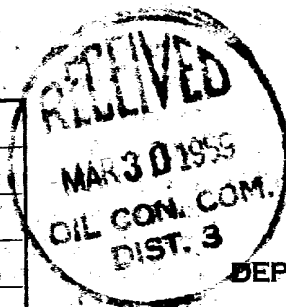
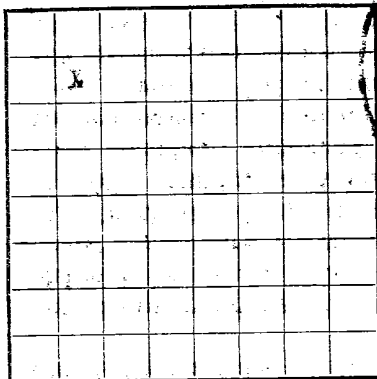


U. S. LAND OFFICE Navajo
SERIAL NUMBER 1-149-14-472
LEASE OR PERMIT TO PROSPECTUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Pan American Petroleum Corporation Address Box 187, Farmington, New Mexico
Lessor or Tract Gallegos Canyon Unit Field Undesignated State New Mexico
Well No. 64 Sec. 26 T. 28N R. 13W Meridian 10N 10E County San Juan
Location 990 ft. N of 1 Line and 990 ft. E of 1 Line of Section 26 Elevation 6055 (GL)
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
R. M. Bauer, Jr.
Signed

Date March 25, 1959 Title Field Engineer

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

Commenced drilling November 13, 1958 Finished drilling December 5, 1958

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5648 to 5730 No. 4, from _____ to _____
No. 2, from 6306 to 6384 (G) 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>333</u>	<u>8 RT</u>	<u>National</u>	<u>491</u>	<u>Guide</u>				<u>Surface</u>
<u>7"</u>	<u>20</u>	<u>8 RT</u>	<u>National</u>	<u>6471</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>502</u>	<u>300 sacks cement</u>	<u>Halliburton No. 2 plug</u>		
<u>7"</u>	<u>6433</u>	<u>325 sacks cement</u>	<u>Halliburton No. 2 plug</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 _____ feet to 6440 feet, and from _____ feet to _____ feet

DATES

Well initially completed as shut in gas well First new oil to tanks (Callup)
Undesignated Dakota and pumping oil well Put to producing _____, 1959
Undesignated Callup March 20 _____ barrels of fluid of which 99.8 % was oil; _____ %
emulsion; _____ % water; and _____ % sediment. 70 Gravity, °Bé. 99.8

If gas well, cu. ft. per 24 hours 2 Gallons gasoline per 1,000 cu. ft. of gas 41.0° APIRock pressure, lbs. per sq. in. 2,971.00Potential Dakota 971 1929 undesignated pressure Dakota.

_____, Driller _____, Driller
Bart Jenkins, Driller C. J. Causy, Driller
C. Malone H. T. Adams

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>573</u>	<u>573</u>	<u>Surface sands & shales.</u>
<u>573</u>	<u>1678</u>	<u>1105</u>	<u>Kirtland-Fruitland shales and sands, including Farmington sands.</u>
<u>1678</u>	<u>1841</u>	<u>163</u>	<u>Pictured Cliffs sand & shale.</u>
<u>1841</u>	<u>3238</u>	<u>1397</u>	<u>Lewis shales and sands.</u>
<u>3238</u>	<u>4150</u>	<u>798</u>	<u>Menefee shales and sands.</u>
<u>4150</u>	<u>4415</u>	<u>265</u>	<u>oint lookout sand & shale.</u>
<u>4415</u>	<u>5313</u>	<u>898</u>	<u>encos shale.</u>
<u>5313</u>	<u>6148</u>	<u>835</u>	<u>Callup sand and shale.</u>
<u>6148</u>	<u>6210</u>	<u>62</u>	<u>Greenhorn shale.</u>
<u>6210</u>	<u>6302</u>	<u>92</u>	<u>Graneros shale.</u>
<u>6302</u>	<u>6440</u>	<u>138</u>	<u>Dakota sand.</u>
			<u>(Tops are from 1 log)</u>

NEW 240 ROKOZOO

7" casing was set at 6433' with 250 sacks of bit cement with 2 pounds tar plug per sack, followed by 75 sacks neat cement. Tested casing with 3000 pounds pressure for thirty minutes, which held with no drop in pressure. Top cement 150' by temperature survey. Released rotary rig.

Calles Canyon Well No. 47 was spudded on November 13, 1958, and on November 17, 1958, 9-5/8" casing was landed at 502 feet with 300 sacks cement. After waiting on cement, casing and water shut-off were tested with 500 pounds pressure for thirty minutes, which held with no drop in pressure.

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 "struck off", state 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.

HISTORY OF OIL OR GAS WELL

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[illegible]

HISTORY OF OIL OR GAS WELL (Page 2)

ending 1929 psig, indicating packer holding ok.

Potential Dakota 2971 MCFFD thru 3/4" choke. Gallup starting 3 day shut in casing pressure 645 PSIG and ending 655 psig indicating packer holding okay.