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appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources

Form C-122
Revised October, 1999

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator TMBR/Sharp Drilling, Inc.					Lease or Unit Name State "S"				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 8/19/00		Well No 1		
Completion Date 8/18/00		Total Depth 12,740		Plug Back TD 12,724		Elevation 3999		Unit Ltr. - Sec. - TWP - Rge. G-5-17S-35E	
Csg. Size 5-1/2"	Wt. 17#	d 4.892	Set At 12,780	Perforations: From: 12,584 To: 12,594				County Lea	
Thg. Size 3-1/2"	Wt.	d 2.992	Set At 12,545	Perforations: From: To:				Pool	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 12,495		Formation Morrow		
Producing Thru Tubing		Reservoir Temp. °F 179 @ 12545		Mean Annual Temp. °F 60		Baro, Press - P _a 13.2		Connection N/A	
L 12545	H 12545	Gg .622	%CO ₂ 503	%N ₂ 981	%H ₂ S	Prover	Meter Run 4.026	Taps Flg	

FLOW DATA					TUBING DATA		CASING DATA		Duration Of Flow	
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						2990		Pkr		48 hrs
1.	4 x 1.750		150	6.30	84	2605		Pkr		1 hr
2.	4 x 1.750		150	7.84	120	1990		Pkr		1 hr
3.	4 x 1.750		160	10.89	100	1460		Pkr		1 hr
4.	4 x 1.750		160	12.96	100	990		Pkr		1 hr
5.										

RATE OF FLOW CALCULATIONS							
No.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	14.93	32.06	163.2	.9777	1.268	1.013	601
2.	14.93	35.77	163.2	.9469	1.268	1.010	648
3.	14.93	43.43	173.2	.9636	1.268	1.011	801
4.	14.93	47.38	173.2	.9636	1.268	1.011	874
5.							

No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1.	.24	544	1.49	.974	A. P. I. Gravity of Liquid Hydrocarbons Dry		Deg.
2.	.24	580	1.58	.980	Specific Gravity Separator Gas .622		XXXXXXXXXX
3.	.25	560	1.53	.979	Specific Gravity Flowing Fluid XXXXX		
4.	.25	560	1.53	.979	Critical Pressure 671	P.S.I.A.	P.S.I.A.
5.					Critical Temperature 365	R.	R

P _c 3003.2		P _c ² 9019.2	
No.	P _i ²	P _w	P _w ²
1.		2618.2	6856.5
2.		2003.6	4014.5
3.		1474.1	2173.0
4.		1004.9	1009.8
5.			

(1) P_{c2} = 4.170

$\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.226$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.039$

Absolute Open Flow 1.226	Mcf/d @ 15.025	Angle of Slope θ: 63.5	Slope, n: .499
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Remarks: No fluid produced.

Approved By Division	Conducted By: Metering & Testing	Calculated By: BM	Checked By: BM
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