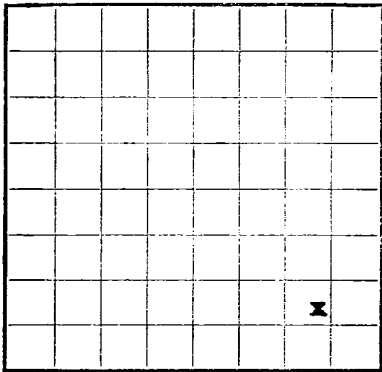
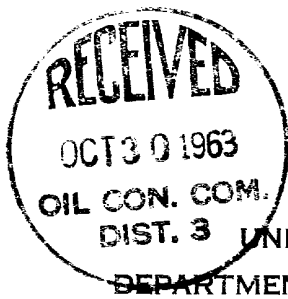




LOCATE WELL CORRECTLY

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.U. S. LAND OFFICE Santa FeSERIAL NUMBER SF-078780

LEASE OR PERMIT TO PROSPECT

LOG OF OIL OR GAS WELL

Company Pan American Petroleum Corporation Address Box 480, Farmington, New MexicoLessor or Tract Gallegos Canyon Unit - Dakota Field Basin Dakota State New MexicoWell No. 139 Sec. 18 T. 28N R. 11W Meridian N.M.P.M. County San JuanLocation 1150 ft. N. of S. Line and 1150 ft. W. of E. Line of Section 18 Elevation 5529
(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

Fred L. Nabors District Engineer
ORIGINAL SIGNED BY
F. H. HOLLINGSWORTHDate October 28, 1963

Title

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

Commenced drilling September 7, 1963 Finished drilling September 23, 1963

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5943 to 5947 (G) No. 4, from _____ to _____No. 2, from 5965 to 5971 (G) No. 5, from _____ to _____No. 3, from 6025 to 6035 (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>26.7</u>	<u>8RT</u>	<u>J-55</u>	<u>248</u>	<u>Guide</u>				<u>Surface</u>
<u>4-1/2"</u>	<u>10.5#</u>	<u>8RT</u>	<u>J-55</u>	<u>6374</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>358</u>	<u>225</u>	<u>Dowell I Plug</u>		
<u>4-1/2"</u>	<u>6139</u>	<u>400</u>	<u>BJ 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 _____ feet to _____ 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 WellPut to producing _____ Completed _____, 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, md ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. 5369

EMPLOYEES

_____, Driller _____, Driller

A. G. MillerS. M. Benton

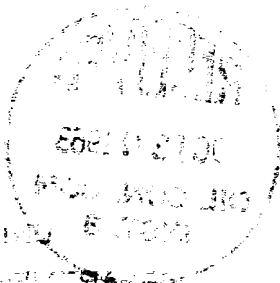
_____, Driller _____, Driller

Richard SlaughterJ. Weisgerber

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>1555</u>	<u>1555</u>	<u>Surface sand and shale</u>
<u>1555</u>	<u>1623</u>	<u>68</u>	<u>(Pictured Cliffs (Lower Portion)</u>
<u>1623</u>	<u>3005</u>	<u>1382</u>	<u>(Intermediate casing seat @ 1555</u>
<u>3005</u>	<u>4168</u>	<u>1163</u>	<u>Lewis shale</u>
<u>4168</u>	<u>5074</u>	<u>906</u>	<u>Mesaverde Group</u>
<u>5074</u>	<u>5448</u>	<u>374</u>	<u>Mancos</u>
<u>5448</u>	<u>5852</u>	<u>404</u>	<u>Gallup</u>
<u>5852</u>	<u>5905</u>	<u>53</u>	<u>Mancos</u>
<u>5905</u>	<u>5941</u>	<u>36</u>	<u>Greenhorn</u>
<u>5941</u>	<u>6016</u>	<u>75</u>	<u>Graneros shale</u>
<u>6016</u>	<u>6054</u>	<u>38</u>	<u>Graneros Dakota</u>
<u>6054</u>	<u>6145</u>	<u>91</u>	<u>Main Dakota</u>
			<u>Lower Dakota</u>

(OVER)

[illegible]

NEW GAS WEST

Community Water Management District of Lake Superior
Lesson or Time
Well No. 1234567890
Location (State, County, Township, Range, Section, and 1/4 of the Line of)
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
ORIGINAL SIGNED BY
K. H. LINGGREN

The summary on this page is for the condition of this case only and does not constitute an admission of liability.

NO. 100-100000-100000

No. 6 from _____	No. 6 from _____
No. 5 from _____	No. 5 from _____
No. 4 from _____	No. 4 from _____

(Details per pg 9)

3CHAS 3ETAW TNAFHC.MH

[illegible]

CRASHING 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 its results. If there were any changes made in the casing, state fully, and if any casing was added, packed, 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.

HISTORY OF OIL OR GAS WELL

[illegible]

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Dakota Formation Dakota County San Juan
Initial X Annual _____ Special _____ Date of Test 10-18-63
Company SAN AMERICAN PETROLEUM CORP. Lease Gallageo Canyon Unit Well No. 139
Unit P Sec. 10 Twp. 20N Rge. 1E Purchaser _____
Casing 4-1/2 Wt. 10.5 I.D. 4.052 Set at 6139 Perf. 3943-71 To 6025-35
Tubing 2-3/8 Wt. 4.7 I.D. 1.993 Set at 6051 Perf. _____ To _____
Gas Pay: From 3943 To 3971 L 3937 xG .700 est. -GL 4170 Bar.Press. 12
Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 10-11-63 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Pressure) (Choke) (Restrictor) Type Taps Flange

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.	7 days					2006		2009		
1.	2"	.750	432			360		1022	50° est.	3 hr.
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12,3630		444	1.000	.9236	1.040	5630
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-s})
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 2021 P_c 4,004,441

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.						1,040,136	1,013,223		
2.									
3.									
4.									
5.									

Absolute Potential: 7060 MCFPD; n .75
COMPANY SAN AMERICAN PETROLEUM CORPORATION
ADDRESS Box 480, Farmington, New Mexico
AGENT and TITLE P. L. Sabers, District Engineer
WITNESSED By [Signature]
COMPANY P. W. Poell

REMARKS



INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.

P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia

P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia

P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia

P_f = Meter pressure, psia.

h_w = Differential meter pressure, inches water.

F_g = Gravity correction factor.

F_t = Flowing temperature correction factor.

F_{pv} = Supercompressability factor.

n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .