



1158873

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

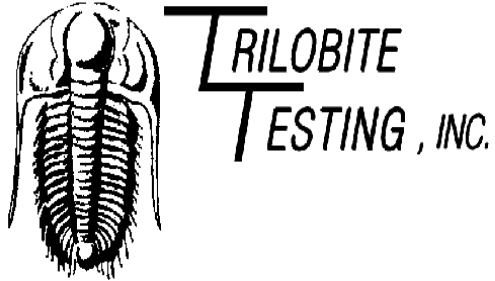
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc.**

2020 N.Tyler Rd.Ste.106
Wichita KS 67212

ATTN: Kent Roberts

Thom Ranch #3-29

29-30s-11w Barber,KS

Start Date: 2013.08.28 @ 08:30:44

End Date: 2013.08.28 @ 15:55:59

Job Ticket #: 52298 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.04 @ 14:46:31

Roberts Resources Inc.

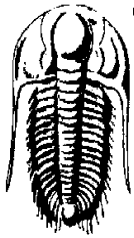
29-30s-11w Barber,KS

Thom Ranch #3-29

DST # 1

Upper Douglas

2013.08.28



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Roberts Resources Inc.
 2020 N.Tyler Rd.Ste.106
 Wichita KS 67212
 ATTN: Kent Roberts

29-30s-11w Barber,KS

Thom Ranch #3-29

Job Ticket: 52298 **DST#: 1**
 Test Start: 2013.08.28 @ 08:30:44

GENERAL INFORMATION:

Formation: **Upper Douglas**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:22:29
 Time Test Ended: 15:55:59
 Interval: **3726.00 ft (KB) To 3770.00 ft (KB) (TVD)**
 Total Depth: 3770.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gary Pevoteaux
 Unit No: 56
 Reference Elevations: 1822.00 ft (KB)
 1811.00 ft (CF)
 KB to GR/CF: 11.00 ft

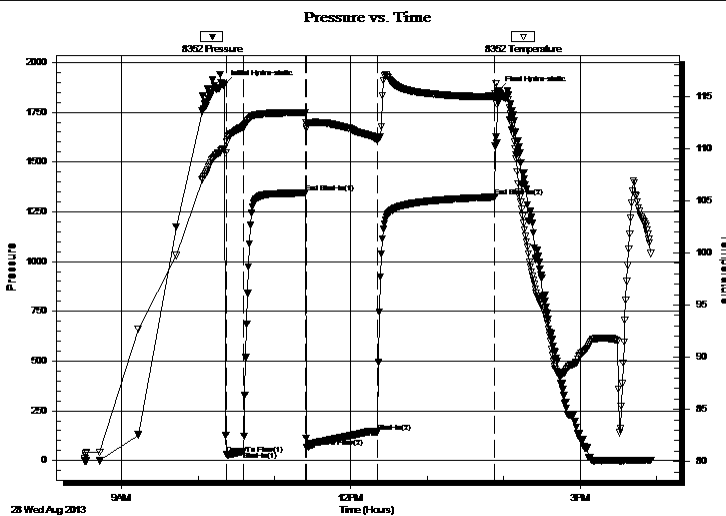
Serial #: 8352

Inside

Press @ Run Depth: 142.85 psig @ 3727.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.28 End Date: 2013.08.28 Last Calib.: 2013.08.28
 Start Time: 08:30:49 End Time: 15:55:58 Time On Btm: 2013.08.28 @ 10:20:44
 Time Off Btm: 2013.08.28 @ 13:56:14

TEST COMMENT: IF: Strong blow . B.O.B. in 5 secs.
 IS: GTS in 20 secs. No blow back.
 FF: Strong blow . (see gas flow report)
 FS: No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1890.40	110.01	Initial Hydro-static
2	31.94	110.62	Open To Flow (1)
15	48.16	112.06	Shut-In(1)
64	1343.66	113.43	End Shut-In(1)
65	67.05	111.91	Open To Flow (2)
120	142.85	110.85	Shut-In(2)
213	1323.97	115.02	End Shut-In(2)
216	1857.97	115.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
115.00	Drig.mud	1.61
75.00	WM 41%w 59%m	1.05

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	27.00	150.92
Last Gas Rate	0.38	42.00	205.87
Max. Gas Rate	0.38	42.00	205.87



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources Inc.
2020 N.Tyler Rd.Ste.106
Wichita KS 67212
ATTN: Kent Roberts

29-30s-11w Barber,KS
Thom Ranch #3-29
Job Ticket: 52298 **DST#: 1**
Test Start: 2013.08.28 @ 08:30:44

Tool Information

Drill Pipe:	Length: 3718.00 ft	Diameter: 3.80 inches	Volume: 52.15 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 79000.00 lb
			<u>Total Volume: 52.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3726.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3707.00	
Shut in tool	5.00			3712.00	
HMV	5.00			3717.00	
Packer	4.00			3721.00	20.00 Bottom Of Top Packer
Packer	5.00			3726.00	
Stubb	1.00			3727.00	
Recorder	0.00	8352	Inside	3727.00	
Recorder	0.00	8370	Outside	3727.00	
Perforations	6.00			3733.00	
Blank Spacing	32.00			3765.00	
Bullnose	5.00			3770.00	44.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc.
2020 N.Tyler Rd.Ste.106
Wichita KS 67212
ATTN: Kent Roberts

29-30s-11w Barber,KS
Thom Ranch #3-29
Job Ticket: 52298 **DST#: 1**
Test Start: 2013.08.28 @ 08:30:44

Mud and Cushion Information

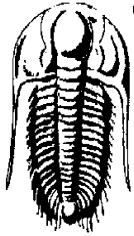
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: 121000 ppm	
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.57 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
115.00	Drig.mud	1.613
75.00	WM 41%w 59%m	1.052

Total Length: 190.00 ft Total Volume: 2.665 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments: Rw .065 @ 90deg



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Roberts Resources Inc.

29-30s-11w Barber,KS

2020 N.Tyler Rd.Ste.106
Wichita KS 67212

Thom Ranch #3-29

Job Ticket: 52298

DST#: 1

ATTN: Kent Roberts

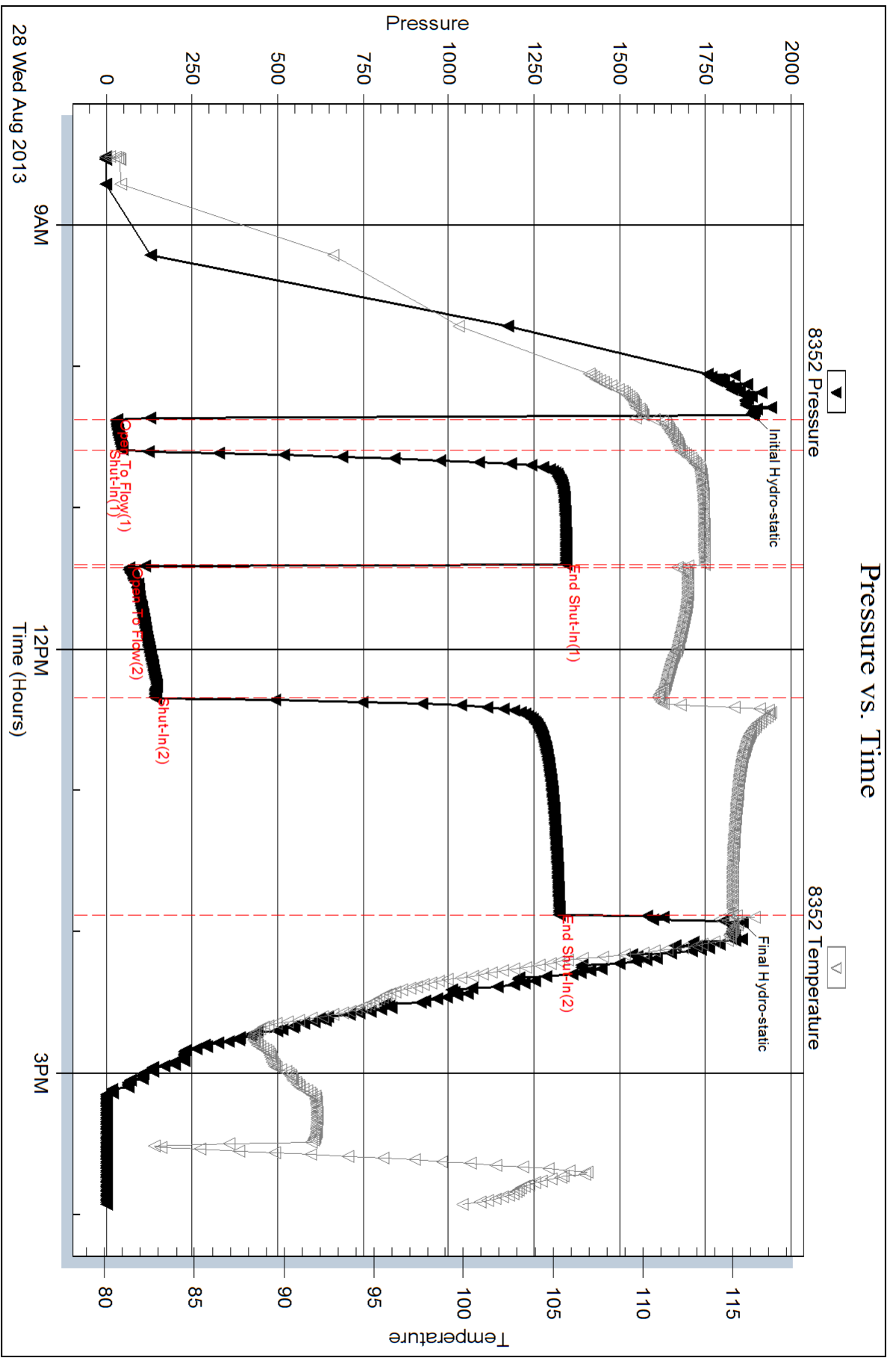
Test Start: 2013.08.28 @ 08:30:44

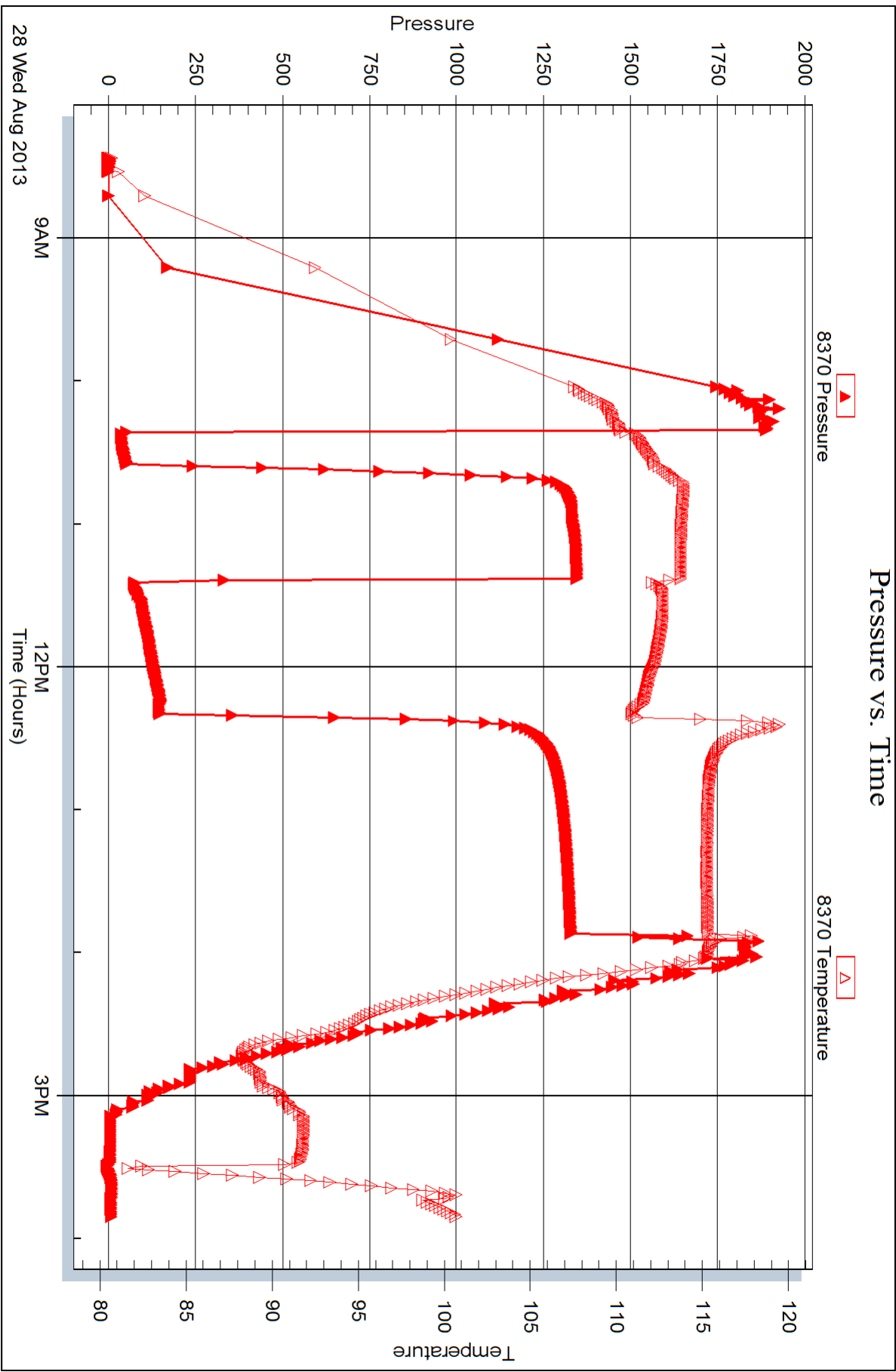
Gas Rates Information

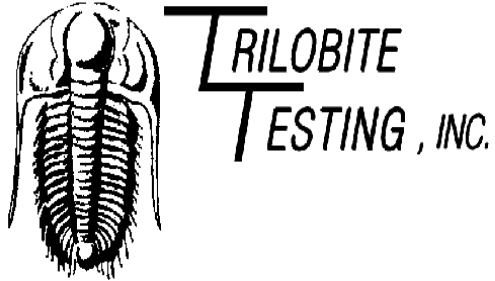
Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.38	27.00	150.92
2	20	0.38	29.00	158.25
2	30	0.38	32.00	169.24
2	40	0.38	36.00	183.89
2	50	0.38	39.00	194.88
2	60	0.38	42.00	205.87







DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc.**

2020 N.Tyler Rd.Ste.106
Wichita KS 67212

ATTN: Kent Roberts

Thom Ranch #3-29

29-30s-11w Barber,KS

Start Date: 2013.08.29 @ 18:27:52

End Date: 2013.08.30 @ 01:36:22

Job Ticket #: 52299 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.04 @ 14:51:48



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Roberts Resources Inc.
 2020 N.Tyler Rd.Ste.106
 Wichita KS 67212
 ATTN: Kent Roberts

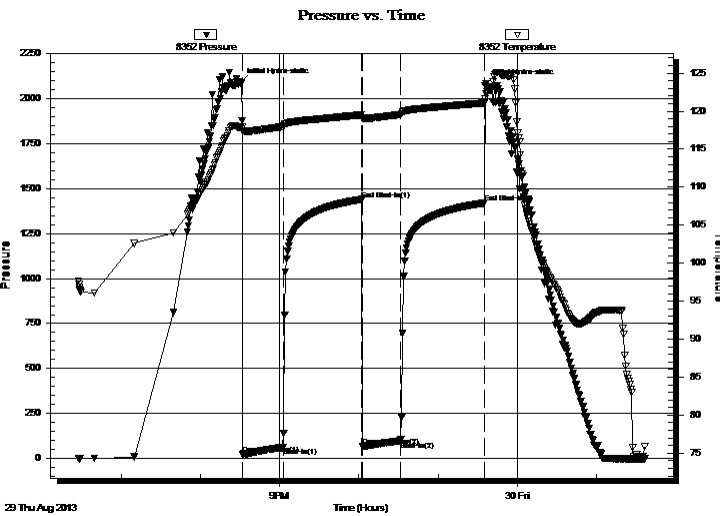
29-30s-11w Barber,KS
Thom Ranch #3-29
 Job Ticket: 52299 **DST#: 2**
 Test Start: 2013.08.29 @ 18:27:52

GENERAL INFORMATION:

Formation: **Swope**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:31:52
 Time Test Ended: 01:36:22
 Interval: **4249.00 ft (KB) To 4265.00 ft (KB) (TVD)**
 Total Depth: 4265.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 56
 Reference Elevations: 1822.00 ft (KB)
 1811.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8352 Inside
 Press @ Run Depth: 98.82 psig @ 4250.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.29 End Date: 2013.08.30 Last Calib.: 2013.08.30
 Start Time: 18:27:57 End Time: 01:36:21 Time On Btm: 2013.08.29 @ 20:30:37
 Time Off Btm: 2013.08.29 @ 23:36:07

TEST COMMENT: IF:Weak to fair blow . Increase to 5 1/2".
 IS:No blow .
 FF:Weak blow . 1/2 - 2".
 FS:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2085.89	117.95	Initial Hydro-static
2	21.76	117.44	Open To Flow (1)
32	63.97	117.95	Shut-In(1)
92	1439.45	119.53	End Shut-In(1)
92	66.50	119.05	Open To Flow (2)
121	98.82	119.55	Shut-In(2)
184	1419.29	121.08	End Shut-In(2)
186	2082.08	122.35	Final Hydro-static

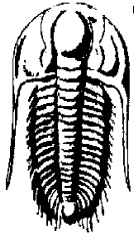
Recovery

Length (ft)	Description	Volume (bbl)
132.00	MW 7% _m 93% _w (good odor)	1.85

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources Inc.

