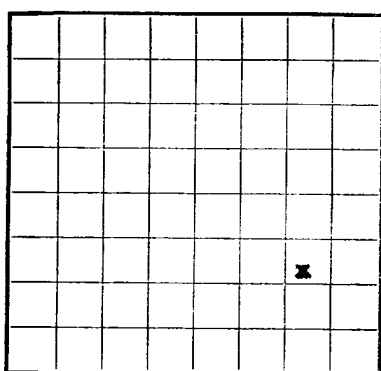


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER SP-077951
LEASE OR PERMIT TO PROSPECT



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 Jack Frost "C" Field Basin Dakota State New Mexico
Well No. 1 Sec. 26 T. 27N R. 10W Meridian N.M.P.M. County San Juan
Location 1450 ft. N. of 8 Line and 925 ft. W. of 8 Line of Section 26 Elevation 6616'
(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.

Signed _____

Date February 13, 1963 Title Petroleum Engineer

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

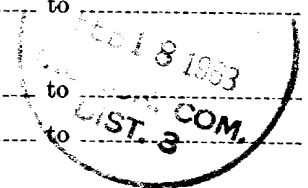
Commenced drilling January 2, 1963 Finished drilling January 18, 1963

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

No. 1, from 6938 to 6948 (G) No. 4, from _____ to _____
No. 2, from 6916 to 6929 (G) No. 5, from _____ to _____
No. 3, from 6822 to 6831 (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>32.70</u>	<u>83</u>	<u>Case</u>	<u>350</u>	<u>Slide</u>				<u>Surface</u>
<u>4-1/2"</u>	<u>18.57</u>	<u>83</u>	<u>J-35</u>	<u>7059'</u>	<u>Slide</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>362'</u>	<u>200</u>	<u>Circulated</u>		
<u>4-1/2"</u>	<u>7021'</u>	<u>900</u>	<u>2 Stage</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 7023 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Completed as shut in gas well February 11, 1963 Put to producing _____, 19____
The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% 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, lbs. per sq. in. 1900 (GFS)

EMPLOYEES

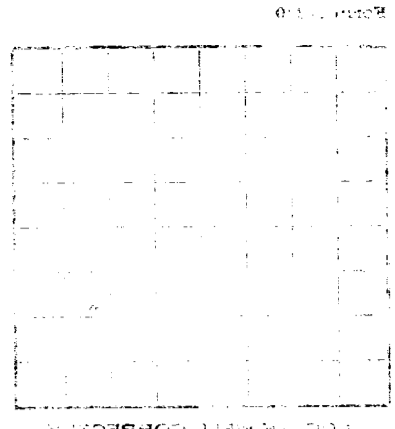
_____, Driller _____, Driller
A. G. Miller, Driller G. Benton, Driller
R. Slaughter, Driller J. R. Weisgerber, Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
<u>0</u>	<u>1410</u>	<u>1410</u>	<u>Surface sand and shale.</u>
<u>1410</u>	<u>1580</u>	<u>170</u>	<u>Ojo Alamo sand.</u>
<u>1580</u>	<u>2362</u>	<u>782</u>	<u>Kirtland-Fruitland sand and shale.</u>
<u>2362</u>	<u>2463</u>	<u>101</u>	<u>Pictured Cliffs sand.</u>
<u>2463</u>	<u>3275</u>	<u>812</u>	<u>Lewis shale.</u>
<u>3275</u>	<u>5032</u>	<u>1757</u>	<u>Mesa Verde sand and shale.</u>
<u>5032</u>	<u>5890</u>	<u>858</u>	<u>Mancos shale.</u>
<u>5890</u>	<u>6464</u>	<u>574</u>	<u>Gallup sand and shale.</u>
<u>6464</u>	<u>6732</u>	<u>268</u>	<u>Mancos shale.</u>
<u>6732</u>	<u>6792</u>	<u>60</u>	<u>Greenhorn shale.</u>
<u>6792</u>	<u>6816</u>	<u>24</u>	<u>Graneros shale.</u>
<u>6816</u>	<u>6831</u>	<u>15</u>	<u>Dakota pay sand.</u>

