

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 1-20-82		FEB 1 1982	
Company Belco Petroleum Corp.				Connection El Paso Nat. Gas Co.			
Pool Loving North Undersig. Atoka				Formation Atoka & Morrow		Unit O. C. D.	
Completion Date 11-18-82				Total Depth 12,876		Packer Back TD 12,290	
Elevation 3040 K.B				Farm or Lease Name Kimbeley			
Csg. Size 7 5/8"		Wt. 33.7#		Set At 12,875		Perforations 11,300 to 11,360	
Tbg. Size 2 7/8"		Wt. 23.0		Set At 11,174		Perforations 11,657 to 12,758	
						Unit Soc. Twp. Rge. C 21 23S 28E	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple SINGLE				Packer Set At 11,174		County EDDY	
Producing Thru TUBING				Reservoir Temp. °F 182° @ 11,100		Mean Annual Temp. °F 60°	
				Baro. Press. - P _a 11,174		State New Mexico	
L 11,100		H 11,100		G _g .6186		% CO ₂ .756	
						% N ₂ 3.15	
						% H ₂ 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 _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI	S.I.						2373		PKR	CHOKE	24 Hrs.
1.	3"	X	.500	320	7"	73°	1793	65°		2/64	1 Hr.
2.	3"	X	.500	320	10"	78°	1252	65		3/64	1 Hr.
3.	3"	X	.500	320	4"	80°	500	65		6/64	1 Hr.
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	1.183	48.29	333.2	.9877	1.272	1.027	74
2	1.183	57.72	333.2	.9831	1.272	1.026	88
3	1.183	36.51	333.2	.9813	1.272	1.025	55
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	T.S.T.M.	Mcf/bbl.
1.	.495	533	1.50	.949	A.P.I. Gravity of Liquid Hydrocarbons		Deg.
2.	.495	538	1.51	.950	Specific Gravity Separator Gas	.6186	XXXXXXXXXX
3.	.495	540	1.52	.951	Specific Gravity Flowing Fluid	XXXXXX	
4.					Critical Pressure	673	P.S.I.A.
5.					Critical Temperature	356	R

P _c 4576 P _c ² 20,940		(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 1.8750$		(2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1.3693$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1		4142	17156	3784	
2		3798	14425	6515	
3		3126	9772	11168	
4					
5					

Absolute Open Flow 75. Mcfd @ 15.025		Angle of Slope 63.5		Slope, n .5000	
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Remarks: Due to rapid well decline the A.O.F. is less than second reduce rate.			
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Approved By Commission:	Conducted By: W.S.	Calculated By: M.K.	Checked By: M.K.
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