

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 9-20-85	
Company El Paso Natural Gas				Connection	
Pool Basin				Formation Dakota	
Completion Date 9-20-85		Total Depth 8166		Plug Back TD 8152	
Elevation 6828 GR		Farm or Lease Name S.J. 29-7 Unit			
Csg. Size 4.500	Wt. 10.5	Set At 8160	Perforations: From 7870 To 8106		Well No. #128
Teg. Size	Wt.	Set At	Perforations: From To		Unit Sec. Twp. Rge. K 27 29 07
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None	
Producing Thru Tbg.		Reservoir Temp. °F		Baro. Press. - P _a 12	
Mean Annual Temp. °F		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	Pressure p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI						2609		2609		7 Days
1.	.750		H2-20	1535	158	220		1401		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		232	1.0019	.9258	1.030	2741
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 2621	P _w 6869641		
NO.	P _r	P _w	P _r ² - P _w ²
1	1413	1996569	4873072
2			
3			
4			
5			

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = \frac{6869641}{4873072}$

ACF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 3546$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.2937$

Absolute Open Flow	3546	Mcf/d @ 15.025	Angle of Slope →	SE 1/4	Slope, n	.75
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Remarks: Light mist during test.
Gas vented during test 422 MCF.

Approved by Commission:	Conducted By: John Ealey	Calculated By: Cliff Brock	Checked By: kld
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