



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary Jr & Assoc inc

14-15s-16w Ellis

1515 Wynkoop
STE 700
Denver Co 80202
ATTN: Chris Mitchell

Murphy 1-14

Job Ticket: 53343

DST#: 1

Test Start: 2013.09.01 @ 22:28:01

GENERAL INFORMATION:

Formation: **LKC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:25:30

Time Test Ended: 07:28:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Andy Carreira

Unit No: 68

Interval: 3245.00 ft (KB) To 3280.00 ft (KB) (TVD)

Reference Elevations: 1920.00 ft (KB)

Total Depth: 3280.00 ft (KB) (TVD)

1910.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8321 Inside

Press @ Run Depth: 304.61 psig @ 3246.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.01

End Date:

2013.09.02

Last Calib.:

2013.09.02

Start Time: 22:28:01

End Time:

07:28:30

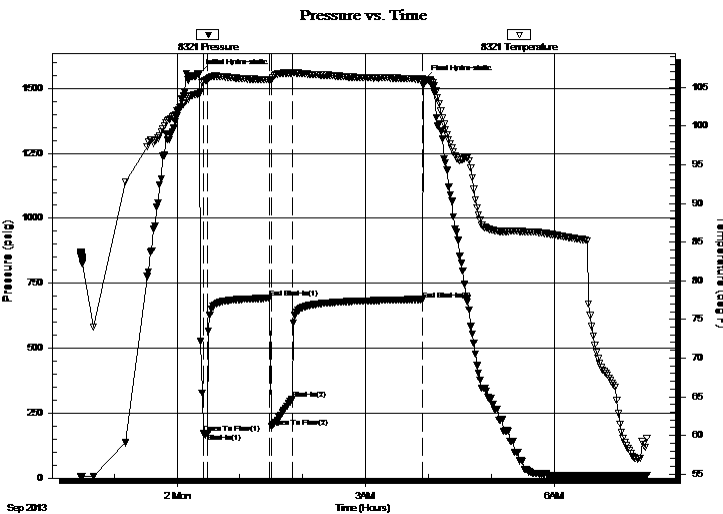
Time On Btm:

2013.09.02 @ 00:21:30

Time Off Btm:

2013.09.02 @ 03:56:00

TEST COMMENT: IF:(5min) BOB 2 min
IS:(60min) 1/2" return blow
FF:(20min) BOB 1 min
FS:(120min) Return blow BOB 20 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1557.91	104.20	Initial Hydro-static
4	171.23	105.69	Open To Flow (1)
8	173.28	106.00	Shut-In(1)
67	692.26	105.98	End Shut-In(1)
69	197.30	105.87	Open To Flow (2)
89	304.61	106.80	Shut-In(2)
213	687.42	106.05	End Shut-In(2)
215	1532.32	106.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	MW m=10% w=90%	2.81
120.00	OCW o=15% w=85%	1.68
300.00	HWCGO g=40% w=30% o=30%	4.21
120.00	GOCMWg=10% m=20% o=30% w=40%	1.68
0.00	GIP=2080ft	0.00

Gas Rates

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



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TESTING, INC.**

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FLUID SUMMARY

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Job Ticket: 53343

DST#: 1

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Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 8.78 in³
Resistivity: ohm.m
Salinity: 4100.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 125000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	MW m=10% w=90%	2.805
120.00	OCW o=15% w=85%	1.683
300.00	HWCGO g=40% w=30% o=30%	4.208
120.00	GOCMWg=10% m=20% o=30% w=40%	1.683
0.00	GIP=2080ft	0.000

Total Length: 740.00 ft Total Volume: 10.379 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Sampler- g=2000ml o=800ml w=1200ml m=tr pressure=500lbs
Resistivity- .083@58deg=125000

