



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1230156
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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

1230156

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

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

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

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

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

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

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

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

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

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

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

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

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	Cooper 1-12
Doc ID	1230156

All Electric Logs Run

Dual Induction
Dual Compensated Porosity
Microresistivity
Borehole Compensated Sonic Log

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	Cooper 1-12
Doc ID	1230156

Tops

Name	Top	Datum
Anhydrite	2652	355
Howard	3715	-708
Topeka	3765	-758
Heebner	3947	-940
Toronto	3974	-967
Lansing	3990	-983
Base KC	4240	-1233
Pawnee	4320	-1313
Cherokee	4416	-1409
Mississippian	4556	-1549



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

P.O. Box 47
Great Bend KS 67530

ATTN: Brad Rine

Cooper #1-12

12-7s-32w Thomas,KS

Start Date: 2014.10.25 @ 23:25:00

End Date: 2014.10.26 @ 04:16:30

Job Ticket #: 58341 DST #: 1

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

Printed: 2014.10.31 @ 11:58:38



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 P.O. Box 47
 Great Bend KS 67530
 ATTN: Brad Rine

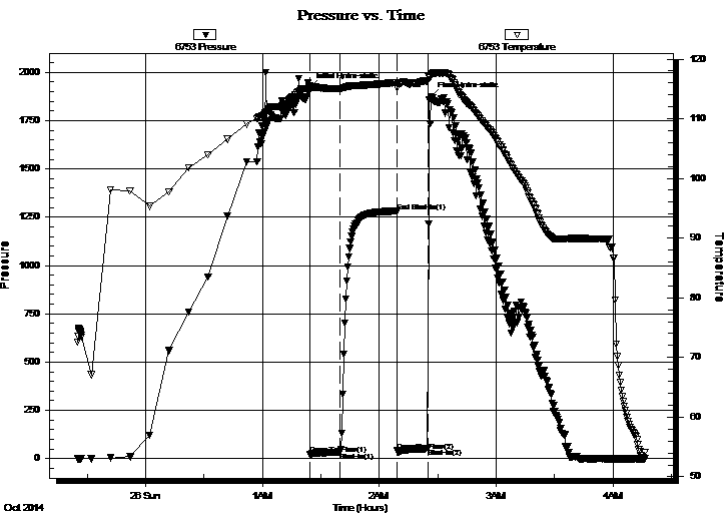
12-7s-32w Thomas,KS
Cooper #1-12
 Job Ticket: 58341 **DST#: 1**
 Test Start: 2014.10.25 @ 23:25:00

GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:24:30
 Time Test Ended: 04:16:30
 Interval: **3943.00 ft (KB) To 3985.00 ft (KB) (TVD)**
 Total Depth: 3985.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Royal Fisher
 Unit No: 54
 Reference Elevations: 3007.00 ft (KB)
 2996.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6753 Inside
 Press@RunDepth: 33.22 psig @ 3944.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.10.25 End Date: 2014.10.26 Last Calib.: 2014.10.26
 Start Time: 23:25:05 End Time: 04:16:29 Time On Btm: 2014.10.26 @ 01:24:15
 Time Off Btm: 2014.10.26 @ 02:26:30

TEST COMMENT: 15 - IF - Surface blow slowly built to 1/2"
 30 - ISI - No Return
 15 - FF - No Surface blow , pulled tool after final open



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1923.70	115.51	Initial Hydro-static
1	21.29	114.96	Open To Flow (1)
16	33.22	115.03	Shut-In(1)
45	1277.59	116.07	End Shut-In(1)
45	39.92	115.25	Open To Flow (2)
61	51.91	116.22	Shut-In(2)
63	1876.39	117.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OSM - 100M - Oil Spots	0.07

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
P.O. Box 47
Great Bend KS 67530
ATTN: Brad Rine

12-7s-32w Thomas,KS
Cooper #1-12
Job Ticket: 58341 **DST#: 1**
Test Start: 2014.10.25 @ 23:25:00

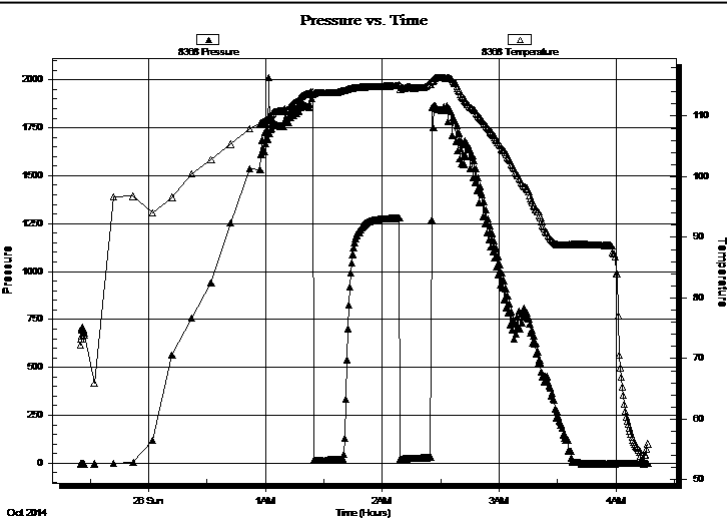
GENERAL INFORMATION:

Formation: **Toronto**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:24:30
Time Test Ended: 04:16:30
Interval: 3943.00 ft (KB) To 3985.00 ft (KB) (TVD)
Total Depth: 3985.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Royal Fisher
Unit No: 54
Reference Elevations: 3007.00 ft (KB)
2996.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8368

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig
Start Date: 2014.10.25 End Date: 2014.10.26 Last Calib.: 2014.10.26
Start Time: 23:25:05 End Time: 04:16:29 Time On Btm:
Time Off Btm:

TEST COMMENT: 15 - IF - Surface blow slowly built to 1/2"
30 - ISI - No Return
15 - FF - No Surface blow , pulled tool after final open



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OSM - 100M - Oil Spots	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

P.O. Box 47
Great Bend KS 67530

Cooper #1-12

Job Ticket: 58341

DST#: 1

ATTN: Brad Rine

Test Start: 2014.10.25 @ 23:25:00

Tool Information

Drill Pipe:	Length: 3693.77 ft	Diameter: 3.80 inches	Volume: 51.81 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: 233.34 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose:	78000.00 lb
			<u>Total Volume: 52.96 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.11 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	3943.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	42.00 ft				
Tool Length:	69.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3921.00	
Hydraulic tool	5.00			3926.00	
Jars	5.00			3931.00	
Safety Joint	3.00			3934.00	
Packer	4.00			3938.00	27.00 Bottom Of Top Packer
Packer	5.00			3943.00	
Stubb	1.00			3944.00	
Recorder	0.00	6753	Inside	3944.00	
Recorder	0.00	8368	Outside	3944.00	
Perforations	37.00			3981.00	
Bullnose	4.00			3985.00	42.00 Bottom Packers & Anchor

Total Tool Length: 69.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

P.O. Box 47
Great Bend KS 67530

Cooper #1-12

Job Ticket: 58341

DST#: 1

ATTN: Brad Rine

Test Start: 2014.10.25 @ 23:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OSM - 100M - Oil Spots	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

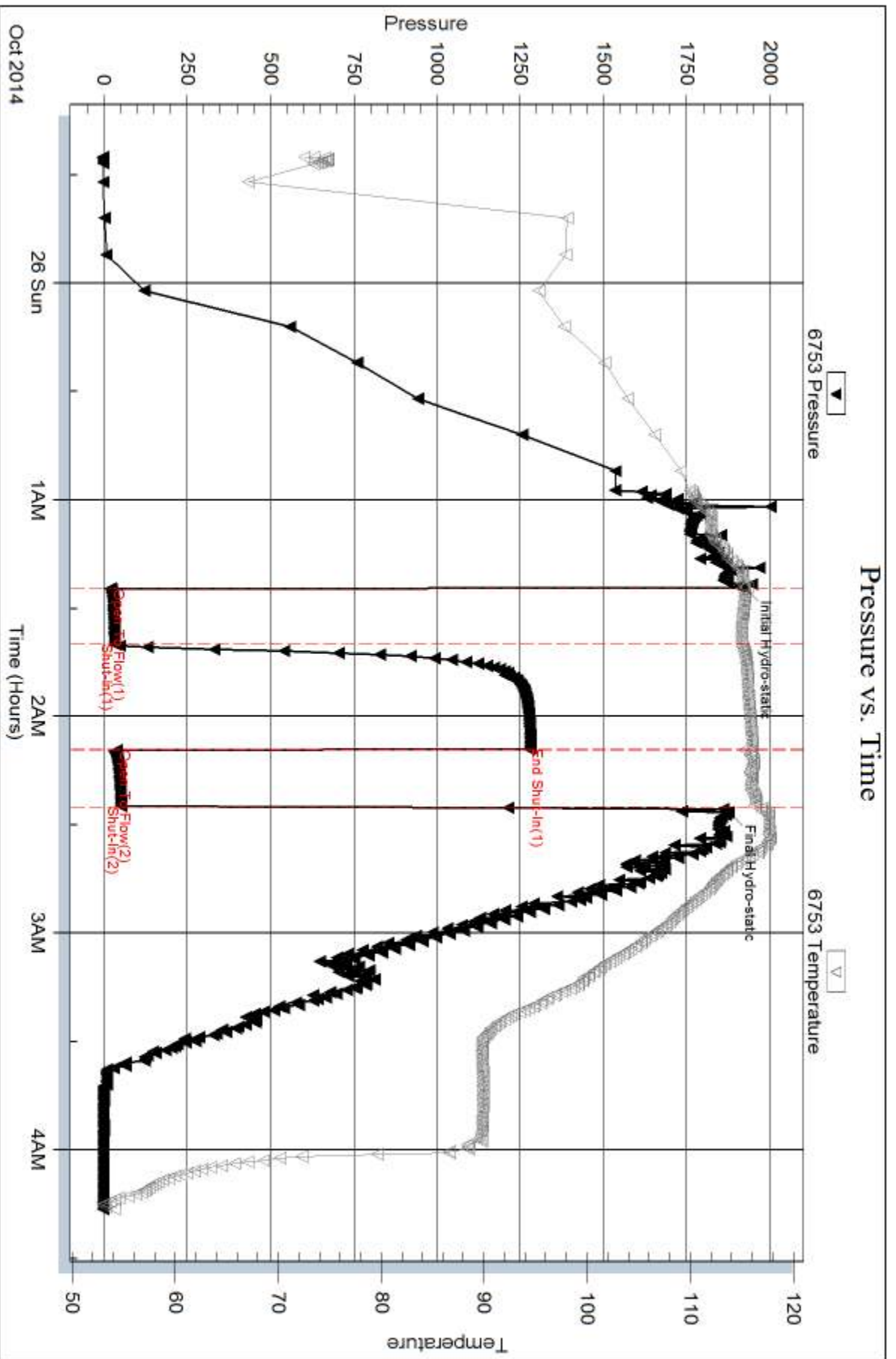
Num Gas Bombs: 0

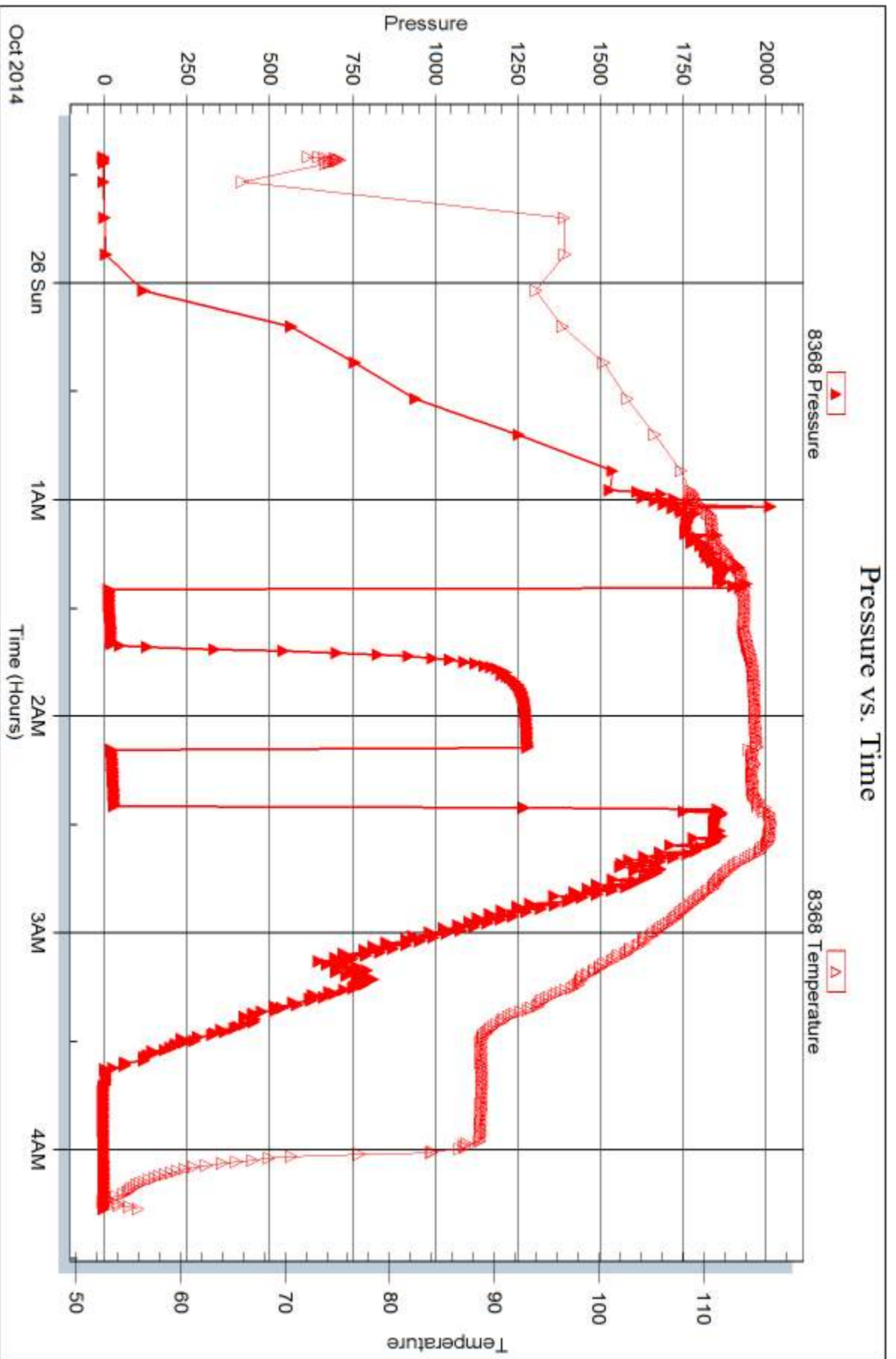
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

P.O. Box 47
Great Bend KS 67530

ATTN: Brad Rine

Cooper #1-12

12-7s-32w Thomas,KS

Start Date: 2014.10.26 @ 10:29:00

End Date: 2014.10.26 @ 15:31:45

Job Ticket #: 58342 DST #: 2

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

Printed: 2014.10.31 @ 11:58:17



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 P.O. Box 47
 Great Bend KS 67530
 ATTN: Brad Rine

12-7s-32w Thomas,KS
Cooper #1-12
 Job Ticket: 58342 **DST#: 2**
 Test Start: 2014.10.26 @ 10:29:00

GENERAL INFORMATION:

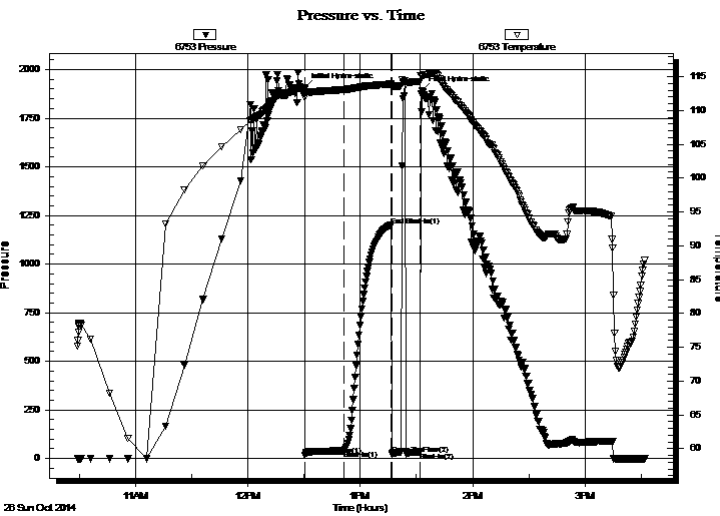
Formation: **LKC 'A'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:30:30
 Time Test Ended: 15:31:45
Interval: 3978.00 ft (KB) To 4000.00 ft (KB) (TVD)
 Total Depth: 4000.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Royal Fisher
 Unit No: #54
 Reference Elevations: 3007.00 ft (KB)
 2996.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6753

Inside

Press@RunDepth: 40.00 psig @ 3979.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.10.26 End Date: 2014.10.26 Last Calib.: 2014.10.26
 Start Time: 10:29:05 End Time: 15:31:44 Time On Btm: 2014.10.26 @ 12:30:15
 Time Off Btm: 2014.10.26 @ 13:33:00

TEST COMMENT: 15 - IF - Surface started w ith a weak blow then died in 7 min.
 30 - ISI - No Return
 15 - FF - No Surface blow , flushed tool 5 mins. in, still no blow , then pulled tool after final open



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1906.57	113.18	Initial Hydro-static
1	15.61	111.92	Open To Flow (1)
21	40.00	113.09	Shut-In(1)
46	1197.86	113.91	End Shut-In(1)
47	21.99	113.55	Open To Flow (2)
62	34.49	114.32	Shut-In(2)
63	1890.89	115.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud - 100M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

P.O. Box 47
Great Bend KS 67530

Cooper #1-12

Job Ticket: 58342

DST#: 2

ATTN: Brad Rine

Test Start: 2014.10.26 @ 10:29:00

GENERAL INFORMATION:

Formation: **LKC 'A'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:30:30

Time Test Ended: 15:31:45

Interval: 3978.00 ft (KB) To 4000.00 ft (KB) (TVD)

Total Depth: 4000.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Reference Elevations: 3007.00 ft (KB)

2996.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8368

Press@RunDepth: psig @ ft (KB)

Start Date: 2014.10.26

End Date: 2014.10.26

Capacity: 8000.00 psig

Last Calib.: 2014.10.26

Start Time: 10:29:05

End Time: 15:31:44

Time On Btm:

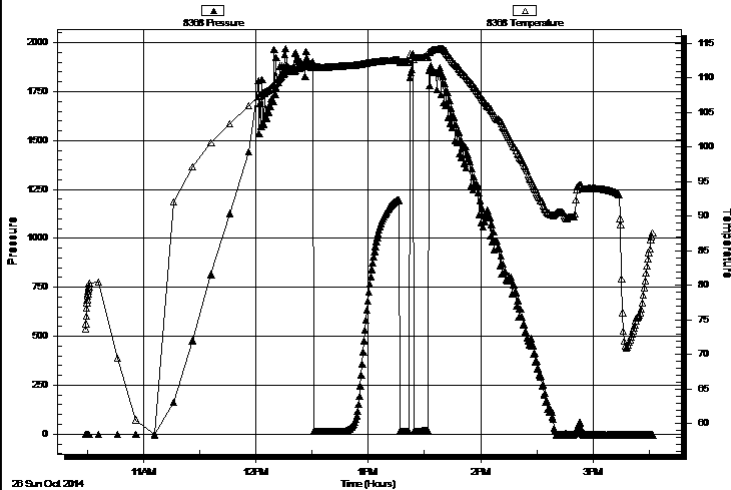
Time Off Btm:

TEST COMMENT: 15 - IF - Surface started with a weak blow then died in 7 min.

