

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 12/11/86	
Company Union Texas Petroleum			Connection Gas Co of New Mexico		
Pool Blanco			Formation Mesaverde		Unit
Completion Date 11/25/86		Total Depth 6289	Plug Back TD 6244	Elevation 7265' GL	Form or Lease Name McCroden B
Calc. Size 4.988	Wt. 23.0	d 4.366	Set At 3939-6289	Perforations: From 5900 To 6015	Well No. 3A
Inq. Size 2.375	Wt. 4.7	d 1.995	Set At 5994	Perforations: From 5962 To 5968	Unit Sec. Twp. Rye. I 4 25N 3W
Type Well - Single - Broadhead - G.C. or G.O. Multiple Single-Gas				Packer Set At	County Rio Arriba
Producing Thru Tubing		Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. - P _g 12	State New Mexico
L 5962	H	G _g 0.670	% 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.	Dist. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI	2"		3/4"				1022		965		7 Days
1.							202	59°	501	59°	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 Ft.	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	12.3650		214	1.0010	0.9463	1.024	2567
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 Hydrocarbon	Deg.
2					Specific Gravity Separator Gas	XXXXXXX
3					Specific Gravity Flowing Fluid	DIST. 9
4					Critical Pressure	P.S.I.A.
5					Critical Temperature	R

NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²
1	1034	513	263,169	805,987
2.				
3.				
4.				
5.				

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.3265$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 3173$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.2360$

Absolute Open Flow	3173	Mcf @ 15.025	Angle of Slope @	Slope, n	0.75
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Remarks:

Approved By Division	Conducted By:	Calculated By:	Checked By:
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