

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 9-24-85	
Company El Paso Natural Gas		Connection	
Pool Basin		Formation Dakota	
Completion Date 9-24-85	Total Depth 7810	Plug Back TD 7761	Elevation 6644 GR
Farm or Lease Name S.J. 28-7 Unit			Well No. #158E
Csg. Size 4.500	wt. 10.5	d 4.052	Set At 7810
Perforations: From 7606 To 7793		Unit P 23 Sec. 28 Twp. 07	
Teg. Size 1.900	wt. 2.9	d 1.610	Set At 7760
Perforations: From To		County Rio Arriba	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At None	State New Mexico
Producing Thru Tbg.	Reservoir Temp. °F a	Mean Annual Temp. °F	Baro. Press. - P _a 12
L	H	G _g .690	% 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
1.		.750		141		62	2234		2246		7 Days
2.							141		997		3 Hrs.
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		153	.9981	.9325	1.014	1785
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	Deq.
2.					Specific Gravity Separator Gas	XXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _r 2258	P _w ² 5098564	
NO.	P _r	P _w
1.	1009	1018081
2.		
3.		
4.		
5.		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{5098564}{4080483}$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1818$	
ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2110$			

Absolute Open Flow	2110	Mcf/d @ 15.025	Angle of Slope	Slope, n	.75
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Remarks: Gas vented during test 311 MCF.	
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Approved by Commission:	Conducted By: W.D Paul	Calculated By: Ed Mabe	Checked By: kld
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