

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs 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
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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				

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
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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:	
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Form	ACO1 - Well Completion
Operator	Eagle Creek Corporation
Well Name	BRANTNER 1-5
Doc ID	1434838

All Electric Logs Run

DUAL INDUCTION
NEUTRON-DTY POROSITY
MICROLOG
SONIC



DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Corporation**

8100 E 22nd St North Bldg 1500
Wichita, Ks 67226

ATTN: Rocky Milford

Brantner #1-5

5-17s-34w Scott,KS

Start Date: 2018.11.04 @ 05:45:59

End Date: 2018.11.04 @ 11:14:59

Job Ticket #: 64266 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.11.09 @ 16:06:26



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Eagle Creek Corporation
8100 E 22nd St North Bldg 1500
Wichita, Ks 67226
ATTN: Rocky Milford

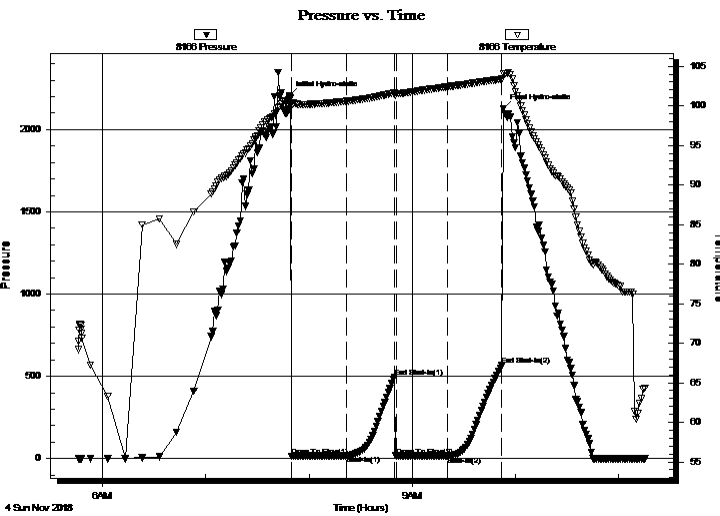
5-17s-34w Scott,KS
Brantner #1-5
Job Ticket: 64266 **DST#: 1**
Test Start: 2018.11.04 @ 05:45:59

GENERAL INFORMATION:

Formation: **LKC I**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:49:59
Time Test Ended: 11:14:59
Interval: **4280.00 ft (KB) To 4315.00 ft (KB) (TVD)**
Total Depth: 4315.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Turley
Unit No: 79
Reference Elevations: 3153.00 ft (KB)
3148.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 Outside
Press@RunDepth: 16.61 psig @ 4281.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.11.04 End Date: 2018.11.04 Last Calib.: 2018.11.04
Start Time: 05:46:04 End Time: 11:14:58 Time On Btm: 2018.11.04 @ 07:48:29
Time Off Btm: 2018.11.04 @ 09:52:59

TEST COMMENT: IF: 1/4" blow died in 14 min.
IS: No return.
FF: No blow.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2204.40	100.86	Initial Hydro-static
2	13.92	100.04	Open To Flow (1)
34	17.93	100.59	Shut-In(1)
61	493.28	101.61	End Shut-In(1)
62	15.99	101.51	Open To Flow (2)
92	16.61	102.41	Shut-In(2)
124	565.11	103.37	End Shut-In(2)
125	2128.78	104.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100% _m	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Eagle Creek Corporation
8100 E 22nd St North Bldg 1500
Wichita, Ks 67226
ATTN: Rocky Milford

5-17s-34w Scott,KS
Brantner #1-5
Job Ticket: 64266 **DST#: 1**
Test Start: 2018.11.04 @ 05:45:59

Tool Information

Drill Pipe:	Length: 4158.00 ft	Diameter: 3.80 inches	Volume: 58.33 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume: 58.92 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4280.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	62.00 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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Stubb	1.00			4254.00	
Shut In Tool	5.00			4259.00	
Hydraulic tool	5.00			4264.00	
Jars	5.00			4269.00	
Safety Joint	2.00			4271.00	
Packer	5.00			4276.00	27.00 Bottom Of Top Packer
Packer	4.00			4280.00	
Stubb	1.00			4281.00	
Recorder	0.00	6651	Inside	4281.00	
Recorder	0.00	8166	Outside	4281.00	
Perforations	29.00			4310.00	
Bullnose	5.00			4315.00	35.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Eagle Creek Corporation
8100 E 22nd St North Bldg 1500
Wichita, Ks 67226
ATTN: Rocky Milford

5-17s-34w Scott,KS
Brantner #1-5
Job Ticket: 64266 **DST#: 1**
Test Start: 2018.11.04 @ 05:45:59

Mud and Cushion Information

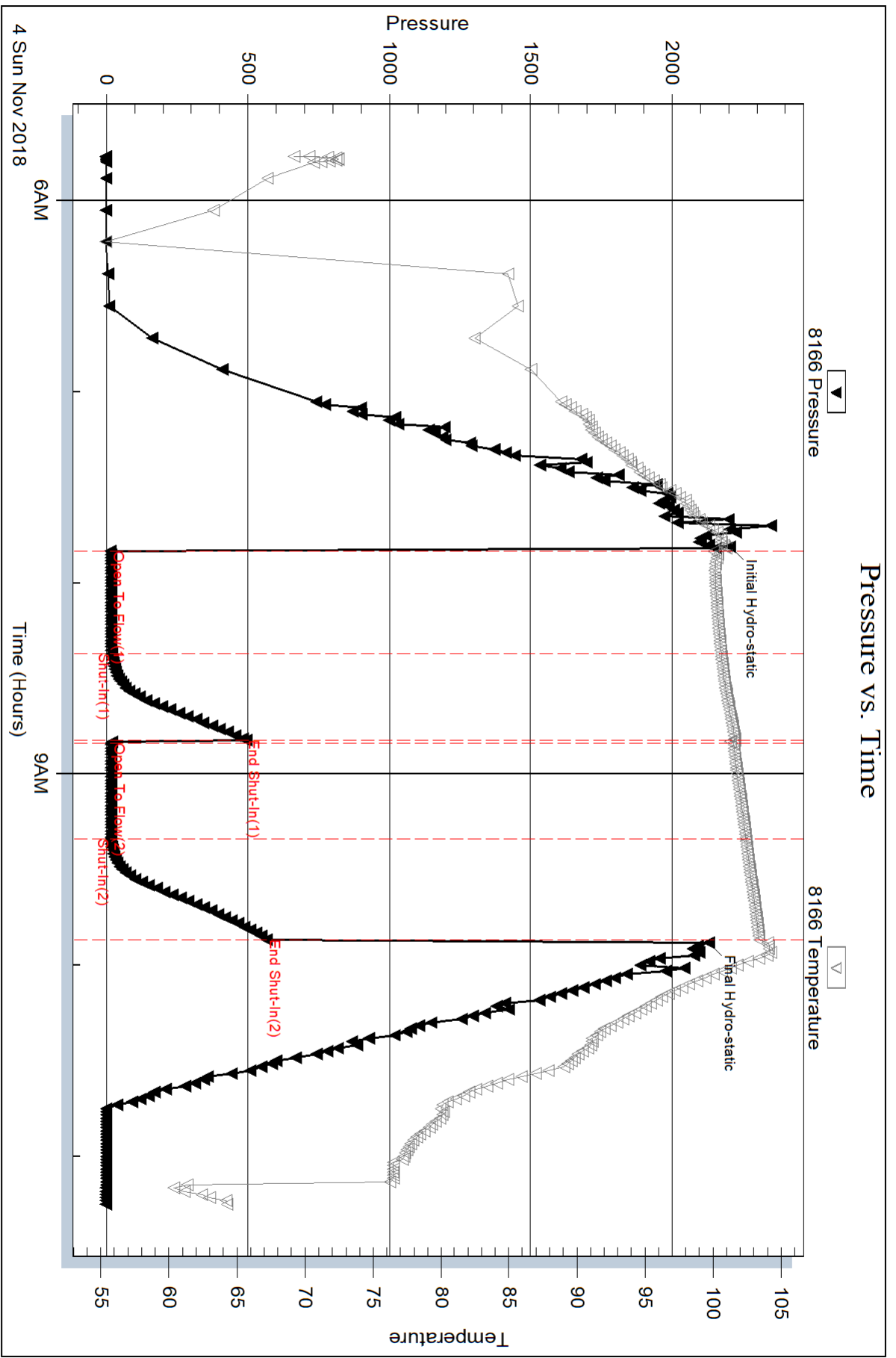
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 67.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3300.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud 100%m	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



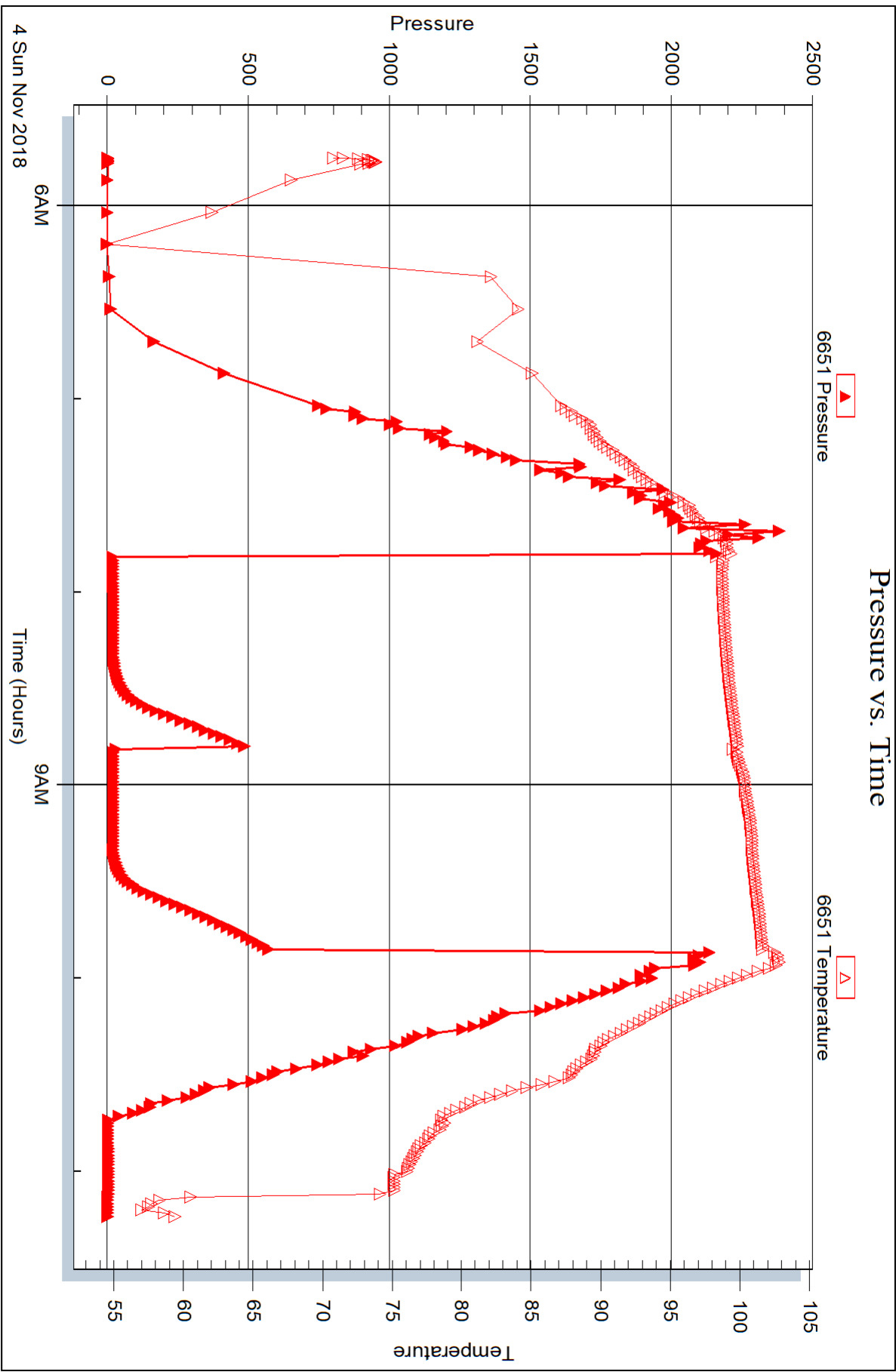
Serial #: 6651

Inside

Eagle Creek Corporation

Brantner #1-5

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Corporation**

8100 E 22nd St North Bldg 1500
Wichita, Ks 67226

ATTN: Rocky Milford

Brantner #1-5

5-17s-34w Scott,KS

Start Date: 2018.11.04 @ 23:37:06

End Date: 2018.11.05 @ 05:49:36

Job Ticket #: 64267 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.11.09 @ 15:57:56



