

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 8-20-85	
Company El Paso Natural Gas			
Pool Basin		Unit S.Dakota	
Completion Date 8-20-85	Total Depth 8088	Plug Back TD 8071	Elevation 6860 GR.
Farm or Lease Name S.J. 27-4 Unit			
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 8087
Perforations: From 7864 To 8073		Well No. #50E	
Tub. Size 1.900	Wt. 2.9	d 1.610	Set At 8036
Perforations: From To		Unit C	Sec. 19
Twp. 27		Rge. 04	
Type Well - Single - Brazenhead - G.G. 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
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							2245		2258		7 Days
1.		.750		123		67	123		995		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		135	.9933	.9258	1.017	1561
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 _____
3.					Specific Gravity Flowing Fluid _____
4.					Critical Pressure _____ P.S.I.A.
5.					Critical Temperature _____ R

P _r 2270	P _w 5152900	
NO.	P _r	P _w
1	1007	1014049
2		
3		
4		
5		

$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{5152900}{4138851}$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1786$	
$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1840$			

Absolute Open Flow	1840	Mcf/d @ 15.025	Angle of Slope	.75
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Remarks: Produced heavy mist of water during test. Gas vented during test = 306 MCF.	
Approved by Commission:	Conducted By: Harold Cloer
Calculated By: Cliff Brock	Checked By: kld