30 - ISI - No Return

15 - FF - No Surface blow, flushed tool 5 mins. in, still no blow, then pulled tool after final open

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud - 100M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

P.O. Box 47
Great Bend KS 67530

Cooper #1-12

Job Ticket: 58342

DST#: 2

ATTN: Brad Rine

Test Start: 2014.10.26 @ 10:29:00

Tool Information

Drill Pipe:	Length: 3725.30 ft	Diameter: 3.80 inches	Volume: 52.26 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: 233.34 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 53.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.64 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	3978.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3956.00	
Hydraulic tool	5.00			3961.00	
Jars	5.00			3966.00	
Safety Joint	3.00			3969.00	
Packer	4.00			3973.00	27.00 Bottom Of Top Packer
Packer	5.00			3978.00	
Stubb	1.00			3979.00	
Recorder	0.00	6753	Inside	3979.00	
Recorder	0.00	8368	Outside	3979.00	
Perforations	17.00			3996.00	
Bullnose	4.00			4000.00	22.00 Bottom Packers & Anchor

Total Tool Length: 49.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

P.O. Box 47
Great Bend KS 67530

Cooper #1-12

Job Ticket: 58342

DST#: 2

ATTN: Brad Rine

Test Start: 2014.10.26 @ 10:29:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 560.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud - 100M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

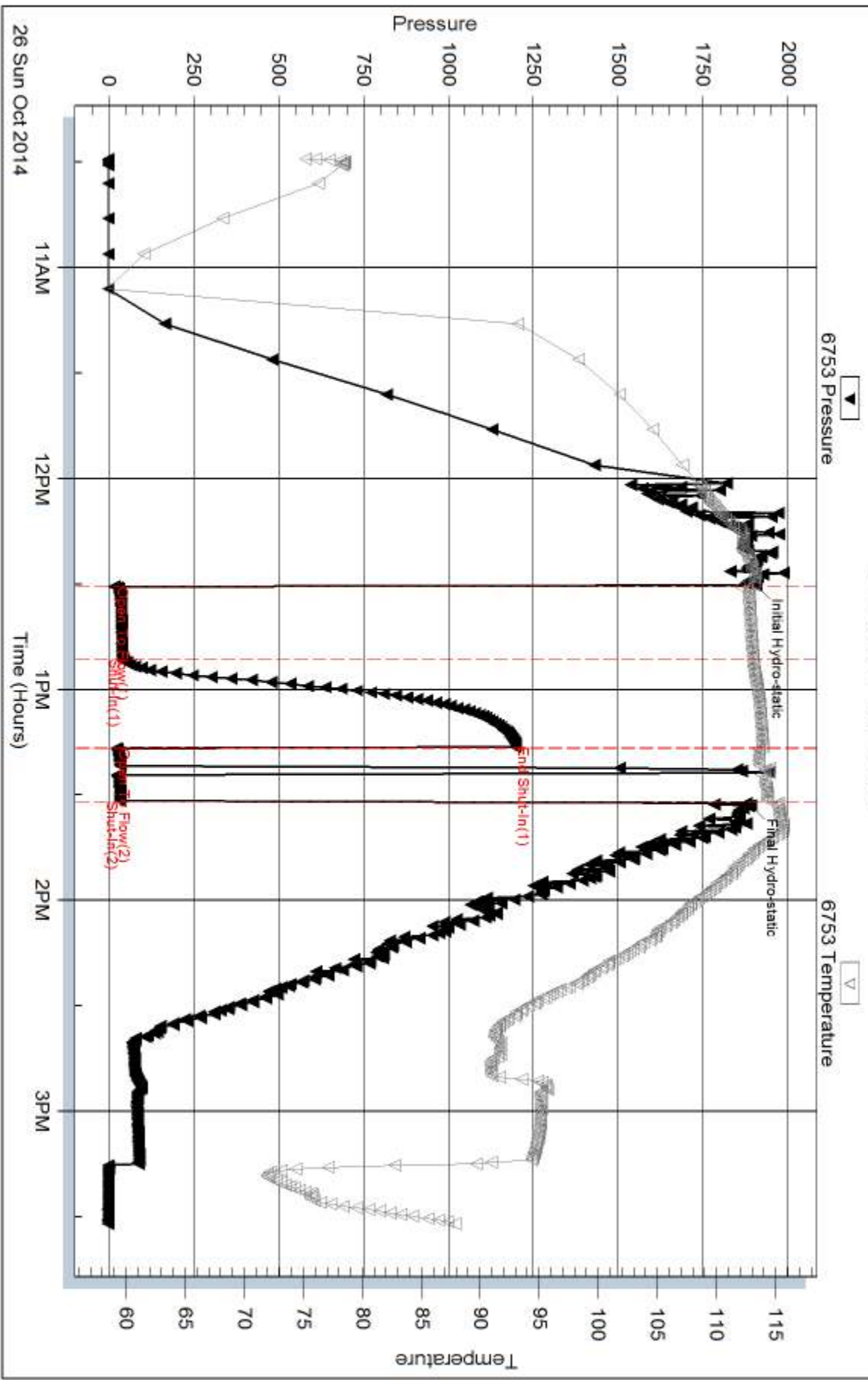
Serial #:

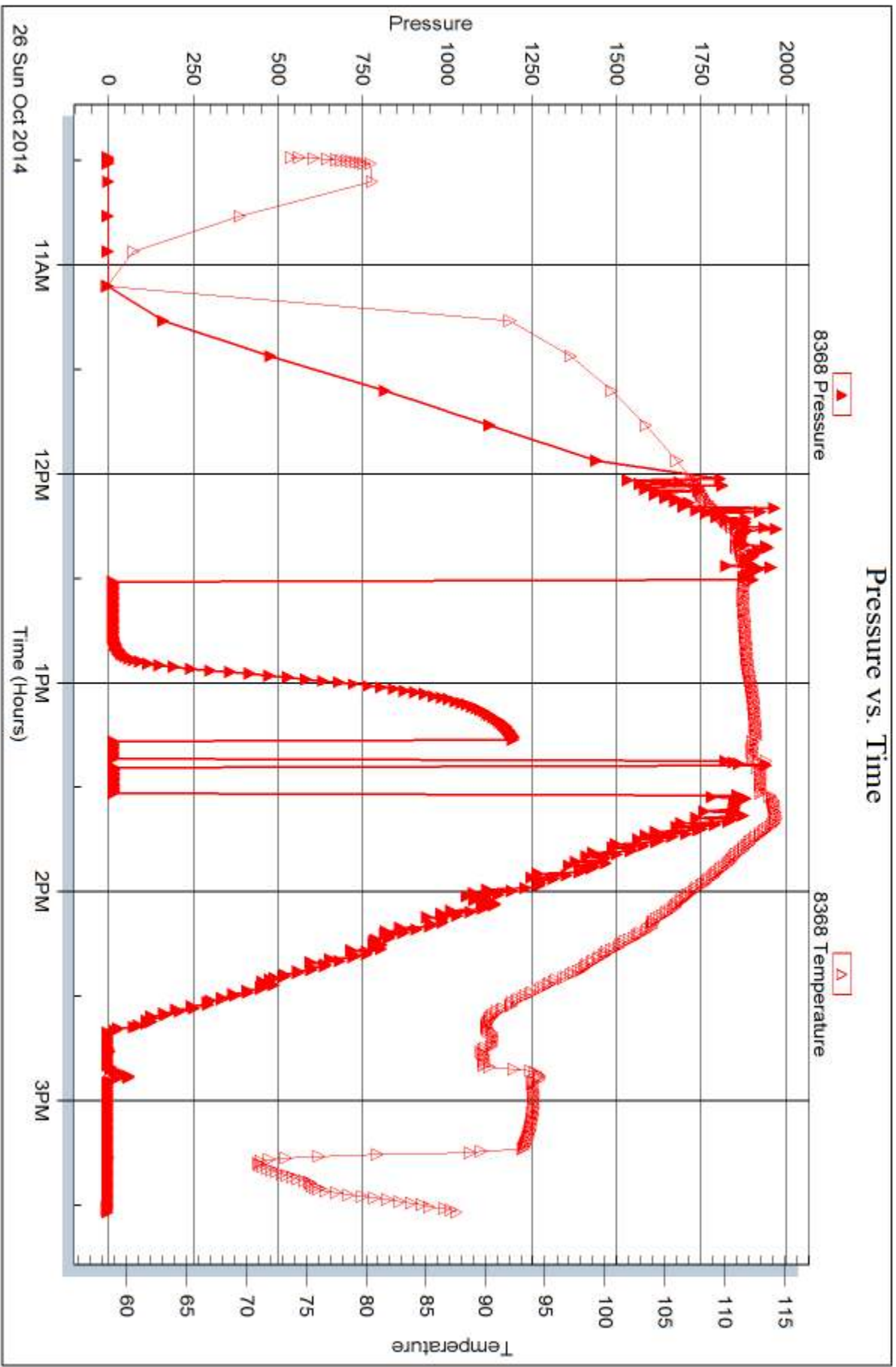
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

P.O. Box 47
Great Bend KS 67530

ATTN: Brad Rine

Cooper #1-12

12-7s-32w Thomas,KS

Start Date: 2014.10.27 @ 08:50:00

End Date: 2014.10.27 @ 14:03:30

Job Ticket #: 58343 DST #: 3

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

Printed: 2014.10.31 @ 11:57:57



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 P.O. Box 47
 Great Bend KS 67530
 ATTN: Brad Rine

12-7s-32w Thomas,KS
Cooper #1-12
 Job Ticket: 58343 **DST#: 3**
 Test Start: 2014.10.27 @ 08:50:00

GENERAL INFORMATION:

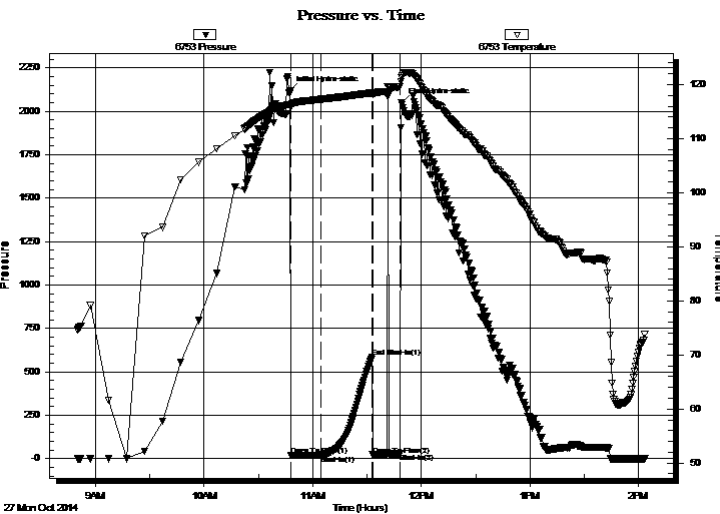
Formation: **LKC - 'I, J'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:47:45
 Time Test Ended: 14:03:30
 Interval: **4138.00 ft (KB) To 4182.00 ft (KB) (TVD)**
 Total Depth: 4182.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Royal Fisher
 Unit No: 54
 Reference Elevations: 3007.00 ft (KB)
 2996.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6753

Outside

Press@RunDepth: 19.50 psig @ 4139.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.10.27 End Date: 2014.10.27 Last Calib.: 2014.10.27
 Start Time: 08:50:05 End Time: 14:03:29 Time On Btm: 2014.10.27 @ 10:47:30
 Time Off Btm: 2014.10.27 @ 11:49:00

TEST COMMENT: 15 - IF - Surface blow built to 1/4"
 30 - ISI - No Return
 15 - FF - No Surface blow flushed tool 5 mins. in blow bubbled a few times then died



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2117.43	116.36	Initial Hydro-static
1	17.11	115.77	Open To Flow (1)
17	19.50	117.28	Shut-In(1)
46	585.31	118.47	End Shut-In(1)
46	21.87	118.15	Open To Flow (2)
61	27.91	119.64	Shut-In(2)
62	2051.41	121.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM - 100M - Oil spots	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

P.O. Box 47
Great Bend KS 67530

Cooper #1-12

Job Ticket: 58343

DST#: 3

ATTN: Brad Rine

Test Start: 2014.10.27 @ 08:50:00

Tool Information

Drill Pipe:	Length: 3880.66 ft	Diameter: 3.80 inches	Volume: 54.44 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: 233.34 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose:	72000.00 lb
			<u>Total Volume: 55.59 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial	66000.00 lb
Depth to Top Packer:	4138.00 ft			Final	66000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	44.00 ft				
Tool Length:	71.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4116.00	
Hydraulic tool	5.00			4121.00	
Jars	5.00			4126.00	
Safety Joint	3.00			4129.00	
Packer	4.00			4133.00	27.00 Bottom Of Top Packer
Packer	5.00			4138.00	
Stubb	1.00			4139.00	
Recorder	0.00	8368	Inside	4139.00	
Recorder	0.00	6753	Outside	4139.00	
Perforations	6.00			4145.00	
Change Over Sub	1.00			4146.00	
Drill Pipe	31.00			4177.00	
Change Over Sub	1.00			4178.00	
Bullnose	4.00			4182.00	44.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

P.O. Box 47
Great Bend KS 67530

Cooper #1-12

Job Ticket: 58343

DST#: 3

ATTN: Brad Rine

Test Start: 2014.10.27 @ 08:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OSM - 100M - Oil spots	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

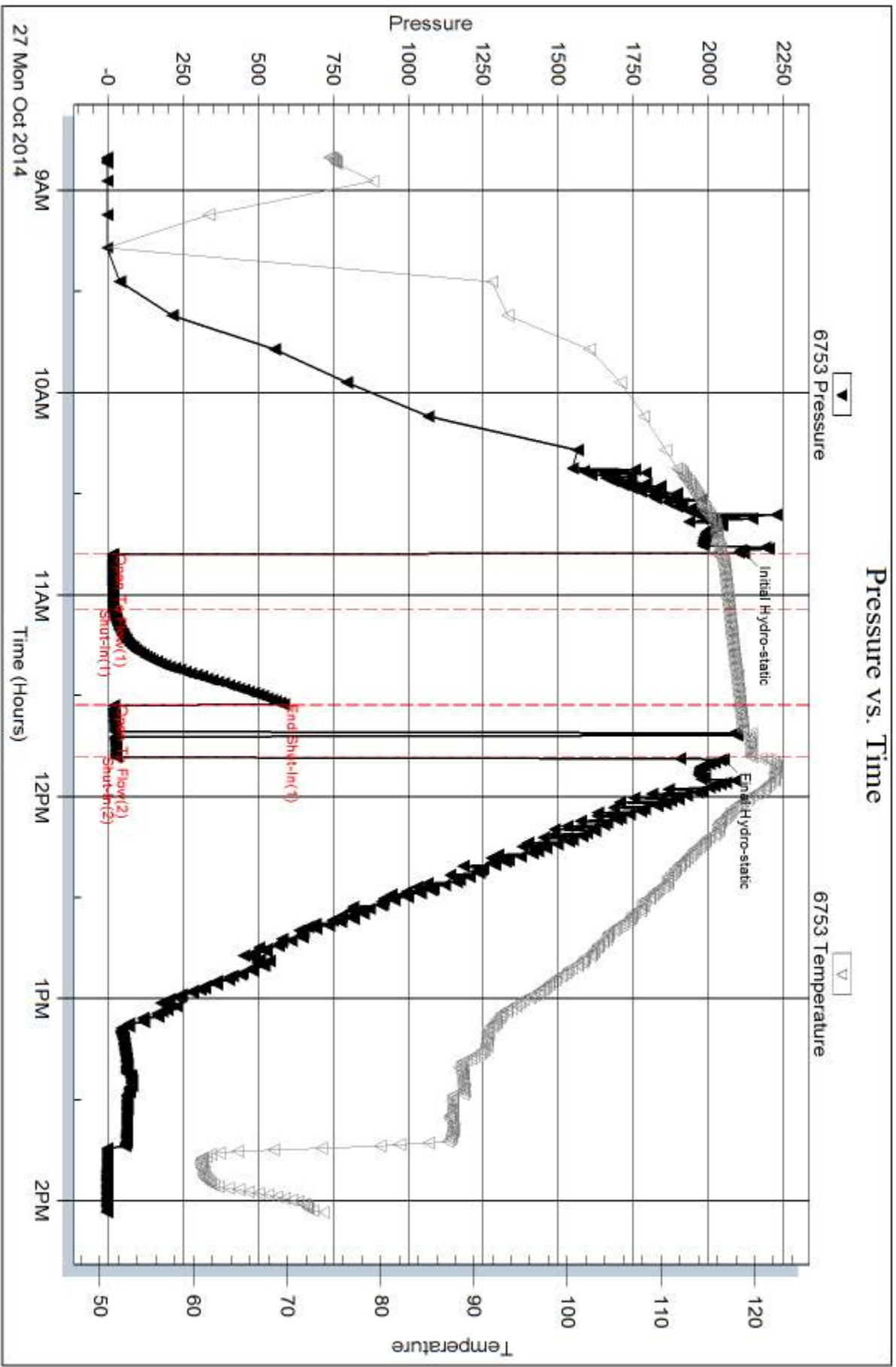
Num Gas Bombs: 0

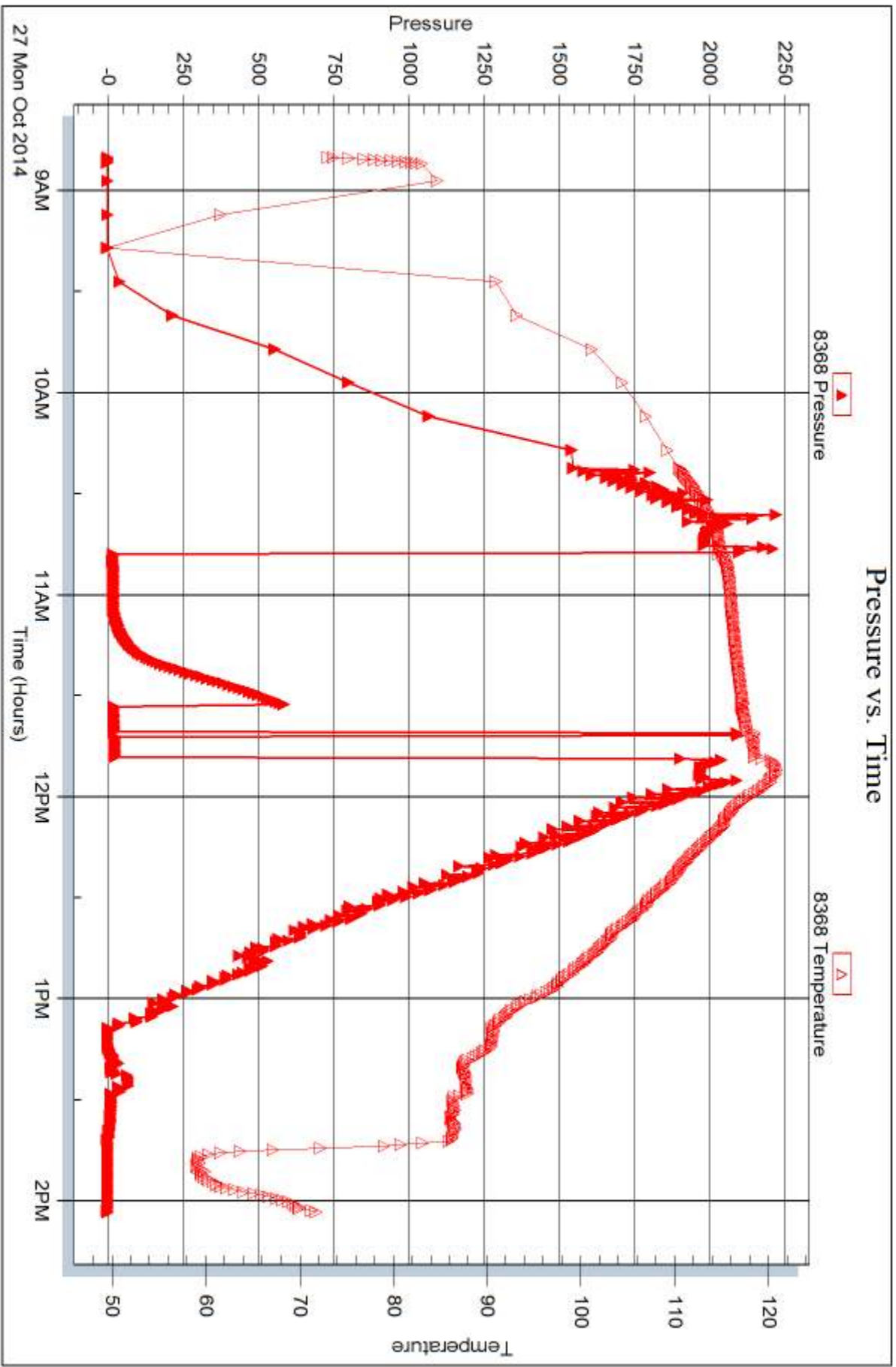
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

P.O. Box 47
Great Bend KS 67530

ATTN: Brad Rine

Cooper #1-12

12-7s-32w Thomas,KS

Start Date: 2014.10.28 @ 15:37:00

End Date: 2014.10.28 @ 20:58:45

Job Ticket #: 58344 DST #: 4

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

Printed: 2014.10.31 @ 11:57:34

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

Cooper #1-12

DST # 4

Pawnee, Ft. Scott, C

2014.10.28



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
P.O. Box 47
Great Bend KS 67530
ATTN: Brad Rine