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Eagle Creek Corporation
 8100 E 22nd St North Bldg 1500
 Wichita, Ks 67226
 ATTN: Rocky Milford

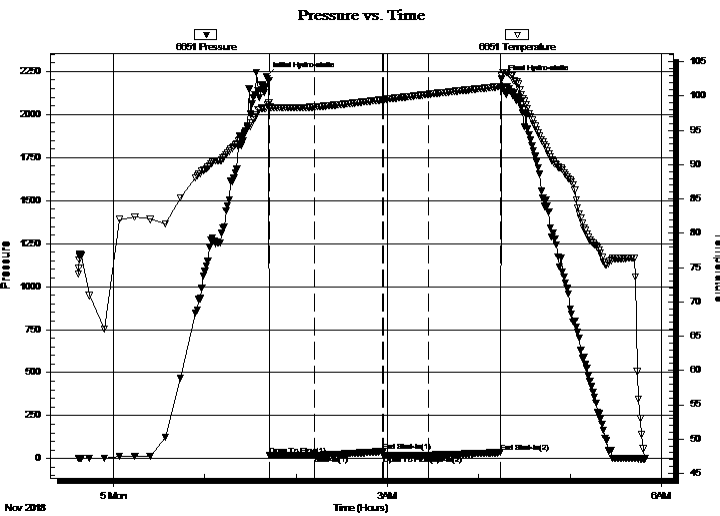
5-17s-34w Scott,KS
Brantner #1-5
 Job Ticket: 64267 **DST#: 2**
 Test Start: 2018.11.04 @ 23:37:06

GENERAL INFORMATION:

Formation: **LKC L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:42:36
 Time Test Ended: 05:49:36
 Interval: **4388.00 ft (KB) To 4410.00 ft (KB) (TVD)**
 Total Depth: 4410.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3153.00 ft (KB)
 3148.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6651 **Inside**
 Press@RunDepth: 21.11 psig @ 4389.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.11.04 End Date: 2018.11.05 Last Calib.: 2018.11.05
 Start Time: 23:37:11 End Time: 05:49:35 Time On Btm: 2018.11.05 @ 01:40:36
 Time Off Btm: 2018.11.05 @ 04:15:06

TEST COMMENT: IF: Surface blow stayed at surface.
 IS: No return.
 FF: Surface blow died in 20 min.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2222.03	98.27	Initial Hydro-static
2	18.46	98.39	Open To Flow (1)
32	20.64	98.42	Shut-In(1)
76	42.13	99.48	End Shut-In(1)
77	20.56	99.49	Open To Flow (2)
107	21.11	100.26	Shut-In(2)
154	35.23	101.39	End Shut-In(2)
155	2205.41	102.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Eagle Creek Corporation
8100 E 22nd St North Bldg 1500
Wichita, Ks 67226
ATTN: Rocky Milford

5-17s-34w Scott,KS
Brantner #1-5
Job Ticket: 64267 **DST#: 2**
Test Start: 2018.11.04 @ 23:37:06

Tool Information

Drill Pipe:	Length: 4252.00 ft	Diameter: 3.80 inches	Volume: 59.64 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4388.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	49.00 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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Stubb	1.00			4362.00	
Shut In Tool	5.00			4367.00	
Hydraulic tool	5.00			4372.00	
Jars	5.00			4377.00	
Safety Joint	2.00			4379.00	
Packer	5.00			4384.00	27.00 Bottom Of Top Packer
Packer	4.00			4388.00	
Stubb	1.00			4389.00	
Recorder	0.00	6651	Inside	4389.00	
Recorder	0.00	8166	Outside	4389.00	
Perforations	16.00			4405.00	
Bullnose	5.00			4410.00	22.00 Bottom Packers & Anchor

Total Tool Length: 49.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Eagle Creek Corporation
8100 E 22nd St North Bldg 1500
Wichita, Ks 67226
ATTN: Rocky Milford

5-17s-34w Scott,KS
Brantner #1-5
Job Ticket: 64267 **DST#: 2**
Test Start: 2018.11.04 @ 23:37:06

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

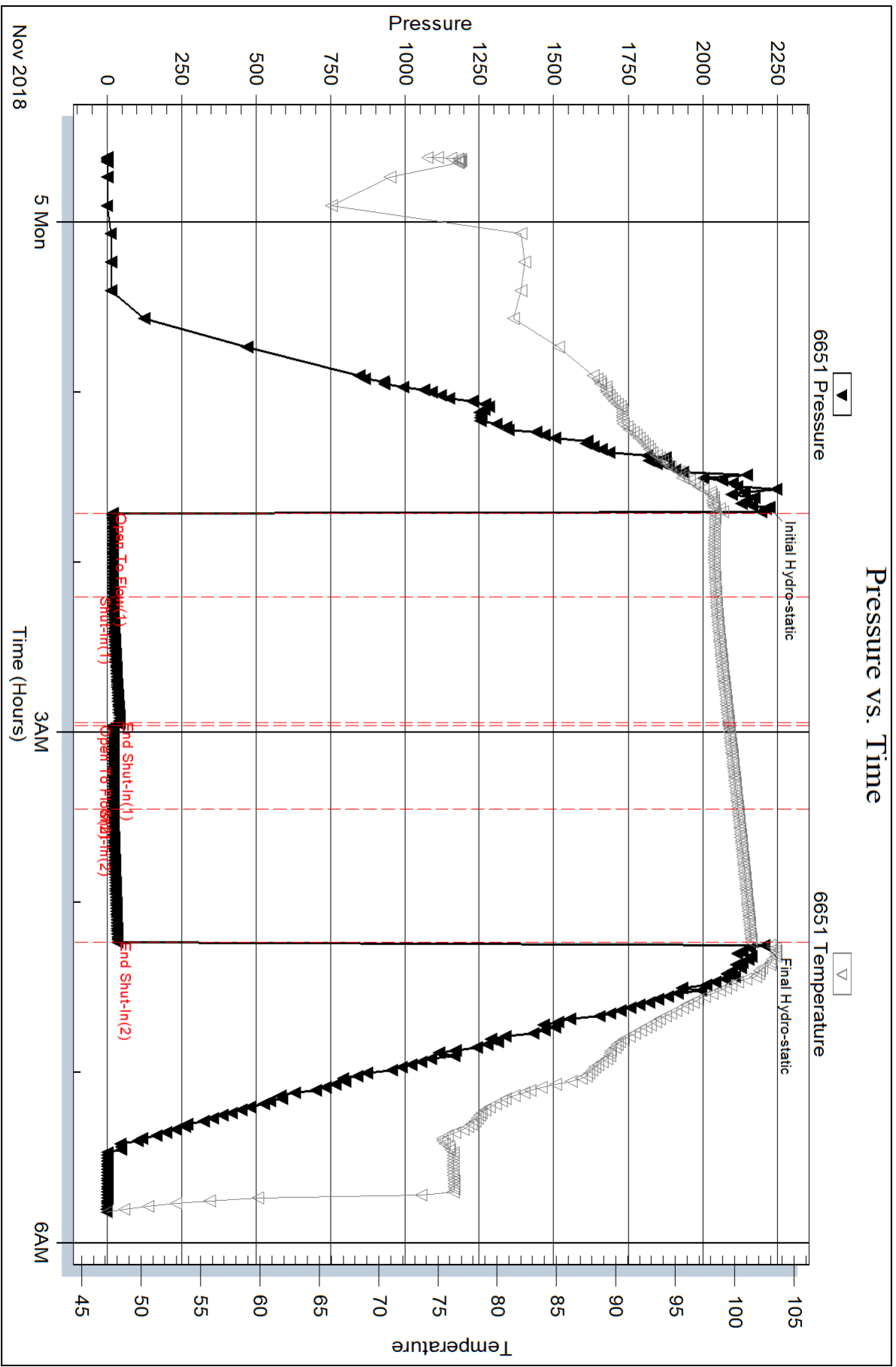
Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

