

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

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OCD ARTESIA

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator OXY USA					Lease or Unit Name OXY BUFFALO BILL STATE				
Type Test ☒ Initial ☐ Annual ☐ Special								Test Date 7/27/01	Well No. 1
Completion Date		Total Depth		Plug Back TD		Elevation		Unit Ltr - Sec - TWP - Rge 27 20S 27E	
Csg. Size	Wt.	d	Set At	Perforations: From: 10768 To: 10864				County EDDY	
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 10701	Perforations: From: To:				Pool Avalon Morrow	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 10701				Formation Morrow	
Producing Thru TUBING		Reservoir Temp. °F 173.6		Mean Annual Temp. °F 60		Baro. Press. -P _a 13.2		Connection SALES	
L 10701	H 10701	Gg 0.623	%CO ₂ 0.744	%N ₂ 0.391	%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
SI						2415	N/A	PKR	N/A
1	4.026 X 1.000		428	1.8	108	2176			1 HR
2	4.026 X 1.000		441	28.3	119	2004			1 HR
3	4.026 X 1.000		469	26.4	120	1878			1 HR
4	4.026 X 1.000		482	60	120	1517			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									172
2									683
3	GAS MEASURED		BY	TOTAL		FLOW	METER		662
4									1031
5									
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio N/A Mcf bbl.				
1					A.P. I. Gravity of Liquid Hydrocarbons N/A Deg.				
2					Specific Gravity Separator Gas 0.623 XXXXXXXX				
3	TOTAL	FLOW	METER		Specific Gravity Flowing Fluid N/A XXXXXX				
4					Critical Pressure 674 P.S.I.A. P.S.I.A.				
5					Critical Temperature 358 R. R.				
P _c 2530.7 P _{c2} 6404.4									
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.16$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.16$				
1		2250	5062.5	1341.9					
2		2155.9	4647.9	1756.5					
3		1929.9	3724.5	2679.9					
4		1551.6	2407.5	3996.9					
5									
Absolute Open Flow 1649.6 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	

OXY USA
OXY BUFFALO BILL STATE #1

