

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](mailto: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) (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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PRESSURE PUMPING

620-431-9210 or 800-467-8676

0007  
8515

TICKET NUMBER 53568  
LOCATION Ogkleg Ks  
FOREMAN Jerry

LD TICKET & TREATMENT REPORT

CEMENT

Invoice # 810792 KS  
Walt Dinkel

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-18-17	2776	Johnson Rep. 1-24	24	20 S	35 W	Wichita
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Eagle Creek			753	Travis W		
MAILING ADDRESS			460	Walt Dinkel		
8100 E. 22nd Street, N. Bldg. 1500A			772-7127	Seth O		
CITY			639			
Wichita						
STATE	ZIP CODE					
KS	67226-2315					

JOB TYPE 2-Stage HOLE SIZE 7 7/8 HOLE DEPTH 4702 CASING SIZE & WEIGHT 5 1/2 15.5#  
 CASING DEPTH 4698 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER DVE 2284  
 SLURRY WEIGHT 14.2/12.5 SLURRY VOL 1.42/1.89 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 40  
 DISPLACEMENT 110/59 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Softener in rig up on WW20 run flat egg cont on 3, 4 1/2, 6, 8, 56  
basket on 57 DV tool on top 57 set @ 2284 run casing to bottom & circulate 45 min  
pump 5 bbl H<sub>2</sub>O, 500 gal mud flush, 5 bbl H<sub>2</sub>O mix 125 sks thixoblend III shut down  
release plug clean pump lines & displace with 60 bbl H<sub>2</sub>O and 50 bbl mud 110 total final 1 ft  
800# plug landed @ 1700# released back & float held open tool & circulate 1 hr  
mix 425 sks lite blend VII 1/4# floeal shut down release plug clean pump & lines displace  
with 54 1/2 bbl fresh water final 1 ft 800# plug landed and DV tool closed @ 1700# found  
Cement in cellar after releasing pressure

Thank you Jerry

30 sks Rat hole

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0453	1	PUMP CHARGE	2800.00	2800.00
CE0002	45	MILEAGE	7.15	321.75
CE0710	25.47	ton mileage delivery	1.75	2005.76
CC5862	125 SKS	thixoblend III	26.00	3250.00
CC6077	625#	Kal Seal	.50	312.50
CC5831	455 SKS	lite blend VII	17.50	7962.50
CC6075	114 #	floeal	3.00	342.00
CC6125	500 gal	mud flush	.65	325.00
CP8485	1	5 1/2 AFU float shoe	585.00	585.00
CP8254	1	5 1/2 latchdown assy	400.00	400.00
CP8554	5	5 1/2 centralizer	81.00	405.00
CP8629	1	5 1/2 basket	385.00	385.00
CP8801	1	5 1/2 DV Tool	5970.00	5970.00
			Subtotal	25064.51
			-10%	10025.80
			Subtotal	15038.71
			SALES TAX	1016.78
			ESTIMATED TOTAL	16055.49

AUTHORIZATION Bill TITLE Operator 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 form.



PRESSURE PUMPING

8540  
8436

TICKET NUMBER 53546

LOCATION Oakley, KS

FOREMAN Walt Dunkel

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

ELD TICKET & TREATMENT REPORT

CEMENT

Invoice # 810711

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
7-10-17	2776	Johnson-Rapier 1-24	24	20 <sup>s</sup>	35 <sup>w</sup>	Wichita	
CUSTOMER Fagle Creek Corp		Scott City, Mo to C-L CROSS 135 to RAC 1/2 W-115		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS 8100 E. 22nd St., N. Bldg. 1500-A				753	miles shaw		
CITY Wichita		STATE KS	ZIP CODE 67226-2315	460	Seth Odel		

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 220' CASING SIZE & WEIGHT 85/8-23#  
 CASING DEPTH 220' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 15.2 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 15'-20"  
 DISPLACEMENT 12 3/4 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4 BPM

REMARKS: Safety Meeting, Rig up on WW #10, Circ on Bottom.  
MIX 16.5 SKS COM, 3% CC-2% Gel, Displace 12 3/4 BBL, H<sub>2</sub>O, Shut in

Thank You  
Walt + Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
C00471		PUMP CHARGE	1,150.00	1,150.00
C00002	4.5	MILEAGE	71.5	321.75
C00711	7.76	Ton Mileage Delivery	1.75	660.00
CC5871	165 SKS	Surface Blend II	23.00	3,795.00
			Subtotal	5,926.75
			less 40% discount	2,370.70
			Subtotal	3,556.05
			SALES TAX	193.55
			ESTIMATED TOTAL	3749.60

AUTHORIZATION [Signature] 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 form



## DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Corporation**

8100 E 22nd St N  
Bldg 500 Suite A  
Wichita, KS 67226

ATTN: Rocky Milford

### **Johnson-Rapier #1-24**

### **24 20s 35w Wichita,KS**

Start Date: 2017.07.16 @ 14:40:00

End Date: 2017.07.16 @ 23:05:30

Job Ticket #: 64207                      DST #: 1

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

Printed: 2017.07.17 @ 15:37:12



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Eagle Creek Corporation  
8100 E 22nd St N  
Bldg 500 Suite A  
Wichita, KS 67226  
ATTN: Rocky Milford

**24 20s 35w Wichita, KS**

**Johnson-Rapier #1-24**

Job Ticket: 64207

**DST#: 1**

Test Start: 2017.07.16 @ 14:40:00

## GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:38:30

Time Test Ended: 23:05:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

**Interval: 4575.00 ft (KB) To 4603.00 ft (KB) (TVD)**

Reference Elevations: 3146.00 ft (KB)

Total Depth: 4603.00 ft (KB) (TVD)

3141.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8845 Outside**

Press@RunDepth: 125.77 psig @ 4576.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.07.16

End Date:

2017.07.16

Last Calib.:

2017.07.16

Start Time: 14:40:05

End Time:

23:05:29

Time On Btm:

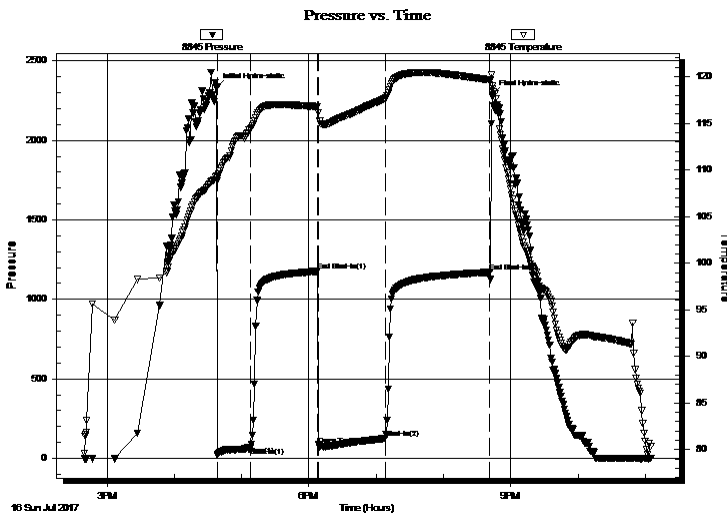
2017.07.16 @ 16:38:00

Time Off Btm:

2017.07.16 @ 20:43:30

**TEST COMMENT:** IF: BOB @ 9 1/2 min.  
IS: 1/2" return, receded to surface.  
FF: BOB @ 5 min.  
FS: BOB @ 24 min, receded to 8".

## PRESSURE SUMMARY



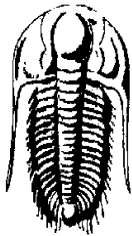
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2333.47	109.32	Initial Hydro-static
1	21.15	108.79	Open To Flow (1)
30	67.42	114.45	Shut-In(1)
90	1176.58	116.79	End Shut-In(1)
91	84.88	116.17	Open To Flow (2)
151	125.77	117.66	Shut-In(2)
244	1169.99	119.64	End Shut-In(2)
246	2284.50	118.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
210.00	gmco 40g 25m 35o	1.86
120.00	go 20g 80o	1.68
0.00	1180 GIP	0.00

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Eagle Creek Corporation

24 20s 35w Wichita, KS

8100 E 22nd St N  
Bldg 500 Suite A  
Wichita, KS 67226  
ATTN: Rocky Milford

**Johnson-Rapier #1-24**

Job Ticket: 64207

**DST#: 1**

Test Start: 2017.07.16 @ 14:40:00

### GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:38:30

Time Test Ended: 23:05:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

**Interval: 4575.00 ft (KB) To 4603.00 ft (KB) (TVD)**

Total Depth: 4603.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3146.00 ft (KB)

3141.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8365**

Inside

Press@RunDepth: psig @ 4576.00 ft (KB)

Start Date: 2017.07.16

End Date: 2017.07.16

Capacity: 8000.00 psig

Last Calib.: 2017.07.16

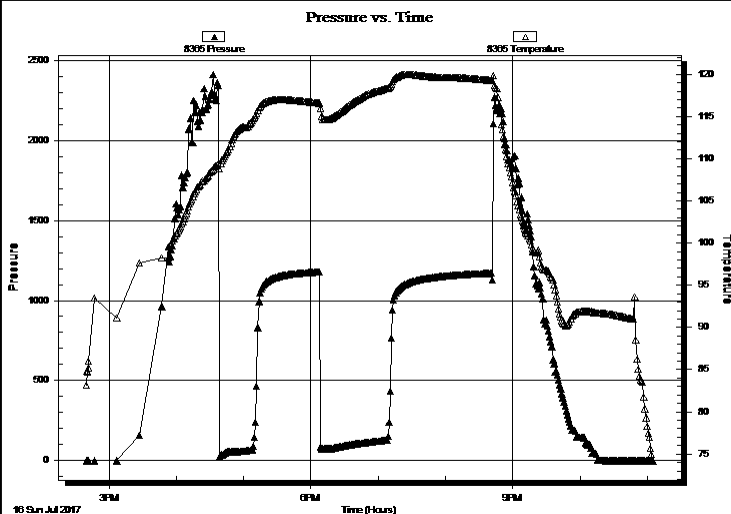
Start Time: 14:40:05

End Time: 23:05:29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB @ 9 1/2 min.  
IS: 1/2" return, receded to surface.  
FF: BOB @ 5 min.  
FS: BOB @ 24 min, receded to 8".



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
210.00	gmco 40g 25m 35o	1.86
120.00	go 20g 80o	1.68
0.00	1180 GIP	0.00

### Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Eagle Creek Corporation

**24 20s 35w Wichita, KS**

8100 E 22nd St N  
Bldg 500 Suite A  
Wichita, KS 67226  
ATTN: Rocky Milford

**Johnson-Rapier #1-24**

Job Ticket: 64207

**DST#: 1**

Test Start: 2017.07.16 @ 14:40:00

## Tool Information

Drill Pipe:	Length: 4450.00 ft	Diameter: 3.80 inches	Volume: 62.42 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 63.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4575.00 ft			Final 68000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4549.00	
Shut In Tool	5.00			4554.00	
Hydraulic tool	5.00			4559.00	
Jars	5.00			4564.00	
Safety Joint	2.00			4566.00	
Packer	5.00			4571.00	27.00 Bottom Of Top Packer
Packer	4.00			4575.00	
Stubb	1.00			4576.00	
Recorder	0.00	8365	Inside	4576.00	
Recorder	0.00	8845	Outside	4576.00	
Perforations	24.00			4600.00	
Bullnose	3.00			4603.00	28.00 Bottom Packers & Anchor

**Total Tool Length: 55.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Eagle Creek Corporation

**24 20s 35w Wichita, KS**

8100 E 22nd St N  
Bldg 500 Suite A  
Wichita, KS 67226  
ATTN: Rocky Milford

**Johnson-Rapier #1-24**

Job Ticket: 64207

**DST#: 1**

Test Start: 2017.07.16 @ 14:40:00

## 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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	gmco 40g 25m 35o	1.862
120.00	go 20g 80o	1.683
0.00	1180 GIP	0.000

