

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  Initial  Annual  Special Test Date 10/23/86

Company: Union Texas Petroleum Corp. Connection: El Paso Natural Gas Company

Pool: Basin Formation: Dakota Unit:

Completion Date: 10/16/86 Total Depth: 6485 Plug Back TD: 6435 Elevation: 5720 Farm or Lease Name: McCord

Csg. Size: 5.500 Wt.: 26.0 d: 4.548 Set At: 6484 Perforations: From 6278 To 6391 Well No.: 14E

Tng. Size: 2.375 Wt.: 4.7 d: 1.995 Set At: 6413 Perforations: Open-Ended From To Unit Sec. Twp. Rge.: N 3 31N 13W

Type Well - Single - Bradenhead - G.G. or G.O. Multiple Packer Set At County: San Juan

Producing Thru Tubing Reservoir Temp. °F Mean Annual Temp. °F Baro. Press. - P<sub>g</sub> 12 State: New Mexico

L: 6413 H: G<sub>g</sub>: 0.710 % 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"				1301		1569		7 days
1.							215	71°	827	71°	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		227	0.9896	0.9193	1.026	2620
2.							
3.							
4.							
5.							

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

P<sub>c</sub> 1581 P<sub>c</sub><sup>2</sup> 2,499,561

NO.	P <sub>1</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		839	703,921	1,795,640
2				
3				
4				
5				

(1)  $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3920$  (2)  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2815$

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3358$

Absolute Open Flow 3358 Mcfd @ 15.025 Angle of Slope @ Slope, n 0.75

Remarks:

Approved By Division Conducted By: Calculated By: Checked By: