

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 11-5-82						
Company Union Texas Petroleum Corp.				Connection El Paso Natural Gas Co.							
Pool Basin				Formation Dakota							
Completion Date 10-20-82		Total Depth 6150		Plug Back TD 6057		Elevation 5850					
Csg. Size 5.500		Wt. 15.50	d 4.950	Set At 6143	Perforations: From 5911 To 6004		Well No. 1-E				
Thq. Size 2.375		Wt. 4.70	d 1.995	Set At 5961	Perforations: From Open-Ended To		Unit L	Sec. 1	Twp. 27N	Rge. 13W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At -----		County San Juan				
Producing Thru Tubing L 5949		H	Reservoir Temp. °F # 0.700	Mean Annual Temp. °F	Baro. Press. - P _a 12		State New Mexico				
Gg	% 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
51	2"		3/4"				880	70	880		
1.							85		405		
2.											
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 _{pv}	Rate of Flow Q, Mcfd				
1	12.3650		97	0.9905	0.9258	1.000	1100				
2.											
3.											
4.											
5.											
NO.	P _t	Temp. °R	T _f	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 Critical Pressure _____ P.S.I.A. _____ P.S.I.A. Critical Temperature _____ R _____ R						
1.											
2.											
3.											
4.											
5.											
NO.	P _c	P _w	R _w ²	P _c ² - R _w ²	(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 1.2797$			(2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1.2032$			
1	892	417	173,889	621,775							
2											
3											
4											
5											
AOF = Q					$\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1324$						
Absolute Open Flow					1324		Mcf/d @ 15.025		Angle of Slugs @		Slope, n
											0.75
Remarks:											
Approved By Division			Conducted By: Connie Clevenger			Calculated By: Ken Roddy			Checked By:		