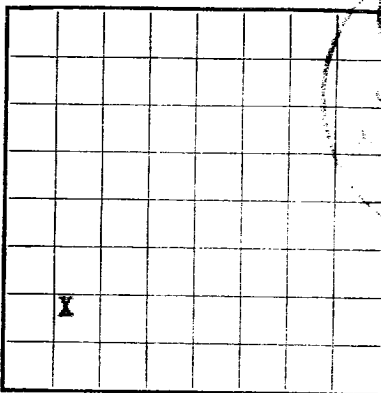




LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Pan American Petroleum Corporation Address Box 480, Farmington, New Mexico
Lessor or Tract Gallegos Canyon Unit Field Basin Dakota State New Mexico
Well No. 90 Sec. 35 T 28N R. 13W Meridian N.M.P.M. County San Juan
Location 1190 ft. N. of S. Line and 790 ft. E. of W. Line of Section 35 Elevation 6079
(Denote bear 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. Bauer, Jr.

Date June 9, 1961 Title Senior Petroleum Engineer

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

Commenced drilling May 11, 19 61 Finished drilling May 24, 19 61

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 6280 to 6295 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>20#</u>	<u>5VT</u>	<u>API</u>	<u>327</u>	<u>Guide</u>				<u>Surface</u>
<u>4-1/2"</u>	<u>9.5#</u>	<u>8RT</u>	<u>API</u>	<u>6460</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>8-5/8"</u>	<u>337</u>	<u>200 sacks of cement</u>	<u>Halliburton 2 Plug</u>		
<u>4-1/2"</u>	<u>6450</u>	<u>375 sacks of cement</u>	<u>Halliburton 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 6450 feet, and from _____ feet to _____ feet

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

Completed as Basin Dakota Field Well DATES Completed as shut in well_____ June 5, 19 61 Put to producing _____ June 5 19 61

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

If gas well, MCF per 24 hours 2561 Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. 2025-SITP

EMPLOYEES

_____ G. K. Reid _____, Driller _____ L. B. Wells _____, Driller_____ Lester Baugh _____, Driller _____ H. J. McGeath _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>1581</u>	<u>1581</u>	<u>Surface sands and shales including Farmington and Fruitland zones.</u>
<u>1581</u>	<u>1750</u>	<u>169</u>	<u>Pictured Cliffs sands, shales, and coals.</u>
<u>1750</u>	<u>2498</u>	<u>748</u>	<u>Lewis shale.</u>
<u>2498</u>	<u>4412</u>	<u>1914</u>	<u>Mesaverde sands, shales, and coals.</u>
<u>4412</u>	<u>5256</u>	<u>844</u>	<u>Mancos shale.</u>
<u>5256</u>	<u>5745</u>	<u>489</u>	<u>Gallup sands and shales.</u>
<u>5745</u>	<u>6090</u>	<u>345</u>	<u>Sanastee sands and shales.</u>
<u>6090</u>	<u>6204</u>	<u>114</u>	<u>Greenhorn sands and shales.</u>
<u>6204</u>	<u>6288</u>	<u>84</u>	<u>Graneros and upper Dakota sands and shales.</u>
<u>6288</u>	<u>6450</u>	<u>162</u>	<u>Dakota pay sands and shales.</u>

(Tops from "E" Log)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Location _____ ft. S. of _____ N. E. of _____ Line of _____ Elevation _____

Well No. _____ Sec. _____ T. _____ R. _____ Meridian _____ County _____ State _____

Person or Firm _____ Field Notes _____ Address _____

The information given herein is a complete and correct record of the law and all work done thereon

..... 617100

6261-6263, 6266-6300 with 6 shoes per foot. Fractured these perforations with 20,000 gallons water containing 34 pounds of-101 per 1000 gallons, 1 percent OACI 2, 20,000 pounds sand. Average breakdown 3000-1800, average treating 2700. Average injection rate 36 barrels per minute. 24 tubing landed at 6300'. Completed as shut in Basin Dakota field well June 5, 1961. Potential test 2761 recorded. This page is for the correction of the well as above data.

total length of 50' ran electric and some loose 1-1/2" casing as shown. with 275 sacks 6 percent gel cement containing 1-1/2 pounds of fine per sack, followed by 100 sacks neat cement. After waiting on cement, tested 4-1/2" casing with 3000 psi, which held with no indication of pressure drop. Preparing for completion operations.

drop. Reduced hole to 7-7/8" at 338' and resumed drilling operations.

Sealed 12 1/4" hole May 11, 1961. 8-5/8" casing was set at 336' and cemented with 200 sacks containing two percent Calcium Chloride circulated. After waiting on cement to set, tested water shut off with 600 pounds for 30 minutes with no 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 "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 boiling.

HISTORY OF OIL OR GAS WELL

U. S. GOVERNMENT PRINTING OFFICE 16-43054-2

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INFORMATION RECORD—Continued