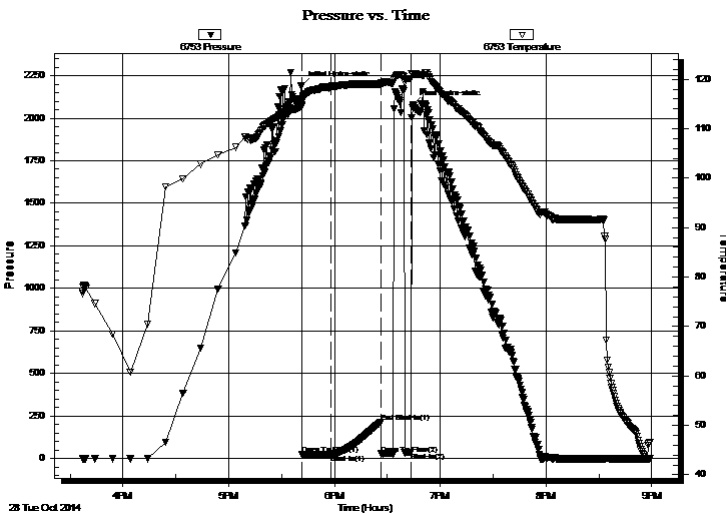
12-7s-32w Thomas,KS
Cooper #1-12
Job Ticket: 58344 **DST#: 4**
Test Start: 2014.10.28 @ 15:37:00

GENERAL INFORMATION:

Formation: **Pawnee, Ft. Scott, C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:41:30
Time Test Ended: 20:58:45
Interval: **4270.00 ft (KB) To 4440.00 ft (KB) (TVD)**
Total Depth: 4440.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Royal Fisher
Unit No: #54
Reference Elevations: 3007.00 ft (KB)
2996.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6753 Outside
Press@RunDepth: 25.90 psig @ 4271.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.10.28 End Date: 2014.10.28 Last Calib.: 2014.10.28
Start Time: 15:37:05 End Time: 20:58:44 Time On Btm: 2014.10.28 @ 17:41:15
Time Off Btm: 2014.10.28 @ 18:44:30

TEST COMMENT: 15 - IF - Surface blow built to 1/4"
30 - ISI - No Return
15 - FF - No Surface blow , flushed tool, blow bubbled a few times then died, pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2192.98	114.78	Initial Hydro-static
1	23.31	114.50	Open To Flow (1)
17	25.90	118.43	Shut-In(1)
45	213.16	118.92	End Shut-In(1)
46	27.64	119.05	Open To Flow (2)
63	37.15	120.09	Shut-In(2)
64	2081.04	120.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud - 100M	0.02

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
P.O. Box 47
Great Bend KS 67530
ATTN: Brad Rine

12-7s-32w Thomas,KS
Cooper #1-12
Job Ticket: 58344 **DST#: 4**
Test Start: 2014.10.28 @ 15:37:00

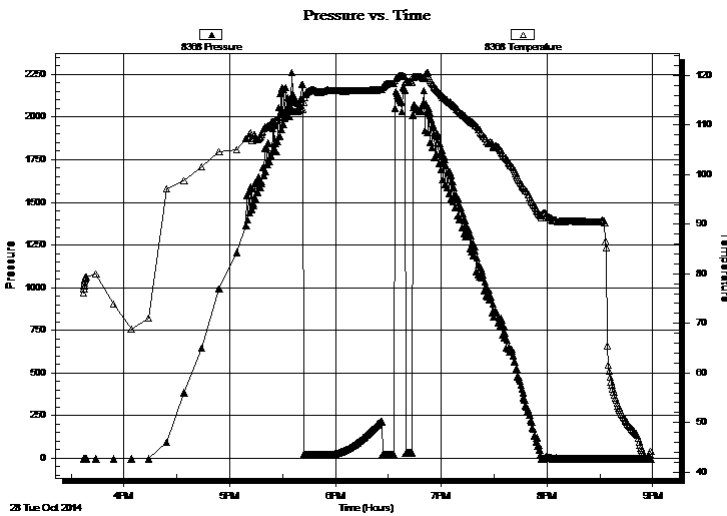
GENERAL INFORMATION:

Formation: **Pawnee, Ft. Scott, C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:41:30
Time Test Ended: 20:58:45
Interval: **4270.00 ft (KB) To 4440.00 ft (KB) (TVD)**
Total Depth: 4440.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Royal Fisher
Unit No: #54
Reference Elevations: 3007.00 ft (KB)
2996.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8368

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig
Start Date: 2014.10.28 End Date: 2014.10.28 Last Calib.: 2014.10.28
Start Time: 15:37:05 End Time: 20:58:44 Time On Btm:
Time Off Btm:

TEST COMMENT: 15 - IF - Surface blow built to 1/4"
30 - ISI - No Return
15 - FF - No Surface blow, flushed tool, blow bubbled a few times then died, pulled tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud - 100M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

P.O. Box 47
Great Bend KS 67530

Cooper #1-12

Job Ticket: 58344

DST#: 4

ATTN: Brad Rine

Test Start: 2014.10.28 @ 15:37:00

Tool Information

Drill Pipe:	Length: 4039.66 ft	Diameter: 3.80 inches	Volume: 56.67 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: 233.34 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 57.82 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	4270.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	170.00 ft				
Tool Length:	197.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4248.00	
Hydraulic tool	5.00			4253.00	
Jars	5.00			4258.00	
Safety Joint	3.00			4261.00	
Packer	4.00			4265.00	27.00 Bottom Of Top Packer
Packer	5.00			4270.00	
Stubb	1.00			4271.00	
Recorder	0.00	8368	Inside	4271.00	
Recorder	0.00	6753	Outside	4271.00	
Perforations	6.00			4277.00	
Change Over Sub	1.00			4278.00	
Drill Pipe	157.00			4435.00	
Change Over Sub	1.00			4436.00	
Bullnose	4.00			4440.00	170.00 Bottom Packers & Anchor

Total Tool Length: 197.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

P.O. Box 47
Great Bend KS 67530

Cooper #1-12

Job Ticket: 58344

DST#: 4

ATTN: Brad Rine

Test Start: 2014.10.28 @ 15:37:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	Mud - 100M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbf

Num Fluid Samples: 0

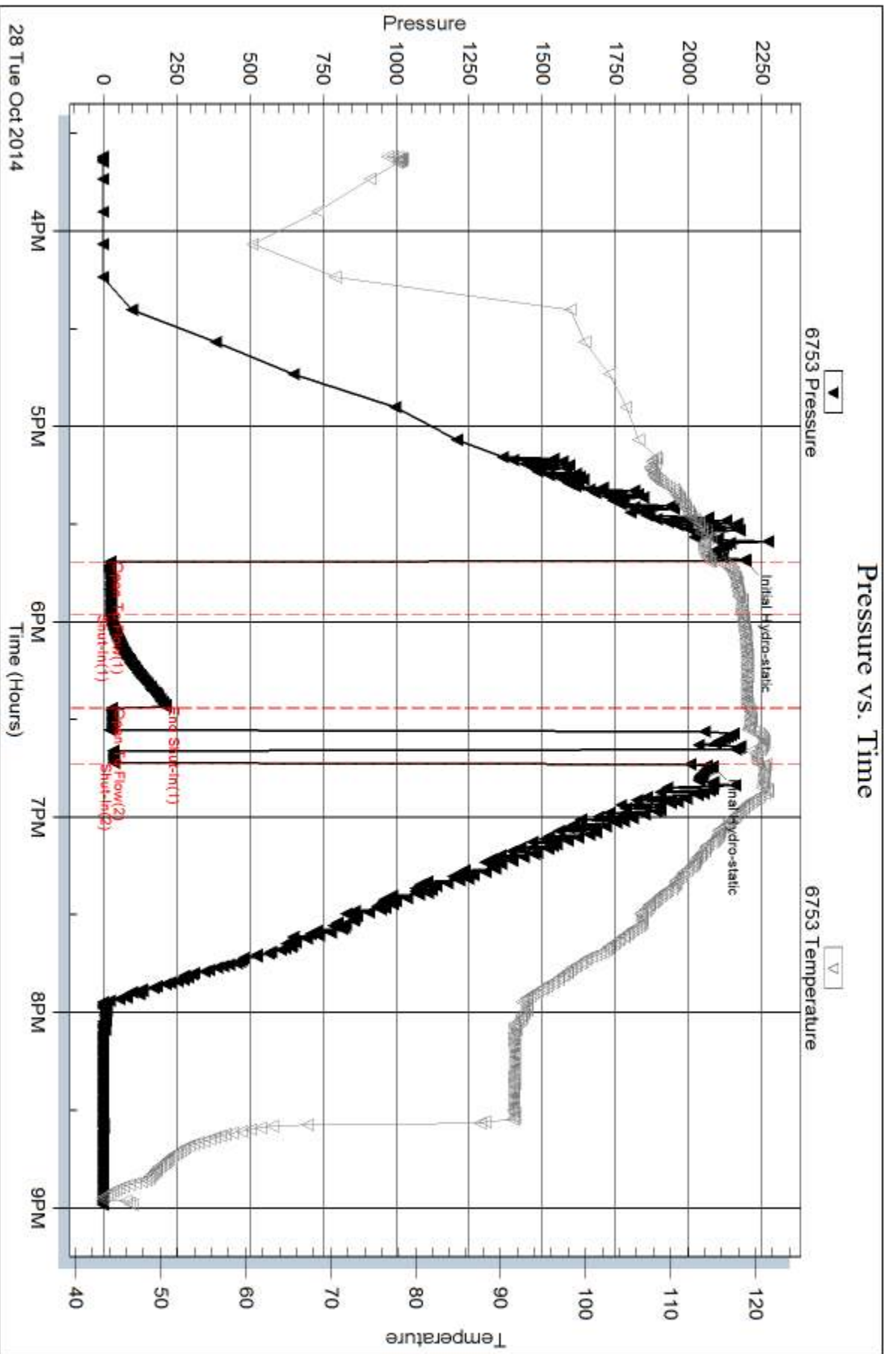
Num Gas Bombs: 0

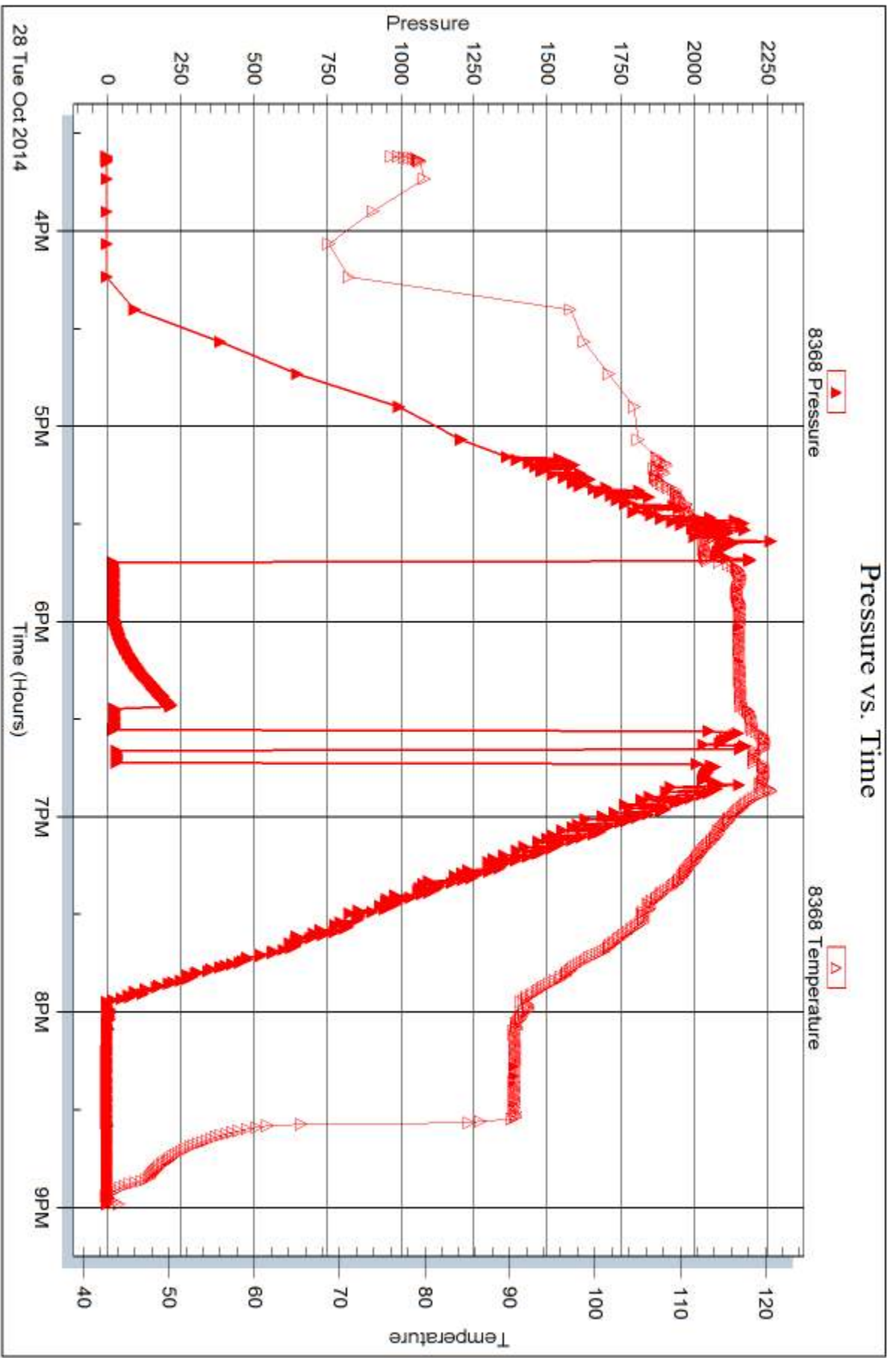
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

P.O. Box 47
Great Bend KS 67530

ATTN: Brad Rine

Cooper #1-12

12-7s-32w Thomas,KS

Start Date: 2014.10.29 @ 06:44:00

End Date: 2014.10.29 @ 13:51:30

Job Ticket #: 58345 DST #: 5

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

Printed: 2014.10.31 @ 11:56:59



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
P.O. Box 47
Great Bend KS 67530
ATTN: Brad Rine

12-7s-32w Thomas,KS
Cooper #1-12
Job Ticket: 58345 **DST#: 5**
Test Start: 2014.10.29 @ 06:44:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:47:30
Time Test Ended: 13:51:30
Interval: **4442.00 ft (KB) To 4500.00 ft (KB) (TVD)**
Total Depth: 4500.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Royal Fisher
Unit No: #54
Reference Elevations: 3007.00 ft (KB)
2996.00 ft (CF)
KB to GR/CF: 11.00 ft

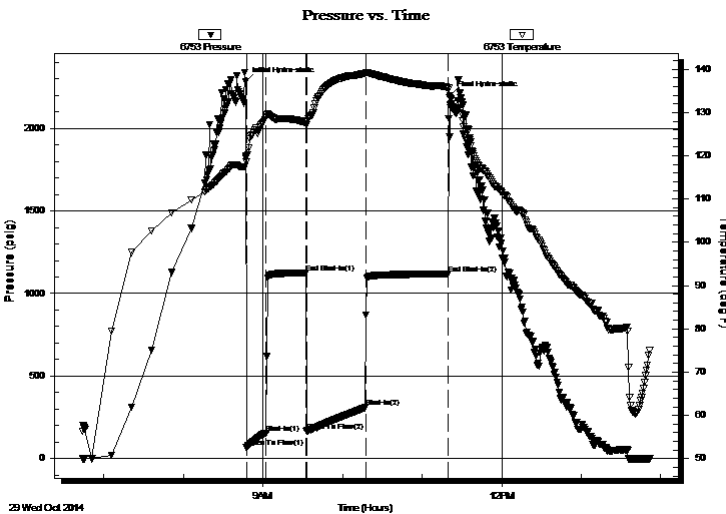
Serial #: 6753

Outside

Press@RunDepth: 308.90 psig @ 4443.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.10.29 End Date: 2014.10.29 Last Calib.: 2014.10.29
Start Time: 06:44:05 End Time: 13:51:29 Time On Btm: 2014.10.29 @ 08:47:15
Time Off Btm: 2014.10.29 @ 11:21:00

TEST COMMENT: 15 - IF - Surface blow built to 8 1/2"
30 - ISI - No Return
45 - FF - Surface blow built to bottom of the bucket in 24 mins.
60 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2283.66	119.90	Initial Hydro-static
1	65.54	118.69	Open To Flow (1)
16	153.51	129.05	Shut-In(1)
46	1124.44	127.74	End Shut-In(1)
46	164.95	127.17	Open To Flow (2)
90	308.90	138.98	Shut-In(2)
152	1118.88	135.72	End Shut-In(2)
154	2197.91	131.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	MW - 5M - 95W	0.93
189.00	MW - 10M - 90W	2.25
126.00	MW - 45M - 55W	1.77
94.00	WM - 55M - 45W	1.32

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
P.O. Box 47
Great Bend KS 67530
ATTN: Brad Rine

12-7s-32w Thomas,KS
Cooper #1-12
Job Ticket: 58345 **DST#: 5**
Test Start: 2014.10.29 @ 06:44:00

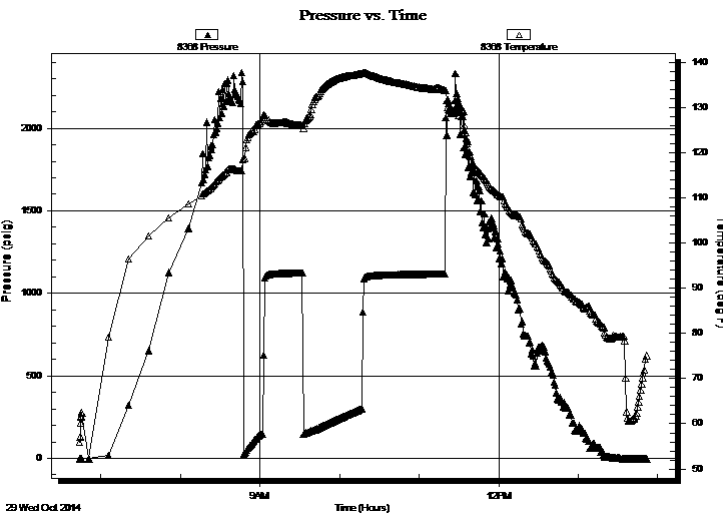
GENERAL INFORMATION:

Formation: **Cherokee Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:47:30
Time Test Ended: 13:51:30
Interval: **4442.00 ft (KB) To 4500.00 ft (KB) (TVD)**
Total Depth: 4500.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Royal Fisher
Unit No: #54
Reference Elevations: 3007.00 ft (KB)
2996.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8368

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig
Start Date: 2014.10.29 End Date: 2014.10.29 Last Calib.: 2014.10.29
Start Time: 06:44:05 End Time: 13:51:29 Time On Btm:
Time Off Btm:

TEST COMMENT: 15 - IF - Surface blow built to 8 1/2"
30 - ISI - No Return
45 - FF - Surface blow built to bottom of the bucket in 24 mins.
60 - FSI - No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
189.00	MW - 5M - 95W	0.93
189.00	MW - 10M - 90W	2.25
126.00	MW - 45M - 55W	1.77
94.00	WM - 55M - 45W	1.32

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

P.O. Box 47
Great Bend KS 67530

Cooper #1-12

Job Ticket: 58345

DST#: 5

ATTN: Brad Rine

Test Start: 2014.10.29 @ 06:44:00

Tool Information

Drill Pipe:	Length: 4195.63 ft	Diameter: 3.80 inches	Volume: 58.85 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: 233.34 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.97 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4442.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	85.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4420.00	
Hydraulic tool	5.00			4425.00	
Jars	5.00			4430.00	
Safety Joint	3.00			4433.00	
Packer	4.00			4437.00	27.00 Bottom Of Top Packer
Packer	5.00			4442.00	
Stubb	1.00			4443.00	
Recorder	0.00	8368	Inside	4443.00	
Recorder	0.00	6753	Outside	4443.00	
Perforations	20.00			4463.00	
Change Over Sub	1.00			4464.00	
Drill Pipe	31.00			4495.00	
Change Over Sub	1.00			4496.00	
Bullnose	4.00			4500.00	58.00 Bottom Packers & Anchor

Total Tool Length: 85.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

12-7s-32w Thomas,KS

P.O. Box 47
Great Bend KS 67530

Cooper #1-12

Job Ticket: 58345

DST#: 5

ATTN: Brad Rine

Test Start: 2014.10.29 @ 06:44:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

32000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
189.00	MW - 5M - 95W	0.929
189.00	MW - 10M - 90W	2.247
126.00	MW - 45M - 55W	1.767
94.00	WM - 55M - 45W	1.319

