

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10/09/86	
Company Union Texas Petroleum			Connection S.U.G.C.		
Pool Otero			Formation Chacra		Unit
Completion Date 10/02/86		Total Depth 6576	Plug Back TD 6440	Elevation 5850	Farm or Lease Name Angel Peak "B"
Gsa. Size 9.625	Wt. 40.0	d 8.835	Set At 5390	Perforations: From 2881 To 3006	Well No. 24E
7.000	23.0	6.366	5211-6569		
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 2837	Perforations: From 2807 To 2813	Unit Sec. Twp. Rge. I 13 28N 11W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.O. Multiple				Packer Set At 5280	County San Juan
Producing Thru Tubing		Reservoir Temp. °F ●	Mean Annual Temp. °F	Baro. Press. - P _a 12	State New Mexico
L 2807	H	Gg 0.680	% 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"				992		1000		7 Days
1.							67	64°	131	64°	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 Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.3650		79	0.9962	0.9393	1.007	920
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	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					OCT 24 1986		XXXXXXXXXX	XXXXXX		
2.										
3.										
4.										
5.										

P _c 1012	P _c ² 1,024,144	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0204$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0152$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		143	20,449	1,003,695
2.				
3.				
4.				
5.				

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 934$

Absolute Open Flow 934 Mcfd @ 15.025	Angle of Slope °	Slope, n 0.75
Remarks:		
Approved By Division	Conducted By: Bennie Brown	Calculated By: John Rector
Checked By:		