



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Toto Energy
25815 Oak Ridge Rd
Spring, TX 73380
ATTN: Sean Deenihan

20-32S-14W Barber
Fritz 20-1
Job Ticket: 52379 **DST#: 1**
Test Start: 2013.07.26 @ 16:07:24

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 120000 ppm	
Viscosity: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3565 GIP	0.000
570.00	Water	7.996
70.00	SOMCW 4%O 12%M 84%W	0.982

Total Length: 640.00 ft Total Volume: 8.978 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW w as .06 @ 84 degrees



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Toto Energy
25815 Oak Ridge Rd
Spring, TX 73380
ATTN: Sean Deenihan

20-32S-14W Barber
Fritz 20-1
Job Ticket: 52379 **DST#: 1**
Test Start: 2013.07.26 @ 16:07:24

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	1.00	78.00	2656.39
1	20	1.00	90.00	3001.38
1	30	1.00	98.00	3231.37

Pressure vs. Time

