



DRILL STEM TEST REPORT

Prepared For: **Berexco LLC.**

2020 N Bramblewood
Wichita KS 67206

ATTN: David Gould

Katheryn #1

29-23s-23w Hodgeman,KS

Start Date: 2012.11.02 @ 18:25:00

End Date: 2012.11.03 @ 02:34:00

Job Ticket #: 51084 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC.

29-23s-23w Hodgeman, KS

2020 N Bramblewood
Wichita KS 67206

Katheryn #1

Job Ticket: 51084

DST#: 1

ATTN: David Gould

Test Start: 2012.11.02 @ 18:25:00

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:43:30

Time Test Ended: 02:34:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Wilbur Steinbeck

Unit No: 59

Interval: 4671.00 ft (KB) To 4678.00 ft (KB) (TVD)

Reference Elevations: 2416.00 ft (KB)

Total Depth: 4678.00 ft (KB) (TVD)

2403.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8319 Outside

Press @ Run Depth: 405.96 psig @ 4617.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.02

End Date:

2012.11.03

Last Calib.: 2012.11.03

Start Time: 18:25:05

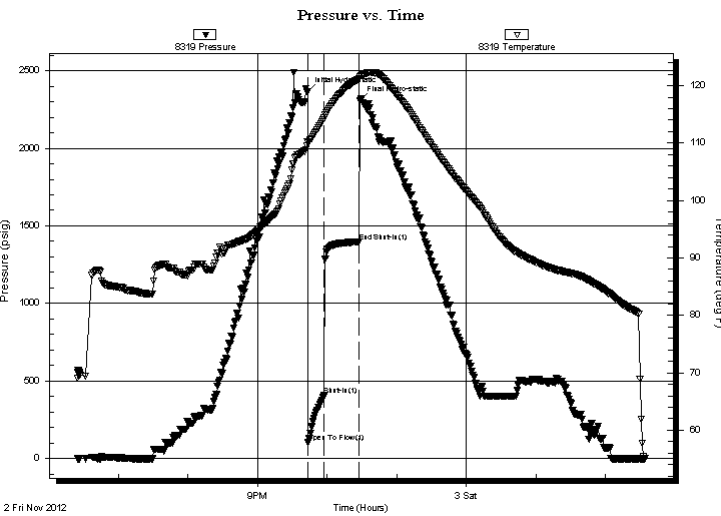
End Time:

02:33:59

Time On Btm: 2012.11.02 @ 21:43:00

Time Off Btm: 2012.11.02 @ 22:28:30

TEST COMMENT: 15 IF; BOB in 45 sec
30 IS; BOB in 4 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2367.92	110.20	Initial Hydro-static
1	103.06	109.95	Open To Flow (1)
15	405.96	114.33	Shut-In(1)
45	1396.65	121.20	End Shut-In(1)
46	2305.74	121.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	WOGCM 5%W 15%G 20%O 60%M	0.91
809.00	Rev out WMGCO 1%W 2%M 30%G 67%O	7.25
155.00	GO 40%G 60%O	2.17
0.00	315' GIP	0.00

Gas Rates

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



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TOOL DIAGRAM

Berexco LLC.

29-23s-23w Hodgeman,KS

2020 N Bramblewood
Wichita KS 67206

Katheryn #1

Job Ticket: 51084

DST#: 1

ATTN: David Gould

Test Start: 2012.11.02 @ 18:25:00

Tool Information

Drill Pipe:	Length: 3961.00 ft	Diameter: 3.80 inches	Volume: 55.56 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 636.00 ft	Diameter: 2.25 inches	Volume: 3.13 bbl	Weight to Pull Loose: 108000.0 lb
			<u>Total Volume: 58.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 99000.00 lb
Depth to Top Packer:	4616.00 ft			Final 104000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	35.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4589.00	
Shut In Tool	5.00			4594.00	
Hydraulic tool	5.00			4599.00	
Jars	5.00			4604.00	
Safety Joint	2.00			4606.00	
Packer	5.00			4611.00	28.00 Bottom Of Top Packer
Packer	5.00			4616.00	
Stubb	1.00			4617.00	
Recorder	0.00	8166	Inside	4617.00	
Recorder	0.00	8319	Outside	4617.00	
Perforations	3.00			4620.00	
Bullnose	3.00			4623.00	7.00 Bottom Packers & Anchor

Total Tool Length: 35.00



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FLUID SUMMARY

Berexco LLC.