Total Length: 330.00 ft

Total Volume: 3.545 bbl

Num Fluid Samples: 0

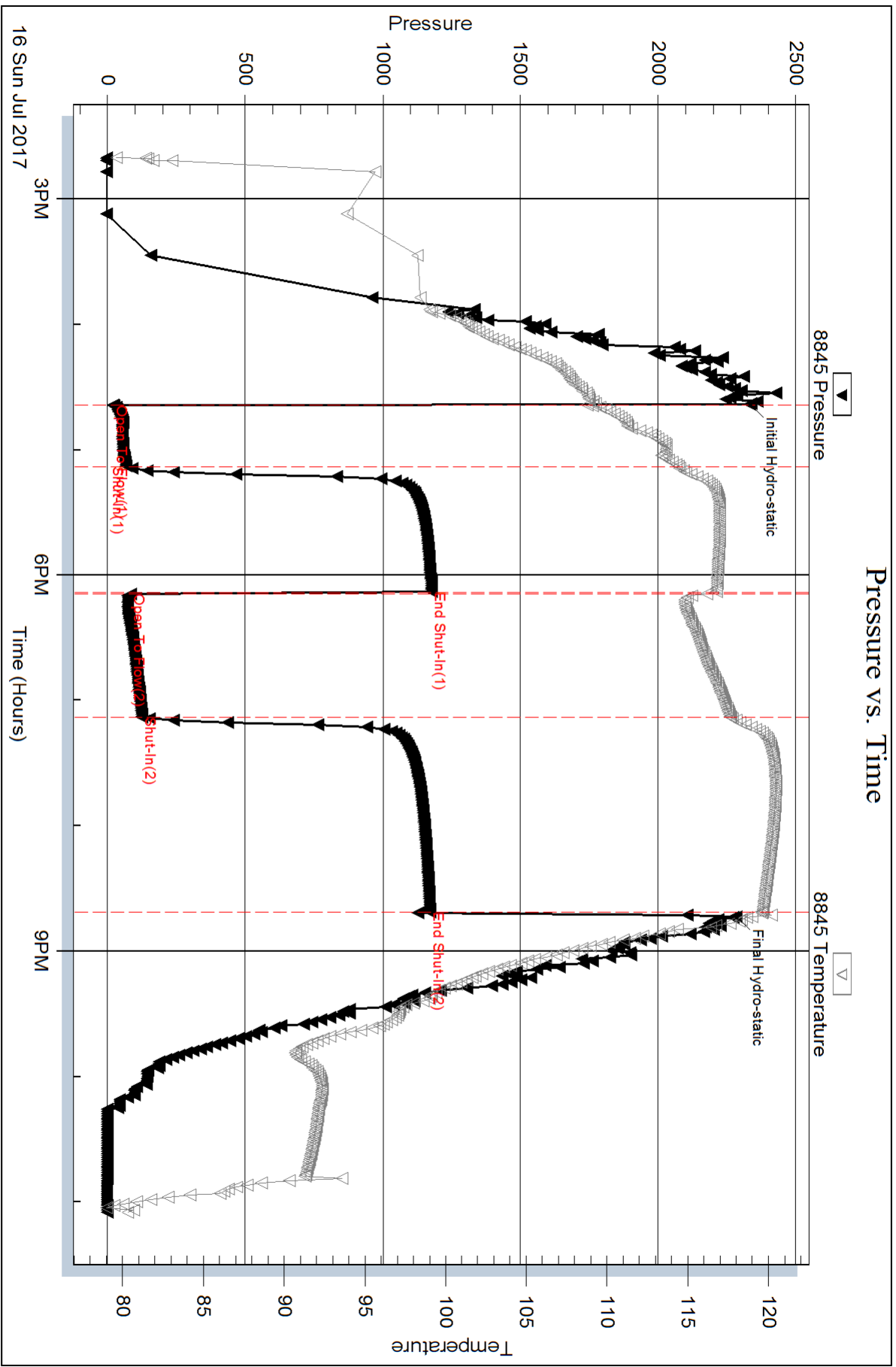
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