29-30s-11w Barber,KS

2020 N.Tyler Rd.Ste.106
Wichita KS 67212

Thom Ranch #3-29

Job Ticket: 52299

DST#: 2

ATTN: Kent Roberts

Test Start: 2013.08.29 @ 18:27:52

Tool Information

Drill Pipe:	Length: 4254.00 ft	Diameter: 3.80 inches	Volume: 59.67 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 59.67 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	57000.00 lb
Depth to Top Packer:	4249.00 ft			Final	57500.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	16.00 ft				
Tool Length:	36.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4230.00	
Shut in tool	5.00			4235.00	
HMV	5.00			4240.00	
Packer	4.00			4244.00	20.00 Bottom Of Top Packer
Packer	5.00			4249.00	
Stubb	1.00			4250.00	
Recorder	0.00	8352	Inside	4250.00	
Recorder	0.00	8370	Outside	4250.00	
Perforations	10.00			4260.00	
Bullnose	5.00			4265.00	16.00 Bottom Packers & Anchor
Total Tool Length:	36.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc.
2020 N.Tyler Rd.Ste.106
Wichita KS 67212
ATTN: Kent Roberts

29-30s-11w Barber,KS
Thom Ranch #3-29
Job Ticket: 52299 **DST#: 2**
Test Start: 2013.08.29 @ 18:27:52

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: 116000 ppm	
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.96 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

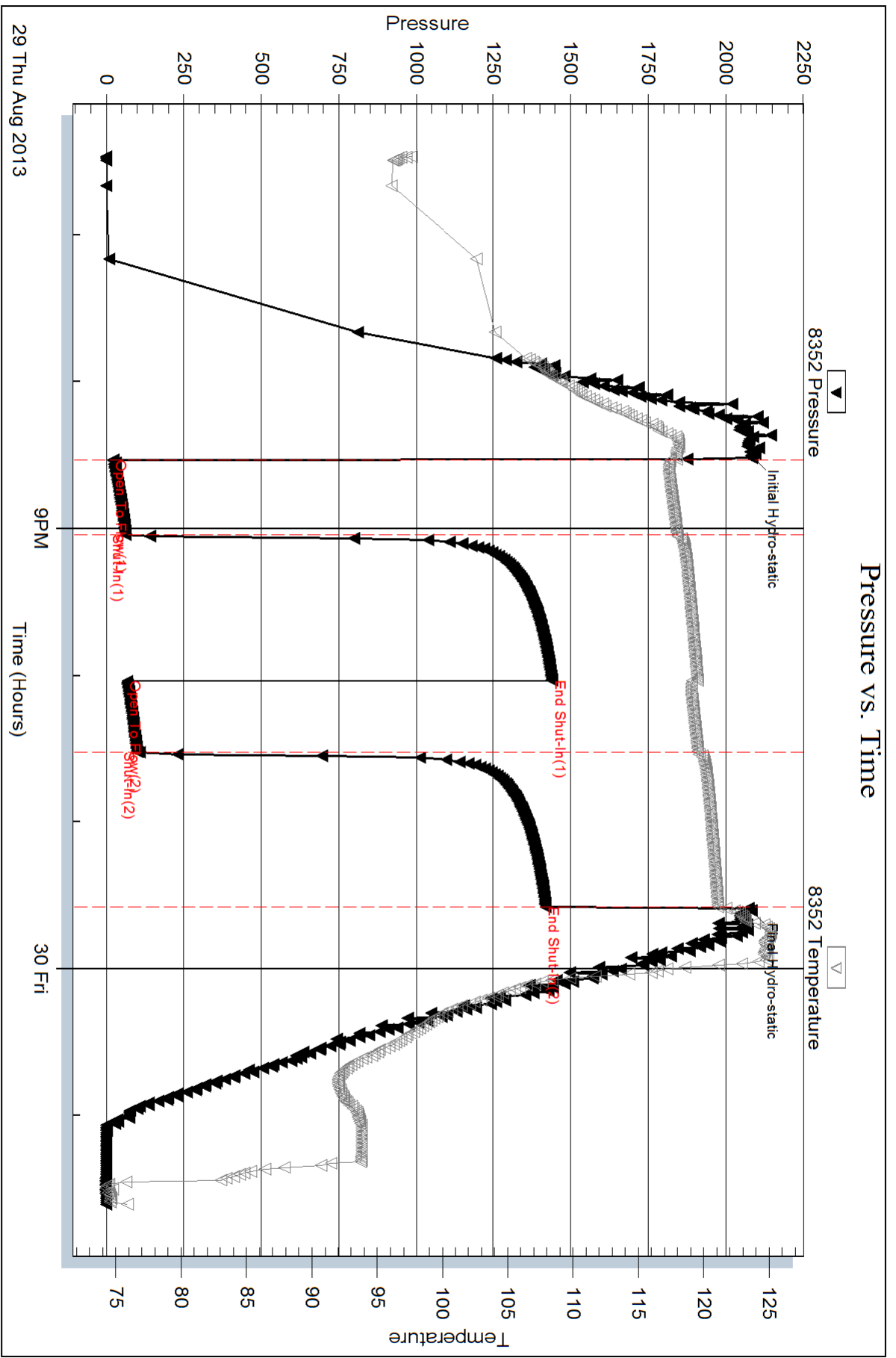
Length ft	Description	Volume bbl
132.00	MW 7% _m 93% _w (good odor)	1.852

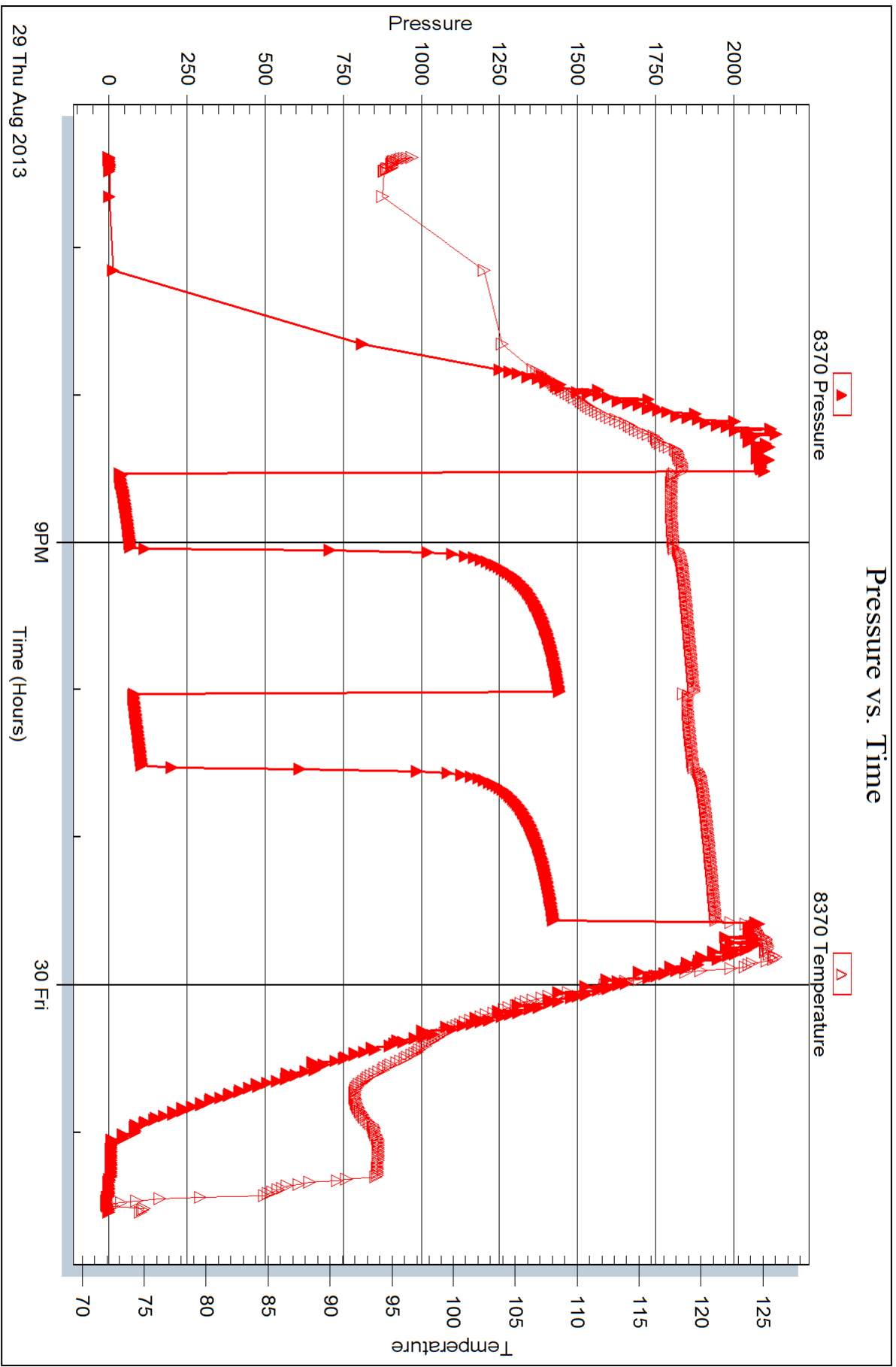
Total Length: 132.00 ft Total Volume: 1.852 bbl

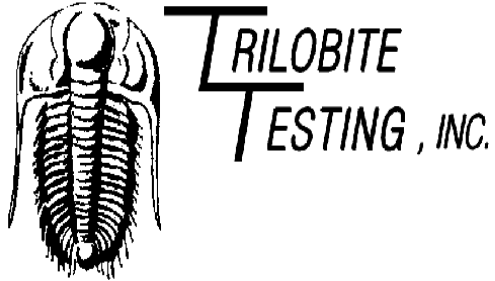
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments: Rw .07ohms @ 75deg







DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc.**

2020 N.Tyler Rd.Ste.106
Wichita KS 67212

ATTN: Kent Roberts

Thom Ranch #3-29

29-30s-11w Barber,KS

Start Date: 2013.08.30 @ 18:38:14

End Date: 2013.08.31 @ 02:11:29

Job Ticket #: 52300 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.04 @ 14:51:09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Roberts Resources Inc.
 2020 N.Tyler Rd.Ste.106
 Wichita KS 67212
 ATTN: Kent Roberts

29-30s-11w Barber,KS
Thom Ranch #3-29
 Job Ticket: 52300 **DST#: 3**
 Test Start: 2013.08.30 @ 18:38:14

GENERAL INFORMATION:

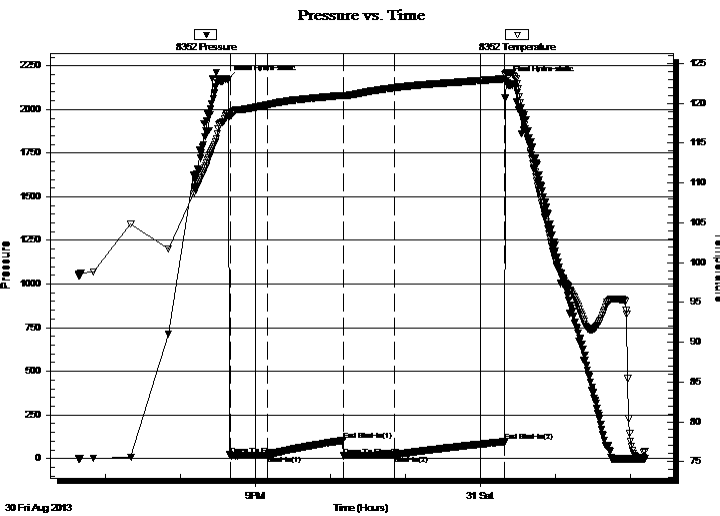
Formation: **Miss.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:39:29
 Time Test Ended: 02:11:29
 Interval: **4413.00 ft (KB) To 4445.00 ft (KB) (TVD)**
 Total Depth: 4445.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 56
 Reference Elevations: 1822.00 ft (KB)
 1811.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8352

Inside

Press @ Run Depth: 21.25 psig @ 4414.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.30 End Date: 2013.08.31 Last Calib.: 2013.08.31
 Start Time: 18:38:19 End Time: 02:11:28 Time On Btm: 2013.08.30 @ 20:37:14
 Time Off Btm: 2013.08.31 @ 00:20:29

TEST COMMENT: IF:Weak blow . Increase to 4".
 IS:No blow .
 FF:Weak blow . 2 - 4".
 FS:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2170.90	118.72	Initial Hydro-static
3	16.97	118.42	Open To Flow (1)
33	19.12	119.81	Shut-In(1)
93	103.67	121.00	End Shut-In(1)
94	14.99	120.96	Open To Flow (2)
134	21.25	121.95	Shut-In(2)
222	96.41	123.07	End Shut-In(2)
224	2164.22	123.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	SOCM 2%o 98%m	0.21
0.00	120 ft.of GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources Inc.
2020 N.Tyler Rd.Ste.106
Wichita KS 67212
ATTN: Kent Roberts

29-30s-11w Barber,KS
Thom Ranch #3-29
Job Ticket: 52300 **DST#: 3**
Test Start: 2013.08.30 @ 18:38:14

Tool Information

Drill Pipe:	Length: 4411.00 ft	Diameter: 3.80 inches	Volume: 61.87 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 81000.00 lb
			<u>Total Volume: 61.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4413.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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C.O. Sub	1.00			4394.00	
Shut in tool	5.00			4399.00	
HMV	5.00			4404.00	
Packer	4.00			4408.00	20.00 Bottom Of Top Packer
Packer	5.00			4413.00	
Stubb	1.00			4414.00	
Recorder	0.00	8352	Inside	4414.00	
Recorder	0.00	8370	Outside	4414.00	
Perforations	26.00			4440.00	
Bullnose	5.00			4445.00	32.00 Bottom Packers & Anchor
Total Tool Length:	52.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc.
2020 N.Tyler Rd.Ste.106
Wichita KS 67212
ATTN: Kent Roberts

29-30s-11w Barber,KS
Thom Ranch #3-29
Job Ticket: 52300 **DST#: 3**
Test Start: 2013.08.30 @ 18:38:14

Mud and Cushion Information

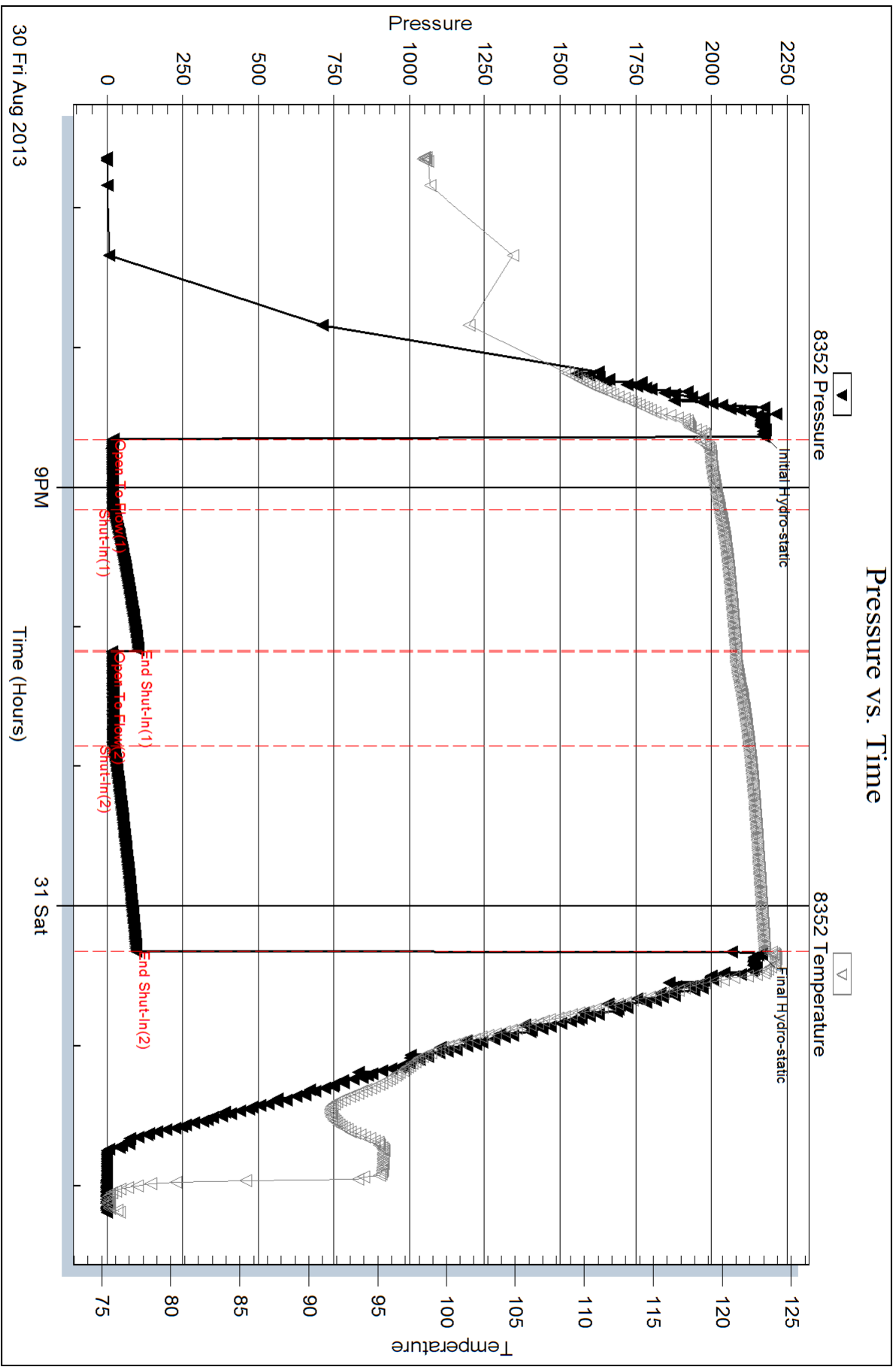
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	3000 ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	SOCM 2%o 98%m	0.210
0.00	120 ft.of GIP	0.000

Total Length: 15.00 ft Total Volume: 0.210 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:

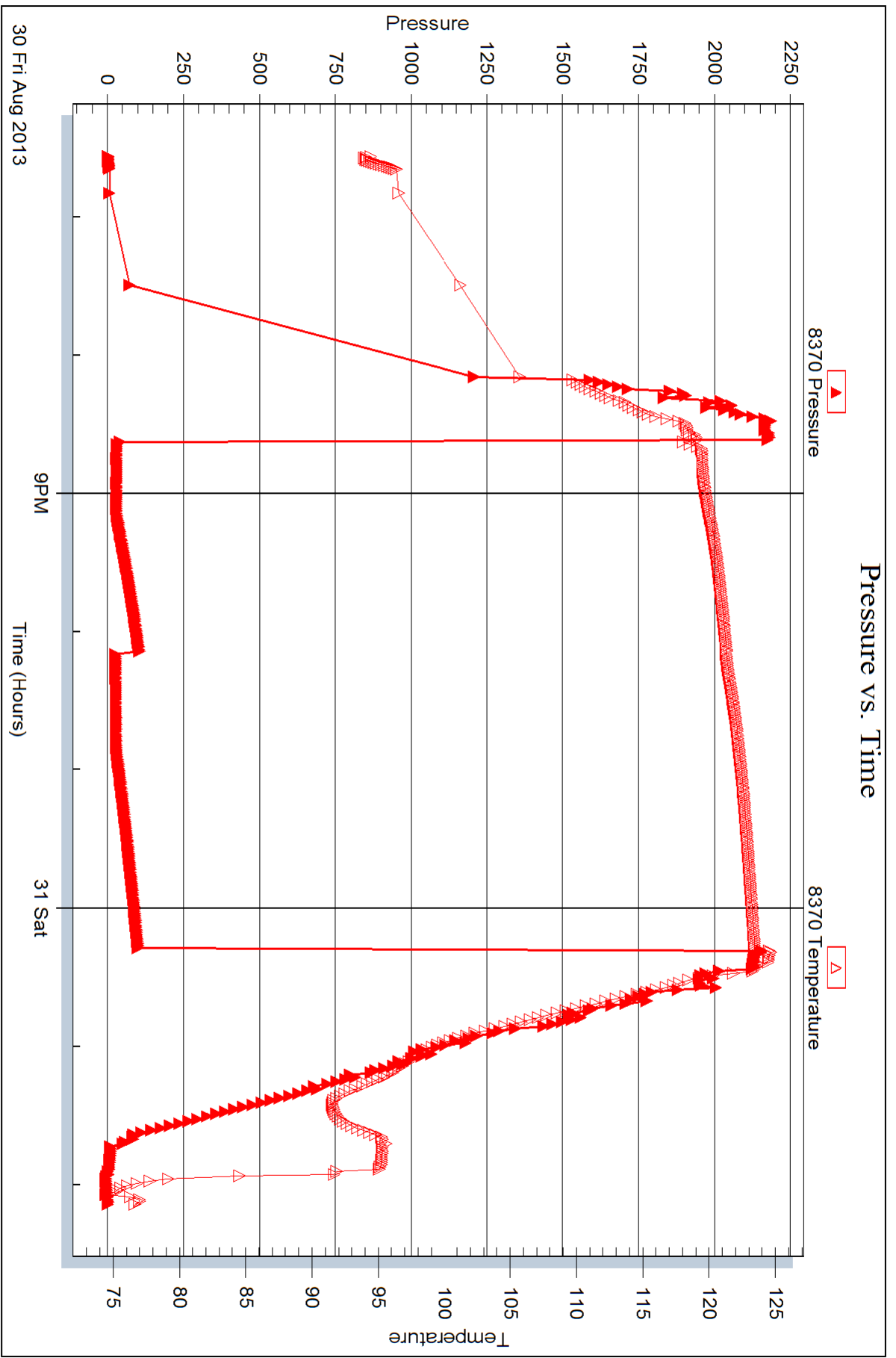


Serial #: 8370

Outside Roberts Resources Inc.

