



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1205978
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
-----------------------------------	-----------------	---

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: _____

1205978

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	-------	---------	------------	---

Date of First, Resumed Production, SWD or ENHR.	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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
---	--	--



DRILL STEM TEST REPORT

Prepared For: **John O. Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

Haase #1

34-14s-9w Ellsworth KS

Start Date: 2014.02.01 @ 14:36:00

End Date: 2014.02.01 @ 22:08:00

Job Ticket #: 56062 DST #: 1

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

Printed: 2014.02.05 @ 11:06:18

John O. Farmer Inc
34-14s-9w Ellsworth KS
Haase #1
DST # 1
LKC "A-C"
2014.02.01



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O. Farmer Inc

34-14s-9w Ellsworth KS

PO Box 352
Russell KS 67665

Haase #1

Job Ticket: 56062

DST#: 1

ATTN: Austin Klaus

Test Start: 2014.02.01 @ 14:36:00

GENERAL INFORMATION:

Formation: **LKC "A-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:34:00

Time Test Ended: 22:08:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 73

Interval: 2706.00 ft (KB) To 2756.00 ft (KB) (TVD)

Reference Elevations: 1623.00 ft (KB)

Total Depth: 2756.00 ft (KB) (TVD)

1613.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6799

Inside

Press@RunDepth: 100.47 psig @ 2743.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.01

End Date:

2014.02.01

Last Calib.:

2014.02.01

Start Time: 14:36:05

End Time:

22:07:59

Time On Btm:

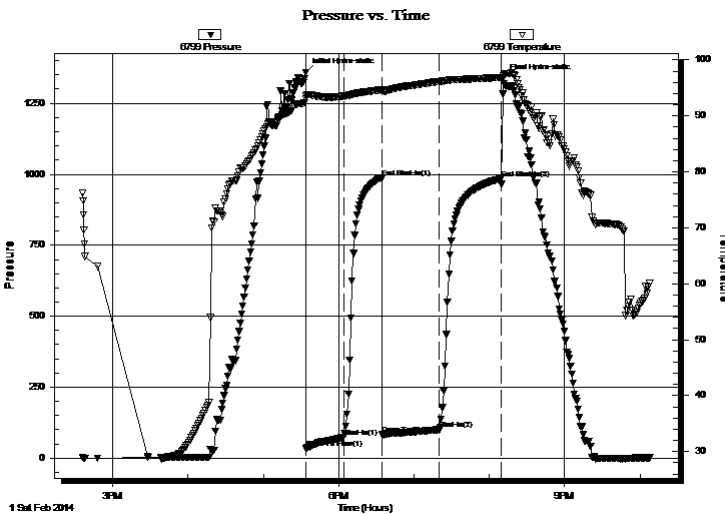
2014.02.01 @ 17:33:45

Time Off Btm:

2014.02.01 @ 20:11:00

TEST COMMENT: 30 - IF- 9" blow
30 - ISI-No return
45 - FF- 3 1/2" blow
45 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1358.95	93.67	Initial Hydro-static
1	33.46	93.14	Open To Flow (1)
31	73.68	93.53	Shut-In(1)
61	986.33	94.66	End Shut-In(1)
61	84.94	94.44	Open To Flow (2)
107	100.47	96.16	Shut-In(2)
156	984.97	96.89	End Shut-In(2)
158	1337.57	97.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
140.00	WM - Spots of oil, 40%W, 60%M	0.87

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer Inc

34-14s-9w Ellsworth KS

PO Box 352
Russell KS 67665

Haase #1

Job Ticket: 56062

DST#: 1

ATTN: Austin Klaus

Test Start: 2014.02.01 @ 14:36:00

Tool Information

Drill Pipe:	Length: 2591.00 ft	Diameter: 3.80 inches	Volume: 36.34 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 36.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	2706.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 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
Change Over Sub	1.00			2686.00	
Shut In Tool	5.00			2691.00	
Hydraulic tool	5.00			2696.00	
Packer	5.00			2701.00	21.00 Bottom Of Top Packer
Packer	5.00			2706.00	
Stubb	1.00			2707.00	
Perforations	3.00			2710.00	
Change Over Sub	1.00			2711.00	
Drill Pipe	31.00			2742.00	
Change Over Sub	1.00			2743.00	
Recorder	0.00	6799	Inside	2743.00	
Recorder	0.00	8655	Outside	2743.00	
Perforations	10.00			2753.00	
Bullnose	3.00			2756.00	50.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer Inc

