

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1263878
OIL & GAS CONSERVATION DIVISION



Form ACO-1
November 2016

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 Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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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: _____

1263878



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			
Geologist Report / Mud Logs	<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)*

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>	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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DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Exploration**

8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226

ATTN: Gary Gensch

Vulgamore #1-31

31-18s33w Scott,KS

Start Date: 2015.08.14 @ 23:49:15

End Date: 2015.08.15 @ 07:19:30

Job Ticket #: 64454 DST #: 1

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

Printed: 2015.08.20 @ 14:21:17



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Eagle Creek Exploration
8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226
ATTN: Gary Gensch

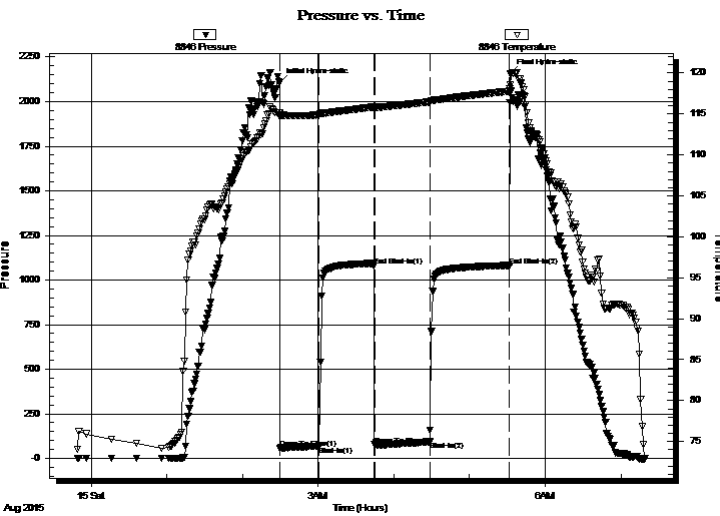
31-18s33w Scott,KS
Vulgamore #1-31
Job Ticket: 64454 **DST#: 1**
Test Start: 2015.08.14 @ 23:49:15

GENERAL INFORMATION:

Formation: **LKC H-I**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:29:30
Time Test Ended: 07:19:30
Interval: **4166.00 ft (KB) To 4243.00 ft (KB) (TVD)**
Total Depth: 4243.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Mike Roberts
Unit No: 65
Reference Elevations: 3055.00 ft (KB)
3045.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8846 Inside
Press@RunDepth: 93.37 psig @ 4170.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.08.14 End Date: 2015.08.15 Last Calib.: 2015.08.15
Start Time: 23:49:15 End Time: 07:19:30 Time On Btm: 2015.08.15 @ 02:29:15
Time Off Btm: 2015.08.15 @ 05:32:00

TEST COMMENT: IF: Built to 2" blow
IS: No return blow
FF: Built to 2" blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2105.31	115.09	Initial Hydro-static
1	57.13	114.62	Open To Flow (1)
32	69.08	114.92	Shut-In(1)
75	1077.03	115.86	End Shut-In(1)
76	76.43	115.58	Open To Flow (2)
120	93.37	116.49	Shut-In(2)
183	1078.44	117.78	End Shut-In(2)
183	2157.21	118.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	mud with oil spots 100% m	1.26

Gas Rates

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



DRILL STEM TEST REPORT

Eagle Creek Exploration
 8100 E. 22nd ST.
 North Building 1500 Suite A
 Wichita KS 67226
 ATTN: Gary Gensch

31-18s33w Scott,KS
Vulgamore #1-31
 Job Ticket: 64454 **DST#: 1**
 Test Start: 2015.08.14 @ 23:49:15

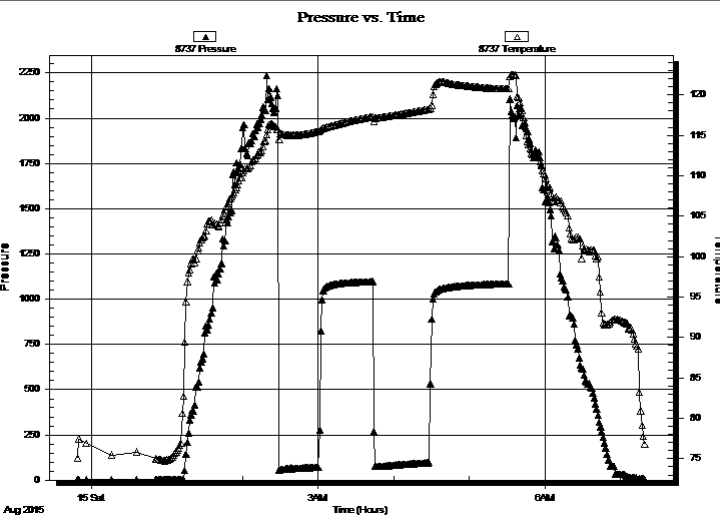
GENERAL INFORMATION:

Formation: LKC H-I	Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 02:29:30			Tester: Mike Roberts
Time Test Ended: 07:19:30			Unit No: 65
Interval: 4166.00 ft (KB) To 4243.00 ft (KB) (TVD)			Reference Elevations: 3055.00 ft (KB)
Total Depth: 4243.00 ft (KB) (TVD)			3045.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair		KB to GR/CF: 10.00 ft

Serial #: 8737 Outside

Press@RunDepth: psig @	4170.00 ft (KB)	Capacity:	8000.00 psig
Start Date: 2015.08.14	End Date: 2015.08.15	Last Calib.:	2015.08.15
Start Time: 23:49:15	End Time: 07:19:15	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF: Built to 2" blow
 IS: No return blow
 FF: Built to 2" blow
 FS: No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
90.00	mud w ith oil spots 100% m	1.26

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Eagle Creek Exploration

31-18s33w Scott,KS

8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226
ATTN: Gary Gensch

Vulgamore #1-31

Job Ticket: 64454

DST#: 1

Test Start: 2015.08.14 @ 23:49:15

Tool Information

Drill Pipe:	Length: 4171.00 ft	Diameter: 3.80 inches	Volume: 58.51 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: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 58.51 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	4166.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	77.00 ft			
Tool Length:	105.00 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			4139.00	
Shut In Tool	5.00			4144.00	
Hydraulic tool	5.00			4149.00	
Jars	5.00			4154.00	
Safety Joint	3.00			4157.00	
Packer	5.00			4162.00	28.00 Bottom Of Top Packer
Packer	4.00			4166.00	
Stubb	1.00			4167.00	
Perforations	3.00			4170.00	
Recorder	0.00	8846	Inside	4170.00	
Recorder	0.00	8737	Outside	4170.00	
Change Over Sub	1.00			4171.00	
Drill Pipe	61.00			4232.00	
Change Over Sub	1.00			4233.00	
Perforations	5.00			4238.00	
Bullnose	5.00			4243.00	77.00 Bottom Packers & Anchor
Total Tool Length:	105.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Eagle Creek Exploration

31-18s33w Scott,KS

8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226
ATTN: Gary Gensch

Vulgamore #1-31

Job Ticket: 64454

DST#: 1

Test Start: 2015.08.14 @ 23:49:15

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 8.71 in³

Resistivity: 0.00 ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

0 deg API

Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	mud w ith oil spots 100% m	1.262

Total Length: 90.00 ft Total Volume: 1.262 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

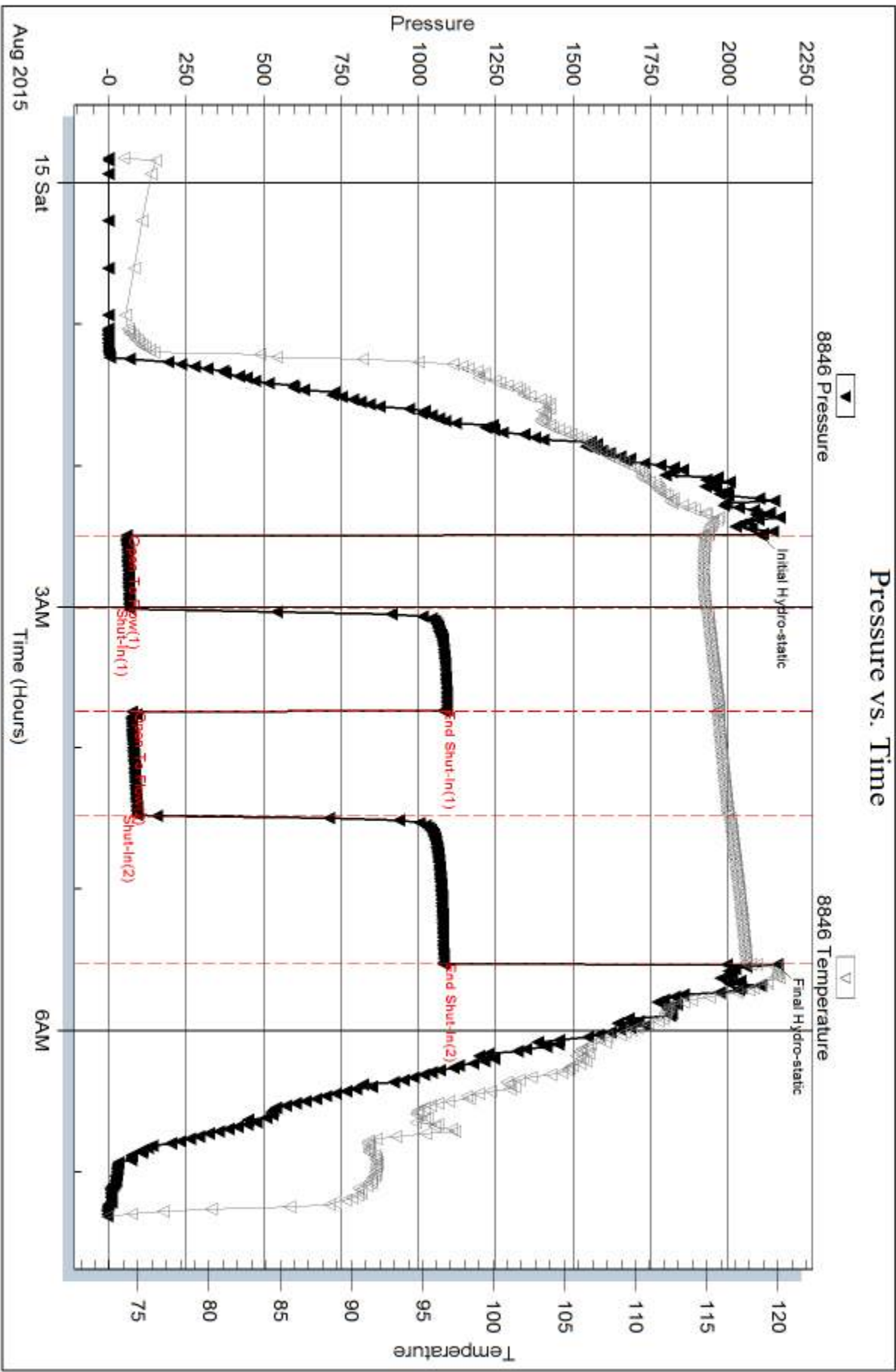
Serial #: 8846

Inside

Eagle Creek Exploration

Vulgamore #1-31

DST Test Number: 1

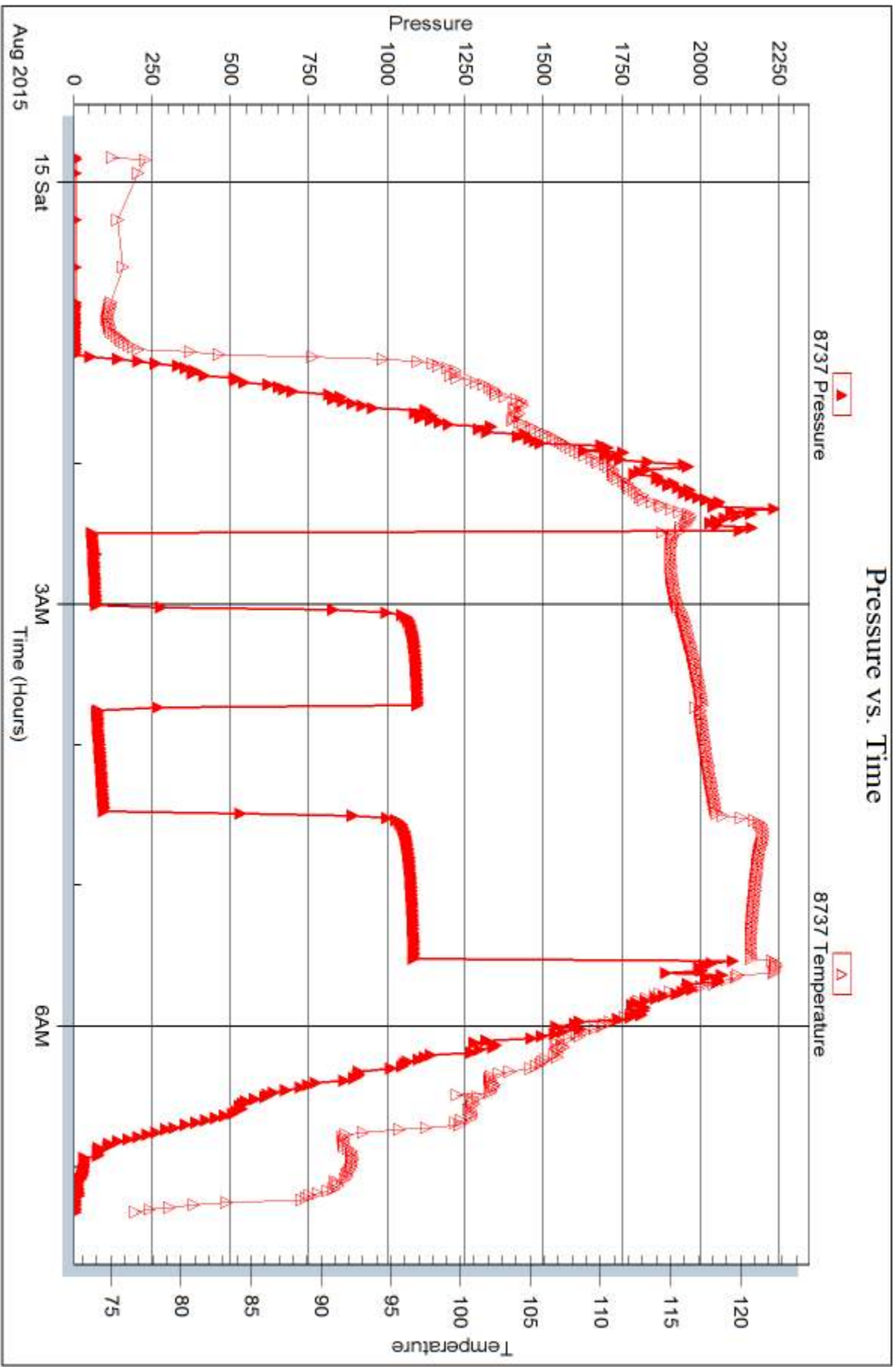


Serial #: 8737

Outside Eagle Creek Exploration

Vulgamore #1-31

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Exploration**

8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226

ATTN: Gary Gensch

Vulgamore #1-31

31-18s33w Scott,KS

Start Date: 2015.08.15 @ 16:42:15

End Date: 2015.08.16 @ 00:34:45

Job Ticket #: 64455 DST #: 2

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

Printed: 2015.08.20 @ 14:20:54



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Eagle Creek Exploration
 8100 E. 22nd ST.
 North Building 1500 Suite A
 Wichita KS 67226
 ATTN: Gary Gensch

31-18s33w Scott,KS
Vulgamore #1-31
 Job Ticket: 64455 **DST#: 2**
 Test Start: 2015.08.15 @ 16:42:15

GENERAL INFORMATION:

Formation: **LKC K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:30:45
 Time Test Ended: 00:34:45
 Interval: **4302.00 ft (KB) To 4321.00 ft (KB) (TVD)**
 Total Depth: 4321.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 65
 Reference Elevations: 3055.00 ft (KB)
 3045.00 ft (CF)
 KB to GR/CF: 10.00 ft

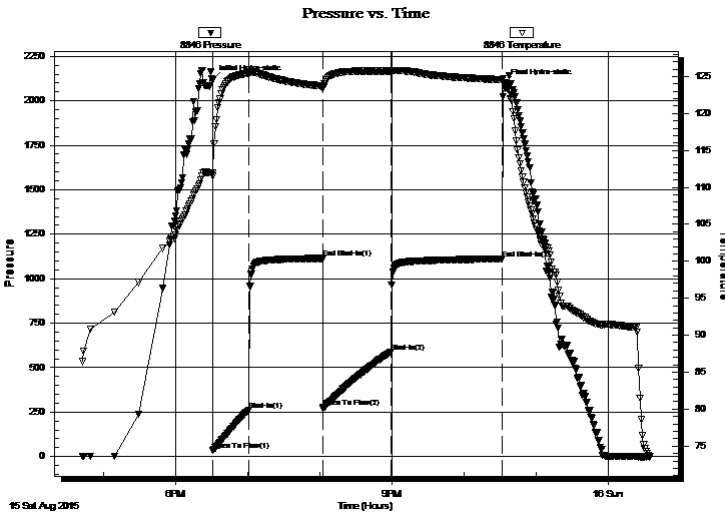
Serial #: 8846

Inside

Press@RunDepth: 589.20 psig @ 4316.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.08.15 End Date: 2015.08.16 Last Calib.: 2015.08.16
 Start Time: 16:42:15 End Time: 00:34:45 Time On Btm: 2015.08.15 @ 18:30:15
 Time Off Btm: 2015.08.15 @ 22:33:45

TEST COMMENT: IF:BOB in 7 min.
 IS:No return blow
 FF:BOB in 8 min.
 FS:No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2117.28	111.92	Initial Hydro-static
1	35.46	111.51	Open To Flow (1)
31	261.98	125.44	Shut-In(1)
92	1114.61	123.70	End Shut-In(1)
93	275.20	123.37	Open To Flow (2)
149	589.20	125.72	Shut-In(2)
242	1111.83	124.55	End Shut-In(2)
244	2096.70	124.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
77.00	ocw m 1%o 39%w 60%m	1.08
248.00	mcw 50%m 50%w	3.48
1039.00	w ater 100%w	14.57

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Eagle Creek Exploration
8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226
ATTN: Gary Gensch

31-18s33w Scott,KS
Vulgamore #1-31
Job Ticket: 64455 **DST#: 2**
Test Start: 2015.08.15 @ 16:42:15

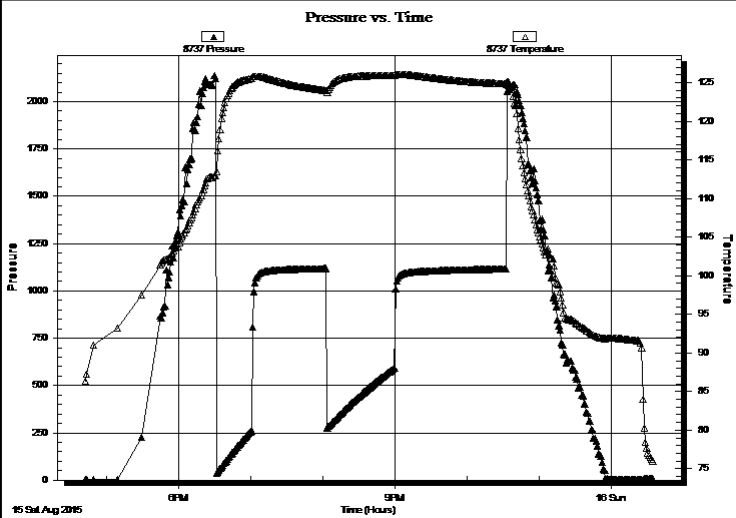
GENERAL INFORMATION:

Formation: **LKC K**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 18:30:45 Tester: Mike Roberts
Time Test Ended: 00:34:45 Unit No: 65
Interval: 4302.00 ft (KB) To 4321.00 ft (KB) (TVD) Reference Elevations: 3055.00 ft (KB)
Total Depth: 4321.00 ft (KB) (TVD) 3045.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8737 Outside

Press@RunDepth: psig @ 4316.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.08.15 End Date: 2015.08.16 Last Calib.: 2015.08.16
Start Time: 16:42:15 End Time: 00:35:00 Time On Btm:
Time Off Btm:

TEST COMMENT: IF:BOB in 7 min.
IS:No return blow
FF:BOB in 8 min.
FS:No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
77.00	ocw m 1%o 39%w 60%m	1.08
248.00	mcw 50%m 50%w	3.48
1039.00	w ater 100%w	14.57

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Eagle Creek Exploration

31-18s33w Scott,KS

8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226
ATTN: Gary Gensch

Vulgamore #1-31

Job Ticket: 64455

DST#: 2

Test Start: 2015.08.15 @ 16:42:15

Tool Information

Drill Pipe:	Length: 4296.00 ft	Diameter: 3.80 inches	Volume: 60.26 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: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4302.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 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			4282.00	
Shut In Tool	5.00			4287.00	
Hydraulic tool	5.00			4292.00	
Packer	5.00			4297.00	21.00 Bottom Of Top Packer
Packer	5.00			4302.00	
Stubb	1.00			4303.00	
Perforations	13.00			4316.00	
Recorder	0.00	8846	Inside	4316.00	
Recorder	0.00	8737	Outside	4316.00	
Bullnose	5.00			4321.00	19.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Eagle Creek Exploration

31-18s33w Scott,KS

8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226
ATTN: Gary Gensch

Vulgamore #1-31

Job Ticket: 64455

DST#: 2

Test Start: 2015.08.15 @ 16:42:15

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:

24000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.92 in³

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
77.00	ocw m 1%o 39%w 60%m	1.080
248.00	mcw 50%m 50%w	3.479
1039.00	water 100%w	14.574

Total Length: 1364.00 ft Total Volume: 19.133 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

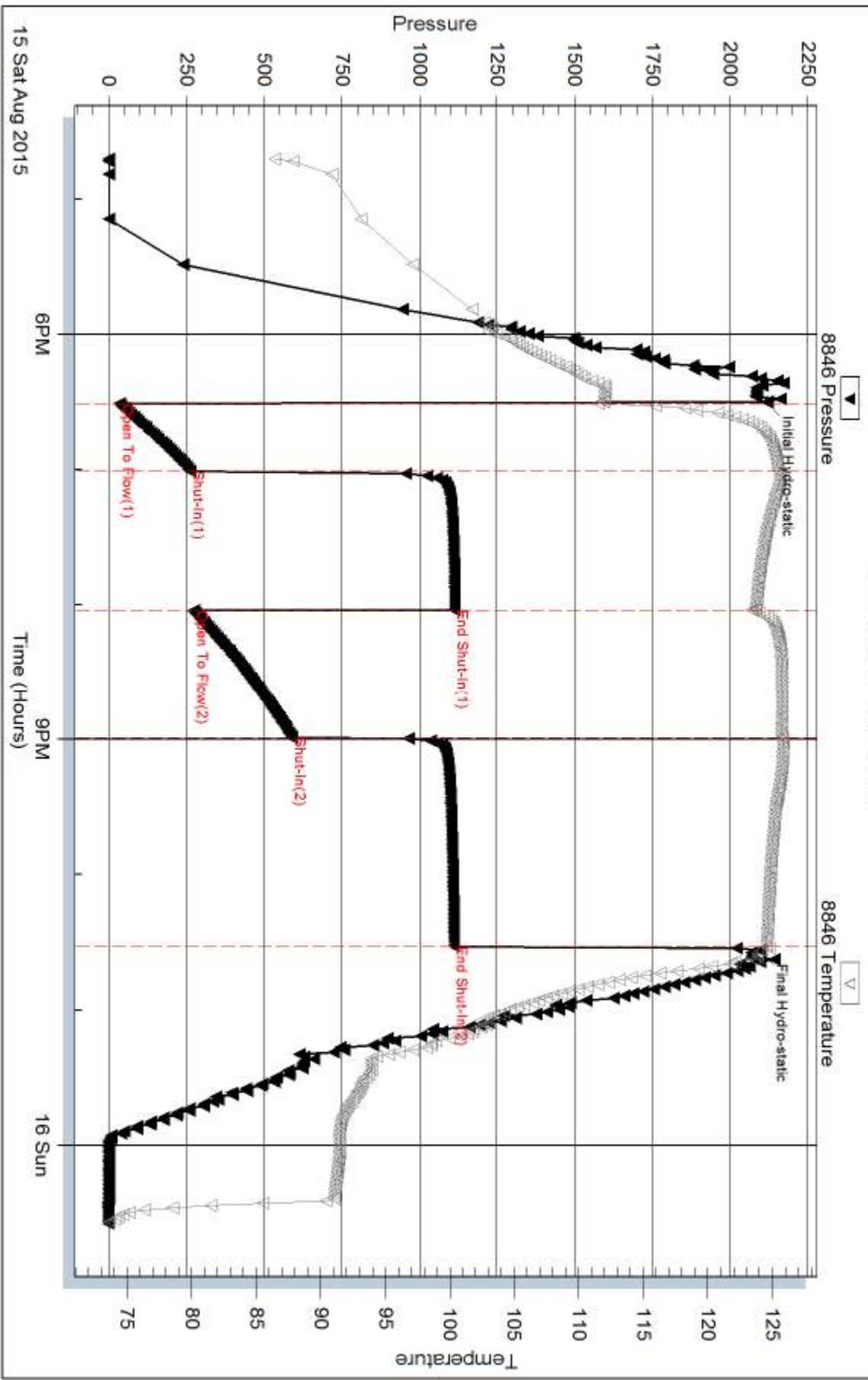
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .29@ 74.7*= 24,000 ppm

Pressure vs. Time

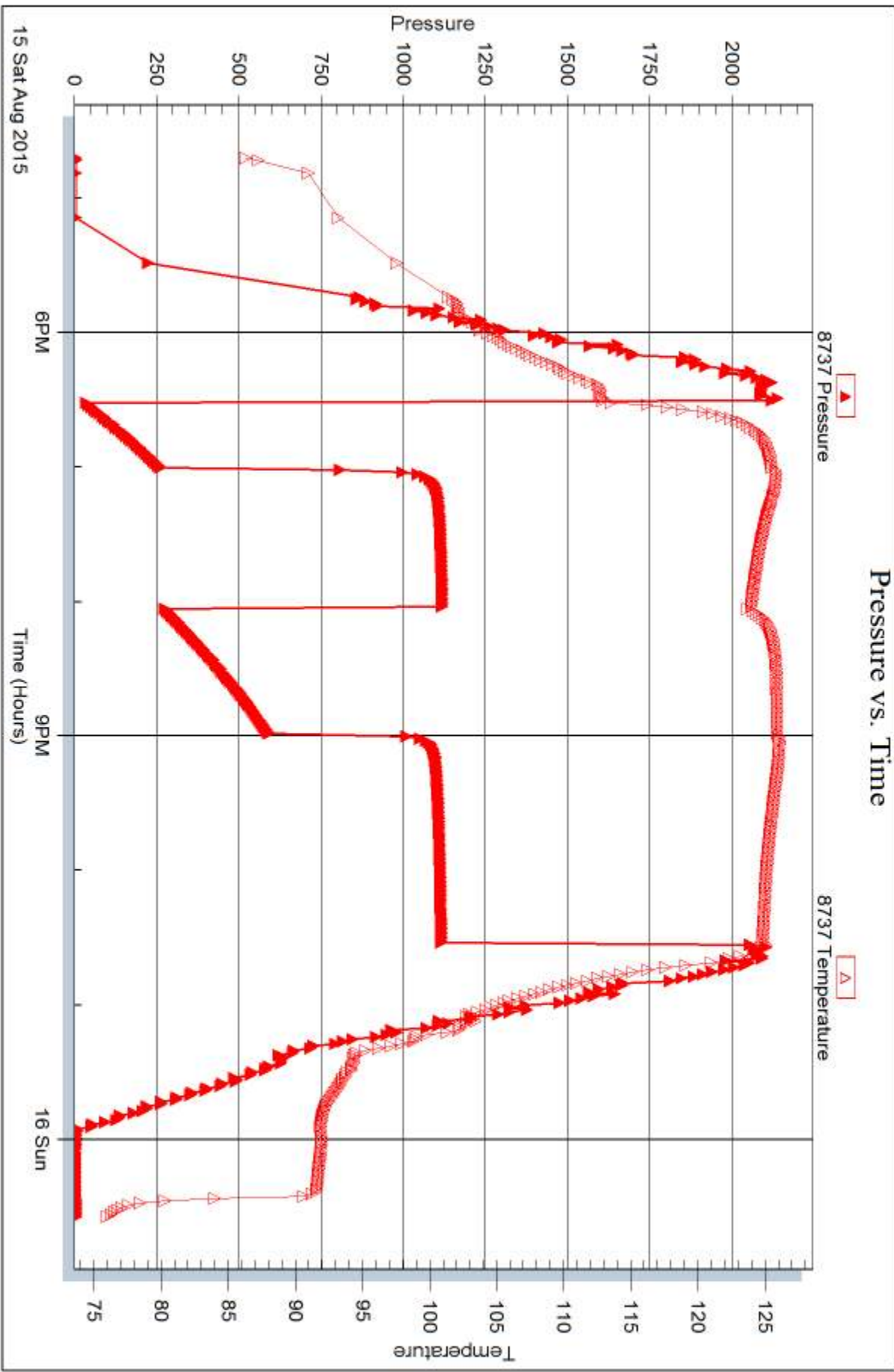


Serial #: 8737

Outside Eagle Creek Exploration

Vulgamore #1-31

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64455

Printed: 2015.08.20 @ 14:20:55



DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Exploration**

8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226

ATTN: Gary Gensch

Vulgamore #1-31

31-18s33w Scott,KS

Start Date: 2015.08.16 @ 22:54:15

End Date: 2015.08.17 @ 06:14:00

Job Ticket #: 64456 DST #: 3

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

Printed: 2015.08.20 @ 14:20:32



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Eagle Creek Exploration
 8100 E. 22nd ST.
 North Building 1500 Suite A
 Wichita KS 67226
 ATTN: Gary Gensch

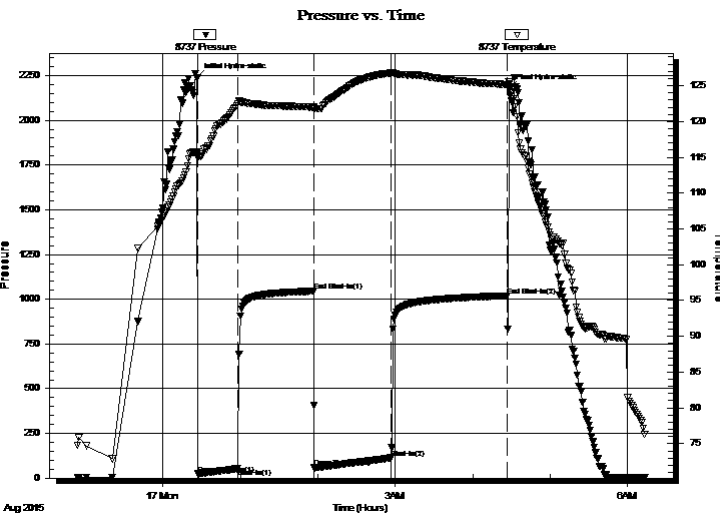
31-18s33w Scott,KS
Vulgamore #1-31
 Job Ticket: 64456 **DST#: 3**
 Test Start: 2015.08.16 @ 22:54:15

GENERAL INFORMATION:

Formation: **Marmaton C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:27:00
 Time Test Ended: 06:14:00
 Interval: **4468.00 ft (KB) To 4502.00 ft (KB) (TVD)**
 Total Depth: 4502.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 65
 Reference Elevations: 3055.00 ft (KB)
 3045.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8737 Outside
 Press@RunDepth: 111.40 psig @ 4497.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.08.16 End Date: 2015.08.17 Last Calib.: 2015.08.17
 Start Time: 22:54:00 End Time: 06:13:45 Time On Btm: 2015.08.17 @ 00:26:30
 Time Off Btm: 2015.08.17 @ 04:27:45

TEST COMMENT: IF:Built to 5" blow
 IS:No return blow
 FF:Built to 8" blow
 FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2235.99	115.72	Initial Hydro-static
1	23.64	114.97	Open To Flow (1)
32	53.38	122.52	Shut-In(1)
91	1045.26	122.01	End Shut-In(1)
91	62.01	121.71	Open To Flow (2)
151	111.40	126.78	Shut-In(2)
241	1019.91	125.15	End Shut-In(2)
242	2179.50	125.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	w cm 10%w 90%m	0.87
124.00	mcw 20%m 80%w	1.74

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Eagle Creek Exploration
 8100 E. 22nd ST.
 North Building 1500 Suite A
 Wichita KS 67226
 ATTN: Gary Gensch

31-18s33w Scott, KS

Vulgamore #1-31

Job Ticket: 64456 **DST#: 3**
 Test Start: 2015.08.16 @ 22:54:15

GENERAL INFORMATION:

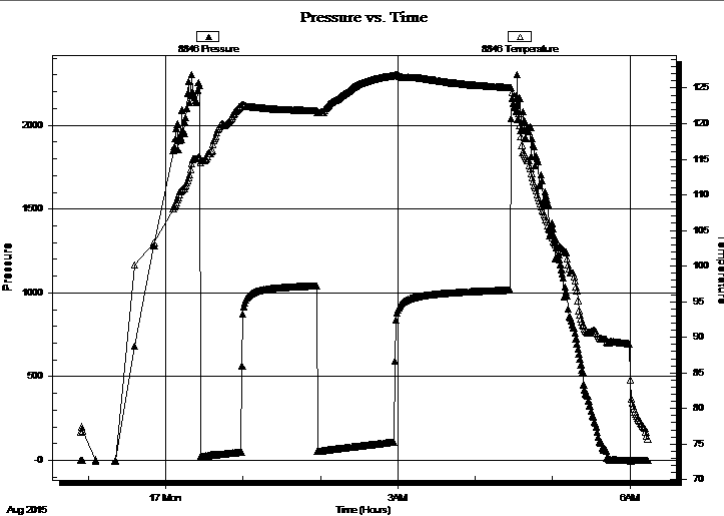
Formation: **Marmaton C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:27:00
 Time Test Ended: 06:14:00
 Interval: **4468.00 ft (KB) To 4502.00 ft (KB) (TVD)**
 Total Depth: 4502.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 65
 Reference Elevations: 3055.00 ft (KB)
 3045.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8846

Inside

Press@RunDepth: psig @ 4497.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.08.16 End Date: 2015.08.17 Last Calib.: 2015.08.17
 Start Time: 22:54:15 End Time: 06:14:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF:Built to 5" blow
 IS:No return blow
 FF:Built to 8" blow
 FS:No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
62.00	w cm 10%w 90%m	0.87
124.00	mcw 20%m 80%w	1.74

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Eagle Creek Exploration

31-18s33w Scott,KS

8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226
ATTN: Gary Gensch

Vulgamore #1-31

Job Ticket: 64456

DST#: 3

Test Start: 2015.08.16 @ 22:54:15

Tool Information

Drill Pipe:	Length: 4455.00 ft	Diameter: 3.80 inches	Volume: 62.49 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: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 62.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	4468.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	62.00 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			4441.00	
Shut In Tool	5.00			4446.00	
Hydraulic tool	5.00			4451.00	
Jars	5.00			4456.00	
Safety Joint	3.00			4459.00	
Packer	5.00			4464.00	28.00 Bottom Of Top Packer
Packer	4.00			4468.00	
Stubb	1.00			4469.00	
Perforations	28.00			4497.00	
Recorder	0.00	8846	Inside	4497.00	
Recorder	0.00	8737	Outside	4497.00	
Bullnose	5.00			4502.00	34.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Eagle Creek Exploration

31-18s33w Scott,KS

8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226
ATTN: Gary Gensch

Vulgamore #1-31

Job Ticket: 64456

DST#: 3

Test Start: 2015.08.16 @ 22:54:15

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:

31000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in³

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 bbbl
62.00	w cm 10%w 90%m	0.870
124.00	mcw 20%m 80%w	1.739

Total Length: 186.00 ft Total Volume: 2.609 bbl

Num Fluid Samples: 0

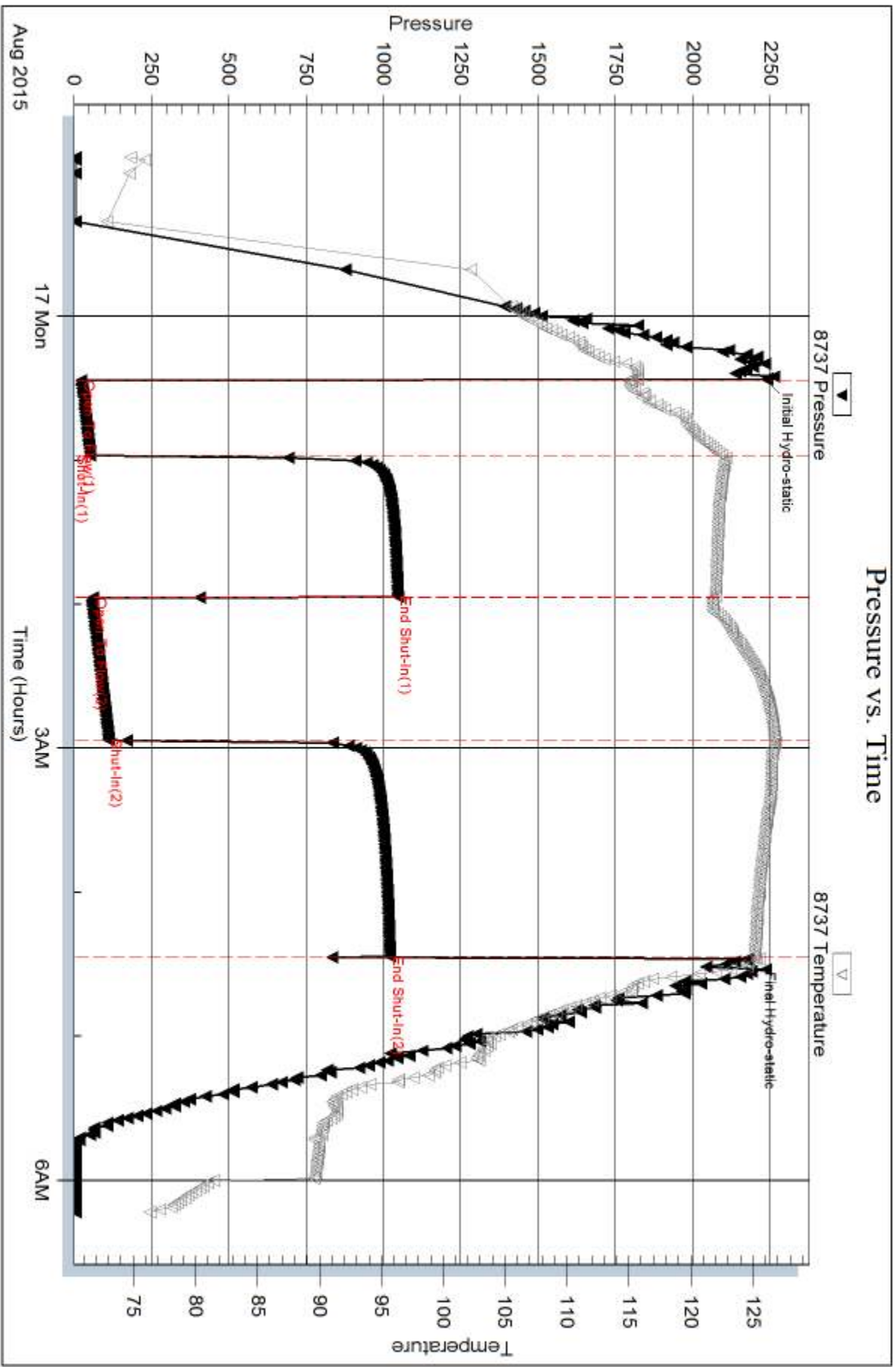
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .30@ 64.4= 31,000 ppm



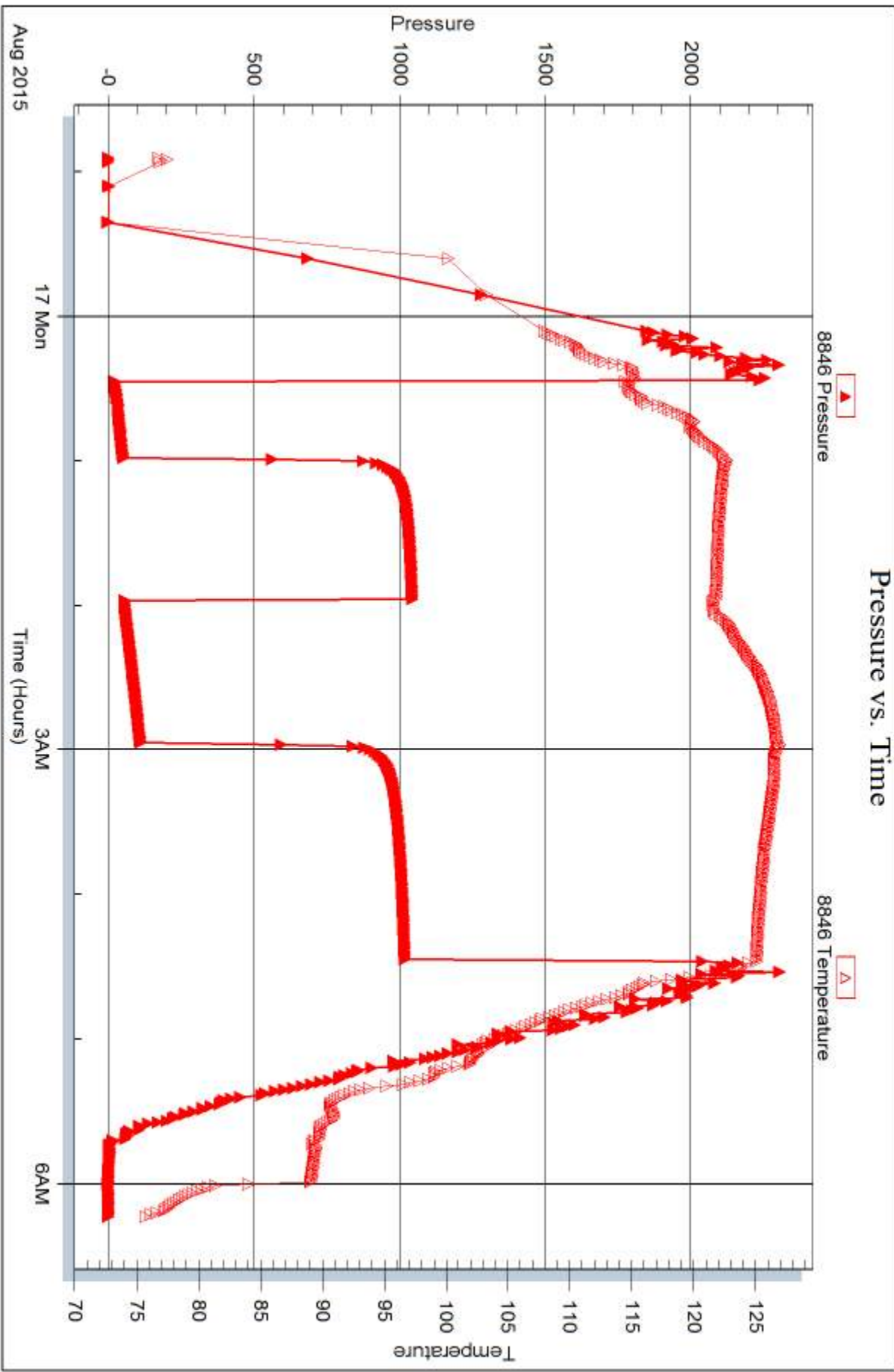
Serial #: 8846

Inside

Eagle Creek Exploration

Vulgamore #1-31

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 64456

Printed: 2015.08.20 @ 14:20:33



DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Exploration**

8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226

ATTN: Gary Gensch

Vulgamore #1-31

31-18s33w Scott,KS

Start Date: 2015.08.17 @ 18:17:15

End Date: 2015.08.17 @ 23:55:45

Job Ticket #: 64457 DST #: 4

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

Printed: 2015.08.20 @ 14:20:06



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Eagle Creek Exploration
8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226
ATTN: Gary Gensch

31-18s33w Scott,KS
Vulgamore #1-31
Job Ticket: 64457 **DST#: 4**
Test Start: 2015.08.17 @ 18:17:15

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:05:45
Time Test Ended: 23:55:45
Interval: **4526.00 ft (KB) To 4556.00 ft (KB) (TVD)**
Total Depth: 4556.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Mike Roberts
Unit No: 65
Reference Elevations: 3055.00 ft (KB)
3045.00 ft (CF)
KB to GR/CF: 10.00 ft

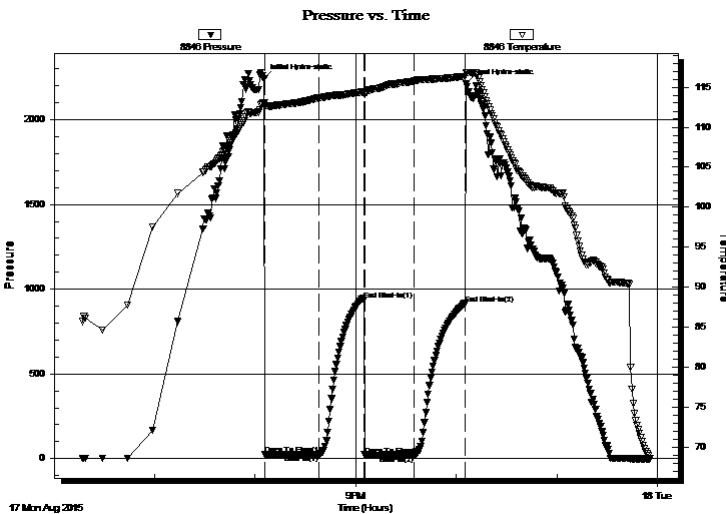
Serial #: 8846

Inside

Press@RunDepth: 21.23 psig @ 4551.00 ft (KB)
Start Date: 2015.08.17 End Date: 2015.08.17
Start Time: 18:17:15 End Time: 23:55:45
Capacity: 8000.00 psig
Last Calib.: 2015.08.18
Time On Btm: 2015.08.17 @ 20:05:30
Time Off Btm: 2015.08.17 @ 22:05:45

TEST COMMENT: IF: Built to weak surface blow
IS: No return blow
FF: No blow
FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2241.98	113.01	Initial Hydro-static
1	22.85	112.58	Open To Flow (1)
33	22.97	113.65	Shut-In(1)
60	936.16	114.38	End Shut-In(1)
60	21.79	114.15	Open To Flow (2)
90	21.23	115.75	Shut-In(2)
120	915.47	116.34	End Shut-In(2)
121	2211.46	116.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100% m	0.14

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Eagle Creek Exploration
8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226
ATTN: Gary Gensch

31-18s33w Scott,KS

Vulgamore #1-31

Job Ticket: 64457

DST#: 4

Test Start: 2015.08.17 @ 18:17:15

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:05:45

Time Test Ended: 23:55:45

Interval: **4526.00 ft (KB) To 4556.00 ft (KB) (TVD)**

Total Depth: 4556.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 65

Reference Elevations: 3055.00 ft (KB)

3045.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8737 Outside

Press@RunDepth: psig @ 4551.00 ft (KB)

Start Date: 2015.08.17

End Date: 2015.08.17

Start Time: 18:17:15

End Time: 23:56:00

Capacity: 8000.00 psig

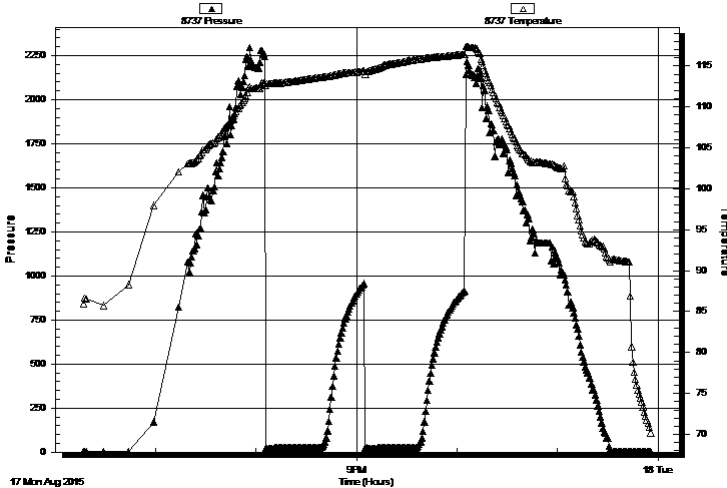
Last Calib.: 2015.08.18

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Built to weak surface blow
IS: No return blow
FF: No blow
FS: No return blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100%m	0.14

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Eagle Creek Exploration

31-18s33w Scott,KS

8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226
ATTN: Gary Gensch

Vulgamore #1-31

Job Ticket: 64457

DST#: 4

Test Start: 2015.08.17 @ 18:17:15

Tool Information

Drill Pipe:	Length: 4533.00 ft	Diameter: 3.80 inches	Volume: 63.59 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 63.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4526.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	51.00 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			4506.00	
Shut In Tool	5.00			4511.00	
Hydraulic tool	5.00			4516.00	
Packer	5.00			4521.00	21.00 Bottom Of Top Packer
Packer	5.00			4526.00	
Stubb	1.00			4527.00	
Perforations	24.00			4551.00	
Recorder	0.00	8846	Inside	4551.00	
Recorder	0.00	8737	Outside	4551.00	
Bullnose	5.00			4556.00	30.00 Bottom Packers & Anchor
Total Tool Length:	51.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Eagle Creek Exploration

31-18s33w Scott,KS

8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226
ATTN: Gary Gensch

Vulgamore #1-31

Job Ticket: 64457

DST#: 4

Test Start: 2015.08.17 @ 18:17:15

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 58.00 sec/qt

Water Loss: 10.35 in³

Resistivity: 0.00 ohm.m

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

0 deg API

Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100%m	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8846

