

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7/13/88									
Company Union Texas Petroleum Corp.		Connection Union Texas Petroleum Corp.									
Loc. Blanco		Formation Mesaverde									
Completion Date 7/2/88	Total Depth 6165	Plug back TD 6121	Elevation 7204 GL								
Form or Lease Name McCroden "A"		Well No. 8A									
Casing Size 4.500	Wt. 23.0	d 6.366	Set At 3977								
Perforations: From 5404 To 6087	Well No. 8A										
Perforations: Open Ended	Unit J										
Perforations: From 6032 To 6032	Sec. 9										
Type Well - Single - Broadhead - G.G. or G.C. Multiple Single-Gas		Packer Set At									
Producing Thru		County Rio Arriba									
Reservoir Temp. °F 8		State New Mexico									
Mean Annual Temp. °F		Baro. Press. - P _g 12									
L		M									
Ca 0.690		Prover									
% CO ₂		Meter Run									
% N ₂		Taps									
% H ₂ S											
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	Duration of Flow
1	2"		3/4"				530		1110		3 hours
2							80	58°	352	58°	7 days
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 _{sp}	Rate of Flow Q, Mcfd				
1	12.3650		92	1.0019	0.9463	1.011	1090				
2											
3											
4											
5											
NO.	P ₁	Temp. °R	T ₁	Z	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 RECEIVED JUL 25 1988 OIL CON. DIV. XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX						
1											
2											
3											
4											
5											
P _c 1122 P _c ² 1,258,884 NO. P ₁ ² P _w ² P ₁ ² - P _w ² (1) $\frac{P_c^2}{P_1^2 - P_w^2} = 1.1176$ (2) $\left[\frac{P_c^2}{P_1^2 - P_w^2} \right]^n = 1.0869$											
1		364	132,496	1,126,388							
2											
3											
4											
5											
AOF = Q $\left[\frac{P_c^2}{P_1^2 - P_w^2} \right]^n = 1185$											
Absolute Open Flow 1185 Mcfd @ 15.025					Angle of Slope @			Slope, n 0.75			
Remarks: 2 BBLS oil at the beginning then heavy mist of water at the last very light mist.											
Approved By Division				Conducted By: Bruce Voiles				Calculated By: John C. Rector			
								Checked By:			