

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 6-13-80				
Company Ladd Petroleum Corp.				Connection					
Pool Basin				Formation Dakota				Unit	
Completion Date 5-20-80		Total Depth 6621'		Plug Back TD 6548'		Elevation 5945' GL		Farm or Lease Name Kutz	
Coq. Size 4-1/2"	Wt. 10.5#	d	Set At 6630.68'	Perforations: From 6332 To 6499		Well No. 1E			
Thq. Size 1-1/2"	Wt. 2.9#	d	Set At 6450' RKB	Perforations: From Open To End		Unit P		Sec. 22	Twp. 28N
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single - Gas				Packer Set At		County San Juan			
Producing Thru tbg		Reservoir Temp. °F θ		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg	% 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
SI							875		940		7 days
1.											
2.											
3.	5/8" Pos Choke			35		65			490		3 hrs
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}	Rate of Flow Q, Mcfd
1							
2							
3	8.5417		47	.9952	.9008	1.000	384
4							
5							

NO.	P _f	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 _____ XXXXXXXXXX	
3					Specific Gravity Flowing Fluid _____ XXXXX	
4					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.	
5					Critical Temperature _____ °R _____ °R	

P _c 952	P _c ² 906,304		
NO.	P _i	P _w	P _c ² - P _w ²
1			
2			
3		502	252,004
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3852$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 490$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2768$

Absolute Open Flow	490	Mcf @ 15.025	Angle of Slope θ	Slope, n
Remarks				

Approved By: Division	Conducted By: _____	Calculated By: _____	Checked By: _____
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