Thom Ranch #3-29

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc.**

2020 N.Tyler Rd.Ste.106
Wichita KS 67212

ATTN: Kent Roberts

Thom Ranch #3-29

29-30s-11w Barber,KS

Start Date: 2013.08.31 @ 11:33:12

End Date: 2013.08.31 @ 18:15:57

Job Ticket #: 52351 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.04 @ 14:50:39



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Roberts Resources Inc.
 2020 N.Tyler Rd.Ste.106
 Wichita KS 67212
 ATTN: Kent Roberts

29-30s-11w Barber,KS
Thom Ranch #3-29
 Job Ticket: 52351 **DST#: 4**
 Test Start: 2013.08.31 @ 11:33:12

GENERAL INFORMATION:

Formation: **Miss.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:33:57
 Time Test Ended: 18:15:57
 Interval: **4444.00 ft (KB) To 4490.00 ft (KB) (TVD)**
 Total Depth: 4490.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 56
 Reference Elevations: 1822.00 ft (KB)
 1811.00 ft (CF)
 KB to GR/CF: 11.00 ft

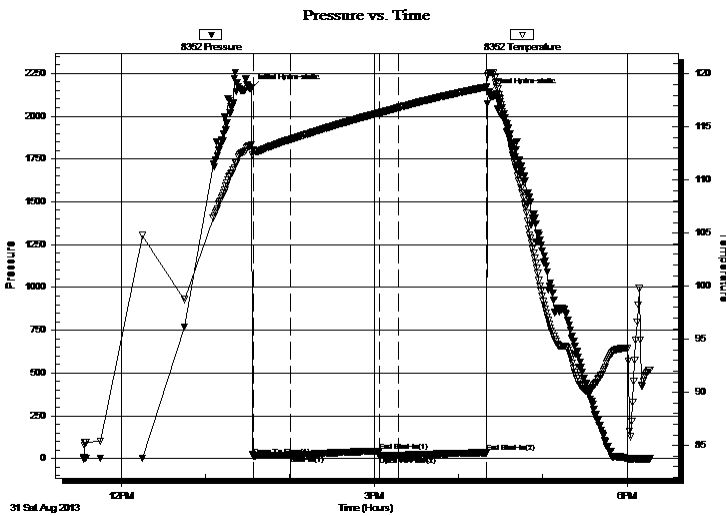
Serial #: 8352

Inside

Press @RunDepth: 19.20 psig @ 4445.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.31 End Date: 2013.08.31 Last Calib.: 2013.08.31
 Start Time: 11:33:17 End Time: 18:15:56 Time On Btm: 2013.08.31 @ 13:32:42
 Time Off Btm: 2013.08.31 @ 16:21:27

TEST COMMENT: IF:Weak blow . 1 - 2 1/2".
 IS:No blow .
 FF:Weak blow . 1 - 2".
 FS:No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2162.61	113.32	Initial Hydro-static
2	15.22	112.83	Open To Flow (1)
28	17.45	113.82	Shut-In(1)
91	44.24	116.33	End Shut-In(1)
92	15.30	116.33	Open To Flow (2)
105	19.20	116.82	Shut-In(2)
168	35.04	118.77	End Shut-In(2)
169	2135.74	120.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w oil specs.	0.14
0.00	110 ft.of GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources Inc.
2020 N.Tyler Rd.Ste.106
Wichita KS 67212
ATTN: Kent Roberts

29-30s-11w Barber,KS
Thom Ranch #3-29
Job Ticket: 52351 **DST#: 4**
Test Start: 2013.08.31 @ 11:33:12

Tool Information

Drill Pipe:	Length: 4441.00 ft	Diameter: 3.80 inches	Volume: 62.30 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 62.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4444.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

C.O. Sub	1.00			4425.00	
Shut in tool	5.00			4430.00	
HMV	5.00			4435.00	
Packer	4.00			4439.00	20.00 Bottom Of Top Packer
Packer	5.00			4444.00	
Stubb	1.00			4445.00	
Recorder	0.00	8352	Inside	4445.00	
Recorder	0.00	8370	Outside	4445.00	
Perforations	6.00			4451.00	
Blank Spacing	32.00			4483.00	
Perforations	2.00			4485.00	
Bullnose	5.00			4490.00	46.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc.
2020 N.Tyler Rd.Ste.106
Wichita KS 67212
ATTN: Kent Roberts

29-30s-11w Barber,KS
Thom Ranch #3-29
Job Ticket: 52351 **DST#: 4**
Test Start: 2013.08.31 @ 11:33:12

Mud and Cushion Information

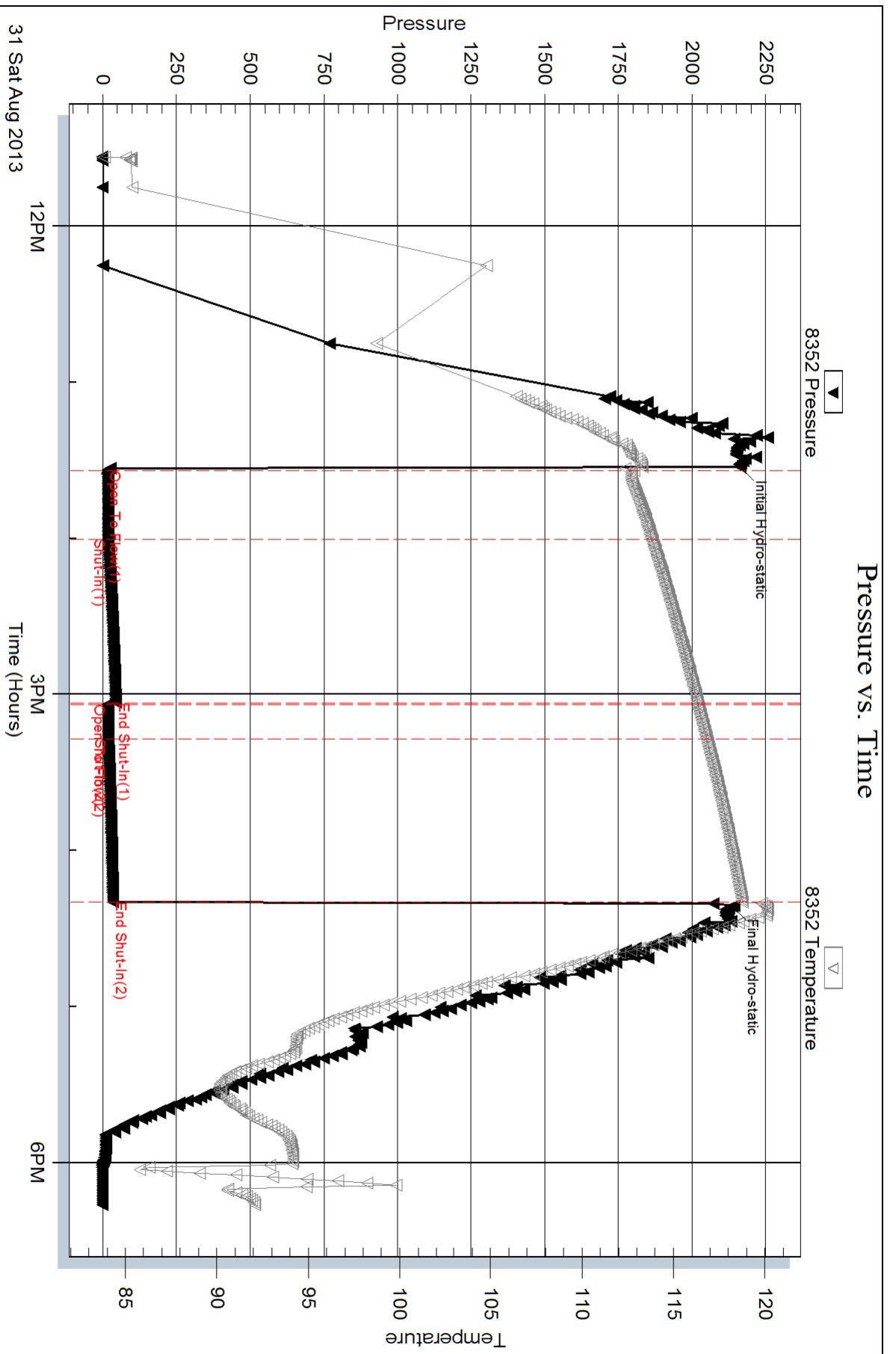
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	3000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 0.20 inches			

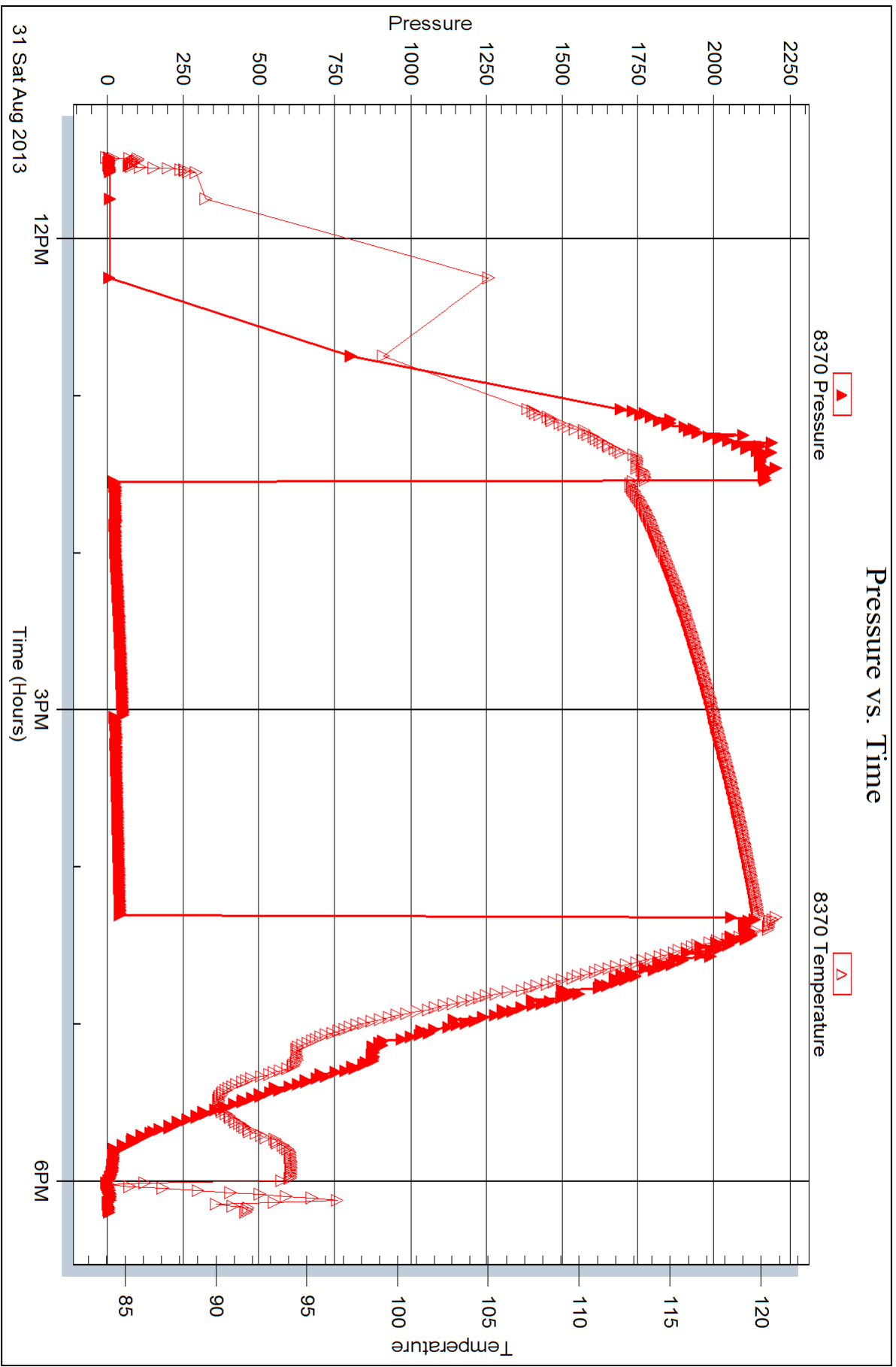
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w oil specs.	0.140
0.00	110 ft.of GIP	0.000

Total Length: 10.00 ft Total Volume: 0.140 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc.**

2020 N.Tyler Rd.Ste.106
Wichita KS 67212

ATTN: Kent Roberts

Thom Ranch #3-29

29-30s-11w Barber,KS

Start Date: 2013.09.02 @ 00:20:19

End Date: 2013.09.02 @ 06:09:19

Job Ticket #: 52352 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.04 @ 14:50:04

Roberts Resources Inc.

29-30s-11w Barber,KS

Thom Ranch #3-29

DST # 5

Simpson Sd.

2013.09.02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Roberts Resources Inc.
 2020 N.Tyler Rd.Ste.106
 Wichita KS 67212
 ATTN: Kent Roberts

29-30s-11w Barber,KS

Thom Ranch #3-29

Job Ticket: 52352 **DST#: 5**
 Test Start: 2013.09.02 @ 00:20:19

GENERAL INFORMATION:

Formation: **Simpson Sd.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:05:34
 Time Test Ended: 06:09:19
 Interval: **4766.00 ft (KB) To 4790.00 ft (KB) (TVD)**
 Total Depth: 4790.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 56
 Reference Elevations: 1822.00 ft (KB)
 1811.00 ft (CF)
 KB to GR/CF: 11.00 ft

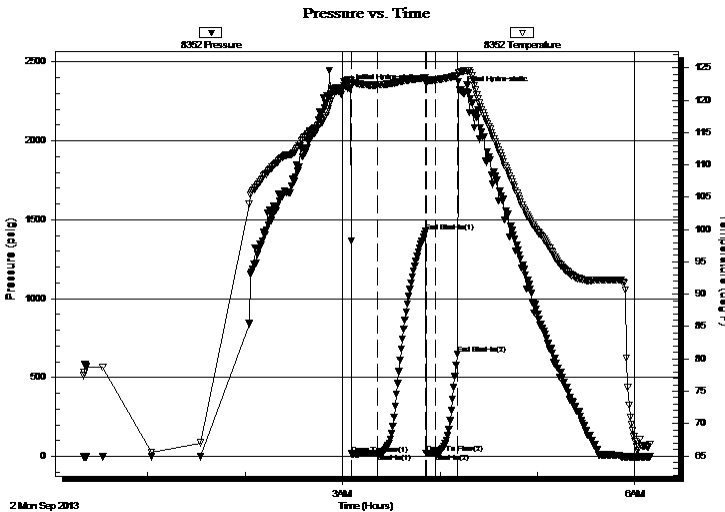
Serial #: 8352

Inside

Press @ Run Depth: 18.95 psig @ 4767.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.09.02 End Date: 2013.09.02 Last Calib.: 2013.09.02
 Start Time: 00:20:24 End Time: 06:09:18 Time On Btm: 2013.09.02 @ 03:04:04
 Time Off Btm: 2013.09.02 @ 04:12:19

TEST COMMENT: IF:Weak blow . 1/4" or less.
 IS:No blow .
 FF:No blow .
 FS:No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2332.48	123.22	Initial Hydro-static
2	17.38	122.57	Open To Flow (1)
18	19.14	122.36	Shut-In(1)
47	1425.78	123.45	End Shut-In(1)
48	18.82	122.64	Open To Flow (2)
53	18.95	123.12	Shut-In(2)
67	649.34	123.83	End Shut-In(2)
69	2321.16	124.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Drig.mud	0.04

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources Inc.
2020 N.Tyler Rd.Ste.106
Wichita KS 67212
ATTN: Kent Roberts

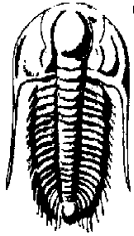
29-30s-11w Barber,KS
Thom Ranch #3-29
Job Ticket: 52352 **DST#: 5**
Test Start: 2013.09.02 @ 00:20:19

Tool Information

Drill Pipe:	Length: 4755.00 ft	Diameter: 3.80 inches	Volume: 66.70 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 66.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4766.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4747.00	
Shut in tool	5.00			4752.00	
HMV	5.00			4757.00	
Packer	4.00			4761.00	20.00 Bottom Of Top Packer
Packer	5.00			4766.00	
Stubb	1.00			4767.00	
Recorder	0.00	8352	Inside	4767.00	
Recorder	0.00	8370	Outside	4767.00	
Perforations	18.00			4785.00	
Bullnose	5.00			4790.00	24.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc.
2020 N.Tyler Rd.Ste.106
Wichita KS 67212
ATTN: Kent Roberts

29-30s-11w Barber,KS
Thom Ranch #3-29
Job Ticket: 52352 **DST#: 5**
Test Start: 2013.09.02 @ 00:20:19

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:	2000 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	8.79 in ³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2000.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Drig.mud	0.042