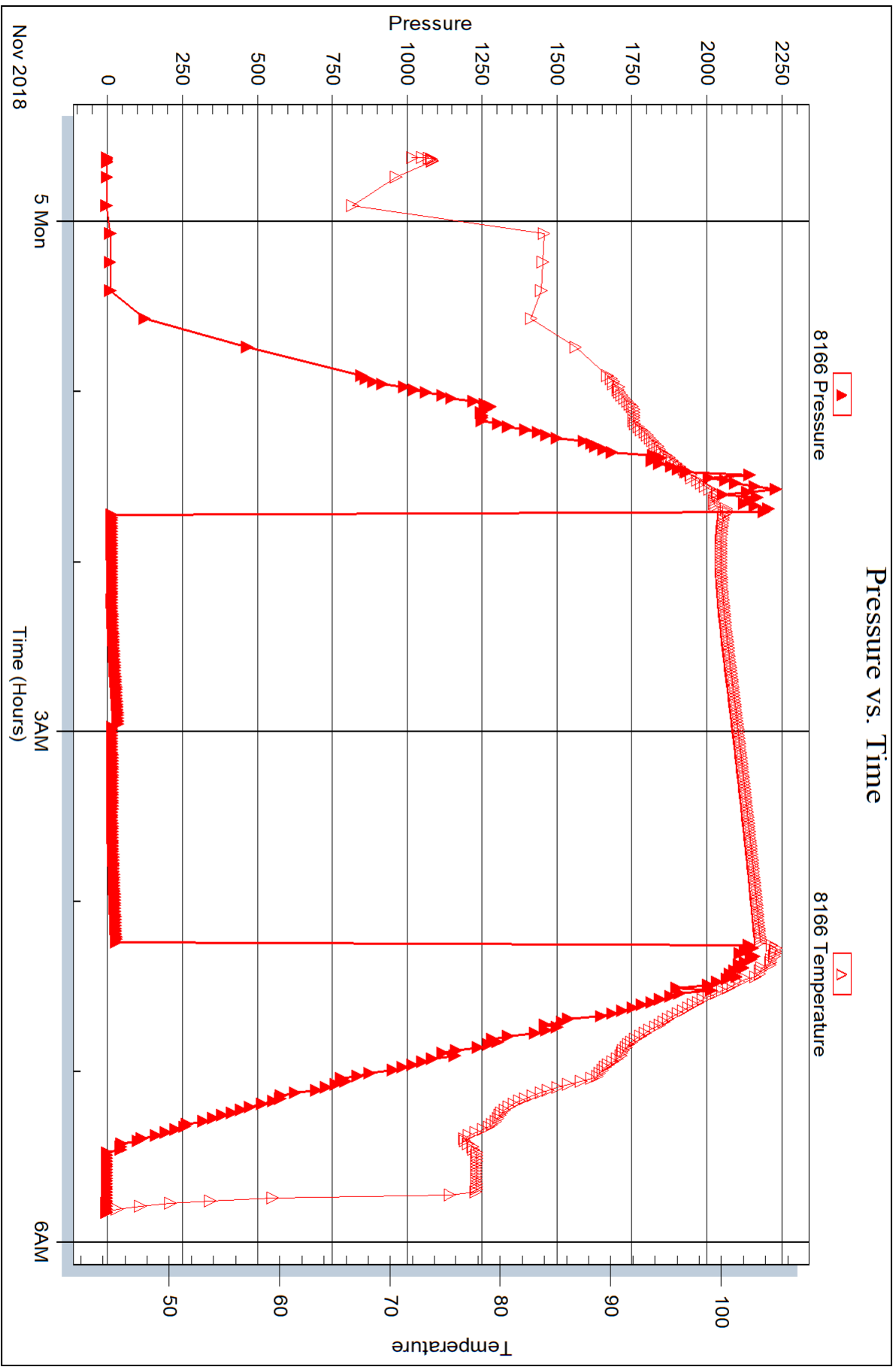
Total Length: 5.00 ft Total Volume: 0.025 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Corporation**

8100 E 22nd St North Bldg 1500
Wichita, Ks 67226

ATTN: Rocky Milford

Brantner #1-5

5-17s-34w Scott,KS

Start Date: 2018.11.05 @ 20:29:32

End Date: 2018.11.06 @ 03:46:32

Job Ticket #: 64268 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.11.09 @ 15:57:23



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Eagle Creek Corporation
 8100 E 22nd St North Bldg 1500
 Wichita, Ks 67226
 ATTN: Rocky Milford

5-17s-34w Scott,KS
Brantner #1-5
 Job Ticket: 64268 **DST#: 3**
 Test Start: 2018.11.05 @ 20:29:32

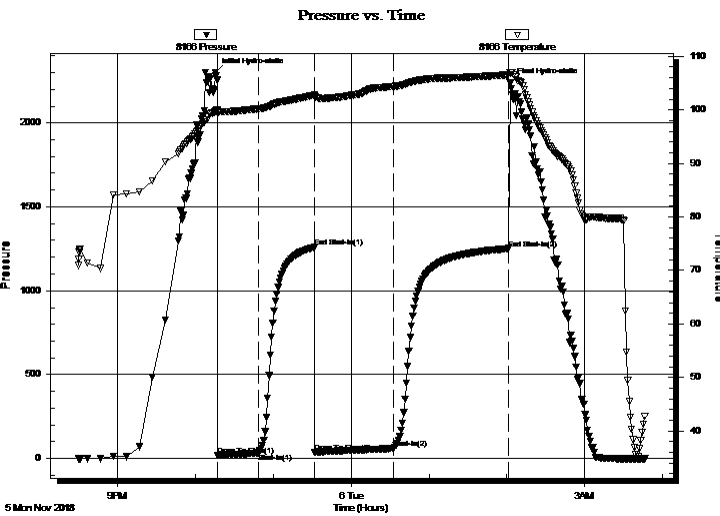
GENERAL INFORMATION:

Formation: **Marmaton A-C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:17:02
 Time Test Ended: 03:46:32
 Interval: **4458.00 ft (KB) To 4530.00 ft (KB) (TVD)**
 Total Depth: 4530.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3153.00 ft (KB)
 3148.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8166 Outside

Press@RunDepth: 60.57 psig @ 4459.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.11.05 End Date: 2018.11.06 Last Calib.: 2018.11.06
 Start Time: 20:29:37 End Time: 03:46:31 Time On Btm: 2018.11.05 @ 22:15:02
 Time Off Btm: 2018.11.06 @ 02:02:32

TEST COMMENT: IF: 1/4" blow built to 2 1/4".
 IS: No return.
 FF: Surface blow built to 3"
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2300.81	99.65	Initial Hydro-static
2	19.11	99.38	Open To Flow (1)
33	31.71	100.15	Shut-In(1)
77	1258.29	102.73	End Shut-In(1)
77	36.93	102.39	Open To Flow (2)
138	60.57	104.38	Shut-In(2)
227	1251.11	106.54	End Shut-In(2)
228	2238.16	106.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	ocm 20%o 80%m	0.34
40.00	oil 100%o	0.20

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Eagle Creek Corporation
8100 E 22nd St North Bldg 1500
Wichita, Ks 67226
ATTN: Rocky Milford

5-17s-34w Scott,KS
Brantner #1-5
Job Ticket: 64268 **DST#: 3**
Test Start: 2018.11.05 @ 20:29:32

Tool Information

Drill Pipe:	Length: 4316.00 ft	Diameter: 3.80 inches	Volume: 60.54 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 61.13 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	4458.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	72.00 ft				
Tool Length:	99.00 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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Stubb	1.00			4432.00	
Shut In Tool	5.00			4437.00	
Hydraulic tool	5.00			4442.00	
Jars	5.00			4447.00	
Safety Joint	2.00			4449.00	
Packer	5.00			4454.00	27.00 Bottom Of Top Packer
Packer	4.00			4458.00	
Stubb	1.00			4459.00	
Recorder	0.00	6651	Inside	4459.00	
Recorder	0.00	8166	Outside	4459.00	
Perforations	1.00			4460.00	
Change Over Sub	1.00			4461.00	
Drill Pipe	63.00			4524.00	
Change Over Sub	1.00			4525.00	
Bullnose	5.00			4530.00	72.00 Bottom Packers & Anchor

Total Tool Length: 99.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Eagle Creek Corporation
8100 E 22nd St North Bldg 1500
Wichita, Ks 67226
ATTN: Rocky Milford

5-17s-34w Scott,KS
Brantner #1-5
Job Ticket: 64268 **DST#: 3**
Test Start: 2018.11.05 @ 20:29:32

Mud and Cushion Information

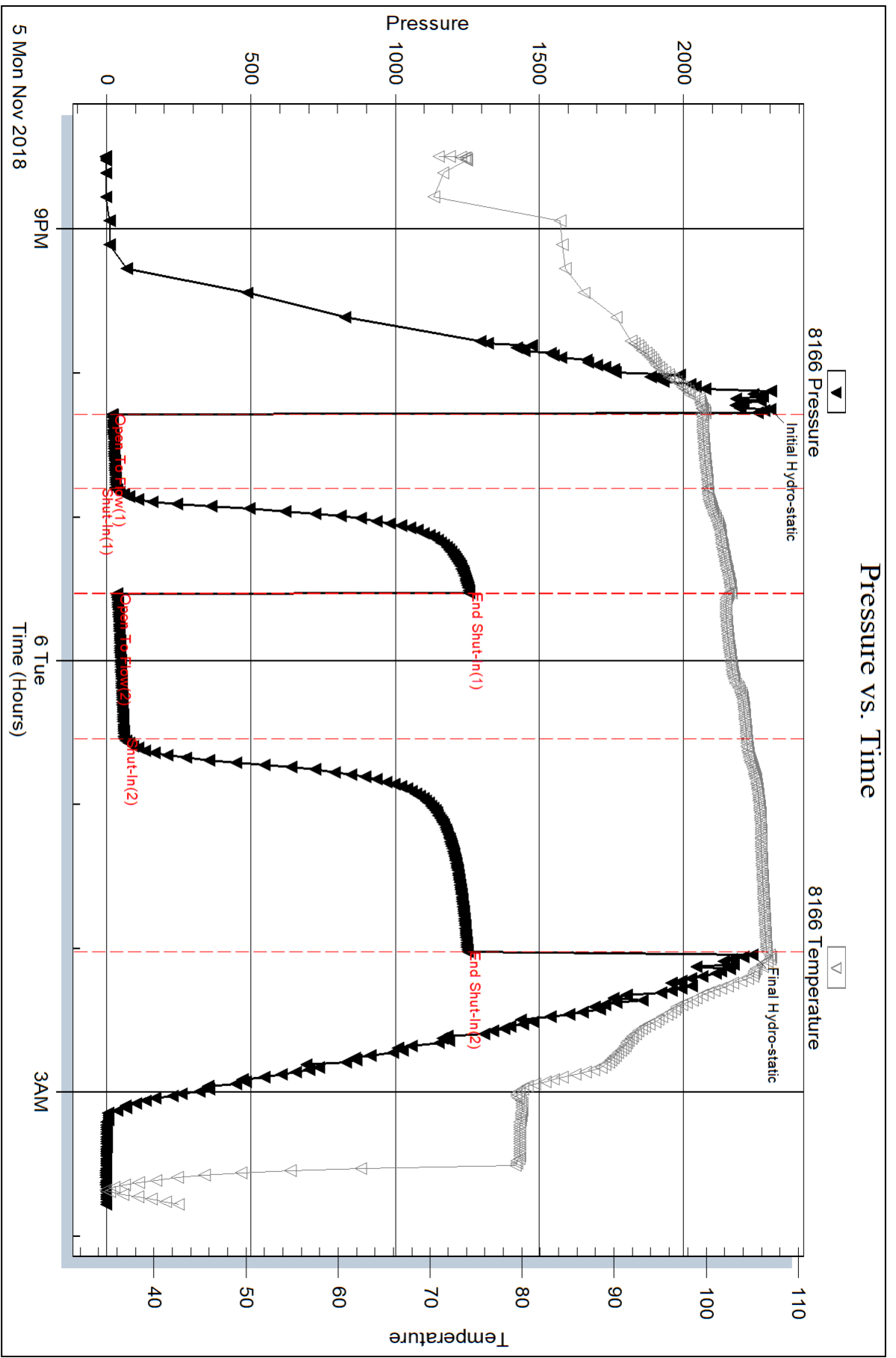
Mud Type: Gel Chem	Cushion Type:	Oil API: 30 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 5000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	ocm 20%o 80%m	0.344
40.00	oil 100%o	0.197

Total Length: 110.00 ft Total Volume: 0.541 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 31@50=30



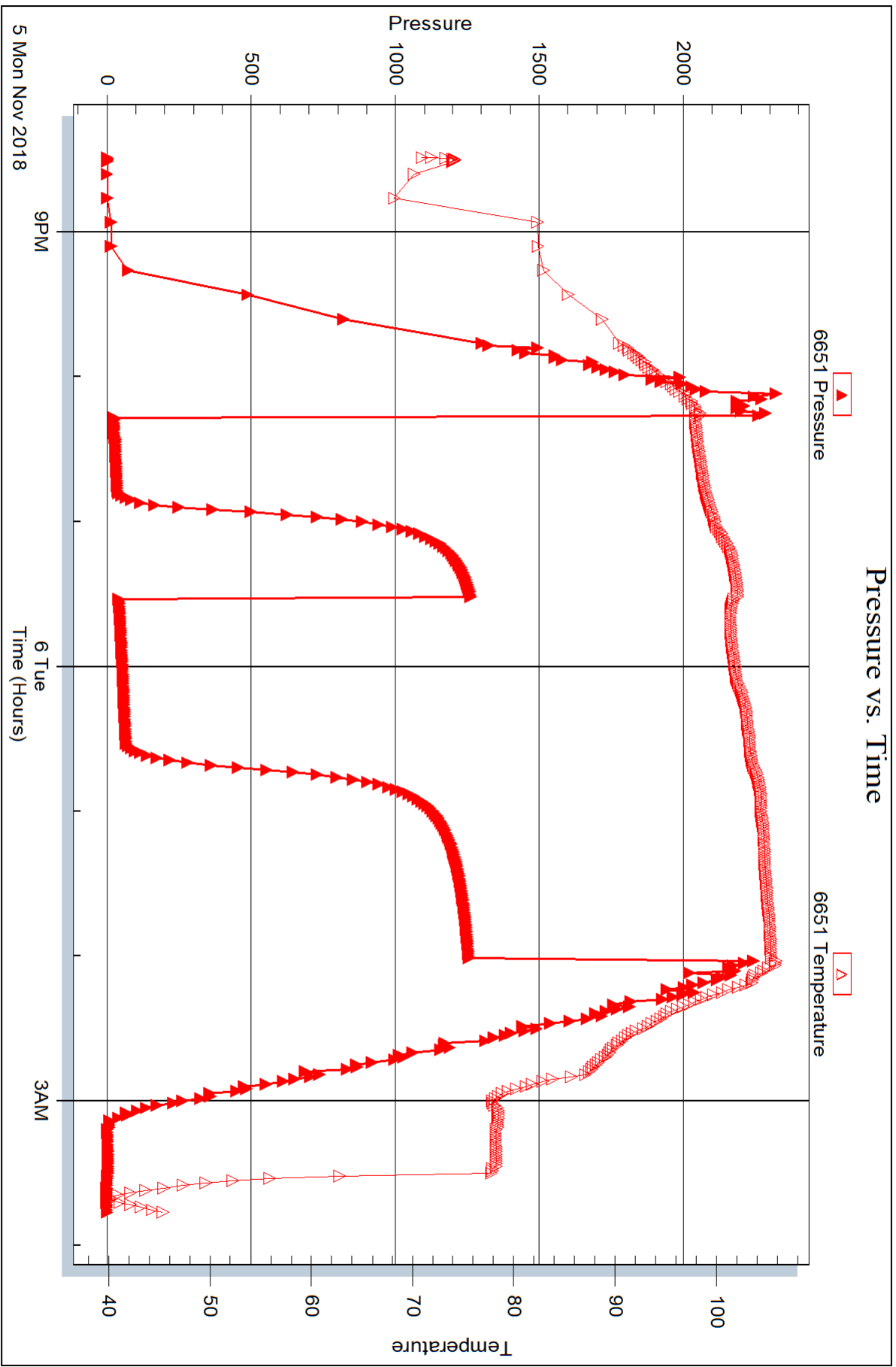
Serial #: 6651

Inside

Eagle Creek Corporation

Branther #1-5

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Corporation**

8100 E 22nd St North Bldg 1500
Wichita, Ks 67226

ATTN: Rocky Milford

Brantner #1-5

5-17s-34w Scott,KS

Start Date: 2018.11.07 @ 08:12:02

End Date: 2018.11.07 @ 16:15:32

Job Ticket #: 64269 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.11.09 @ 15:56:56



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Eagle Creek Corporation
8100 E 22nd St North Bldg 1500
Wichita, Ks 67226
ATTN: Rocky Milford

5-17s-34w Scott,KS
Brantner #1-5
Job Ticket: 64269 **DST#: 4**
Test Start: 2018.11.07 @ 08:12:02

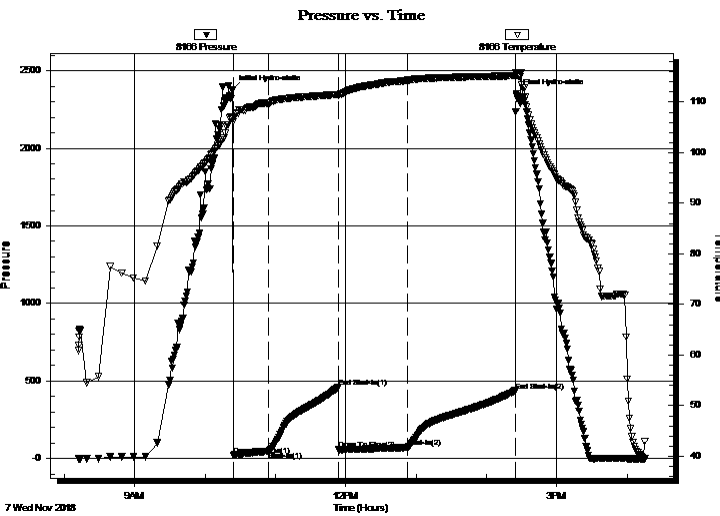
GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:24:02
Time Test Ended: 16:15:32
Interval: **4749.00 ft (KB) To 4775.00 ft (KB) (TVD)**
Total Depth: 4775.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 3153.00 ft (KB)
3148.00 ft (CF)
KB to GR/CF: 5.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

Serial #: 8166 Outside

Press@RunDepth: 70.82 psig @ 4750.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.11.07 End Date: 2018.11.07 Last Calib.: 2018.11.07
Start Time: 08:12:07 End Time: 16:15:31 Time On Btm: 2018.11.07 @ 10:23:02
Time Off Btm: 2018.11.07 @ 14:25:32

TEST COMMENT: IF: 1/2" blow built to 7"
IS: Surface blow built to 1/4"
FF: BOB in 42 min. 12 1/2"
FS: Surface blow built to 1/4"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2375.29	106.73	Initial Hydro-static
1	21.68	106.11	Open To Flow (1)
31	45.70	109.79	Shut-In(1)
91	458.94	111.52	End Shut-In(1)
91	58.82	111.40	Open To Flow (2)
150	70.82	114.29	Shut-In(2)
242	436.79	115.21	End Shut-In(2)
243	2353.04	115.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gocm 10%g 20%o 70%m	0.30
60.00	gocm 10%g 40%o 50%m	0.30
25.00	ocm 40%o 60%m	0.35
0.00	225 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

Eagle Creek Corporation
8100 E 22nd St North Bldg 1500
Wichita, Ks 67226
ATTN: Rocky Milford

5-17s-34w Scott,KS
Brantner #1-5
Job Ticket: 64269 **DST#: 4**
Test Start: 2018.11.07 @ 08:12:02

Tool Information

Drill Pipe:	Length: 4634.00 ft	Diameter: 3.80 inches	Volume: 65.00 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 65.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4749.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Stubb	1.00			4723.00	
Shut In Tool	5.00			4728.00	
Hydraulic tool	5.00			4733.00	
Jars	5.00			4738.00	
Safety Joint	2.00			4740.00	
Packer	5.00			4745.00	27.00 Bottom Of Top Packer
Packer	4.00			4749.00	
Stubb	1.00			4750.00	
Recorder	0.00	6651	Inside	4750.00	
Recorder	0.00	8166	Outside	4750.00	
Perforations	20.00			4770.00	
Bullnose	5.00			4775.00	26.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Eagle Creek Corporation
8100 E 22nd St North Bldg 1500
Wichita, Ks 67226
ATTN: Rocky Milford

5-17s-34w Scott,KS
Brantner #1-5
Job Ticket: 64269 **DST#: 4**
Test Start: 2018.11.07 @ 08:12:02

Mud and Cushion Information

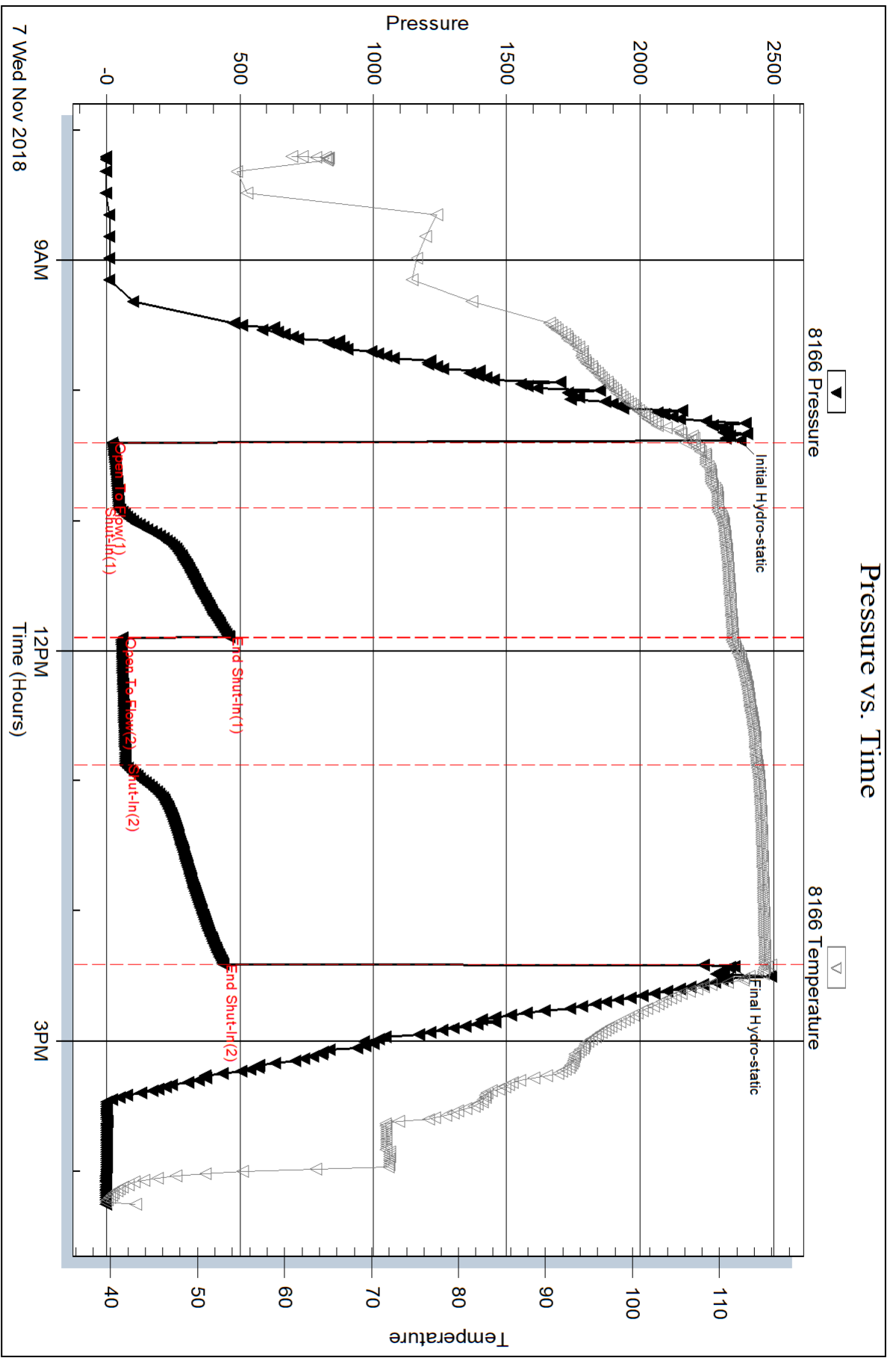
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	gocm 10%g 20%o 70%m	0.295
60.00	gocm 10%g 40%o 50%m	0.295
25.00	ocm 40%o 60%m	0.351
0.00	225 GIP	0.000

Total Length: 145.00 ft Total Volume: 0.941 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



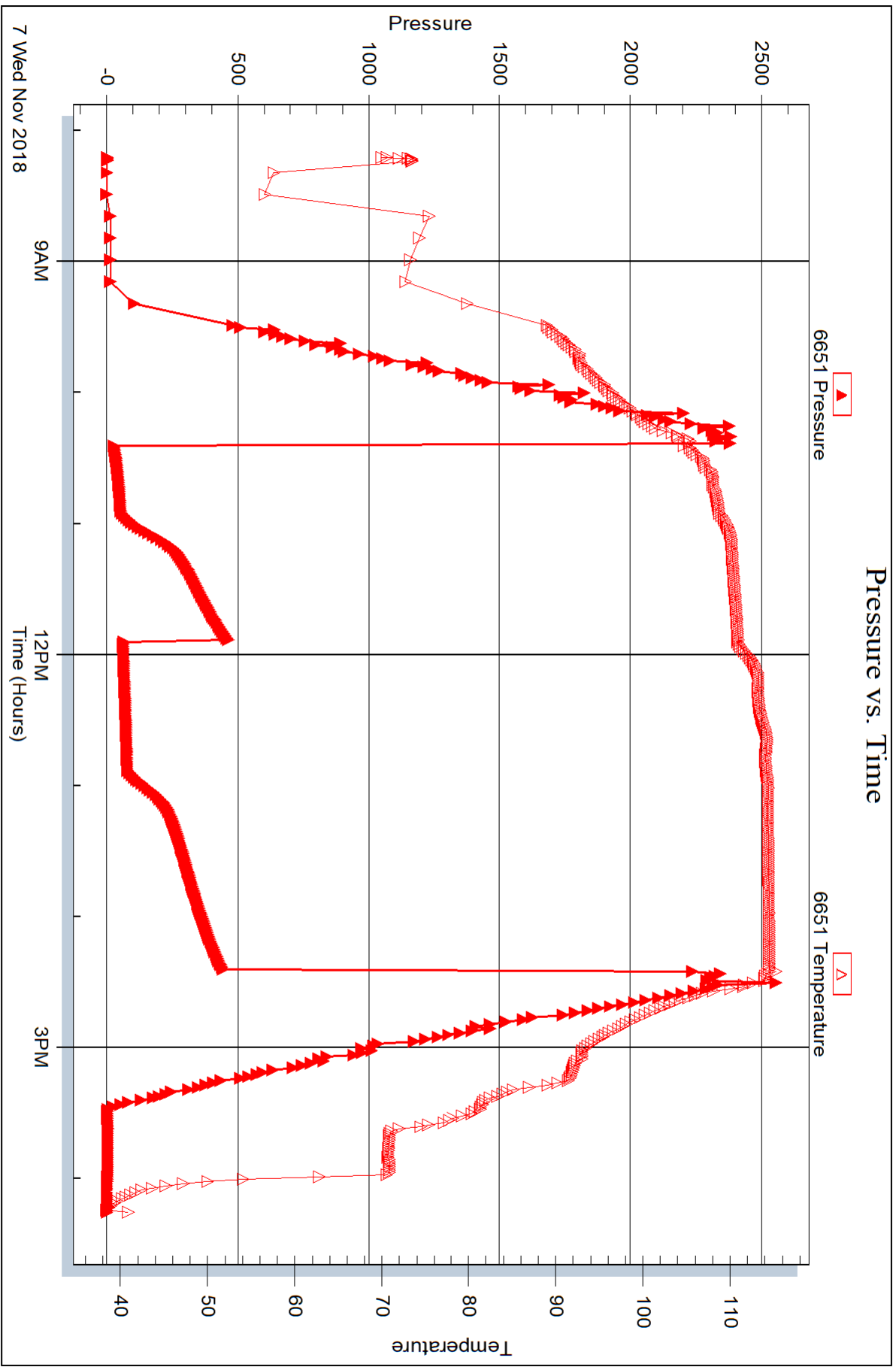
Serial #: 6651

Inside

Eagle Creek Corporation

Brantner #1-5

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 64269

Printed: 2018.11.09 @ 15:56:57



DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Corporation**

8100 E 22nd St North Bldg 1500
Wichita, Ks 67226

ATTN: Rocky Milford

Brantner #1-5

5-17s-34w Scott,KS

Start Date: 2018.11.07 @ 18:34:34

End Date: 2018.11.08 @ 02:10:34

Job Ticket #: 64270 DST #: 5

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.11.09 @ 15:55:54



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Eagle Creek Corporation
 8100 E 22nd St North Bldg 1500
 Wichita, Ks 67226
 ATTN: Rocky Milford

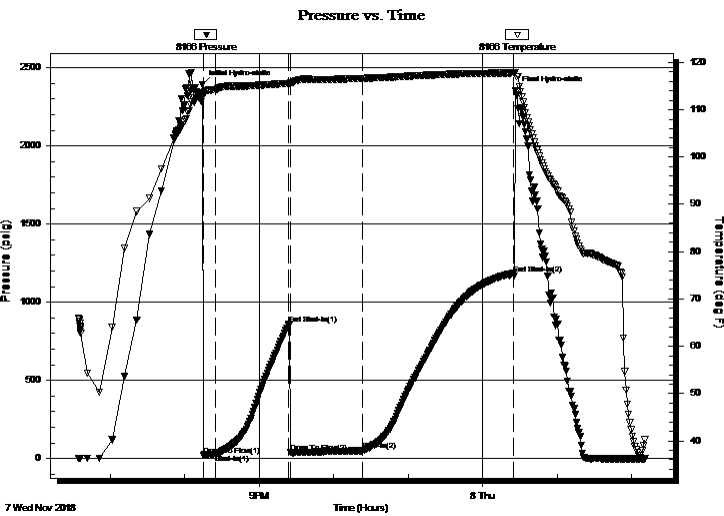
5-17s-34w Scott,KS
Brantner #1-5
 Job Ticket: 64270 **DST#: 5**
 Test Start: 2018.11.07 @ 18:34:34

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:15:04
 Time Test Ended: 02:10:34
 Interval: **4747.00 ft (KB) To 4775.00 ft (KB) (TVD)**
 Total Depth: 4775.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3153.00 ft (KB)
 3148.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8166 Outside
 Press@RunDepth: 50.76 psig @ 4748.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.11.07 End Date: 2018.11.08 Last Calib.: 2018.11.08
 Start Time: 18:34:39 End Time: 02:10:33 Time On Btm: 2018.11.07 @ 20:14:34
 Time Off Btm: 2018.11.08 @ 00:26:34

TEST COMMENT: IF: 1/2" blow built to 2"
 IS: No return.
 FF: 1/4" blow built to 9"
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2392.04	113.69	Initial Hydro-static
1	19.46	112.94	Open To Flow (1)
10	28.83	114.21	Shut-In(1)
70	858.23	115.59	End Shut-In(1)
71	38.11	115.49	Open To Flow (2)
129	50.76	116.61	Shut-In(2)
251	1183.93	117.78	End Shut-In(2)
252	2352.79	117.88	Final Hydro-static

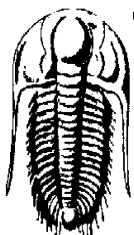
Recovery

Length (ft)	Description	Volume (bbl)
60.00	gocm 10%g 20%o 70%m	0.30
30.00	go 50%o 50%m	0.15
0.00	156 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Eagle Creek Corporation

5-17s-34w Scott,KS

8100 E 22nd St North Bldg 1500
Wichita, Ks 67226

Brantner #1-5

Job Ticket: 64270

DST#: 5

ATTN: Rocky Milford

Test Start: 2018.11.07 @ 18:34:34

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:15:04

Time Test Ended: 02:10:34

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4747.00 ft (KB) To 4775.00 ft (KB) (TVD)

Reference Elevations: 3153.00 ft (KB)

Total Depth: 4775.00 ft (KB) (TVD)

3148.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6651 Inside

Press@RunDepth: psig @ 4748.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.11.07 End Date: 2018.11.08

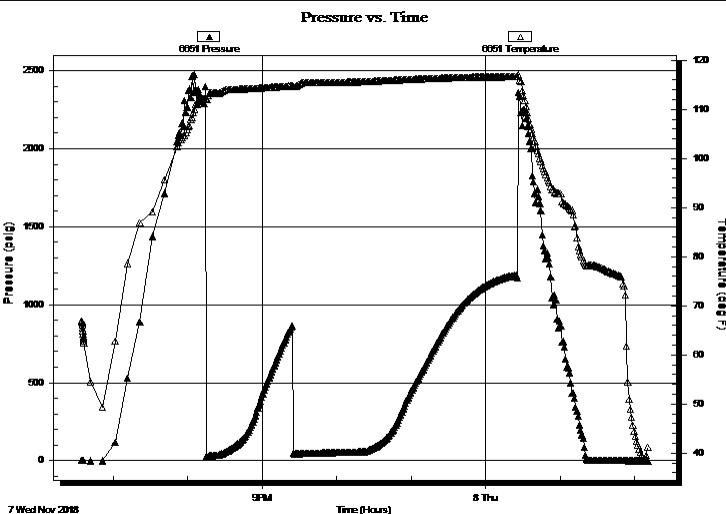
Last Calib.: 2018.11.08

Start Time: 18:34:47 End Time: 02:10:41

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1/2" blow built to 2"
IS: No return.
FF: 1/4" blow built to 9"
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gocm 10%g 20%o 70%m	0.30
30.00	go 50%o 50%m	0.15
0.00	156 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

Eagle Creek Corporation
8100 E 22nd St North Bldg 1500
Wichita, Ks 67226
ATTN: Rocky Milford

5-17s-34w Scott,KS
Brantner #1-5
Job Ticket: 64270 **DST#: 5**
Test Start: 2018.11.07 @ 18:34:34

Tool Information

Drill Pipe:	Length: 4634.00 ft	Diameter: 3.80 inches	Volume: 65.00 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 65.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4747.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Stubb	1.00			4721.00	
Shut In Tool	5.00			4726.00	
Hydraulic tool	5.00			4731.00	
Jars	5.00			4736.00	
Safety Joint	2.00			4738.00	
Packer	5.00			4743.00	27.00 Bottom Of Top Packer
Packer	4.00			4747.00	
Stubb	1.00			4748.00	
Recorder	0.00	6651	Inside	4748.00	
Recorder	0.00	8166	Outside	4748.00	
Perforations	22.00			4770.00	
Bullnose	5.00			4775.00	28.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Eagle Creek Corporation
8100 E 22nd St North Bldg 1500
Wichita, Ks 67226
ATTN: Rocky Milford

5-17s-34w Scott,KS
Brantner #1-5
Job Ticket: 64270 **DST#: 5**
Test Start: 2018.11.07 @ 18:34:34

Mud and Cushion Information

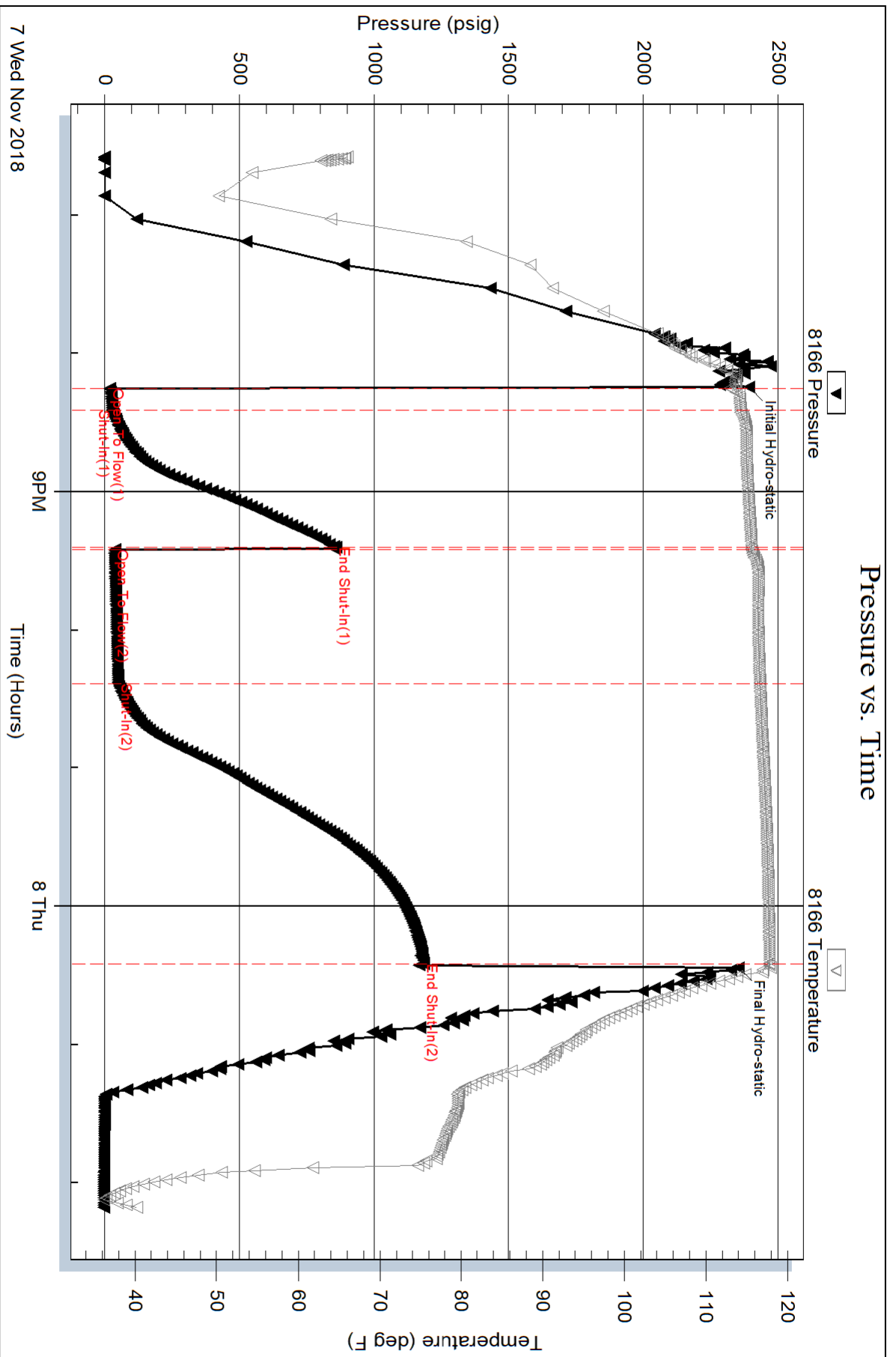
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	gocm 10%g 20%o 70%m	0.295
30.00	go 50%o 50%m	0.148
0.00	156 GIP	0.000

Total Length: 90.00 ft Total Volume: 0.443 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



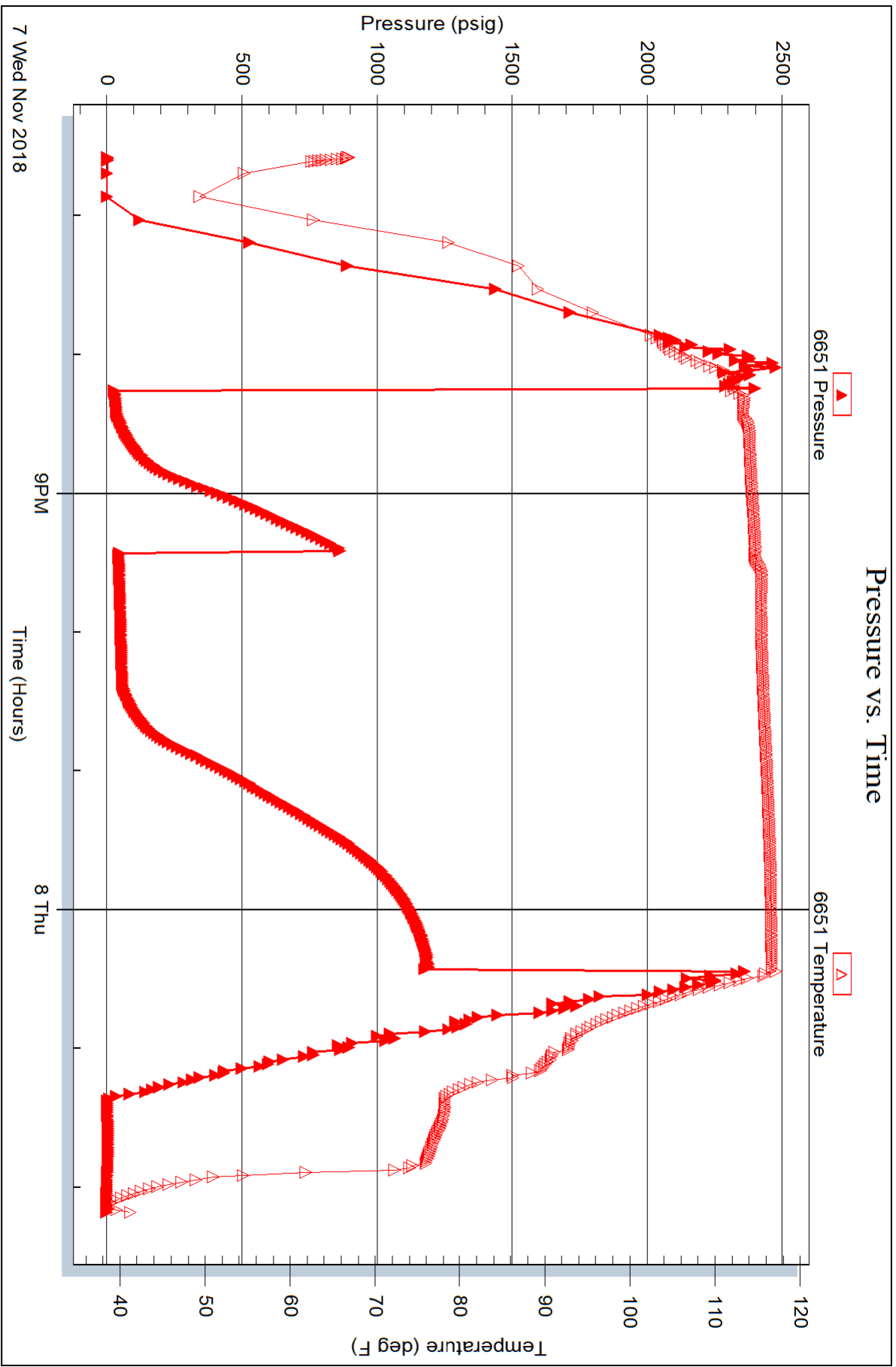
Serial #: 6651

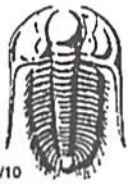
Inside

Eagle Creek Corporation

Brantner #1-5

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64266

Well Name & No. Brantner 1-5 Test No. 1 Date 11-4-18
 Company Eagle Creek Corporation Elevation 3153 KB 3148 GL
 Address 8100 E 22nd St North Bldg 1500 Wichita, KS 67226
 Co. Rep / Geo. Rocky Milford Rig WW#10
 Location: Sec. 5 Twp 17S Rge. 34W Co. Scott State KS

Interval Tested 4280 4315 Zone Tested LKC - I
 Anchor Length 35 Drill Pipe Run 4158 Mud Wt. 9.0
 Top Packer Depth 4275 Drill Collars Run 120 Vis 67
 Bottom Packer Depth 4280 Wt. Pipe Run --- WL 7.2
 Total Depth 4315 Chlorides 3300 ppm System LCM 1.5

Blow Description IF: 1/4 blow died in 14 min.
IS: No return.
FF: No blow.
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>mud</u>			<u>100</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

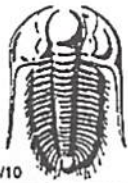
Rec Total 2 BHT 104 Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic 2204 Test 1150 T-On Location 4:40
 (B) First Initial Flow 13 Jars 250 T-Started 5:45
 (C) First Final Flow 17 Safety Joint 75 T-Open 7:48
 (D) Initial Shut-In 493 Circ Sub N/C T-Pulled 9:48
 (E) Second Initial Flow 15 Hourly Standby _____ T-Out 11:15
 (F) Second Final Flow 16 Mileage 52 - 52 Comments _____
 (G) Final Shut-In 565 Sampler _____
 (H) Final Hydrostatic 2128 Straddle _____

Initial Open 30 Shale Packer _____
 Initial Shut-In 30 Shale Packer _____
 Final Flow 30 Extra Packer _____
 Final Shut-In 30 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1527 Sub Total 0
 Total 1527 Total 1527
 MP/DST Disc't _____

Approved By Rocky Milford Our Representative _____

Trilobite Testing Inc. shall not be liable for damaged or 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 of 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. 64267

Well Name & No. Brentner 1-5 Test No. 2 Date 11-4-18
 Company Eagle Creek Corporation Elevation 3153 KB 3148 GL
 Address _____
 Co. Rep / Geo. Rocky Milford Rig WW #10
 Location: Sec. 5 Twp 17S Rge. 34W Co. Scott State KS

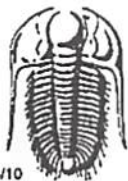
Interval Tested 4388 4410 Zone Tested LKC-L
 Anchor Length 22 Drill Pipe Run 4252 Mud Wt. 9.2
 Top Packer Depth 4583 Drill Collars Run 120 Vis 54
 Bottom Packer Depth 4388 Wt. Pipe Run — WL 7.2
 Total Depth 4410 Chlorides 3500 ppm System LCM 1
 Blow Description ±F: Surface blow stay at surface.
±S: NO return.
FK: Surface blow died in 20 min.
KS: NO return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</u>			<u>100</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 5 BHT 101 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2222</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>23:00</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>23:37</u>
(C) First Final Flow <u>20</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1:42</u>
(D) Initial Shut-In <u>42</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIL</u>	T-Pulled <u>4:12</u>
(E) Second Initial Flow <u>20</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>5:51</u>
(F) Second Final Flow <u>21</u>	<input checked="" type="checkbox"/> Mileage <u>68-</u> 52	Comments _____
(G) Final Shut-In <u>35</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>2205</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1527</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1527</u>	

