

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS

Type Test ☒ Initial ☐ Annual ☒ Special				Test Date 5-21-82	
Company Beartooth Oil & Gas Co.			Connection Northwest Pipeline Corp.		
Pool Blanco			Formation Mesaverde		Unit
Completion Date 5-12-82		Total Depth 6271		Plug Back TD 6260	Elevation 7404 G.L.
Csq. Size 4.500	Wt. 11.6	d 	Set At 6271	Perforations: From 6078 To 6245	
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 6196	Perforations: From Open To Ended	
Type Well - Single - Dradenhead - G.G. or G.O. Multiple Single				Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F 		Mean Annual Temp. °F 	
Baro. Press. - P _a 12 psia		County Rio Arriba			
State New Mexico		Well No. 3A			
L	H	G _g .650	% 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	
1	9 days						1327		1344		
2	2 inch		.750				386	60°	753		3 hrs.
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		398	1.000	.9608	1.039	4912
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

P _c 1356 P _c ² 1838736				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		765	585225	125351
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.46687$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6547$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.33287$

Absolute Open Flow	6547	Mcfd @ 15.025	Angle of Slope θ	Slope, n .75
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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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