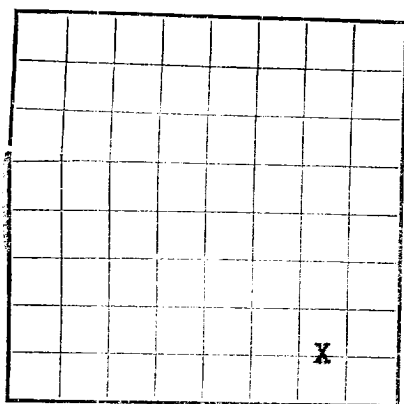
U. S. LAND OFFICE Santa FeSERIAL NUMBER SF-078780

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 480, Farmington, New Mexico
Lessor or Tract Callegos Canyon Unit Dakota Field Basin Dakota State New Mexico
Well No. 138 Sec. 7 T. 28-N R. 11-W Meridian N.M.P.M. County San Juan
Location 1090 ft. N. of 5 Line and 990 ft. E. of 1 Line of Section 7 Elevation 5558
(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. Fred L. Nabors, District Engineer
Signed

Date October 28, 1963Title ORIGINAL SIGNED BY
F. H. HOLLINGSWORTH

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

Commenced drilling August 26, 1963 Finished drilling September 4, 1963

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5997 to 6003 (G) No. 4, from _____ to _____
No. 2, from 6015 to 6019 (G) No. 5, from _____ to _____
No. 3, from 6080 to 6096 (G) 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>24</u>	<u>8</u>	<u>H-40</u>	<u>549</u>	<u>Guide</u>				<u>Surface</u>
<u>4-1/2"</u>	<u>16.87</u>	<u>8</u>	<u>J-55</u>	<u>620</u>	<u>Cable</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>3.58</u>	<u>225</u>	<u>Dowell 1 Plug</u>		
<u>4-1/2"</u>	<u>6.187</u>	<u>900</u>	<u>Halliburton 1 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 6187 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Completed as Shut In Basin Dakota well September 27, 1963 Completed September 27, 1963
Put to producing September 27, 1963

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

If gas well, 0 cu. ft. per 24 hours 4474 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 1100 (GFC)

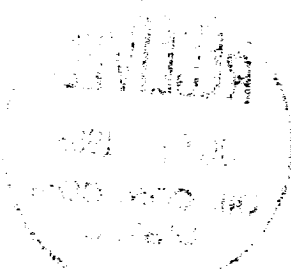
EMPLOYEES

G. M. Denton, Driller Richard Slaughter, Driller
A. G. Miller, Driller J. Weisgerber, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>1503</u>	<u>1503</u>	<u>Surface SN & SH</u>
<u>1503</u>	<u>1590</u>	<u>87</u>	<u>Pictured Cliffs</u>
<u>1590</u>	<u>3070</u>	<u>1480</u>	<u>Lewis SH</u>
<u>3070</u>	<u>4213</u>	<u>1143</u>	<u>Mesaverde Group</u>
<u>4213</u>	<u>5120</u>	<u>907</u>	<u>Mancos</u>
<u>5120</u>	<u>5474</u>	<u>354</u>	<u>Gallup</u>
<u>5474</u>	<u>5892</u>	<u>418</u>	<u>Mancos</u>
<u>5892</u>	<u>5955</u>	<u>63</u>	<u>Greenhorn</u>
<u>5955</u>	<u>5994</u>	<u>39</u>	<u>Graneros SH</u>
<u>5994</u>	<u>6065</u>	<u>71</u>	<u>Graneros Dakota</u>
<u>6065</u>	<u>6108</u>	<u>43</u>	<u>Main Dakota</u>
<u>6108</u>	<u>6187</u>	<u>79</u>	<u>Lower Dakota</u>

1999, 2002, 2003



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

NEW 2000 80 110 70 100

[illegible]

The information provided above is a complete and correct record of the work and all work done thereon.

Very truly yours,
[Signature]

[Name]
[Title]
[Address]
[City, State, Zip]

ORIGINAL SIGNED BY

NO OR GAS BANDS OR TONES

Q. 1. Find the value of $\sin^{-1}(\sin \frac{5\pi}{6})$.

SUMMER SEASON TRATIONS 41

09052 018A.

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of reworking, 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 "sacked" or left in the well, give its size and location. If the well has been dynamited, give date, 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

U. S. GOVERNMENT PRINTING OFFICE 16-50711-2

[illegible]