Total Length: 3.00 ft Total Volume: 0.042 bbl

Num Fluid Samples: 0

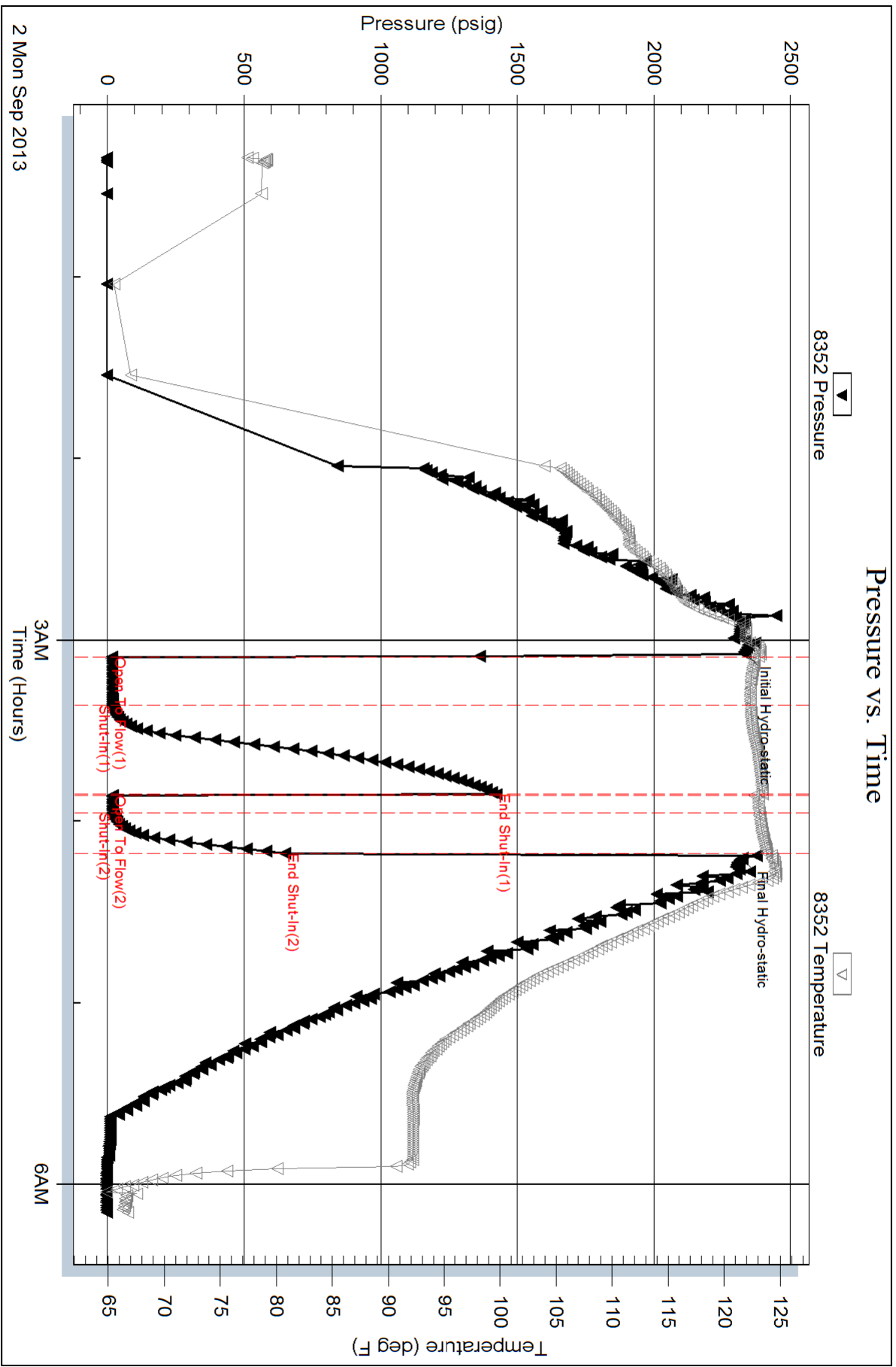
Num Gas Bombs: 0

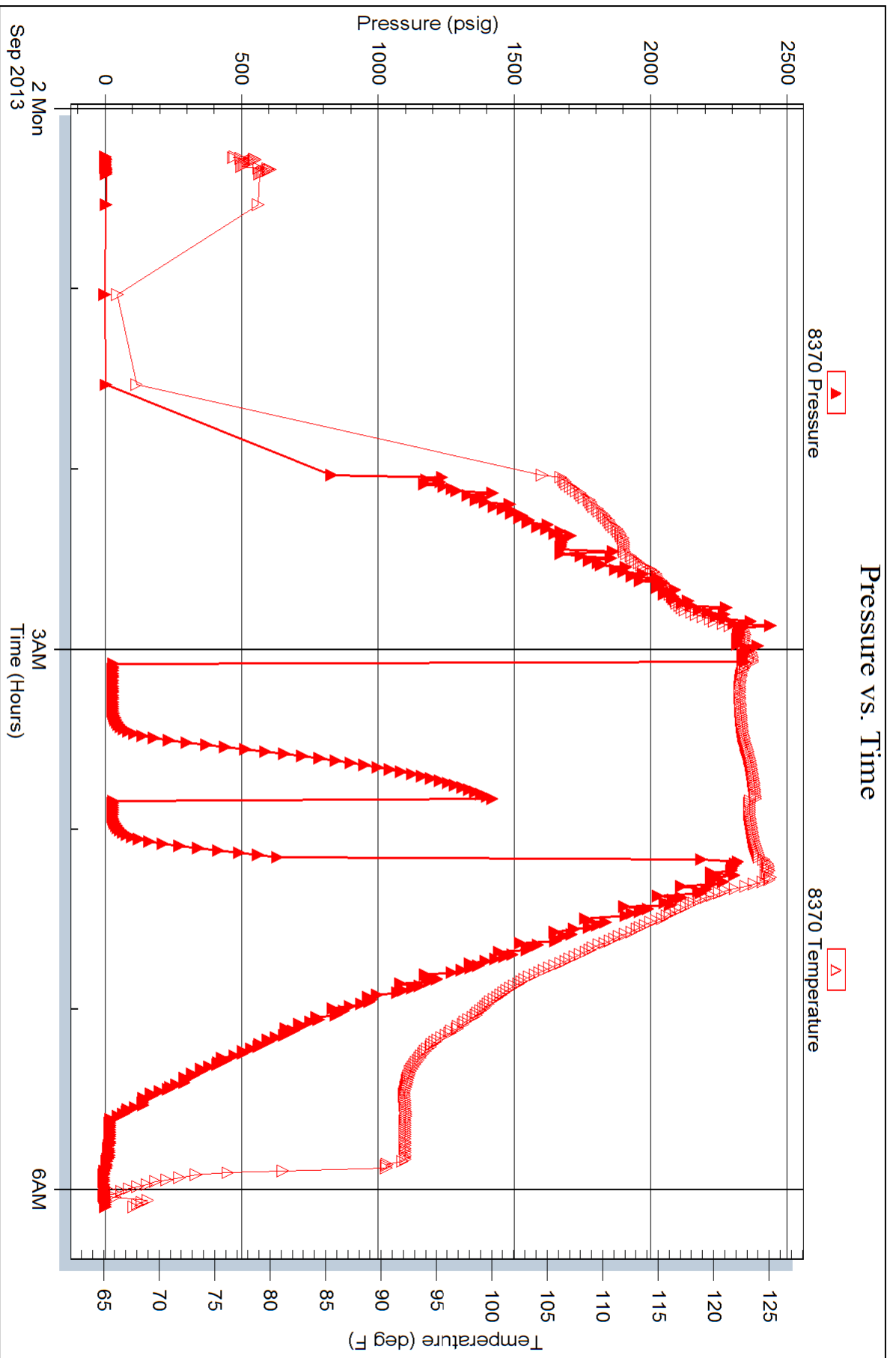
Serial #: none

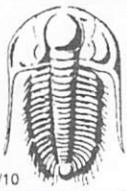
Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52298

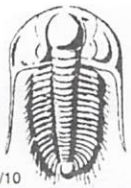
Well Name & No. THOM ^{RAUCH} # 3-29 Test No. 1 Date 8-28-13
 Company ROBERTS RESOURCES INC. Elevation 1822 KB 1811 GL
 Address 2020 N. TULER RD. STE. 106, WICHITA KS. 67212
 Co. Rep / Geo. KENT ROBERTS Rig DUKE DRILL #1
 Location: Sec. 29 Twp. 30^S Rge. 11^W Co. BARBER State KS.

Interval Tested 3726 - 3770' Zone Tested UPPER DOUGLAS
 Anchor Length 44' Drill Pipe Run 3718' Mud Wt. 9.5
 Top Packer Depth 3721' Drill Collars Run 0 Vis 47
 Bottom Packer Depth 3720' Wt. Pipe Run 0 WL 9.6cc
 Total Depth 3770' Chlorides 3000 ppm System LCM 0
 Blow Description IF: Strong blow. B.O.B. in 5 secs. FSI: GTS in 20
secs. No blow back.
FF: Strong blow. (see gas flow report) FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>115</u>	<u>Dry Mud</u>				
<u>75</u>	<u>WM</u>			<u>41</u>	<u>59</u>

Rec Total 190 BHT 1150 Gravity N/A API RW -065 @ 90 ° F Chlorides 121,000 ppm
 (A) Initial Hydrostatic 1890 Test 1150 T-On Location 0:59
 (B) First Initial Flow 32 Jars _____ T-Started 0830
 (C) First Final Flow 48 Safety Joint _____ T-Open 1022
 (D) Initial Shut-In 1344 Circ Sub _____ T-Pulled 1350
 (E) Second Initial Flow 67 Hourly Standby _____ T-Out 1555
 (F) Second Final Flow 143 Mileage (64) 99.20 Comments _____
 (G) Final Shut-In 1324 Sampler _____
 (H) Final Hydrostatic 1858 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1249.20
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1249.20
 MP/DST Disc't _____

Approved By _____ Our Representative Gary [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52299

Well Name & No. THOM RANCH # 3-29 Test No. 2 Date 8-29-13
 Company ROBERTS RESOURCES INC. Elevation 1822 KB 1811 GL
 Address 2020 N. TYLER RD STE 106, WICHITA KS. 67212
 Co. Rep / Geo. KENT ROBERTS Rig DUKE DRUG #1
 Location: Sec. 29 Twp. 30S Rge. 11W Co. BARBER State KS.

Interval Tested 4249 - 4265' Zone Tested SWOPE
 Anchor Length 16' Drill Pipe Run 4254' Mud Wt. 9.3
 Top Packer Depth 4244' Drill Collars Run 0 Vis 57
 Bottom Packer Depth 4249' Wt. Pipe Run 0 WL 9.0cc
 Total Depth 4265' Chlorides 3000 ppm System LCM 0
 Blow Description IF: Weak to fair blow. Increase to 5 1/2".
ISI: No blow.
FF: Weak blow. 1/2 - 2". FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>132</u>	<u>MW (good open)</u>			<u>93</u>	<u>7</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 132 BHT 121° Gravity N/A API RW 07 @ 75 °F Chlorides 16,000 ppm

(A) Initial Hydrostatic <u>2086</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1811</u>
(B) First Initial Flow <u>22</u>	<input type="checkbox"/> Jars	T-Started <u>1827</u>
(C) First Final Flow <u>64</u>	<input type="checkbox"/> Safety Joint	T-Open <u>2031</u>
(D) Initial Shut-In <u>1439</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>23 33 33</u>
(E) Second Initial Flow <u>67</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0136</u>
(F) Second Final Flow <u>99</u>	<input checked="" type="checkbox"/> Mileage <u>(64)</u> <u>99.20</u>	Comments
(G) Final Shut-In <u>1419</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2082</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>75</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby <u>1d 2.25h</u>	Total <u>1424.20</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1349.20</u>	

Approved By _____ Our Representative Cory Roberts
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52300

Well Name & No. THOM RANCH #3-29 Test No. 3 Date 8-30-13
 Company ROBERTS RESOURCES INC. Elevation 1822 KB 1811 GL
 Address 2020 N. TYLER RD. STE. 106, WICHITA KS. 67212
 Co. Rep / Geo. KENT ROBERTS Rig DUKE DRUG #1
 Location: Sec. 29 Twp. 30^S Rge. 11^W Co. BARBER State KS.

Interval Tested 4413-4445 Zone Tested MISS.
 Anchor Length 32' Drill Pipe Run 4411 Mud Wt. 9.3
 Top Packer Depth 4408' Drill Collars Run 0 Vis 48
 Bottom Packer Depth 4413' Wt. Pipe Run 0 WL 8.8 cc
 Total Depth 4445' Chlorides 3,000 ppm System LCM 1 1/2 #

Blow Description IF: Weak below. Increase to 4".
ISI: No below.
FF: Weak below. 2-4". FSI: No below.

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>Gas in pipe</u>				
<u>15</u>	<u>SOCM</u>		<u>2</u>		<u>98</u>

Rec Total 15 Fluid BHT 123° Gravity N/A API RW N.C.@ — ° F Chlorides 3,000 ppm

(A) Initial Hydrostatic <u>2171</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1810</u>
(B) First Initial Flow <u>17</u>	<input type="checkbox"/> Jars	T-Started <u>1838</u>
(C) First Final Flow <u>19</u>	<input type="checkbox"/> Safety Joint	T-Open <u>2039</u>
(D) Initial Shut-In <u>104</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0018</u>
(E) Second Initial Flow <u>15</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0211</u>
(F) Second Final Flow <u>21</u>	<input checked="" type="checkbox"/> Mileage <u>(44)</u> <u>99.20</u>	Comments
(G) Final Shut-In <u>96</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2164</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1349.20</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1349.20</u>	

Approved By _____ Our Representative Gary P. [Signature]
 TriLOBITE TESTING Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52351

Well Name & No. THOM RAUCH #3-29 Test No. 4 Date 8-31-13
 Company ROBERTS RESOURCEG Inc Elevation 1827 KB 1811 GL
 Address 2020 N Tyler Rd. Ste. 106, WICHITA KS. 67212
 Co. Rep / Geo. KENT ROBERTS Rig DUKE DRUG. #1
 Location: Sec. 29 Twp. 30^S Rge. 11^W Co. BARBER State KS

Interval Tested 4444-4490' Zone Tested MISS.
 Anchor Length 46' Drill Pipe Run 4441' Mud Wt. 9.2
 Top Packer Depth 4439' Drill Collars Run 0 Vis 58
 Bottom Packer Depth 4444' Wt. Pipe Run 0 WL 8.8cc
 Total Depth 4490' Chlorides 3000 ppm System LCM III
 Blow Description IF: Weak below 1-2 1/2" ISI: No below.

FF: Weak below 1-2" FSI: No below.

Rec	Feet of	%gas	%oil	%water	%mud
<u>110</u>	<u>Gas in pipe</u>				
<u>10</u>	<u>Mud w oil specs.</u>				

Rec Total 10 Fluid BHT 119° Gravity N/A API RW n.c. @ ~ ° F Chlorides 3,000 ppm
 (A) Initial Hydrostatic 2163 Test 1250 T-On Location 1113
 (B) First Initial Flow 15 Jars _____ T-Started 1133
 (C) First Final Flow 17 Safety Joint _____ T-Open 1333
 (D) Initial Shut-In 44 Circ Sub _____ T-Pulled 1616
 (E) Second Initial Flow 15 Hourly Standby _____ T-Out 1815
 (F) Second Final Flow 19 Mileage (64) 99.20 Comments _____
 (G) Final Shut-In 35 Sampler _____
 (H) Final Hydrostatic 2136 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 0
 Final Flow 15 Day Standby _____ Total 1349.20
 Final Shut-In 60 Accessibility _____ MP/DST Disc _____
 Sub Total 1349.20

Approved By Kent Roberts Our Representative Gary D. [Signature]
 TriLOBITE TESTING Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52352

Well Name & No. THOM RANCH #3-29 Test No. S Date 9-2-13
 Company ROBERTS RESOURCES INC. Elevation 1822 KB 1811 GL
 Address 2020 N. TYLER RD. STE. 106, WICHITA KS. 67212
 Co. Rep / Geo. KENT ROBERTS Rig DUKE DRUG #1
 Location: Sec. 29 Twp. 30S Rge. 11W Co. BARBER State Ks.

Interval Tested 4766 ~ 4790' Zone Tested SIMPSON SD.
 Anchor Length 24' Drill Pipe Run 4755' Mud Wt. 9.1
 Top Packer Depth 4761' Drill Collars Run 0 Vis 50
 Bottom Packer Depth 4766' Wt. Pipe Run 0 WL 8.8cc
 Total Depth 4790' Chlorides 2000 ppm System LCM 2#
 Blow Description IF: Weak blow. 1/4" or less. ISI: No blow.

FF: No blow. EST: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>Dry Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 3 BHT 124° Gravity N/A API RW N.C. @ ~ ° F Chlorides 2000 ppm
 (A) Initial Hydrostatic 2332 Test 1250 T-On Location 0002
 (B) First Initial Flow 17 Jars 0020
 (C) First Final Flow 19 Safety Joint 0305
 (D) Initial Shut-In 1426 Circ Sub 0413
 (E) Second Initial Flow 19 Hourly Standby 0609
 (F) Second Final Flow 19 Mileage (64) 99.20 Comments _____
 (G) Final Shut-In 649 Sampler _____
 (H) Final Hydrostatic 2321 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1349.20

Approved By _____

Our Representative Ray Roberts

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Summary of Changes

Lease Name and Number: Thom Ranch 3-29

API/Permit #: 15-007-24051-00-00

Doc ID: 1158873

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	09/16/2013	09/18/2013
Save Link	../kcc/detail/operatorEditDetail.cfm?docID=1158419	../kcc/detail/operatorEditDetail.cfm?docID=1158873

Summary of Attachments

Lease Name and Number: Thom Ranch 3-29

API: 15-007-24051-00-00

Doc ID: 1158873

Correction Number: 1

Attachment Name



CONFIDENTIAL

WELL COMPLETION FORM

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top _____ Bottom _____
---	---	--

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

September 13, 2013

Kent Roberts
Roberts Resources, Inc.
2020 N TYLER RD, STE 106
WICHITA, KS 67212

Re: ACO1
API 15-007-24051-00-00
Thom Ranch 3-29
SW/4 Sec.29-30S-11W
Barber County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Kent Roberts



PAGE 1 of 1	CUST NO 1003562	INVOICE DATE 08/27/2013
INVOICE NUMBER 1718 - 91270884		

Pratt (620) 672-1201
 B ROBERTS RESOURCES INC
 I 2020 N TYLER RD STE 106
 L WICHITA
 L KS US 67212
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Thom Ranch 3-29
 O LOCATION
 B COUNTY Barber
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40633270	27463		Net - 30 days	09/26/2013

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 08/24/2013 to 08/24/2013				
0040633270				
171808760A Cement-New Well Casing/Pi 08/24/2013 Cement 8 5/8" Surface				
60/40 POZ	200.00	EA	8.04	1,607.99 T
Celloflake	50.00	EA	2.48	123.95 T
Calcium Chloride	516.00	EA	0.70	363.01 T
"Wooden Cmt Plug, 8 5/8" ""	1.00	EA	107.20	107.20
"Unit Mileage Chg (PU, cars one way)"	25.00	MI	2.85	71.19
Heavy Equipment Mileage	50.00	MI	4.69	234.50
"Proppant & Bulk Del. Chgs., per ton mil	215.00	EA	1.07	230.48
Depth Charge; 0-500'	1.00	EA	670.00	670.00
Blending & Mixing Service Charge	200.00	BAG	0.94	187.60
Plug Container Util. Chg.	1.00	EA	167.50	167.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	117.25	117.25

71730
Cement Surface Csq

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	3,880.67
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	149.79
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	4,030.46
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		

Customer	ROBERTS Resource inc	Lease No.		Date	8-24-13
Lease	THOM Ranch	Well #	3-29		
Field Order #	8760	Station	PRATT	Casing	8 5/8
				Depth	272.09
Type Job	CNW S.P.	Formation		County	BARBER
				State	KS
				Legal Description	29-30-11

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
8 5/8				CMF 200 60/40 POZ				
Depth 272.09	Depth	From	To	Pre Pad	Max		5 Min.	
				270 gal 370 C	1/4 # CF			
Volume 17.3	Volume	From	To	Pad	Min		10 Min.	
Max Press 300	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 252.09	Packer Depth	From	To	Flush 16	Gas Volume		Total Load	

Customer Representative	MIKE	Station Manager	KEVIN GUIDRY	Treater	MIKE MATTAL
Service Units	28443	27463	19826	19860	
Driver Names	MATTAL	YOUNG	LAWRENCE		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
11:20 AM					ON LOCATION / SAFETY MEETING
2:50 AM					CASING ON BOTTOM
					HOOK UP TO CASING / BREAK CIRC W RIG
3:12			5	3	PUMP 5 BBLs H ₂ O
3:15	300		45	5	MIX 200 SKS OF 60/40 POZ
3:28					RELEASE PLUG
3:30	250			5	START DISPLACEMENT
3:33	250			3	SLOW RATE
3:35	250		16		PLUG DOWN, SHUT IN WELL
					← 5 BBLs CMF TO SURFACE
					CIRCULATION THRU JOB
					JOB COMPLETE
					THANK YOU
					MIKE MATTAL



7/17/13

PAGE 1 of 1	CUST NO 1003562	INVOICE DATE 09/04/2013
INVOICE NUMBER 1718 - 91277155		

Pratt (620) 672-1201
 B ROBERTS RESOURCES INC
 I 2020 N TYLER RD STE 106
 L WICHITA
 L KS US 67212
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Thom Ranch 3-29
 O LOCATION
 B COUNTY Barber
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40636565	27463		Net - 30 days	10/04/2013

