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See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-122
Revised 4-1-1991

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MYCO Industries, Inc.						Lease or Unit Name Carson City					
Test Type ☒ Initial ☐ Annual ☐ Special						Test Date 10/28/01		Well No. 1Y			
Completion Date 10/27/01		Total Depth 11865		Plug Back TD 11865		Elevation 3144' GR		Unit Ltr - Sec - TWP - Rge. S25(E/2)-T21S-R27E			
Csg. Size 5.500	Wt. 17.000	d 4.860	Set At 11865	Perforation: From 11548 To 11553				County Eddy			
Tbg. Size 2.875	Wt. 6.500	d 2.441	Set At 11621	Perforation: From To				Pool U Carlsbad East			
Type Well-Single-Bradenhead-G.G. or G.O. Multiple Initial						Packer Set At 11621		Formation E Carlsbad Morrow			
Producing Thru Tubing		Reservoir Temp. F 196		Mean Annual Temp. F 92		Baro. Pressure		Connection MYCO Pipeline-Duke			
I. 11621	II 11621	Og .601	% CO ₂ 1.01	% N ₂ .23	% H ₂ S	Prover Prover		Meter Run 4"		Taps Pipe	

Flow Data					Tubing Data		Casing Data		SIP/Flow Duration (HRS.)
No.	(Prover) Line Size x Orifice Size	Press. PSIG	Diff. h _w	Temp. F	Press. PSIG	Temp. F	Press. PSIG	Temp. F	
Shut-in Pressure					3768	92			40
1.	4.00 x 1.75	2310.00	3.50	66	3678	92			1
2.	4.00 x 1.75	2256.00	5.10	61	3567	92			1
3.	4.00 x 1.75	2167.00	8.50	57	3456	92			1
4.	4.00 x 1.75	2098.00	12.80	54	3321	92			1

RATE OF FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. FACTOR F _t	Gravity FACTOR F _g	Super Compress. FACTOR F _{pv}	Rate of Flow (Q) MCFD
1.	15.630	89.917	2310.0	.9943	1.2899	1.1465	2066.5
2.	15.630	107.264	2256.0	.9990	1.2899	1.1528	2490.7
3.	15.630	135.718	2167.0	1.0029	1.2899	1.1576	3176.6
4.	15.630	163.873	2098.0	1.0058	1.2899	1.1608	3857.6

No.	P _r	TEMP.	T _r	Z
1.	3.417	526	1.482	.7608
2.	3.337	521	1.468	.7525
3.	3.205	517	1.457	.7463
4.	3.103	514	1.449	.7421

Gas-Liquid Hydrocarbon Ratio		Mcf/bbl
API Gravity of Liquid Hydrocarbons		Deg.
Specific Gravity Separator Gas	.601	
Specific Gravity Flowing Fluid	.601	
Critical Pressure	676 PSIA	676 PSIA
Critical Temperature	354 R	354 R

$$P_C = 3768.0 \quad P_C^2 = 14197.8$$

No.	P _w	P _w ²	P _C ² - P _w ²
1.	3688.0	13601	596.732
2.	3581.6	12827	1370.076
3.	3479.9	12109	2088.212
4.	3356.9	11268	2929.024

$$(1) \frac{P_C^2}{P_C^2 - P_W^2} = 4.847 \quad (2) \left[\frac{P_C^2}{P_C^2 - P_W^2} \right]^n = 1.911$$

$$AQF = Q \left[\frac{P_C^2}{P_C^2 - P_W^2} \right]^n = 7372$$

Absolute Open Flow 7372		Mcf/d @ 15.025	Angle of Slope - 67.7	Slope, n .410
Remarks				
Approved By Division:	Conducted By: ANM	Calculated By: BPT System	Checked By: ain, mummy, PELS 10/29/01	