

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

Form C-122
Revised 4-1-65



Type Test: ☒ Initial ☐ Annual ☐ Special		Test Date: 4-2-80	
Company: Ladd Petroleum Corp.		Connector:	
Pool: Basin Dakota		Formation: Dakota	
Completion Date: 3-10-80	Total Depth: 6510'	Plug Back TD: 6407'	Elevation: 5696'
Form or Lease Name: Fed A		Well No.: 3E	
Csg. Size: 4-1/2"	Wt.: 10.5#	Set At: 6511'	Perforations: From 6294 To 6403
Tub. Size: 1-1/2"	Wt.: 2.9#	Set At: 6348'	Perforations: From Open To End
Type Well - Single - Brdenhead - G.C. or G.C. Multiple		Packer Set At:	County: San Juan
Producing Thru: CSG		Reservoir Temp. °F: 6	Mean Annual Temp. °F:
State: New Mexico		State: New Mexico	
L	H	CO ₂	% H ₂ S
.65			

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	
1.							1505	1515	7 days
2.									
3.	5/8" Pos Choke			290		70	310		3 hrs
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, F _{pv}	Rate of Flow Q, Mhd
1.							
2.							
3.	8.5417		302	.0005	.9608	1.020	2504
4.							
5.							

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

NO.	P _r	P _w	P _w ²	P _c ² - P _w ²
1.				
2.				
3.	322	103684	2228045	
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0465$

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2590$

(2) $\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2} = 1.0347$

Absolute Open Flow: 2590	Mhd @ 15.025	Angle of Slope @	Slope, n: .75
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Remarks: This well was tested through the csg annulus

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
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