

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

EXT. 0-111
REV. 1-2-61

☒ Initial ☐ Annual ☐ Special		Test Date 3/30/80	
Company Ladd Petroleum Corp.		Connection	
Pool Basin, Dakota		Formation Dakota	
Completion Date 3-21-80	Total Depth 6020	Plug Back TD 5950	Elevation 5535 GL
Form of Lease Name Aztec		Well No. 15-2-R	
Casing Size 4-1/2"	Wt. 10.5#	C 4.052	Set At 6065 KB
Perforations From 5775 To 5911		Well No.	
Tubing Size 1-1/2"	Wt. 2.9#	C 5895	Set At 5895
Perforations From Open To End		Well No.	
Type Well - Single - Blindness - G.C. or G.C. Multiple Single - Gas		Pooler Set At County San Juan	
Producing thru 580		Reservoir Temp. °F 6	
Mean Annual Temp. °F 6		State New Mexico	
L	H	Gg .65	% CO ₂
% N ₂	% H ₂ S	Proves	Meter Run Taps

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prove 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.							1540		1552		9 days
2.											
3.	3/4" Pos Choke			78		66°			765		3 hrs
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super. Compress. Factor, F _{pv}	Rate of Flow Q, Mgd
1.							
2.							
3.	12.365		90	.9943	.9608	1.000	1063
4.							
5.							

NO.	P _m	Temp. °F	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure P.S.I.A.	Critical Temperature °R
1.									
2.									
3.									
4.									
5.									

NO.	P _m	P _u	P _c	P _c - P _u	(1) $\frac{P_c^2}{P_c^2 - P_u^2} =$	(2) $\frac{P_c^2}{P_c^2 - P_u^2} =$
1.	1364					
2.						
3.		777	603,729	1,842,367		
4.						
5.						

$ACF = C \left[\frac{P_c^2}{P_c^2 - P_u^2} \right]^n = 1315$

$\frac{P_c^2}{P_c^2 - P_u^2} = 1.3277$

$\frac{P_c^2}{P_c^2 - P_u^2} = 1.2369$

Absolute Open Flow 1315	Mgd @ 15.025	Angle of Slope @	Slope, n .75
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Approved By Commission:	Conducted By:	Calculated By:	Checked By:
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