Total Length: 598.00 ft

Total Volume: 6.262 bbl

Num Fluid Samples: 0

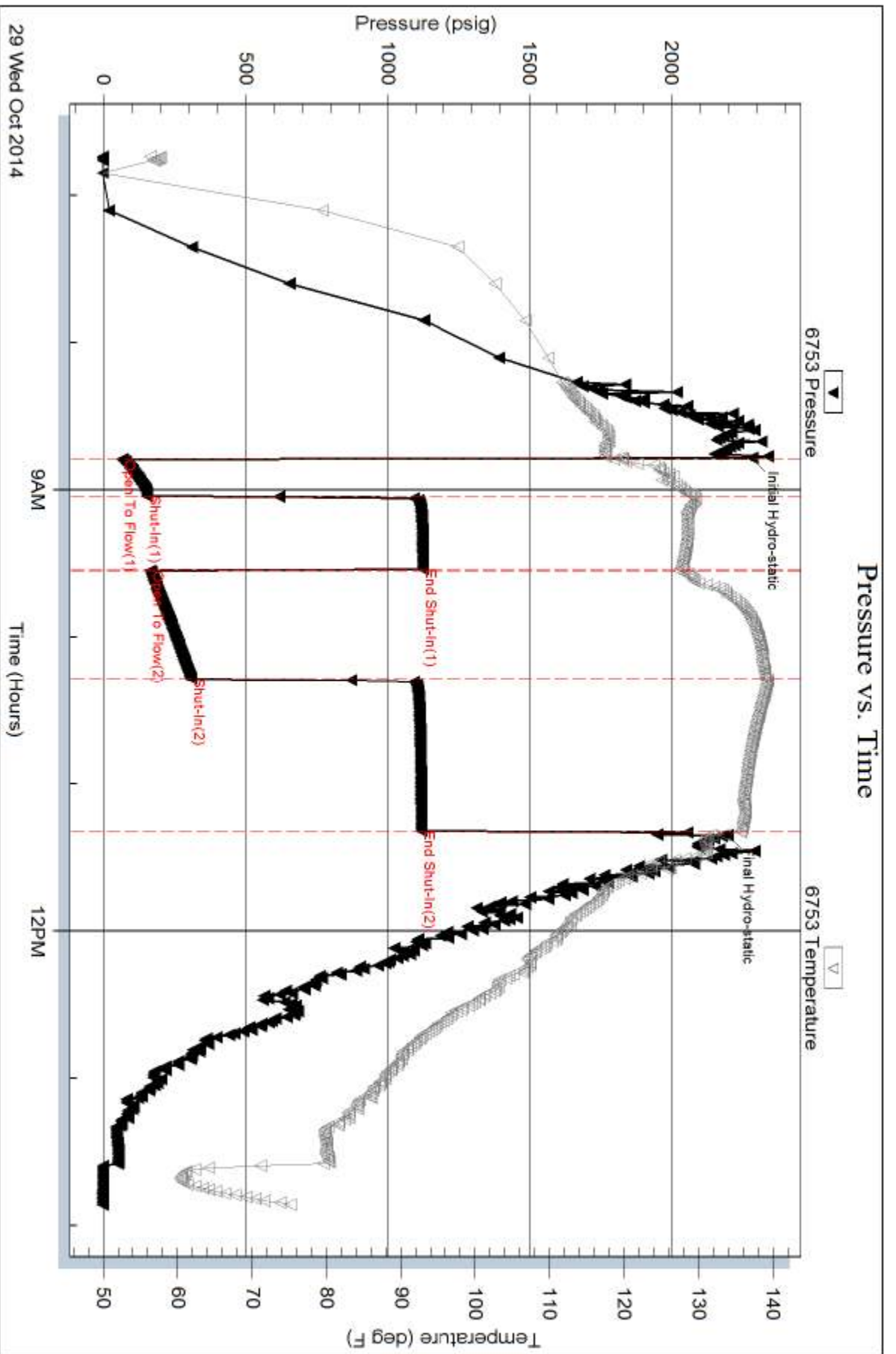
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

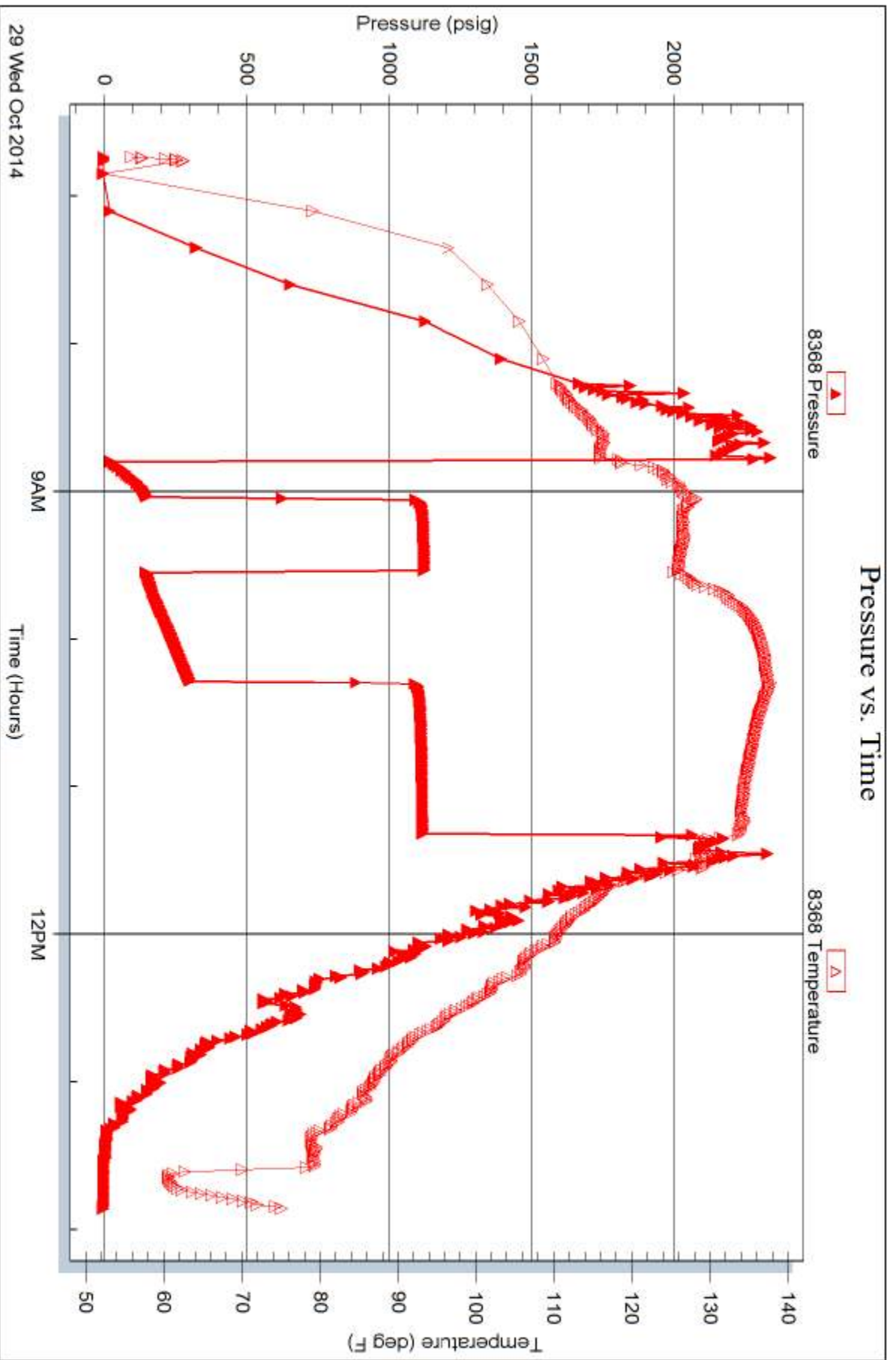


Serial #: 8368

Carmen Schmitt, Inc.

Cooper #1-12

DST Test Number: 5

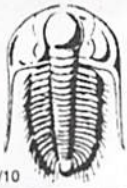


29 Wed Oct 2014

Trilobite Testing, Inc

Ref. No: 58345

Printed: 2014, 10, 31 @ 11:57:00



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58341

Well Name & No. Cooper #1-12 Test No. 1 Date 10-25-14
 Company Carmen Schmitt, Inc. Elevation 3007 KB 2996 GL
 Address P.O. Box 47 Great Bend KS 67530
 Co. Rep / Geo. Brad Rine Rig Martin 22
 Location: Sec. 12 Twp. 7S Rge. 32 W Co. Thomas State KS

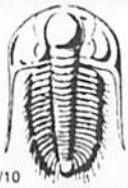
Interval Tested 3943-3985 Zone Tested Toronto
 Anchor Length 42' Drill Pipe Run 3693.77' Mud Wt. 9.0
 Top Packer Depth 3938 Drill Collars Run 233.34' Vis 58
 Bottom Packer Depth 3943 Wt. Pipe Run ⊖ WL 6.0
 Total Depth 3985 Chlorides 600 ppm System LCM 14#
 Blow Description IF-Surface blow ~~stably~~ slowly built to 1/2"
ISI- No Return
FF- No Surface blow, pulled tool after open.
FSI-

Rec	Feet of	%gas	%oil	%water	%mud
<u>15'</u>	<u>OSM</u>	<u>Spots</u>		<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15' BHT 116°F Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1923 Test 1150 T-On Location 10:34pm
 (B) First Initial Flow 21 Jars 250 T-Started 11:25pm
 (C) First Final Flow 33 Safety Joint 75 T-Open 1:24am
 (D) Initial Shut-In 1277 Circ Sub N/C T-Pulled 2:24am
 (E) Second Initial Flow 39 Hourly Standby _____ T-Out 4:17am
 (F) Second Final Flow 51 Mileage 80 RT 124 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 1876 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1599
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1599

Approved By _____ Our Representative Ryan Justice
 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. 58342

Well Name & No. Cooper #1-12 Test No. 2 Date 10-26-14
 Company Carmen Schmitt, Inc. Elevation 3007 KB 2996 GL
 Address P.O. Box 47 Great Bend KS 67530
 Co. Rep / Geo. Brad Rine Rig Murfin #22
 Location: Sec. 12 Twp. 7S Rge. 32 W Co. Thomas State KS

Interval Tested 3978-4000 Zone Tested Lans-'A'
 Anchor Length 22' Drill Pipe Run 3725.30' Mud Wt. 9.1
 Top Packer Depth 3973 Drill Collars Run 233.34' Vis 50
 Bottom Packer Depth 3978 Wt. Pipe Run 0 WL 6.0
 Total Depth 4000 Chlorides 560 ppm System LCM 10#

Blow Description IF - Surface blow started with a weak blow then died in 7 min.
ISI - No return
FF - No surface blow, flushed tool 5 mins. in, still no surface blow.
FSI -

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5' BHT 114°F Gravity 1150 API RW 124 @ 114 °F Chlorides 560 ppm

(A) Initial Hydrostatic 1906 Test 1150 T-On Location 9:50am
 (B) First Initial Flow 15 Jars 250 T-Started 10:29am
 (C) First Final Flow 40 Safety Joint 75 T-Open 12:31pm
 (D) Initial Shut-In 1197 Circ Sub N/C T-Pulled 1:31pm
 (E) Second Initial Flow 21 Hourly Standby _____ T-Out 3:32 pm
 (F) Second Final Flow 34 Mileage 80 R/T 124 Comments pulled tool at the end of the final flow
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 1890 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 15 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1599
 Final Flow 15 Accessibility _____ MP/DST Disc't _____
 Final Shut-In _____ Sub Total 1599

Approved By _____ Our Representative Brad Rine
 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.

