B.T. Gauge Numbers			1114	1113	Ticket Number		787847	
			PRESSURE	PRESSURE				
Initial Hydrostatic Final Hydrostatic		1288 1226	1362	Elevation		3259	ft.	
			1248		1st Flow		MCF	
1st Flow	Initial	Time	127	194	Production —	2nd Flow	1445	MCF
	Final	30	398	413	Rate	3rd Flow		MCF
	Closed In Pressure	90	1270	1281	Hole Size		7.875	in.
	Initial	Time	362	360	Footage Tested		75	ft.
2nd Flow	Final	120	596	606	Mud Weight		8.9	lbs./gal.
	Closed In Pressure	240	1270	1276	Gas Viscosity		0.02	ср
	Initial	Time			Gas Gravity	EST.	0.60	
3rd Flow	Final			-	Gas Compressib		0.825	
	Closed In Pressure				Temperature		84	• F
Extrapolated 1st		lst	1280	1292				
Static Press		2nd	1285	1290				•
		3rd	_	-			<del></del>	
1st		1st	_	-	T			
		2nd	1206	1216	<del> </del>			· <del></del> -
		3rd	-	-				

CHARTS INDICATE NON-STABILIZED DOWN HOLE FLOWING PRESSURE DURING
THE 1ST FLOW PERIOD. DID NOT USE REPORTED RATE FOR ANY CALCULATIONS.

SUMMARY		B.T. Gauge No. 1114/2688'			B.T. Gauge No. 1113/2831			
PRODUCT	EQUATION	FIRST	SECOND	THIRD	FIRST	SECOND	THIRD	UNITS
Transmissibility	$\frac{\text{Kh}}{\mu} = \frac{1637  \text{Q}_{\text{r}}  \text{ZT}}{\text{m}}$		5394.7			5724.7		md. ft.
Theoretical Flow Capacity	$Kh = \frac{Kh}{\mu}  \mu$		107.89			114.49		md. ft.
Average Effective	$K = \frac{Kh}{h}$		_			-		md.
Permeability	$K_1 = \frac{Kh}{h_1}$		1.439			1.527		md.
Indicated Flow Capacity	$(Kh)_{2} = \frac{3200 Q_{r} \mu ZT Log(0.472 b/r_{w})}{P_{8}^{2} - P_{F}^{2}}$		43.638			44.022		md. ft.
Damage Ratio	DR = Theo. Flow Cap Kh Indicated Flow Cap (Kh).		2.473			2.601		<del></del>
Indicated	$OF_1 = \frac{Q_r - P_8^2}{P_8^2 - P_r^2} \qquad Max.$		1841			1854		MCFD
Flow Rate	$OF_2 = \frac{Q_r  P_8}{\sqrt{P_8^2 - P_r^2}}  Min.$		1631			1637		MCFD
Theoretical	$OF_3 = OF_1 DR$ Max.		4552			4822		MCFD
Potential Rate	$OF_4 = OF_2 DR$ Min.		4032			4257		MCFD
Approx. Radius	$b \simeq \sqrt{Kt} \text{ or } \sqrt{Kt_0}$		_			_		ft.
Investigation	$b_1 \subseteq \sqrt{K_1 t} \text{ or } \sqrt{K_1 t_0}$		15.0			15.4	•	ft.
Potentiometric Surface *	Pot. = $(EI - CD) + (2.319 Ps)$		3551			3420		ft.

NOTICE: These calculations are based upon information furnished by you and token from Drill Stem Test pressure charts, and are furnished you for your information. In furnishing such calculations and evaluations based thereon, Halliburton is merely expressing its opinion. You agree that Halliburton makes no warranty express or implied as to the accuracy of such calculations or opinions, and that Halliburton shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.