

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

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Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4/14-15/77							
Company BELCO PETROLEUM CORP.				Connection To AIR							
Pool MORROW				Unit							
Completion Date 4-14-77		Total Depth		Elevation 3817							
Csg. Size 5 1/2"		Set At 17.0#		Perforations: From 13,598 To 14,056							
Tng. Size 2 2/8"		Set At 4.6#		Perforations: From OPEN ENDED							
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 13,887							
Producing Thru TUBING		Reservoir Temp. °F 208		Baro. Press. - P _a 13.2							
L 14007		H 14007		Cg 0.6765							
Gg 0.94		% CO ₂ 0.94		% N ₂ 0.55							
% H ₂ S -0-		Prover		Meter Run 4"							
Taps FLANGE		State N.M.		County LEA							
FLOW DATA											
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.	4"	X	1.50"	57.0	9.0	71	180.0	64	19/64"		60 MIN
2.											
3.	4"	X	1.50"	61.0	4.0	90	100.0	61	25/64"		18.5 HRS
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	EST Super Compress. Factor, F _{pv}	Rate of Flow Q, Mscf				
1.	10.84	25.14	70.2	.9896	1.216	1.008	330.6				
2.											
3.	10.84	17.23	74.2	.9723	1.216	1.008	222.6				
4.											
5.											
NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	
1.	0.10	531	1.39	.985	49800	N.A.	0.6765	X X X X X X X X	672	381	
2.							X X X X X				
3.	0.11	550	1.44	.985							
4.											
5.											
$P_f = 5662.2$ $P_s^2 = 32061$											
NO.	P_f^2	P_s^2	$P_f^2 - P_s^2$	(1) $\frac{P_f^2}{P_f^2 - P_s^2} = 1.1042$		(2) $\left[\frac{P_f^2}{P_f^2 - P_s^2} \right]^n = 1.1042$					
1.	1739.2	3025	29036								
2.											
3.	1581.2	2500	29561	$Q = \left[\frac{P_f^2}{P_f^2 - P_s^2} \right]^n = 365.0$							
4.											
5.											
Absolute Open Flow				365.0		Mscf @ 15.025					
Angle of Slope				45.0		Slope, n 1.000					
Remarks: BOTTOM HOLE PRESSURE MEASURED WITH AMERADA GAGE @ 14000'											
SEE NOTE ON PAGE 1											
Approved By Commission:		Conducted By:		Calculated By:		Checked By:					
		G.J.P.		R.W.		J.W.W.					

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OIL CONSERVATION Council
Washington, D.C.