

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS



Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 6-1-82	
Company Beartooth Oil & Gas Co.				Connection Northwest Pipeline		
Pool Blanco				Formation Mesaverde		
Completion Date 5-30-82		Total Depth 6180		Plug Back TD 6130		
				Elevation 7159 G.L.		
Farm or Lease Name Minel Federal						
Csg. Size 4.500		ID 11.6		Set At 6173		
Tbg. Size 2 3/8		ID 4.7		Set At 6081		
				Perforations: From 5905 To 6092		
				Perforations: From open To ended		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		
Producing Thru Tbg.				Baro. Press. - P _a 12 est.		
Reservoir Temp. *F #		Mean Annual Temp. *F		State New Mexico		
L	H	Gg	% 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	8 days						1339		1307		
1.	2 inch		.750	308			308	60°	716		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	12.3650		320	1.000	.9608	1.032	3923
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 _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		728	529984	1295217
2				
3				
4				
5				

P_c 1351 P_c² 1825201

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.40919$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.29337$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5074$

Absolute Open Flow 5074 Mcfd @ 15.025

Angle of Slope Θ _____ Slope, n .75

Remarks: Dry gas with good show of condensate.

Approved By Division	Conducted By: Joe Elledge	Calculated By: Joe Elledge	Checked By: Jim Routsen
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