

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 1/31/85		FEB 04 1985	
Company Union Texas Petroleum Corp.			Connection Gas Company of New Mexico		
Pool Blanco			Formation Mesaverde		OIL CON. DIV. DIST. 3
Completion Date 12/14/84		Total Depth 7300		Plug back TD 7256	
Elevation 6630		Farm or Lease Name Jicarilla "J"			
Csq. Size 4.500	Wt. 11.60	d 3.428	Set At 7300	Perforations: From 4807 To 7246	
Well No. 23A					
Tng. Size 2.375	Wt. 4.70	d 1.995	Set At 7211	Perforations: Open-Ended	
Unit J		Sec. 25		Twp. 26N	
Rye. 5W					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas - Oil (Commingle)				Packer Set At NA	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F 12	
Baro. Press. - P _g 12		State New Mexico			
L 7201	H	G _g 0.650	% 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
SI	2"		3/4"				1083		1321		7 days
1.							198	70°	597		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		210	0.9905	0.9608	1.019	2518
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 _____ 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	P _w	P _w ²	P _c ² - P _w ²
1	1333	609	370.881	1,406.008
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2638$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1919$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3001$

Absolute Open Flow 3001 Mcfd @ 15.025

Angle of Slope θ _____

Slope, n 0.75

Remarks: _____

Approved By Division	Conducted By: Bruce Voiles	Calculated By: Ken Roddy	Checked By:
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