



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1212167  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

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       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
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

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

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1212167

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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:  
 Flowing    Pumping    Gas Lift    Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Eagle Creek Corporation
Well Name	BARNHART 1-19
Doc ID	1212167

All Electric Logs Run

DUAL INDUCTION
COMPENSATED NEUTRON DENSITY
MICROLOG
SONIC





## DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Corp**

8100 E 22nd St. North BLDG1500 Suite A  
Wichita, KS 67226

ATTN: Gary Gensch

### **Barnhart #1-19**

#### **19-17s-34w Scott,KS**

Start Date: 2014.05.04 @ 11:40:44

End Date: 2014.05.04 @ 17:50:29

Job Ticket #: 56345                      DST #: 1

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

Printed: 2014.05.13 @ 09:37:32

Eagle Creek Corp  
19-17s-34w Scott,KS  
Barnhart #1-19  
DST # 1  
LKC "I"  
2014.05.04



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Eagle Creek Corp  
 8100 E 22nd St. North BLDG1500 Suite A  
 Wichita, KS 67226  
 ATTN: Gary Gensch

**19-17s-34w Scott, KS**  
**Barnhart #1-19**  
 Job Ticket: 56345 **DST#: 1**  
 Test Start: 2014.05.04 @ 11:40:44

## GENERAL INFORMATION:

Formation: **LKC "I"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:59:44  
 Time Test Ended: 17:50:29  
 Interval: **4272.00 ft (KB) To 4312.00 ft (KB) (TVD)**  
 Total Depth: 4312.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane McBride  
 Unit No: 55  
 Reference Elevations: 3144.00 ft (KB)  
 3136.00 ft (CF)  
 KB to GR/CF: 8.00 ft

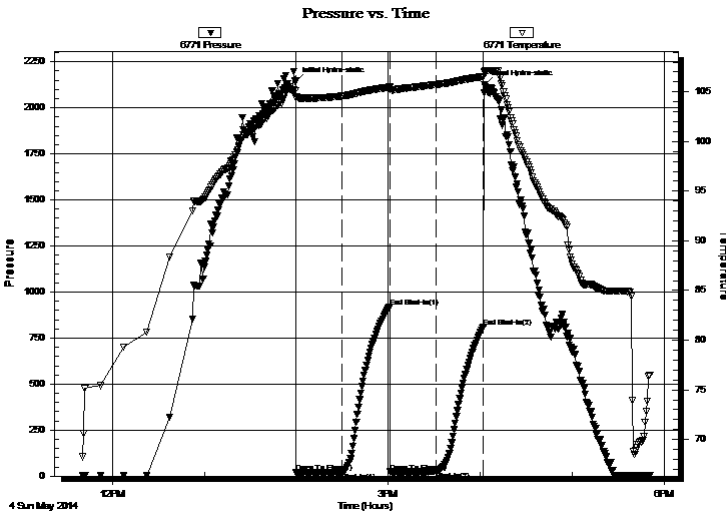
## Serial #: 6771

Inside

Press@RunDepth: 24.88 psig @ 4273.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.05.04 End Date: 2014.05.04 Last Calib.: 2014.05.04  
 Start Time: 11:40:44 End Time: 17:50:29 Time On Btm: 2014.05.04 @ 13:59:29  
 Time Off Btm: 2014.05.04 @ 16:02:44

TEST COMMENT: Surface blow died in 11 min.  
 No return  
 No blow  
 No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2143.88	105.13	Initial Hydro-static
1	18.95	104.43	Open To Flow (1)
30	21.70	104.57	Shut-In(1)
62	919.97	105.47	End Shut-In(1)
62	23.03	105.22	Open To Flow (2)
92	24.88	105.73	Shut-In(2)
123	811.15	106.53	End Shut-In(2)
124	2126.63	107.05	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud w/oil scum 100%m	0.02
0.00	show of oil on top 1/2"	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Eagle Creek Corp  
8100 E 22nd St. North BLDG1500 Suite A  
Wichita, KS 67226  
ATTN: Gary Gensch

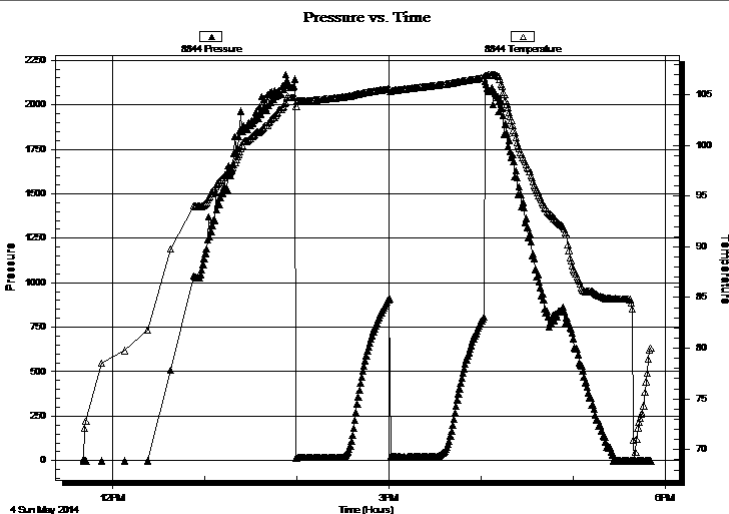
**19-17s-34w Scott,KS**  
**Barnhart #1-19**  
Job Ticket: 56345 **DST#: 1**  
Test Start: 2014.05.04 @ 11:40:44

### GENERAL INFORMATION:

Formation: **LKC "I"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 13:59:44  
Time Test Ended: 17:50:29  
Interval: **4272.00 ft (KB) To 4312.00 ft (KB) (TVD)**  
Total Depth: 4312.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Shane McBride  
Unit No: 55  
Reference Elevations: 3144.00 ft (KB)  
3136.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8844 Outside**  
Press@RunDepth: psig @ 4273.00 ft (KB)  
Start Date: 2014.05.04 End Date: 2014.05.04  
Start Time: 11:41:12 End Time: 17:50:42  
Capacity: 8000.00 psig  
Last Calib.: 2014.05.04  
Time On Btm:  
Time Off Btm:

**TEST COMMENT:** Surface blow died in 11 min.  
No return  
No blow  
No return



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud w/oil scum 100% <sub>m</sub>	0.02
0.00	show of oil on top 1/2"	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Eagle Creek Corp

**19-17s-34w Scott,KS**

8100 E 22nd St. North BLDG1500 Suite A  
Wichita, KS 67226

**Barnhart #1-19**

Job Ticket: 56345

**DST#: 1**

ATTN: Gary Gensch

Test Start: 2014.05.04 @ 11:40:44

## Tool Information

Drill Pipe:	Length: 4254.00 ft	Diameter: 3.80 inches	Volume: 59.67 bbl	Tool Weight: 1500.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 59.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4272.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4253.00	
Shut In Tool	5.00			4258.00	
Hydraulic tool	5.00			4263.00	
Packer	5.00			4268.00	20.00 Bottom Of Top Packer
Packer	4.00			4272.00	
Stubb	1.00			4273.00	
Recorder	0.00	6771	Inside	4273.00	
Recorder	0.00	8844	Outside	4273.00	
Anchor	34.00			4307.00	
Bullnose	5.00			4312.00	40.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>60.00</b>				





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Eagle Creek Corp

**19-17s-34w Scott,KS**

8100 E 22nd St.North BLDG1500 Suite A  
Wichita, KS 67226

**Barnhart #1-19**

Job Ticket: 56345

**DST#: 1**

ATTN: Gary Gensch

Test Start: 2014.05.04 @ 11:40:44

### 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.14 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	mud w /oil scum 100%m	0.025
0.00	show of oil on top 1/2"	0.000

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:

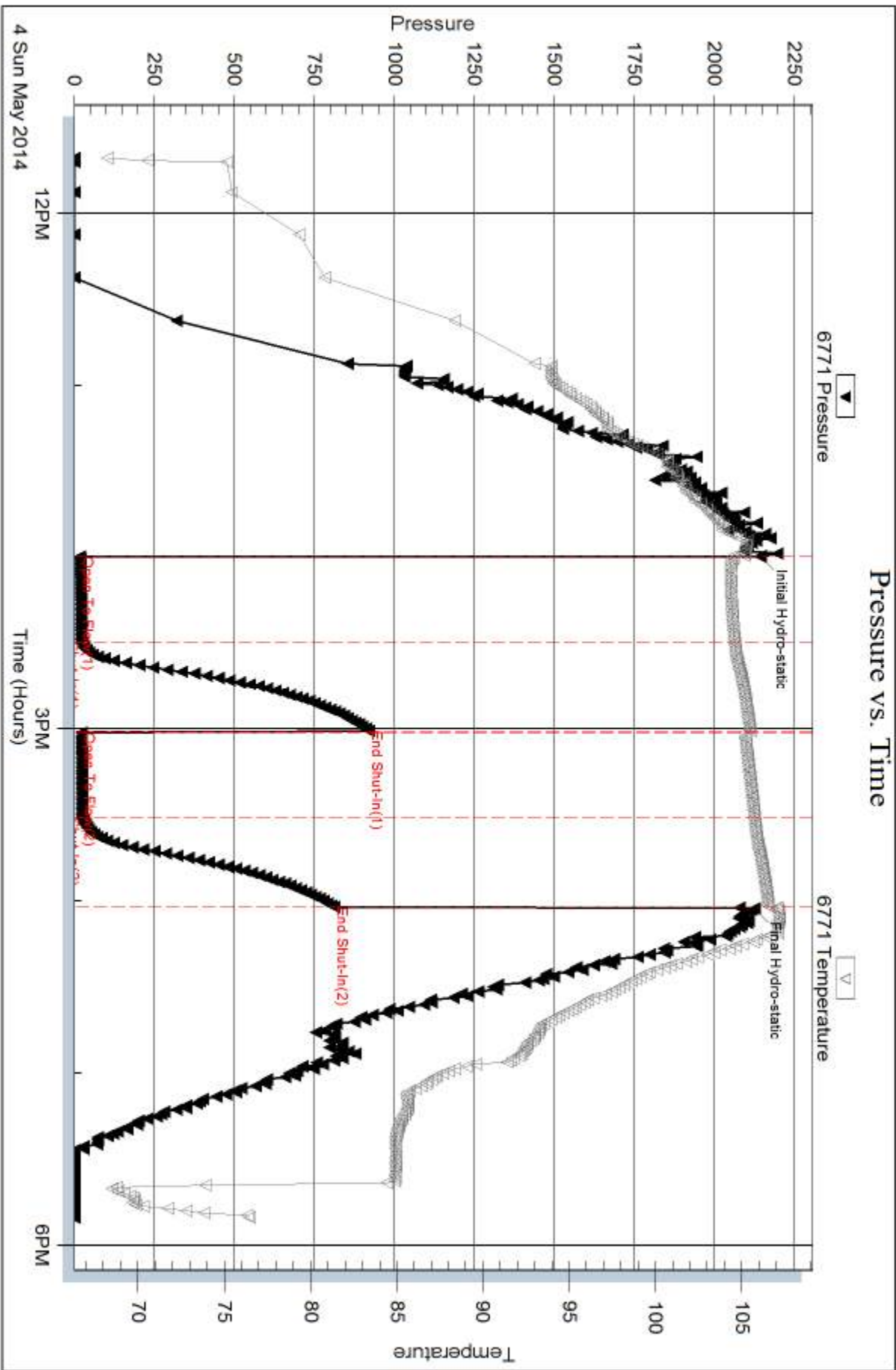
Serial #: 6771

Inside

Eagle Creek Corp

Barnhart #1-19

DST Test Number: 1

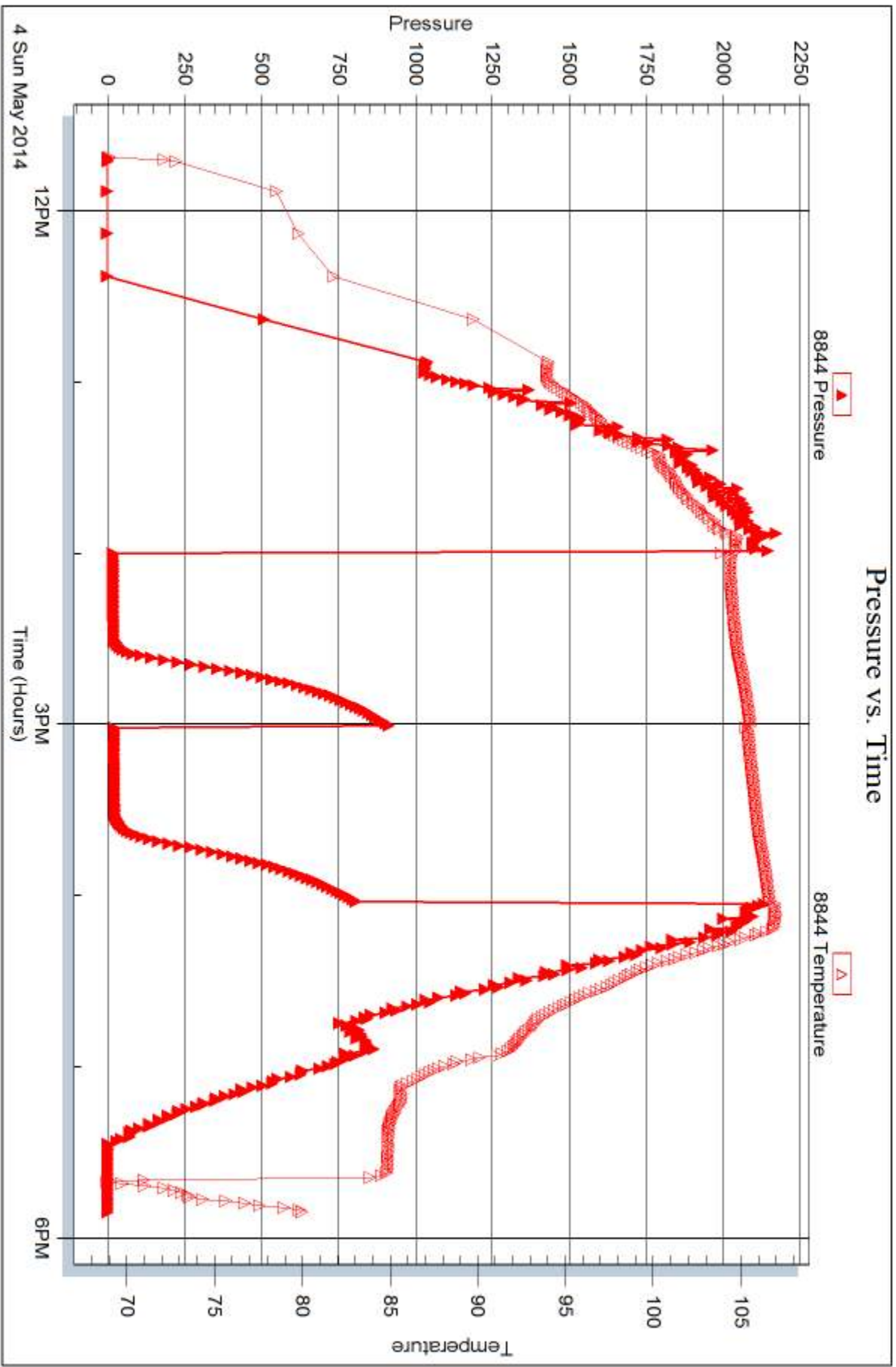


Serial #: 8844

Outside Eagle Creek Corp

Barnhart #1-19

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 56345

Printed: 2014.05.13 @ 09:37:34



## DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Corp**

8100 E 22nd St. North BLDG1500 Suite A  
Wichita, KS 67226

ATTN: Gary Gensch

### **Barnhart #1-19**

#### **19-17s-34w Scott,KS**

Start Date: 2014.05.05 @ 03:50:36

End Date: 2014.05.05 @ 10:04:36

Job Ticket #: 56346                      DST #: 2

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

Printed: 2014.05.13 @ 09:36:42



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Eagle Creek Corp  
 8100 E 22nd St. North BLDG1500 Suite A  
 Wichita, KS 67226  
 ATTN: Gary Gensch

**19-17s-34w Scott, KS**  
**Barnhart #1-19**  
 Job Ticket: 56346 **DST#: 2**  
 Test Start: 2014.05.05 @ 03:50:36

## GENERAL INFORMATION:

Formation: **LKC lower J - upper**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:48:21  
 Time Test Ended: 10:04:36  
 Interval: **4328.00 ft (KB) To 4355.00 ft (KB) (TVD)**  
 Total Depth: 4355.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Shane McBride  
 Unit No: 55  
 Reference Elevations: 3144.00 ft (KB)  
 3136.00 ft (CF)  
 KB to GR/CF: 8.00 ft

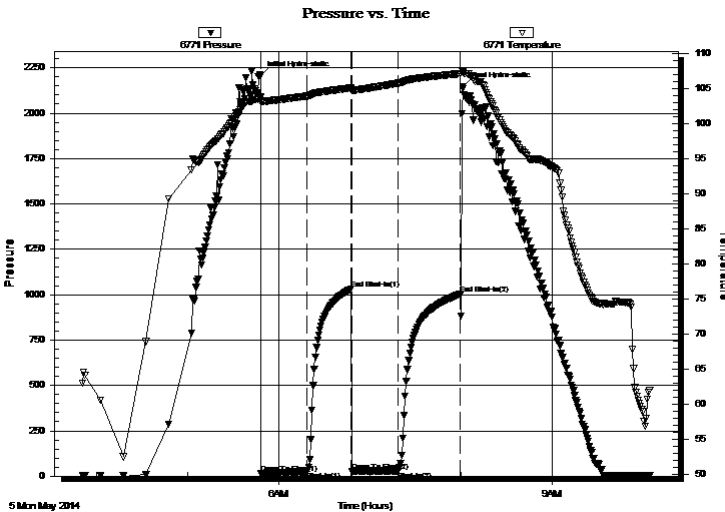
## Serial #: 6771

Inside

Press@RunDepth: 28.40 psig @ 4329.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.05.05 End Date: 2014.05.05 Last Calib.: 2014.05.05  
 Start Time: 03:50:36 End Time: 10:04:36 Time On Btm: 2014.05.05 @ 05:48:06  
 Time Off Btm: 2014.05.05 @ 08:01:21

TEST COMMENT: 1/4" blow died in 17 min.  
 No return  
 No blow  
 No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2205.43	103.77	Initial Hydro-static
1	15.90	103.16	Open To Flow (1)
31	24.25	103.94	Shut-In(1)
60	1031.58	105.08	End Shut-In(1)
60	27.77	104.81	Open To Flow (2)
91	28.40	105.75	Shut-In(2)
132	1002.86	107.14	End Shut-In(2)
134	2144.88	107.37	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	free oil (tar) 100%o	0.02
15.00	mud w/tar balls 100%m	0.07

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Eagle Creek Corp  
 8100 E 22nd St. North BLDG1500 Suite A  
 Wichita, KS 67226  
 ATTN: Gary Gensch

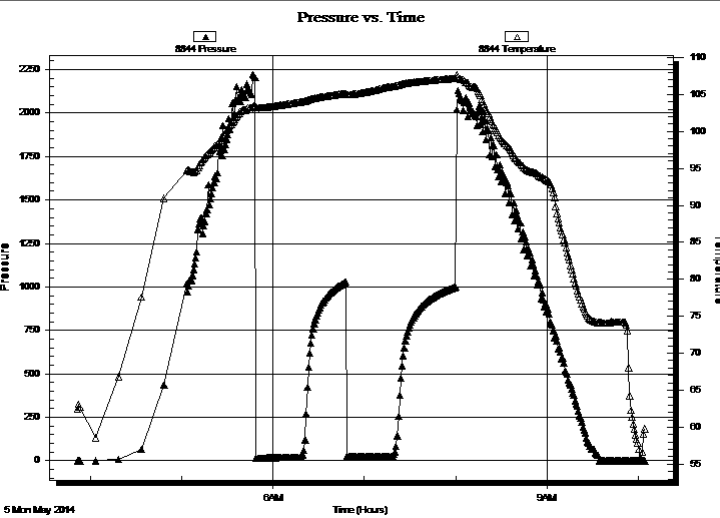
**19-17s-34w Scott, KS**  
**Barnhart #1-19**  
 Job Ticket: 56346 **DST#: 2**  
 Test Start: 2014.05.05 @ 03:50:36

## GENERAL INFORMATION:

Formation: <b>LKC lower J - upper</b>		Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)		Tester: Shane McBride
Time Tool Opened: 05:48:21		Unit No: 55
Time Test Ended: 10:04:36		
<b>Interval: 4328.00 ft (KB) To 4355.00 ft (KB) (TVD)</b>		Reference Elevations: 3144.00 ft (KB)
Total Depth: 4355.00 ft (KB) (TVD)		3136.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair		KB to GR/CF: 8.00 ft

<b>Serial #: 8844</b>	<b>Outside</b>				
Press@RunDepth: psig @	4329.00 ft (KB)	Capacity:	8000.00 psig		
Start Date: 2014.05.05	End Date: 2014.05.05	Last Calib.:	2014.05.05		
Start Time: 03:51:11	End Time: 10:04:41	Time On Btm:			
		Time Off Btm:			

**TEST COMMENT:** 1/4" blow died in 17 min.  
 No return  
 No blow  
 No return



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	free oil (tar) 100%o	0.02
15.00	mud w/tar balls 100%m	0.07

\* 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 Corp  
8100 E 22nd St. North BLDG1500 Suite A  
Wichita, KS 67226  
ATTN: Gary Gensch

**19-17s-34w Scott, KS**  
**Barnhart #1-19**  
Job Ticket: 56346 **DST#: 2**  
Test Start: 2014.05.05 @ 03:50:36

## Tool Information

Drill Pipe:	Length: 4288.00 ft	Diameter: 3.80 inches	Volume: 60.15 bbl	Tool Weight: 1500.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 60.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4328.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4309.00	
Shut In Tool	5.00			4314.00	
Hydraulic tool	5.00			4319.00	
Packer	5.00			4324.00	20.00 Bottom Of Top Packer
Packer	4.00			4328.00	
Stubb	1.00			4329.00	
Recorder	0.00	6771	Inside	4329.00	
Recorder	0.00	8844	Outside	4329.00	
Anchor	21.00			4350.00	
Bullnose	5.00			4355.00	27.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>47.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Eagle Creek Corp

**19-17s-34w Scott,KS**

8100 E 22nd St.North BLDG1500 Suite A  
Wichita, KS 67226

**Barnhart #1-19**

Job Ticket: 56346

**DST#: 2**

ATTN: Gary Gensch

Test Start: 2014.05.05 @ 03:50:36

## 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.13 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	free oil (tar) 100%o	0.025
15.00	mud w /tar balls 100%m	0.074

Total Length: 20.00 ft      Total Volume: 0.099 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

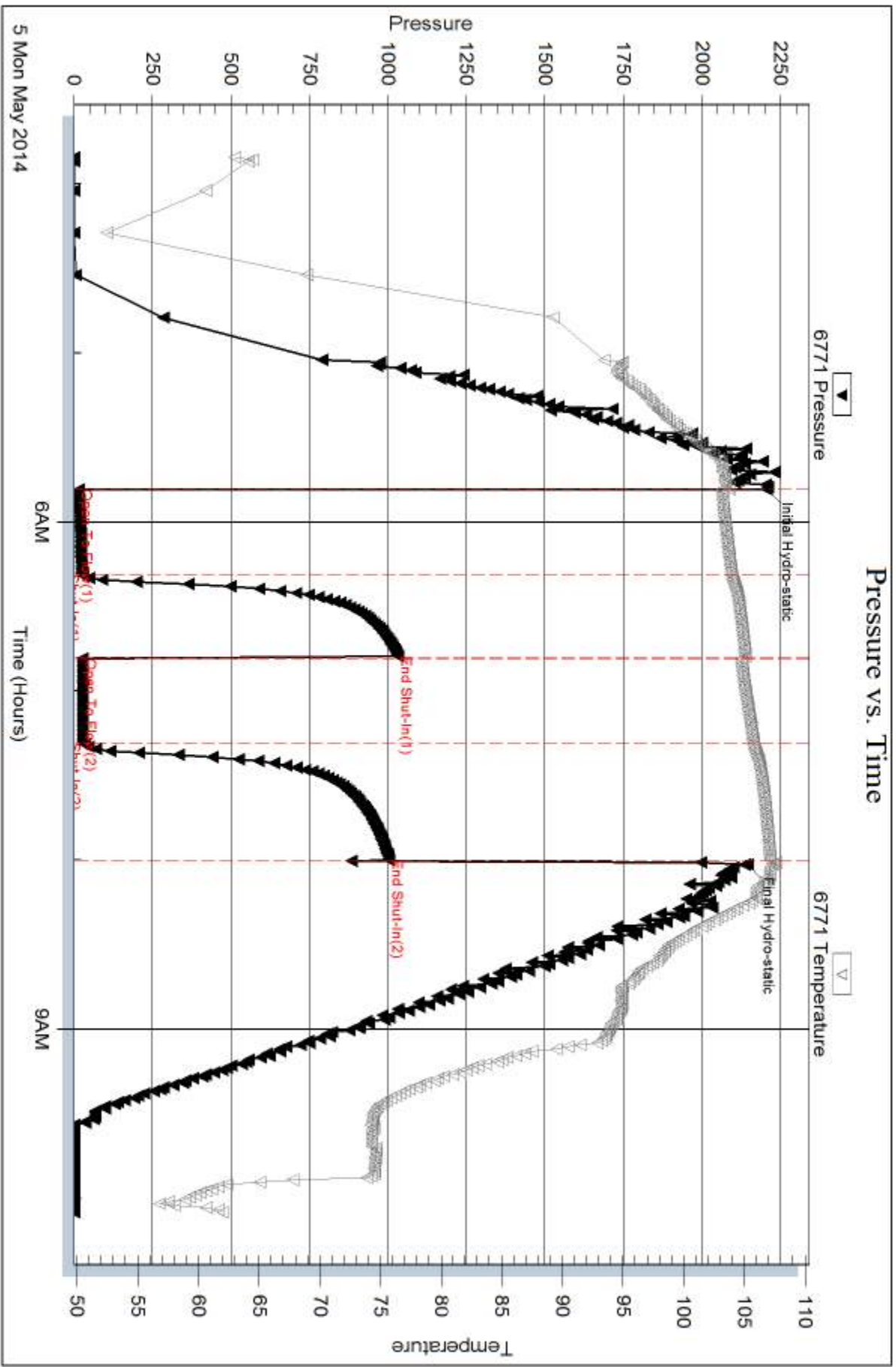
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



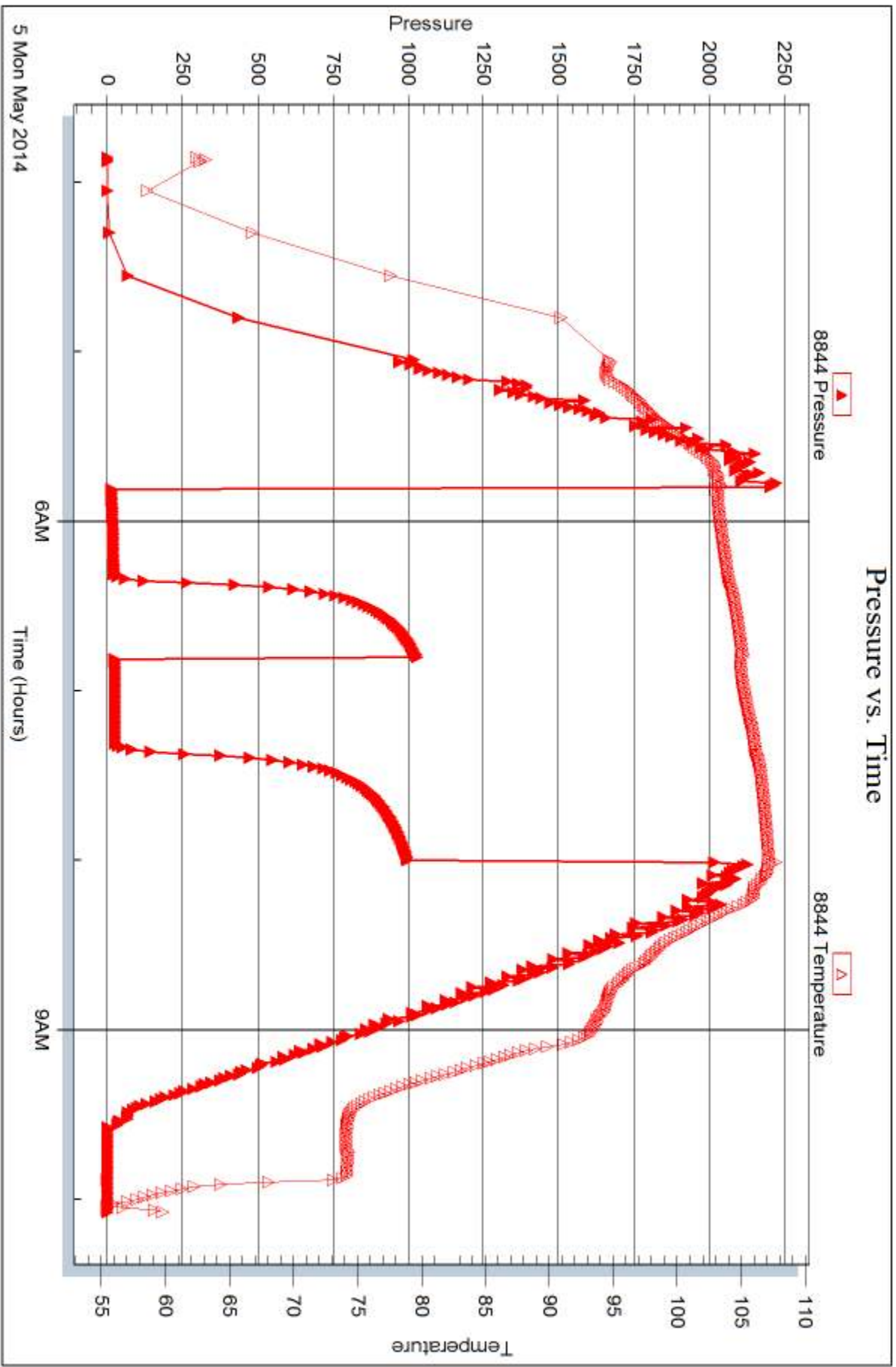


Serial #: 8844

Outside Eagle Creek Corp

Barnhart #1-19

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 56346

Printed: 2014.05.13 @ 09:36:43



## DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Corp**

8100 E 22nd St. North BLDG1500 Suite A  
Wichita, KS 67226

ATTN: Gary Gensch

### **Barnhart #1-19**

### **19-17s-34w Scott,KS**

Start Date: 2014.05.06 @ 05:02:44

End Date: 2014.05.06 @ 13:47:44

Job Ticket #: 56347                      DST #: 3

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

Printed: 2014.05.13 @ 09:36:19

Eagle Creek Corp  
19-17s-34w Scott,KS  
Barnhart #1-19  
DST # 3  
Marmaton A-B  
2014.05.06



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Eagle Creek Corp  
 8100 E 22nd St. North BLDG1500 Suite A  
 Wichita, KS 67226  
 ATTN: Gary Gensch

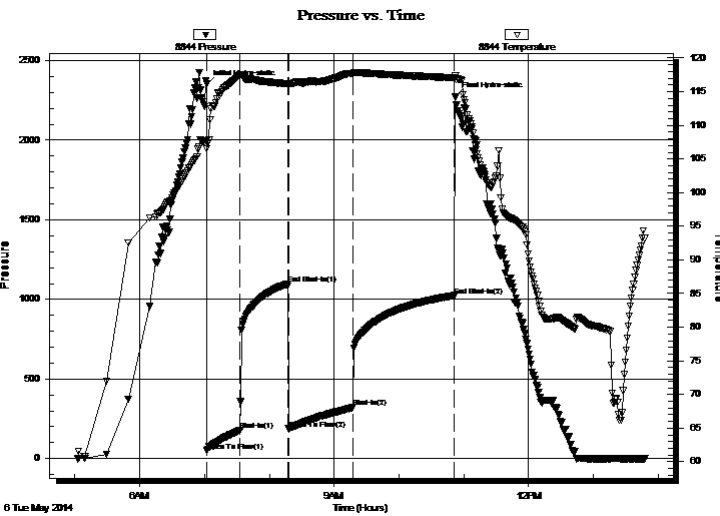
**19-17s-34w Scott, KS**  
**Barnhart #1-19**  
 Job Ticket: 56347 **DST#: 3**  
 Test Start: 2014.05.06 @ 05:02:44

## GENERAL INFORMATION:

Formation: **Marmaton A-B**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:02:14  
 Time Test Ended: 13:47:44  
 Interval: **4457.00 ft (KB) To 4514.00 ft (KB) (TVD)**  
 Total Depth: 4514.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Shane McBride  
 Unit No: 55  
 Reference Elevations: 3144.00 ft (KB)  
 3136.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8844 Outside**  
 Press@RunDepth: 322.23 psig @ 4458.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.05.06 End Date: 2014.05.06 Last Calib.: 2014.05.06  
 Start Time: 05:02:44 End Time: 13:47:44 Time On Btm: 2014.05.06 @ 07:01:59  
 Time Off Btm: 2014.05.06 @ 10:52:14

TEST COMMENT: B.O.B. in 12 min.  
 No return  
 B.O.B. in 18 min.  
 No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2351.82	107.74	Initial Hydro-static
1	48.08	106.50	Open To Flow (1)
31	176.26	117.42	Shut-In(1)
75	1098.29	116.16	End Shut-In(1)
76	186.79	115.95	Open To Flow (2)
136	322.23	117.69	Shut-In(2)
230	1024.29	117.08	End Shut-In(2)
231	2271.32	117.36	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
186.00	g & o c w 10g 10o 80w	2.34
124.00	g o & m c w 10g 15o 20m 55w	1.74
124.00	g o & w c m 10g 20o 20w 50m	1.74
124.00	s g o & w c m 5g 10o 10w 75m	1.74
83.00	s g o c m 5g 10o 85m	1.16
10.00	s g o 5g 95o	0.14