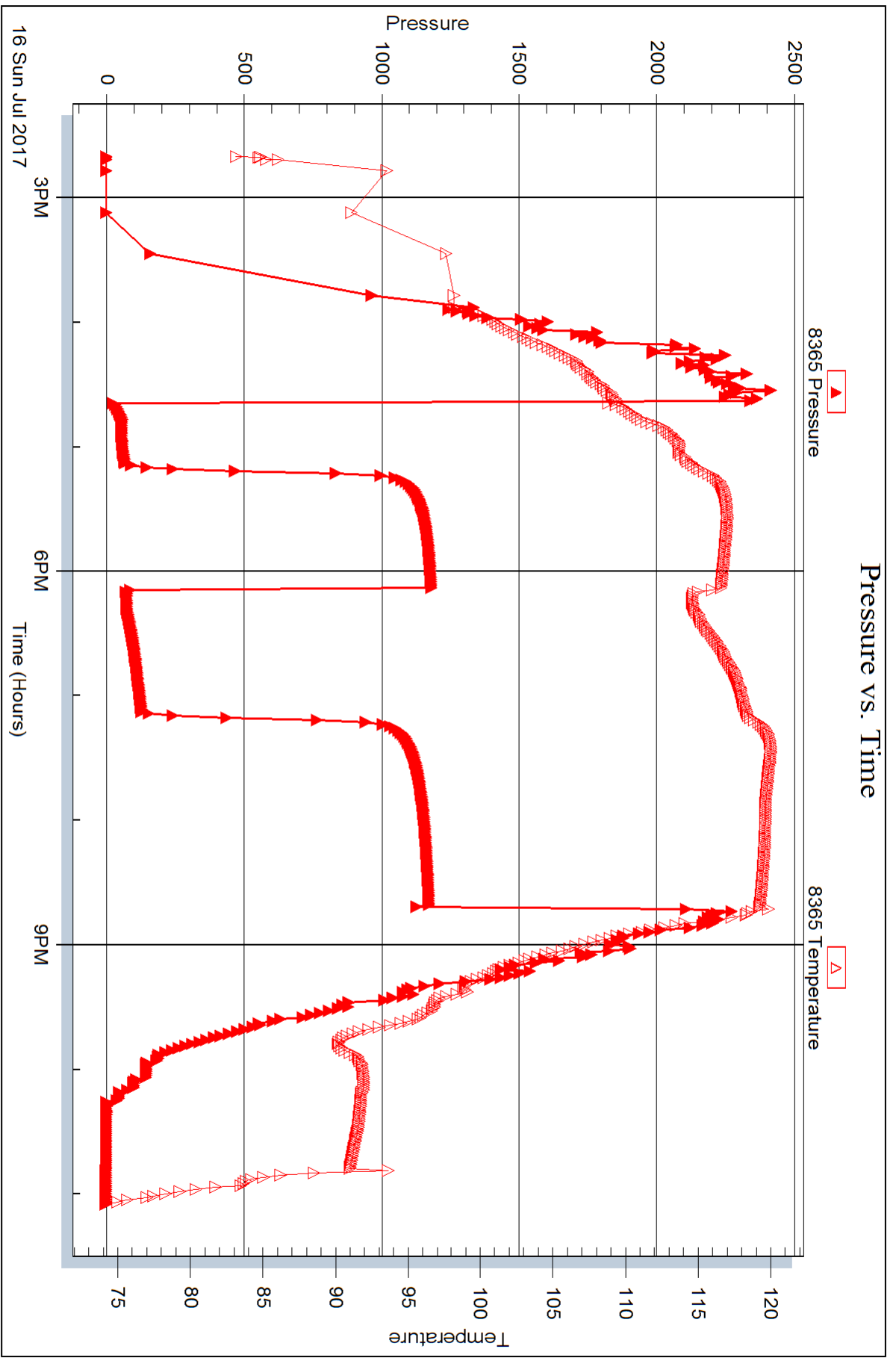
Serial #: 8365

Inside

Eagle Creek Corporation

Johnson-Rapier #1-24

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Corporation**

8100 E 22nd St N  
Bldg 500 Suite A  
Wichita, KS 67226

ATTN: Rocky Milford

### **Johnson-Rapier #1-24**

### **24 20s 35w Wichita,KS**

Start Date: 2017.07.17 @ 05:37:00

End Date: 2017.07.17 @ 14:10:15

Job Ticket #: 64208                      DST #: 2

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

Printed: 2017.07.17 @ 15:35:54



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Eagle Creek Corporation  
 8100 E 22nd St N  
 Bldg 500 Suite A  
 Wichita, KS 67226  
 ATTN: Rocky Milford

**24 20s 35w Wichita, KS**

**Johnson-Rapier #1-24**

Job Ticket: 64208 **DST#: 2**

Test Start: 2017.07.17 @ 05:37:00

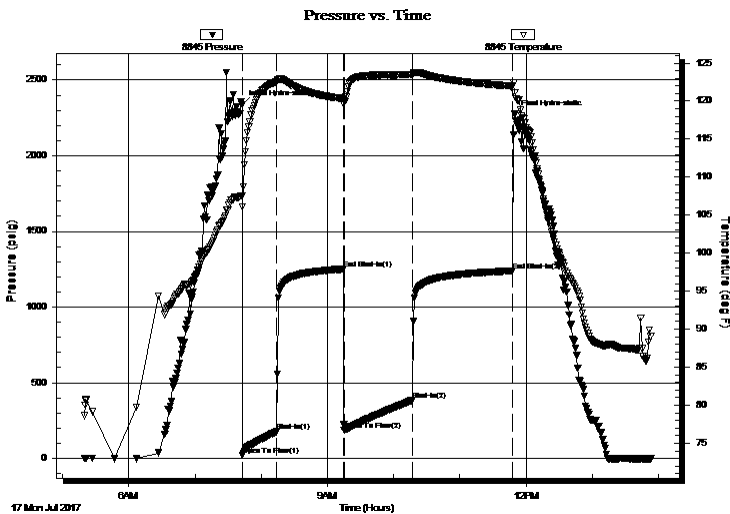
## GENERAL INFORMATION:

Formation: **Ft Scott**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:00:00  
 Time Test Ended: 14:10:15  
 Interval: **4604.00 ft (KB) To 4619.00 ft (KB) (TVD)**  
 Total Depth: 4619.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 3146.00 ft (KB)  
 3141.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8845 Outside**  
 Press@RunDepth: 384.01 psig @ 4605.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.07.17 End Date: 2017.07.17 Last Calib.: 2017.07.17  
 Start Time: 05:20:05 End Time: 13:53:15 Time On Btm: 2017.07.17 @ 07:42:45  
 Time Off Btm: 2017.07.17 @ 11:49:45

TEST COMMENT: IF: BOB @ 12 min.  
 IS: No return.  
 FF: BOB @ 13 min.  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2338.17	107.53	Initial Hydro-static
1	22.53	106.07	Open To Flow (1)
32	178.37	122.56	Shut-In(1)
92	1249.91	120.31	End Shut-In(1)
93	184.32	119.90	Open To Flow (2)
155	384.01	123.49	Shut-In(2)
245	1238.90	121.97	End Shut-In(2)
247	2274.78	121.08	Final Hydro-static

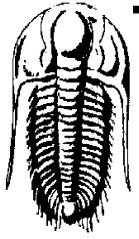
## Recovery

Length (ft)	Description	Volume (bbl)
800.00	smcw 3m 97w (oil spots on top)	10.14

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Eagle Creek Corporation  
8100 E 22nd St N  
Bldg 500 Suite A  
Wichita, KS 67226  
ATTN: Rocky Milford

**24 20s 35w Wichita, KS**

**Johnson-Rapier #1-24**

Job Ticket: 64208

**DST#: 2**

Test Start: 2017.07.17 @ 05:37:00

### GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:00:00

Time Test Ended: 14:10:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 4604.00 ft (KB) To 4619.00 ft (KB) (TVD)**

Reference Elevations: 3146.00 ft (KB)

Total Depth: 4619.00 ft (KB) (TVD)

3141.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8365**

**Inside**

Press@RunDepth: psig @ 4605.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.07.17

End Date:

2017.07.17

Last Calib.:

2017.07.17

Start Time: 05:20:05

End Time:

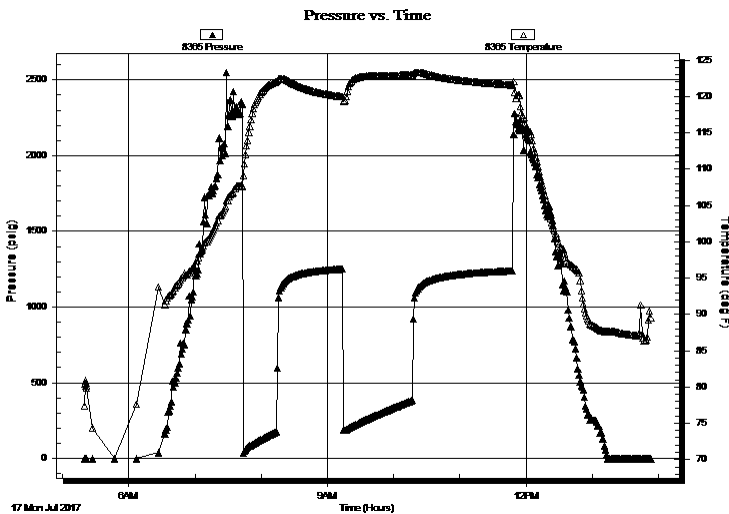
13:53:15

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: BOB @ 12 min.  
IS: No return.  
FF: BOB @ 13 min.  
FS: No return.

### PRESSURE SUMMARY



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

### Recovery

### Gas Rates

Length (ft)	Description	Volume (bbl)
800.00	smcw 3m 97w (oil spots on top)	10.14

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Eagle Creek Corporation

**24 20s 35w Wichita, KS**

8100 E 22nd St N  
Bldg 500 Suite A  
Wichita, KS 67226  
ATTN: Rocky Milford

**Johnson-Rapier #1-24**

Job Ticket: 64208

**DST#: 2**

Test Start: 2017.07.17 @ 05:37:00

## Tool Information

Drill Pipe:	Length: 4482.00 ft	Diameter: 3.80 inches	Volume: 62.87 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 63.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4604.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	42.00 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			4578.00	
Shut In Tool	5.00			4583.00	
Hydraulic tool	5.00			4588.00	
Jars	5.00			4593.00	
Safety Joint	2.00			4595.00	
Packer	5.00			4600.00	27.00 Bottom Of Top Packer
Packer	4.00			4604.00	
Stubb	1.00			4605.00	
Recorder	0.00	8365	Inside	4605.00	
Recorder	0.00	8845	Outside	4605.00	
Perforations	11.00			4616.00	
Bullnose	3.00			4619.00	15.00 Bottom Packers & Anchor

**Total Tool Length: 42.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Eagle Creek Corporation

**24 20s 35w Wichita, KS**

8100 E 22nd St N  
Bldg 500 Suite A  
Wichita, KS 67226  
ATTN: Rocky Milford

**Johnson-Rapier #1-24**

Job Ticket: 64208

**DST#: 2**

Test Start: 2017.07.17 @ 05:37:00

## 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:

41000 ppm

Viscosity: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
800.00	smcw 3m 97w (oil spots on top)	10.138

Total Length: 800.00 ft      Total Volume: 10.138 bbl

Num Fluid Samples: 0

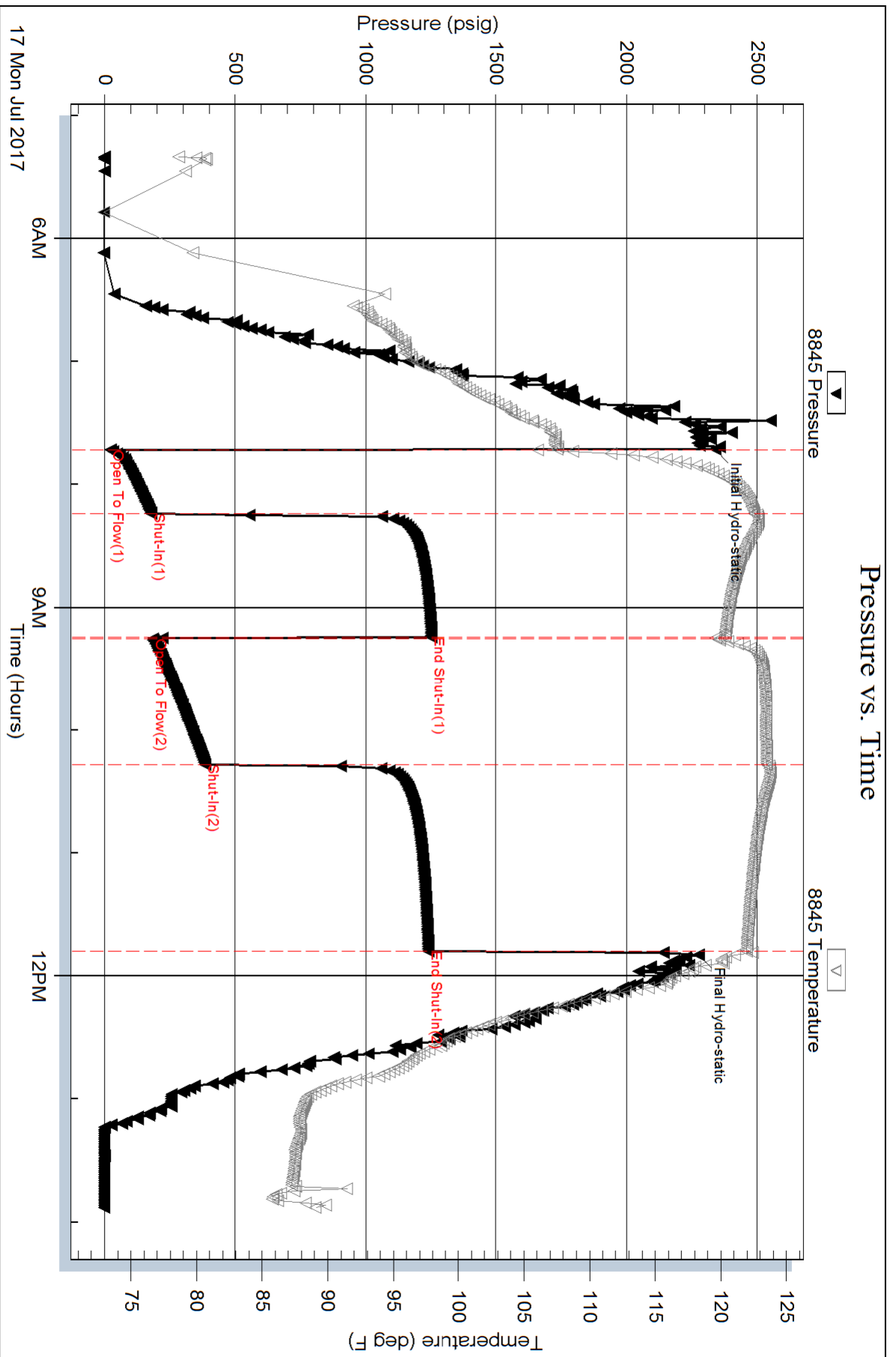
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .137 @ 87f = 41000ppm



