Submit in duplicate to appropriate district office. See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources

Form C-122
Revised October, 1999

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: Gruy Petroleulm Mgt.						Lease or Unit Name: Annie Myers "B"		
Type Test: x Initial ☐ Annual ☐ Special						Test Date: 7-19-01	Well No.: 9	
Completion Date: 6/20/01		Total Depth: 3945		Plug Back TD: 3280		Elevation: 3338 GL	Unit Ltr. - Sec. - TWP – Rge.: D- S-13-T24- R36	
Csg. Size: 5 ½	Wt.: 15.5	d	Set At: 3868	Perforations: From: 3036 To: 3060			County: Lea	
Thg. Size: 2 7/8	Wt.: 6.5	D: 2.441	Set At: 3131	Perforations: From: Bull Plug MA To:			Pool: Langlie Mattix	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: SINGLE				Packer Set At: None			Formation: Yates/7RV/Queen	
Producing Thru: CASING	Reservoir Temp. °F: 109 @ 3500		Mean Annual Temp. °F: 60	Baro, Press - P_a: 13.2			Connection: Sid Richardson	
L: 3036	H: 3036	Gg: .693	%CO_2: 1.3	%N_2: 4.0	%H_2S:	Prover:	Meter Run: 4.026	Taps: Flange

	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	24 hour SI				Rod Pump	100	500		
1.	4.026 X 1.500	9	11.6	100	Rods	100	18		24 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.	10.84	16.05	22.2	.9636	1.201	Nil	201
2.							
3.							
4.							
5.							

No.	P_r	Temp. °R	T_r	Z
1.	.05	560	1.47	Nil
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A. P. I. Gravity of Liquid Hydrocarbons 29.3 @ 60 Deg.
Specific Gravity Separator Gas .693 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 690 P.S.I.A. P.S.I.A.
Critical Temperature 380 R. R

P_c 513 P_c^2 26.3

No.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		21.2	.500	25.8
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = 1.019 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1.019

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]$ = 205

Absolute Open Flow 205 Mcfd@ 15.025 | Angle of Slope θ: 45 | Slope, n: 1.00

Remarks: 24 Hour stable flow test. Trace of oil and 9 BBLS of water made during test. A 45 deg. Slope drawn through flow rate.

Approved By Division	Conducted by: Danny Emerson	Calculated By: Reggie Reston	Checked By: