



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

john jay darrah jr

9 9s 23w graham

p.o. box 2786
wichta, ks 67201

brush creek unit 403

ATTN: seth evanson

Job Ticket: 53821

DST#: 1

Test Start: 2013.06.24 @ 12:45:00

GENERAL INFORMATION:

Formation: **LKC A - F**

Deviated: No Whipstock: 2394.00 ft (KB)

Time Tool Opened: 15:10:30

Time Test Ended: 20:47:00

Test Type: Conventional Bottom Hole (Initial)

Tester: jim svaty

Unit No: 41

Interval: 3715.00 ft (KB) To 3778.00 ft (KB) (TVD)

Reference Elevations: 2394.00 ft (KB)

Total Depth: 3778.00 ft (KB) (TVD)

2389.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

Press @ Run Depth: 113.21 psig @ 3742.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.24

End Date:

2013.06.24

Last Calib.:

2013.06.24

Start Time: 12:45:01

End Time:

20:46:50

Time On Btm:

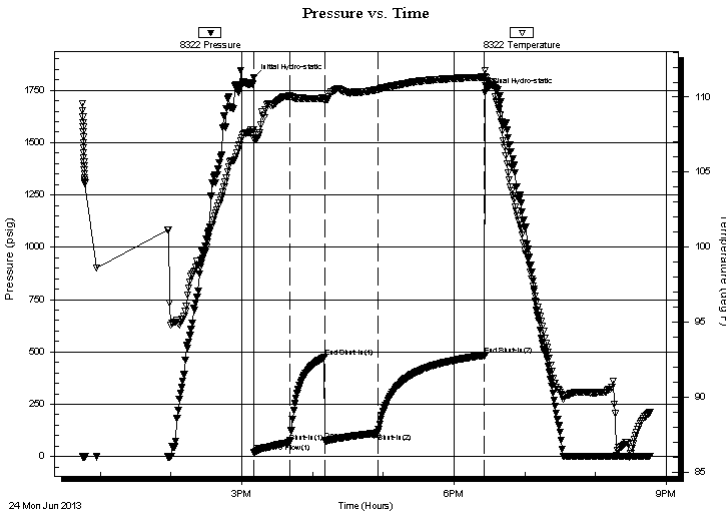
2013.06.24 @ 15:10:20

Time Off Btm:

2013.06.24 @ 18:26:10

TEST COMMENT: 30-IFP- Surface Blow Building to 5 3/4in.
30-ISIP- No Blow
45-FFP-Surface Blow Building to 4 3/4in
90-FSIP-No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1808.79	107.80	Initial Hydro-static
1	19.11	107.23	Open To Flow (1)
31	67.17	110.07	Shut-In(1)
60	475.33	109.91	End Shut-In(1)
61	77.69	109.76	Open To Flow (2)
105	113.21	110.50	Shut-In(2)
196	484.10	111.34	End Shut-In(2)
196	1740.43	111.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	WOCM 10%w 20%o 70%m	0.10
120.00	OWCM 5%o 35%w 60%m	0.59
60.00	OWCM 5%o 45%w 50%m	0.30
0.00	60 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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FLUID SUMMARY

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wichita, ks 67201

brush creek unit 403

Job Ticket: 53821

DST#: 1

ATTN: seth evanson

Test Start: 2013.06.24 @ 12:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

32000 ppm

Viscosity: sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	WOCM 10%w 20%o 70%m	0.098
120.00	OWCM 5%o 35%w 60%m	0.590
60.00	OWCM 5%o 45%w 50%m	0.295
0.00	60 GIP	0.000

