

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11/8/84			
Company Union Texas Petroleum Corp.				Connection Gas Company of New Mexico			
Pool Basin				Formation Dakota			
Completion Date 8/31/84		Total Depth 8360		Plug Back TD 8320		Elevation 7180	
Csg. Size 5.500		WT. 17.00 d 4.892 15.50 4.950		Set At 8360		Perforations: From 8172 To 8250	
Trg. Size 2.375		WT. 4.70 d 1.995		Set At 8225		Perforations: From 8162 To 8168	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At NA		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _g 12	
State New Mexico							
L 8150		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"				2307		2307		7 Days
1.							88	56°	460		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		100	1.0039	0.9608	1.000	1193
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 _c	P _w	P _c ²	P _w ²	P _c ² - P _w ²
1	2319	472	5,377,761	222,784	5,154,977
2.					
3.					
4.					
5.					

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0432$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0322$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1231$$

Absolute Open Flow	1231	Mcfd @ 15.025	Angle of Slope @	Slope, n 0.75
--------------------	------	---------------	------------------	---------------

Remarks:

Approved By Division	Conducted By: John Rector	Calculated By: Ken Roddy	Checked By:
----------------------	------------------------------	-----------------------------	-------------