

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 12-4-84
Company Consolidated Oil & Gas		Connection Northwest Pipeline
Pool Basin Dakota		Formation Dakota
Completion Date 11-1-84	Total Depth 8450	Plug Back TD 8390 (CO)
Elevation 7347 GR		Farm or Lease Name Hoyt
Csg. Size 5 1/2"	Wt. 15.5#	d 4.950
Set At 8437	Perforations: From 8162 To 8370	
Well No. 2E	Unit I	Soc. 5
Tng. Size 1 1/2"	Wt. 2.9#	d 1.610
Set At 8360	Perforations: From To	
Unit I	Soc. 5	Twp. 26
Type Well - Single - Drillinghead - G.C. or G.O. Multiple Multiple Gas		Packer Set At 7760
County Rio Arriba		State New Mexico
Producing Thru Tubing	Reservoir Temp. °F	Mean Annual Temp. °F
Baro. Press. - P _a	Meter Run	
Taps	% CO ₂	% N ₂
% H ₂ S	Prover	

JAN 02 1985
OIL CON. DIV.
DIST. 3

NO.	FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	11-13-84						1127 DWT		Pkr.		3 hour
1.	20 days						136		Pkr.		
2.	3/4" x 2" x 6" pos. choke										
3.											
4.											

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
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio		A.P.J. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
					1						
2.											
3.											
4.											
5.											

P _c 1139	P _c ² 1297321	(1) $\frac{P_c^2}{P_w^2 - P_w^2} = 1.4319$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3089$
NO. 1	P ₁ ²	P _w	P _w ²
1		625.5	391289
2			
3			
4			
5			
Absolute Open Flow 2677		Mold @ 15.025	Angle of Slope @ 53.13°
Slope, n 0.75			

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2677$