

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 9-22-80	
Company Amoco Production Company				Connection El Paso Natural Gas Company			
Pool Basin				Formation Dakota		Unit	
Completion Date 9-10-80		Total Depth 6183		Plug Back TD 6134		Elevation 5731 GL	
Csg. Size 4.500		WT. 10.5		Set At 4.052		Perforations: From 6020 To 6084	
Trg. Size 2.375		WT. 4.7		Set At 6101		Perforations: From Open To Ended	
Type Well - Single - Broadhead - G.G. or G.O. Multiple Single						Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a	
L		H		Gg		State New Mexico	
				% CO ₂		County San Juan	
				% N ₂		Meter Run	
				% H ₂ S		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	7 days						1307		1382		3 hrs.
1.	2.375		.750				345		1042		
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		357	1.000	.9258	1.044	4267
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 _c 1394 P _c ² 1943236			
NO.	P _r	P _w	P _r ² - P _w ²
1		1054	1110916
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_r^2 - P_w^2} = \frac{1943236}{1110916 - 1110916} = 2.9947$

AOF = Q $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 8059$

(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.8888$

Absolute Open Flow	8059	Mcf @ 15.025	Angle of Slope θ	Slope, n	.75
Remarks:					

Approved By Commission	Conducted By J. J. Barnett	Calculated By J. J. Barnett	Checked By
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