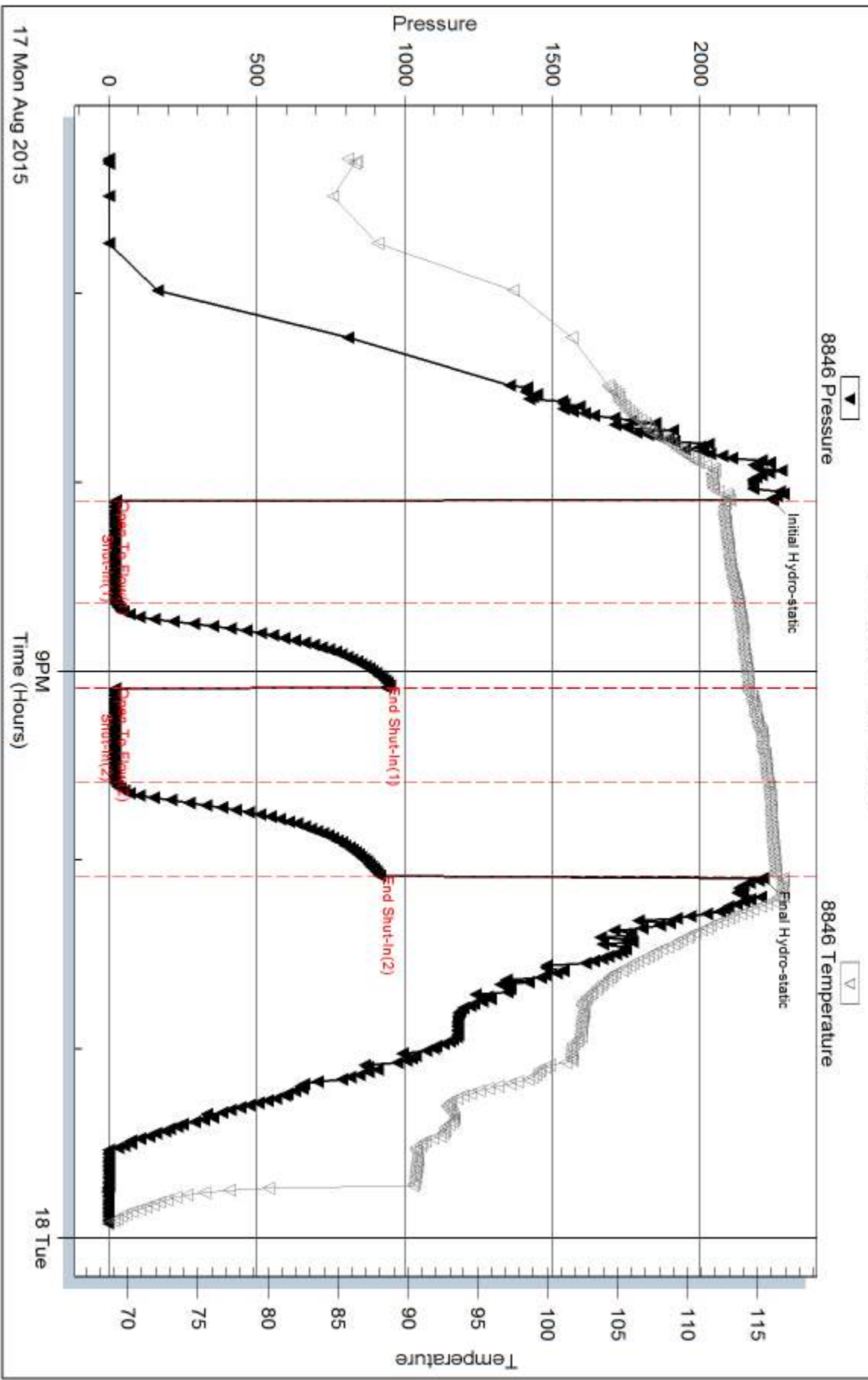
Inside

Eagle Creek Exploration

Vulgamore #1-31

DST Test Number: 4

Pressure vs. Time

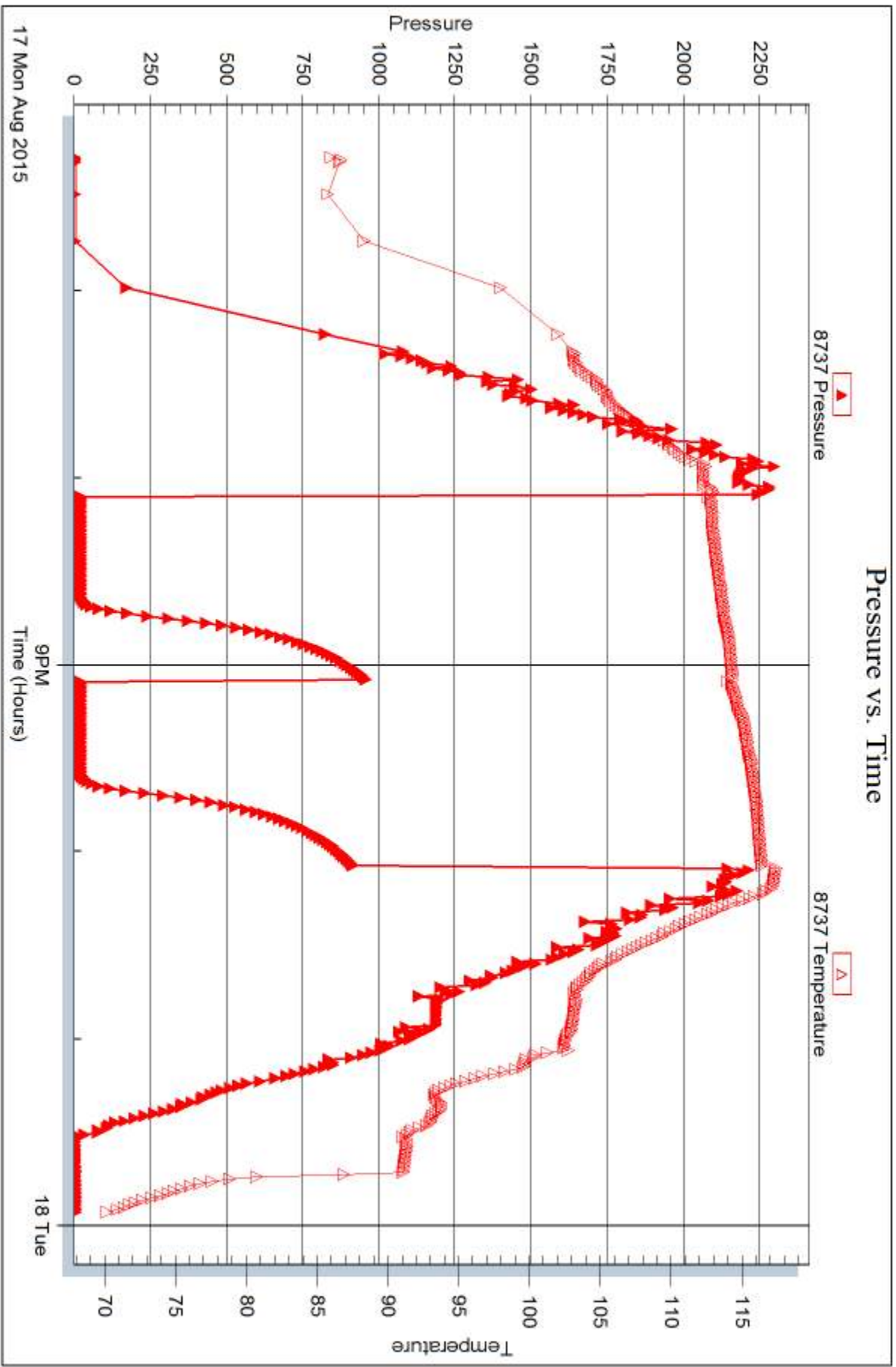


Serial #: 8737

Outside Eagle Creek Exploration

Vulgamore #1-31

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 64457

Printed: 2015.08.20 @ 14:20:06



DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Exploration**

8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226

ATTN: Gary Gensch

Vulgamore #1-31

31-18s33w Scott,KS

Start Date: 2015.08.18 @ 21:43:15

End Date: 2015.08.19 @ 03:22:00

Job Ticket #: 64458 DST #: 5

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

Printed: 2015.08.20 @ 14:16:02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Eagle Creek Exploration
 8100 E. 22nd ST.
 North Building 1500 Suite A
 Wichita KS 67226
 ATTN: Gary Gensch

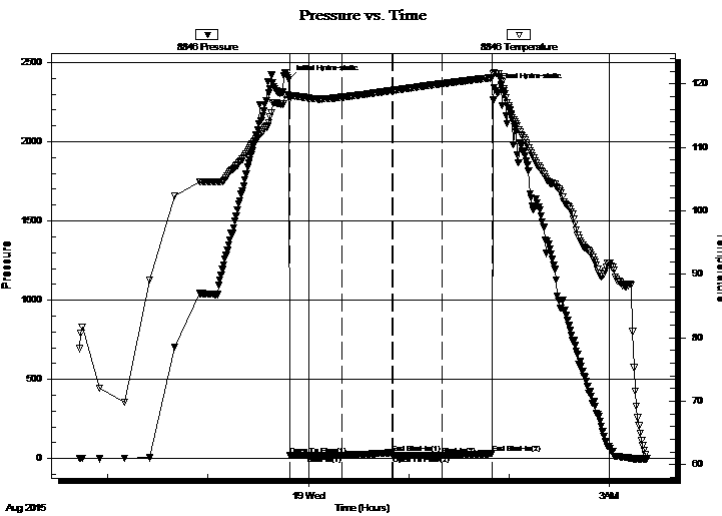
31-18s33w Scott,KS
Vulgamore #1-31
 Job Ticket: 64458 **DST#: 5**
 Test Start: 2015.08.18 @ 21:43:15

GENERAL INFORMATION:

Formation: **Marrow Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:48:45
 Time Test Ended: 03:22:00
 Interval: **4728.00 ft (KB) To 4756.00 ft (KB) (TVD)**
 Total Depth: 4756.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 65
 Reference Elevations: 3055.00 ft (KB)
 3045.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8846 Inside
 Press@RunDepth: 21.74 psig @ 4751.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.08.18 End Date: 2015.08.19 Last Calib.: 2015.08.19
 Start Time: 21:43:15 End Time: 03:22:00 Time On Btm: 2015.08.18 @ 23:48:30
 Time Off Btm: 2015.08.19 @ 01:51:00

TEST COMMENT: IF: Built to weak surface blow
 IS: No return blow
 FF: No blow
 FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2390.51	118.17	Initial Hydro-static
1	21.89	117.53	Open To Flow (1)
32	21.47	117.92	Shut-In(1)
62	36.07	118.98	End Shut-In(1)
62	21.51	118.98	Open To Flow (2)
92	21.74	120.05	Shut-In(2)
122	32.03	121.02	End Shut-In(2)
123	2342.73	121.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100%m	0.01

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Eagle Creek Exploration
8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226
ATTN: Gary Gensch

31-18s33w Scott,KS
Vulgamore #1-31
Job Ticket: 64458 DST#: 5
Test Start: 2015.08.18 @ 21:43:15

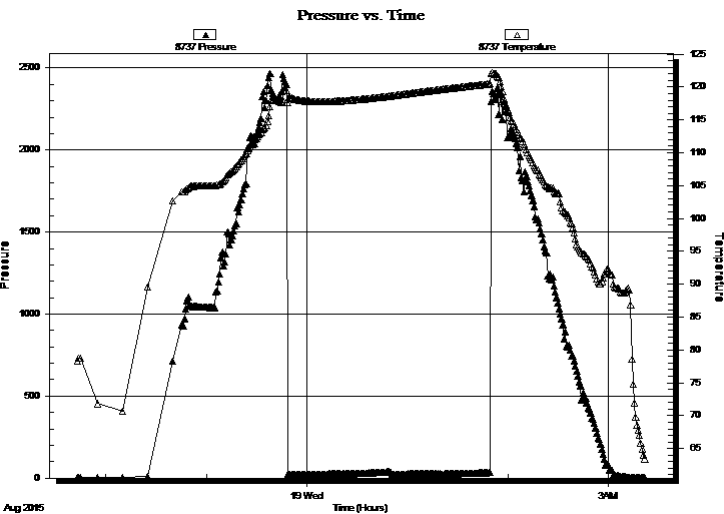
GENERAL INFORMATION:

Formation: **Marrow Sand**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 23:48:45 Tester: Mike Roberts
Time Test Ended: 03:22:00 Unit No: 65
Interval: 4728.00 ft (KB) To 4756.00 ft (KB) (TVD) Reference Elevations: 3055.00 ft (KB)
Total Depth: 4756.00 ft (KB) (TVD) 3045.00 ft (CF)
Hole Diameter: 7.88 inchesHole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8737 Outside

Press@RunDepth: psig @ 4751.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.08.18 End Date: 2015.08.19 Last Calib.: 2015.08.19
Start Time: 21:43:15 End Time: 03:22:00 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Built to weak surface blow
IS: No return blow
FF: No blow
FS: No return blow

**PRESSURE SUMMARY**

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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100%m	0.01

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Eagle Creek Exploration

31-18s33w Scott,KS

8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226
ATTN: Gary Gensch

Vulgamore #1-31

Job Ticket: 64458

DST#: 5

Test Start: 2015.08.18 @ 21:43:15

Tool Information

Drill Pipe:	Length: 4720.00 ft	Diameter: 3.80 inches	Volume: 66.21 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: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 66.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4728.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	49.00 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			4708.00	
Shut In Tool	5.00			4713.00	
Hydraulic tool	5.00			4718.00	
Packer	5.00			4723.00	21.00 Bottom Of Top Packer
Packer	5.00			4728.00	
Stubb	1.00			4729.00	
Perforations	22.00			4751.00	
Recorder	0.00	8846	Inside	4751.00	
Recorder	0.00	8737	Outside	4751.00	
Bullnose	5.00			4756.00	28.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Eagle Creek Exploration

31-18s33w Scott,KS

8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226
ATTN: Gary Gensch

Vulgamore #1-31

Job Ticket: 64458

DST#: 5

Test Start: 2015.08.18 @ 21:43:15

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.36 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud 100%m	0.014