Approved By Rocky Milford Our Representative [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. 64268

Well Name & No. Brantner 1-5 Test No. 3 Date 11-5-18
 Company Eagle Creek Corporation Elevation 3153 KB 3148 GL
 Address _____
 Co. Rep / Geo. Rocky Milford Rig WW#10
 Location: Sec. 5 Twp 17S Rge. 34W Co. Scott State KS

Interval Tested 4458 4530 Zone Tested Marmaton A-C
 Anchor Length _____ 72 Drill Pipe Run 4316 Mud Wt. 9.3
 Top Packer Depth _____ 4453 Drill Collars Run 120 Vis 58
 Bottom Packer Depth _____ 4458 Wt. Pipe Run _____ WL 8.8
 Total Depth _____ 4530 Chlorides 5000 ppm System LCM 1
 Blow Description IF: 1/4 blow built to 2 1/4,
IS: No return.
FS: Surface blow built to 3,
FI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>oil</u>		<u>100</u>		
<u>70</u>	<u>OCM</u>		<u>20</u>		<u>80</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

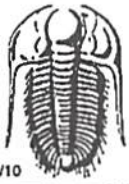
Rec Total 110 BHT 106 Gravity 30 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2300 Test 1150 T-On Location 20:00
 (B) First Initial Flow 19 Jars 250 T-Started 20:29
 (C) First Final Flow 31 Safety Joint 75 T-Open 22:15
 (D) Initial Shut-In 1258 Circ Sub NIC T-Pulled 2:00
 (E) Second Initial Flow 36 Hourly Standby _____ T-Out 3:48
 (F) Second Final Flow 60 Mileage 52-52 52 Comments _____
 (G) Final Shut-In 1251 Sampler _____
 (H) Final Hydrostatic 2298 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1527

Initial Open 30
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 90

Sub Total 0
 Total 1527
 MP/DST Disc't _____

Approved By Rocky Milford Our Representative [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. 64269

4/10

Well Name & No. Brentner 1-5 Test No. 4 Date 11-7-18
 Company Eagle Creek Corporation Elevation 3153 KB 3148 GL
 Address _____
 Co. Rep / Geo. Rocky Milford Rig WWS #10
 Location: Sec. 5 Twp 175 Rge. 34W Co. Scott State KS

Interval Tested 4749 4775 Zone Tested Johnson
 Anchor Length _____ 26 Drill Pipe Run 4634 Mud Wt. 9.2
 Top Packer Depth _____ 4744 Drill Collars Run 120 Vis 57
 Bottom Packer Depth _____ 4749 Wt. Pipe Run _____ WL 9.6
 Total Depth _____ 4775 Chlorides 5500 ppm System LCM 2

Blow Description IF: 1/2 blow built to 7.
FS: surface blow built to 1/4.
FB: BoB in 42 min. 12 1/2"
FS: surface blow built to 1/4.

Rec	Feet of	%gas	%oil	%water	%mud
<u>25</u>	<u>ocm</u>	<u>40</u>		<u>60</u>	
<u>60</u>	<u>90cm</u>	<u>10</u>	<u>40</u>	<u>50</u>	
<u>60</u>	<u>90cm</u>	<u>10</u>	<u>20</u>	<u>70</u>	
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 145 BHT 115 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

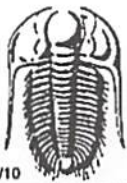
(A) Initial Hydrostatic 2375 Test 1150 T-On Location 7:45
 (B) First Initial Flow 21 Jars 250 T-Started 8:12
 (C) First Final Flow 45 Safety Joint 75 T-Open 10:23
 (D) Initial Shut-In 458 Circ Sub N/C T-Pulled 14:23
 (E) Second Initial Flow 58 Hourly Standby _____ T-Out 16:18
 (F) Second Final Flow 70 Mileage 52 - 52 Comments _____
 (G) Final Shut-In 436 Sampler _____
 (H) Final Hydrostatic 2353 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1527

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

Sub Total 1527
 Total 1527
 MP/DST Disc't _____

Approved By Rocky Milford Our Representative [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 of 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. 64270

Well Name & No. Bramtner 1-5 Test No. 5 Date 11-7-18
 Company Eagle Creek Corporation Elevation 3153 KB 3148 GL
 Address _____
 Co. Rep / Geo. Rocky Milford Rig WW #10
 Location: Sec. 5 Twp 17S Rge. 34W Co. Scott State KS

Interval Tested 4747 4775 Zone Tested Johnson
 Anchor Length 28 Drill Pipe Run 4634 Mud Wt. 9.2
 Top Packer Depth 4742 Drill Collars Run 120 Vis 57
 Bottom Packer Depth 4747 Wt. Pipe Run _____ WL 7.2
 Total Depth 4775 Chlorides 5000 ppm System LCM 2

Blow Description IF! 1/2 blow built to 2.
FS! No return.
FF! 1/4 blow built to 9.
FS! No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>0cm</u>	<u>50</u>		<u>50</u>	
<u>60</u>	<u>90cm</u>	<u>10</u>	<u>20</u>	<u>70</u>	
<u>156</u>	<u>6IP</u>				

Rec Total 90 BHT 117 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2392 Test 1150 T-On Location 18:15
 (B) First Initial Flow 19 Jars 250 T-Started 18:34
 (C) First Final Flow 28 Safety Joint 75 T-Open 20:15
 (D) Initial Shut-In 858 Circ Sub NIL T-Pulled 00:25
 (E) Second Initial Flow 38 Hourly Standby _____ T-Out 2:13
 (F) Second Final Flow 50 Mileage 52-x2 52+52
 (G) Final Shut-In 1183 Sampler _____
 (H) Final Hydrostatic 2352 Straddle _____
 Shale Packer 250
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 10
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 120

Sub Total 1829
 Sub Total 1829

Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1829
 MP/DST Disc't _____

Approved By Rocky Milford Our Representative [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.



PRESSURE PUMPING LLC
 PO Box 884, Chanute, KS 66720
 620-431-9210 or 800-467-8676

11944
 11825

TICKET NUMBER 55889
 LOCATION Oakley, KS
 FOREMAN Walt Dunkel
 814485

FIELD TICKET & TREATMENT REPORT
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-31-18	2776	Brentner 1-5	5	17 ^s	34 ^w	Scott
CUSTOMER Eagle Creek		Pange West to Apache 3 1/2 S EIS	TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS			731	Cory Davis		
CITY		STATE	ZIP CODE			
			528-T127	Neil White		
			697	Walt Dunkel		

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 262' CASING SIZE & WEIGHT 8 5/8 23#
 CASING DEPTH 262' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 15.2 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 1.5-20'
 DISPLACEMENT 15.4 DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS: Safety Meeting, Rig up on WW #10, circ casing on bottom mixed 180 SKS cement, displaced 15.4 BBL H₂O, shut in

Cement did circ
• BBL to Pt

Thank You
Walt & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
C0471 ✓	1	✓ PUMP CHARGE	1,150.00	1,150.00
C0002 ✓	45	✓ MILEAGE	7.15	321.75
C0710 ✓	8.46	✓	175	666.45
18559 C05871 ✓	180 SKS	✓ Surface Blend II	24.00	4,320.00
				6,458.20
				1,614.55
				4,843.65 ✓
				275.40 ✓
				5119.05

SCANNED

Less 25%

RAVIN 3737 AUTHORIZATION [Signature] TITLE _____ DATE _____
 SALES TAX ESTIMATED TOTAL

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1060

Date	11-9-18	Sec.	5	Twp.	17	Range	34	County	Scott	State	KS	On Location		Finish	10:45AM
Location								Pence 3w 3 1/2s Pinto							
Lease	Branter			Well No.	1-5			Owner							
Contractor	LW #10			To Quality Oilwell Cementing, Inc.											
Type Job	Rotary Plug			You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.											
Hole Size	7 7/8			T.D.	4930			Charge To	Eagle Creek Corporation						
Csg.				Depth				Street							
Tbg. Size				Depth				City	State						
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.				Shoe Joint				Cement Amount Ordered	270 ^{bu} /40 4/62 1/4 #10						
Meas Line				Displace											
EQUIPMENT															
Pumptrk	17	No.		Cementer	Drew			Common	162						
				Helper	Craig			Poz. Mix	108						
Bulktrk		No.		Driver	Craig			Gel.	10						
Bulktrk	9	No.		Driver	Doug			Calcium							
				Driver	Doug			Hulls							
JOB SERVICES & REMARKS															
Remarks:							Salt								
Rat Hole	309K						Flowseal 75#								
Mouse Hole							Kol-Seal								
Centralizers							Mud CLR 48								
Baskets							CFL-117 or CD110 CAF 38								
D/V or Port Collar							Sand								
	1SE	2460	509K				Handling 280								
	2nd	1530	809K				Mileage								
	3rd	775	509K				FLOAT EQUIPMENT								
	4th	240	409K				Guide Shoe								
	5th	60	209K				Centralizer								
							Baskets								
							AFU Inserts								
							Float Shoe								
							Latch Down								
							Pumptrk Charge plug								
							Mileage 40								
							Tax								
							Discount								
							Total Charge								
X Signature	Rich Wilson														

Thanks

Robert L. Milford

PETROLEUM GEOLOGIST
Wichita, Kansas

GEOLOGISTS' REPORT

DRILLING TIME AND SAMPLE LOGS

OPERATOR Eagle Creek Corporation
LEASE Brather #1-5
LOC SPOT 137 S & 66 E of SE NW SW
CL 3148

ELEVATIONS
KB 3153
GB 3148

LOC FOOTAGE 1513 FSL & 1056 FWL
SEC 5 TWSP 175 RING 34W
COUNTY Scott STATE Kansas

APR 15-171-21238-09-00
CONTRACTOR WMI/Phillips Co
DRILLING STARTED 10-30-2018 COMPLETED 11-8-2018
MUD DIRECTION 3481 MUD TYPE GUMMED
DRILLING TIME FROM 3:50 TO 1:10
SAMPLES SAVED FROM 3:600 TO 4:100
SAMPLES EXAMINED FROM 3:600 TO 4:100
GEOLOGICAL SUPERVISION FROM 3:481 TO RTD

WISCONSIN FORM 4
SURFACE 8 5/8" @ 36"
MUD 1 3/8" SOLE CENTER
PRODUCTION none

FORMATION NAME LOG TOP DATUM TOP DATUM
Bages Stone Corral 2496' +697' 2497' +696'
Heebner Shale 4101' -857' 4101' -857'
Lanberg 4057' -904' 4057' -904'
Stark Shale 4339' -186' 4339' -186'
B/KC 4462' -1309' 4462' -1309'
Marmaton 4496' -1343' 4496' -1343'
Cherokee Shale 4619' -1466' 4619' -1466'
Morron Shale 4780' -1627' 4780' -1627'
Mississippi 4864' -1711' 4863' -1710'
Total Depth 4930' -1777' 4930' -1777'

