

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 7-29-85		AUG 02 1985	
Company El Paso Natural Gas				Connection			
Pool Basin				Formation Dakota		Unit DIST. 3	
Completion Date 7-29-85		Total Depth 6945		Plug Back TD 6926		Elevation 6599 GR	
Form or Lease Name Huerfano Unit				Well No. #109E			
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 6945	Perforations: From 6733 To 6854			
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 6832	Perforations: From To		Unit Sec. Twp. Rge. H 2 26 10	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County San Juan	
Producing Thru Tbg.		Reservoir Temp. °F a		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	Press. p.s.i.g.		Temp. °F
SI							1179		1367		7 Days
1.		.750	179			78	179		560		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		191	.9831	.9258	1.020	2193
2.							
3.							
4.							
5.							

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

P _r 1379	P _r ² 1901641	
NO.	P _r	P _w
1	572	327184
2		
3		
4		
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1901641}{1574457}$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1521$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2527$

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.

Specific Gravity Separator Gas _____

Specific Gravity Flowing Fluid _____

Critical Pressure _____ P.S.I.A.

Critical Temperature _____ R

Absolute Open Flow _____ Mcfd @ 15.025	Angle of Slope θ _____	Slope, n .75
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Remarks: Gas vented during test = 359 MCF.

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