

30-025-3939

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 MARBOB				Lease or Unit Name GILES 18 ST.					
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7/10/00		Well No. #1			
Completion Date 7/2/00		Total Depth 12626		Plug Back TD 12250		Elevation			
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 12626	Perforations: From: 12122 To: 12132		Unit Ltr - Sec - TWP - Rge I 15 17-S 35-E			
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 12025	Perforations: From: To:		County LEA			
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At NONE		Formation Atoka			
Producing Thru TUBING		Reservoir Temp. °F 175.3	Mean Annual Temp. °F 60	Baro. Press. -P _a 13.2		Connection SALES			
L 12025	H 12025	Gg 0.689	%CO ₂ 0.741	%N ₂ 1.476	%H ₂ S N/A	Prover N/A	Meter Run 3.068	Taps FLG	
FLOW DATA				TUBING DATA		CASING DATA		Duration of Flow	
No.	Prover Line Size	Orifice x Size	Press p.s.i.g.	Diff. h _w	Temp. °F	Press p.s.i.g.	Temp. °F		Press p.s.i.g.
SI						1950	N/A	1950	N/A
1		3.068 X 1.125	431	10.5	87	1900		1900	
2		3.068 X 1.125	435	20.1	89	1885		1885	
3		3.068 X 1.125	439	39.5	81	1800		1800	
4		3.068 X 1.125	444	100	79	1710		1710	
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								512	
2	GAS VOLUMES		MEASURED	BY	TOTAL	FLOW	METER	711	
3								1007	
4								1618	
5									
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 20.556 Mcf/bbl.				
1					A.P. I. Gravity of Liquid Hydrocarbons 76.6 Deg.				
2	TOTAL	FLOW	METER		Specific Gravity Separator Gas 0.689 XXXXXXXX				
3					Specific Gravity Flowing Fluid N/A XXXXXX				
4					Critical Pressure 671 P.S.I.A. 667 P.S.I.A.				
5					Critical Temperature 379 R. 418 R				
P _c 2124.8 P _{c2} 4514.8					(1) $P_c^2 = 4.33$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.81$ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4546.5$				
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²					
1		2078.3	4319.3	195.5					
2		2039.2	4158.3	356.5					
3		1981.8	3927.5	587.3					
4		1863.6	3473	1041.8					
5									
Absolute Open Flow 4546.5 Mcfd @ 15.025					Angle of Slope (°): 54.76		Slope n: 0.7063		
Remarks: CALCULATED FROM KNOWN BOTTOM HOLE PRESSURES. /WELL MADE 7.8 BBLS OF 76.6 API GRAVITY CONDENSATE DURING TEST.									
Approved By Division:		Conducted By: PRO WELL TESTING		Calculated By: MB		Checked By: BM			

GWW