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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 Concho Res.					Lease or Unit Name Carbon Valley Deen '23'				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 11-23-99				
Completion Date 12-16-99		Total Depth 9354'		Plug Back TD 9266		Elevation 3604		Well No. 1	
Csg. Size 4 1/2		Wt. d 11.6 4.0		Set At 9354'		Perforations: From: 9120' To: 9124		Unit Ltr. - Sec. - TWP - Rge. 23 16-S 27-E	
Thg. Size 2 3/8		Wt. d 4.7 1.995		Set At 8808		Perforations: From: To:		County El Paso	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 8804				
Producing Thru Tbg		Reservoir Temp. °F 162.1		Mean Annual Temp. °F 60°		Baro. Press - P _a 13.2		Formation Morrow	
L 8808		H 8808		Gg .707		%CO ₂ 5.00		%N ₂ 2.77	
						%H ₂ S 0		Prover 0	
								Meter Run 3.068	
								Taps F/G	

FLOW DATA					TUBING DATA		CASING DATA		Duration Of Flow
No.	Prover Line X 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.	
SI						1000		PKR	
1.	3.068 X 1.500		100	19	62°	500		PKR	24 hrs
2.									
3.									
4.									
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.	11.13	46.4	113.2	.9981	1.189	1.055	646
2.							
3.							
4.							
5.							

No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	58.7	Mcf/bbl.
1.	.76	522	1.38	.898	A. P. I. Gravity of Liquid Hydrocarbons	50@60°	Deg.
2.					Specific Gravity Separator Gas	.707	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	N/A	XXXXXX
4.					Critical Pressure	685	P.S.I.A.
5.					Critical Temperature	376	R.

P _c 1013.2		P _c ² 1026.6	
No.	P _c ²	P _w	P _w ²
1.	263.4	526.3	277.0
2.			
3.			
4.			
5.			

(1) $P_c^2 = 1.369$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.369$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .885$

Absolute Open Flow	Mcf/d @ 15.025	Angle of Slope θ: 45°	Slope, n: 1.000
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Remarks: ***Well made 11 BBLS of 50° API gravity oil during test**

Approved By Division	Conducted By: Pro Well Testing	Calculated By: M.B.	Checked By: B.M.
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