

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 EXXON MOBIL U.S.A.				Lease or Unit Name YATES "C" FIELD			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 12/12/00		Well No. 20	
Completion Date 6/25/00		Total Depth 4.778		Plug Back TD 10500		Elevation 5 21S 27E	
Csg. Size 5 1/2	Wt. 20	d 4.778	Set At 10,500	Perforations: From: 10782 To: 11384		County EDDY	
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 10007	Perforations: From: To:		Pool W Burton Flat Strawn	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 10007		Formation	
Producing Thru TUBING		Reservoir Temp. °F 174.1	Mean Annual Temp. °F 60	Baro. Press. -P _a 13.2		Connection SALES	
L 10007	H 10007	Gg 0.767	%CO ₂ 0.206	%N ₂ 0.001	%H ₂ S N/A	Prover N/A	Meter Run 2.9
FLOW DATA				TUBING DATA		CASING DATA	
No.	Prover Line Size	Orifice Size	Press p.s.i.g.	Diff. h _w	Temp. °F	Press p.s.i.g.	Temp. °F
SI						1846	N/A
1	2.900 X .750		40	12	70	120	
2							
3							
4							
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							
2	GAS VOLUMES	MEASURED	BY	TOTAL	FLOW	METER	116
3							
4							
5							
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 4.677 Mcf bbl.		
1					A.P. I. Gravity of Liquid Hydrocarbons 54.2 Deg.		
2	TOTAL	FLOW	METER		Specific Gravity Separator Gas .767 / GMIX 1.304 XXXXXX		
3					Specific Gravity Flowing Fluid XXXXX		
4					Critical Pressure 670 P.S.I.A. 653 P.S.I.A.		
5					Critical Temperature 406 R. 533 R		
P _c 1859.2 P _{c2} 3456.6							
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.005}{1.005}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.005}{1.005}$		
1	17.7	134.2	18	3438.6			
2							
3							
4							
5							
Absolute Open Flow 117 Mcfd @ 15.025				Angle of Slope (°) 45		Slope n: 1	
Remarks: * WELL MADE 24.8 BBLs OF 54.2 API GRAVITY CONDENSATE DURING TEST.							
Approved By Division:		Conducted By: PRO WELL TESTING		Calculated By: MB		Checked By: BM	