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Eagle Creek Corp  
8100 E 22nd St. North BLDG1500 Suite A  
Wichita, KS 67226  
ATTN: Gary Gensch

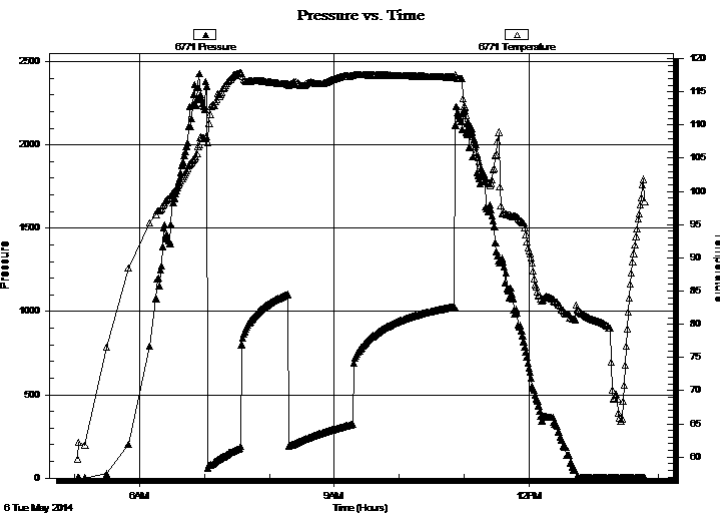
**19-17s-34w Scott, KS**  
**Barnhart #1-19**  
Job Ticket: 56347 **DST#: 3**  
Test Start: 2014.05.06 @ 05:02:44

## GENERAL INFORMATION:

Formation: **Marmaton A-B**  
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 07:02:14 Tester: Shane McBride  
 Time Test Ended: 13:47:44 Unit No: 55  
 Interval: **4457.00 ft (KB) To 4514.00 ft (KB) (TVD)** Reference Elevations: 3144.00 ft (KB)  
 Total Depth: 4514.00 ft (KB) (TVD) 3136.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 6771 Inside**  
 Press@RunDepth: psig @ 4458.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.05.06 End Date: 2014.05.06 Last Calib.: 2014.05.06  
 Start Time: 05:02:34 End Time: 13:47:34 Time On Btm:  
 Time Off Btm:

TEST COMMENT: B.O.B. in 12 min.  
 No return  
 B.O.B. in 18 min.  
 No return



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
186.00	g & o c w 10g 10o 80w	2.34
124.00	g o & m c w 10g 15o 20m 55w	1.74
124.00	g o & w c m 10g 20o 20w 50m	1.74
124.00	s g o & w c m 5g 10o 10w 75m	1.74
83.00	s g o c m 5g 10o 85m	1.16
10.00	s g o 5g 95o	0.14

\* 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 Corp  
8100 E 22nd St. North BLDG1500 Suite A  
Wichita, KS 67226  
ATTN: Gary Gensch

**19-17s-34w Scott, KS**  
**Barnhart #1-19**  
Job Ticket: 56347      **DST#: 3**  
Test Start: 2014.05.06 @ 05:02:44

**Tool Information**

Drill Pipe:	Length: 4438.00 ft	Diameter: 3.80 inches	Volume: 62.25 bbl	Tool Weight: 1500.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 62.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4457.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	77.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			4438.00	
Shut In Tool	5.00			4443.00	
Hydraulic tool	5.00			4448.00	
Packer	5.00			4453.00	20.00      Bottom Of Top Packer
Packer	4.00			4457.00	
Stubb	1.00			4458.00	
Recorder	0.00	6771	Inside	4458.00	
Recorder	0.00	8844	Outside	4458.00	
Anchor	5.00			4463.00	
Change Over Sub	1.00			4464.00	
Drill Pipe	31.00			4495.00	
Change Over Sub	1.00			4496.00	
Perforations	13.00			4509.00	
Bullnose	5.00			4514.00	57.00      Bottom Packers & Anchor

**Total Tool Length: 77.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Eagle Creek Corp  
8100 E 22nd St. North BLDG1500 Suite A  
Wichita, KS 67226  
ATTN: Gary Gensch

**19-17s-34w Scott, KS**  
**Barnhart #1-19**  
Job Ticket: 56347      **DST#: 3**  
Test Start: 2014.05.06 @ 05:02:44

### Mud and Cushion Information

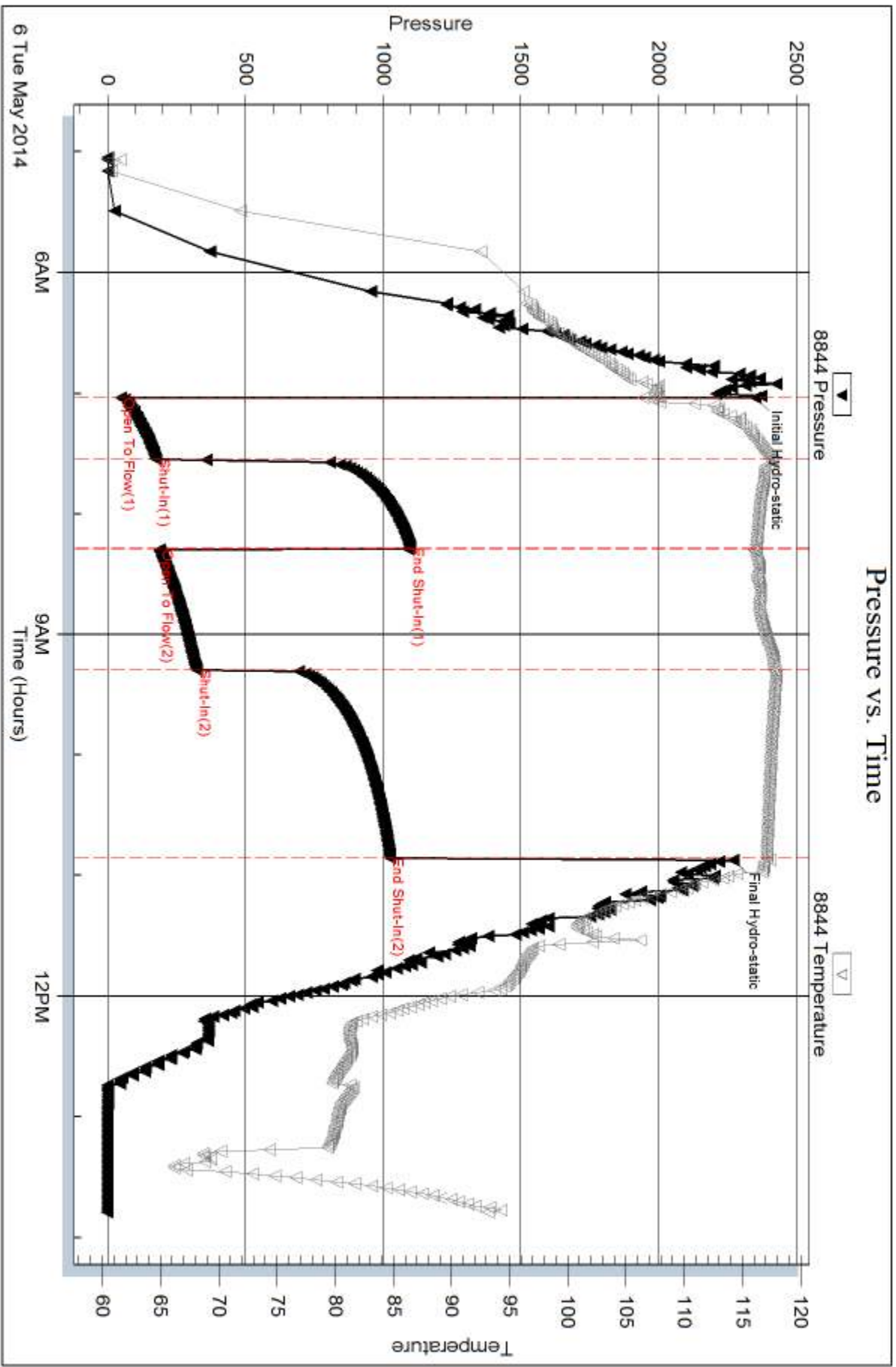
Mud Type: Gel Chem	Cushion Type:	Oil API: 30 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: 28500 ppm
Viscosity: 42.00 sec/qt	Cushion Volume: bbl	
Water Loss: 10.74 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 8000.00 ppm		
Filter Cake: 1.00 inches		

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	g & o c w 10g 10o 80w	2.336
124.00	g o & m c w 10g 15o 20m 55w	1.739
124.00	g o & w c m 10g 20o 20w 50m	1.739
124.00	s g o & w c m 5g 10o 10w 75m	1.739
83.00	s g o c m 5g 10o 85m	1.164
10.00	s g o 5g 95o	0.140
0.00	90' weak gas in pipe	0.000

Total Length: 651.00 ft      Total Volume: 8.857 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: rw .176 @ 97\*f = 28,500 chlor