For Service Dates: 09/03/2013 to 09/03/2013

0040636565

171809006A Cement-New Well Casing/Pi 09/03/2013

Cement PTA

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
60/40 POZ	170.00	EA	8.04	1,366.68 T
Celloflake	43.00	EA	2.48	106.59 T
Cement Gel	294.00	EA	0.17	49.24 T
"Unit Mileage Chg (PU, cars one way)"	25.00	MI	2.85	71.18
Heavy Equipment Mileage	50.00	MI	4.69	234.48
"Proppant & Bulk Del. Chgs., per ton mil	184.00	EA	1.07	197.23
Depth Charge; 501'-1000'	1.00	EA	803.93	803.93
Blending & Mixing Service Charge	170.00	BAG	0.94	159.45
"Service Supervisor, first 8 hrs on loc.	1.00	EA	117.24	117.24

71730
71730

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	3,106.02
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	108.86
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	3,214.88
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		

[Handwritten signature]

Customer <i>Robert Business</i>	Lease No.	Date <i>9-3-13</i>	
Lease <i>Thom Ranch</i>	Well # <i>3-29</i>		
Field Order # <i>9006</i>	Station <i>P. 2H</i>	Casing	Depth
Type Job <i>CNW-PTA</i>	Formation	County <i>Baker</i>	State <i>KS</i>
		Legal Description <i>29-30-11</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft				RATE	PRESS	ISIP
			<i>1700</i>		<i>Acid 60/110/2</i>			5 Min.
Depth	Depth	From	To	Pre Pad	<i>1120 6.1</i>	Max		
Volume	Volume	From	To	Pad		Min		10 Min.
Max Press	Max Press	From	To	Frac		Avg		15 Min.
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush		Gas Volume		Total Load

Customer Representative <i>Mike</i>	Station Manager <i>Karen Bradley</i>	Treater <i>Steve Galardo</i>
-------------------------------------	--------------------------------------	------------------------------

Service Units	<i>27223</i>	<i>27463</i>	<i>19831</i>	<i>19862</i>				
Driver Names	<i>Delores</i>	<i>Robert</i>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>8:00</i>					<i>On location - Safety Meeting</i>
<i>9:30</i>			<i>1st plug @ 750'</i>		<i>with 50 sacks 60/110/2</i>
			<i>10</i>		<i>H2O</i>
			<i>13</i>		<i>Comment</i>
			<i>3</i>		<i>1120</i>
			<i>3</i>		<i>1120 Displacement Mod.</i>
<i>11:00</i>			<i>2nd plug @ 300'</i>		<i>with 50 sacks 60/110/2</i>
			<i>5</i>		<i>H2O</i>
			<i>15</i>		<i>Comment</i>
			<i>1</i>		<i>H2O</i>
<i>12:00</i>			<i>3rd plug @ 200'</i>		<i>with 50 sacks 60/110/2</i>
			<i>3</i>		<i>H2O</i>
			<i>6</i>		<i>Comment</i>
<i>1:15</i>			<i>4th</i>		<i>Plug Run 1 min w/ 50 sacks 60/110/2</i>



DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc.**

2020 N.Tyler Rd.Ste.106
Wichita KS 67212

ATTN: Kent Roberts

Thom Ranch #3-29

29-30s-11w Barber,KS

Start Date: 2013.08.28 @ 08:30:44

End Date: 2013.08.28 @ 15:55:59

Job Ticket #: 52298 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.04 @ 14:46:31

Roberts Resources Inc.

29-30s-11w Barber,KS

Thom Ranch #3-29

DST # 1

Upper Douglas

2013.08.28



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Roberts Resources Inc.
 2020 N.Tyler Rd.Ste.106
 Wichita KS 67212
 ATTN: Kent Roberts

29-30s-11w Barber,KS

Thom Ranch #3-29

Job Ticket: 52298 **DST#: 1**
 Test Start: 2013.08.28 @ 08:30:44

GENERAL INFORMATION:

Formation: **Upper Douglas**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:22:29
 Time Test Ended: 15:55:59
 Interval: **3726.00 ft (KB) To 3770.00 ft (KB) (TVD)**
 Total Depth: 3770.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gary Pevoteaux
 Unit No: 56
 Reference Elevations: 1822.00 ft (KB)
 1811.00 ft (CF)
 KB to GR/CF: 11.00 ft

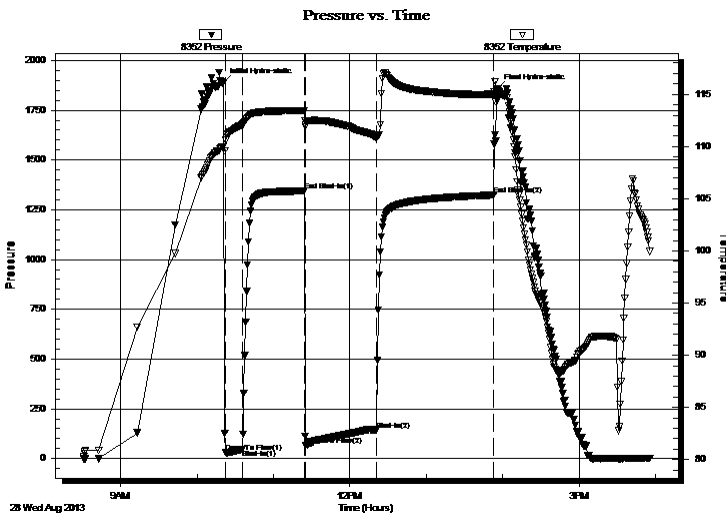
Serial #: 8352

Inside

Press @ Run Depth: 142.85 psig @ 3727.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.28 End Date: 2013.08.28 Last Calib.: 2013.08.28
 Start Time: 08:30:49 End Time: 15:55:58 Time On Btm: 2013.08.28 @ 10:20:44
 Time Off Btm: 2013.08.28 @ 13:56:14

TEST COMMENT: IF: Strong blow . B.O.B. in 5 secs.
 IS: GTS in 20 secs. No blow back.
 FF: Strong blow . (see gas flow report)
 FS: No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1890.40	110.01	Initial Hydro-static
2	31.94	110.62	Open To Flow (1)
15	48.16	112.06	Shut-In(1)
64	1343.66	113.43	End Shut-In(1)
65	67.05	111.91	Open To Flow (2)
120	142.85	110.85	Shut-In(2)
213	1323.97	115.02	End Shut-In(2)
216	1857.97	115.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
115.00	Drig.mud	1.61
75.00	WM 41%w 59%m	1.05

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	27.00	150.92
Last Gas Rate	0.38	42.00	205.87
Max. Gas Rate	0.38	42.00	205.87



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources Inc.
2020 N.Tyler Rd.Ste.106
Wichita KS 67212
ATTN: Kent Roberts

29-30s-11w Barber,KS
Thom Ranch #3-29
Job Ticket: 52298 **DST#: 1**
Test Start: 2013.08.28 @ 08:30:44

Tool Information

Drill Pipe:	Length: 3718.00 ft	Diameter: 3.80 inches	Volume: 52.15 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	79000.00 lb
			<u>Total Volume: 52.15 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	49000.00 lb
Depth to Top Packer:	3726.00 ft			Final	51000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	44.00 ft				
Tool Length:	64.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

C.O. Sub	1.00			3707.00	
Shut in tool	5.00			3712.00	
HMV	5.00			3717.00	
Packer	4.00			3721.00	20.00 Bottom Of Top Packer
Packer	5.00			3726.00	
Stubb	1.00			3727.00	
Recorder	0.00	8352	Inside	3727.00	
Recorder	0.00	8370	Outside	3727.00	
Perforations	6.00			3733.00	
Blank Spacing	32.00			3765.00	
Bullnose	5.00			3770.00	44.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc.
2020 N.Tyler Rd.Ste.106
Wichita KS 67212
ATTN: Kent Roberts

29-30s-11w Barber,KS
Thom Ranch #3-29
Job Ticket: 52298 **DST#: 1**
Test Start: 2013.08.28 @ 08:30:44

Mud and Cushion Information

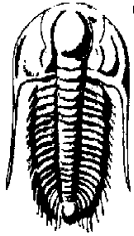
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: 121000 ppm	
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.57 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
115.00	Drig.mud	1.613
75.00	WM 41%w 59%m	1.052

Total Length: 190.00 ft Total Volume: 2.665 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments: Rw .065 @ 90deg



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Roberts Resources Inc.

29-30s-11w Barber,KS

2020 N.Tyler Rd.Ste.106
Wichita KS 67212

Thom Ranch #3-29

Job Ticket: 52298

DST#: 1

ATTN: Kent Roberts

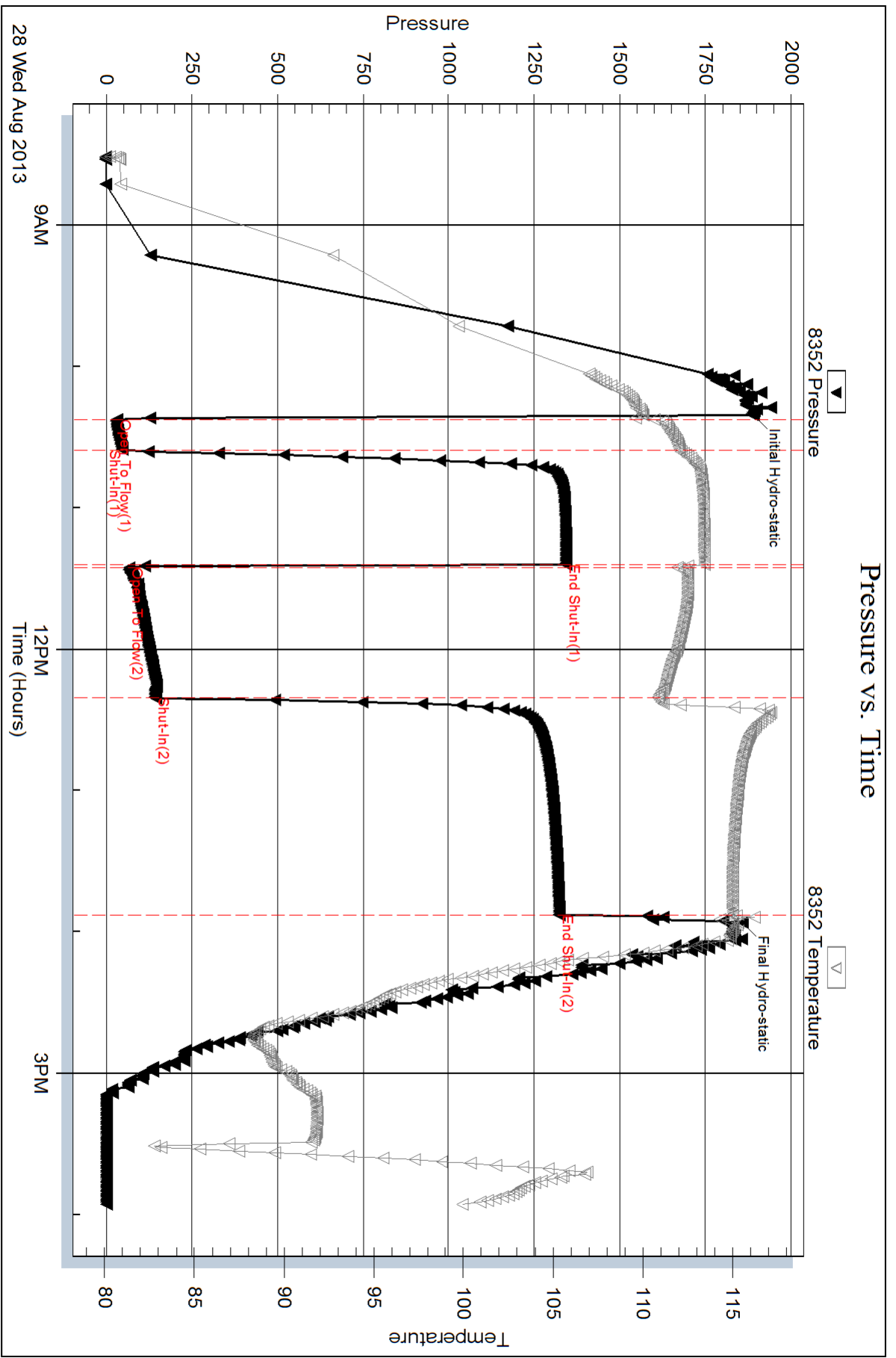
Test Start: 2013.08.28 @ 08:30:44

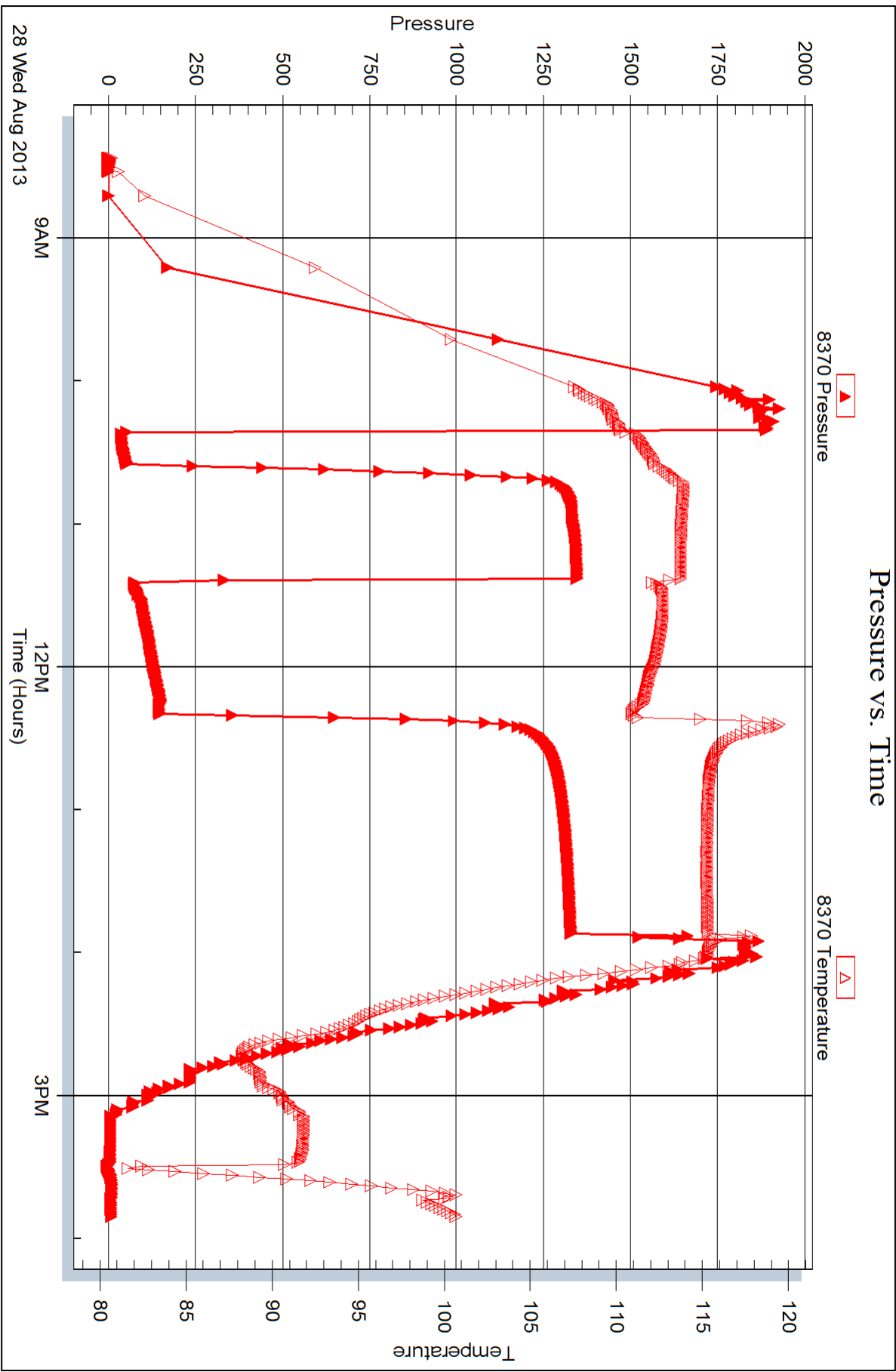
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.38	27.00	150.92
2	20	0.38	29.00	158.25
2	30	0.38	32.00	169.24
2	40	0.38	36.00	183.89
2	50	0.38	39.00	194.88
2	60	0.38	42.00	205.87







DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc.**

2020 N.Tyler Rd.Ste.106
Wichita KS 67212

ATTN: Kent Roberts

Thom Ranch #3-29

29-30s-11w Barber,KS

Start Date: 2013.08.29 @ 18:27:52

End Date: 2013.08.30 @ 01:36:22

Job Ticket #: 52299 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.04 @ 14:51:48



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Roberts Resources Inc.
 2020 N.Tyler Rd.Ste.106
 Wichita KS 67212
 ATTN: Kent Roberts

29-30s-11w Barber,KS
Thom Ranch #3-29
 Job Ticket: 52299 **DST#: 2**
 Test Start: 2013.08.29 @ 18:27:52

GENERAL INFORMATION:

Formation: **Swope**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:31:52
 Time Test Ended: 01:36:22
 Interval: **4249.00 ft (KB) To 4265.00 ft (KB) (TVD)**
 Total Depth: 4265.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 56
 Reference Elevations: 1822.00 ft (KB)
 1811.00 ft (CF)
 KB to GR/CF: 11.00 ft

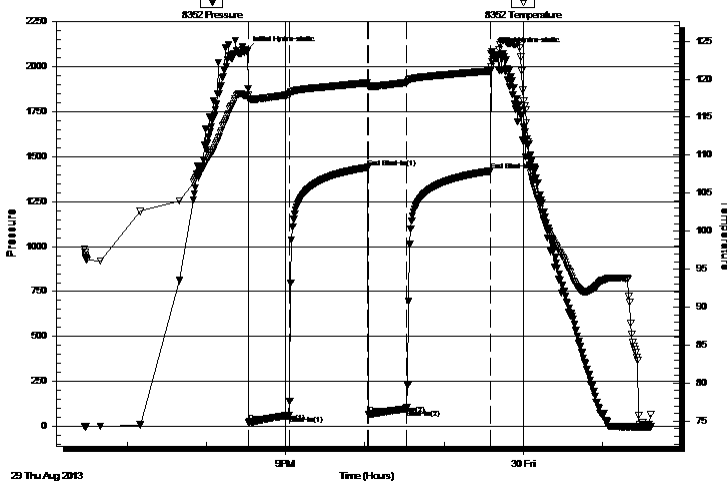
Serial #: 8352

Inside

Press @ Run Depth: 98.82 psig @ 4250.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.29 End Date: 2013.08.30 Last Calib.: 2013.08.30
 Start Time: 18:27:57 End Time: 01:36:21 Time On Btm: 2013.08.29 @ 20:30:37
 Time Off Btm: 2013.08.29 @ 23:36:07

TEST COMMENT: IF:Weak to fair blow . Increase to 5 1/2".
 IS:No blow .
 FF:Weak blow . 1/2 - 2".
 FS:No blow .

