

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 12-5-81	
Company Amoco Production Company				Connection El Paso Natural Gas Company			
Pool Basin				Formation Dakota		Unit	
Completion Date 10-24-81		Total Depth 7461		Plug Back TD 7453		Elevation 5947 GL	
Csg. Size 4.500		Wt. 11.6		Set At 4.000 7461		Perforations: From 7294 To 7410	
Trg. Size 2.375		Wt. 4.7		Set At 1.995 7426		Perforations: From open To ended	
Type Well - Single - Bradenhead - 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		G _g		State New Mexico	
				% CO ₂		Prover	
				% 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.	
SI	10 Days						1850		1865	
1.	2.375		.750				67		303	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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcf/d
1	12.365		79	1.000	.9258	1.009	912
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 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

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²
1	1877	315	99225	3523129
2				
3				
4				
5				

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.0290$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 931$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.0217$

Absolute Open Flow	931	Mcf/d @ 15.025	Angle of Slope @	Slope, n .75
--------------------	-----	----------------	------------------	--------------

Remarks: _____

Approved by Commission	Conducted by J. J. Barnett	Calculated by J. J. Barnett	Checked by <i>JB</i>
------------------------	-------------------------------	--------------------------------	-------------------------