



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Robert F Hembree

35-18s-24w Ness

PO Box 542
Ness City Ks 67560-0542

Schwartzkopf #2

Job Ticket: 55462

DST#: 1

ATTN: Fred Hembree, Jim Mu

Test Start: 2013.12.18 @ 17:25:44

GENERAL INFORMATION:

Formation: **FT Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:23:24

Time Test Ended: 01:00:53

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 70

Interval: 4190.00 ft (KB) To 4240.00 ft (KB) (TVD)

Reference Elevations: 2293.00 ft (KB)

Total Depth: 4240.00 ft (KB) (TVD)

2286.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8369 Inside

Press @ Run Depth: 196.67 psig @ 4204.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.18

End Date:

2013.12.19

Last Calib.:

2013.12.19

Start Time:

17:25:44

End Time:

01:00:53

Time On Btm:

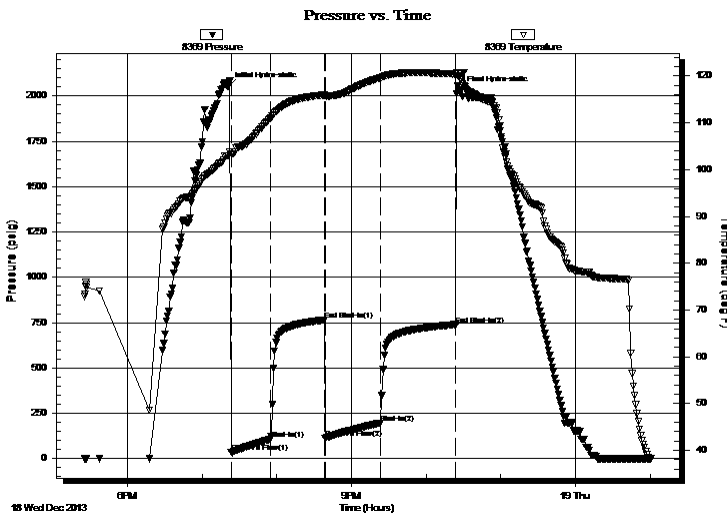
2013.12.18 @ 19:21:09

Time Off Btm:

2013.12.18 @ 22:27:53

TEST COMMENT: 30-IFP-w k to strg in 9min
45-ISIP-surface to 1/4"bl bk
45-FFP-w k to strg in 14min
60-FSIP-surface bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2049.97	103.04	Initial Hydro-static
3	34.76	103.33	Open To Flow (1)
34	108.25	111.03	Shut-In(1)
78	764.67	115.94	End Shut-In(1)
78	113.06	115.75	Open To Flow (2)
123	196.67	119.61	Shut-In(2)
183	738.42	120.41	End Shut-In(2)
187	2031.97	119.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	365'GIP	0.00
65.00	GMO 10%G15%W15%M60%O	0.91
60.00	SO&GCMW 10%G5%O35%M50%W	0.84
248.00	Water	3.48

Gas Rates

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



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FLUID SUMMARY

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Job Ticket: 55462

DST#: 1

ATTN: Fred Hembree, Jim Mu

Test Start: 2013.12.18 @ 17:25:44

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:

80000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.35 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	365'GIP	0.000
65.00	GMO 10%G15%W15%M60%O	0.912
60.00	SO&GCMW 10%G5%O35%M50%W	0.842
248.00	Water	3.479

Total Length: 373.00 ft

Total Volume: 5.233 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .11 @60F

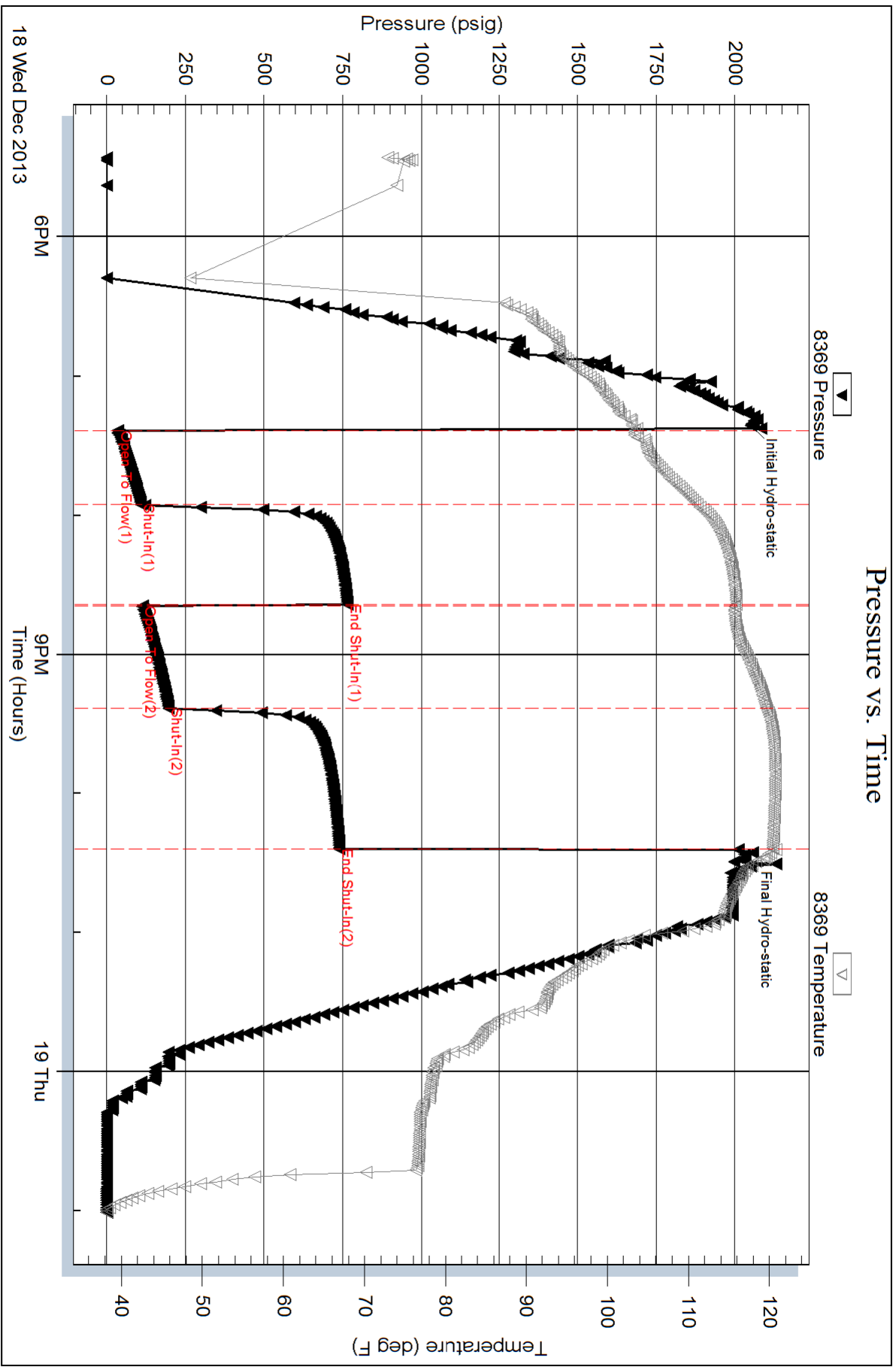
Serial #: 8369

Inside

Robert F Herbrree

Schw artzkopf #2

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 55462

Printed: 2013.12.19 @ 08:04:16