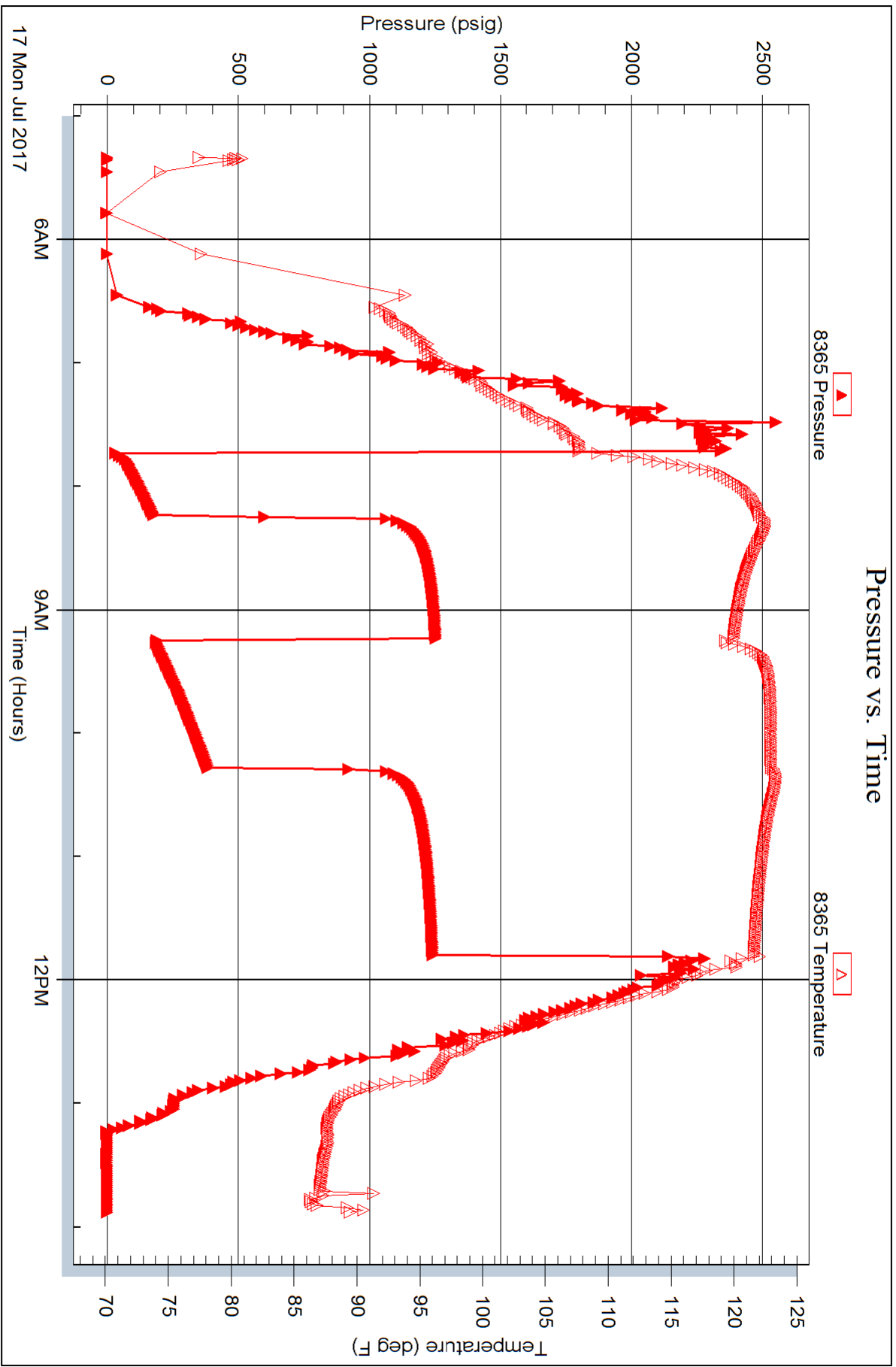
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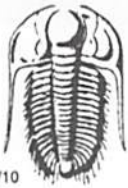
Inside

Eagle Creek Corporation

Johnson-Rapier #1-24

DST Test Number: 2





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64207**

Well Name & No. Johnson-Rapier #1-24 Test No. 1 Date 7/16/2017  
 Company Eagle Creek Corporation Elevation 3146 KB 3141 GL  
 Address 5100 E 22<sup>nd</sup> St. N, Bldg 500 Suite A Wichita, KS 67226  
 Co. Rep / Geo. Rocky Milford Rig WW #2  
 Location: Sec. 24 Twp. 20S Rge. 35W Co. Wichita State Ks

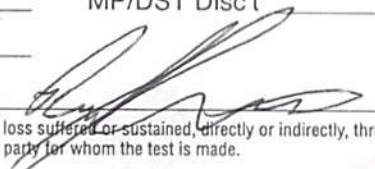
Interval Tested 4575 - 4603 Zone Tested Pawnee  
 Anchor Length 28' Drill Pipe Run 4450 Mud Wt. 9.2  
 Top Packer Depth 4570 Drill Collars Run 119 Vis 61  
 Bottom Packer Depth 4575 Wt. Pipe Run 0 WL 6.4  
 Total Depth 4603 Chlorides 3800 ppm System LCM 2 #

Blow Description IF: BOB @ 9 1/2 min.  
ISF: 1/2" return, receded to surface  
FF: BOB @ 5 min.  
FST: BOB @ 24 min, receded to 8"