29-23s-23w Hodgeman,KS

2020 N Bramblewood
Wichita KS 67206

Katheryn #1

Job Ticket: 51084

DST#: 1

ATTN: David Gould

Test Start: 2012.11.02 @ 18:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
186.00	WOGCM 5%W 15%G 20%O 60%M	0.915
809.00	Rev out WMGCO 1%W 2%M 30%G 67%O	7.249
155.00	GO 40%G 60%O	2.174
0.00	315' GIP	0.000

Total Length: 1150.00 ft Total Volume: 10.338 bbl

Num Fluid Samples: 0

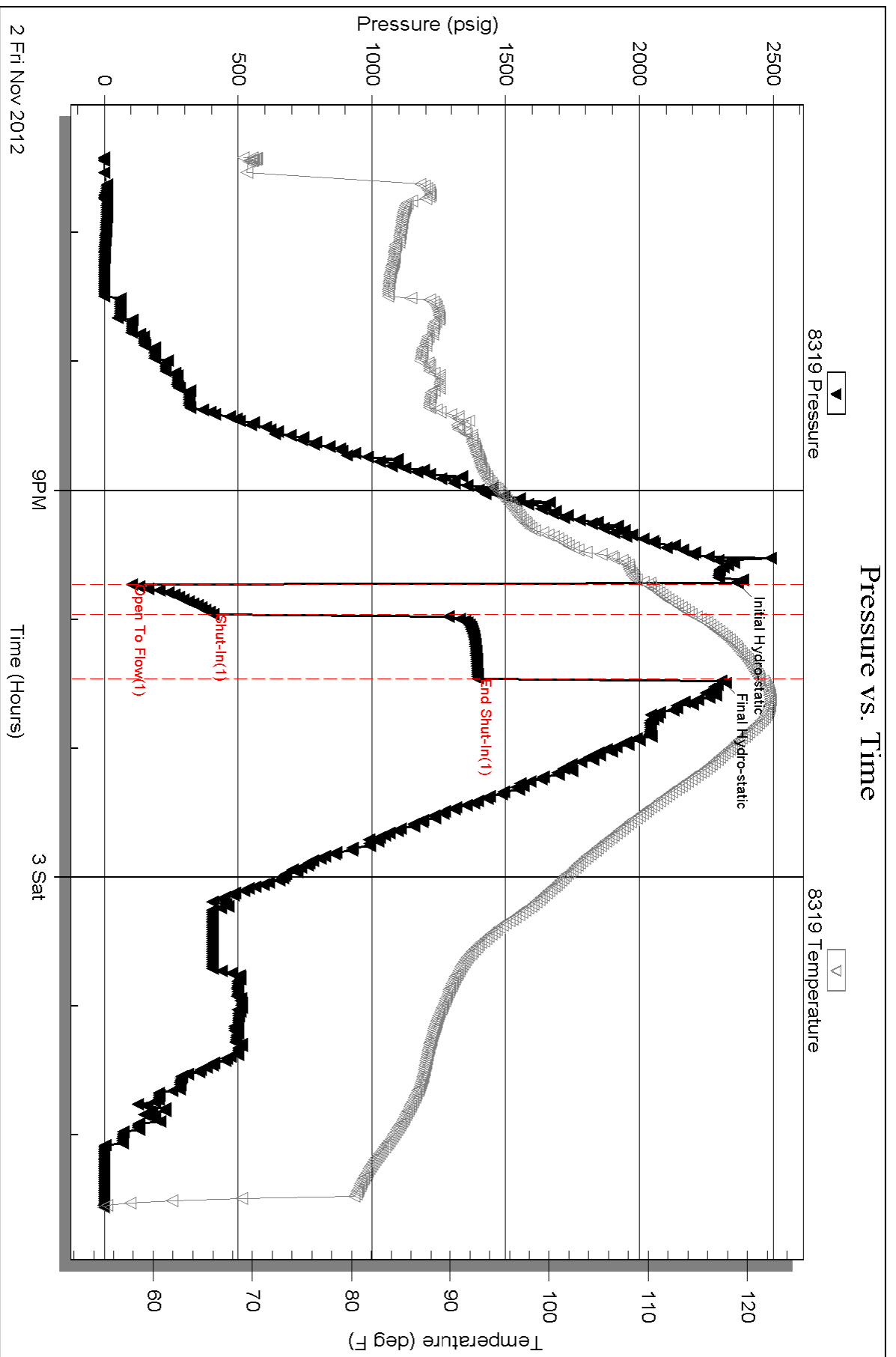
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Dropped the bar. The Reversed out % are based on 10 sample avg.



