52</u>	<u>Dakota sands & shales.</u>
<u>6322</u>	<u>6500</u>	<u>178</u>	<u>Dakota pay sand.</u>
			<u>(Tops from B log)</u>

FORMATION

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 reddrilling, 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 "mudcracked," order the well, give location and locality. 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 balling.

Spudded 12-1/4" hole on November 17, 1939 and drilled to 371'. 4-5/8" casing was set at 377'. with 200 sacks cement containing 2% sodium chloride. Cement circulated. After waiting 48 hours, casing and water shut off were tested with 1000 psi with held with no indication of pressure drop. Reduced hole to 7-7/8" at 377' and resumed drilling operations.

Total depth 6500', plug back depth 6461'. 4-1/2" casing was set at 6500' with 2-stage cement tool at 2956'. Cemented first stage with 50 sacks of port cement containing 1-1/2 pounds of gas per sack, followed by 10 sacks neat cement. Tested casing with 3000 psi which held with no indication of pressure drop. Cemented second stage with 250 sacks of 7% gel cement. Tested casing with 3000 psi which held with no indication of pressure drop. Good circulation through out both stages. Drilling resumed at 2058' and released at 2058' on November 17, 1959. Prepared to move completion unit to commence completion operations.

[illegible]

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

1957 1 1 JAN

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