

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 4/18/89	
Company Union Texas Petroleum Corp.		Connection Union Texas Petroleum Corp.	
Pool Otero		Formation Chacra	
Completion Date 4/5/89	Total Depth 6580	Plug back TD 6482	Elevation 5786' G.L.
Farm or Lease Name Congress Lachman			
Gas. Size 2.625 7.000	WI. 40.0 23.0	d 8.835 6.366	Set At 5348 5124-6580
Perforations: From 2866 To 2978		Well No. 4E	
Trg. Size 2.375	WI. 4.7	d 1.995	Set At 2971
Perforations: From 2939 To 2945		Unit Sec. Twp. Rge. C 18 28N 10W	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Gas-Oil Multiple		Packer Set At 5386	
County San Juan			
Producing Thru Tubing	Reservoir Temp. °F #	Mean Annual Temp. °F	Baro. Press. - P _a 12
State New Mexico			
L	H	G _g .670	% 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"				888		888		9 Days
1.							155	68°	286	68°	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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		168	0.9924	0.9463	1.018	1974
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	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

P _c 900	P _c ² 810,000			
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		298	88,804	721,196
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.1231$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2153$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0909$$

Absolute Open Flow 2153	Mcf @ 15.025	Angle of Slope @	Slope, n 0.75
Remarks: Dry			

Approved By Division	Conducted By: Bennie Brown	Calculated By: John C. Rector	Checked By:
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