34-14s-9w Ellsworth KS

PO Box 352
Russell KS 67665

Haase #1

Job Ticket: 56062

DST#: 1

ATTN: Austin Klaus

Test Start: 2014.02.01 @ 14:36:00

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
140.00	WM - Spots of oil, 40%W, 60%M	0.871

Total Length: 140.00 ft Total Volume: 0.871 bbl

Num Fluid Samples: 0

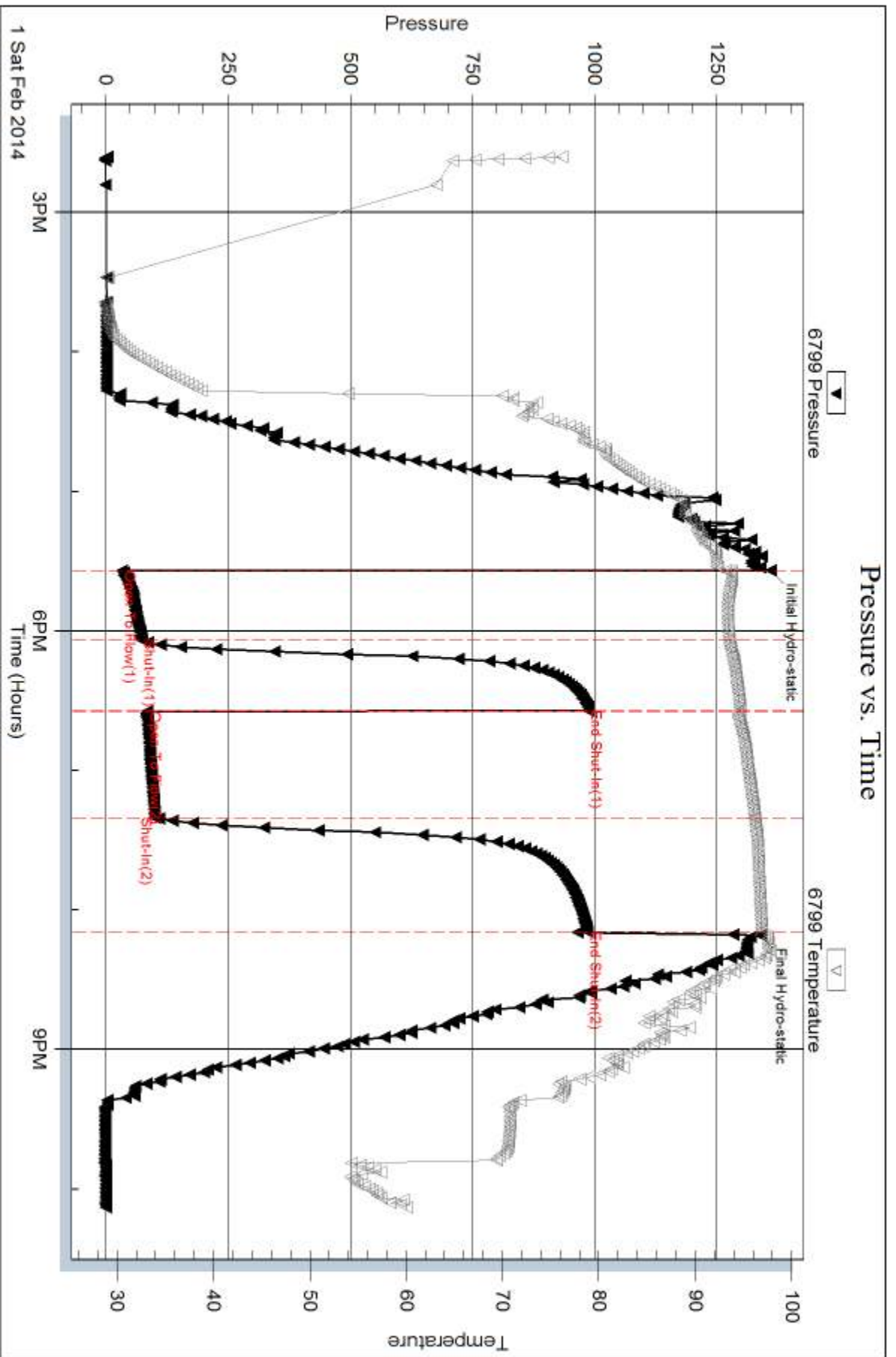
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

