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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 BELL LAKE			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 1/2/01		Well No. 21	
Completion Date		Total Depth		Plug Back TD		Elevation	
Csg. Size		Wt.		d		Set At	
Tbg. Size		Wt.		d		Set At	
2 3/8		4.7		1.995		12813	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 12813		Formation	
Producing Thru TUBING		Reservoir Temp. °F 189.1		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 12847		H 12847		Gg 0.613		%CO ₂ 0.503	
				%N ₂ 0.366		%H ₂ S N/A	
				Prover N/A		Meter Run 4.026	
						Taps FLG	
FLOW DATA				TUBING DATA			
Casing DATA				Duration of Flow			
No.	Prover Line Size	Orifice Size	Press p.s.i.g.	Diff. h _w	Temp. °F	Press p.s.i.g.	Temp. °F
SI						6015	N/A
1	4.026 X 1.750		540	5	68	5905	
2	4.026 X 1.750		585	20	62	5780	
3	4.026 X 1.750		600	41	66	5585	
4	4.026 X 1.750		610	74	50	5430	
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	14.93	52.6	553.2	0.9924	1.277	1.043	1038
2	14.93	109.4	598.2	0.9981	1.277	1.044	2173
3	14.93	158.6	613.2	0.9943	1.277	1.043	3135
4	14.93	214.7	623.2	1.01	1.277	1.048	4332
5							
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 445 Mcf/bbl.		
1	0.78	528	1.49	0.92	A.P. I. Gravity of Liquid Hydrocarbons 53.2 Deg.		
2	0.77	522	1.47	0.918	Specific Gravity Separator Gas .613 / GMIX = .654 XXXXXXXX		
3	0.78	526	1.48	0.92	Specific Gravity Flowing Fluid N/A XXXXXX		
4	0.78	510	1.44	0.91	Critical Pressure 674 P.S.I.A. 673 P.S.I.A.		
5					Critical Temperature 354 R. 371 R		
P _c 6078.9 P _{c2} 36953					$(1) \quad \frac{P_c^2}{P_c^2 - P_w^2} = 7.13 \quad (2) \quad \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 7.13$ $AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 30877.1$		
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²			
1		5971.8	35662.4	1290.6			
2		5847	34187.4	2765.6			
3		5762.7	33208.7	3744.3			
4		5636.7	31772.4	5180.6			
Absolute Open Flow 30877.1 Mcfd @ 15.025					Angle of Slope (°): 45 Slope n: 1		
Remarks: * CALCULATED FROM KNOWN BOTTOM HOLE PRESSURES. / WELL MADE 6 BBLS OF 53.2 API GRAVITY CONDENSATE DURING TEST.							
Approved By Division:		Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER		Checked By: BM	

DEVON ENERGY
BELL LAKE # 21

