



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cholla Production LLC
 7851 S. Elatin ST STE 201
 Littleton CO, 80120
 ATTN: Bill Guff

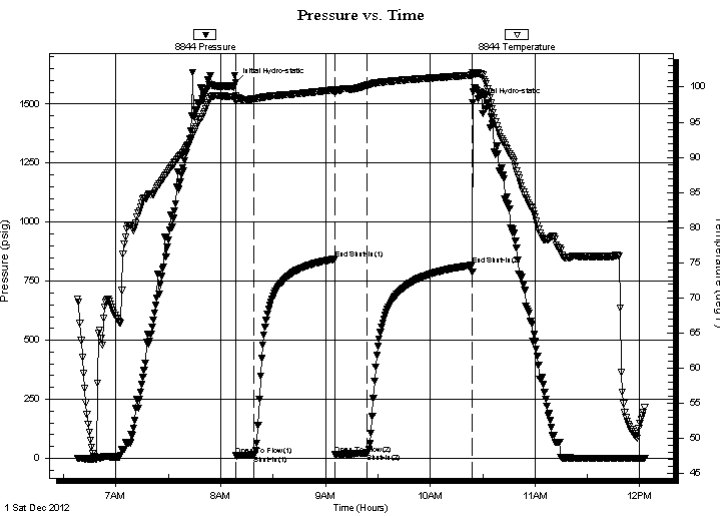
8-11s-22w Trego KS
Patterson 1-8
 Job Ticket: 51560 **DST#: 1**
 Test Start: 2012.12.01 @ 06:38:00

GENERAL INFORMATION:

Formation: **Topeka**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:08:40
 Time Test Ended: 12:03:20
 Interval: **3298.00 ft (KB) To 3330.00 ft (KB) (TVD)**
 Total Depth: 3330.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Cody Bloedorn
 Unit No: 39
 Reference Elevations: 2203.00 ft (KB)
 2198.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8844 Outside
 Press @ Run Depth: 20.78 psig @ 3299.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.12.01 End Date: 2012.12.01 Last Calib.: 2012.12.01
 Start Time: 06:38:05 End Time: 12:03:20 Time On Btm: 2012.12.01 @ 08:08:35
 Time Off Btm: 2012.12.01 @ 10:24:15

TEST COMMENT: 10 - IF- Surface blow
 45 - IS- No blow back
 20 - FF- No blow
 60 - FS- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1590.81	98.72	Initial Hydro-static
1	10.89	97.88	Open To Flow (1)
11	14.27	98.32	Shut-In(1)
57	843.52	99.60	End Shut-In(1)
57	16.77	99.13	Open To Flow (2)
76	20.78	100.25	Shut-In(2)
136	817.72	101.69	End Shut-In(2)
136	1505.95	102.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud, With Oil spots, 100%M	0.05

Gas Rates

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



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FLUID SUMMARY

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8-11s-22w Trego KS

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Patterson 1-8

Job Ticket: 51560

DST#: 1

ATTN: Bill Guff

Test Start: 2012.12.01 @ 06:38:00

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:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud, With Oil spots, 100%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

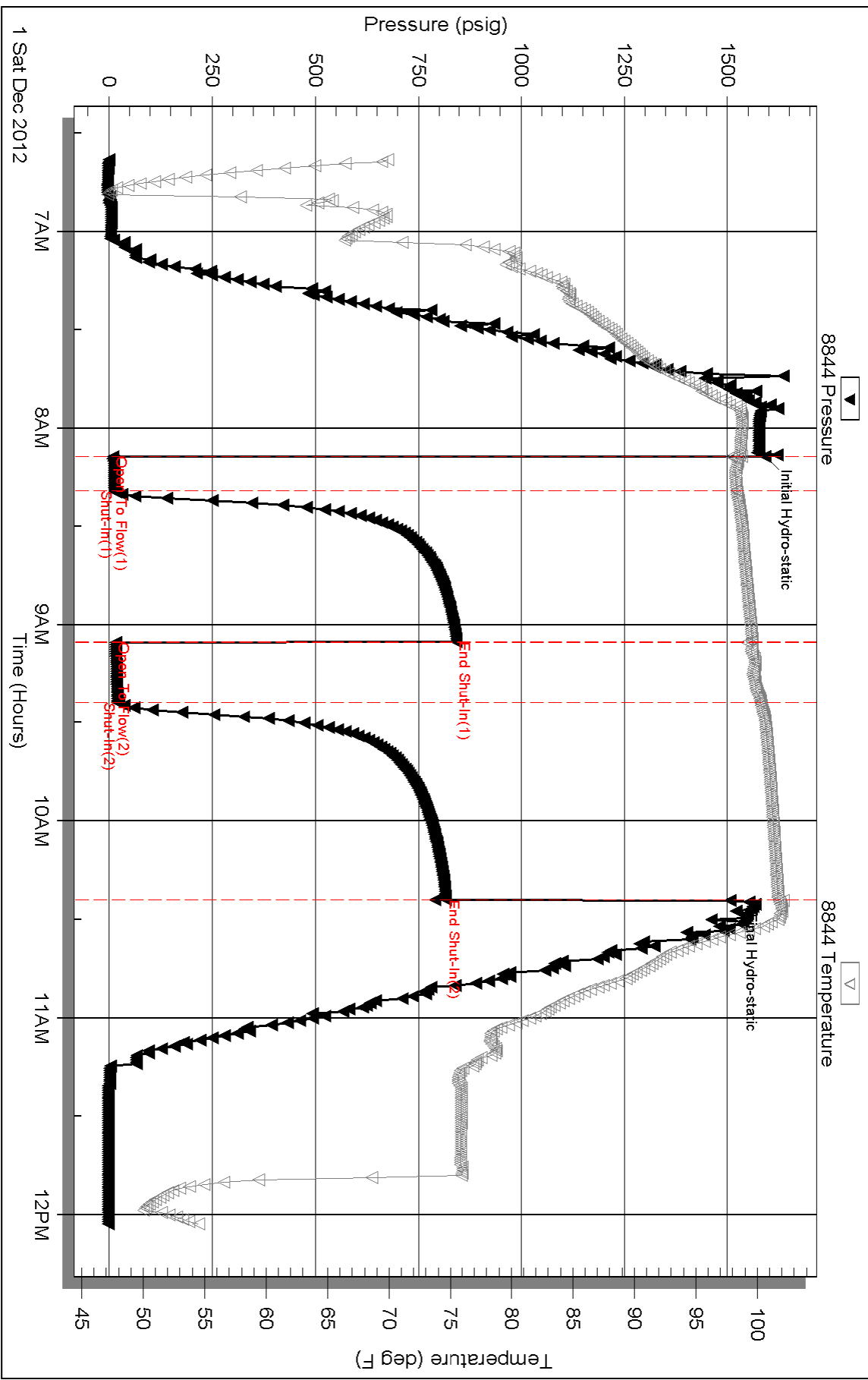
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler:

Pressure vs. Time



Serial #: 8372

Inside

Cholla Production LLC

Patterson 1-8

DST Test Number: 1

