

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 7-30-79																																																																																																	
Company AMOCO PRODUCTION COMPANY				Connection GAS COMPANY OF NEW MEXICO																																																																																																			
Pool UTE DOME				Formation DAKOTA				Unit																																																																																															
Completion Date 7-15-79		Total Depth 3446		Plug Back TD 3228		Elevation 6858		Farm or Lease Name UTE INDIANS A																																																																																															
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 3445	Perforations: From 3130 To 3168		Well No. 14																																																																																																	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 3141	Perforations: From Open To Ended		Unit Sec. Twp. Rge. M 25 32 14																																																																																																	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At None		County San Juan																																																																																															
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico																																																																																															
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps																																																																																															
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="6">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. h_w</th> <th>Temp. °F</th> <th>Press. p.s.i.g.</th> <th>Temp. °F</th> <th>Press. p.s.i.g.</th> <th>Temp. °F</th> </tr> <tr> <td>SI</td> <td>8 Days</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>560</td> <td></td> <td>597</td> <td></td> <td></td> </tr> <tr> <td>1.</td> <td>2.375</td> <td></td> <td>.750</td> <td></td> <td></td> <td></td> <td>180</td> <td>60</td> <td>396</td> <td></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><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><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><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><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	Press. p.s.i.g.	Temp. °F	SI	8 Days						560		597			1.	2.375		.750				180	60	396		3 Hrs.	2.												3.												4.												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	Press. p.s.i.g.		Temp. °F																																																																																												
SI	8 Days						560		597																																																																																														
1.	2.375		.750				180	60	396		3 Hrs.																																																																																												
2.																																																																																																							
3.																																																																																																							
4.																																																																																																							
5.																																																																																																							
RATE OF FLOW CALCULATIONS																																																																																																							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd																																																																																																
1	12.365		192	1.000	.9608	1.022	2331																																																																																																
2.																																																																																																							
3.																																																																																																							
4.																																																																																																							
5.																																																																																																							
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. _____ P.S.I.A. Critical Temperature _____ R _____ R																																																																																																		
1																																																																																																							
2																																																																																																							
3																																																																																																							
4																																																																																																							
5																																																																																																							
P _c 609 P _c ² 370881 <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>P_t²</th> <th>P_w</th> <th>P_w²</th> <th>P_c² - P_w²</th> </tr> <tr> <td>1</td> <td></td> <td>408</td> <td>166464</td> <td>204417</td> </tr> <tr><td>2</td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td></tr> </table>					NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	1		408	166464	204417	2					3					4					5					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8143$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.5633$ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3644$																																																																				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²																																																																																																			
1		408	166464	204417																																																																																																			
2																																																																																																							
3																																																																																																							
4																																																																																																							
5																																																																																																							
Absolute Open Flow _____ Mcfd @ 15.025					Angle of Slope θ _____			Slope, n = .75																																																																																															
Remarks: _____																																																																																																							
Approved By Commission:			Conducted By: R. A. Conner			Calculated By: R. A. Conner			Checked By: B. E. Fackrell																																																																																														