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2085.89	117.95	Initial Hydro-static
2	21.76	117.44	Open To Flow (1)
32	63.97	117.95	Shut-In(1)
92	1439.45	119.53	End Shut-In(1)
92	66.50	119.05	Open To Flow (2)
121	98.82	119.55	Shut-In(2)
184	1419.29	121.08	End Shut-In(2)
186	2082.08	122.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
132.00	MW 7% m 93% w (good odor)	1.85

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources Inc.
2020 N.Tyler Rd.Ste.106
Wichita KS 67212
ATTN: Kent Roberts

29-30s-11w Barber,KS
Thom Ranch #3-29
Job Ticket: 52299 **DST#: 2**
Test Start: 2013.08.29 @ 18:27:52

Tool Information

Drill Pipe:	Length: 4254.00 ft	Diameter: 3.80 inches	Volume: 59.67 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 59.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4249.00 ft			Final 57500.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

C.O. Sub	1.00			4230.00	
Shut in tool	5.00			4235.00	
HMV	5.00			4240.00	
Packer	4.00			4244.00	20.00 Bottom Of Top Packer
Packer	5.00			4249.00	
Stubb	1.00			4250.00	
Recorder	0.00	8352	Inside	4250.00	
Recorder	0.00	8370	Outside	4250.00	
Perforations	10.00			4260.00	
Bullnose	5.00			4265.00	16.00 Bottom Packers & Anchor
Total Tool Length:	36.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc.
2020 N.Tyler Rd.Ste.106
Wichita KS 67212
ATTN: Kent Roberts

29-30s-11w Barber,KS
Thom Ranch #3-29
Job Ticket: 52299 **DST#: 2**
Test Start: 2013.08.29 @ 18:27:52

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: 116000 ppm	
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.96 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

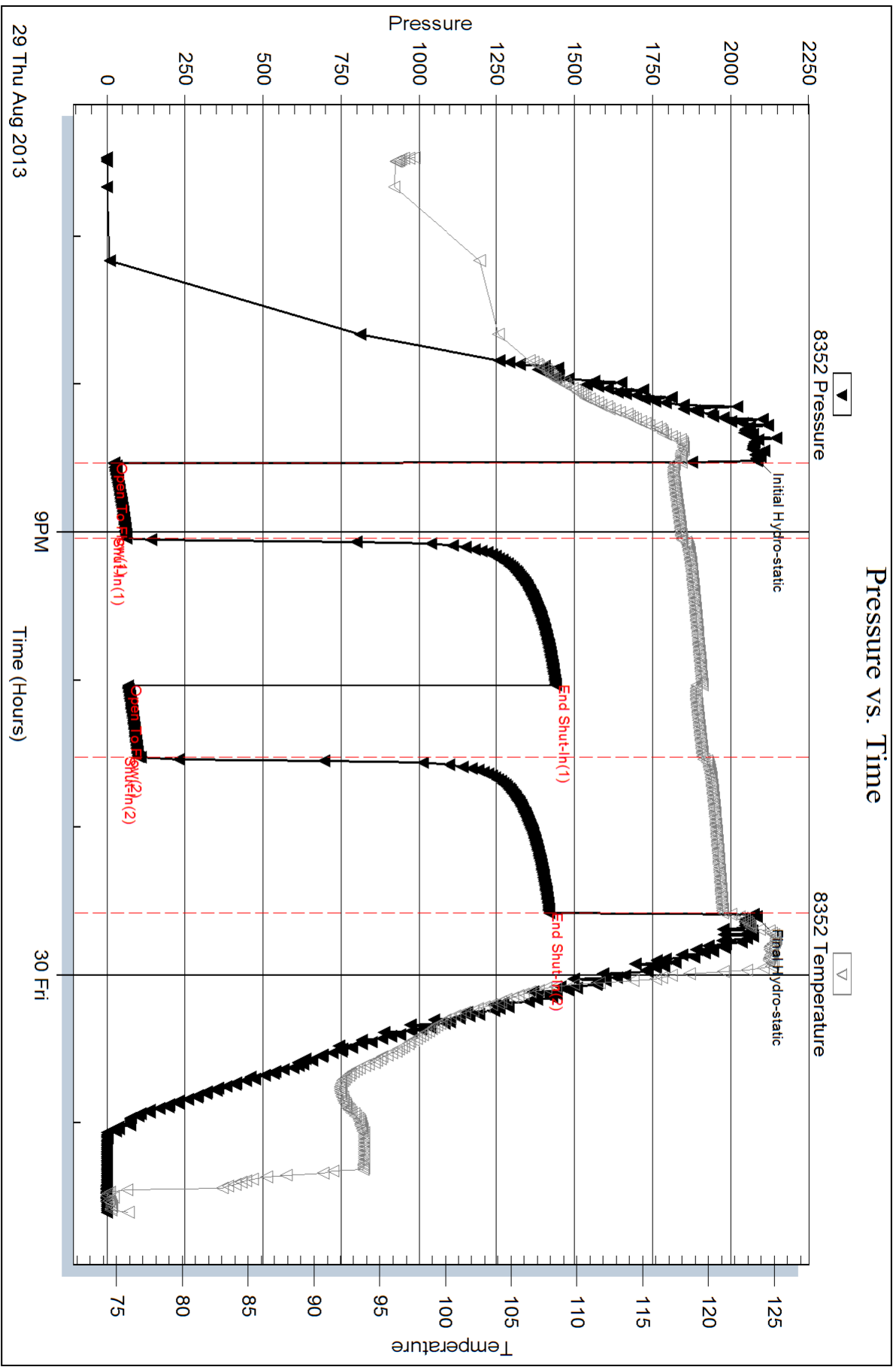
Length ft	Description	Volume bbl
132.00	MW 7% _m 93% _w (good odor)	1.852

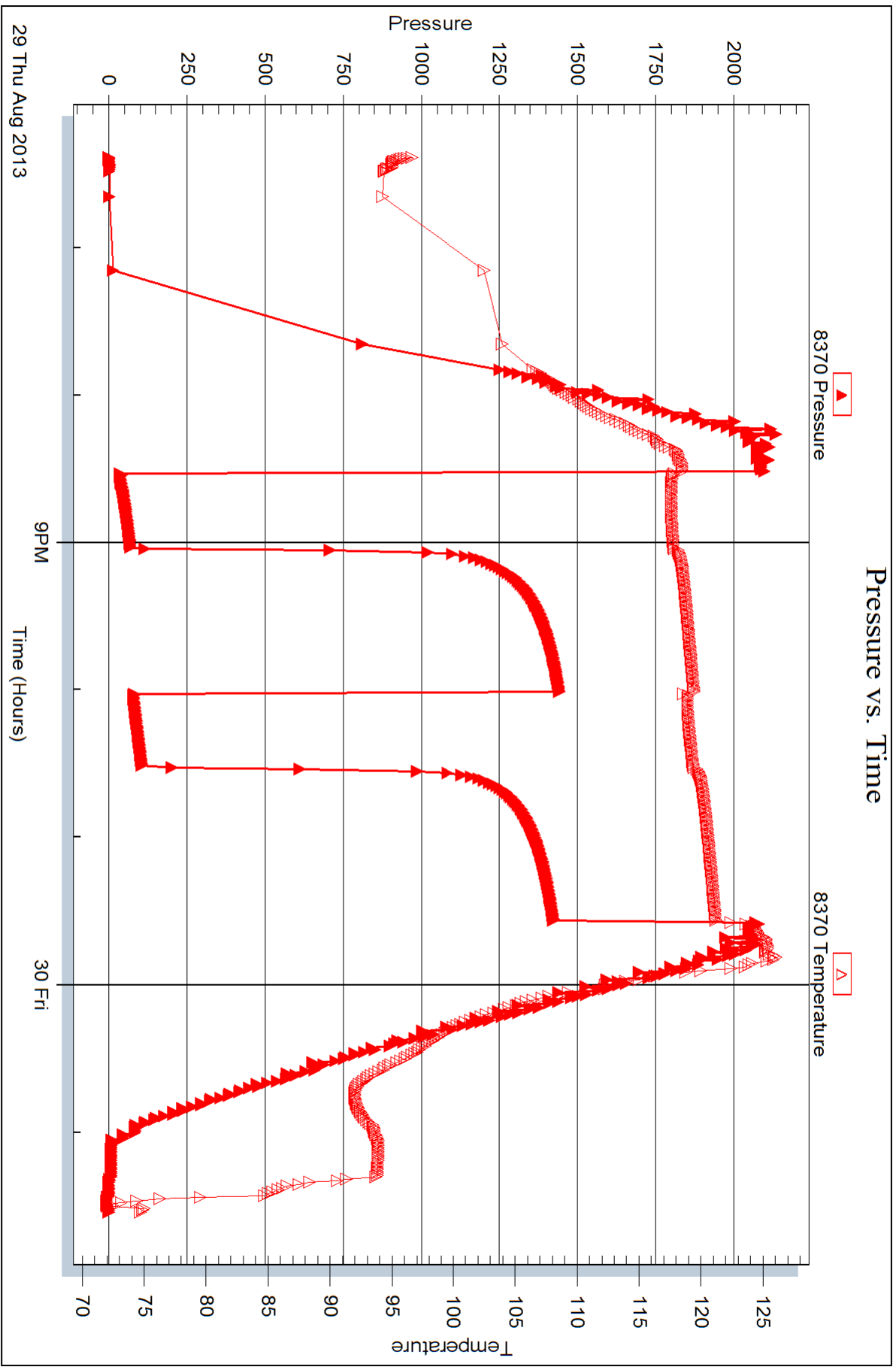
Total Length: 132.00 ft Total Volume: 1.852 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments: Rw .07ohms @ 75deg







DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc.**

2020 N.Tyler Rd.Ste.106
Wichita KS 67212

ATTN: Kent Roberts

Thom Ranch #3-29

29-30s-11w Barber,KS

Start Date: 2013.08.30 @ 18:38:14

End Date: 2013.08.31 @ 02:11:29

Job Ticket #: 52300 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.04 @ 14:51:09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Roberts Resources Inc.
 2020 N.Tyler Rd.Ste.106
 Wichita KS 67212
 ATTN: Kent Roberts

29-30s-11w Barber,KS
Thom Ranch #3-29
 Job Ticket: 52300 **DST#: 3**
 Test Start: 2013.08.30 @ 18:38:14

GENERAL INFORMATION:

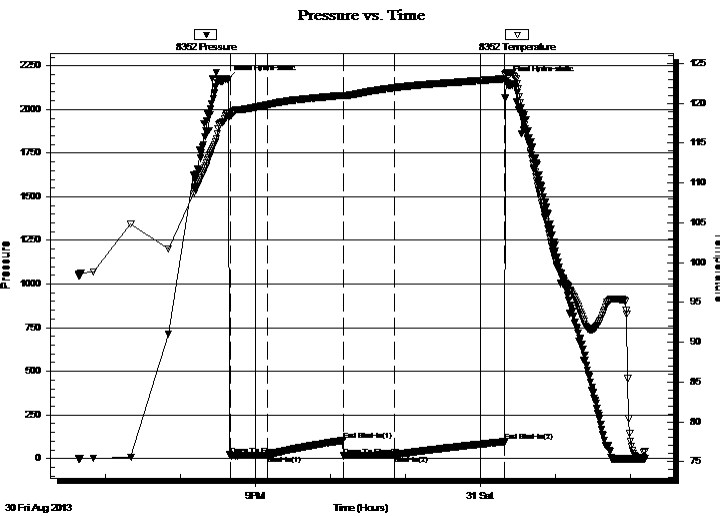
Formation: **Miss.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:39:29
 Time Test Ended: 02:11:29
 Interval: **4413.00 ft (KB) To 4445.00 ft (KB) (TVD)**
 Total Depth: 4445.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 56
 Reference Elevations: 1822.00 ft (KB)
 1811.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8352

Inside

Press @ Run Depth: 21.25 psig @ 4414.00 ft (KB)
 Start Date: 2013.08.30 End Date: 2013.08.31
 Start Time: 18:38:19 End Time: 02:11:28
 Capacity: 8000.00 psig
 Last Calib.: 2013.08.31
 Time On Btm: 2013.08.30 @ 20:37:14
 Time Off Btm: 2013.08.31 @ 00:20:29

TEST COMMENT: IF:Weak blow . Increase to 4".
 IS:No blow .
 FF:Weak blow . 2 - 4".
 FS:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2170.90	118.72	Initial Hydro-static
3	16.97	118.42	Open To Flow (1)
33	19.12	119.81	Shut-In(1)
93	103.67	121.00	End Shut-In(1)
94	14.99	120.96	Open To Flow (2)
134	21.25	121.95	Shut-In(2)
222	96.41	123.07	End Shut-In(2)
224	2164.22	123.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	SOCM 2%o 98%m	0.21
0.00	120 ft.of GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources Inc.
2020 N.Tyler Rd.Ste.106
Wichita KS 67212
ATTN: Kent Roberts

29-30s-11w Barber,KS
Thom Ranch #3-29
Job Ticket: 52300 **DST#: 3**
Test Start: 2013.08.30 @ 18:38:14

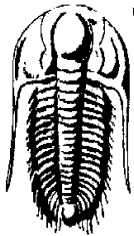
Tool Information

Drill Pipe:	Length: 4411.00 ft	Diameter: 3.80 inches	Volume: 61.87 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 81000.00 lb
			<u>Total Volume: 61.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4413.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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C.O. Sub	1.00			4394.00	
Shut in tool	5.00			4399.00	
HMV	5.00			4404.00	
Packer	4.00			4408.00	20.00 Bottom Of Top Packer
Packer	5.00			4413.00	
Stubb	1.00			4414.00	
Recorder	0.00	8352	Inside	4414.00	
Recorder	0.00	8370	Outside	4414.00	
Perforations	26.00			4440.00	
Bullnose	5.00			4445.00	32.00 Bottom Packers & Anchor
Total Tool Length:	52.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc.
2020 N.Tyler Rd.Ste.106
Wichita KS 67212
ATTN: Kent Roberts

29-30s-11w Barber,KS
Thom Ranch #3-29
Job Ticket: 52300 **DST#: 3**
Test Start: 2013.08.30 @ 18:38:14

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:	3000 ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

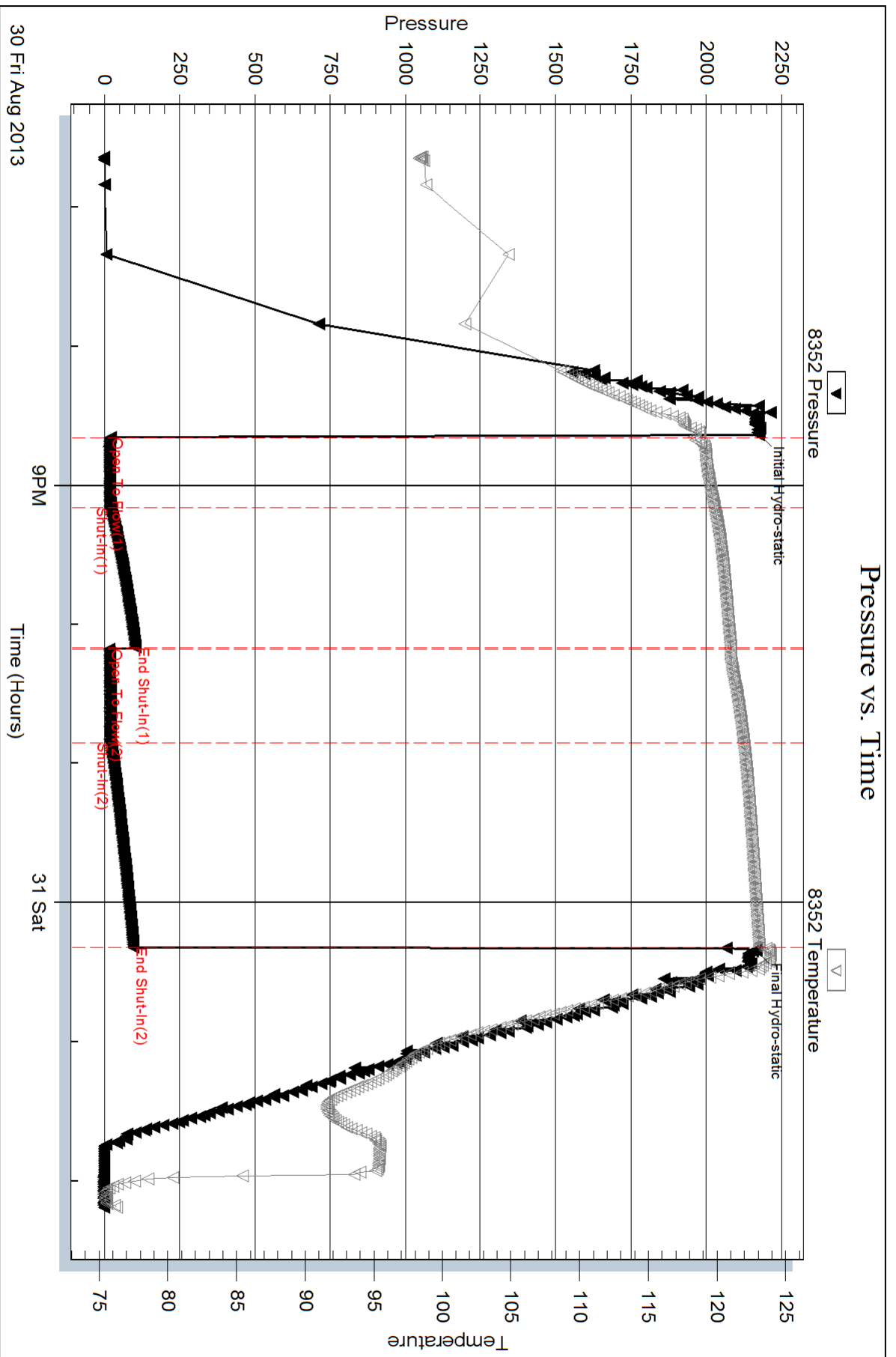
Length ft	Description	Volume bbl
15.00	SOCM 2%o 98%m	0.210
0.00	120 ft.of GIP	0.000

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments:

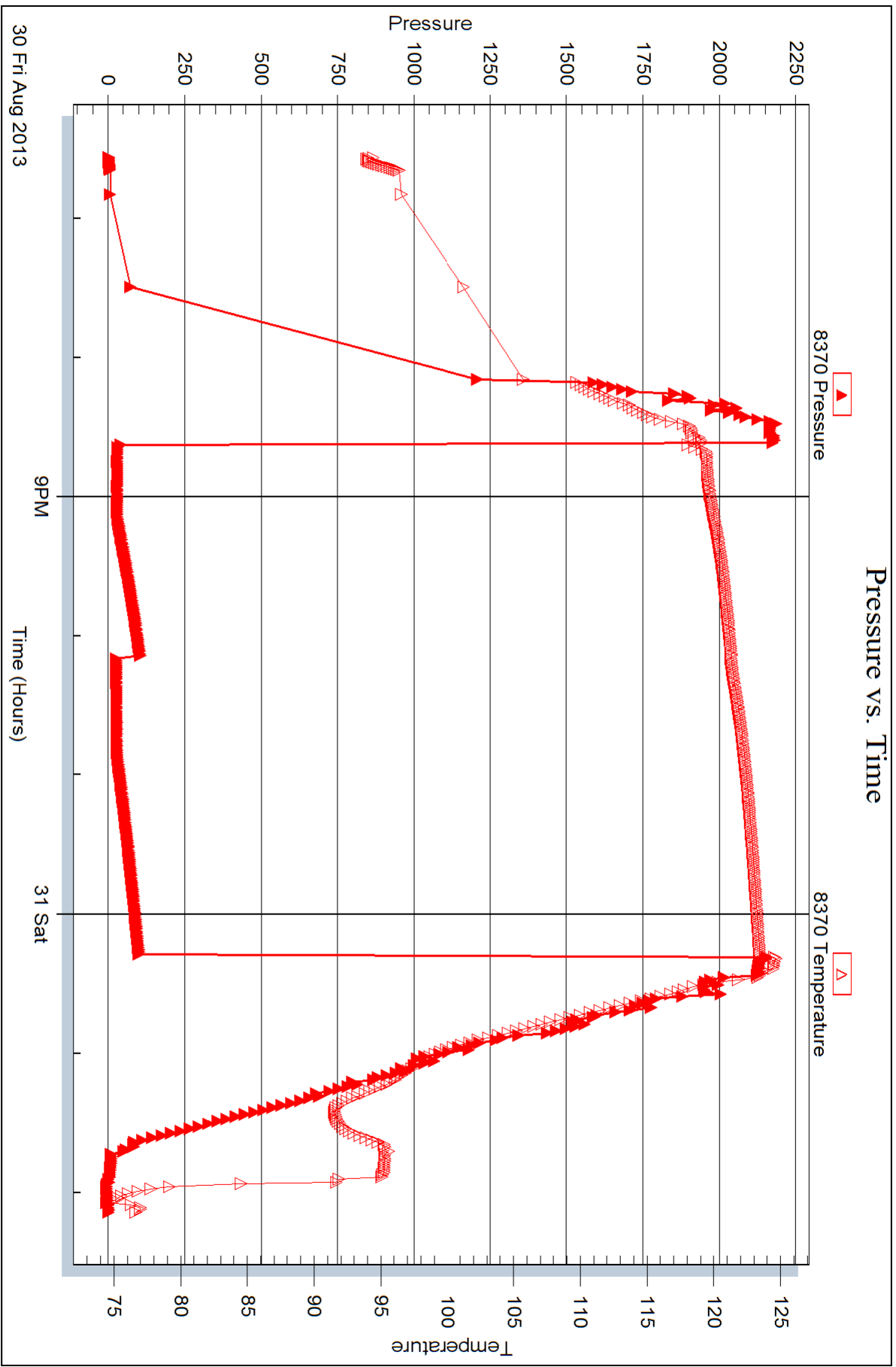


Serial #: 8370

Outside Roberts Resources Inc.

