

**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 12-3-73		DEC 21 1973	
Company Belco Petroleum Corp.			Connection El Paso Natural Gas		O. C. C. ARTESIA, OFFICE
Pool Undesignated			Formation Strawn		Unit
Completion Date 11-1-72		Total Depth 11650'		Plug Back TD 11648'	Elevation 3112' KB
Farm or Lease Name Union Mead Com		Well No. 1		Well No.	
Csg. Size 5 1/2"	Wt. 20.0	d 4.778	Set At 11648'	Perforations: From 10292' To 10317'	
Tbg. Size 2 7/8"	Wt. 7.9	d 2.323	Set At 11088'	Perforations: From Open To ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual			Packer Set At 11050'		County Eddy
Producing Thru Casing		Reservoir Temp. °F 170		Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2
State New Mexico		Prover -		Meter Run 3"	Taps Flange
L 10305	H 10305	Gg 0.7001	% CO ₂ -	% N ₂ 0.83	% H ₂ S -

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							1808.0	52	Packer	Choke	53.0 Hrs
1.	3" x	1.75"	650.0	16.0	80	1250.0	58		18/64"	1.0 Hrs	
2.	3" x	1.75"	675.0	7.0	80	1285.0	60		14/64"	1.0 Hrs	
3.	3" x	1.75"	675.0	4.0	77	1323.0	61		12/64"	1.0 Hrs	
4.	3" x	1.75"	675.0	1.0	76	1400.0	64		8/64"	1.0 Hrs	
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	15.61	103.01	663.2	0.9813	1.195	1.073	2023
2	15.61	69.40	668.2	0.9813	1.195	1.074	1364
3	15.61	51.70	668.2	0.9840	1.195	1.076	1021
4	15.61	25.85	668.2	0.9850	1.195	1.076	511.1
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	0.99	540	1.38	0.868	97.581	
2	1.00	540	1.38	0.867	65.8	
3	1.00	537	1.37	0.864		
4	1.00	536	1.37	0.864		
5						

NO.	P _r ²	P _w ²	R _r ²	R _w ²	(1) $\frac{P_c^2}{P_r^2 - R_w^2} = 1.9271$	(2) $\left[\frac{P_c^2}{P_r^2 - R_w^2} \right]^n = 1.9271$
1	1263.2	1267.5	1595.7	1721.1		
2	1298.2	*	1685.3	1631.5		
3	1336.2	*	1785.4	1531.4		
4	1413.2	*	1997.1	1319.7		
5						

Absolute Open Flow		Mcf/d @ 15.025		Angle of Slope @ 45.0°		Slope, n 1.000 Limited	
3899							

Remarks: * Friction Negligible-Note attached calculation sheet on high rate of flow			
Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	COLEMAN PET.CO.	R.WEST	JOE A. COLEMAN