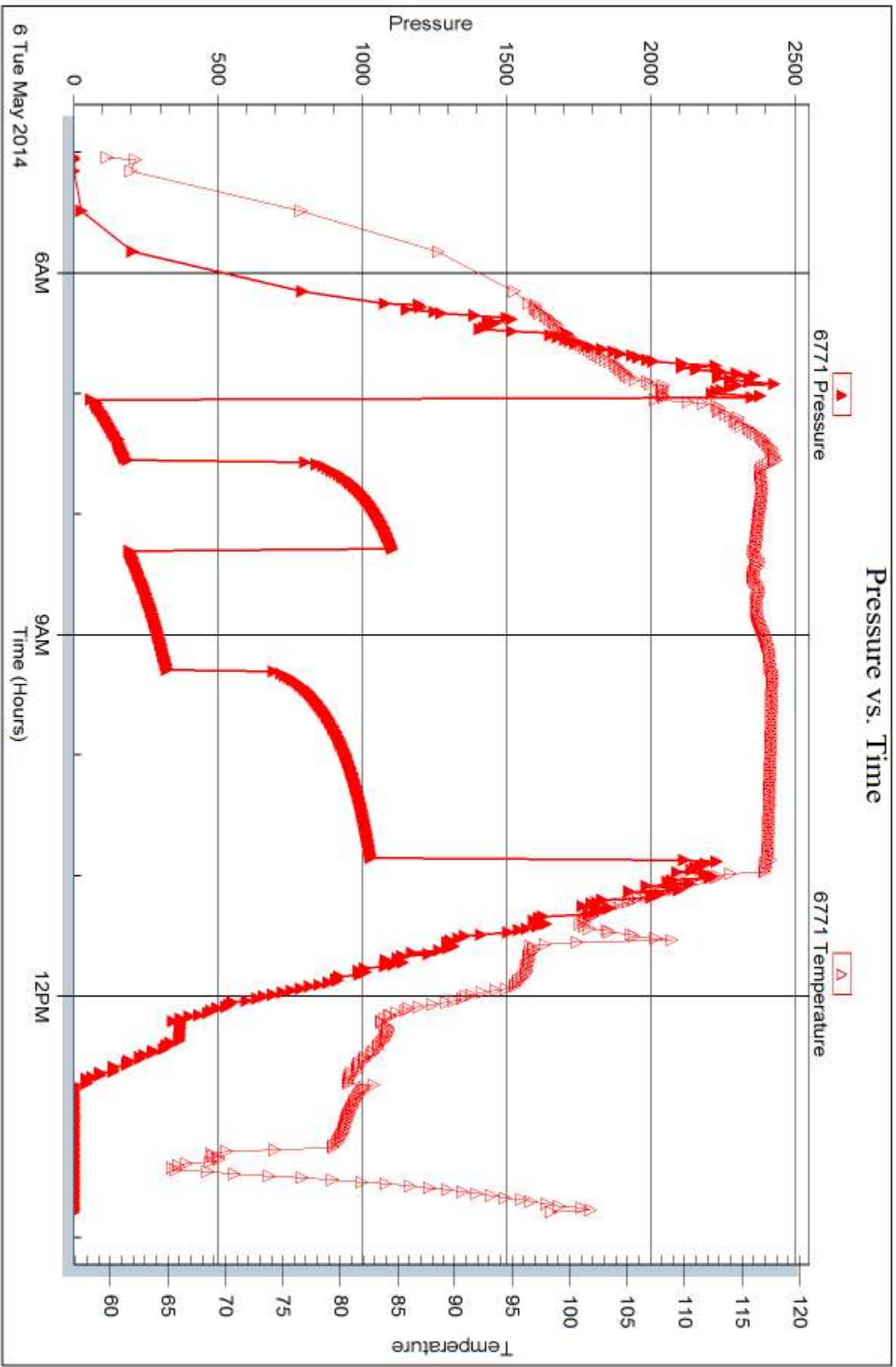
Serial #: 6771

Inside

Eagle Creek Corp

Barnhart #1-19

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 56347

Printed: 2014.05.13 @ 09:36:21



## DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Corp**

8100 E 22nd St. North BLDG1500 Suite A  
Wichita, KS 67226

ATTN: Gary Gensch

### **Barnhart #1-19**

#### **19-17s-34w Scott,KS**

Start Date: 2014.05.06 @ 22:00:23

End Date: 2014.05.07 @ 06:49:23

Job Ticket #: 56348                      DST #: 4

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

Printed: 2014.05.13 @ 09:35:57



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Eagle Creek Corp  
 8100 E 22nd St. North BLDG1500 Suite A  
 Wichita, KS 67226  
 ATTN: Gary Gensch

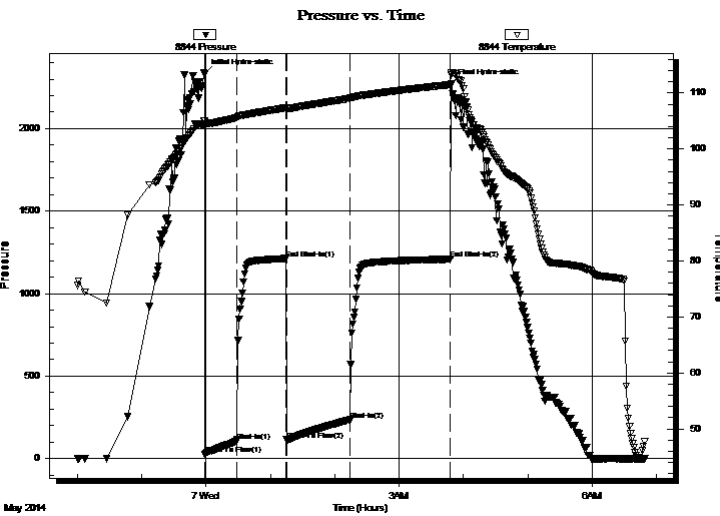
**19-17s-34w Scott, KS**  
**Barnhart #1-19**  
 Job Ticket: 56348 **DST#: 4**  
 Test Start: 2014.05.06 @ 22:00:23

## GENERAL INFORMATION:

Formation: **Marmaton C**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 23:59:08 Tester: Shane McBride  
 Time Test Ended: 06:49:23 Unit No: 55  
 Interval: **4515.00 ft (KB) To 4535.00 ft (KB) (TVD)** Reference Elevations: 3144.00 ft (KB)  
 Total Depth: 4535.00 ft (KB) (TVD) 3136.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 8844 Outside**  
 Press@RunDepth: 235.44 psig @ 4516.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.05.06 End Date: 2014.05.07 Last Calib.: 2014.05.07  
 Start Time: 22:00:23 End Time: 06:49:23 Time On Btm: 2014.05.06 @ 23:58:53  
 Time Off Btm: 2014.05.07 @ 03:48:38

**TEST COMMENT:** B.O.B. in 8 min.  
 Surface return in 10 min., died in 26 min.  
 B.O.B. in 20 min.  
 SSurface blow in 9 min. died in 52 min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2331.19	104.99	Initial Hydro-static
1	26.79	104.08	Open To Flow (1)
30	105.52	105.57	Shut-In(1)
76	1212.93	107.35	End Shut-In(1)
76	114.38	106.85	Open To Flow (2)
136	235.44	109.02	Shut-In(2)
229	1208.93	111.47	End Shut-In(2)
230	2273.24	113.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
31.00	g o c m 35g 10o 55m	0.16
682.00	c g o 35g 65o	9.57
0.00	155' gas in pipe	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 Corp  
 8100 E 22nd St. North BLDG1500 Suite A  
 Wichita, KS 67226  
 ATTN: Gary Gensch

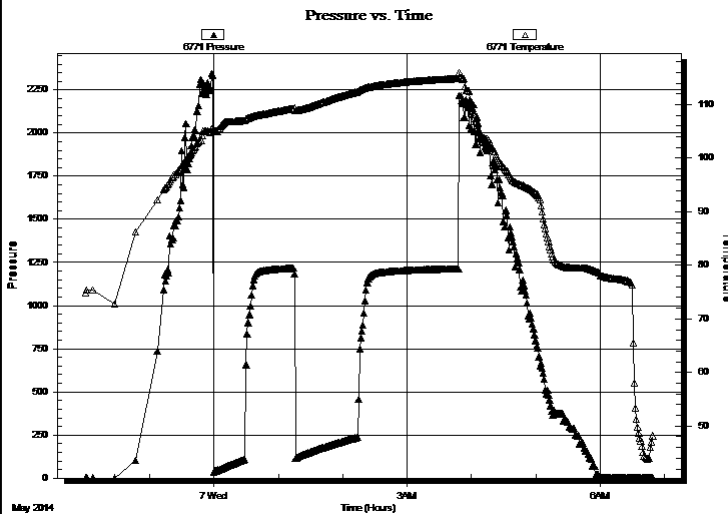
**19-17s-34w Scott, KS**  
**Barnhart #1-19**  
 Job Ticket: 56348 **DST#: 4**  
 Test Start: 2014.05.06 @ 22:00:23

## GENERAL INFORMATION:

Formation: **Marmaton C**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:59:08  
 Time Test Ended: 06:49:23  
 Interval: **4515.00 ft (KB) To 4535.00 ft (KB) (TVD)**  
 Total Depth: 4535.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Shane McBride  
 Unit No: 55  
 Reference Elevations: 3144.00 ft (KB)  
 3136.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6771 Inside**  
 Press@RunDepth: psig @ 4516.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.05.06 End Date: 2014.05.07 Last Calib.: 2014.05.07  
 Start Time: 22:00:16 End Time: 06:49:16 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** B.O.B. in 8 min.  
 Surface return in 10 min., died in 26 min.  
 B.O.B. in 20 min.  
 SSurface blow in 9 min. died in 52 min.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
31.00	g o c m 35g 10o 55m	0.16
682.00	c g o 35g 65o	9.57
0.00	155' gas in pipe	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 Corp  
8100 E 22nd St. North BLDG1500 Suite A  
Wichita, KS 67226  
ATTN: Gary Gensch

**19-17s-34w Scott, KS**  
**Barnhart #1-19**  
Job Ticket: 56348 **DST#: 4**  
Test Start: 2014.05.06 @ 22:00:23

## Tool Information

Drill Pipe:	Length: 4475.00 ft	Diameter: 3.80 inches	Volume: 62.77 bbl	Tool Weight: 1500.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 62.92 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4515.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4496.00	
Shut In Tool	5.00			4501.00	
Hydraulic tool	5.00			4506.00	
Packer	5.00			4511.00	20.00 Bottom Of Top Packer
Packer	4.00			4515.00	
Stubb	1.00			4516.00	
Recorder	0.00	6771	Inside	4516.00	
Recorder	0.00	8844	Outside	4516.00	
Anchor	14.00			4530.00	
Bullnose	5.00			4535.00	20.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>40.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Eagle Creek Corp  
8100 E 22nd St. North BLDG1500 Suite A  
Wichita, KS 67226  
ATTN: Gary Gensch

**19-17s-34w Scott, KS**  
**Barnhart #1-19**  
Job Ticket: 56348      **DST#: 4**  
Test Start: 2014.05.06 @ 22:00:23

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 23 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.13 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2300.00 ppm		
Filter Cake: 1.00 inches		

### Recovery Information

Recovery Table

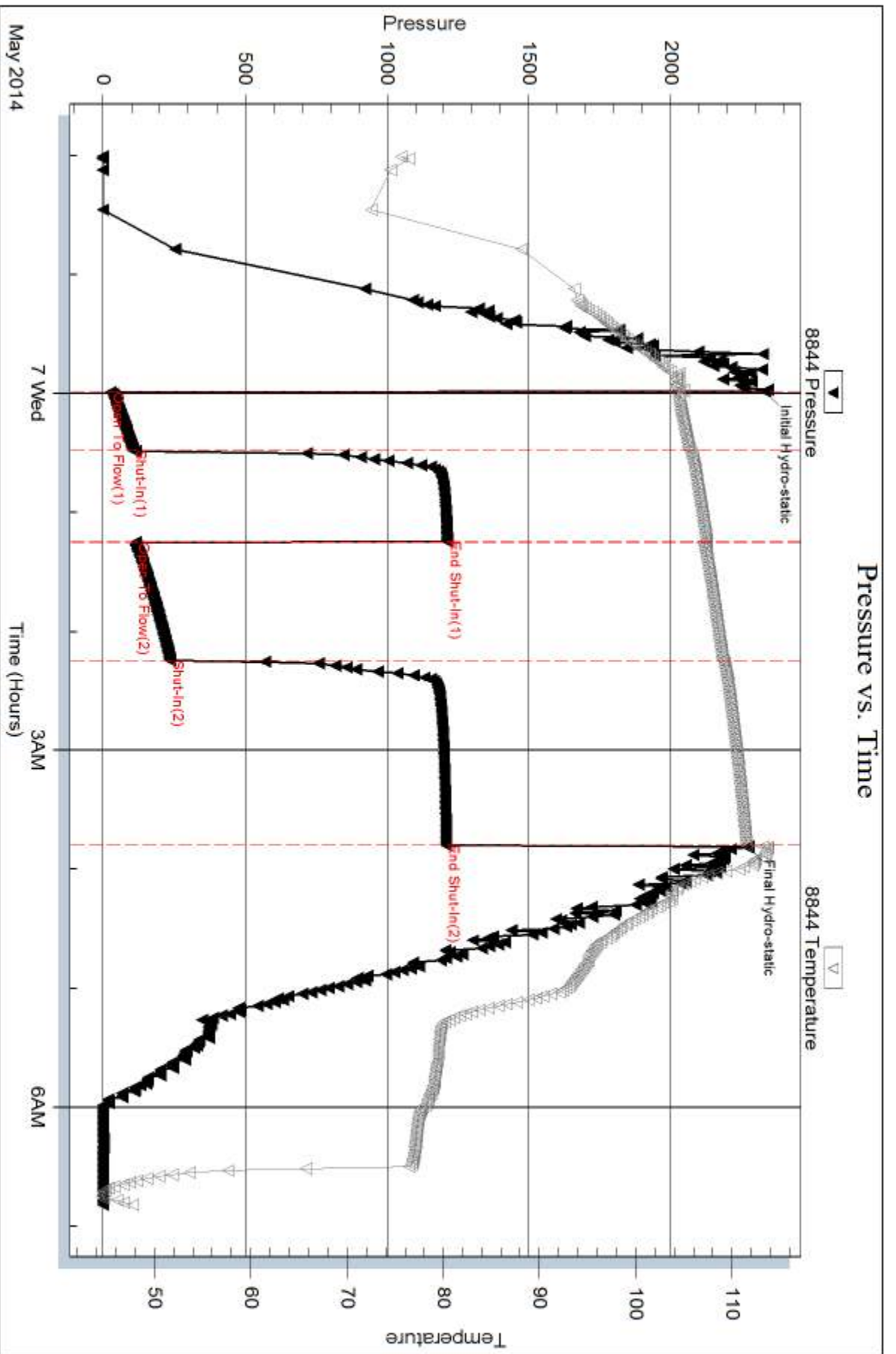
Length ft	Description	Volume bbl
31.00	g o c m 35g 10o 55m	0.162
682.00	c g o 35g 65o	9.567
0.00	155' gas in pipe	0.000

