

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 4/15/83	
Company Union Texas Petroleum Corp.		Connection Southern Union Gathering Co.	
Well Basin		Formation Dakota	
Completion Date 4/2/83	Total Depth 6593	Plug Back TD 6550	Elevation 5704
Farm or Lease Name McCord "B"		Well No. 1-E	
sq. Size 5.500	Wt. 17.00	d 4.892	Set At 6591
Perforations: From 6279 To 6393		Well No. 1-E	
sq. Size 2.375	Wt. 4.70	d 1.995	Set At 6361
Perforations: From 6296 To 6302		Unit Sec. Twp. Rge. F 23 30N 13W	
Type Well - Single - Broadhead - G.G. or G.O. Multiple Single		Packer Set At -----	
Producing Thru Tubing		Baro. Press. - P _g 12	
Reservoir Temp. °F #		Mean Annual Temp. °F	
County San Juan		State New Mexico	
L 6286	H	Gg 0.700	% CO ₂ % N ₂ % H ₂ S Prover Meter Run Taps

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow	
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
2"		3/4"				1687		1688		7 days
						271	82°	706		3 hours

RATE OF FLOW CALCULATIONS						
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
12.3650		283	0.9795	0.9258	1.028	3262

P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
				A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
				Specific Gravity Separator Gas _____ X X X X X X X X
				Specific Gravity Flowing Fluid _____ X X X X X
				Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
				Critical Temperature _____ R _____ R

1700	P _c ² 2,890,000			(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2171$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1587$
P _w	P _w ²	P _c ² - P _w ²			
718	515,524	2,374,476			

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3780$

absolute Open Flow 3780 Mcfd @ 15.025

Angle of Slope θ _____

DIST. 3, n 0.75

Approved By Division	Conducted By: Floyd Woodward	Calculated By: Kenneth E. Roddy	Checked By:
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