

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

Form C-122
Revised 9-1-65

RECEIVED
FEB 23 1984
OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 02-14-84																																																																																																		
Company El Paso Natural Gas Co.				Connection El Paso Natural Gas Company																																																																																																			
Pool Otero				Formation Chacra				Unit S.J. 28-7 Unit																																																																																															
Completion Date 02-07-84		Total Depth 3455		Plug Back TD 3441		Elevation 6021 GR		Farm or Lease Name S.J. 28-7 Unit																																																																																															
Csg. Size 2.875	Wt. 6.4	d 2.441	Set At 3451	Perforations: From 3187 To 3391				Well No. 269																																																																																															
Tbg. Size	Wt.	d	Set At	Perforations: From To				Unit Sec. Twp. Rge. F 30 27 07																																																																																															
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None				County Rio Arriba																																																																																															
Producing Thru CSG		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico																																																																																															
L	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps																																																																																															
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th align="center" colspan="6">FLOW DATA</th> <th align="center" colspan="2">TUBING DATA</th> <th align="center" colspan="2">CASING DATA</th> <th align="center" 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></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>946</td> <td></td> <td>7 days</td> </tr> <tr> <td>1.</td> <td></td> <td></td> <td>.750</td> <td>203</td> <td></td> <td>59</td> <td></td> <td></td> <td>203</td> <td></td> <td>3 hours</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									946		7 days	1.			.750	203		59			203		3 hours	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 Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd																																																																																																
1	12.365		215	1.0010	.9325	1.025	2544																																																																																																
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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. _____ P.S.I.A. Critical Temperature _____ R _____ R																																																																																																		
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NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{917764}{839923}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0687$ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2719$																																																																																																		
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Absolute Open Flow 2719 Mcfd @ 15.025					Angle of Slope @			Slope, n .75																																																																																															
Remarks: Gas vented during test = 368 MCF																																																																																																							
Approved By Commission: _____ Conducted By: Les Hepner Calculated By: Ed Mabe Checked By: _____																																																																																																							