Total Length: 713.00 ft      Total Volume: 9.729 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:



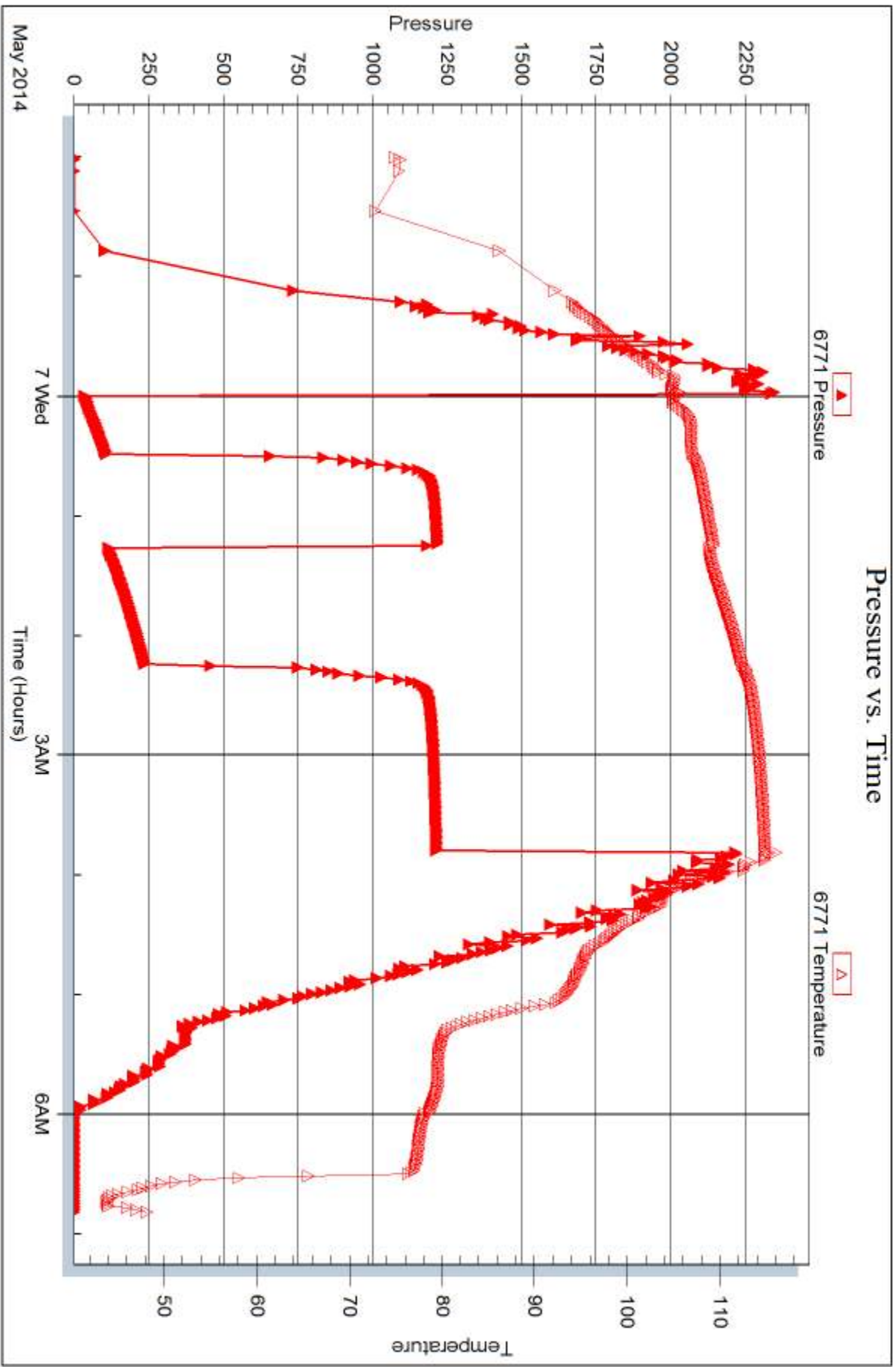
Serial #: 6771

Inside

Eagle Creek Corp

Barnhart #1-19

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 56348

Printed: 2014.05.13 @ 09:35:59





## DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Corp**

8100 E 22nd St. North BLDG1500 Suite A  
Wichita, KS 67226

ATTN: Gary Gensch

### **Barnhart #1-19**

#### **19-17s-34w Scott,KS**

Start Date: 2014.05.07 @ 20:41:00

End Date: 2014.05.08 @ 02:48:30

Job Ticket #: 56349                      DST #: 5

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

Printed: 2014.05.13 @ 09:33:28



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Eagle Creek Corp  
 8100 E 22nd St. North BLDG1500 Suite A  
 Wichita, KS 67226  
 ATTN: Gary Gensch

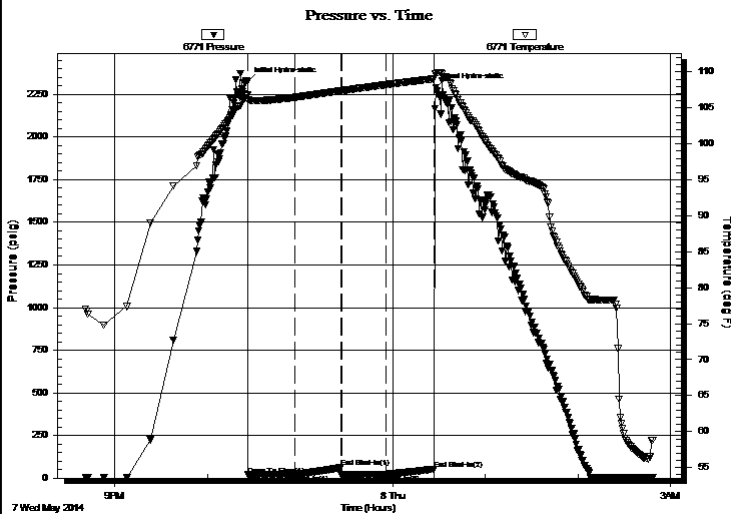
**19-17s-34w Scott, KS**  
**Barnhart #1-19**  
 Job Ticket: 56349 **DST#: 5**  
 Test Start: 2014.05.07 @ 20:41:00

## GENERAL INFORMATION:

Formation: **Pawnee**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:26:15  
 Time Test Ended: 02:48:30  
 Interval: **4568.00 ft (KB) To 4608.00 ft (KB) (TVD)**  
 Total Depth: 4608.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Shane McBride  
 Unit No: 55  
 Reference Elevations: 3144.00 ft (KB)  
 3136.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6771 Inside**  
 Press@RunDepth: 23.77 psig @ 4569.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.05.07 End Date: 2014.05.08 Last Calib.: 2014.05.08  
 Start Time: 20:41:00 End Time: 02:48:30 Time On Btm: 2014.05.07 @ 22:25:45  
 Time Off Btm: 2014.05.08 @ 00:28:00

TEST COMMENT: 1/4" blow died in 17 min.  
 No return  
 No blow  
 No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2325.41	106.78	Initial Hydro-static
1	19.61	106.15	Open To Flow (1)
31	21.74	106.47	Shut-In(1)
61	61.77	107.39	End Shut-In(1)
61	21.41	107.39	Open To Flow (2)
90	23.77	108.24	Shut-In(2)
121	53.55	109.05	End Shut-In(2)
123	2287.83	109.81	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	s o c m 5%o 95%m	0.01
0.00	show of oil on top 1"	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 Corp  
 8100 E 22nd St. North BLDG1500 Suite A  
 Wichita, KS 67226  
 ATTN: Gary Gensch

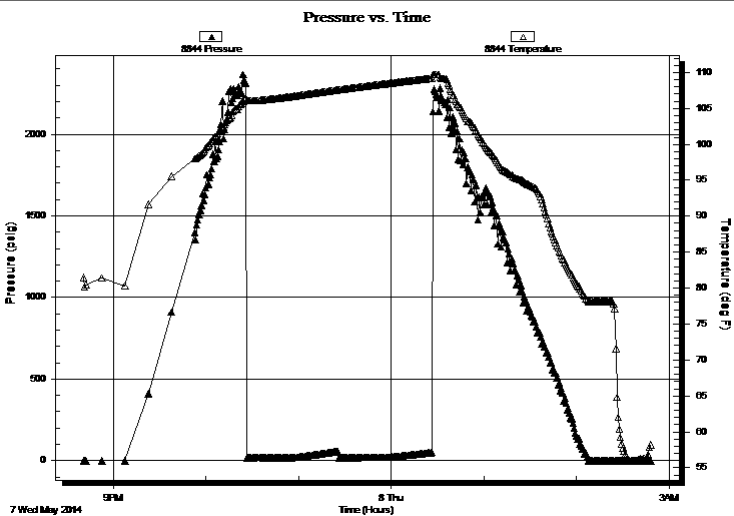
**19-17s-34w Scott, KS**  
**Barnhart #1-19**  
 Job Ticket: 56349 **DST#: 5**  
 Test Start: 2014.05.07 @ 20:41:00

### GENERAL INFORMATION:

Formation: **Pawnee**  
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 22:26:15 Tester: Shane McBride  
 Time Test Ended: 02:48:30 Unit No: 55  
 Interval: **4568.00 ft (KB) To 4608.00 ft (KB) (TVD)** Reference Elevations: 3144.00 ft (KB)  
 Total Depth: 4608.00 ft (KB) (TVD) 3136.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 8844 Outside**  
 Press@RunDepth: psig @ 4569.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.05.07 End Date: 2014.05.08 Last Calib.: 2014.05.08  
 Start Time: 20:40:48 End Time: 02:48:03 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 1/4" blow died in 17 min.  
 No return  
 No blow  
 No return



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
3.00	s o c m 5% 95% m	0.01
0.00	show of oil on top 1"	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 Corp  
8100 E 22nd St. North BLDG1500 Suite A  
Wichita, KS 67226  
ATTN: Gary Gensch

**19-17s-34w Scott, KS**  
**Barnhart #1-19**  
Job Ticket: 56349      **DST#: 5**  
Test Start: 2014.05.07 @ 20:41:00

**Tool Information**

Drill Pipe:	Length: 4538.00 ft	Diameter: 3.80 inches	Volume: 63.66 bbl	Tool Weight: 1500.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 63.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4568.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			4549.00	
Shut In Tool	5.00			4554.00	
Hydraulic tool	5.00			4559.00	
Packer	5.00			4564.00	20.00      Bottom Of Top Packer
Packer	4.00			4568.00	
Stubb	1.00			4569.00	
Recorder	0.00	6771	Inside	4569.00	
Recorder	0.00	8844	Outside	4569.00	
Anchor	34.00			4603.00	
Bullnose	5.00			4608.00	40.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>60.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Eagle Creek Corp