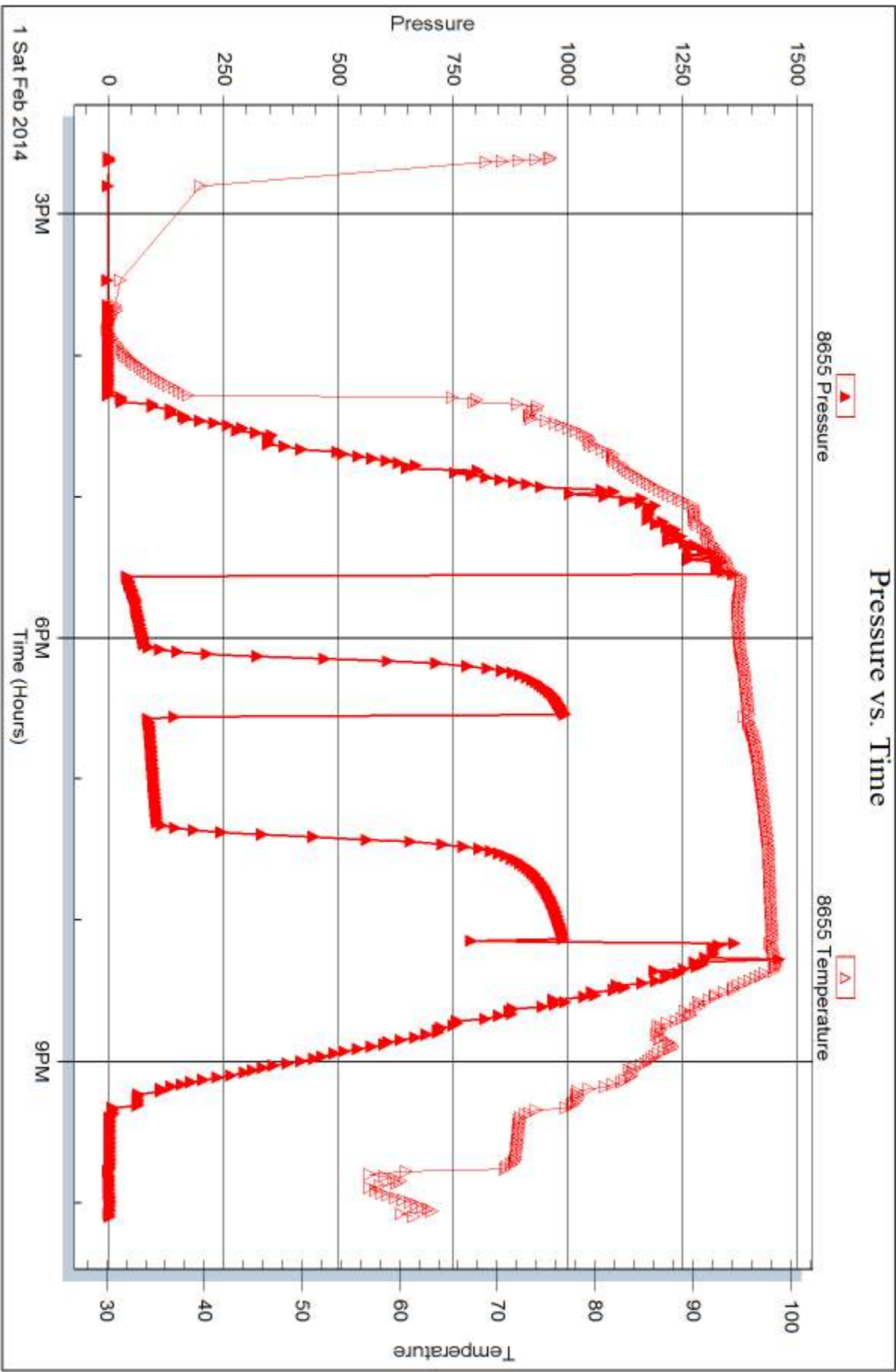


Serial #: 8655

Outside John O. Farmer Inc

Haase #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 56062

Printed: 2014.02.05 @ 11:06:21



DRILL STEM TEST REPORT

Prepared For: **John O. Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

Haase #1

34-14s-9w Ellsworth KS

Start Date: 2014.02.02 @ 06:55:00

End Date: 2014.02.02 @ 13:08:00

Job Ticket #: 56063 DST #: 2

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

Printed: 2014.02.05 @ 11:05:47



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O. Farmer Inc

34-14s-9w Ellsworth KS

PO Box 352
Russell KS 67665

Haase #1

Job Ticket: 56063

DST#: 2

ATTN: Austin Klaus

Test Start: 2014.02.02 @ 06:55:00

GENERAL INFORMATION:

Formation: **LKC "E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:17:00

Time Test Ended: 13:08:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 73

Interval: 2764.00 ft (KB) To 2792.00 ft (KB) (TVD)

Reference Elevations: 1623.00 ft (KB)

Total Depth: 2792.00 ft (KB) (TVD)

1613.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8655 Outside

Press@RunDepth: 17.98 psig @ 2768.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.02 End Date: 2014.02.02

Last Calib.: 2014.02.02

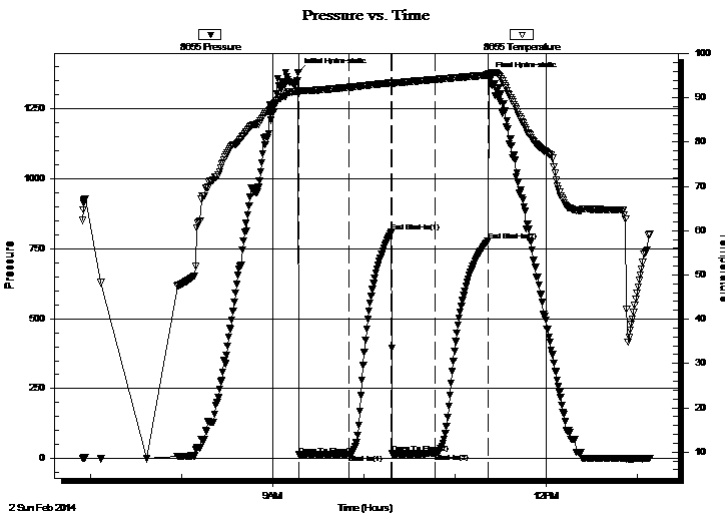
Start Time: 06:55:05 End Time: 13:07:59

Time On Btm: 2014.02.02 @ 09:16:45

