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

Form C-122
Revised October, 1999

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator	NADELL & GUSSMAN PERMAIN		Lease or Unit Name	SHOEBAR "4"

Type Test				Test Date	Well No.
☑ Initial	☐ Annual	☐ Special		9/10/01	1

Completion Date	Total Depth		Plug Back TD	Elevation	Unit Ltr - Sec - TWP - Rge

Csg. Size	Wt.	d	Set At	Perforations: From: 12434 To: 12452	County LEA

Tbg. Size	Wt.	d	Set At	Perforations:	Pool
2 7/8	6.5	2.441	12350	From: To:	

Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE	Packer Set At 12350	Formation

Producing Thru TUBING	Reservoir Temp.°F 200.5	Mean Annual Temp. °F 60	Baro. Press.-P_a 13.2	Connection SALES

L 12350	H 12350	Gg 0.684	%CO_2 5.162	%N_2 1.321	%H_2S N/A	Prover N/A	Meter Run 2.067	Taps FLG

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					640	N/A	PKR	N/A	
1	2.067 X 1.250	110	25	66	400				
2									24 HRS.
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 F_g	Super Compress Factor F pv	Rate of Flow Q. Mcfd
1	8.12	55.5	123.2	0.9943	1.209	1.051	569
2							
3							
4							
5							

No.	P_r	Temp. °R	T_r	Z		
1	0.76	526	1.41	0.906	Gas Liquid Hydrocarbon Ratio	N/A Mcf bbl.
2					A.P. I. Gravity of Liquid Hydrocarbons	N/A Deg.
3					Specific Gravity Separator Gas	0.684 XXXXXXX
4					Specific Gravity Flowing Fluid	XXXXX
5					Critical Pressure	689 P.S.I.A. P.S.I.A.
P_c	653.2	P_c2 426.7			Critical Temperature	373 R. R.

No.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	170.7	419.1	175.7	251
2				
3				
4				
5				

$$(1) \quad \frac{P_c^2}{P_c^2 - P_w^2} = \underline{\quad 1.7 \quad}$$

$$(2) \quad \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{\quad 1.7 \quad}$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{\quad 0.967 \quad}$$

Absolute Open Flow	0.967	Mcfd @ 15.025	Angle of Slope (): 45	Slope n: 1

Remarks: * no condensate made during test.

Approved By Division:	Conducted By:	Calculated By: MERV BUECKER	Checked By: BM