

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5-17-84			
Company Ladd Petroleum Corporation				Connection					
Pool Basin Dakota				Formation Dakota				Unit	
Completion Date 5-3-84		Total Depth 7000'		Plug Back TD 6876'		Elevation 6124' RKB		Farm or Lease Name Lindrith	
Seq. Size 4 1/2"	Wt. 10.5	d 4.052"	Set At 6975'	Perforations: From 6591' To 6693'				Well No. 29E	
Tbg. Size 1 1/2"	Wt. 2.9	d 1.610"	Set At 6652'	Perforations: From open ended To				Unit K	Sec. Twp. Rge. 9 26N 7W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At None		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg 0.650 est	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration	
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	of Flow
SI							1685		2230		
1.											
2.				120		73			730		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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1							
2	7.522		132	0.9877	1.240	1.012	1231
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 2230		P _c 4,972,900	
NO.	P _t ²	P _w	P _w ²
1			
2		742	550,564
3			
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.1245$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{n \cdot 75} = 1.092$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1344$$

Absolute Open Flow	1344	Mcfd @ 15.025	Angle of Slope θ _____	Slope, n _____
--------------------	------	---------------	-------------------------------	----------------

Remarks: _____

Approved By Division	Conducted By: Tornes	Calculated By: Tornes	Checked By:
----------------------	-------------------------	--------------------------	-------------