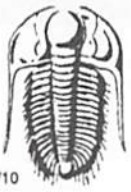
Rec	Feet of	%gas	%oil	%water	%mud
<u>210</u>	<u>6 mcd</u>	<u>40%</u>	<u>35%</u>	<u>25%</u>	
<u>120</u>	<u>60</u>	<u>20%</u>	<u>50%</u>		
	<u>1180' GIP</u>				

Rec Total 330 BHT 120 Gravity 30 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2333</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1400</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1440</u>
(C) First Final Flow <u>67</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1639</u>
(D) Initial Shut-In <u>1177</u>	<input checked="" type="checkbox"/> Circ Sub <u>1/2</u>	T-Pulled <u>2039</u>
(E) Second Initial Flow <u>85</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2306</u>
(F) Second Final Flow <u>126</u>	<input checked="" type="checkbox"/> Mileage <u>78 LT</u> <u>58.50</u>	Comments
(G) Final Shut-In <u>1170</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2285</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1533.50</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1533.50</u>	

Approved By \_\_\_\_\_ Our Representative 

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. **64208**

Well Name & No. Johnson Rapier #1-24 Test No. 2 Date 7/17/2017  
 Company Eagle Creek Corporation Elevation 3146 KB 3141 GL  
 Address 8100 E 22<sup>nd</sup> St N Bldg 500 Suite A Wichita, KS 67226  
 Co. Rep / Geo. Rocky Milford Rig WW #10  
 Location: Sec. 24 Twp. 20s Rge. 35w Co. Wichita State KS

Interval Tested 4604 4619 Zone Tested Ft Scott  
 Anchor Length 15 Drill Pipe Run 4482 Mud Wt. 9.2  
 Top Packer Depth 4599 Drill Collars Run 119 Vis 69  
 Bottom Packer Depth 4604 Wt. Pipe Run Ø WL 6.4  
 Total Depth 4619 Chlorides 3500 ppm System LCM 2<sup>nd</sup>

Blow Description IF: BOB @ 12 min.  
ISI: No return.  
FF: BOB @ 13 min.  
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>800</u>	<u>SNOW</u>			<u>97</u>	<u>3</u>

Rec Total 800 BHT 122 Gravity — API RW 137 @ 87 °F Chlorides 41000 ppm  
 (A) Initial Hydrostatic 2338  Test 1150 T-On Location 0430  
 (B) First Initial Flow 23  Jars 250 T-Started 0530  
 (C) First Final Flow 178  Safety Joint 75 T-Open 0747  
 (D) Initial Shut-In 1250  Circ Sub N/C T-Pulled 11:50  
 (E) Second Initial Flow 184  Hourly Standby \_\_\_\_\_ T-Out 1353  
 (F) Second Final Flow 384  Mileage 78 RT 58.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 1239  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2275  Straddle \_\_\_\_\_  
 Initial Open 30  Shale Packer \_\_\_\_\_  
 Initial Shut-In 60  Extra Packer \_\_\_\_\_  
 Final Flow 60  Extra Recorder \_\_\_\_\_  
 Final Shut-In 90  Day Standby \_\_\_\_\_  
 Sub Total 1533.50  Accessibility \_\_\_\_\_  
 Sub Total 1533.50  Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1533.50  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ 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.

# Robert L. Milford

PETROLEUM GEOLOGIST  
Wichita, Kansas

## GEOLOGISTS' REPORT

DRILLING TIME AND SAMPLE LOG

OPERATOR Eagle Creek Corporation  
LEASE Johnson-Rapier #1-24  
LOC. SPOT 51 S & 12 1/2 E of E2 NE SW

LOC. FOOTAGE 1 929' FSL & 2 846' FEL  
SEC. 24 TWPSP 20S RANG 35W  
COUNTY Wichita STATE Kansas

API 15-203-20320-00-00  
CONTRACTOR W/M/Drilling, LLC  
DRILLING STARTED 7-10-2017 COMPLETED 7-17-2017  
MUD DISPLAYED 3.438 MUD TYPE Chemical  
DRILLING TIME KEPT FROM 3.700 TO RTD  
SAMPLES SAVED FROM 3.900 TO RTD  
SAMPLES EXAMINED FROM 3.900 TO RTD  
GEOLOGICAL SUPERVISION FROM 3.900 TO RTD

MEASUREMENTS  
KB 3 146'  
GL 3 141'

ELEVATIONS  
Casing Record  
Conductor  
Surface 8.5/8" @ 220'  
w/ 165 sacks cement  
Production 5.1/2" @ 4698  
w/ 550 sacks cement

ELECTRICAL SURVEYS  
ELI Wireline  
Dip Induction Log  
Compressed Density  
GEOLOGICAL SUPERVISION FROM 3.900 TO RTD

FORMATION NAME TOP DATUM SAMPLE DATUM

Base Stone Corral	2,285'	+861'	2,286'	+860'
Heebner	3,970'	-824'	3,969'	-823'
Lansing	4,014'	-868'	4,013'	-867'
Stark	4,329'	-1183'	4,328'	-1182'
B/KC	4,476'	-1330'	4,474'	-1328'
Marmaton	4,507'	-1361'	4,505'	-1359'
Palmer Porosity	4,589'	-1443'	4,587'	-1441'
Fort Scott	4,612'	-1466'	4,610'	-1464'
Cherokee	4,632'	-1486'	4,630'	-1484'
Total Depth	4,702'	-1556'	4,700'	-1554'

DATE	7:00 AM DEPTH	REMARKS
7-10-17	0'	Spud @ 4:45 pm. Plug down @ 8:30 pm. Drilled out plug @ 5:00 am on 7-11-17
7-11-17	340'	Cut 340' in last 24 hrs.
7-12-17	2,400'	Cut 2,060' in last 24 hrs; 22 hrs drlg.
7-13-17	3,250'	Cut 850' in last 24 hrs; 22,25 hrs drlg.
7-14-17	3,845'	Cut 595' in last 24 hrs; 22 hrs drlg. Ran 38 stand wiper trip @ 3900'
7-15-17	4,230'	Cut 385' in last 24 hrs; 19,25 hrs drlg.
7-16-17	4,578'	Cut 348' in last 24 hrs; 22,25 hrs drlg. DST #1 @ 4603'. DST #2 @ 4619'
7-17-17	4,619'	Cut 41' in last 24 hrs; 3,25 hrs drlg. RTD 4700' @ 11:11 pm
7-18-17	4,700'	Cut 81' in last 24 hrs; 6,25 hrs drlg. Ran production casing.

