

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special				Test Date 12-7-85								
Company Amoco Production Co.				Connection El Paso Natural Gas Company								
Pool Basin				Formation Dakota								
Completion Date 11-28-85		Total Depth 7169'		Plug Back TD 7152'								
				Elevation 5925' GL								
Farm or Lease Name A.L. Elliott "D"												
Csq. Size 4.500	Wt. 11.6	d 4.000	Set At 7169'	Perforations: From 6862' To 7144'								
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 7109'	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 0		Baro. Press. - P _a								
				State New Mexico								
L	H	G _g	% CO ₂	% N ₂	% H ₂ S							
FLOW DATA			TUBING DATA		CASING DATA							
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	Duration of Flow	
SI	9 days						650		1760			
1.	2.375		.756				160		580		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		172	1.000	.9258	1.020	2008					
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 _____							
3.					Specific Gravity Flowing Fluid _____							
4.					Critical Pressure _____ P.S.I.A.							
5.					Critical Temperature _____ R							
P _c 1772 P _c ² 3139984					DEC 20 1985 OIL CON. DIV. DIST. 3							
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1256$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0928$							
1		592	350464	2789520								
2												
3												
4												
5												
$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2194$												
Absolute Open Flow 2194					Mcf/d @ 15.025			Angle of Slope ϕ		Slope, n .75		
Remarks: Flared, Lite Condensate, Medium H ₂ O												
Approved By Division				Conducted By: Bryan Services				Calculated By: J.J. Barnett				
								Checked By: QB				