Total Length: 1.00 ft Total Volume: 0.014 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

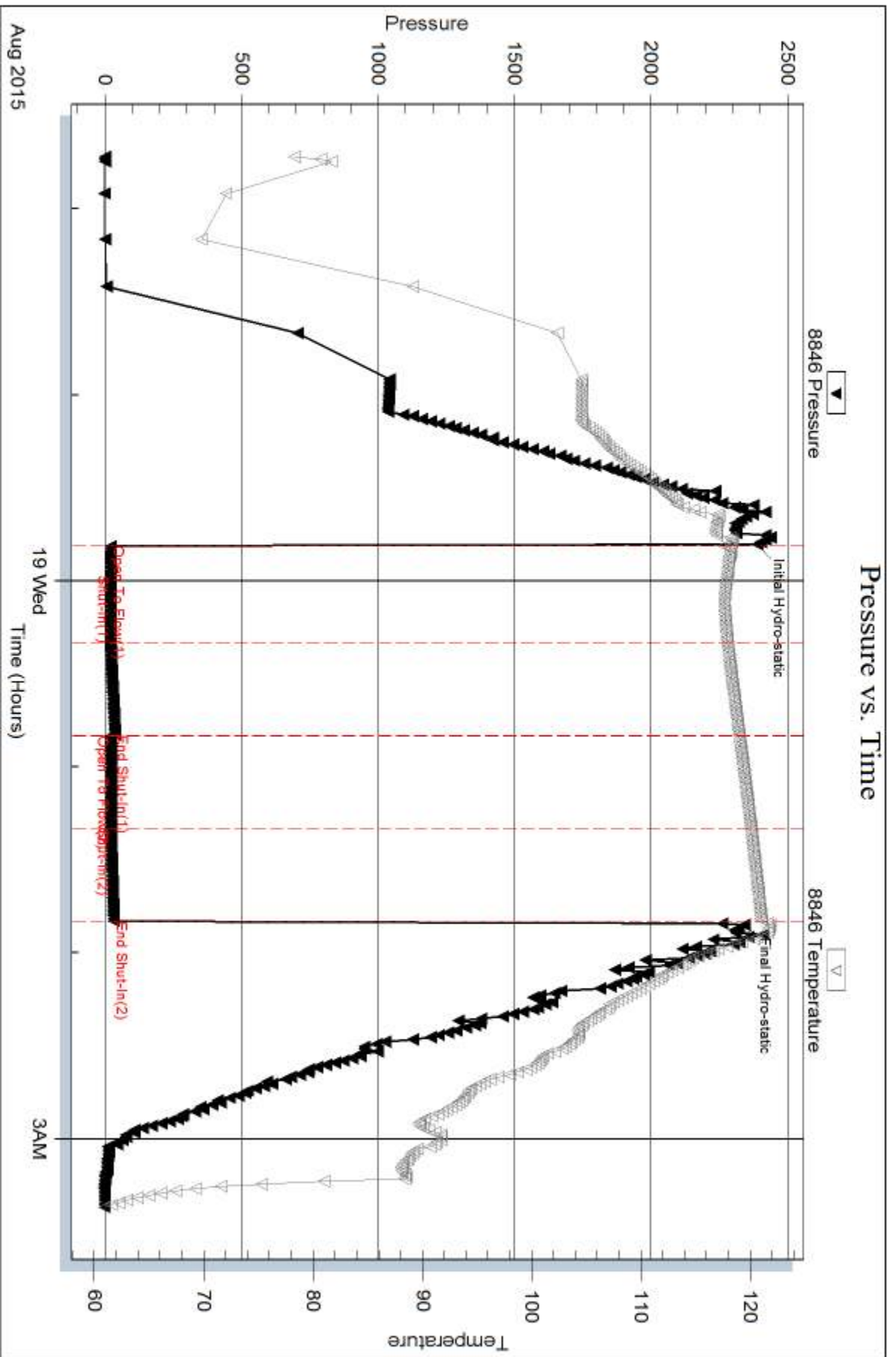
Serial #: 8846

Inside

Eagle Creek Exploration

Vulgamore #1-31

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 64458

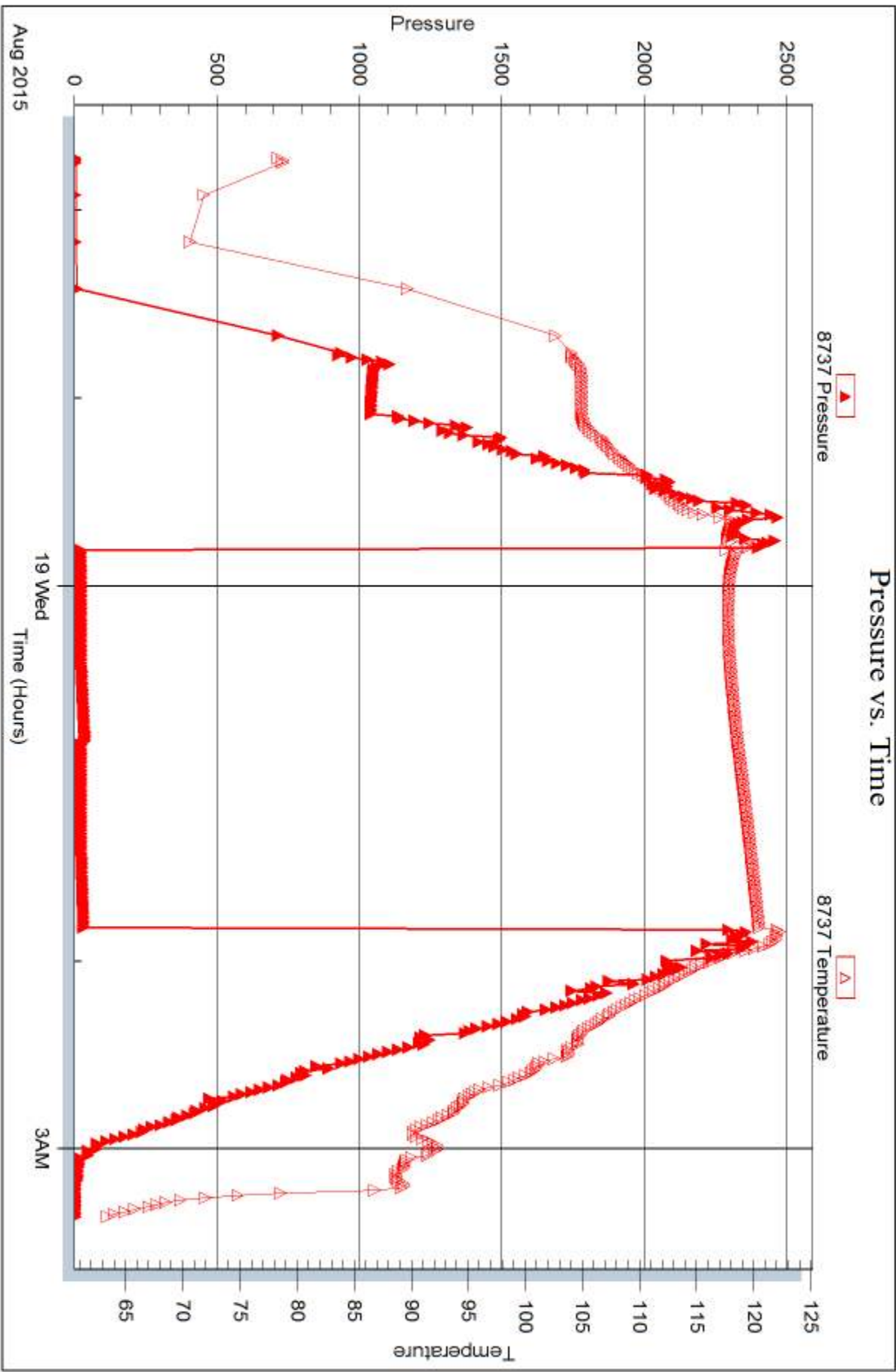
Printed: 2015.08.20 @ 14:16:03

Serial #: 8737

Outside Eagle Creek Exploration

Vulgamore #1-31

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Eagle Creek Exploration**

8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226

ATTN: Gary Gensch

Vulgamore #1-31

31-18s33w Scott,KS

Start Date: 2015.08.19 @ 13:58:15

End Date: 2015.08.19 @ 22:12:45

Job Ticket #: 64459 DST #: 6

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

Printed: 2015.08.20 @ 14:15:28



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Eagle Creek Exploration
8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226
ATTN: Gary Gensch

31-18s33w Scott,KS
Vulgamore #1-31
Job Ticket: 64459 **DST#: 6**
Test Start: 2015.08.19 @ 13:58:15

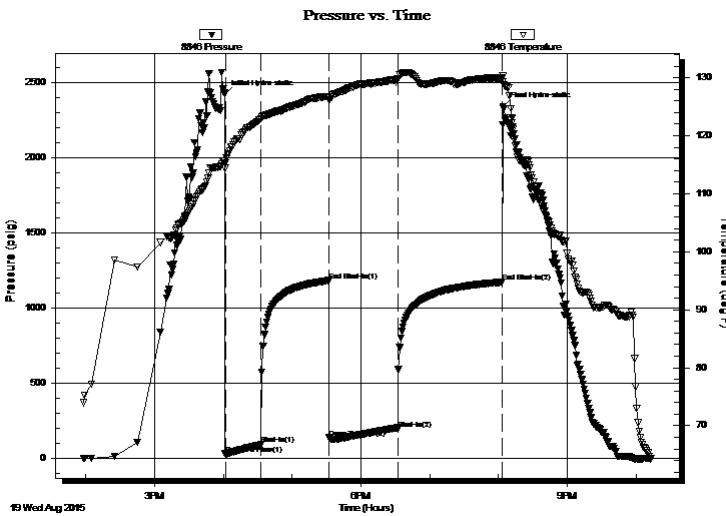
GENERAL INFORMATION:

Formation: **St. Louis B**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:02:00
Time Test Ended: 22:12:45
Interval: **4776.00 ft (KB) To 4815.00 ft (KB) (TVD)**
Total Depth: 4815.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Mike Roberts
Unit No: 65
Reference Elevations: 3055.00 ft (KB)
3045.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8846 Inside
Press@RunDepth: 197.21 psig @ 4810.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.08.19 End Date: 2015.08.19 Last Calib.: 2015.08.19
Start Time: 13:58:15 End Time: 22:12:45 Time On Btm: 2015.08.19 @ 16:01:30
Time Off Btm: 2015.08.19 @ 20:04:15

TEST COMMENT: IF: Built to 10" blow
IS: No return blow
FF: BOB in 37 min.
FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2424.33	115.69	Initial Hydro-static
1	30.17	115.37	Open To Flow (1)
32	91.56	123.03	Shut-In(1)
91	1184.30	126.80	End Shut-In(1)
91	137.53	126.28	Open To Flow (2)
151	197.21	129.76	Shut-In(2)
242	1173.81	129.97	End Shut-In(2)
243	2339.93	129.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
32.00	ocw m 5% o 25%w 75%m	0.45
248.00	ocw m 5%o 15%w 80%m	3.48
186.00	2%o 30%m 68%w	2.61

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Eagle Creek Exploration
8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226
ATTN: Gary Gensch

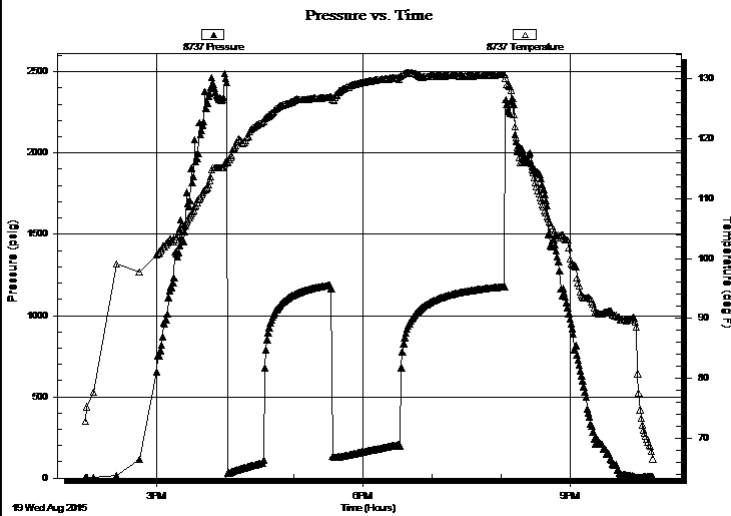
31-18s33w Scott,KS
Vulgamore #1-31
Job Ticket: 64459 **DST#: 6**
Test Start: 2015.08.19 @ 13:58:15

GENERAL INFORMATION:

Formation: **St. Louis B**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 16:02:00 Tester: Mike Roberts
Time Test Ended: 22:12:45 Unit No: 65
Interval: 4776.00 ft (KB) To 4815.00 ft (KB) (TVD) Reference Elevations: 3055.00 ft (KB)
Total Depth: 4815.00 ft (KB) (TVD) 3045.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8737 Outside
Press@RunDepth: psig @ 4810.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.08.19 End Date: 2015.08.19 Last Calib.: 2015.08.19
Start Time: 13:58:15 End Time: 22:12:45 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Built to 10" blow
IS: No return blow
FF: BOB in 37 min.
FS: No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
32.00	ocw m 5% o 25%w 75%m	0.45
248.00	ocw m 5%o 15%w 80%m	3.48
186.00	2%o 30%m 68%w	2.61

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Eagle Creek Exploration

31-18s33w Scott,KS

8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226
ATTN: Gary Gensch

Vulgamore #1-31

Job Ticket: 64459

DST#: 6

Test Start: 2015.08.19 @ 13:58:15

Tool Information

Drill Pipe:	Length: 4772.00 ft	Diameter: 3.80 inches	Volume: 66.94 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: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 66.94 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4776.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 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			4761.00	
Shut In Tool	5.00			4766.00	
Hydraulic tool	5.00			4771.00	
Packer	5.00			4776.00	16.00 Bottom Of Top Packer
Packer - Shale	0.00			4776.00	
Stubb	1.00			4777.00	
Perforations	33.00			4810.00	
Recorder	0.00	8846	Inside	4810.00	
Recorder	0.00	8737	Outside	4810.00	
Bullnose	5.00			4815.00	39.00 Anchor Tool
Total Tool Length:	55.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Eagle Creek Exploration

31-18s33w Scott,KS

8100 E. 22nd ST.
North Building 1500 Suite A
Wichita KS 67226
ATTN: Gary Gensch

Vulgamore #1-31

Job Ticket: 64459

DST#: 6

Test Start: 2015.08.19 @ 13:58:15

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 10.37 in³

Resistivity: 0.00 ohm.m

Salinity: 7600.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

0 deg API

Water Salinity: 32000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
32.00	ocw m 5% o 25%w 75%m	0.449
248.00	ocw m 5%o 15%w 80%m	3.479
186.00	2%o 30%m 68%w	2.609

Total Length: 466.00 ft Total Volume: 6.537 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .34@ 72.1*= 32,000 ppm

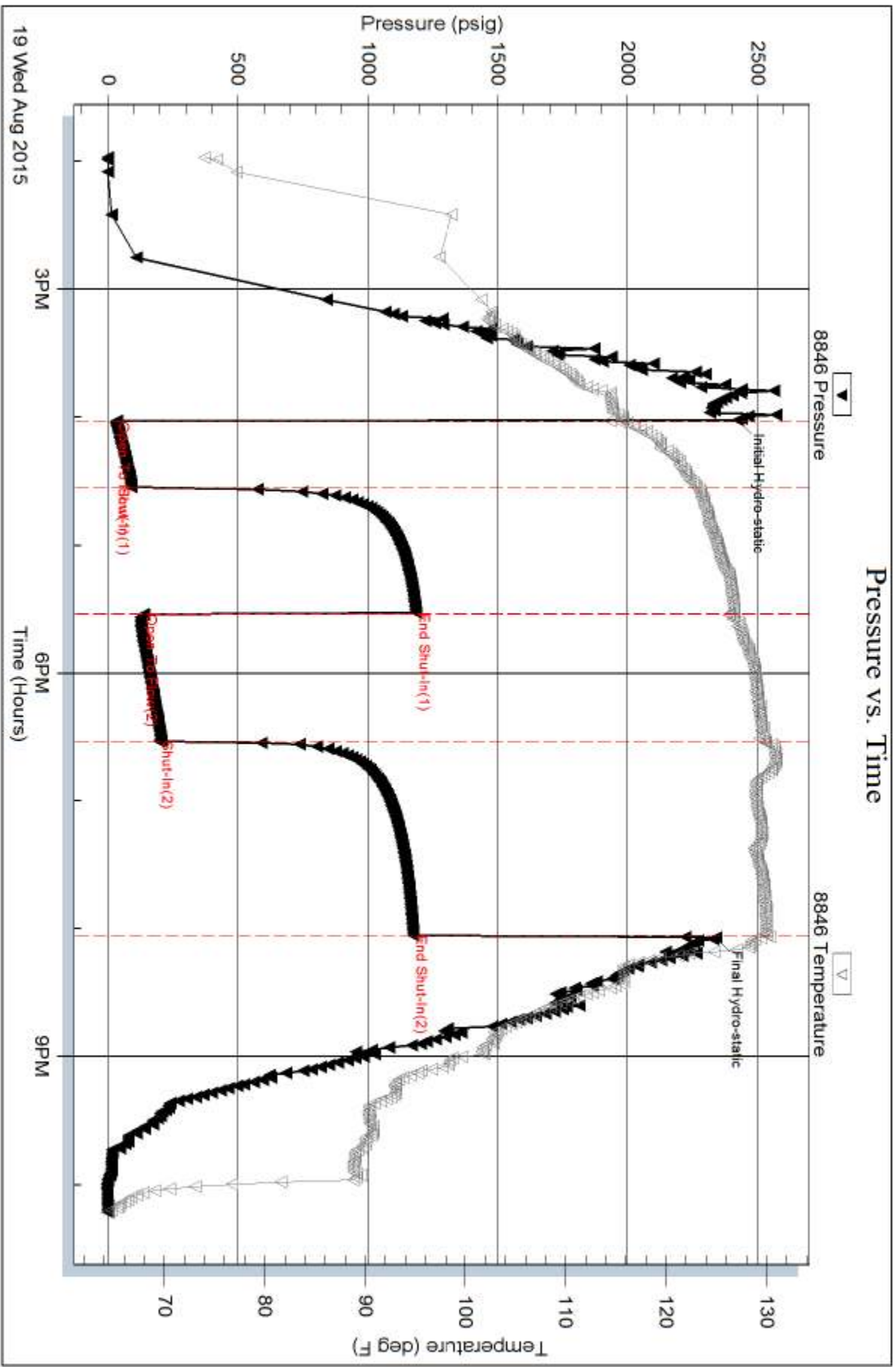
Serial #: 8846

Inside

Eagle Creek Exploration

Vulgamore #1-31

DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 64459

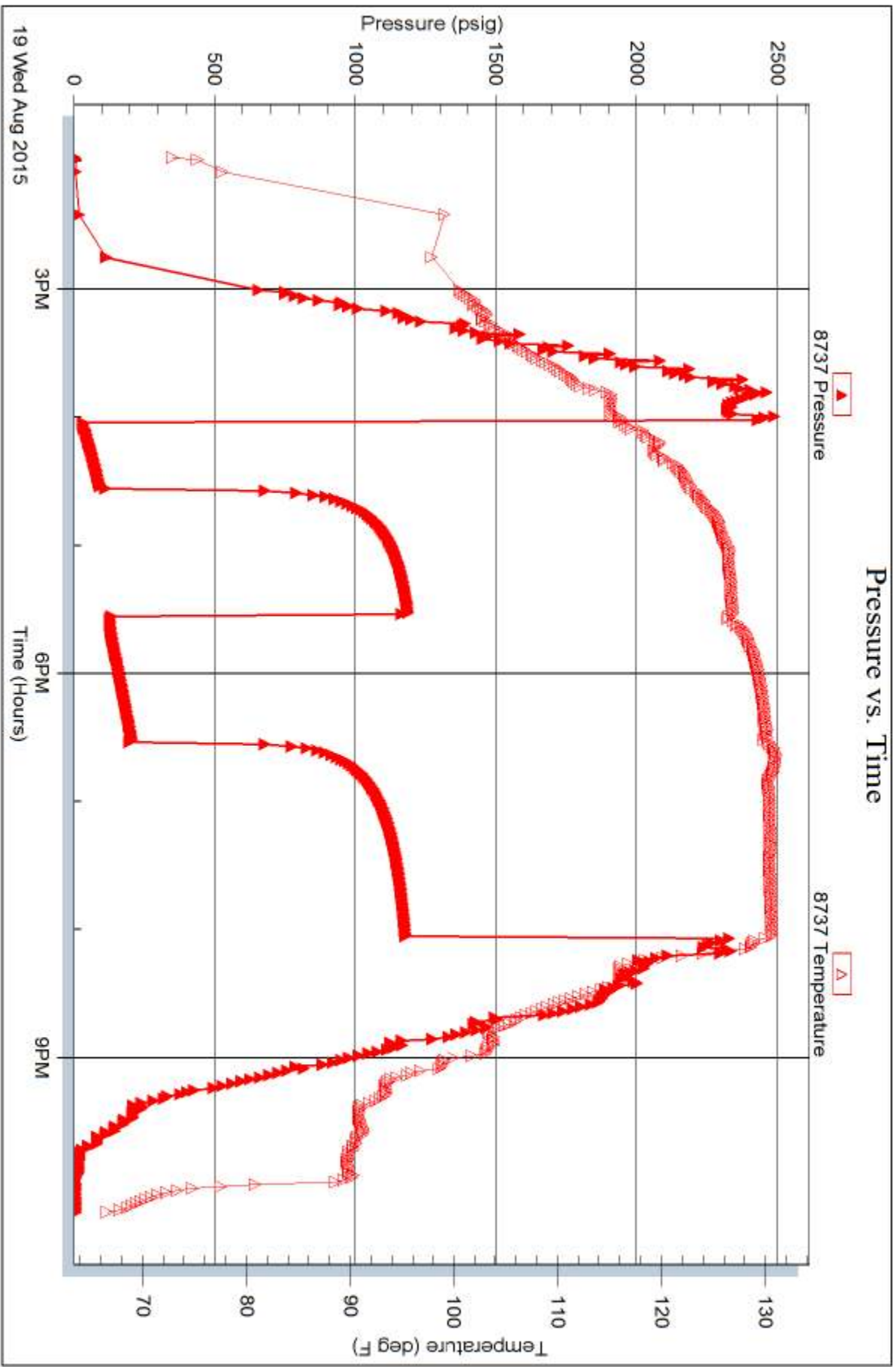
Printed: 2015.08.20 @ 14:15:29

Serial #: 8737

Outside Eagle Creek Exploration

Vulgamore #1-31

DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 64459

Printed: 2015.08.20 @ 14:15:29



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64454**

Well Name & No. Vulgamore 1-31 Test No. 1 Date 8-14-15
 Company Eagle Creek Exploration Elevation 3055 KB 3045 GL
 Address 8100 E 22nd ST N. BLDG 1500 Suite A Wichita KS 67226
 Co. Rep / Geo. Gary Gensch Rig Southwind 8
 Location: Sec. 31 Twp. 18S Rge. 33W Co. Scott State KS

Interval Tested 4166-4243 Zone Tested H-I
 Anchor Length 77 Drill Pipe Run 4171 Mud Wt. 9.3
 Top Packer Depth 4161 Drill Collars Run 0 Vis 54
 Bottom Packer Depth 4166 Wt. Pipe Run 0 WL 8.8
 Total Depth 4243 Chlorides 3000 ppm System LCM 2
 Blow Description IF: Built to 2" Blow
FS: NO Return Blow
FF: Built to 2" Blow
FS: NO Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>Feet of MUP with oil spots</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 90 BHT 117 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2105</u>	<input checked="" type="checkbox"/> Test <u>\$1150.00</u>	T-On Location <u>21:50</u>
(B) First Initial Flow <u>57</u>	<input checked="" type="checkbox"/> Jars <u>\$250.00</u>	T-Started <u>23:49</u>
(C) First Final Flow <u>69</u>	<input checked="" type="checkbox"/> Safety Joint <u>\$75.00</u>	T-Open <u>02:29</u>
(D) Initial Shut-In <u>1077</u>	<input checked="" type="checkbox"/> Circ Sub <u>NO</u>	T-Pulled <u>05:29</u>
(E) Second Initial Flow <u>76</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>07:19</u>
(F) Second Final Flow <u>93</u>	<input checked="" type="checkbox"/> Mileage <u>22 RT \$22.00</u>	Comments _____
(G) Final Shut-In <u>1078</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2157</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>45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1497</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>\$1497.00</u>	

Approved By _____ Our Representative Mike Roberts

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64455**

Well Name & No. Vulgamore 1-31 Test No. 2 Date 8-15-15
 Company Eagle Creek Exploration Elevation 3055 KB 3045 GL
 Address 8100 E 22nd ST N. BLDG 1500 Suite A Wichita KS 67226
 Co. Rep / Geo Gary Gensch Rig Southwind 8
 Location: Sec. 31 Twp. 18s Rge. 33w Co. Scott State KS

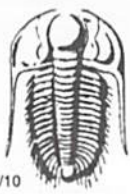
Interval Tested 4302-4321 Zone Tested K
 Anchor Length 19 Drill Pipe Run 15 Mud Wt. 9.3
 Top Packer Depth 4297 Drill Collars Run 0 Vis 55
 Bottom Packer Depth 4302 Wt. Pipe Run 0 WL 8.0
 Total Depth 4321 Chlorides 3500 ppm System LCM 2
 Blow Description IF: BOB in 7 Min
IS: No Return Blow
FF: BOB in 8 Min
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>77</u>	<u>OCWM</u>	<u>1</u>	<u>39</u>	<u>60</u>	
<u>248</u>	<u>MCW</u>		<u>50</u>	<u>50</u>	
<u>1039</u>	<u>SW</u>		<u>100</u>		