Total Length: 200.00 ft

Total Volume: 0.983 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

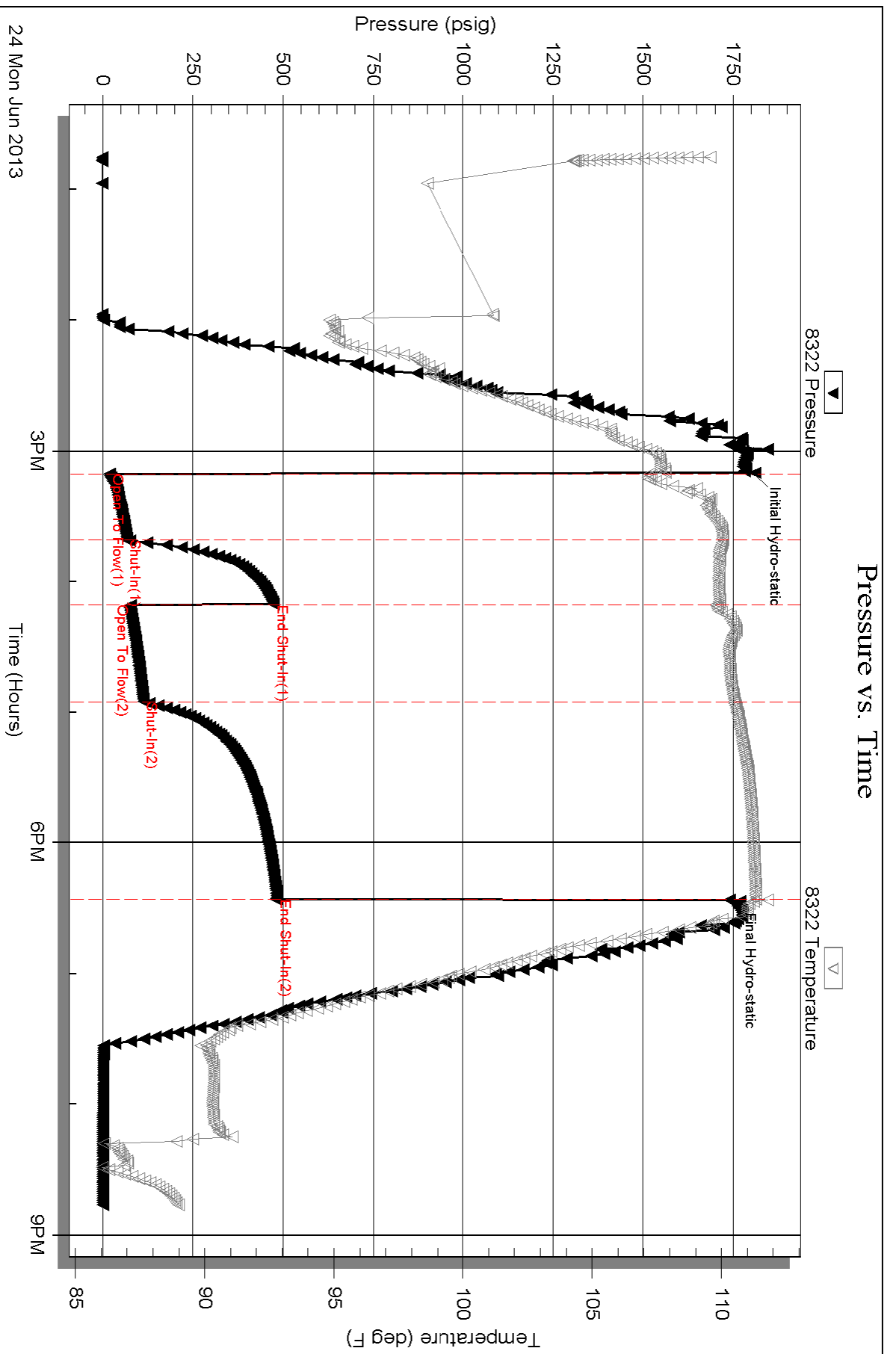
Recovery Comments: .175 @ 86

Serial #: 8322

Outside john jay darrah jr

brush creek unit 403

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 53821

Printed: 2013.06.25 @ 01:23:25