

**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 6-28-85			
Company El Paso Natural Gas				Connection				
Pool Basin				Formation Dakota				Unit
Completion Date 6-28-85		Total Depth 6572		Plug Back TD 6556		Elevation 6240 GR		Farm or Lease Name Angel Peak
Csq. Size 4.500	Wt. 10.5	d 4.052	Set At 6573	Perforations: From 6408 To 6532			Well No. #3E	
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 6498	Perforations: From To			Unit Sec. Twp. Rge. I 20 27 11	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single					Packer Set At None		County San Juan	
Producing Thru Tbg.		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico
L	H	G _g .700	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps

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							597		749		7 Days
1.			.750	51		74	51		397		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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		63	.9868	.9258	1.009	718
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbon _____ Deg.
2.					Specific Gravity Separator Gas _____
3.					Specific Gravity Flowing Fluid _____
4.					Critical Pressure _____ P.S.I.A.
5.					Critical Temperature _____ R

P_c 761 P_c² 579121

NO P_t² P_w P_w² P_c² - P_w² <tr> <td>1</td> <td></td> <td>409</td> <td>167281</td> <td>411840</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>	1		409	167281	411840	2					3					4					5				
1		409	167281	411840																					
2																									
3																									
4																									
5																									

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{579121}{411840}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2913$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 927$

Absolute Open Flow 927 Mcfd @ 15.025		Angle of Slope @	Slope, n .75
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Remarks: Surges of oil & water throughout test. Gas Vented during test 108 MCF.

Approved By Commission:	Conducted By: Don Norton	Calculated By: Ed Mabe	Checked By: kld
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