

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6-18-85		RECEIVED JUN 20 1985 OIL CON. DIV. / DIST. 3			
Company El Paso Natural Gas						Connection					
Pool Basin						Formation Dakota					
Completion Date 6-18-85			Total Depth 6317		Plug Back TD 6303		Elevation 5661 GR		Farm or Lease Name Hudson		
Csg. Size 4.500		Wt. 11.6		Set At 4.000 6317		Perforations From 6116 To 6256		Well No. #3E			
Tbg. Size 2.375		Wt. 4.7		Set At 1.995 6230		Perforations From To		Unit Sec. Twp. Rge. F 8 29 12			
Type Well - Single - Drdhead - G.C. or G.O. Multiple Single						Packer Set At None		County San Juan			
Producing Thru Tbg.		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico			
L		H		Gg .700		% 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							1479		1482		9 Days
1.			.750	56		88	56		541		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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		68	.9741	.9258	1.009	765
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf, bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 1494 P _c ² 2232036			
NO.	P _t ²	P _w	P _w ²
1		553	305809
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_t^2 - P_w^2} = \frac{2232036}{1926227}$ (2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.1169$

AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 854$

Absolute Open Flow 854		Mcf @ 15.025		Angle of Slope @ _____		Slope, n .75	
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Remarks: Unloaded liquid after 5 minutes changed to liquids after 30 minutes
Gas vented during test = 159 MCF.

Approved by Division	Conducted By: Gabe Archibeque	Calculated By: Ed Mabe	Checked By: kld
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