FORMATION NAME LOG TOP DATUM TOP DATUM
SANDSTONE
NEUTRON PE LOG
Micro Log
Sonic Log

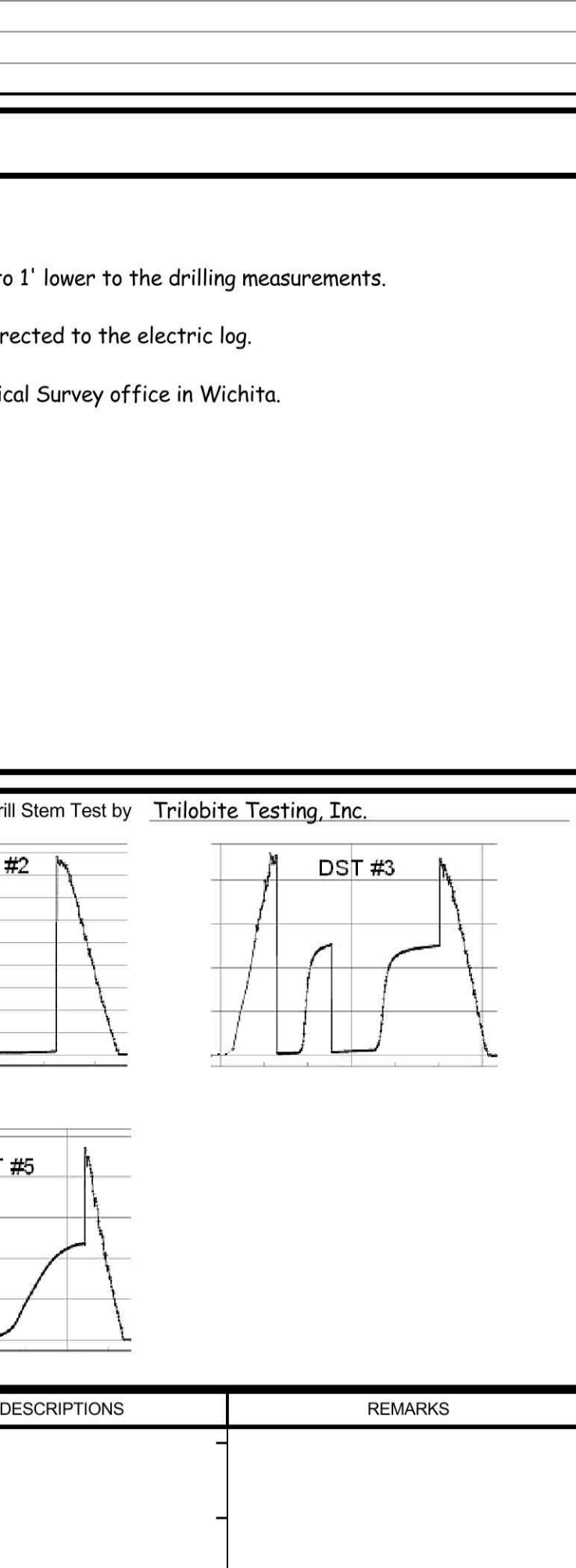
FORMATIONS
BAGES STONE CORRAL
HEEBNER SHALE
LANBERG
STARK SHALE
B/KC
MARMATON
CHEROKEE SHALE
MORRON SHALE
MISSISSIPPI
TOTAL DEPTH

DATE 10-30-18 10-31-18 11-1-18 11-2-18 11-3-18 11-4-18 11-5-18 11-6-18 11-7-18 11-8-18 11-9-18
7:00 AM DEPTH 0' 262' 2148' 3396' 3970' 4315' 4410' 4530' 4775' 4804' 4930'
REMARKS Spud @ 6:30 pm. Dev.: 0.25" @ 262'. Plug down @ 1:30 am on 10-31-18
Cut 262' in last 24 hrs; 2.75 hrs drlg. Drilled out plug @ 12:30 pm
Cut 1,886' in last 24 hrs; 16.25 hrs drlg.
Cut 1,248' in last 24 hrs; 16.75 hrs drlg.
Cut 574' in last 24 hrs; 20.25 hrs drlg. DST #1 @ 4315'
Cut 345' in last 24 hrs; 15.25 hrs drlg. DST #2 @ 4410'
Cut 95' in last 24 hrs; 4.5 hrs drlg. DST #3 @ 4530'
Cut 120' in last 24 hrs; 6.25 hrs drlg. DST #4 @ 4775'
Cut 245' in last 24 hrs; 19.5 hrs drlg. DST #5 @ 4775'
Cut 29' in last 24 hrs; 1.5 hrs drlg. RTD 4930' @ 4:06 pm
Cut 126' in last 24 hrs; 8 hrs drlg. Plugged and abandoned

REMARKS

Remarks
The electric log measurements correlate from 2' higher to 1' lower to the drilling measurements.
Formation tops and lithology on this report have been corrected to the electric log.
The drilling samples were deposited at the Kansas Geological Survey office in Wichita.
Respectfully submitted,
Robert L. Milford

Drill Stem Test Charts

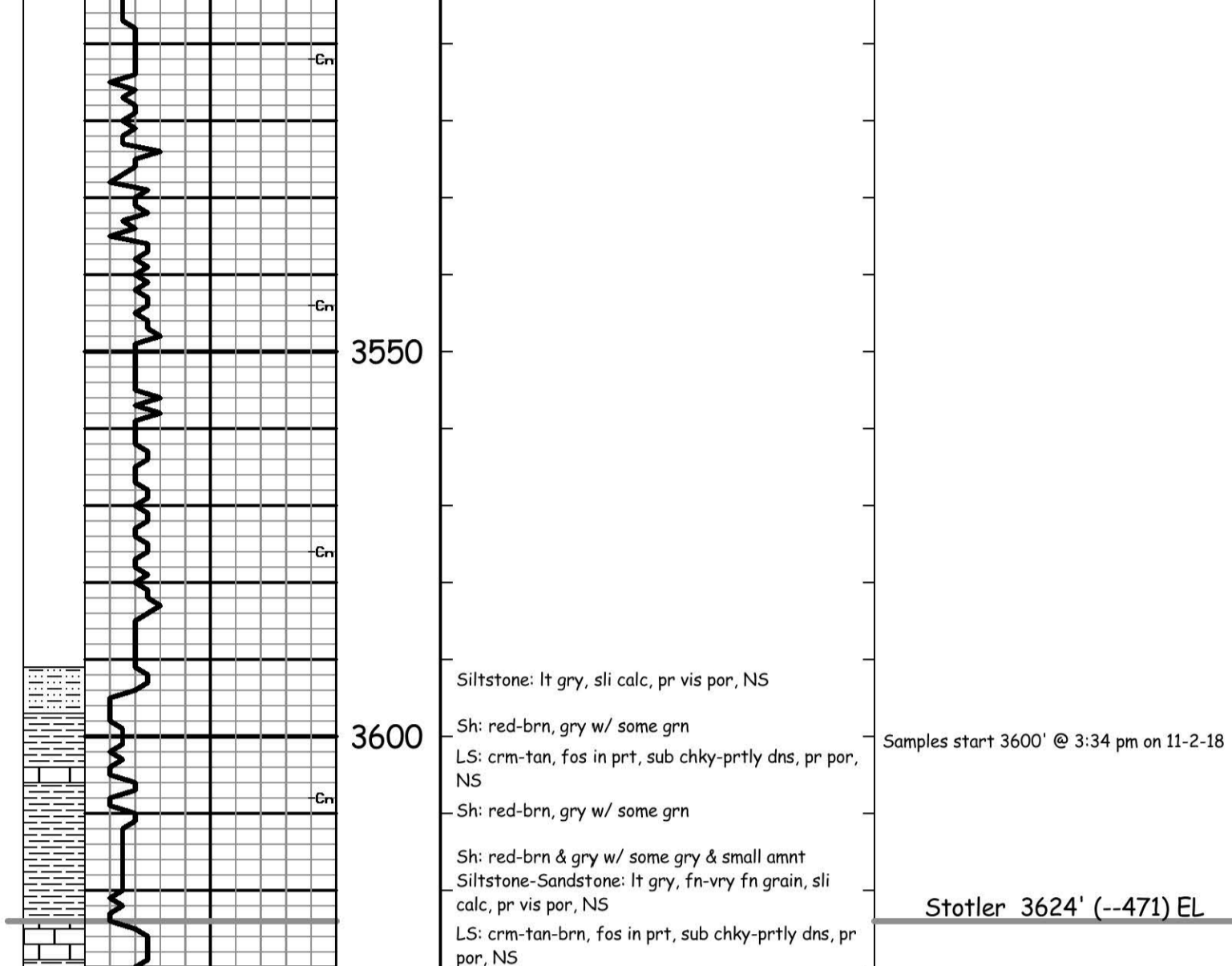


DATE	7:00 AM DEPTH	REMARKS
10-30-18	0'	Spud @ 6:30 pm. Dev.: 0.25" @ 262'. Plug down @ 1:30 am on 10-31-18
10-31-18	262'	Cut 262' in last 24 hrs; 2.75 hrs drlg. Drilled out plug @ 12:30 pm
11-1-18	2148'	Cut 1,886' in last 24 hrs; 16.25 hrs drlg.
11-2-18	3396'	Cut 1,248' in last 24 hrs; 16.75 hrs drlg.
11-3-18	3970'	Cut 574' in last 24 hrs; 20.25 hrs drlg. DST #1 @ 4315'
11-4-18	4315'	Cut 345' in last 24 hrs; 15.25 hrs drlg. DST #2 @ 4410'
11-5-18	4410'	Cut 95' in last 24 hrs; 4.5 hrs drlg. DST #3 @ 4530'
11-6-18	4530'	Cut 120' in last 24 hrs; 6.25 hrs drlg. DST #4 @ 4775'
11-7-18	4775'	Cut 245' in last 24 hrs; 19.5 hrs drlg. DST #5 @ 4775'
11-8-18	4804'	Cut 29' in last 24 hrs; 1.5 hrs drlg. RTD 4930' @ 4:06 pm
11-9-18	4930'	Cut 126' in last 24 hrs; 8 hrs drlg. Plugged and abandoned

Remarks

The electric log measurements correlate from 2' higher to 1' lower to the drilling measurements.
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Drill Stem Test Charts



LITH	DRILL TIME (MIN/FT)	DEPTH	SAMPLE DESCRIPTIONS	REMARKS
------	---------------------	-------	---------------------	---------

Stone Corral 2437' (+716) EL

B/Stone Corral 2456' (+697) EL

Stotler 3624' (-471) EL

Oread 3949' (-796) EL

Heebner 4010' (-857) EL

Toronto 4029' (-876) EL

Lansing 4057' (-904) EL

Muncie Creek 4242' (-1089) EL

Stark 4339' (-1186) EL

Hushpuckney 4390' (-1237) EL

B/KC 4462' (-1309) EL

Marmaton 4496' (-1343) EL

Pawnee 4568' (-1415) EL

Labette 4602' (-1449) EL

Cherokee 4619' (-1466) EL

Johnson zone 4709' (-1556) EL

L.T.D. 4930' (-1777)

Miss. 4864' (-1711) EL

Stark 4339' (-1186) EL

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