LOG OF OIL OR GAS WELL

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



The information given herewith is a complete and correct record of the well and all work done thereon as far as can be determined from all available records.
Signed _____
Date _____

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

OIL OR GAS SANDS OR ZONES

No. 1 from _____ to _____
No. 2 from _____ to _____
No. 3 from _____ to _____
No. 4 from _____ to _____

IMPORTANT WATER SANDS

No. 1 from _____ to _____
No. 2 from _____ to _____

CASING RECORD

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 the results. If there were any changes made in the casing, state fully, and if any casing was "extracted" or left in the well, give date and location. If there 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 balling.

HISTORY OF OIL OR GAS WELL

MUDDING AND CEMENTING RECORD

Depth	Weight of cement	Method used	Mud grade	Amount of sand used

PLUGS AND ADAPTERS

Having plug—Material _____
Adapters—Material _____

SHOOTING RECORD

Shot	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Tools used from _____ feet to _____ feet and from _____ feet to _____ feet.

DATES

The production for the first 24 hours was _____ barrels of fluid of which _____ was oil. The production _____ barrels of fluid of which _____ was oil.

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
6831	6912	81	Granitic sand and shale.
6912	6948	36	Granitic sand.
6948	7023	75	Granitic sand and shale.
7023	7080	57	Grainy sand and shale.
7080	7120	40	Massive shale.
7120	7180	60	Massive sand and shale.
7180	7250	70	Massive shale.
7250	7300	50	Massive sand and shale.
7300	7350	50	Massive shale.
7350	7400	50	Massive sand and shale.
7400	7450	50	Massive shale.
7450	7500	50	Massive sand and shale.
7500	7550	50	Massive shale.
7550	7600	50	Massive sand and shale.
7600	7650	50	Massive shale.
7650	7700	50	Massive sand and shale.
7700	7750	50	Massive shale.
7750	7800	50	Massive sand and shale.
7800	7850	50	Massive shale.
7850	7900	50	Massive sand and shale.
7900	7950	50	Massive shale.
7950	8000	50	Massive sand and shale.
8000	8050	50	Massive shale.
8050	8100	50	Massive sand and shale.
8100	8150	50	Massive shale.
8150	8200	50	Massive sand and shale.
8200	8250	50	Massive shale.
8250	8300	50	Massive sand and shale.
8300	8350	50	Massive shale.
8350	8400	50	Massive sand and shale.
8400	8450	50	Massive shale.
8450	8500	50	Massive sand and shale.
8500	8550	50	Massive shale.
8550	8600	50	Massive sand and shale.
8600	8650	50	Massive shale.
8650	8700	50	Massive sand and shale.
8700	8750	50	Massive shale.
8750	8800	50	Massive sand and shale.
8800	8850	50	Massive shale.
8850	8900	50	Massive sand and shale.
8900	8950	50	Massive shale.
8950	9000	50	Massive sand and shale.
9000	9050	50	Massive shale.
9050	9100	50	Massive sand and shale.
9100	9150	50	Massive shale.
9150	9200	50	Massive sand and shale.
9200	9250	50	Massive shale.
9250	9300	50	Massive sand and shale.
9300	9350	50	Massive shale.
9350	9400	50	Massive sand and shale.
9400	9450	50	Massive shale.
9450	9500	50	Massive sand and shale.
9500	9550	50	Massive shale.
9550	9600	50	Massive sand and shale.
9600	9650	50	Massive shale.
9650	9700	50	Massive sand and shale.
9700	9750	50	Massive shale.
9750	9800	50	Massive sand and shale.
9800	9850	50	Massive shale.
9850	9900	50	Massive sand and shale.
9900	9950	50	Massive shale.
9950	10000	50	Massive sand and shale.

FORMATION RECORD—Continued

NO. 100-10000