

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special		Test Date 2-21-85	
Company Amoco Production Co.		Connection El Paso Natural Gas Co.	
Pool Basin		Formation Dakota	
Completion Date 2-14-85		Total Depth 7138	Plug Back TD 7134
		Elevation 5948 GR	Form or Lease Name A.L. Elliott "C"
Ceq. Size 7,000	Wt. 23	d 6,366	Set At 2880
Perforations: From 6858 To 6978		Well No. 4E	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 7063
Perforations: From open To ended		Unit Sec. Twp. Rge. F 15 29 9	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single		Packer Set At none	
Producing Thru tubing		Baro. Press. - P _a	
State New Mexico			
L	H	G _q	% CO ₂
			% N ₂
			% H ₂ S
Prover		Meter Run	
Taps			
FLOW DATA			
NO.	Prover Line Size	X	Orifice Size
			Press. p.s.i.g.
			Diff. h _w
			Temp. °F
SI	7 days		
1.	2.875	.750	
2.			
3.			
4.			
5.			
TUBING DATA			
			Press. p.s.i.g.
			Temp. °F
CASING DATA			
			Press. p.s.i.g.
			Temp. °F
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		230
2.			1,000
3.			.9258
4.			1.023
5.			2693
NO.	P _t	Temp. °R	T _r
			Z
1			
2.			
3.			
4.			
5.			
Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.			
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
Specific Gravity Separator Gas _____ X X X X X X X X			
Specific Gravity Flowing Fluid _____ X X X X X			
Critical Pressure _____ P.S.I.A.			
Critical Temperature _____ R			
P _c 1988 P _c ² 3952144			
NO.	P _t ²	P _w	P _w ²
			P _c ² - P _w ²
1		560	313600
2			3638544
3			
4			
5			
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0862$			
(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0640$			
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2865$			
Absolute Open Flow 2865 Mcfd @ 15.025			
Angle of Slope θ _____			
Slope, n .75			
Remarks: 4.500 set @ 7138' 11.6			
Lite H2O, lite Oil, well flared			
Approved By Division		Conducted By: Bryan Services	Calculated By: JJ Barnett
			Checked By: JF