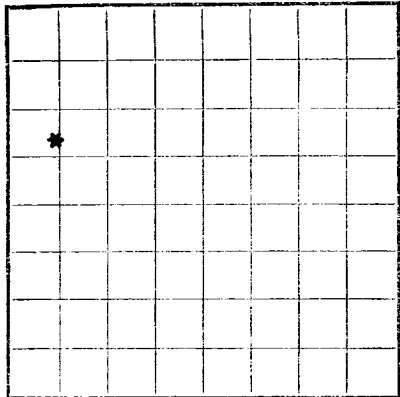


Form 9-330



LOCATE WELL CORRECTLY

RECEIVED
JUL 1 1963
U. S. GEOLOGICAL SURVEY
ALBUQUERQUE, NEW MEXICO

U. S. LAND OFFICE
SERIAL NUMBER **NM 05646**
LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Pan American Petroleum Corporation Address Box 68 - Hobbs, New Mexico
Lessor or Tract Plains Unit Field Lusk Strawn & Morrow State New Mexico
Well No. 2 Sec. 28 T. 19-S R. 32-E Meridian NMPM County Lea
Location 1980 ft. S. of N. Line and 660 ft. W. of E. Line of Sec. 28 Elevation _____
(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.
Original Signed by: V. E. STALEY
Signed _____

Date June 25, 1963 Title Area Superintendent
The summary on this page is for the condition of the well at above date.

Commenced drilling 3-19-63, 19____ Finished drilling 5-28-63, 19____

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 11,432 to 11,466 No. 4, from _____ to _____
No. 2, from 12,403 to 12,530(0) 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>13-3/8</u>	<u>48</u>	<u>8</u>	<u>H-40</u>	<u>750</u>	<u>Guide</u>				<u>Surface</u>
<u>9-5/8</u>	<u>40</u>	<u>8</u>	<u>J-55</u>	<u>4618</u>	<u>"</u>				<u>Int.</u>
<u>7"</u>	<u>23-26</u>	<u>8</u>	<u>H-8, 3-95</u>	<u>12837</u>	<u>"</u>		<u>11,432</u>	<u>12,530</u>	<u>Oil</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>13-3/8</u>	<u>773</u>	<u>750</u>	<u>Pump Plug</u>		
<u>9-5/8</u>	<u>4697</u>	<u>4250</u>	<u>Pump Plug</u>		
<u>7"</u>	<u>12,765</u>	<u>750</u>	<u>Pump 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
<u>Morrow</u>	<u>1000 gallons acid</u>					
<u>Strawn</u>	<u>1000 gallons acid</u>					

TOOLS USED

Rotary tools were used from 0 feet to 12,996 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Completed 5-23, 1963 Put to producing 5-28, 1963
Strawn

The production for the first 24 hours was 398 barrels of fluid of which 100% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. 47°

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

R. E. Dillow, Driller Sharp Drlg. Co.
Joe Armstrong, Driller Kenneth Moore, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>546</u>	<u>546</u>	<u>Surface</u>
<u>546</u>	<u>665</u>	<u>119</u>	<u>Red Bed, Anhy</u>
<u>665</u>	<u>1187</u>	<u>522</u>	<u>Anhy</u>
<u>1187</u>	<u>1550</u>	<u>363</u>	<u>Anhy, Salt</u>
<u>1550</u>	<u>1569</u>	<u>19</u>	<u>Salt</u>
<u>1569</u>	<u>2552</u>	<u>983</u>	<u>Anhy, Salt</u>
<u>2552</u>	<u>4597</u>	<u>2045</u>	<u>Anhy</u>
<u>4597</u>	<u>4750</u>	<u>161</u>	<u>Lime</u>
<u>4758</u>	<u>5347</u>	<u>589</u>	<u>Lime, Sand</u>
<u>5347</u>	<u>9192</u>	<u>3845</u>	<u>Lime</u>
<u>9192</u>	<u>10226</u>	<u>1034</u>	<u>Lime, Shale</u>
<u>10226</u>	<u>10901</u>	<u>675</u>	<u>Lime</u>
<u>10901</u>	<u>11340</u>	<u>561</u>	<u>Lime, Shale</u>
<u>11340</u>	<u>11367</u>	<u>27</u>	<u>Lime</u>
<u>11367</u>	<u>11389</u>	<u>22</u>	<u>Lime, Chert</u>
<u>11389</u>	<u>11584</u>	<u>195</u>	<u>Lime</u>
<u>11584</u>	<u>12495</u>	<u>911</u>	<u>Lime, Shale</u>
<u>12,495</u>	<u>12,576</u>	<u>81</u>	<u>Lime, Shale, Sand</u>
<u>12,576</u>	<u>12,996</u>	<u>420</u>	<u>Lime, Shale</u>

Surface
Red Bed, Anhy
Anhy
Anhy, Salt
Salt
Anhy, Salt
Anhy
Lime
Lime, Sand
Lime
Lime, Shale
Lime
Lime, Shale
Lime
Lime, Chert
Lime
Lime, Shale
Lime, Shale, Sand
Lime, Shale

Tops
Anhy - 830
Salt - 920
Delaware Sand - 4655
Bone Springs - 7210
1st Bone Springs Sand - 8393
2nd Bone Springs sand - 9020
3rd Bone Springs Sand - 9973
Wolfcamp - 10385
Strawn - 11307
Morrow - 12026

HISTORY OF OIL OR GAS WELL

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 bailing.

DST No. 1, Strawn, Strawn, 11,362-490, 1000' Nitrogen blanket to 3 hrs 55 min. 1/2" BHCH. GTS 8 min. MIS 35 min. OTS 43 min. Flw to pits to clean up for 43 min, SI for 20 min to change orifice plate. SI surface press 770 PSI, Flw 11 BO in 10 min 1/2" surf ch, Flw surfacepress 625, Flw 14 bo next 1-1/2 hrs on 1/4" ch Flw surface press 740-900 PSI, Flw 25 BO next 30 min on 1/2" ch Flw surface press 900-575 PSI, reversed out 26 BO, GOR 1663, COR 46 degrees API, BHPSI initial 60 min 5567, final in 60 min 4778. BHPF 1351-2387 hydrostatic 6428.

DST No. 2 Morrow 12,409a12,545, used 1500 ft nitrogen blanket to 2 hrs 21 min 3/8" BHCH 18/64, TEH strong blow air 1 min OTS 16 min, rec 5.50 B dist. x 3,250 MCFFD Gas 1 hr. rec 390 ft dist in DP 1 hr 1 BHPSI 4978 1 BHPF 2237, FBHPE 3375 1-1/2 hr, FBHPSI 4913, initial HYD 6609, F MID 6566, surf PE 2275, Gravity 60.6 degrees API