C/S F

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

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

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator				Lease or Unit Name		Test Date	Well No.
GRUY PET. MANG. CO.				ST. "14" COM		11/8/01	2
Type Test: ☑ Initial ☐ Annual ☐ Special							
Completion Date	Total Depth		Plug Back TD			Elevation	Unit Ltr - Sec - TWP - Rge
9/25/01	1200		12178			3318 GL	E 14 19S 29E
Csg. Size / Wt. / d / Set At			Perforations:				County
5 1/2 / 17 / 4.892 / 12200			From: 11846	To: 12052			EDDY
Tbg. Size / Wt. / d / Set At			Perforations:				Pool TURKEY Track Morrow
2 3/8 / 4.7 / 1.995 / 11760			From:	To:			
Type Well-Single-Bradenhead-G.G. or G.O. Multiple			Packer Set At				Formation
SINGLE			11760				MORROW
Producing Thru	Reservoir Temp.°F	Mean Annual Temp. °F	Baro. Press.-P_a				Connection
Tubing	191.6	60	13.2				SALES

L	H	Gg	%CO_2	%N_2	%H_2S	Prover	Meter Run	Taps
11760	11760	0.643	0.74	0.48	N/A	N/A	3.098	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					822	N/A	PKR	N/A	
1	3.098 X 1.500	59	12.9	70	717				1 HR
2	3.098 X 1.500	53	18.4	63	686				1 HR
3	3.098 X 1.500	52	31.1	56	625				1 HR
4	3.098 X 1.500	55	45.3	56	548				1 HR
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							413
2							482
3	TOTAL	FLOW	METER				616
4							758
5							

No.	P_r	Temp. °R	T_r	Z
1				
2				
3	TOTAL	FLOW	METER	
4				
5				

Gas Liquid Hydrocarbon Ratio	N/A		Mcf/bbl.
A.P. I. Gravity of Liquid Hydrocarbons	N/A		Deg.
Specific Gravity Separator Gas	0.643		XXXXXXX
Specific Gravity Flowing Fluid	XXXXX		
Critical Pressure	673	P.S.I.A.	P.S.I.A.
Critical Temperature	368	R.	R

P_c 853.2 P_c^2 728

No.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	533.2	734.6	539.7	188.2
2	488.9	705.5	497.8	230.2
3	407.3	649.6	422	305.9
4	314.9	580.9	337.5	390.5
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.864$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.685$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1277.2$

Absolute Open Flow	1277.2	Mcfd @ 15.025	Angle of Slope ():	50.01	Slope n:	0.8388

Remarks: * NO LIQUID MADE DURING TEST.

Approved By Division:	Conducted By:	Calculated By:	Checked By:
	PRO WELL TESTING	MERV BUECKER	BM