**19-17s-34w Scott,KS**

8100 E 22nd St. North BLDG1500 Suite A  
Wichita, KS 67226

**Barnhart #1-19**

Job Ticket: 56349

**DST#: 5**

ATTN: Gary Gensch

Test Start: 2014.05.07 @ 20:41:00

## 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.14 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
3.00	s o c m 5%o 95%m	0.015
0.00	show of oil on top 1"	0.000

Total Length: 3.00 ft      Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

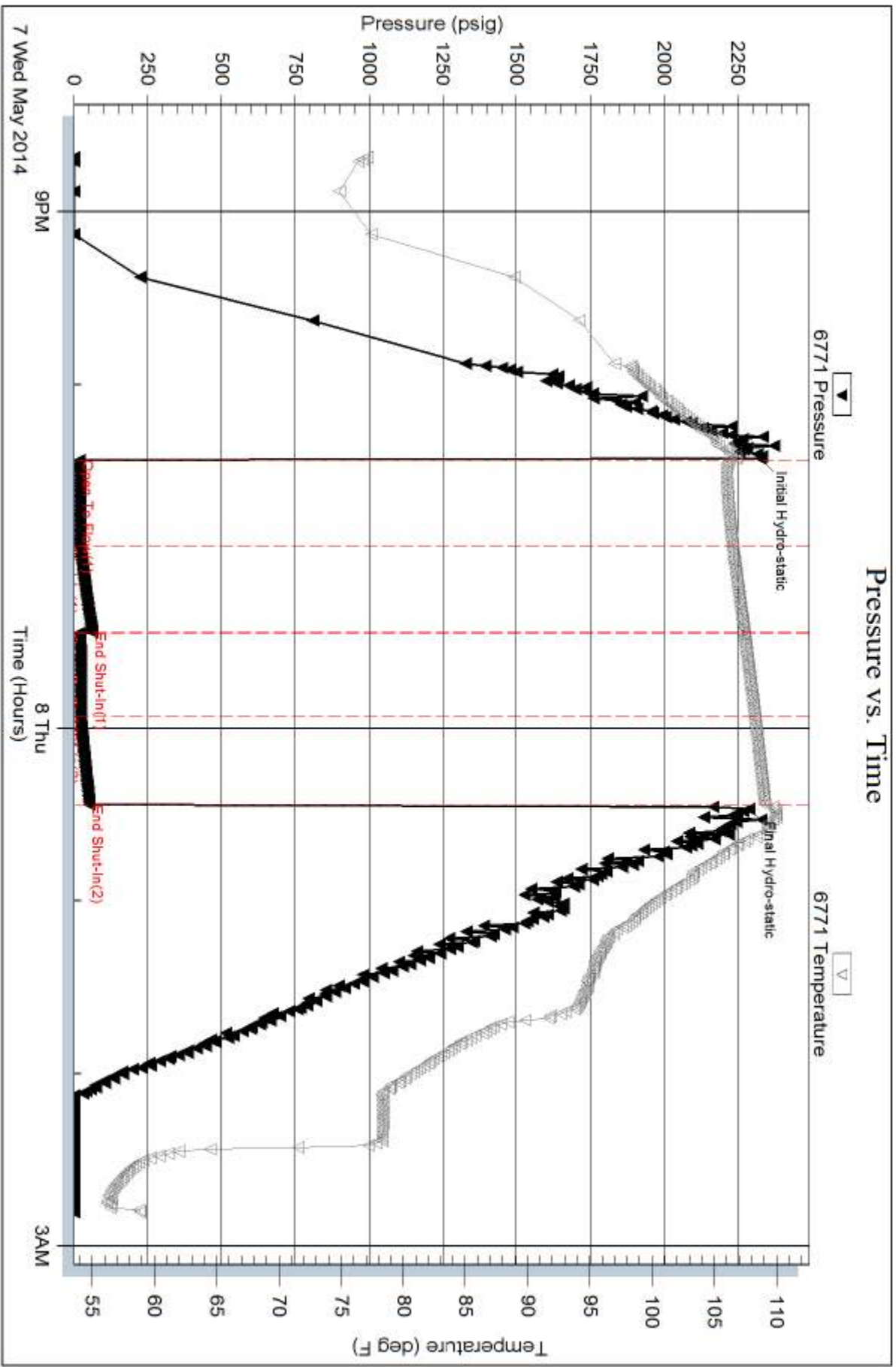
Serial #: 6771

Inside

Eagle Creek Corp

Barnhart #1-19

DST Test Number: 5

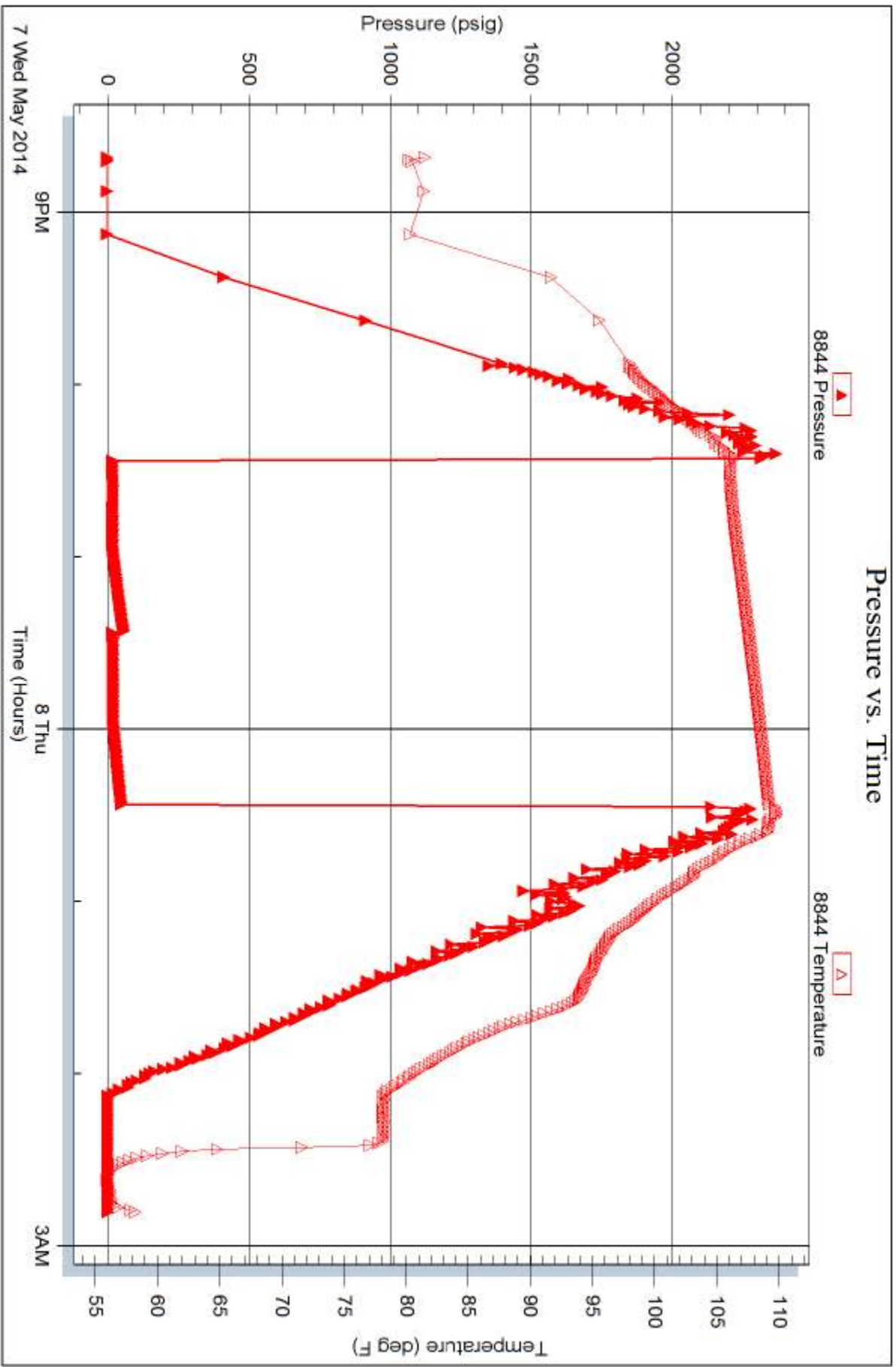


Serial #: 8844

Outside Eagle Creek Corp

Barnhart #1-19

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 56349

Printed: 2014.05.13 @ 09:33:30



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 56345

Well Name & No. Barnhart #1-19 Test No. #1 Date 5/4/14  
 Company Eagle Creek Corporation Elevation 3144 KB 3136 GL  
 Address 8100 E 22nd St North - BLDG 1500 Sweetwater, Wyo, KS 67226  
 Co. Rep / Geol. Dave Collewant / Gary Gensch Rig Val # 4  
 Location: Sec. 19 Twp. 17S Rge. 34W Co. Scott State Ks

Interval Tested 4272 4312 Zone Tested LKC "I"  
 Anchor Length 40 Drill Pipe Run 4254 Mud Wt. 9.3  
 Top Packer Depth 4267 Drill Collars Run 30' Vis 55  
 Bottom Packer Depth 4272 Wt. Pipe Run --- WL 7.2  
 Total Depth 4312 Chlorides 2300 ppm System LCM #3

Blow Description Surface blow died on 11 min  
No return  
No blow  
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>Mud w/oil scum</u>		<u>Scum</u>		<u>100%</u>
	<u>Show of free oil on top 1/2 in</u>				

Rec Total 5' BHT 107° Gravity --- API RW --- @ --- ° F Chlorides --- ppm

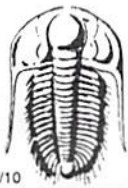
(A) Initial Hydrostatic 2143  Test 1250 T-On Location 10:15  
 (B) First Initial Flow 18  Jars --- T-Started 11:40  
 (C) First Final Flow 21  Safety Joint --- T-Open 13:58  
 (D) Initial Shut-In 919  Circ Sub N/C T-Pulled 15:58  
 (E) Second Initial Flow 23  Hourly Standby --- T-Out 17:50  
 (F) Second Final Flow 24  Mileage 43 RT 66.65  
 (G) Final Shut-In 811  Sampler ---  
 (H) Final Hydrostatic 2126  Straddle ---  Ruined Shale Packer ---  
 Shale Packer ---  Ruined Packer ---

Initial Open 30  Extra Packer ---  Extra Copies ---  
 Initial Shut-In 30  Extra Recorder --- Sub Total 0  
 Final Flow 30  Day Standby --- Total 1316.65  
 Final Shut-In 30  Accessibility 150.00 MP/DST Disc't ---  
 Sub Total 1316.65

Approved By Gary Gensch 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. 56346

4/10

Well Name & No. Barnhart #1-19 Test No. #2 Date 5/5/14  
 Company Eagle Creek Corporation Elevation 3144 KB 3136 GL  
 Address 8100 E 22<sup>nd</sup> St North BLDG-1300 Suite B Wichita, KS 67224  
 Co. Rep / Geo. Gary Gensel Rig Val #4  
 Location: Sec. 19 Twp. 17S Rge. 34W Co. Scott State KS

