

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

Form C-122
Revised 9-1-65

RECEIVED
MAR 20 1985
OIL CON. DIV.
DIST. 2

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 3-18-85	
Company El Paso Natural Gas				Connection		
Pool Basin				Formation Dakota		Unit DIST. 2
Completion Date 3-18-85		Total Depth 7750		Plug Back TD 7740		Elevation 6478 GR
Farm or Lease Name S.J. 29-7 Unit						Well No. 77E
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 7748	Perforations: From 7503 To 7737		Unit Sec. Twp. Rge. A 33 29 7
Thq. Size 1.900	Wt. 2.9	d 1.610	Set At 7669	Perforations: From To		
Type Well - Single - Brazenhead - 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	Gg .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	
1.			.750	178		64	2695	2651	10 Days
2.							452	178	3 Hrs
3.									
4.									
5.									

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		190	.9962	.9258	1.022	2214
2.							
3.							
4.							
5.							

NO.	P _t	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 _c 2707	P _c ² 7327849	
NO	P _t ²	P _w
1		464
2		
3		
4		
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{7327849}{7112553}$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0226$	
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2264$			

Absolute Open Flow	2264	Mcf/d @ 15.025	Angle of Slope @	Slope, n .75
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Remarks: Gas vented during test = 387 MCF, produced heavy mist of water throughout test.

Approved By Commission:	Conducted By: Bill Norman	Calculated By: Ed Mabe	Checked By: kld
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