

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

30-015-21163

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator UNIT PETROLEUM CO. /					Lease or Unit Name PHILLY FED				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 7/24/01		Well No. 1		
Completion Date		Total Depth 12165		Plug Back TD 11650		Elevation		Unit Ltr - Sec - TWP - Rge H 21 23S 26E	
Csg. Size 7	Wt. 29	d 6.184	Set At 12165	Perforations: From: 11530 To: 11602		County EDDY			
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 11317	Perforations: From: To:		Pool So. Carlsbad (Morrow)			
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 11317		Formation MORROW			
Producing Thru TUBING		Reservoir Temp. °F 187.2		Mean Annual Temp. °F 60		Baro. Press.-P _a 13.2		Connection sales	
L 11317	H 11317	Gg 0.644	%CO ₂ 1.205	%N ₂ 0.326	%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						1920	N/A	PKR	N/A
1	4.026 x 1.000		210	16	70	275			
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									351
2	TOTAL		FLOW	METER					
3									
4									
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	TOTAL	FLOW	METER		Specific Gravity Separator Gas 0.644 XXXXXXXX				
3					Specific Gravity Flowing Fluid XXXXXX				
4					Critical Pressure 673 P.S.I.A. P.S.I.A.				
5					Critical Temperature 368 R. R.				
P _c 1933.2 P _{c2} 3737.3									
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $P_c^2 = 1.024$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.024$				
1	83.1	296.6	87.9	3645.8					
2									
3									
4									
5					AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 359$				
Absolute Open Flow		359		Mcf/d @ 15.025		Angle of Slope (°):		45	
						Slope n:		1	
Remarks: * NO LIQUID MADE DURING TEST.									
Approved By Division:			Conducted By: PRO WELL TESTING			Calculated By: MERV BUECKER		Checked By: BM	