

Log Section

D.T. Gauge Numbers			1636	35	Ticket Number		631049
Initial Hydrostatic			2359	2334	Elevation		3175 ft.
Final Hydrostatic			2356	2331	1st Flow		- bbls./day
1st Flow	Initial	Time	167	154	Indicated Production	2nd Flow	355 bbls./day
	Final		351	327		3rd Flow	- bbls./day
Closed In Pressure			93	2103	Drill Collar Length		540 ft.
2nd Flow	Initial	Time	329	322	Drill Collar I.D.		2.25 in.
	Final		118	975	Drill Pipe Factor		0.01084 bbls./ft.
Closed In Pressure			179	2091	Hole Size		7.875 in.
3rd Flow	Initial	Time			Footage Tested "Net"		12
	Final				Mud Weight		10.3 lbs./gal.
Closed In Pressure					Viscosity, Oil or Water		2.7 cp
Extrapolated Static Pressure		1st		-	Oil API Gravity		42.5
		2nd	2120	2111	Water Specific Gravity		-
		3rd	-	-	Temperature Est.		100 °F
Slope P/10		1st	-	-			
		2nd	2003	1994			
		3rd	-	-			

Remarks: The calculated flow rate was established using 66 minutes of pressure change during the second flow period prior to the well flowing liquid to the surface. The procedure was necessary since no flow rate was established during the test.

SUMMARY		D.T. Gauge No. 636 4499'			D.T. Gauge No. 35 4504'			UNITS
PRODUCT	EQUATION	FIRST	SECOND	THIRD	FIRST	SECOND	THIRD	
Production	$Q = \frac{1440 R}{t}$		355			355		bbls. day
Transmissibility	$\frac{Kh}{\mu} = \frac{162.6 Q}{m}$		493.40			494.33		md. ft. cp
Indicated Flow Capacity	$Kn = \frac{Kh}{\mu} \mu$		1332.1			1334.7		md. ft.
Average Effective	$K = \frac{Kh}{h}$		-			-		md.
Permeability	$K_i = \frac{Kh}{h_i}$		111.016			111.226		md.
Damage Ratio	$DR = .183 \frac{P_s - P_f}{m}$		1.79			1.765		-
Theoretical Potential w/Damage Removed	$Q_1 = Q DR$		635			635		bbls. day
Approx. Radius of Investigation	$b \approx \sqrt{Kt}$ or $\sqrt{Kt_0}$		-			-		ft.
	$b_1 \approx \sqrt{K_1 t}$ or $\sqrt{K_1 t_0}$		124.7			124.8		ft.
Potentiometric Surface *	$Pot. = EI - CD + 2.319 P_s$		3592			3566		ft.

NOTICE: These calculations are based upon information furnished by you and taken 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.