

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 9-24-85		SEP 26 1985	
Company El Paso Natural Gas				Connection OIL CON. DIV.			
Pool Basin				Formation Dakota		Unit DIST. 3	
Completion Date 9-24-85		Total Depth 7505		Plug Back TD 7497		Elevation 6249 GR	
Form or Lease Name S.J. 28-7 Unit				Well No. #187 E			
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 7503	Perforations: From 7204 To 7402		Unit P 24 28 07	
Tqg. Size 1.900	Wt. 2.9	d 1.610	Set At 7387	Perforations: From To		Unit P 24 28 07	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At None		County Rio Arriba	
Producing Thru Tbg.		Reservoir Temp. °F a		Mean Annual Temp. °F		Baro. Press. - P _a 12	
L		H		G _g		State New Mexico	
				% 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.	
SI							1971		2043	
1.			.750	185		57	185		1203	
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		197	1.0029	.9325	1.021	2326
2.							
3.							
4.							
5.							

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

P _r 2055	P _w 4223025	
NO.	P _r	P _w
1	1215	1476225
2		
3		
4		
5		

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{4223025}{2746800}$$

$$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3211$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3807$$

Absolute Open Flow	3211	Mcfd @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks:	Gas vented during test = 338 MCF.
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Approved By Commission:	Conducted By: N.L. Waggoner	Calculated By: Ed Mabe	Checked By: kld
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