Time Off Btm: 2014.02.02 @ 11:22:00

TEST COMMENT: 30 - IF- 1" blow
30 - IS- No return
30 - FF- No blow
30 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1379.61	91.62	Initial Hydro-static
1	13.29	90.96	Open To Flow (1)
34	15.29	92.36	Shut-In(1)
62	809.46	93.37	End Shut-In(1)
62	17.70	93.21	Open To Flow (2)
91	17.98	94.12	Shut-In(2)
125	778.50	95.11	End Shut-In(2)
126	1363.46	95.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	MW, 2%W, 98%M	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer Inc

34-14s-9w Ellsworth KS

PO Box 352
Russell KS 67665

Haase #1

Job Ticket: 56063

DST#: 2

ATTN: Austin Klaus

Test Start: 2014.02.02 @ 06:55:00

Tool Information

Drill Pipe:	Length: 2652.00 ft	Diameter: 3.80 inches	Volume: 37.20 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 37.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	2764.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			2744.00	
Shut In Tool	5.00			2749.00	
Hydraulic tool	5.00			2754.00	
Packer	5.00			2759.00	21.00 Bottom Of Top Packer
Packer	5.00			2764.00	
Stubb	1.00			2765.00	
Perforations	3.00			2768.00	
Recorder	0.00	6799	Inside	2768.00	
Recorder	0.00	8655	Outside	2768.00	
Perforations	21.00			2789.00	
Bullnose	3.00			2792.00	28.00 Bottom Packers & Anchor

Total Tool Length: 49.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer Inc

