

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☐ Initial ☐ Annual ☒ Special					Test Date 8-22-85	
Company Southern Union Exploration				Connection GCNM		
Pool Blanco				Formation Mesa Verde		Unit
Completion Date 8-8-85		Total Depth 6110		Plug Back TD 6082		Elevation
Farm or Lease Name Jicarilla B						
Csq. Size 4.500	Wt. 10.5	d 4052	Set At 6103	Perforations: From 5692 To 5946		Well No. 15
Tbg. Size 2.0625	Wt. 3.25	d 1.751	Set At 5942	Perforations: From To		Unit Sec. Twp. Rge. J 36 26 4
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single-Gas				Packer Set At		County Rio Arriba
Producing Thru Tbg		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							1100		1120		7 days
1.		.750				60	70		394		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		82	1.000	.9682	1.007	989
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure P.S.I.A.	Critical Temperature °R
1.							.640	X X X X X		
2.							X X X X X			
3.										
4.										
5.										

NO.	P _t	P _w	P _w ²	P _c ² - P _w ²
1		406	164836	116588
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1476$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1097$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1088$

Absolute Open Flow	1097	Mcfd @ 15.025	Angle of Slope	Slope, n .75
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Remarks: 1 hr into test well was making light mist of water. At end of test well was slugging very light mist of water. This test was performed after Cliff House formation was squeezed off.

Approved By: Division	Conducted By: <i>Edmund Rodriguez</i>	Calculated By: <i>Edmund Rodriguez</i>	Checked By:
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