

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

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Type Test ☒ Initial ☐ Annual ☐ Special		MAR 2 1977		Test Date 2-16-77		FEB 28 1977 U.S. GEOLOGICAL SURVEY ARTESIA, NEW MEXICO	
Company BELCO PETROLEUM CORP.		O.C.C. ARTESIA, OFFICE		To AIR			
Well UN-DESIGNATED		MORROW		Unit			
Completion Date 2-16-77		Total Depth 10,937		Ring Block TD 10,896		Elevation 3600.0 GR.	
Form or Lease Name FED. "RV" 4		Well No. 1		Unit O		Sec. Twp. Rge. 4 22S 25E	
Casing Size 5 1/2"		WT. 17#		Set At 4,892'		Perforations From 10,440' To 10,800'	
Tubing Size 2 3/8"		WT. 4.7#		Set At 1,995'		Perforations From OPEN ENDED	
Type Well - Single - Brdhead - G.O. or G.O. Multiple SINGLE				Packer Set At 10,252'		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 179 @ 10,620'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State NEW MEXICO		Prover 10620		Meter Run 10620		Positives POSITIVE CHOKES	
H 10620		Gg 0.5909		% CO ₂ 0.78		% N ₂ 0.33	
% H ₂ S -0-		Prover		Meter Run		Positives	

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
SI	POSITIVE CHOKES						3309.0		PACKER		24 HRS.
1.	10/64			3072.0		70	3072.0	70			60 MIN.
2.	12/64			3004.0		73	3004.0	73			60 MIN.
3.	14/64			2747.0		74	2747.0	74			60 MIN.
4.	16/64			2470.0		74	2470.0	74			60 MIN.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd
1	0.4173		3085.2	.9905	1.301	1.124	1865
2	0.6101		3017.2	.9877	1.301	1.124	2659
3	0.8419		2760.2	.9868	1.301	1.131	3374
4	1.112		2483.2	.9868	1.301	1.135	4024
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	TSTM	Mcfd/bbl.
1	4.56	530	1.50	.792	A.P.G. Gravity of Liquid Hydrocarbons		Deg.
2	4.46	533	1.51	.792	Specific Gravity Separator Gas	0.5909	XXXXXXX
3	4.08	534	1.51	.782	Specific Gravity Flowing Fluid	XXXXXX	
4	3.67	534	1.51	.776	Critical Pressure	676	P.S.I.A.
5					Critical Temperature	353	R

P _r 4229.2		P _s 17836		(1) $\frac{F_f^2}{F_s^2 - F_s^2} = 2.614$		(2) $\left[\frac{F_f^2}{F_s^2 - F_s^2} \right]^n = 1.939$	
NO.	F _f	F _s	F _s	F _f	F _s	F _f	F _s
1	9518	3950.2	15604	2282			
2	9103	3862.2	14917	2969			
3	7619	3580.2	12818	5068			
4	6166	3323.2	11044	6842			
5							

Absolute Pressure		7303		Angle of Slope		55.4°	
Slope, n		0.689		Bottom Hole Pressure		MEASURED WITH AMERADA GAUGE @ 10,620 FEET	
Reported by		G.J.P.		Checked by		R.L.W.	
Reported by		J.W.W.		Checked by		J.W.W.	