

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date Aug. 23, 1983							
Company C. & E. Operators, Inc.			Connection Not connected								
Pool Blanco Mesaverde			Formation Mesaverde								
Completion Date 8-23-83		Total Depth 4930		Plug Back TD 4878 COD=4840							
				Elevation 5758 Gr.							
Farm or Lease Name FEE											
Csg. Size 7"	Wt. 23#	d	Set At 4924	Perforations: From 3069 To 4780							
Tbg. Size 2-3/8"	Wt. 4.7#	d	Set At 4537	Perforations: From Open end To Pin sub							
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At -							
Producing Thru Tubing		Reservoir Temp. °F #		Baro. Press. - P _a Est. 12.0							
L		H	Gg Est. 0.60	% CO ₂	% N ₂						
				% H ₂ S	Prover CN						
				Meter Run	Taps						
FLOW DATA TUBING DATA CASING DATA											
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	7 days						1077		1077		-
1.	2"X3/4" CN			323		65	323		792		3 hrs.
2.											
3.											
4.											
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure, CN- P _m psia	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd				
1	12.365		335	0.9952	1.0	1.023	4,217				
2.											
3.											
4.											
5.											
NO.	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						
1.											
2.											
3.											
4.											
5.											
P _c 1089 P _c ² 1,185,921 NO P _t ² P _w P _w ² P _c ² - P _w ²					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.198$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.805$						
1	112,225	804	646,416	539,505							
2											
3											
4											
5											
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4217 \times 1.805 = 7,612$											
Absolute Open Flow 7,612					Mcf @ 15.025		Angle of Slope @		Slope, n 0.75		
Remarks: Medium spray of fracture water & condensate observed during last 2 1/2 hrs. of test. Flared to test.											
Approved By Division			Conducted By: J. Heller			Calculated By: J. Heller			Checked By:		