Test Ticket

NO. 58343

arkway • Hays, Kansas 67601

Well Cooper #1-12 Test No. 3 Date 10-27-14
 Company Carmen Schmitt, Inc. Elevation 3007 KB 2996 GL
 Address P.O. Box 47 Great Bend Ks 67530
 Co. Rep / Geo. Brad Rine Rig Martin #22
 Location: Sec. 12 Twp. 75 Rge. 32 W Co. Thomas State KS

Interval Tested 4138 - 4182 Zone Tested LKC - 'I, J'
 Anchor Length ~~4133~~ 44' Drill Pipe Run 3880.66' Mud Wt. 9.2
 Top Packer Depth ~~4133~~ 4133 Drill Collars Run 233.34' Vis 52
 Bottom Packer Depth 4138 Wt. Pipe Run 0 WL 6.4
 Total Depth 4182 Chlorides 600 ppm System LCM 8#
 Blow Description IF - Surface blow built to 1/4"
ISI - No Return
FF - No surface blow flushed tool bubbled then died

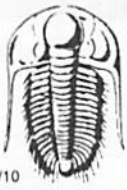
Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>OSM</u>	<u>Spots</u>		<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5' BHT 119°F Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2117 Test 1250 T-On Location 7:55 am
 (B) First Initial Flow 17 Jars 250 T-Started 8:50 am
 (C) First Final Flow 19 Safety Joint 75 T-Open 10:48 am
 (D) Initial Shut-In 585 Circ Sub N/C T-Pulled 11:48 am
 (E) Second Initial Flow 21 Hourly Standby _____ T-Out 2:04 pm
 (F) Second Final Flow 27 Mileage 80 R/T 124 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 2057 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1699
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1699

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58344

Well Name & No. Cooper #1-12 Test No. 4 Date 10-28-14
 Company Carmen Schmitt, Inc. Elevation 3007 KB 2996 GL
 Address P.O. Box 47 Great Bend Ks 67530
 Co. Rep / Geo. Brad Rine Rig Murkin #22
 Location: Sec. 12 Twp. 7S Rge. 32W Co. Thomas State Ks

Interval Tested 4270 - 4440 Zone Tested Pawnee, Ft. Scott, Cherokee
 Anchor Length 170' Drill Pipe Run 4039.666' Mud Wt. 9.4
 Top Packer Depth 4265 Drill Collars Run 233.34' Vis 54
 Bottom Packer Depth 4270 Wt. Pipe Run 0 WL 7.2
 Total Depth 4440 Chlorides 1000 ppm System LCM 8#
 Blow Description IF - Surface blow built to 1/4"
ISI - No Return
FF - No Surface blow, flushed tool, bubbled then died, pulled tool

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5' BHT 120°F Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2192 Test 1250 T-On Location 3:05 pm
 (B) First Initial Flow 23 Jars 250 T-Started 3:37 pm
 (C) First Final Flow 25 Safety Joint 75 T-Open 5:41 pm
 (D) Initial Shut-In 213 Circ Sub N/C T-Pulled 6:41 pm
 (E) Second Initial Flow 27 Hourly Standby _____ T-Out 8:59 pm
 (F) Second Final Flow 37 Mileage 80 R/T 124 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 2081 Straddle _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Initial Open 15 Day Standby 1d 1h Sub Total 33.33
 Initial Shut-In 30 Accessibility _____ Total 1732.33
 Final Flow 15 Sub Total 1699 MP/DST Disc't _____
 Final Shut-In _____

Approved By _____ Our Representative Royal Foster

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TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **58345**

Well Name & No. Cooper #1-12 Test No. 5 Date 10-29-14
 Company Carmen Schmitt, Inc. Elevation 3007 KB 2996 GL
 Address P.O. Box 47 Great Bend KS 67530
 Co. Rep / Geo. Broad Rine Rig Murfin #22
 Location: Sec. 12 Twp. 7S Rge. 32 W Co. Thomas State KS

Interval Tested 4442-4500 Zone Tested Cherokee Sand
 Anchor Length 58' Drill Pipe Run 4195.63' Mud Wt. 9.4
 Top Packer Depth 4437 Drill Collars Run 233.34' Vis 54
 Bottom Packer Depth 4442 Wt. Pipe Run 0 WL 7.2
 Total Depth 4500 Chlorides 1000 ppm System LCM 8#
 Blow Description IF - Surface blow built to 8 1/2"
IST - No Return
FF - Surface blow built to bottom of the bucket in 24 min.
FST - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>94'</u>	<u>WM</u>		<u>45</u>	<u>55</u>	
<u>126'</u>	<u>mw</u>		<u>55</u>	<u>45</u>	
<u>189'</u>	<u>mw</u>		<u>90</u>	<u>10</u>	
<u>189'</u>	<u>mw</u>		<u>95</u>	<u>5</u>	

Rec Total 598' BHT 135°F Gravity _____ API RW .202 @ 77 °F Chlorides 32,000 ppm

(A) Initial Hydrostatic <u>2283</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>6:20 am</u>
(B) First Initial Flow <u>65</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>6:44 am</u>
(C) First Final Flow <u>153</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>8:47 am</u>
(D) Initial Shut-In <u>1124</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>11:17 am</u>
(E) Second Initial Flow <u>1164</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1:51 pm</u>
(F) Second Final Flow <u>308</u>	<input checked="" type="checkbox"/> Mileage <u>80 R/T 124</u>	Comments <u>Picked up tool</u>
(G) Final Shut-In <u>1118</u>	<input type="checkbox"/> Sampler _____	<u>10-30-14 on location @ 8:55 am</u>
(H) Final Hydrostatic <u>2197</u>	<input type="checkbox"/> Straddle _____	<u>waited on orders left @ 10:52 am</u>
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>15</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Accessibility _____	Total <u>1699</u>
Final Shut-In <u>60</u>	Sub Total <u>1699</u>	MP/DST Disc't _____

Approved By _____ Our Representative _____

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CONSOLIDATED
Oil Well Services, LLC

REMIT TO
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
Fax 620/431-0012

INVOICE

Invoice # 272014

Invoice Date: 10/27/2014 Terms: 10/10/10,n/30

Page 1

CARMEN SCHMITT, INC.
P.O. BOX 47 (915 HARRISON)
GREAT BEND KS 57530
(620) 793-5100

COOPER 1-12
12-7-32
47767
10/22/2014
KS

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	190.00	18.5500	3524.50
1102	CALCIUM CHLORIDE (50#)	536.00	.9400	503.84
1118A	S-5 GEL/ BENTONITE (50#)	357.00	.2700	96.39

Sublet Performed	Description	Total
9995-130	CEMENT EQUIPMENT DISCOUNT	-171.12
9996-130	CEMENT MATERIAL DISCOUNT	-412.47

Description	Hours	Unit Price	Total
456 CEMENT PUMP (SURFACE)	1.00	1150.00	1150.00
456 EQUIPMENT MILEAGE (ONE WAY)	25.00	5.25	131.25
460 MIN. BULK DELIVERY	1.00	430.00	430.00

18815.0112
710/43
Well file

Amount Due 6130.89 if paid after 11/06/2014

Parts:	4124.73	Freight:	.00	Tax:	265.42	AR	5517.81
Labor:	.00	Misc:	.00	Total:	5517.81		
Sublt:	-583.59	Supplies:	.00	Change:	.00		

Signed _____ Date _____

BARTLESVILLE, OK 918/338-0808 EL DORADO, KS 316/322-7022 EUREKA, KS 620/583-7664 PONCA CITY, OK 580/762-2303 OAKLEY, KS 785/672-8822 OTTAWA, KS 785/242-4044 THAYER, KS 620/839-5269 GILLETTE, WY 307/686-4914 CUSHING, OK 918/225-2650



CONSOLIDATED
Oil Well Services, LLC

272014

TICKET NUMBER 47767
LOCATION Oakley KS
FOREMAN Dane Retsch

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

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10/22/14	1860	Cooper 1-12	12	7	32	Thomas
CUSTOMER Carmen Schmitt			Gem K3 RD 20			
MAILING ADDRESS			North 2 1/2 miles East into			
CITY	STATE	ZIP CODE	TRUCK #	DRIVER	TRUCK #	DRIVER
			456	Jordan		
			460	Bill		

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 229 CASING SIZE & WEIGHT 8 5/8 44 LBS
 CASING DEPTH 229 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.8 SLURRY VOL 1.36 WATER gal/sk 6.5 CEMENT LEFT In CASING 0
 DISPLACEMENT 13.31 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting. Rig up. Break circulation. Mix 490 sks Class A 3% cc 2% opel.
Displace 13.3 Bbls of water. Shut in. Rig down.
Cement did circulate.

Thanks Dane & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1150.00	1150.00 ✓
5406	45	MILEAGE	5.25	131.25 ✓
5407	8.93	Ton mileage Delivery (min)	1.75	430.00 ✓
11043	190 sks	Class A cement	18.55	3524.50 ✓
1162	536	Calcium Chloride	.94	503.84 ✓
111AA	357	Bentonite	.27	96.59 ✓
			sub	5835.98
			less 10% Total	5835.99 ✓ 5252.39
			SALES TAX	265.42 ✓
			ESTIMATED TOTAL	5517.81 ✓

Rev'n 3737
 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.