Interval Tested 4328 4355 Zone Tested Lower J - upper K  
 Anchor Length 27 Drill Pipe Run 4288 Mud Wt. 9.3  
 Top Packer Depth 4323 Drill Collars Run 30' Vis 55  
 Bottom Packer Depth 4328 Wt. Pipe Run — WL 7.2  
 Total Depth 4355 Chlorides 2300 ppm System LCM #3

Blow Description 1/4" in blow, dried in 17 min  
No return  
No blow  
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>Free Oil (Tar)</u>		<u>100%</u>		
<u>15'</u>	<u>mud w/ Tar balls</u>		<u>Spots</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

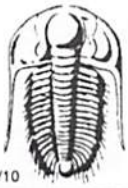
Rec Total 20' BHT 107° Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 2205  Test 1250 T-On Location 03:35  
 (B) First Initial Flow 15  Jars — T-Started 03:50  
 (C) First Final Flow 24  Safety Joint — T-Open 05:45  
 (D) Initial Shut-In 1031  Circ Sub N/C T-Pulled 07:45  
 (E) Second Initial Flow 27  Hourly Standby — T-Out 10:05  
 (F) Second Final Flow 28  Mileage 43 RT 66.65  
 (G) Final Shut-In 1002  Sampler —  
 (H) Final Hydrostatic 2144  Straddle —

Initial Open 30  Extra Packer —  Ruined Shale Packer —  
 Initial Shut-In 30  Extra Recorder —  Ruined Packer —  
 Final Flow 30  Day Standby — Sub Total 0  
 Final Shut-In 30  Accessibility \$ 150.00 Total 1316.65  
 Sub Total 1316.65 MP/DST Disc't —

Approved By Gary Gensel Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 56347

Well Name & No. Barnhart #1-19 Test No. #3 Date 3/6/14  
 Company Eagle Creek Corporation Elevation 3144 KB 3136 GL  
 Address 8100 E 22nd St North BLDG 1500 Suite A Wichita, Ks 67224  
 Co. Rep / Geo. GARY Gensch Rig Val #4  
 Location: Sec. 19 Twp. 17S Rge. 34W Co. Scott State Ks

Interval Tested 4457 4514 Zone Tested Marmaton A-B  
 Anchor Length 57 Drill Pipe Run 4438' Mud Wt. 9.5  
 Top Packer Depth 4452 Drill Collars Run 30' Vis 42  
 Bottom Packer Depth 4457 Wt. Pipe Run — WL 10.8  
 Total Depth 4514 Chlorides 8,000 ppm System LCM #1

Blow Description B.O.B. in 12 min | Rec: 186' 10 gas 10 oil 80 water mud  
No return | Rec: gas oil water mud  
B.O.B. in 18 min | (90' used GAS in pipe)  
No return

Rec	Feet of	%gas	%oil	%water	%mud
10	Scp	5	95		
83	sgocm	5	10		85
124	sgo3wcm	5	10	10	75
124	go3wcm	10	20	20	50
124	go3mcw	10	15	55	20

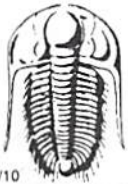
Rec Total 651 BHT 117 Gravity 30 API RW 176 @ 97 °F Chlorides 28,500 ppm

(A) Initial Hydrostatic 2351  Test 1250 T-On Location 04:35  
 (B) First Initial Flow 48  Jars \_\_\_\_\_ T-Started 05:02  
 (C) First Final Flow 176  Safety Joint \_\_\_\_\_ T-Open 07:02  
 (D) Initial Shut-In 1098  Circ Sub N/C T-Pulled 10:47  
 (E) Second Initial Flow 186  Hourly Standby \_\_\_\_\_ T-Out 13:58  
 (F) Second Final Flow 322  Mileage 43 RT 66.65 Comments \_\_\_\_\_  
 (G) Final Shut-In 1024  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2271  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_

Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 60  Day Standby \_\_\_\_\_ Total 1316.65  
 Final Shut-In 90  Accessibility \$150.00 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1316.65

Approved By Gary Gensch Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 56348

4/10

Well Name & No. Barnhart # 1-19 Test No. #4 Date 5/7/14  
 Company Eagle Creek Corporation Elevation 3144 KB 31310 GL  
 Address 8100 E 22<sup>nd</sup> St. North. BLDG 1500 Suite # Wichita, KS 67226  
 Co. Rep / Geo. Gary Gensch Rig Val #4  
 Location: Sec. 19 Twp. 17 Rge. 34w Co. Scott State Ks

Interval Tested 4515 4535 Zone Tested Marmaton C  
 Anchor Length 20 Drill Pipe Run 4475' Mud Wt. 9.3  
 Top Packer Depth 4510 Drill Collars Run 30' Vis 42  
 Bottom Packer Depth 4515 Wt. Pipe Run --- WL 10.8  
 Total Depth 4535 Chlorides 8,000 ppm System LCM #1

Blow Description B.O.B. in 8 min  
Surface return in 9 min. died in 20 min.  
B.O.B. in 20 min.

Surface return in 9 min died in 52 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>682'</u>	<u>090</u>	<u>35</u>	<u>65</u>		
<u>31'</u>	<u>gocm</u>	<u>35</u>	<u>10</u>		<u>55</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>(155 GAS in pipe?)</u>	%gas	%oil	%water	%mud
Rec	Feet of <u>No smell</u>	%gas	%oil	%water	%mud

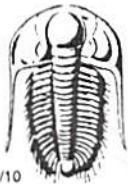
Rec Total 713' BHT 113° Gravity 23 API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic	<u>2331</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>21:15</u>
(B) First Initial Flow	<u>26</u>	<input type="checkbox"/> Jars		T-Started	<u>22:00</u>
(C) First Final Flow	<u>105</u>	<input type="checkbox"/> Safety Joint		T-Open	<u>23:57</u>
(D) Initial Shut-In	<u>1212</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>03:42</u>
(E) Second Initial Flow	<u>114</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>@ 06:55</u>
(F) Second Final Flow	<u>235</u>	<input checked="" type="checkbox"/> Mileage	<u>43RT</u> 66.65	Comments	
(G) Final Shut-In	<u>1208</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2273</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>45</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	<u>100</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>0</u>
Final Shut-In	<u>90</u>	<input type="checkbox"/> Day Standby		Total	<u>1316.65</u>
		<input checked="" type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1316.65</u>		

Approved By Gary Gensch Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 56349

Well Name & No. Barnhart #1-19 Test No. #5 Date 5/8/14  
 Company Eagle Creek Corporation Elevation 3144 KB 3136 GL  
 Address 8100 E 22nd St. North BLDG 1500 Suite A Wichita, KS 67226  
 Co. Rep / Geo. Gary Gensch Rig Val #4  
 Location: Sec. 19 Twp. 17S Rge. 34W Co. Scott State Ks

Interval Tested 4568 4608 Zone Tested Paucal  
 Anchor Length 40 Drill Pipe Run 4538 Mud Wt. 9.3  
 Top Packer Depth 4563 Drill Collars Run 30' Vis 65  
 Bottom Packer Depth 4568 Wt. Pipe Run --- WL 10.0  
 Total Depth 4608 Chlorides 9000 ppm System LCM #1

Blow Description 1/4" blow died in 17 min.  
No return  
No blow  
No return

Rec	Feet of	%gas	%oil	%water	%mud
3'	50cm	5		95	
	show FOI on top 1"				

Rec Total 3' BHT 110° Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic	<u>2325</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>20:10</u>
(B) First Initial Flow	<u>19</u>	<input type="checkbox"/> Jars		T-Started	<u>20:40</u>
(C) First Final Flow	<u>21</u>	<input type="checkbox"/> Safety Joint		T-Open	<u>22:13</u>
(D) Initial Shut-In	<u>61</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/E</u>	T-Pulled	<u>00:15</u>
(E) Second Initial Flow	<u>21</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>02:45</u>
(F) Second Final Flow	<u>23</u>	<input checked="" type="checkbox"/> Mileage	<u>43 RT 133.30</u>	Comments	<u>Released &amp; picked up Tools @ 01:15 5/9/14</u>
(G) Final Shut-In	<u>53</u>	<input type="checkbox"/> Sampler		<input type="checkbox"/> Ruined Shale Packer	
(H) Final Hydrostatic	<u>2287</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>30</u>	<input type="checkbox"/> Extra Packer		Sub Total	<u>0</u>
Final Flow	<u>30</u>	<input type="checkbox"/> Extra Recorder		Total	<u>1383.30</u>
Final Shut-In	<u>30</u>	<input type="checkbox"/> Day Standby		MP/DST Disc't	
		<input checked="" type="checkbox"/> Accessibility			
		Sub Total	<u>1383.30</u>		

Approved By Gary Gensch Our Representative [Signature]

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**CONSOLIDATED**  
Oil Well Services, LLC

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

TICKET NUMBER 46881

LOCATION Oakley, KS

FOREMAN Miles Sherrill

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

Fuzzy McCallister  
KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-10-14	27710	Barnhart #1-19	19	175	34W	Scott
CUSTOMER			TRUCK #			
MAILING ADDRESS			DRIVER			
CITY			TRUCK #			
STATE			DRIVER			
ZIP CODE			TRUCK #			
			DRIVER			

JOB TYPE 2 Stage HOLE SIZE 7 7/8" HOLE DEPTH 49 CASING SIZE & WEIGHT 5 1/2" 15.5 #  
 CASING DEPTH 49.82' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER Durol @ 2402'  
 SLURRY WEIGHT 13.8/12.4 SLURRY VOL 1.42/1.9 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 10.57'  
 DISPLACEMENT 120/158 DISPLACEMENT PSI 800/500 MIX PSI 1400/1400 RATE \_\_\_\_\_

REMARKS: Safety meeting and rig up on Val Drilling Rig #4 fluid equipment  
Centralizers on 500' 1.4, 210, 13, 15, 58, 60 Baskets on 500' 60 & 61 Durol on top  
of Int # 61 @ 2402' Circulate casing thr pump mud flush mix 1000 SKS down with 5'  
Wol seal down casing shut down cleared pump & lines released plug displaced 60 bbls water  
60 bbls mud with 800 PSI bit plug landed & hold @ 1400 PSI; open Durol with 900 PSI; circulate  
casing thr. Pump 5 bbls water mix 375 SKS down casing column 2 89 gal 2 1/2 hrs seal  
shut down cleared pump & lines released plug displaced 58 bbls water with 800 PSI;  
bit plug landed tool shut @ 1400 PSI; Cement did circulate 35 bbls top it.

305 SKS R/H 205 SKS M/H Thanks Miles & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3175.00	3175.00
5406	45	MILEAGE	5.25	236.25
5407A	26 Tons	Top Mitpage delivery	1.75	2077.50
1107	106 #	Flaseal	2.97	314.82
110A	825 #	Wolseal	1.56	462.00
1126	1105 SKS	Durol	23.70	3910.50
1131	425 SHS	60/40 pap	15.86	6740.50
1145	500 gal	Mud flush	1.00	500.00
4104	2	5 1/2" Baskets	290.00	580.00
4130	8	5 1/2" Centralizers	61.00	488.00
4159	1	5 1/2" AFB float shoe	433.75	433.75
4283	1	5 1/2" Durol / latch down ASSY	4042.50	4042.50
1118B	2924 #	Bentonite	127	789.48
			Subtotal	23720.30
			Loss 1600	2372.08
			Subtotal	21348.22
			SALES TAX	
			ESTIMATED	
			TOTAL	

Ravin 3737

AUTHORIZATION Bill Sherrill TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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 this for