**Remarks**

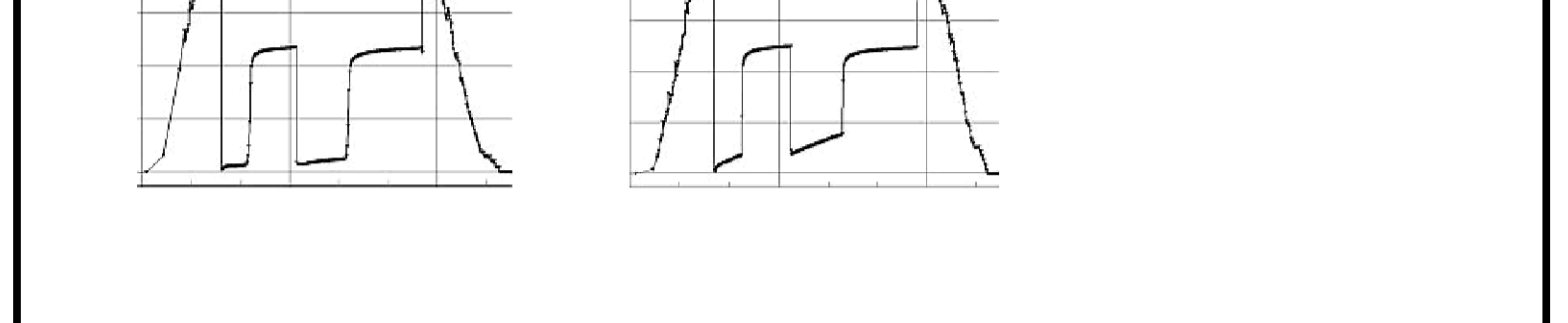
The electric log measurements correlate from 1' higher to 2' lower to the drilling measurements.

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



LITH	DRILL TIME (MIN/FT)	DEPTH	SAMPLE DESCRIPTIONS	REMARKS
		2200		
		2250		
		2300		Stone Corral 2271' (+875) EL
				B/Stone Corral 2285' (+861) EL
		2350		

		3700		Call depth 3700' @ 12:58 am on 7-14-17 Lithology is inferred from only electric logs from 3700' to 3900'
--	--	------	--	---

		3750		
--	--	------	--	--

		3800		
--	--	------	--	--

		3850		
--	--	------	--	--

		3900		Ran a 38 stand wiper trip at 3900'. Made trip to above top of Cedar Hills @ 1557'. Circulated to clean hole for 30' prior to trip and 45' after trip. No samples caught. Samples start 3900' @ 1:29 pm on 7-14-17 Mud Co./Service Mud @ 3900': 58 Vis, 8.8 Wt, 7.2 WL, 3,000 ppm Chl, 2# LCM (10:30 am, while pulling pipe on wiper trip)
--	--	------	--	---

		3950		
--	--	------	--	--

		3970		Heebner 3970' (-824) EL
--	--	------	--	-------------------------

		4000		
--	--	------	--	--

		4050		Lansing 4014' (-868) EL
--	--	------	--	-------------------------

		4100		changed Geolograph chart at 4052'
--	--	------	--	-----------------------------------

		4150		
--	--	------	--	--

		4200		
--	--	------	--	--

		4250		Muncie Creek 4218' (-1072) EL
--	--	------	--	-------------------------------

		4300		
--	--	------	--	--

		4350		Stark 4329' (-1183) EL
--	--	------	--	------------------------

		4400		
--	--	------	--	--

		4450		Hushpuckney 4383' (-1237) EL
--	--	------	--	------------------------------

		4500		amount of shale started to increase in samples and included a lot of red-brn shale
--	--	------	--	--

		4550		At 4426' the weight on the bit was reduced by 4,000 lbs and the pump pressure was also reduced to help decrease shale in samples Added a tank of mud to improve samples
--	--	------	--	--

		4600		B/KC 4476' (-1330) EL
--	--	------	--	-----------------------

		4650		Marmaton 4507' (-1361) EL
--	--	------	--	---------------------------

		4700		
--	--	------	--	--

		4750		DST #1 4575'-4603' Pawnee IFI: BOB in 9.5' ISI: blow built to 0.5". Then tied to surface FF: BOB in 5' FSI: BOB in 24", died back to 8" Rec: 1180' GIP & 330' TOTAL FLUID: 120' GO (20% G, 80% O) 210' GMCO (40% G, 35% O, 25% M) Oil Gravity 30° API IFP: 21-67#/30° FSI: 117#/60° FFP: 85-126#/60° FSI: 1170#/90°
--	--	------	--	---

		4800		Bandera Shale 4581' (-1435) EL
--	--	------	--	--------------------------------

		4850		Pawnee Por. 4589' (-1443) EL Mud Co./Service Mud @ 4591': 61 Vis, 9.2 Wt, 6.4 WL, 3,800 ppm Chl, 2# LCM Pipe Strap @ 4603': Strap short 0.78' Straight Hole Survey @ 4603': 1" Dev. Ran 24 stand short trip prior to DST #1
--	--	------	--	---

		4900		Labette Shale 4608' (-1462) EL Fort Scott 4612' (-1466) EL Mud Co./Service Mud @ 4619': 59 Vis, 9.3 Wt, 9.6 WL, 6,200 ppm Chl, 2# LCM (9:00 am, during LSIP on DST #2)
--	--	------	--	--

		4950		Cherokee 4632' (-1486) EL DST #2 4604'-4619' Ft. Scott IFI: BOB in 12 min. FSI: no blow back FF: BOB in 13 min. FSI: no blow back Rec: 800' SMCW w/ oil spots on top (97% W, 3% M) Chl ppm: 41,000 DST: 3,800 Mud IFP: 23-176#/30° FSI: 1250#/60° FFP: 184-384#/60° FSI: 1239#/90°
--	--	------	--	---

		5000		Straight Hole Survey @ 4700': 0.75" Dev. R.T.D. 4700' (-1554) L.T.D. 4702' (-1556)
--	--	------	--	--