

3 NMOCD

1 Clyde Phillips, Ladd 1 George Mayfield, Ladd DE

1 File

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test		☒ Initial		☐ Annual		☐ Special		Test Date		9-14-82	
Company				Connection							
Ladd Petroleum Corp.											
Pool				Formation				Unit			
Basin Dakota				Dakota							
Completion Date		Total Depth		Plug Back TD		Elevation		Farm or Lease Name			
9-1-82		7381'		7333'		6504' GL		Lindrith			
Csq. Size	Wt.	d	Set At	Perforations:		Well No.					
5 1/2"	15.5#		7376'	From 7115 To 7224		13M					
Tbg. Size	Wt.	d	Set At	Perforations:		Unit		Sec.		Twp.	
1 1/2"	2.9#	1.610	7158	From open end To		0		3		26N 7W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple						Packer Set At		County			
singel - gas								Rio Arriba			
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State			
tbg.								NM			
L	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover		Meter Run		Taps	
		.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	Press. p.s.i.g.	Temp. °F	
SI							2100		2150		7 days
1.											
2.											
3.	5/8" pos. choke						190	60°	725		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		202	1.000	.9608	1.021	1691
4.							
5.							

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

P _c	2162	P _c ²	4,674,244
NO.	P _t ²	P _w	P _w ²
1.			
2.			
3.	737	543,169	4,131,075
4.			
5.			

(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.1315$ (2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^{n \cdot 75} = 1.0971$

for $Q = \left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1855$

Absolute Open Flow	1855	Mcf/d @ 15.025	Angle of Slope	Slope, n	.75
Remarks:					
Approved by Division					
Conducted By:		Calculated By:		Checked By:	