

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 5-9-83	
Company Ladd Petroleum Corp.				Connection		
Pool Basin Dakota				Formation Dakota		Unit
Completion Date 4-28-83		Total Depth 7000'		Plug Back TD 6895' RKB		Elevation 6121 GL
Csg. Size 5 1/2"		Wt. 15.5	d 4.950	Set At 6966'	Perforations: From 6665 To 6734'	
Tbg. Size 1 1/2"		Wt. 2.76	d 1.610	Set At 6688'	Perforations: From open ended To	
Type Well - Single - Brodenhead - G.G. or G.O. Multiple G-G dual				Packer Set At 6590' RKB		Well No. 110E
Producing Thru tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _g
L		H	Gg .65 est.	% CO ₂	% N ₂	% H ₂ S
Prover		Meter Run		Taps		
FLOW DATA				TUBING DATA		CASING DATA
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F
SI						
1.						
2.						
3.	5/8" pos. choke		150		74°	
4.						
5.						
RATE OF FLOW CALCULATIONS						
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}
1						
2.						
3.	8.5417		162	.9868	.9608	1.015
4.						
5.						
NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
2.					Specific Gravity Separator Gas _____	
3.					Specific Gravity Flowing Fluid _____	
4.					Critical Pressure _____ P.S.I.A.	
5.					Critical Temperature _____ °R	
$P_c = 1437$ $P_c^2 = 2,064,969$					RECEIVED OIL CON	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0344$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0257$	
1						
2						
3	26.244		68,747	1,996,222	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1366$	
4						
5						
Absolute Open Flow 1366				Mcf @ 15.025		Angle of Slope @ _____
Slope, n .75						
Remarks:						
Approved By Division		Conducted By: Hall		Calculated By: Jacobs		Checked By:

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JUN 8 1983

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SANTA FE