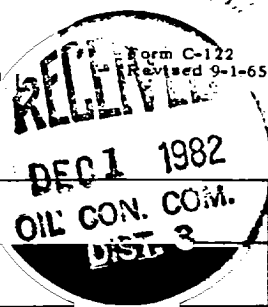


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS



Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 11-30-82						
Company El Paso Natural Gas Company					Connection Northwest Pipeline Corp.						
Pool Basin					Formation Dakota						
Completion Date 11-23-82			Total Depth 7920		Plug Back TD 7911		Elevation 6630 GR		Farm or Lease Name San Juan 27-5 Unit		
Csg. Size 9.625	Wt. 40	d 8.835	Set At 3747	Perforations: From *7684 To 7886				Well No. #113E			
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 7850	Perforations: From To				Unit Sec. Twp. Rge. C 10 27 5			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Dual					Packer Set At 6109			County Rio Arriba			
Producing Thru Tbg.		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico			
L	H	Gg .695	% 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							1802				7 Days
1.			.750	110		61	110				3 Hours
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		122	.9990	.9292	1.014	1420
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 1814	P _c ² 3290596	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{3290596}{3216612}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0172$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1	14884	272	73984	3216612
2				
3				
4				
5				

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1444$

Absolute Open Flow 1444 _____ Mcfd @ 15.025	Angle of Slope θ _____	Slope, n .75
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Remarks: * 7.000" Liner 3582' - 6240'
* 4.500" Liner 6146' - 7919'

Gas Vented During Test - 248 MCF

Approved By Commission:	Conducted By: Gary Gonzales	Calculated By: Ed Mabe	Checked By:
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