

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☐ Initial ☐ Annual ☒ Special						Test Date 8-16-76		76	
Company Belco Petroleum Corporation						Connection Llano, Inc.			
Pool So. Carlsbad - Morrow (Gas)						Formation Morrow			
Completion Date 10-20-72		Total Depth 11650'		Plug Back TD 11648'		Elevation 3112' KB		Farm or Lease Name Union Mead Com.	
Csq. Size 5 1/2	Wt. 20.0	d 4.778	Set At 11648'	Perforations: From 11167' To 11184'		Well No. 1			
Thq. Size 2 7/8"	Wt. 7.9	d 2.323	Set At 11088'	Perforations: From Open To Ended		Unit H	Sec. 8	Twp. 22S	Rge. 27E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual						Packer Set At		County Eddy	
Producing Thru Casing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 13.2		State New Mexico	
L 11176	H	G _g .595	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 3"	Taps Flange	

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	of Flow
1.	3"	x	1.500	760	54"	70°			870	70°	24
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.	11.13	204.3	773.2	.9905	1.296	1.061	3097
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	1.15	530	1.50	.889	Dry Gas	
2.					A.P.I. Gravity of Liquid Hydrocarbons	Dry
3.					Specific Gravity Separator Gas	.595
4.					Specific Gravity Flowing Fluid	X X X X X
5.					Critical Pressure	672 P.S.I.A.
					Critical Temperature	354 R

P _c 2013.2		P _c ² 4053.0		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.238$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.238$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²			
1.		883.2	780.0	3273.0			
2.							
3.							
4.							
5.							

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3834$

Absolute Open Flow 3834 Mcfd @ 15.025 Angle of Slope θ 45° Slope, n 1,000

Remarks:

Approved By Commission:	Conducted By:	Calculated By: C. W. Byrd	Checked By: <i>[Signature]</i>
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