

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5-10-84			
Company Ladd Petroleum Corporation				Connection					
Pool Basin Dakota				Formation Dakota				Unit	
Completion Date 5-10-84		Total Depth 6995'		Plug Back TD 6938'		Elevation 6091' RKB		Farm or Lease Name Lindrith	
Csq. Size 4 1/2	Wt. 10.5	d 4.052"	Set At 6990'	Perforations: From 6601' To 6705'				Well No. 19E	
Tbg. Size 1 1/2	Wt. 2.9	d 1.610"	Set At 6663'	Perforations: From Open ended To				Unit Sec. Twp. Rge. I 9 26N 7W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas						Packer Set At		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	G _g 0.65 est	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps	

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	
1.							1310		2110		
2.	5/8" positive choke			92		74			625		3 hrs.
3.											
4.											
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.							
2.	7.522		104	0.9868	1.240	1.012	969
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P_c 2122 P_c² 4,502,884

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.				
2.		637	405,769	4,097,115
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0990$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0734$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1040$

Absolute Open Flow 1040 _____ Mcfd @ 15.025	Angle of Slope ϕ _____	Slope, n _____
Remarks: _____		
Approved By Division	Conducted By: Tornes	Calculated By: Tornes
		Checked By:



EFTTELLER, INC.
reservoir engineering data
MIDLAND, TEXAS

Page 1 of 1
File 2-15362-TS

TEMPERATURE SURVEY LOG

