

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: 1/21/87									
Company: Union Texas Petroleum Corp.		Connection: El Paso Natural Gas Co.									
Pool: Basin		Formation: Dakota									
Completion Date: 1/5/87	Total Depth: 6230	Plug Back TD: 6180	Elevation: 5477 GL								
Casing Size: 4.500		Well No.: 12E									
Casing Weight: 10.5		Perforations: From 5949 To 6102									
Casing Depth: 4.7		Perforations: From 6062 To 6068									
Type Well: Single - Gas		Packer Set At									
Producing Thru: Tubing		Baro. Press. - P _g : 12									
Reservoir Temp. °F: 0.690		Mean Annual Temp. °F: 12									
L: 6062		H: 0.690									
G _g : 0.690		% CO ₂ : % N ₂ : % H ₂ 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 _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
1	2"		3/4"				1269		2028		9 Days
2							253	72°	597	72°	3 Hours
3											
4											
5											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd				
1	12.3650		265	0.9887	0.9325	1.029	3109				
2											
3											
4											
5											
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. Specific Gravity Separator Gas _____ Specific Gravity Flowing Fluid _____ Critical Pressure _____ P.S.I.A. Critical Temperature _____ R						
1	2040				RECEIVED JAN 26 1987 OIL CON. DIV. DISC 9						
2											
3											
4											
5											
NO.	P _r	P _w	P _r ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.0978$ (2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.0725$					
1	609	370,881	3,790,719			AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 3334$					
2											
3											
4											
5											
Absolute Open Flow 3334					Mcf @ 15.025		Angle of Slope @	Slope, n 0.75			
Remarks:											
Approved By Division		Conducted By: Cliff Gates		Calculated By: John C. Rector		Checked By:					