

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator DEVON ENERGY				Lease or Unit Name STATE "R"			
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 11/24/00	Well No. 2
Completion Date		Total Depth		Plug Back TD		Elevation	Unit Ltr - Sec - TWP - Rge 1 21S 34E
Csg. Size	Wt.	d	Set At	Perforations: From: 13114 To: 13166		County LEA	
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 12880	Perforations: From: To:		Pool <i>Pseudo</i>	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 12880		Formation <i>Morrow</i>	
Producing Thru TUBING		Reservoir Temp. °F 177.7	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2		Connection SALES	
L 12880	H 12880	Gg 0.598	%CO ₂ 0.486	%N ₂ 0.295	%H ₂ S N/A	Prover N/A	Meter Run 3.068
FLOW DATA				TUBING DATA		CASING DATA	
No.	Prover Line Size	Orifice x Size	Press p.s.i.g.	Diff. h _w	Temp. °F	Press p.s.i.g.	Temp. °F
SI						3804	N/A
1		3.068 X 1.500	654	2.9	61	3782	
2		3.068 X 1.500	654	12.4	80	3702	
3		3.068 X 1.500	657	41.7	81	3497	
4		3.068 X 1.500	663	162	66	2994	
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}
1							
2	GAS VOLUMES		FROM	TOTAL		FLOW	METER
3							
4							
5							
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 401.583 Mcf bbl.		
1					A.P. I. Gravity of Liquid Hydrocarbons 48.4 Deg.		
2	TOTAL	FLOW	METER		Specific Gravity Separator Gas .598/GMIX = .606 XXXXXXXX		
3					Specific Gravity Flowing Fluid N/A XXXXX		
4					Critical Pressure 675 P.S.I.A. 674 P.S.I.A.		
5					Critical Temperature 350 R 346 R		
P _c 3942.2 P _{c2} 15540.9							
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{3.15}{}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{2.51}{}$		
1		3890.4	15135.2	405.7			
2		3818.2	14578.7	962.2			
3		3667.6	13451.3	2089.6			
4		3258.5	10617.8	4923.1			
5					AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{12753.3}{}$		
Absolute Open Flow 12753.3				Mcf/d @ 15.025	Angle of Slope (°) 51.2	Slope n: 0.8038	
Remarks: * CALCULATED FROM KNOWN BOTTOM HOLE PRESSURES/ WELL MADE 1 BBL OF 48.4 API GRAVITY CONDENSATE DURING TEST.							
Approved By Division: <i>Energy</i>		Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER		Checked By: BM	

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