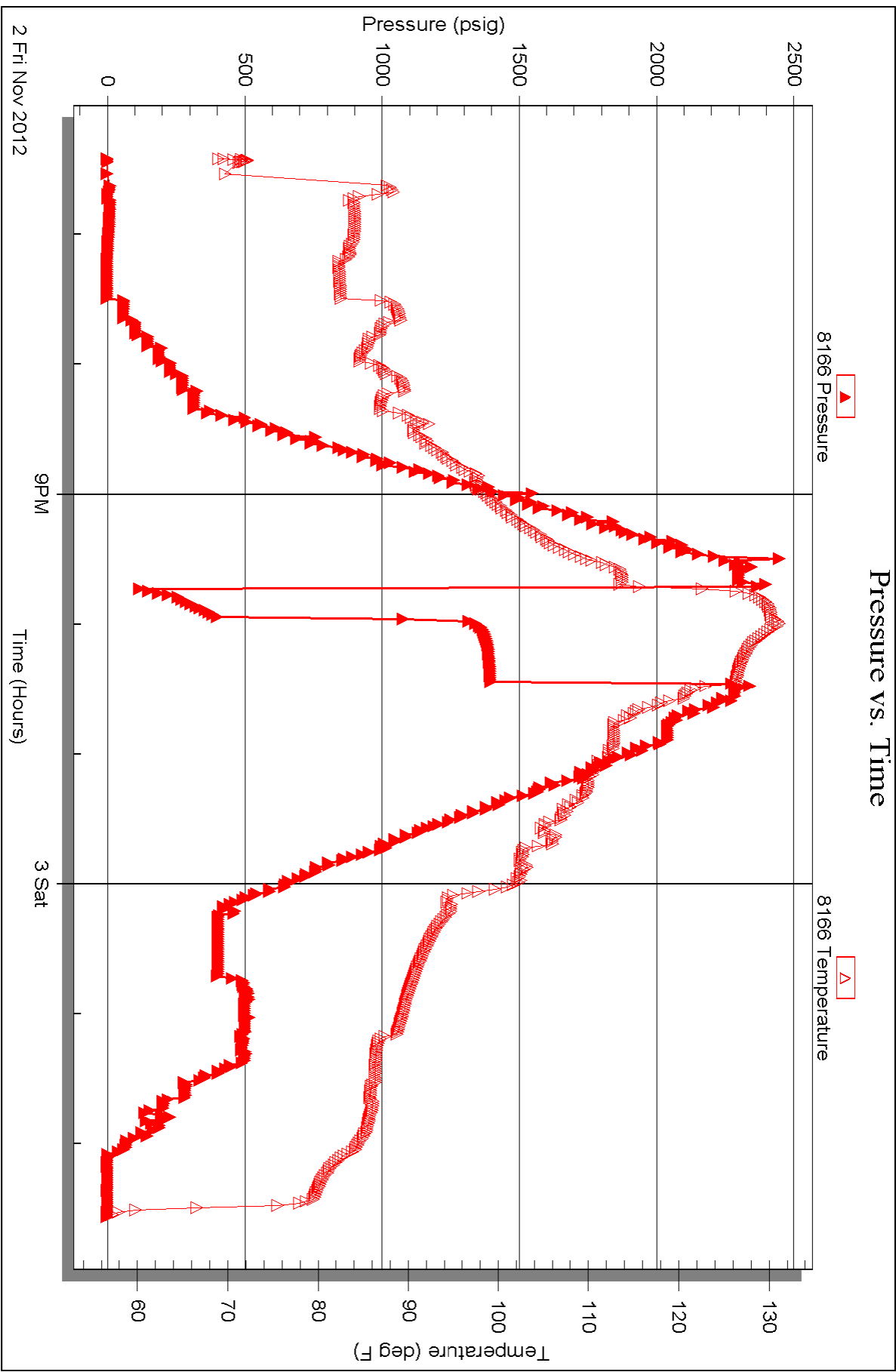
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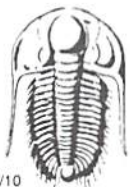
Inside

Berexco LLC

Kathryn #1

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51084

Well Name & No. Kathryn 1 Test No. 1 Date 10-2-12
 Company Berco LLC Elevation 2416 KB 2403 GL
 Address 2020 N Bramblewood Wichita Ks 67206
 Co. Rep / Geo. Dan Gauld Rig Bredco 2
 Location: Sec. 29 Twp. 23S Rge. 23W Co. Hodgeman State Ks

Interval Tested 4671 4678 Zone Tested Cherokee
 Anchor Length 7 Drill Pipe Run 3961 Mud Wt. 9.5
 Top Packer Depth 4666 Drill Collars Run 636 Vis 47
 Bottom Packer Depth 4671 Wt. Pipe Run 0 WL 8.8
 Total Depth 4678 Chlorides 5000 ppm System LCM 2
 Blow Description IF; BOB in 45 sec
IF; BOB in 4min

Rec	Feet of		%gas	%oil	%water	%mud
<u>155</u>	<u>60</u>	<u>40</u>	<u>60</u>			
<u>809</u>	<u>Reversed out 809'</u>	<u>30</u>	<u>67</u>	<u>1</u>	<u>2</u>	
<u>-</u>	<u>WMGCO</u>					
<u>186</u>	<u>WGOCM</u>	<u>15</u>	<u>20</u>	<u>5</u>	<u>60</u>	
<u>315</u>	<u>Gas in PIPE</u>					

Rec Total 1150 BHT 121°F Gravity 3.8056° = 37.2 @ °F Chlorides ppm
 (A) Initial Hydrostatic 2368 Test 1250 T-On Location 14:15
 (B) First Initial Flow 103 Jars 250 T-Started 18:25
 (C) First Final Flow 406 Safety Joint 75 T-Open 21:45
 (D) Initial Shut-In 1397 Circ Sub Dropped Bar 50 T-Pulled 22:30
 (E) Second Initial Flow X Hourly Standby 1 1/2 150 T-Out 2:30
 (F) Second Final Flow X Mileage 185 RT 286.75 Comments Dropped Bar
 (G) Final Shut-In Sampler Reversed out
 (H) Final Hydrostatic 2306 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 2061.75
 Accessibility MP/DST Disc't
 Sub Total 2061.75

Approved By _____ Our Representative [Signature]

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