

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5-11-82	
Company Union Texas Petroleum Corp.		Connection El Paso Natural Gas Co.	
Pool Bloomfield		Formation Chacara	
Completion Date 4-17-82		Total Depth 6630	Plug Back TD 6578
Elevation 5645 G.L.		Farm or Lease Name New Mexico "B" Com	
Ceq. Size 5.500	Wt. 15.5	d 4.950	Set At 6630
Perforations: From 2969 To 2992		Well No. 1E	
Trq. Size 2.063	Wt. 3.25	d 1.751	Set At 2963
Perforations: From To		Unit Sec. Twp. Rge. D 16 29 11	
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Gas/Gas Dual		Packer Set At 3110'	
Producing Thru Tubing		Baro. Press. - P_a 12 psia est.	
County San Juan		State New Mexico	
L	H'	Gq	% CO ₂
.650		% N ₂	% H ₂ S
Prover		Meter Run	
Taps			
FLOW DATA			
NO.	Prover Line Size	X	Orifice Size
SI	24 days		
1.	2 inch	.750	63
2.			
3.			
4.			
5.			
TUBING DATA			
NO.	Press. p.s.i.g.	Temp. °F	Duration of Flow
	731		
	63	60°	3 hrs.
CASING DATA			
NO.	Press. p.s.i.g.	Temp. °F	
	728		
	276		
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m
1	12.3650		75
2.			
3.			
4.			
5.			
NO.	Flow Temp. Factor Ft.	Gravity Factor F_g	Super Compress. Factor, F_{pv}
1	1.000	.9608	1.010
2.			
3.			
4.			
5.			
NO.	R_f	Temp. °R	T_f
1.			
2.			
3.			
4.			
5.			
Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.			
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
Specific Gravity Separator Gas _____			
Specific Gravity Flowing Fluid _____			
Critical Pressure _____ P.S.I.A.			
Critical Temperature _____ R			
$P_c = 243$ $P_c^2 = 552049$			
NO.	P_1^2	P_w^2	$P_c^2 - P_w^2$
1		268	32944
2			
3			
4			
5			
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1768$			
(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.12987$			
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1017$			
Absolute Open Flow 1017		Mcf/d @ 15.025	Angle of Slope θ
Slope, n .75			
Remarks: Mist of water last 2 hours of test.			
Approved By Division		Conducted By: Joe Elledge	Calculated By: Joe Elledge
		Checked By: Don Wells	