

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 8-30-84		RECEIVED SEP 04 1984 OIL CON. DIV. DIST. 3		
Company Southern Union Exploration				Connection					
Pool Blanco				Formation Mesa Verde					
Completion Date 8-15-84		Total Depth 6203		Plug Back TD 6159		Elevation		Farm or Lease Name Jicarilla	
Csq. Size 4.500	Wt. 10.5	d 4.052	Set At 6180	Perforations: From 5510 To 6101		Well No. D-20			
Thq. Size 2.0625	Wt. 3.25	d 1.751	Set At 6042	Perforations: From To		Unit N 31 26N 3W			
Type Well - Single - Brodenhead - G.G. 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 _a		State New Mexico	
L	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover Choke		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			750				1135		1145		7 days
1.						69	190		650		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		202	.9915	.9393	1.022	2377
2.							
3.							
4.							
5.							

NO.	P _t	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 .680 X X X X X X X X
3.					Specific Gravity Flowing Fluid X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

NO.	P _t ²	P _w ²	P _c ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1		662	438244	900405	1.4867	1.3464
2						
3						
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ 3200

Absolute Open Flow 3200 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: Well Blew Dry for About 1 hr. Then started blowing a light to medium mist. Well flowing 1/2" stream of water and light to medium mist at end of test.

Approved by Division	Conducted By: <i>Charles H. Hudson</i>	Calculated By: <i>Charles H. Hudson</i>	Checked By:
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