STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

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: [XX] Initial [ ] Annual [ ] Special			Test Date: 7-23-84	
Company: James L. Ludwick	Connection			
Pool: Undesignated	Formation: Mesaverde		Unit	
Completion Date: 7-16-84	Total Depth: 2105	Plug Back TD: 2050	Elevation	Farm or Lease Name: Ludwick
Csg. Size: 4.500 / Wt.: 10.5 / d: 4.052 / Set At: 2105		Perforations: From 1844 To 1957		Well No.: 1
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 1950		Perforations: From Open To Ended		Unit: / Sec.: 7 Twp.: 19N Rge.: 5W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: None		County: McKinley
Producing Thru: Tbg.	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a: 12 psi	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.650						

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI	7 days					720		720		
1.	2 inch	.750	22			22	60°	361		3 hours
2.										
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	12.3650		34	1.000	.9608	1.001	404
2.							
3.							
4.							
5.							

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NO.	P_t	Temp. °R	T_t	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXX
Specific Gravity Flowing Fluid _____ XXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 732 P_c^2 535824

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		373	139129	396695
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3507$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2529$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 506$

Absolute Open Flow 506 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
	James Ludwick	Joe Elledge	James Ludwick