Thom Ranch #3-29

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc.**

2020 N.Tyler Rd.Ste.106
Wichita KS 67212

ATTN: Kent Roberts

Thom Ranch #3-29

29-30s-11w Barber,KS

Start Date: 2013.08.31 @ 11:33:12

End Date: 2013.08.31 @ 18:15:57

Job Ticket #: 52351 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.04 @ 14:50:39



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Roberts Resources Inc.
 2020 N.Tyler Rd.Ste.106
 Wichita KS 67212
 ATTN: Kent Roberts

29-30s-11w Barber,KS
Thom Ranch #3-29
 Job Ticket: 52351 **DST#: 4**
 Test Start: 2013.08.31 @ 11:33:12

GENERAL INFORMATION:

Formation: **Miss.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:33:57
 Time Test Ended: 18:15:57
 Interval: **4444.00 ft (KB) To 4490.00 ft (KB) (TVD)**
 Total Depth: 4490.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 56
 Reference Elevations: 1822.00 ft (KB)
 1811.00 ft (CF)
 KB to GR/CF: 11.00 ft

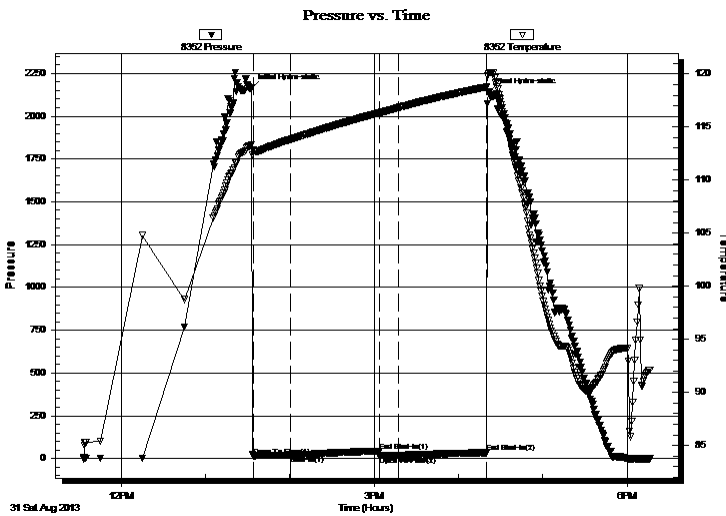
Serial #: 8352

Inside

Press @ Run Depth: 19.20 psig @ 4445.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.31 End Date: 2013.08.31 Last Calib.: 2013.08.31
 Start Time: 11:33:17 End Time: 18:15:56 Time On Btm: 2013.08.31 @ 13:32:42
 Time Off Btm: 2013.08.31 @ 16:21:27

TEST COMMENT: IF:Weak blow . 1 - 2 1/2".
 IS:No blow .
 FF:Weak blow . 1 - 2".
 FS:No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2162.61	113.32	Initial Hydro-static
2	15.22	112.83	Open To Flow (1)
28	17.45	113.82	Shut-In(1)
91	44.24	116.33	End Shut-In(1)
92	15.30	116.33	Open To Flow (2)
105	19.20	116.82	Shut-In(2)
168	35.04	118.77	End Shut-In(2)
169	2135.74	120.06	Final Hydro-static

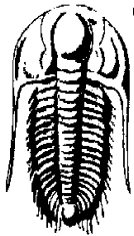
Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w oil specs.	0.14
0.00	110 ft.of GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Roberts Resources Inc.
 2020 N.Tyler Rd.Ste.106
 Wichita KS 67212
 ATTN: Kent Roberts

29-30s-11w Barber,KS

Thom Ranch #3-29

Job Ticket: 52351 **DST#: 4**

Test Start: 2013.08.31 @ 11:33:12

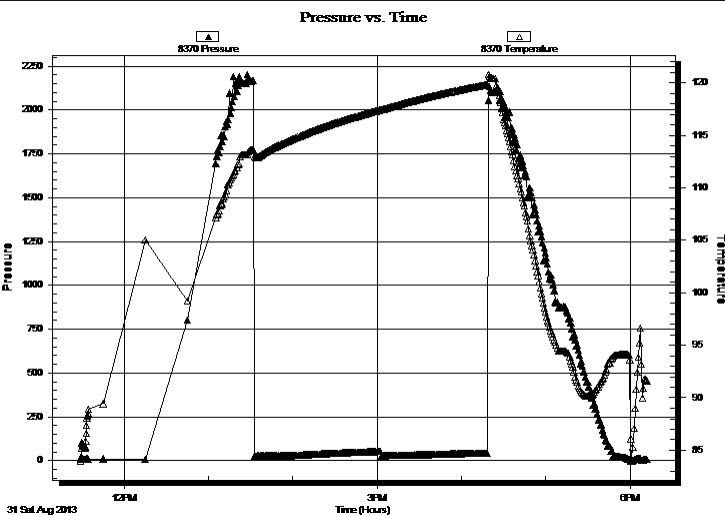
GENERAL INFORMATION:

Formation: Miss.		Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock:	ft (KB)	Tester: Gary Pevoteaux
Time Tool Opened: 13:33:57		Unit No: 56
Time Test Ended: 18:15:57		Reference Elevations: 1822.00 ft (KB)
Interval: 4444.00 ft (KB) To 4490.00 ft (KB) (TVD)		1811.00 ft (CF)
Total Depth: 4490.00 ft (KB) (TVD)		KB to GR/CF: 11.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair	

Serial #: 8370 Outside

Press @RunDepth: psig @ 4445.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2013.08.31 End Date: 2013.08.31	Last Calib.: 2013.08.31
Start Time: 11:28:56 End Time: 18:12:20	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF:Weak blow . 1 - 2 1/2".
 IS:No blow .
 FF:Weak blow . 1 - 2".
 FS:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w oil specs.	0.14
0.00	110 ft.of GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources Inc.
2020 N.Tyler Rd.Ste.106
Wichita KS 67212
ATTN: Kent Roberts

29-30s-11w Barber,KS
Thom Ranch #3-29
Job Ticket: 52351 **DST#: 4**
Test Start: 2013.08.31 @ 11:33:12

Tool Information

Drill Pipe:	Length: 4441.00 ft	Diameter: 3.80 inches	Volume: 62.30 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 62.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4444.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4425.00	
Shut in tool	5.00			4430.00	
HMV	5.00			4435.00	
Packer	4.00			4439.00	20.00 Bottom Of Top Packer
Packer	5.00			4444.00	
Stubb	1.00			4445.00	
Recorder	0.00	8352	Inside	4445.00	
Recorder	0.00	8370	Outside	4445.00	
Perforations	6.00			4451.00	
Blank Spacing	32.00			4483.00	
Perforations	2.00			4485.00	
Bullnose	5.00			4490.00	46.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc.
2020 N.Tyler Rd.Ste.106
Wichita KS 67212
ATTN: Kent Roberts

29-30s-11w Barber,KS
Thom Ranch #3-29
Job Ticket: 52351 **DST#: 4**
Test Start: 2013.08.31 @ 11:33:12

Mud and Cushion Information

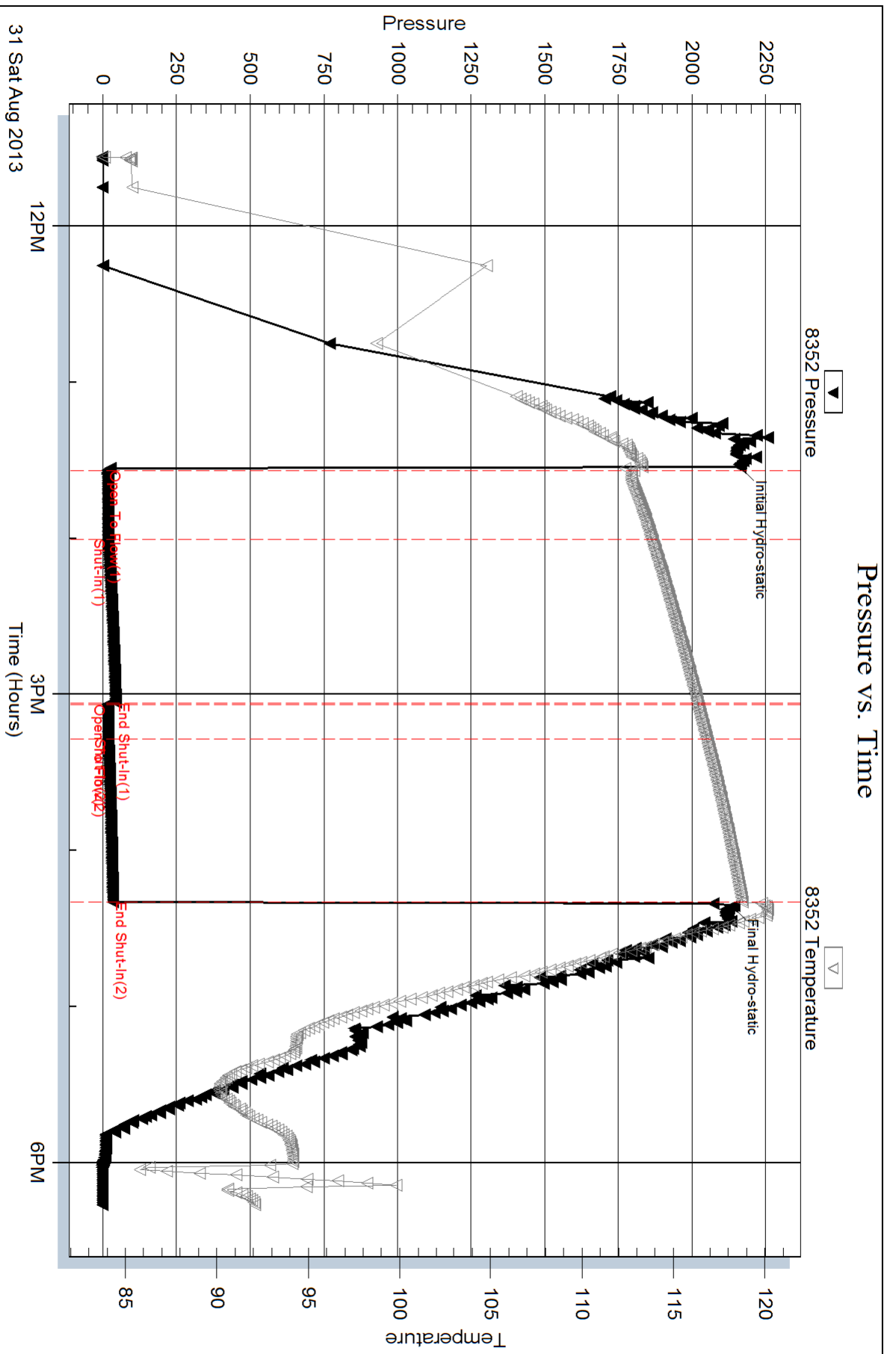
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	3000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 0.20 inches			

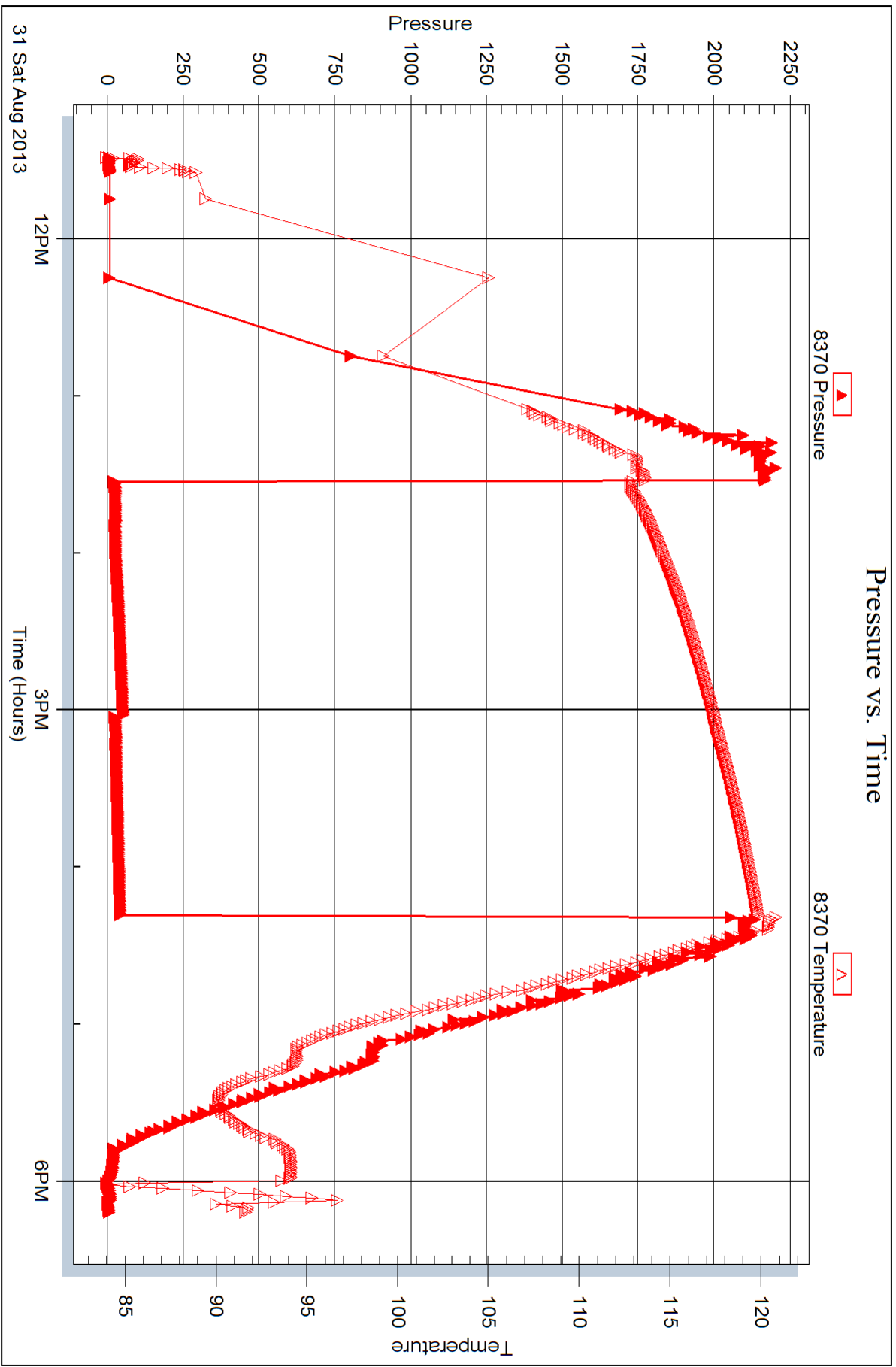
Recovery Information

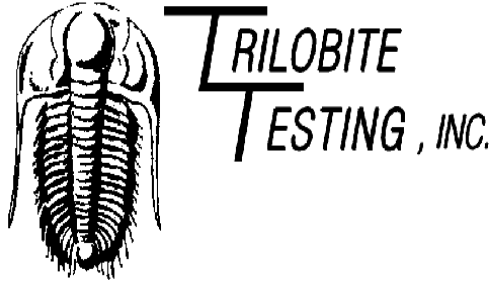
Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w oil specs.	0.140
0.00	110 ft.of GIP	0.000

Total Length: 10.00 ft Total Volume: 0.140 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none
 Laboratory Name: Laboratory Location:
 Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc.**

2020 N.Tyler Rd.Ste.106
Wichita KS 67212

ATTN: Kent Roberts

Thom Ranch #3-29

29-30s-11w Barber,KS

Start Date: 2013.09.02 @ 00:20:19

End Date: 2013.09.02 @ 06:09:19

Job Ticket #: 52352 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.04 @ 14:50:04

Roberts Resources Inc.

29-30s-11w Barber,KS

Thom Ranch #3-29

DST # 5

Simpson Sd.

