

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 OUTLAND STATE 44					
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 2/6/01		Well No. 3			
Completion Date		Total Depth		Plug Back TD		Elevation		Unit Ltr - Sec - TWP - Rge P-11-21S-34E		
Csg. Size	Wt.	d	Set At	Perforations: From: 12756 To: 12840			County LEA			
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 12601	Perforations: From: To:			Pool Wilson			
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 12601			Formation Morrow			
Producing Thru TUBING		Reservoir Temp. °F 175.2		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		Connection AIR		
L 12601	H 12601	Gg 0.647	%CO ₂ 0.531	%N ₂ 0.801	%H ₂ S N/A	Prover N/A	Meter Run 4.026	Taps FLG		
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	Press p.s.i.g.	Temp. °F	Duration of Flow
S1						5080	N/A	PKR	N/A	
1	4.026 X 1.500		660	14	66	4915				1 HR
2	4.026 X 1.500		670	25	64	4840				1 HR
3	4.026 X 1.500		670	34	64	4780				1 HR
4	4.026 X 1.500		690	77	64	4600				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		97	673.2	0.9943	1.243	1.051		1365	
2	10.84		130.7	683.2	0.9962	1.243	1.051		1843	
3	10.84		152.4	683.2	0.9962	1.243	1.051		2149	
4	10.84		232.7	703.2	0.9962	1.243	1.051		3282	
5										
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio N/A Mcf/bbl.					
1	0.78	526	1.42	0.905	A.P. I. Gravity of Liquid Hydrocarbons N/A Deg.					
2	0.78	527	1.42	0.905	Specific Gravity Separator Gas 0.647 XXXXXXXX					
3	0.78	527	1.42	0.905	Specific Gravity Flowing Fluid N/A XXXXXX					
4	0.78	527	1.42	0.905	Critical Pressure 673 P.S.I.A. P.S.I.A.					
5					Critical Temperature 369 R. R.					
P _c 5115.1 P _{c2} 26164.2										
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{10.15}{10.15}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{10.15}{10.15}$					
1		4958.9	24590.7	1573.5	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{33312.3}{10.15}$					
2		4904.4	24053.1	2111.1						
3		4916.5	24171.9	1992.3						
4		4856.6	23586.6	2577.6						
5										
Absolute Open Flow 33312.3 Mcfd @ 15.025					Angle of Slope (°): 45			Slope n: 1		
Remarks: *CALCULATED FROM KNOWN BOTTOM HOLE PRESSURES. NO LIQUID MADE DURING TEST.										
Approved By Division:			Conducted By: PRO WELL TESTING			Calculated By: MERV BUECKER			Checked By: BM	