

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

30-015-31281

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator CHI OPERATING INC.				Lease or Unit Name CARBON VALLEY "15" FED			
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date	Well No. 1
Completion Date 9/11/00		Total Depth 8900		Plug Back TD 8851		Elevation	Unit Ltr - Sec - TWP - Rge A 15 16S 22E
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 8851	Perforations: From: 8622 To: 8640			County EDDY
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At	Perforations: From: To:			Pool Diamond Maand Morrow
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 8541		Formation Morrow	
Producing Thru TUBING		Reservoir Temp. °F 145	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2		Connection SALES	
L 8541	H 8541	Gg 0.653	%CO ₂ 0.268	%N ₂ 0.5	%H ₂ S N/A	Prover N/A	Meter Run Taps FLG
FLOW DATA				TUBING DATA			
No.	Prover Line Size	Orifice Size	Press p.s.i.g.	Diff. h _w	Temp. °F	Press p.s.i.g.	Temp. °F
SI						2382.1	N/A
1			62			1575	
2			62			1450	
3			68			1405	
4			68			1300	
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							1183
2	GAS	VOLUMES	FROM	TOTAL	FLOW	METER	2350
3							3163
4							4038
5							
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio N/A Mcf/bbl.		
1					A.P. I. Gravity of Liquid Hydrocarbons N/A Deg.		
2	TOTAL	FLOW	METER		Specific Gravity Separator Gas 0.653 XXXXXXXX		
3					Specific Gravity Flowing Fluid N/A XXXXXX		
4					Critical Pressure 673 P.S.I.A. P.S.I.A.		
5					Critical Temperature 371 R. R.		
P _c 2382.1 P _{c2} 5674.4							
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.48$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.48$		
1	2480.6	1579	2493.1	3181.3			
2	2102.5	1467.1	2152.3	3522.1			
3	1974	1436.9	2064.6	3609.8			
4	1690	1356.2	1839.2	3835.2			
5							
Absolute Open Flow 5974				Mcf/d @ 15.025	Angle of Slope (°): 45	Slope n: 1	
Remarks: * CALCULATED FROM KNOWN SHUT IN BOTTOM HOLE PRESSURE. NO LIQUID MADE DURING TEST.							
Approved By Division:		Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER		Checked By: BM	