Serial #: 8321

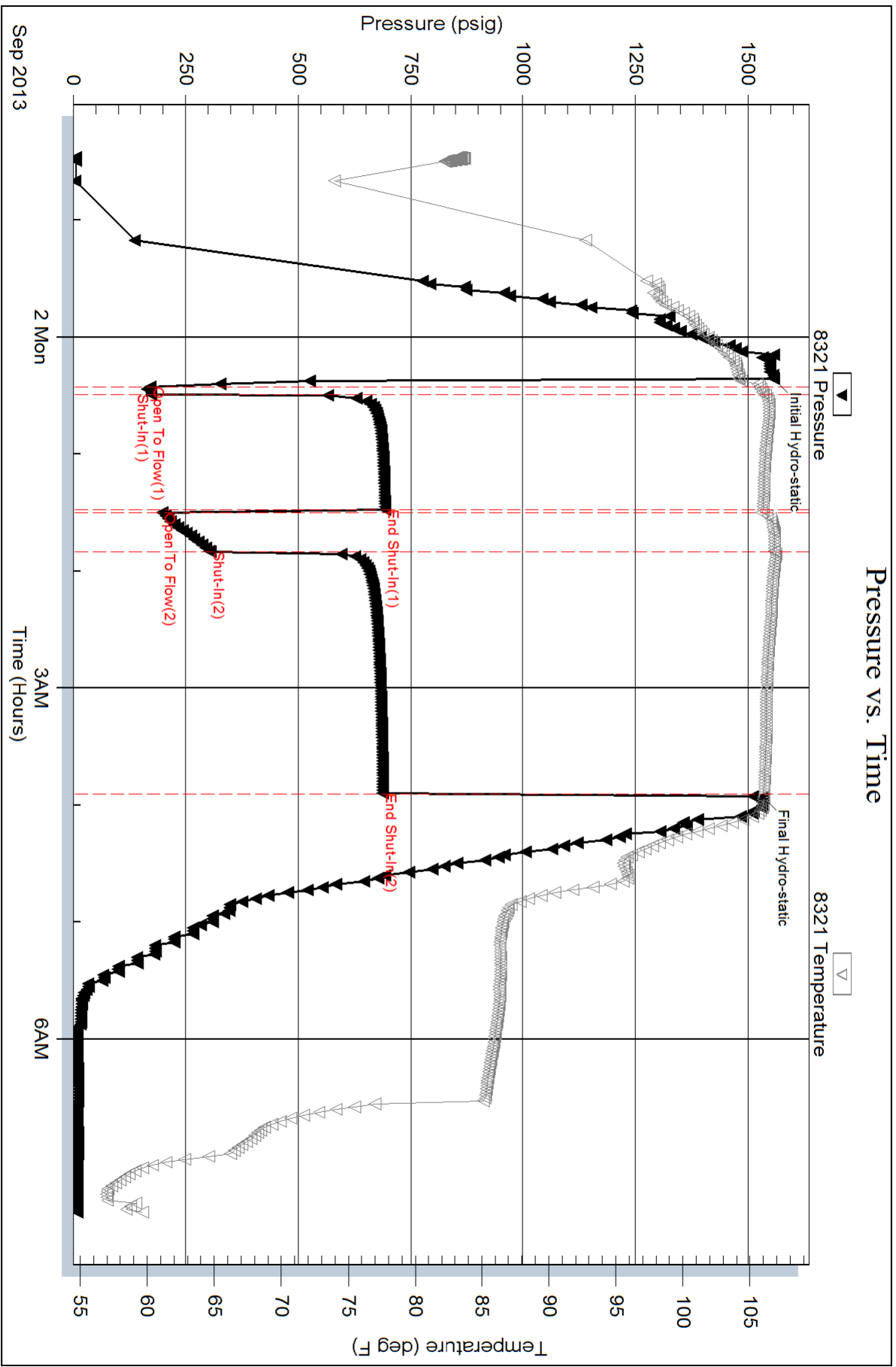
Inside

Sam Gary Jr & Assoc inc

Murphy 1-14

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 53343

Printed: 2013.09.02 @ 10:39:06

Serial #: 8647

Fluid

Sam Gary Jr & Assoc inc

Murphy 1-14

DST Test Number: 1

