

# OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

Form C-122  
Revised 10-1-78

## MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 4/4/89	
Company Union Texas Petroleum Corp.			Connection Sunterra Gas Gathering Co.		
Pool Blanco			Formation Mesaverde		Unit
Completion Date 1/21/89		Total Depth 6053	Plug Back TD 6009	Elevation 6471 GL	Farm or Lease Name Nordhaus
Csg. Size 4.500	Wt. 11.6	d 4.000	Set At 3515-6049	Perforations: From 4930 To 5973	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 5912	Perforations: From Opened ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At	
Producing Thru Tubing			Reservoir Temp. °F #	Mean Annual Temp. °F	Baro. Press. - P <sub>a</sub> 12
L	H	Gg .700	% CO <sub>2</sub>	% N <sub>2</sub>	% H <sub>2</sub> S
Prover			Meter Run	Taps	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h <sub>w</sub>	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	2"		3/4"				630		688		10 Days
1.							150	60°	619	60°	3 Hours
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Flow Temp. Factor Ft.	Gravity Factor F <sub>g</sub>	Super Compress. Factor, F <sub>pv</sub>	Rate of Flow Q, Mcfd
1	12.3650		162	1.000	0.9258	1.020	1892
2.							
3.							
4.							
5.							

NO.	P <sub>t</sub>	Temp. °R	T <sub>r</sub>	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas	X X X X X X X X
3.					Specific Gravity Flowing Fluid	X X X X X
4.					Critical Pressure	P.S.I.A. P.S.I.A.
5.					Critical Temperature	R R

NO.	P <sub>t</sub> <sup>2</sup>	P <sub>w</sub>	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.3354$	(2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.5105$
1		631	398,161	91,839		
2						
3						
4						
5						

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6642$

Absolute Open Flow 6642 Mcfd @ 15.025    Angle of Slope @ \_\_\_\_\_    Slope, n 0.75

Remarks: Making heavy mist of oil during complete test.

Approved By Division	Conducted By: Connie Clevenger	Calculated By: John C. Rector	Checked By:
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