



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 <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 9-8-81		<b>SEP 21 1981</b>					
Company <b>BELCO PETROLEUM CORPORATION</b>				Connection <b>EL PASO</b>				<b>O. C. D.</b>			
Pool <b>N. Loving (Morrow)</b>				Formation <b>MORROW</b>				<b>ARTESIA, OFFICE</b>			
Completion Date 8-19-81		Total Depth 12,824		Plug Back TD 12528		Elevation 3119 K.B.		Form or Lease Name <b>COCHELL <i>Conn</i></b>			
Case Size 7 5/8 5" Liner	Wt. 33.7 22	Gr 6.875 4.044	Set At 9680 12824	Perforations: From 12309 To 12318				Well No. 1			
Thq. Size 2 3/8	Wt. 4.7#	d 1.995	Set At 12,240	Perforations: From <b>OPEN TO ENDED</b>				Unit 1	Sec. Twp. Rge. 30 23S 28E		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple <b>SINGLE</b>				Packer Set At 12240				County <b>EDDY</b>			
Producing Thru <b>TUBING</b>		Reservoir Temp. °F 197 @ 12,214		Mean Annual Temp. °F 60°		Baro. Press. - P <sub>a</sub> 13.2		State <b>NEW MEXICO</b>			
L 12,214	H 12,214	Gg .6032	% CO <sub>2</sub> 1.256	% N <sub>2</sub> 1.230	% H <sub>2</sub> S -0-	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 <sub>w</sub>	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							3522		PKR	CHOKE	72 HRS.
1.	3	x	1.50	340	7"	77	2750	73		10/64	1 Hr.
2.	3	x	1.50	345	14"	80	2221	72		13/64	1 Hr.
3.	3	x	1.50	345	22"	81	1640	72		16/64	1 Hr.
4.	3	x	1.50	350	28"	83	966	73		22/64	1 Hr.
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Flow Temp. Factor Ft.	Gravity Factor Fg	Super. Compress. Factor, Fpv	Rate of Flow Q, Mcfd				
1	11.13	49.72	353.2	.9840	1.288	1.027	720				
2	11.13	70.82	358.2	.9813	1.288	1.026	1022				
3	11.13	88.77	358.2	.9804	1.288	1.026	1280				
4	11.13	100.84	363.2	.9786	1.288	1.026	1451				
5											
NO.	R <sub>g</sub>	Temp. °R	T <sub>g</sub>	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.		A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.				
1	.523	537	1.52	.949	Specific Gravity Separator Gas _____		X X X X X X X X X				
2	.531	540	1.53	.950	Specific Gravity Flowing Fluid _____		X X X X X				
3	.531	541	1.53	.950	Critical Pressure _____ P.S.I.A.		P.S.I.A.				
4	.538	543	1.54	.950	Critical Temperature _____ R		R				
5											
P <sub>c</sub> * 3506.5 P <sub>c</sub> <sup>2</sup> 12,296											
NO.	P <sub>t</sub> <sup>2</sup>	P <sub>w</sub>	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$					
1		2763	7634	4662.	1.11185	1.08921					
2		2272.1	5162	7134.							
3		1730.2	2994	9302.							
4		1112.0	1237	11059.							
5											
Absolute Open Flow <u>1,580</u> Mcfd @ 15.025				Angle of Slope $\theta$ <u>51° 08</u>				Slope, n <u>.80594</u>			
Remarks: _____											
Approved By Commission:			Conducted By: <b>W.S.</b>			Calculated By: <b>M.K.</b>			Checked By: <b>M.K.</b>		