Rec Total 1364 BHT 125 Gravity — API RW 1.29 @ 74.7°F Chlorides 24000 ppm
 (A) Initial Hydrostatic 2117 Test \$1150.00 T-On Location ~~16:00~~
 (B) First Initial Flow 35 Jars — T-Started 16:42
 (C) First Final Flow 261 Safety Joint — T-Open 18:30
 (D) Initial Shut-In 1114 Circ Sub NC T-Pulled 22:30
 (E) Second Initial Flow 275 Hourly Standby — T-Out 00:34
 (F) Second Final Flow 589 Mileage 22RT \$22.00 Comments —
 (G) Final Shut-In 1111 Sampler —
 (H) Final Hydrostatic 2096 Straddle —
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Initial Open 30 Extra Packer
 Initial Shut-In 60 Extra Recorder
 Final Flow 60 Day Standby
 Final Shut-In 90 Accessibility
 Sub Total \$1172.00/- Sub Total 0
 Total 1172
 MP/DST Disc't —

Approved By _____ Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64456**

Well Name & No. Vulgamore 1-31 Test No. 3 Date 8-16-15
 Company Eagle Creek Exploration Elevation 3055 KB 3045 GL
 Address 8100 E 22ND ST N. BLDG 1500 Suite A Wichita KS 67226
 Co. Rep / Geo. Gary Gensch Rig Southwind 8
 Location: Sec. 31 Twp. 18s Rge. 33w Co. Scott State KS

Interval Tested 4468-4502 Zone Tested Marmaton C
 Anchor Length 34 Drill Pipe Run 4455 Mud Wt. 9.3
 Top Packer Depth 4463 Drill Collars Run 0 Vis 57
 Bottom Packer Depth 4468 Wt. Pipe Run 0 WL 8.0
 Total Depth 4502 Chlorides 3300 ppm System LCM 2
 Blow Description IF: Built to 5" Blow
FS: No Return Blow
FF: Built to 8" Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>WCM</u>		<u>10</u>	<u>90</u>	
<u>124</u>	<u>MCW</u>		<u>80</u>	<u>20</u>	

Rec Total 186 BHT 126 Gravity — API RW 130 @ 64.4 °F Chlorides 31000 ppm
 (A) Initial Hydrostatic 2235 Test \$1150.00 T-On Location 20:31
 (B) First Initial Flow 23 Jars \$250.00 T-Started 22:54
 (C) First Final Flow 53 Safety Joint \$75.00 T-Open 12:27
 (D) Initial Shut-In 1045 Circ Sub NC T-Pulled 04:27
 (E) Second Initial Flow 62 Hourly Standby _____ T-Out 06:14
 (F) Second Final Flow 111 Mileage 22RT \$22.00 Comments Short Trip
 (G) Final Shut-In 1019 Sampler _____ Tight-run Jars &
 (H) Final Hydrostatic 2179 Straddle _____ Joint on DST #3 per Gary
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Shale Packer _____
 Initial Shut-In 60 Extra Packer _____
 Final Flow 60 Extra Recorder _____
 Final Shut-In 90 Day Standby _____
 Accessibility _____
 Sub Total \$1492.00/- Sub Total 0
 Total 1497 MP/DST Disc't _____

Approved By _____

Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64457**

Well Name & No. Vulgamoxe 1-31 Test No. 4 Date 8-17-15
 Company Eagle Creek Exploration Elevation 3055 KB 3045 GL
 Address 8100 E 22nd St N. BLDG 1500 Suite A Wichita KS 67226
 Co. Rep / Geo. Gary Gensch Rig Southwind 8
 Location: Sec. 31 Twp. 18s Rge. 33W Co. SCOTT State KS

Interval Tested 4526-4556 Zone Tested Pawnee
 Anchor Length 30 Drill Pipe Run 4533 Mud Wt. 9.3
 Top Packer Depth 4521 Drill Collars Run Ø Vis 58
 Bottom Packer Depth 4526 Wt. Pipe Run Ø WL 10.4
 Total Depth 4556 Chlorides 5000 ppm System LCM 2
 Blow Description IF: Built to Weak Surface Blow
IS: No Return Blow
FF: No Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</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 10 BHT ~~117~~ 117 Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic <u>2241</u>	<input checked="" type="checkbox"/> Test <u>\$1150.00</u>	T-On Location <u>17:45</u>
(B) First Initial Flow <u>22</u>	<input type="checkbox"/> Jars <u> </u>	T-Started <u>18:17</u>
(C) First Final Flow <u>22</u>	<input type="checkbox"/> Safety Joint <u> </u>	T-Open <u>20:05</u>
(D) Initial Shut-In <u>936</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>22:05</u>
(E) Second Initial Flow <u>21</u>	<input type="checkbox"/> Hourly Standby <u> </u>	T-Out <u>23:55</u>
(F) Second Final Flow <u>21</u>	<input checked="" type="checkbox"/> Mileage <u>22RT #22.00</u>	Comments <u> </u>
(G) Final Shut-In <u>915</u>	<input type="checkbox"/> Sampler <u> </u>	<input type="checkbox"/> Ruined Shale Packer <u> </u>
(H) Final Hydrostatic <u>2211</u>	<input type="checkbox"/> Straddle <u> </u>	<input type="checkbox"/> Ruined Packer <u> </u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u> </u>	<input type="checkbox"/> Extra Copies <u> </u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer <u> </u>	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder <u> </u>	Total <u>1172</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby <u> </u>	MP/DST Disc't <u> </u>
	<input type="checkbox"/> Accessibility <u> </u>	
	Sub Total <u>\$1172.00</u>	

Approved By Our Representative Mike Rohlf

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64458**

Well Name & No. Vulgamore 1-31 Test No. 5 Date 8-18-15
 Company Eagle Creek Exploration Elevation 3055 KB 3045 GL
 Address 8100 E 22nd ST. N BLDG 1500 suite A Wichita KS 67226
 Co. Rep / Geo. Gary Gensch Rig Southwind 8
 Location: Sec. 31 Twp. 18s Rge. 33w Co. SCOTT State KS

Interval Tested 4728-4756 Zone Tested Marrow Sand
 Anchor Length 28 Drill Pipe Run 4720 Mud Wt. 9.4
 Top Packer Depth 4723 Drill Collars Run ∅ Vis 48
 Bottom Packer Depth 4728 Wt. Pipe Run ∅ WL 10.4
 Total Depth 4756 Chlorides 6400 ppm System LCM 2
 Blow Description IF: Built to weak surface Blow
IS: No Return Blow
FF: No Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</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 1 BHT 121 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2390 Test \$1150.00 T-On Location 21:00
 (B) First Initial Flow 21 Jars — T-Started 21:43
 (C) First Final Flow 21 Safety Joint — T-Open 23:49
 (D) Initial Shut-In 36 Circ Sub NC T-Pulled 01:49
 (E) Second Initial Flow 21 Hourly Standby — T-Out 03:22
 (F) Second Final Flow 21 Mileage 22RT \$22.00/- Comments —
 (G) Final Shut-In 32 Sampler —
 (H) Final Hydrostatic 2342 Straddle —
 Shale Packer —
 Extra Packer —
 Extra Recorder —
 Day Standby —
 Accessibility —
 Sub Total \$1172.00/-

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

Ruined Shale Packer —
 Ruined Packer —
 Extra Copies —
 Sub Total 0
 Total 1172
 MP/DST Disc't —

Approved By _____ Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64459**

Well Name & No. Vulgamore 1-31 Test No. 6 Date 8-19-15
 Company Eagle Creek Exploration Elevation 3055 KB 3045 GL
 Address 900 E 22ND ST N BLDG 1500 Suite A Wichita KS 67226
 Co. Rep / Geo. Gary Gensch Rig Southwind 8
 Location: Sec. 31 Twp. 18S Rge. 33W Co. SCOTT State KS

Interval Tested 4776-4815 Zone Tested St. Louis B
 Anchor Length 39 Drill Pipe Run 4772 Mud Wt. 9.5
 Top Packer Depth 4771 Drill Collars Run 0 Vis 60
 Bottom Packer Depth 4776 Wt. Pipe Run 6 WL 10.4
 Total Depth 4815 Chlorides 7600 ppm System LCM 2

Blow Description IF: Built to 10" Blow
IS: No Return Blow
FF: BOB in 37 Min
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>32</u>	<u>OCW M</u>	<u>5</u>	<u>25</u>	<u>75</u>	<u>0</u>
<u>248</u>	<u>OCW M</u>	<u>5</u>	<u>15</u>	<u>80</u>	<u>0</u>
<u>186</u>	<u>OCM W</u>	<u>2</u>	<u>68</u>	<u>30</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 466 BHT 130 Gravity — API RW 34 @ 72.1° F Chlorides 32,000 ppm
 (A) Initial Hydrostatic 2424 Test \$1150.00 T-On Location 13:30
 (B) First Initial Flow 30 Jars — T-Started 13:58
 (C) First Final Flow 91 Safety Joint — T-Open 16:02
 (D) Initial Shut-In 1184 Circ Sub NC T-Pulled 20:02
 (E) Second Initial Flow 137 Hourly Standby — T-Out 22:12
 (F) Second Final Flow 197 Mileage 22RT = \$22.00/RT Comments Mileage x 2
 (G) Final Shut-In 1173 Sampler — Load Tools 8-20-15
 (H) Final Hydrostatic 2329 Straddle — 08:30
 Shale Packer \$250.00 Ruined Shale Packer —
 Extra Packer — Ruined Packer —
 Extra Recorder — Sub Total 0
 Day Standby 1444 Total 1444
 Accessibility — MP/DST Disc't —
 Sub Total \$1422.00/-

Approved By _____ Our Representative Mike Roberts

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

3830

3729
INVOICE # 805295

TICKET NUMBER 49475
LOCATION Oakley, KS
FOREMAN Kelly Gabel

FIELD TICKET & TREATMENT REPORT

CEMENT

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-8-15	2776	Vulgamore 1-31	31	18	33	Scott
CUSTOMER <u>Snake Creek</u>			TRUCK #			
MAILING ADDRESS			DRIVER		TRUCK #	
CITY			DRIVER		TRUCK #	
STATE			DRIVER		TRUCK #	
ZIP CODE			DRIVER		TRUCK #	

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 265 CASING SIZE & WEIGHT 8 5/8 24 #
 CASING DEPTH 265 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14 # SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 15 1/2 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting, rigged up on southwind #8, broke circulation, mixed 200SKS Com 3%cc 2%gel, displaced with 15 1/2 bbl water, shut in.

Cement did not circulate

Approx 5 bbl top it

Thank You Kelly & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	1500.00
CE0002	50 mi	MILEAGE	7.15	357.50
CE0710	9.4 ton	Ton mileage delivery	1.75	822.50
CC5871	200SKS	Surface Blend II (Com 3%cc 2%gel)	23.00	4600.00
			<u>Sub</u>	<u>7280.00</u>
			<u>less 3070</u>	<u>2184.00</u>
			<u>total</u>	<u>5096.00</u>
			SALES TAX	273.76
			ESTIMATED TOTAL	5369.76

Ravin 3737

AUTHORIZATION William J. Adams TITLE _____

DATE 8-8-15

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



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

FIELD TICKET & TREATMENT REPORT
CEMENT

TICKET NUMBER 49481
LOCATION Oakley, KS
FOREMAN Kelly Gabel
INVOICE # 805464
KS

~~3877~~ 3977
3897

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-21-15	2776	Vulgamore 1-31	31	18	33	Scott
CUSTOMER Eagle Creek			Scott City			
MAILING ADDRESS			W+D Falcon Rd			
CITY			2 1/2 S E into			
STATE			ZIP CODE			
TRUCK #		DRIVER		TRUCK #		DRIVER
731		Jeremy				
515		Lance				
640						

JOB TYPE PTA HOLE SIZE 7 7/8 HOLE DEPTH 4920 CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting rigged up on southwind #8, mixed cement & displaced as ordered.
50 @ 2340
80 @ 1350
40 @ 660
50 @ 300
20 @ 60/wiper plug
30 PH
20 MH
 Thank You
 Kelly & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	1500.00
CE0002	50 mi	MILEAGE	7.15	357.50
CE0710	12.417	Ton mileage delivery	17.5	1091.12
CC5829	290 SKS	Lite weight Blend II (60/40 470 gel)	16.00	4640.00
CC6075	73#	Celloflake	2.00	146.00
CP8228	1	8 5/8 wooden Plug	165.00	165.00
			540	7899.62
			Lev 230970	2369.89
			TOTAL	5529.73
			SALES TAX	294.58
			ESTIMATED TOTAL	5824.31

Ravin 3737

AUTHORIZATION William Adams TITLE TP DATE 8-21-15

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