

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5-13-1978																																																																																
Company Palmer Oil and Gas Company		Connection Northwest Pipeline																																																																																
Pool Los Pinos		Formation Fruitland																																																																																
Completion Date 4-29-1978		Total Depth 3630	Plug Back TD 3585																																																																															
Elevation 6539 G.L.		Farm or Lease Name Federal																																																																																
Core Size 5.500	WT. 14#	Set At 5.012	Perforations: From 3106 To 3264																																																																															
Fig. Size 1.315	WT. 1.7	Set At 1.049	Perforations: From Open To Ended																																																																															
Type Well - Single - Openhead - G.G. or G.O. Multiple		Packer Set At 3300	Well No. 3																																																																															
Gas - Gas Dual		Baro. Press. - P _a 12 psia	Unit G 10 31N 7W																																																																															
Producing Thru Tubing L		Reservoir Temp. °F 0	Mean Annual Temp. °F 12																																																																															
Prover Meter Run		Taps																																																																																
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="5">FLOW DATA</th> <th colspan="2">TUBING DATA</th> <th colspan="2">CASING DATA</th> <th rowspan="2">Duration of Flow</th> </tr> <tr> <th>NO.</th> <th>Prover Line Size</th> <th>X</th> <th>Orifice Size</th> <th>Press. p.s.i.g.</th> <th>Diff. hw</th> <th>Temp. °F</th> <th>Press. p.s.i.g.</th> <th>Temp. °F</th> </tr> <tr> <td>SI</td> <td>14 days</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1511</td> <td>60°</td> <td></td> </tr> <tr> <td>1.</td> <td>2 inch</td> <td>.750</td> <td>38</td> <td></td> <td></td> <td></td> <td>38</td> <td>60°</td> <td>3 hrs.</td> </tr> <tr><td>2.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>				FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow	NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	SI	14 days						1511	60°		1.	2 inch	.750	38				38	60°	3 hrs.	2.										3.										4.										5.									
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RATE OF FLOW CALCULATIONS																																																																																		
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd																																																																											
1	12.3650		50	1.000	1.008	1.001	624																																																																											
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NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. Specific Gravity Separator Gas _____ X X X X X X X X Specific Gravity Flowing Fluid _____ X X X X X Critical Pressure _____ P.S.I.A. Critical Temperature _____ R																																																																													
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P _r 1523 P _w 2,319,529 NO. 1 P _r 611 P _w 373,321 P _r ² - P _w ² 1,946,208					(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.1918$ (2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.16085$ AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$																																																																													
Absolute Open Flow 724					Angle of Slope 0.85																																																																													
Remarks: Potential well conducted in conjunction with the initial packer Testing & back for 1978.																																																																																		
Approved By: _____		Conducted By: _____		Calculated By: _____		Checked By: _____																																																																												
Don P. Elledge		Don P. Elledge		Don P. Elledge		Don Roberts																																																																												