2013.09.02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Roberts Resources Inc.
 2020 N.Tyler Rd.Ste.106
 Wichita KS 67212
 ATTN: Kent Roberts

29-30s-11w Barber,KS

Thom Ranch #3-29

Job Ticket: 52352 **DST#: 5**
 Test Start: 2013.09.02 @ 00:20:19

GENERAL INFORMATION:

Formation: **Simpson Sd.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:05:34
 Time Test Ended: 06:09:19
 Interval: **4766.00 ft (KB) To 4790.00 ft (KB) (TVD)**
 Total Depth: 4790.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 56
 Reference Elevations: 1822.00 ft (KB)
 1811.00 ft (CF)
 KB to GR/CF: 11.00 ft

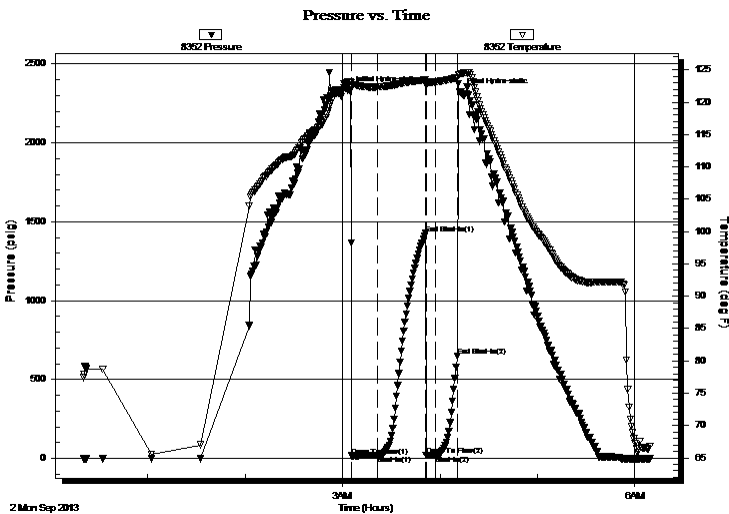
Serial #: 8352

Inside

Press @ Run Depth: 18.95 psig @ 4767.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.09.02 End Date: 2013.09.02 Last Calib.: 2013.09.02
 Start Time: 00:20:24 End Time: 06:09:18 Time On Btm: 2013.09.02 @ 03:04:04
 Time Off Btm: 2013.09.02 @ 04:12:19

TEST COMMENT: IF:Weak blow . 1/4" or less.
 IS:No blow .
 FF:No blow .
 FS:No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2332.48	123.22	Initial Hydro-static
2	17.38	122.57	Open To Flow (1)
18	19.14	122.36	Shut-In(1)
47	1425.78	123.45	End Shut-In(1)
48	18.82	122.64	Open To Flow (2)
53	18.95	123.12	Shut-In(2)
67	649.34	123.83	End Shut-In(2)
69	2321.16	124.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Drig.mud	0.04

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources Inc.
2020 N.Tyler Rd.Ste.106
Wichita KS 67212
ATTN: Kent Roberts

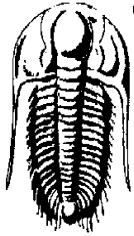
29-30s-11w Barber,KS
Thom Ranch #3-29
Job Ticket: 52352 **DST#: 5**
Test Start: 2013.09.02 @ 00:20:19

Tool Information

Drill Pipe:	Length: 4755.00 ft	Diameter: 3.80 inches	Volume: 66.70 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 66.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4766.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4747.00	
Shut in tool	5.00			4752.00	
HMV	5.00			4757.00	
Packer	4.00			4761.00	20.00 Bottom Of Top Packer
Packer	5.00			4766.00	
Stubb	1.00			4767.00	
Recorder	0.00	8352	Inside	4767.00	
Recorder	0.00	8370	Outside	4767.00	
Perforations	18.00			4785.00	
Bullnose	5.00			4790.00	24.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc.
2020 N.Tyler Rd.Ste.106
Wichita KS 67212
ATTN: Kent Roberts

29-30s-11w Barber,KS
Thom Ranch #3-29
Job Ticket: 52352 **DST#: 5**
Test Start: 2013.09.02 @ 00:20:19

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:	2000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

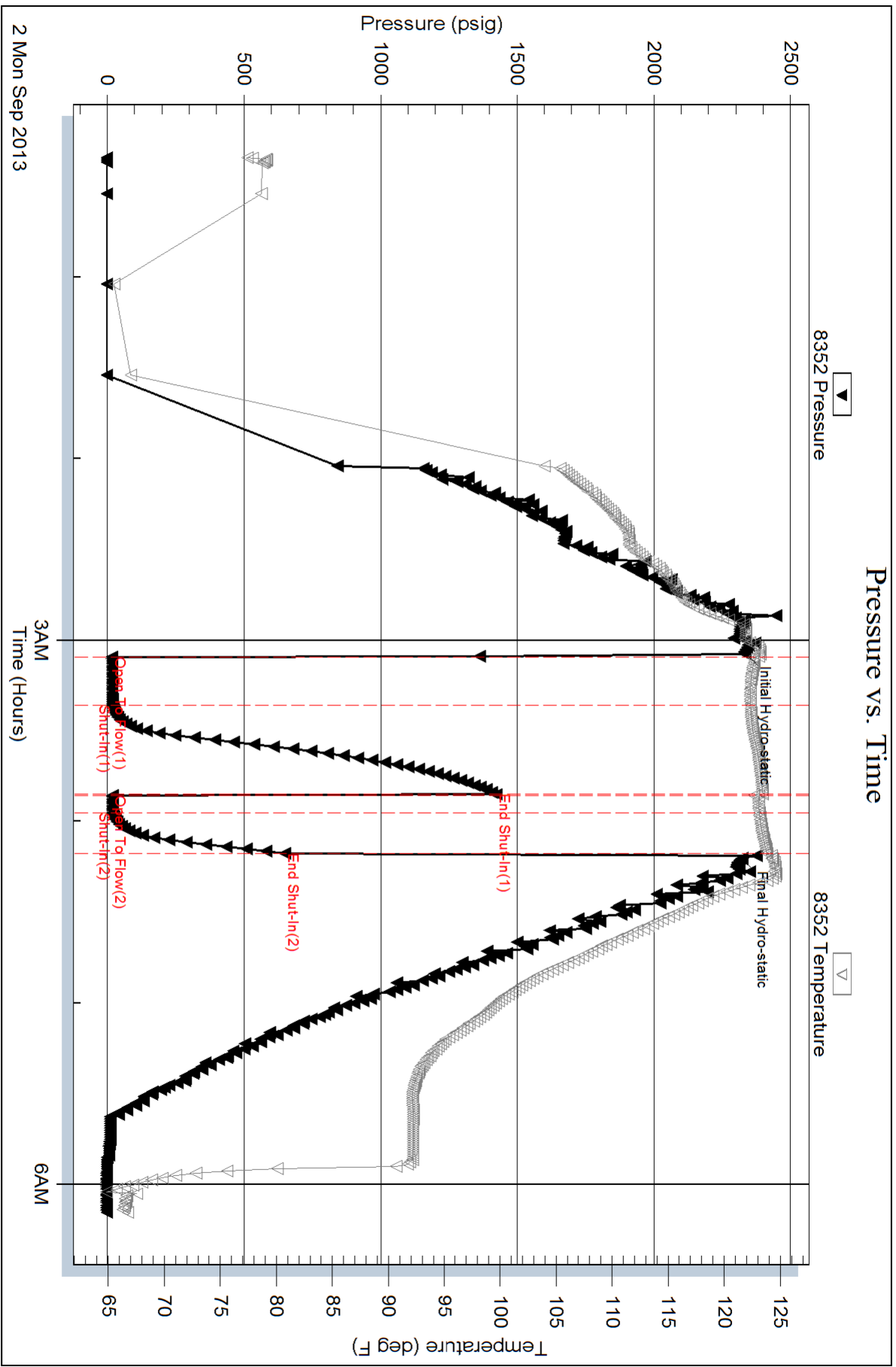
Length ft	Description	Volume bbl
3.00	Drig.mud	0.042

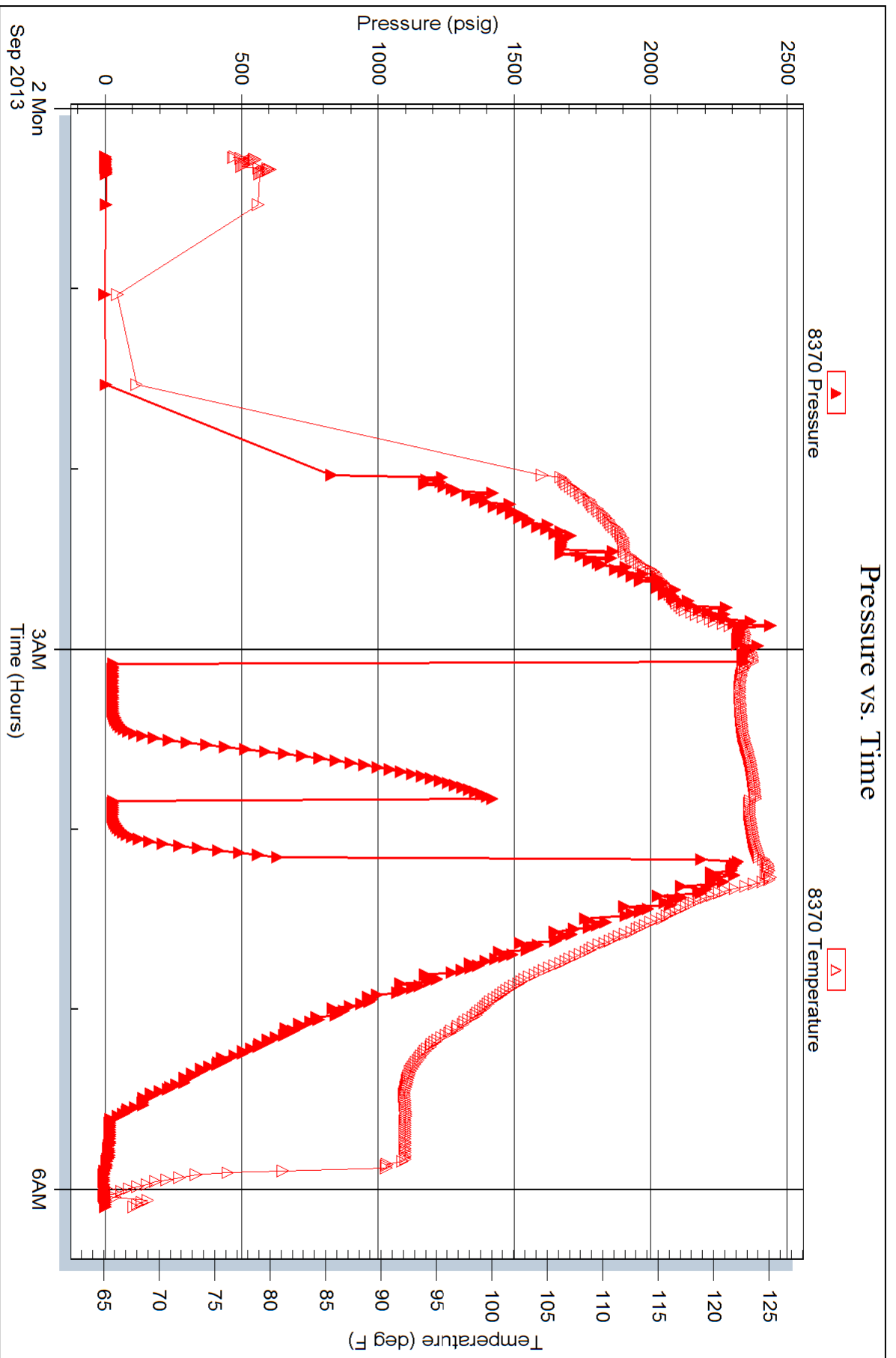
Total Length: 3.00 ft Total Volume: 0.042 bbl

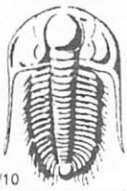
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52298

Well Name & No. THOM ^{RAUCH} # 3-29 Test No. 1 Date 8-28-13
 Company ROBERTS RESOURCES INC. Elevation 1822 KB 1811 GL
 Address 2020 N. TULER RD. STE. 106, WICHITA KS. 67212
 Co. Rep / Geo. KENT ROBERTS Rig DUKE DRILL #1
 Location: Sec. 29 Twp. 30^S Rge. 11^W Co. BARBER State KS.

Interval Tested 3726 - 3770' Zone Tested UPPER DOUGLAS
 Anchor Length 44' Drill Pipe Run 3718' Mud Wt. 9.5
 Top Packer Depth 3721' Drill Collars Run 0 Vis 47
 Bottom Packer Depth 3720' Wt. Pipe Run 0 WL 9.6cc
 Total Depth 3770' Chlorides 3000 ppm System LCM 0

Blow Description IF: Strong blow. 3.0.B. in 5 secs. ISI: GTS in 20
secs. No blow back.
FF: Strong blow. (see gas flow report) FSI: No blow.

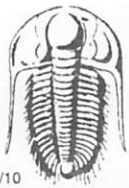
Rec	Feet of	%gas	%oil	%water	%mud
<u>115</u>	<u>Dry Mud</u>				
<u>75</u>	<u>WM</u>			<u>41</u>	<u>59</u>

Rec Total 190 BHT 115° Gravity N/A API RW -065 @ 90 ° F Chlorides 12,000 ppm
 (A) Initial Hydrostatic 1890 Test 1150 T-On Location 0:59
 (B) First Initial Flow 32 Jars _____ T-Started 0830
 (C) First Final Flow 48 Safety Joint _____ T-Open 1022
 (D) Initial Shut-In 1344 Circ Sub _____ T-Pulled 1350
 (E) Second Initial Flow 67 Hourly Standby _____ T-Out 1555
 (F) Second Final Flow 143 Mileage (64) 99.20 Comments _____
 (G) Final Shut-In 1324 Sampler _____
 (H) Final Hydrostatic 1858 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1249.20

Initial Open 13
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 90

Sub Total 0
 Total 1249.20
 MP/DST Disc't _____

Approved By _____ Our Representative Gary Roberts
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52299

Well Name & No. THOM RANCH # 3-29 Test No. 2 Date 8-29-13
 Company ROBERTS RESOURCES INC. Elevation 1822 KB 1811 GL
 Address 2020 N. TYLER RD STE 106, WICHITA KS. 67212
 Co. Rep / Geo. KENT ROBERTS Rig DUKE DRUG #1
 Location: Sec. 29 Twp. 30S Rge. 11W Co. BARBER State KS.

Interval Tested 4249 - 4265' Zone Tested SWOPE
 Anchor Length 16' Drill Pipe Run 4254' Mud Wt. 9.3
 Top Packer Depth 4244' Drill Collars Run 0 Vis 57
 Bottom Packer Depth 4249' Wt. Pipe Run 0 WL 9.0cc
 Total Depth 4265' Chlorides 3000 ppm System LCM 0
 Blow Description IF: Weak to fair blow. Increase to 5 1/2".
ISI: No blow.
FF: Weak blow. 1/2 - 2". FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>132</u>	<u>MW (good open)</u>			<u>93</u>	<u>7</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 132 BHT 121° Gravity N/A API RW 07 @ 75 °F Chlorides 16,000 ppm

(A) Initial Hydrostatic <u>2086</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1811</u>
(B) First Initial Flow <u>22</u>	<input type="checkbox"/> Jars	T-Started <u>1827</u>
(C) First Final Flow <u>64</u>	<input type="checkbox"/> Safety Joint	T-Open <u>2031</u>
(D) Initial Shut-In <u>1439</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>23 30 33</u>
(E) Second Initial Flow <u>67</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0136</u>
(F) Second Final Flow <u>99</u>	<input checked="" type="checkbox"/> Mileage <u>(64)</u> <u>99.20</u>	Comments
(G) Final Shut-In <u>1419</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2082</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>75</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby <u>1d 2.25h</u>	Total <u>1424.20</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1349.20</u>	

Approved By _____ Our Representative Cory Roberts
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52300

Well Name & No. THOM RANCH #3-29 Test No. 3 Date 8-30-13
 Company ROBERTS RESOURCES INC. Elevation 1822 KB 1811 GL
 Address 2020 N. TYLER RD. STE. 106, WICHITA KS. 67212
 Co. Rep / Geo. KENT ROBERTS Rig DUKE DRUG #1
 Location: Sec. 29 Twp. 30^S Rge. 11^W Co. BARBER State KS.

Interval Tested 4413-4445 Zone Tested Mess.
 Anchor Length 32' Drill Pipe Run 4411 Mud Wt. 9.3
 Top Packer Depth 4408' Drill Collars Run 0 Vis 48
 Bottom Packer Depth 4413' Wt. Pipe Run 0 WL 8.8 cc
 Total Depth 4445' Chlorides 3,000 ppm System LCM 1 1/2 #

Blow Description IF: Weak below. Increase to 4".
ISI: No below.
FF: Weak below. 2-4". FSI: No below.

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>Gas in pipe</u>				
<u>15</u>	<u>SOCM</u>		<u>2</u>		<u>98</u>

Rec Total 15 Fluid BHT 123° Gravity N/A API RW N.C.@ — ° F Chlorides 3,000 ppm

(A) Initial Hydrostatic <u>2171</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1810</u>
(B) First Initial Flow <u>17</u>	<input type="checkbox"/> Jars	T-Started <u>1838</u>
(C) First Final Flow <u>19</u>	<input type="checkbox"/> Safety Joint	T-Open <u>2039</u>
(D) Initial Shut-In <u>104</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0018</u>
(E) Second Initial Flow <u>15</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0211</u>
(F) Second Final Flow <u>21</u>	<input checked="" type="checkbox"/> Mileage <u>(64)</u> <u>99.20</u>	Comments
(G) Final Shut-In <u>96</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2164</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1349.20</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1349.20</u>	

Approved By _____ Our Representative Gary P. [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52351

Well Name & No. THOM RAUCH #3-29 Test No. 4 Date 8-31-13
 Company ROBERTS RESOURCEG Inc Elevation 1827 KB 1811 GL
 Address 2020 N Tyler Rd. Ste. 106, WICHITA Ks. 67212
 Co. Rep / Geo. KENT ROBERTS Rig DUKE DRUG. #1
 Location: Sec. 29 Twp. 30^S Rge. 11^W Co. BARBER State KS

Interval Tested 4444-4490' Zone Tested MISS.
 Anchor Length 46' Drill Pipe Run 4441' Mud Wt. 9.2
 Top Packer Depth 4439' Drill Collars Run 0 Vis 58
 Bottom Packer Depth 4444' Wt. Pipe Run 0 WL 8.8cc
 Total Depth 4490' Chlorides 3000 ppm System III LCM III
 Blow Description IF: Weak below 1-2 1/2" ISI: No below.

FF: Weak below 1-2" FSI: No below.

Rec	Feet of	%gas	%oil	%water	%mud
<u>110</u>	<u>Gas in pipe</u>				
<u>10</u>	<u>Mud w oil specs.</u>				

Rec Total 10 Fluid BHT 119° Gravity N/A API RW n.c. @ ~ ° F Chlorides 3,000 ppm
 (A) Initial Hydrostatic 2163 Test 1250 T-On Location 1113
 (B) First Initial Flow 15 Jars T-Started 1133
 (C) First Final Flow 17 Safety Joint T-Open 1333
 (D) Initial Shut-In 44 Circ Sub T-Pulled 1616
 (E) Second Initial Flow 15 Hourly Standby T-Out 1815
 (F) Second Final Flow 19 Mileage (64) 99.20 Comments
 (G) Final Shut-In 35 Sampler
 (H) Final Hydrostatic 2136 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Initial Open 30 Extra Recorder Sub Total 0
 Initial Shut-In 60 Day Standby Total 1349.20
 Final Flow 15 Accessibility MP/DST Disc
 Final Shut-In 60 Sub Total 1349.20

Approved By Kent Roberts Our Representative Gary D. [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52352

Well Name & No. THOM RANCH #3-29 Test No. S Date 9-2-13
 Company ROBERTS RESOURCES INC. Elevation 1822 KB 1811 GL
 Address 2020 N. TYLER RD. STE. 106, WICHITA KS. 67212
 Co. Rep / Geo. KENT ROBERTS Rig DUKE DRUG #1
 Location: Sec. 29 Twp. 30S Rge. 11W Co. BARBER State Ks.

Interval Tested 4766 ~ 4790' Zone Tested SIMPSON SD.
 Anchor Length 24' Drill Pipe Run 4755' Mud Wt. 9.1
 Top Packer Depth 4761' Drill Collars Run 0 Vis 50
 Bottom Packer Depth 4766' Wt. Pipe Run 0 WL 8.8cc
 Total Depth 4790' Chlorides 2000 ppm System LCM 2#
 Blow Description IF: Weak blow. 1/4" or less. ISI: No blow.

FF: No blow. EST: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>Dry Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 3 BHT 124° Gravity N/A API RW N.C. @ ~ ° F Chlorides 2000 ppm
 (A) Initial Hydrostatic 2332 Test 1250 T-On Location 0002
 (B) First Initial Flow 17 Jars 0020
 (C) First Final Flow 19 Safety Joint 0305
 (D) Initial Shut-In 1426 Circ Sub 0413
 (E) Second Initial Flow 19 Hourly Standby 0609
 (F) Second Final Flow 19 Mileage (64) 99.20
 (G) Final Shut-In 649 Sampler
 (H) Final Hydrostatic 2321 Straddle
 Shale Packer
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Initial Open 15
 Initial Shut-In 30
 Final Flow S
 Final Shut-In 15
 Sub Total 1349.20
 Total 1349.20
 MP/DST Disc't

Approved By _____

Our Representative Ray Roberts

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.