

NEW XICO 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 3-22-73		JUL 12 1973	
Company Belco Petroleum Corp.				Connection NONE				
Pool Undesignated				Formation MORROW GAS				Unit D.C.C.
Completion Date 3-22-73		Total Depth 11650'		Plug Back TD 11622'		Elevation 3151' GL		Farm or Lease Name UNION MEAD
Csq. Size 4 1/2 ***	Wt. 13.5	d 3.920	Set At 11642'	Perforations: From 11420' To 11608'		Well No. 3		
Tbg. Size 2 7/8	Wt. 6.50	d 2.441	Set At 8580'	Perforations: From OPEN To ENDED		Unit Sec. Twp. Rge. J 5 22s 27e		
Type Well - Single - Bradenhead - G.G. or G.O Multiple Single				Packer Set At 8590'		County Eddy		
Producing Thru Tubing		Reservoir Temp. °F 189° 11514'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico
L 11514'	H -	G _g 0.577	% CO ₂ 0.96	% N ₂ 0.17	% H ₂ S 0.00	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. h _w	Temp. °F	Press. p.s.i.g. DWT	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							3553		PACKER		14.0 Hrs
1.	4" 15/64	2.0	620	51	86	2727	74				2.0
2.	4" 13/64	2.0	620	37	86	2908	75				2.0
3.	4" 11/64	2.0	620	28	87	3056	75				1.0
4.	4" 9/64	2.0	620	19	91	3175	75				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	19.81	179.70	633.2	0.9759	1.316	1.039	4750.2
2	19.81	153.07	633.2	0.9759	1.316	1.039	4046.2
3	19.81	133.17	633.2	0.9750	1.316	1.039	3516.9
4	19.81	109.69	633.2	0.9715	1.316	1.038	2883.8
5.							

NO.	P _r	Temp. °R	T _r	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.	0.95	546	1.60	0.927	---	---	0.577	XXXXXXX	665	342
2.	0.95	546	1.60	0.927						
3.	0.95	547	1.60	0.927						
4.	0.5	551	1.61	0.929						
5.										

NO.	P _r ²	P _w *	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1	-	3594.2	12918.3	7686.0	2.681	1.985
2	-	3794.2	14396.0	6200.3		
3	-	3960.2	15683.2	4921.1		
4	-	4102.2	16828.0	3766.3		
5						

Absolute Open Flow = **9429** Mcfd @ 15.025 Angle of Slope @ **55° 13'** Slope, n **0.695**

Remarks: * BHP @ (-8363') 11514' used for Pressure calculations
 ** Top Liner @ 8607'

Approved By Commission:	Conducted By: COLEMAN PET.ENG.	Calculated By: JOE A. COLEMAN	Checked By: JOE A. COLEMAN
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