

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Tasapito-Pictored Cliffs Formation Pictored Cliffs County Pio Arriba
Initial I Annual _____ Special _____ Date of Test 8-19-58
Company PAN AMERICAN PETROLEUM CO. P. Lease Fred Phillips "D" Well No. 1
Unit 1 Sec. 10 Twp. 23-N Rge. 3-W Purchaser Pacific Northwest Pipeline Corp.
Casing 2-1/2 Wt. 14 I.D. 5.082 Set at 3816 Perf. 3737 To 3767
Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 3733 Perf. 3727 To 3733
Gas Pay: From 3737 To 3767 L 3732 xG 0.69(est) GL 2589 Bar.Press. 12
Producing Thru: Casing _____ Tubing I Type Well Gas - Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 8-7-58 Packer None Reservoir Temp. 115° F

OBSERVED DATA

Tested Through (Gauger) (Choke) (Gauger) Type Taps _____

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Gauger) (Line) Size	(Choke) (Outside) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	<u>Shut in 12 days</u>					<u>1050</u>		<u>1050</u>		
1.	<u>2-inch</u>	<u>3/4-inch</u>	<u>354</u>		<u>60 (est)</u>	<u>412</u>	<u>60 (est)</u>	<u>416</u>	<u>60 (est)</u>	<u>1</u>
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	<u>1.365</u>		<u>356</u>	<u>1.000</u>	<u>0.9125</u>	<u>1.045</u>	<u>4410</u>
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 1062 P_c² 1,127,844

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.						<u>770,844</u>	<u>956,960</u>		
2.									
3.									
4.									
5.									

Absolute Potential: 11,731 MCFPD; n 0.65COMPANY PAN AMERICAN PETROLEUM CORPORATIONADDRESS Box 487, Farmington, New MexicoAGENT and TITLE R. M. Bauer, Jr., Field Engineer

WITNESSED _____

COMPANY _____

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} = Supercompressibility 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 .

OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received		3
DISTRIBUTION		
NO.	TO	
1	Mr. Tolson	
2	Mr. Clegg	
3	Mr. Glavin	
4	Mr. Ladd	
5	Mr. Nichols	
6	Mr. Rosen	
7	Mr. Tracy	
8	Mr. Carson	
9	Mr. Egan	
10	Mr. Gurnea	
11	Mr. Hendon	
12	Mr. Pennington	
13	Mr. Quinn	
14	Mr. Nease	
15	Mr. Gandy	
16	Mr. Egan	
17	Mr. Gurnea	
18	Mr. Hendon	
19	Mr. Pennington	
20	Mr. Quinn	
21	Mr. Nease	
22	Mr. Gandy	
23	Mr. Egan	
24	Mr. Gurnea	
25	Mr. Hendon	
26	Mr. Pennington	
27	Mr. Quinn	
28	Mr. Nease	
29	Mr. Gandy	
30	Mr. Egan	
31	Mr. Gurnea	
32	Mr. Hendon	
33	Mr. Pennington	
34	Mr. Quinn	
35	Mr. Nease	
36	Mr. Gandy	
37	Mr. Egan	
38	Mr. Gurnea	
39	Mr. Hendon	
40	Mr. Pennington	
41	Mr. Quinn	
42	Mr. Nease	
43	Mr. Gandy	
44	Mr. Egan	
45	Mr. Gurnea	
46	Mr. Hendon	
47	Mr. Pennington	
48	Mr. Quinn	
49	Mr. Nease	
50	Mr. Gandy	
51	Mr. Egan	
52	Mr. Gurnea	
53	Mr. Hendon	
54	Mr. Pennington	
55	Mr. Quinn	
56	Mr. Nease	
57	Mr. Gandy	
58	Mr. Egan	
59	Mr. Gurnea	
60	Mr. Hendon	
61	Mr. Pennington	
62	Mr. Quinn	
63	Mr. Nease	
64	Mr. Gandy	
65	Mr. Egan	
66	Mr. Gurnea	
67	Mr. Hendon	
68	Mr. Pennington	
69	Mr. Quinn	
70	Mr. Nease	
71	Mr. Gandy	
72	Mr. Egan	
73	Mr. Gurnea	
74	Mr. Hendon	
75	Mr. Pennington	
76	Mr. Quinn	
77	Mr. Nease	
78	Mr. Gandy	
79	Mr. Egan	
80	Mr. Gurnea	
81	Mr. Hendon	
82	Mr. Pennington	
83	Mr. Quinn	
84	Mr. Nease	
85	Mr. Gandy	
86	Mr. Egan	
87	Mr. Gurnea	
88	Mr. Hendon	
89	Mr. Pennington	
90	Mr. Quinn	
91	Mr. Nease	
92	Mr. Gandy	
93	Mr. Egan	
94	Mr. Gurnea	
95	Mr. Hendon	
96	Mr. Pennington	
97	Mr. Quinn	
98	Mr. Nease	
99	Mr. Gandy	
100	Mr. Egan	
101	Mr. Gurnea	
102	Mr. Hendon	
103	Mr. Pennington	
104	Mr. Quinn	
105	Mr. Nease	
106	Mr. Gandy	
107	Mr. Egan	
108	Mr. Gurnea	
109	Mr. Hendon	
110	Mr. Pennington	
111	Mr. Quinn	
112	Mr. Nease	
113	Mr. Gandy	
114	Mr. Egan	
115	Mr. Gurnea	
116	Mr. Hendon	
117	Mr. Pennington	
118	Mr. Quinn	
119	Mr. Nease	
120	Mr. Gandy	
121	Mr. Egan	
122	Mr. Gurnea	
123	Mr. Hendon	
124	Mr. Pennington	
125	Mr. Quinn	
126	Mr. Nease	
127	Mr. Gandy	
128	Mr. Egan	
129	Mr. Gurnea	
130	Mr. Hendon	
131	Mr. Pennington	