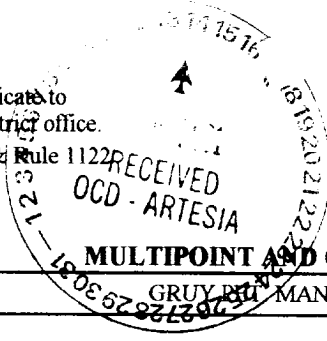


CISF

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 GRUYER MANG. CO.					Lease or Unit Name ST. "14" COM				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 11/8/01		Well No. 2		
Completion Date 9/25/01		Total Depth 1200		Plug Back TD 12178		Elevation 3318 GL		Unit Ltr - Sec - TWP - Rge E 14 19S 29E	
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 12200	Perforations: From: 11846 To: 12052		County EDDY			
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 11760	Perforations: From: To:		Pool TURKEY Track Morrow			
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE					Packer Set At 11760		Formation MORROW		
Producing Thru Tubing		Reservoir Temp. °F 191.6	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2		Connection SALES			
L 11760	H 11760	Gg 0.643	%CO ₂ 0.74	%N ₂ 0.48	%H ₂ S N/A	Prover N/A	Meter Run 3.098	Taps FLG	
FLOW DATA					TUBING DATA			CASING DATA	
No.	Prover Line Size	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						822	N/A	PKR	N/A
1	3.098 X 1.500		59	12.9	70	717			
2	3.098 X 1.500		53	18.4	63	686			
3	3.098 X 1.500		52	31.1	56	625			
4	3.098 X 1.500		55	45.3	56	548			
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	Gas Liquid Hydrocarbon Ratio N/A Mcf/bbl.				
1					A.P. I. Gravity of Liquid Hydrocarbons N/A Deg.				
2					Specific Gravity Separator Gas 0.643 XXXXXX				
3	TOTAL	FLOW	METER		Specific Gravity Flowing Fluid XXXXX				
4					Critical Pressure 673 P.S.I.A. P.S.I.A.				
5					Critical Temperature 368 R. R.				
P _c 853.2 P _{c2} 728									
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $P_c^2 = \frac{1.864}{P_c^2 - P_w^2}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.685$				
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					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: PRO WELL TESTING		Calculated By: MERV BUECKER			Checked By: BM	