

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

Form C-122
Revised 9-1-65

Type Test ☐ Initial ☐ Annual ☐ Special										Test Date 9-13-74	
Company Belco Petroleum Corp.					Connection None						
Pool South Salt Lake					Formation Morrow					Unit	
Completion Date 8-1-74			Total Depth 13708'		Plug Back TD 13658		Elevation 3682KB		Farm or Lease Name Bass Federal		
Csg. Size 5 1/2	Wt. 16.87	d 4.892	Set At 13708	Perforations: From 13221 To 13399				Well No. 2			
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 13163	Perforations: From open ended				Unit Sec. Twp. Rge. 0 30 20 33			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single										Packer Set At 13163	
Producing Thru Tubing		Reservoir Temp. °F 188 13110		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		County Lea			
L 1.3313		H -		G _g 0.668		% CO ₂ 0.612		% N ₂ 0.551		% H ₂ S 0.000	
						Prover		Meter Run X		Taps F	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
1.	3 8/64	1.875	110	23	52	2492	59		Packer		72.0
2.	3 7/64	1.250	110	20	56	2762	64				2.0
3.	3 6/64	1.250	110	10	55	3080	65				1.0
4.	3 5/64	1.000	100	11	54	3362	66				1.0
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.	18.29	53.24	123.2	1.008	1.224	-	1201.5
2.	7.577	49.64	123.2	1.004	1.224	-	462.2
3.	7.577	35.10	123.2	1.005	1.224	-	327.2
4.	4.789	35.31	113.2	1.006	1.224	-	208.2
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	0.18	512	1.37	-	23.904	50.8	0.668	XXXXXX	673	374
2.	0.18	516	1.38	-						
3.	0.18	515	1.38	-						
4.	0.17	514	1.37	-						
5.										

P _c 6113.2 P _c ² 37371.2				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1	-	3044.2	9267.2	28104.0
2	-	5207.2	27114.9	10256.3
3	-	5497.2	30219.2	7152.0
4	-	5733.2	32869.6	4501.6
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.330$$

$$Q_{AOF} = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1574$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.310$$

Absolute Open Flow 1574 Mcfd @ 15.025	Angle of Slope 46° 35'	Slope, n 0.946
Remarks: BHP @ (-9708) 13310' Used for Pressure Calculations		

Approved By Commissioner 	Conducted By Coleman Petroleum	Calculated By Joe A. Coleman	Checked By Joe A. Coleman
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