

Submit in duplicate to appropriate district office 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

RECEIVED
OCD - ARTESIA
JUL 20 2001

Operator MYCO INDUSTRIES, INC.					Lease or Unit Name Cheyenne				
Test Type ☒ Initial ☐ Annual ☐ Special					Test Date 6-26-01		Well No. 1		
Completion Date 6-26-01		Total Depth 12029		Plug Back TD 12,029		Elevation 3149' GL		Unit Ltr - Sec - TWP - Rge. 660' FSL & FEL	
Csg. Size 5.500	Wt. 17.000	d 4.892	Set At 12029	Perforation: From To		County Eddy			
Tbg. Size 2.875	Wt. 6.500	d 2.441	Set At 11602	Perforation: From 11682 To 11692		Pool Und-Carlsbad, East			
Type Well-Single-Bradenhead-G.G. or G.O. Multiple Initial- Single						Packer Set At 11,602		Formation Morrow	
Producing Thru Tubing		Reservoir Temp. F 197		Mean Annual Temp. F 97		Baro. Pressure 14.73		Connection Duke	
L 11602	H 11602	Gg .605	% CO ₂ 1.01	% N ₂ .25	% H ₂ S	Prover Prover		Meter Run Taps 4" Pipe	

Flow Data					Tubing Data		Casing Data		SIP/Flow Duration (HRS.)
(Prover)	Press. PSIG	Diff. h _w	Temp. F		Press. PSIG	Temp. F	Press. PSIG	Temp. F	
No. Line Size x Orifice Size									
Shut-in Pressure					4050	97			40
1. 4.00 x 1.75	2523.00	3.30	66		3898	97			1
2. 4.00 x 1.75	2467.00	5.40	57		3764	97			1
3. 4.00 x 1.75	2387.00	9.50	54		3634	97			1
4. 4.00 x 1.75	2297.00	13.20	52		3487	97			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	91.512	2537.7	.9943	1.2856	1.1473	2097.7
2.	15.630	115.764	2481.7	1.0029	1.2856	1.1596	2705.4
3.	15.630	151.051	2401.7	1.0058	1.2856	1.1647	3555.7
4.	15.630	174.685	2311.7	1.0078	1.2856	1.1681	4132.1

No.	P _r	TEMP.	T _r	Z
1.	3.755	526	1.477	.7597
2.	3.672	517	1.452	.7437
3.	3.554	514	1.444	.7372
4.	3.420	512	1.438	.7329

Gas-Liquid Hydrocarbon Ratio		Mcf/bbl
API Gravity of Liquid Hydrocarbons		
Specific Gravity Separator Gas	.605	
Specific Gravity Flowing Fluid		.605
Critical Pressure	675 PSIA	675 PSIA
Critical Temperature	356 R	356 R

$P_C = 4064.7$ $P_C^2 = 16522.0$

No.	P _w	P _w ²	P _C ² - P _w ²
1.	3922.7	15387	1134.818
2.	3795.3	14404	2117.659
3.	3677.6	13524	2997.496
4.	3541.4	12541	3980.244

(1) $\frac{P_C^2}{P_C^2 - P_W^2} = 4.151$ (2) $\left[\frac{P_C^2}{P_C^2 - P_W^2} \right]^n = 2.220$

AOF = Q $\left[\frac{P_C^2}{P_C^2 - P_W^2} \right]^n = 9171$

Absolute Open Flow 9171		Mcf (at 15.025)	Angle of Slope - 60.7	Slope, n .560
Remarks MYCO Industries, Inc.				
Approved By Division:		Conducted By: ANM	Calculated By: BPT System	Checked By: