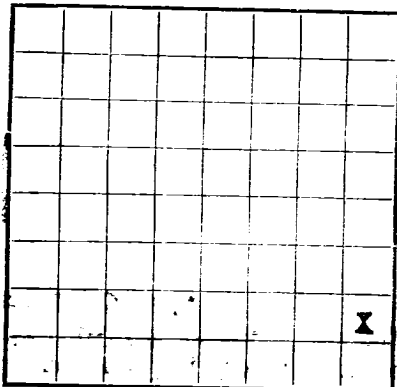
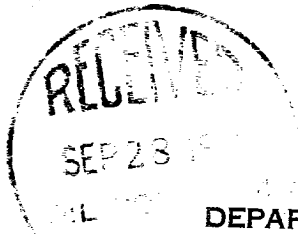




LOCATE WELL CORRECTLY

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER SF-078807-A
LEASE OR PERMIT TO PROSPECT
Callegos Canyon UnitUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Pan American Petroleum Corp. Address Box 480, Farmington, New Mexico
Lessor or Tract Callegos Canyon Unit Field Totah Gallup State New Mexico
Well No. 185 Sec. 12 T. 23N R. 13W Meridian N.M.P.M. County San Juan
Location 816 ft. N. of S Line and 600 ft. W. of E Line of Section 12 Elevation 5688 FDB
(Denote 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 E. M. Bauer, Jr.Date September 22, 1961Title Senior Petroleum Engineer

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

Commenced drilling August 22, 19 61 Finished drilling September 1, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5519 to 5525 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>8-5/8"</u>	<u>22.7#</u>	<u>8J</u>	<u>Arco</u>	<u>200'</u>	<u>Outside</u>				<u>Surface</u>
<u>4-1/2"</u>	<u>9.5#</u>	<u>8RT</u>	<u>CPAI</u>	<u>5650'</u>	<u>Outside</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>8-5/8"</u>	<u>211'</u>	<u>150</u>	<u>Halliburton</u>	<u>1 plug</u>	
<u>4-1/2"</u>	<u>5636'</u>	<u>350</u>	<u>Halliburton</u>	<u>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 0 feet to 5642' feet, and from _____ feet to _____ feet

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

Completed as Totah Gallup Field development well 1st new oilSeptember 15, 1961 Put to producing September 14, 1961The production for the first 24 hours was 98 barrels of fluid of which 97.6% was oil; _____ %
emulsion; _____ % water; and 2.4% sediment. Gravity, °Bé. 39.7° API

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Jim Speaker, Driller Sam Kinney, DrillerJim Babcock, Driller Earl Babcock, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>1460</u>	<u>1460</u>	<u>Surface sands & shales.</u>
<u>1460</u>	<u>1630</u>	<u>170</u>	<u>Pictured Cliffs sands & shales.</u>
<u>1630</u>	<u>2415</u>	<u>785</u>	<u>Lewis shale</u>
<u>2415</u>	<u>4225</u>	<u>1810</u>	<u>Mesaverde sands & shales</u>
<u>4225</u>	<u>5148</u>	<u>923</u>	<u>San Juan shale.</u>
<u>5148</u>	<u>5515</u>	<u>367</u>	<u>Gallup sands & shales</u>
<u>5515</u>	<u>5642</u>	<u>127</u>	<u>Gallup pay sands & shales</u>
			(Tops from S Log)

