

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

498

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator READ & STEVENS				Lease or Unit Name BANDIT STATE						
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10/8/01		Well No. 3		
Completion Date 10/5/01		Total Depth 11952		Plug Back TD 11791		Elevation 3313		Unit Ltr - Sec - TWP - Rge D 10 23S 26E		
Csg. Size 4 1/2		Wt 10.5		Set At 11952		Perforations: From: 11678 To: 11698		County EDDY		
Tbg. Size 2 7/8		Wt 6.5		Set At 11560		Perforations: From: To:		Pool SOUTH Carlsbad Morrow		
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE						Packer Set At 11600		Formation MORROW		
Producing Thru Tubing		Reservoir Temp. °F 190		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		Connection AIR		
I. 11600		H 11600		Gg 0.608		%CO ₂ 3.478		%N ₂ 1.191		
						%H ₂ S N/A		Prover N/A		
								Meter Run 4.026		
								Taps FLG		
FLOW 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	Press p.s.i.g.	Temp. °F	Duration of Flow
1	4 026 X 1 500		180	1	66	1377	N/A	PKR	N/A	1 HR
2	4 026 X 1 500		180	5	66	1340				1 HR
3	4 026 X 1 500		180	9	66	1273				1 HR
4	4 026 X 1 500		210	26	66	1190				1 HR
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	10.84		13.9	193.2	0.9943	1.282	1.041	199		
2	10.84		31	193.2	0.9943	1.282	1.041	445		
3	10.84		41.7	193.2	0.9943	1.282	1.041	599		
4	10.84		76.2	223.2	0.9943	1.282	1.041	1096		
5										
No	P _i	Temp °R	T _i	Z	Gas Liquid Hydrocarbon Ratio			N/A Mcf/bbl.		
1	0.76	526	1.49	0.922	A.P.I. Gravity of Liquid Hydrocarbons			N/A Deg.		
2	0.76	526	1.49	0.922	Specific Gravity Separator Gas			0.608 XXXXXXXX		
3	0.76	526	1.49	0.922	Specific Gravity Flowing Fluid			XXXXXX		
4	0.76	526	1.49	0.922	Critical Pressure			684 P.S.I.A. P.S.I.A.		
5					Critical Temperature			353 R. R.		
P _i 1390.2 P _e 1932.7										
No	P _i ²	P _u	P _w ²	P _e ² - P _w ²	(1) $P_c^2 = \frac{4.109}{P_e^2 - P_w^2}$ (2) $\left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 4.109$					
1	1831.2	1353.4	1831.6	101						
2	1698.3	1304.1	1700.7	231.9						
3	1654.3	1287.9	1658.7	274						
4	1447.7	1209.3	1462.4	470.3	AOF = Q $\left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 4.504$					
5										
Absolute Open Flow 4.504					Mcf/d @ 15.025		Angle of Slope (°): 45		Slope n: 1	

Remarks: * WELL MADE NO LIQUID DURING TEST.

Approved By Division	Conducted By: PRO WELL TESTING	Calculated By: MERV BUECKER	Checked By: BM
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