

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11-7-73																																																																								
Company DALPORT OIL CORPORATION				Connection																																																																								
Pool UNDESIGNATED				Formation QUEEN																																																																								
Completion Date		Total Depth 2612'		Plug Back TD 2568'																																																																								
				Elevation																																																																								
Farm or Lease Name STATE COM.																																																																												
Csg. Size 4 1/2"	Wt.	d	Set At 2612'	Perforations: From 2514' To 2522.5'																																																																								
Thg. Size 2"	Wt. 4.7	d 1.995	Set At 2484' GR.	Perforations: From To																																																																								
Type Well - Single - Bradenhead - G.G. or G.O. Multiple + SINGLE				Packer Set At																																																																								
Producing Thru TUBING		Reservoir Temp. °F 84° @ 2519'		Mean Annual Temp. °F 60°																																																																								
				Baro. Press. - P _a 13.2																																																																								
L .2519		H	Gg .930	% CO ₂ .12	% N ₂ 71%																																																																							
				% H ₂ S -----	Prover POS. CHOKE																																																																							
				Meter Run	Taps																																																																							
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4">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 Orifice Size</th> <th>Press. p.s.i.g.</th> <th>Diff. h_w</th> <th>Temp. °F</th> <th>Press. p.s.i.g.</th> <th>Temp. °F</th> </tr> <tr> <td>SI</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>883.0</td> <td></td> <td>96 HR.</td> </tr> <tr> <td>1.</td> <td></td> <td>8/64"</td> <td></td> <td></td> <td>60° EST</td> <td>488.0</td> <td>75</td> <td>1 HR.</td> </tr> <tr> <td>2.</td> <td></td> <td>10/64"</td> <td>POSITIVE</td> <td></td> <td>60° EST</td> <td>393.0</td> <td>74</td> <td>1 HR.</td> </tr> <tr> <td>3.</td> <td></td> <td>12/64"</td> <td>CHOKE</td> <td></td> <td>60° EST</td> <td>297.0</td> <td>72</td> <td>1 HR.</td> </tr> <tr> <td>4.</td> <td></td> <td>14/64"</td> <td></td> <td></td> <td>60° EST</td> <td>234.0</td> <td>72</td> <td>1 HR.</td> </tr> <tr> <td>5.</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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	SI						883.0		96 HR.	1.		8/64"			60° EST	488.0	75	1 HR.	2.		10/64"	POSITIVE		60° EST	393.0	74	1 HR.	3.		12/64"	CHOKE		60° EST	297.0	72	1 HR.	4.		14/64"			60° EST	234.0	72	1 HR.	5.								
FLOW DATA				TUBING DATA		CASING DATA		Duration of Flow																																																																				
NO.	Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F																																																																					
SI						883.0		96 HR.																																																																				
1.		8/64"			60° EST	488.0	75	1 HR.																																																																				
2.		10/64"	POSITIVE		60° EST	393.0	74	1 HR.																																																																				
3.		12/64"	CHOKE		60° EST	297.0	72	1 HR.																																																																				
4.		14/64"			60° EST	234.0	72	1 HR.																																																																				
5.																																																																												
RATE OF FLOW CALCULATIONS																																																																												
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor EST. Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd																																																																					
1	0.2618	POSITIVE	501.2	1.000	1.037	1.011	137.6																																																																					
2	0.4173	CHOKE	406.2	1.000	1.037	1.009	177.4																																																																					
3	0.6101		310.2	1.000	1.037	1.007	197.6																																																																					
4	0.8419		247.2	1.000	1.037	1.006	217.1																																																																					
5																																																																												
NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio T.S.T.M. Mcf/bbl.																																																																							
1	0.93	520	2.14	0.979	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.																																																																							
2	0.75	520	2.14	0.983	Specific Gravity Separator Gas _____ X X X X X X X X																																																																							
3	0.57	520	2.14	0.987	Specific Gravity Flowing Fluid _____ X X X X X																																																																							
4	0.46	520	2.14	0.989	Critical Pressure EST. 541 P.S.I.A. _____ P.S.I.A.																																																																							
5					Critical Temperature EST. 243 °R _____ °R																																																																							
PF 993.2 PF ² 986.4																																																																												
NO.	P _t ²	P _s	P _s ²	P _t ² - P _s ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1176$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1176$																																																																							
1		630.2	397.2	589.2																																																																								
2		506.2	256.2	730.2																																																																								
3		398.2	158.2	827.8																																																																								
4		322.2	103.8	882.6	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 242.6$																																																																							
5																																																																												
Absolute Open Flow 242.6 Mcfd @ 15.025				Angle of Slope @ 45°		1.000 LIMIT Slope, n.																																																																						
Remarks: BOTTOM HOLE PRESSURES MEASURED WITH KUSTER GAUGE @ 2519' POSITIVE CHOKES USED TO MEASURE GAS VOLUMES % N ₂ EXCEEDS N.M.O.C.C. TABLES - SLOPE (N) IN EXCESS OF 1.000																																																																												
Approved By Commission		Conducted By D. TYSON		Calculated By R. WEST		Checked By J.W.W.																																																																						