

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

30-025-36460

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator **UNIT PETROLEUM CO.** Lease or Unit Name **BYERS**

Type Test ☐ Initial ☐ Annual ☐ Special Test Date **7/8/2004** Well No. **1**

Completion Date Total Depth Plug Back TD Elevation **3670 GL** Unit Ltr - Sec - TWP - Rge **J 23-20-35**

Csg. Size **4 1/2** Wt. **13450** Perforations: From: **13286** To: **13342** County **LEA**

Tbg. Size **2 3/8** Wt. **4.7** d **1.995** Set At **13230** Perforations: From: To: Pool **OSUDO MORROW WEST**

Type Well-Single-Bradenhead-G.G. or G.O. Multiple **SINGLE** Packer Set At **NONE** Formation **MORROW**

Producing Thru TUBING Reservoir Temp. **175.6** Mean Annual Temp. **60** Baro. Press. - P_a Connection **SALES**

L **13050** H **13050** Gg **0.6599** %CO₂ **3.079** %N₂ **1.331** %H₂S Prover Meter Run **3** Taps **FLG**

FLOW DATA				TUBING DATA				CASING DATA		Duration of Flow
No.	Prover Line Size	Orifice x Size	Press p.s.i.g.	Diff. h _w	Temp.	Press p.s.i.g.	Temp.	Press p.s.i.g.	Temp.	
SI						2060				72 HRS.
1	3 x 1.250		615	48	65	850		1100		24 HRS.
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	TOTAL	FLOW	METER				1140
3							
4							
5							

No.	P _r	Temp. R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf bbl.
1						
2					A.P. I. Gravity of Liquid Hydrocarbons 58.4	Deg.
3					Specific Gravity Separator Gas 0.6599	XXXXXXX
4			N/A		Specific Gravity Flowing Fluid XXXXXX	G MIX = .698
5					Critical Pressure 681 P.S.I.A. 669 P.S.I.A.	
					Critical Temperature 367 R. 388 R	

P _c 2389.3	P ₂ 7204.9			
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		1135	1288.3	5916.6
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.218}{1.388} \quad (2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.218}{1.388}$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.388$$

Absolute Open Flow **1.312 - 1.388** Mcfd @ 15.025 Angle of Slope (°) **45** Slope, n: **1**

Remarks: *** BHP = 3326.0 (PSIA) WELL PRODUCED 15.0 BBLs CONDENSATE NO H2O**

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

UNIT PETROLEUM CO.
BYERS #1



