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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 TMBR/SHARP				Lease or Unit Name Blue Fin 24			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7/11/01		Well No. 1	
Completion Date 6/21/01		Total Depth 13000		Plug Back ID 13275		Elevation	
Casing Size 3 1/2 x 15 1/2		Set At 13000		Perforations From 12904 To 12941		Interval Lea	
Tubing Size 2 7/8		Set At 12463		Perforations		Pool	
Type Well-Single-Gradient-G/O or G/O Multiple single				Packer Set At 12463		Formation CHESTER	
Producing Thru tbg		Reservoir Temp °F 198.6 @ 12463		Mean Annual Temp °F 60		Baro. Press -P _s 13.2	
12463		H 12463		Gg 0.638		%CO ₂ 1.167	
				%N ₂ 0.789		%H ₂ S	
				Prover		Meter Run 3.068	
						laps 0	
FLOW DATA TUBING DATA CASING DATA							
No.	Prover Line Size	Orifice Size	Press p.s.i.g	Diff. In. H ₂ O	Temp °F	Press p.s.i.g	Temp °F
1	3 X 2.000		477	2.56	63	4200	
2	3 X 2.000		449	6.3	42	3900	
3	3 X 2.000		449	9.61	36	3645	
4	3 X 2.000		463	16	30	3210	
5							
RATE OF FLOW CALCULATIONS							
No.	COEFFICIENT (24 Hours)		$\sqrt{L_m P_m}$	Pressure P _m	Flow Temp Factor Ft	Gravity Factor F _g	Super Compress Factor F _{sp}
1	21.32		35.42	490.2	0.9971	1.252	1.048
2	21.32		53.96	462.2	1.018	1.252	1.053
3	21.32		66.65	462.2	1.024	1.252	1.054
4	21.32		87.29	476.2	1.03	1.252	1.061
5							
No.	P _r	Temp °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 29.9 Mol Bbl		
1	0.72	523	1.42	0.911	A.P.L. Gravity of Liquid Hydrocarbons 62 @ 60 Deg		
2	0.68	502	1.36	0.902	Specific Gravity Separator Gas 0.638 XXXXXXXX		
3	0.68	496	1.35	0.901	Specific Gravity Flowing Fluid XXXXXX 0.73		
4	0.7	490	1.33	0.888	Critical Pressure 674 P.S.I.A. 668 P.S.I.A.		
5					Critical Temperature 367 R 401 R		
P ₁ 4642.9 P ₂ 21556.5							
No.	P ₁ ²	P _w	P _w ²	P ₁ ² - P _w ²	(1) $\frac{P_1^2}{P_w^2} = 2.253$ (2) $\left[\frac{P_1^2}{P_w^2 - P_w^2} \right]^n = 1.714$		
1	4454.7	19844.4	1712.1		AOF = Q $\left[\frac{P_1^2}{P_w^2 - P_w^2} \right]^n = 4.364$		
2	4137	17114.8	4441.7				
3	3882.2	15071.5	6485				
4	3462.5	11988.9	9567.6				
5							
Absolute Open Flow 4.364 Mcfd @ 15.025				Angle of Slope (°) 56.44		Slope n 0.6633	
Remarks TEST CALCULATED FROM KNOWN BHPS . WELL PRODUCED 9.75 BBLS CONDENSATE							
Approved By Division		Conducted By SIGNAL WIRE LINE		Calculated By BM		Checked By BM	