

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

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C-122

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HOUSTON OFFICE

Type Test ☒ Initial ☐ Annual ☒ Special				Test Date 4-2-76		HOUSTON OFFICE	
Company Belco Petroleum Corp.				Connection Llano, Inc.			
Pool South Carlsbad 714091200				Formation Morrow		Unit	
Completion Date 7-8-75		Total Depth 11,726'		Plug Back TD 11,638'		Elevation 3136.5'	
Farm or Lease Name Martin Com.		Well No. 1		Csg. Size 5 1/2"		Wt. 17#	
Set At 11,726'		Perforations: From 11,356' To 11,364'		d 4.892		Set At 11,726'	
Tbg. Size 2 7/8"		Wt. 6.5#		d 2.259		Set At 11,297'	
Perforations: From 11,393' To 11,396'		From 11,404' To 11,427'		Unit F		Sec. 20	
Twp. 22-S		Rge. 27-E		County Eddy		State New Mexico	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11297'		Prover 11297'	
Producing Thru Tubing		Reservoir Temp. °F 192° @ 11,000'		Mean Annual Temp. °F 13.2		Baro. Press. - P _a	
L 11297'		H 11297'		Gg .5718		% CO ₂ .619	
N ₂ .270		H ₂ S -		Prover 4 x 2.250		Meter Run Flange	
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Duration of Flow
SI							24 Hrs
1.	4 x 2.250			410	78	39	1 Hour
2.	4 x 2.250			390	42	63	1 Hour
3.	4 x 2.250			370	22	69	1 Hour
4.	4 x 2.250			370	9	73	1 Hour
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	25.64	181.68	423.2	1.021	1.323	1.030	6481
2	25.64	130.13	403.2	.9981	1.323	1.024	4512
3	25.64	91.81	383.2	.9915	1.323	1.022	3156
4	25.64	58.73	383.2	.9859	1.323	1.021	2005
5							
NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.		
1	.63	499	1.54	.9422	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.		
2	.59	523	1.61	.9541	Specific Gravity Separator Gas .5718 XXXXXXXXXX		
3	.57	529	1.63	.9573	Specific Gravity Flowing Fluid XXXXX		
4	.57	533	1.65	.9595	Critical Pressure 675 P.S.I.A. P.S.I.A.		
5					Critical Temperature 324 °R °R		
P _c 4376 P _c ² 19149					(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 5.13$		
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 2.57$		
1		3902	15225	3924	AOF = Q $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 16656.$		
2		4131	17090	2059			
3		4241	17986	1163			
4		4302	18507	642			
5							
Absolute Open Flow 16656 Mcfd @ 15.025					Angle of Slope 26.7°		O.C.C. 302
Remarks: Pw - Were taken from Amerada Gauge RPG - 3 Ser. No. 18149							
Approved By Commission:		Conducted By: LARRY DAVIS		Calculated By: LARRY DAVIS		Checked By: C.W. Byrd	

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