34-14s-9w Ellsworth KS

PO Box 352
Russell KS 67665

Haase #1

Job Ticket: 56063

DST#: 2

ATTN: Austin Klaus

Test Start: 2014.02.02 @ 06:55:00

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	MW, 2%W, 98%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

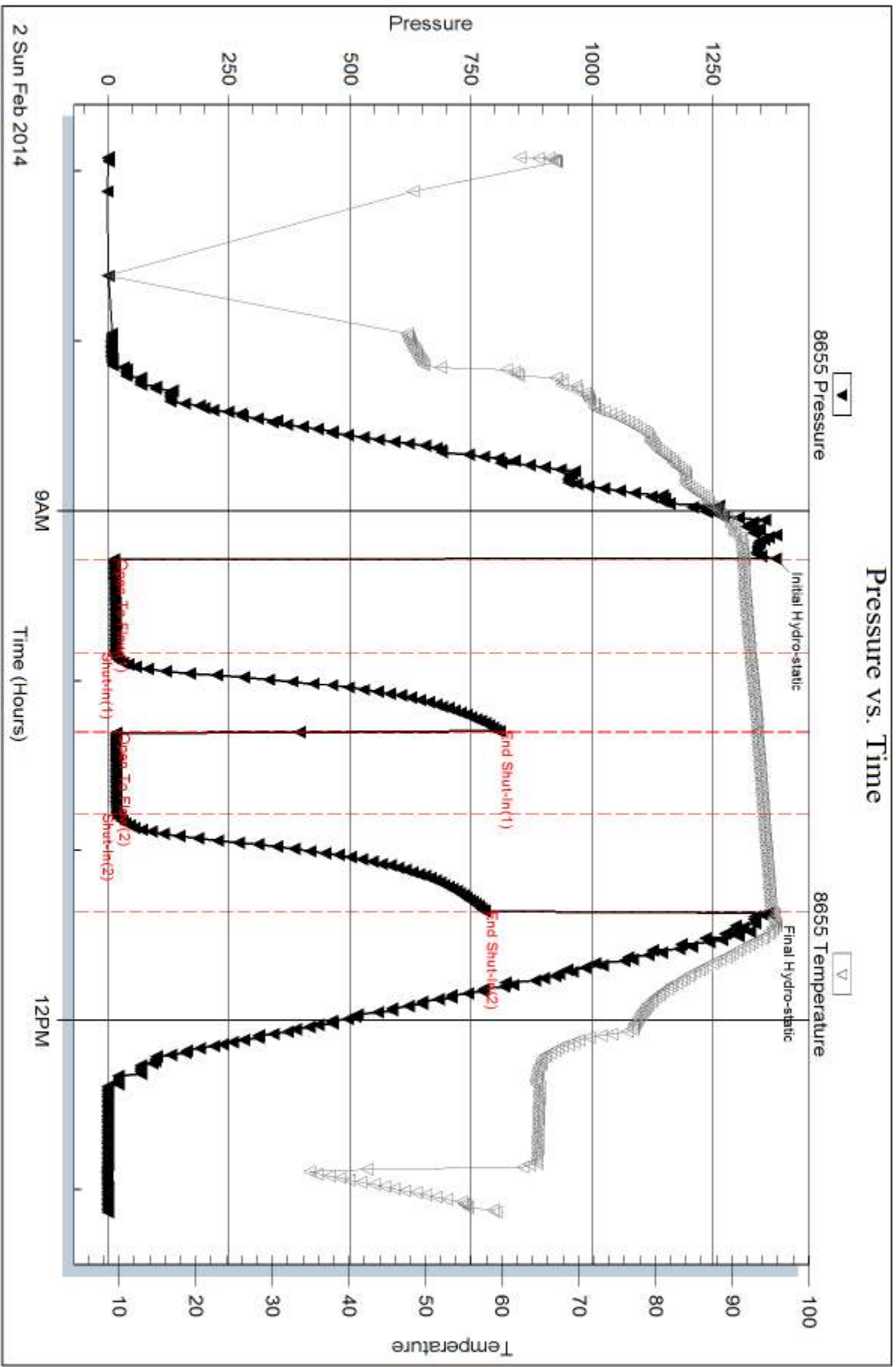
Num Gas Bombs: 0

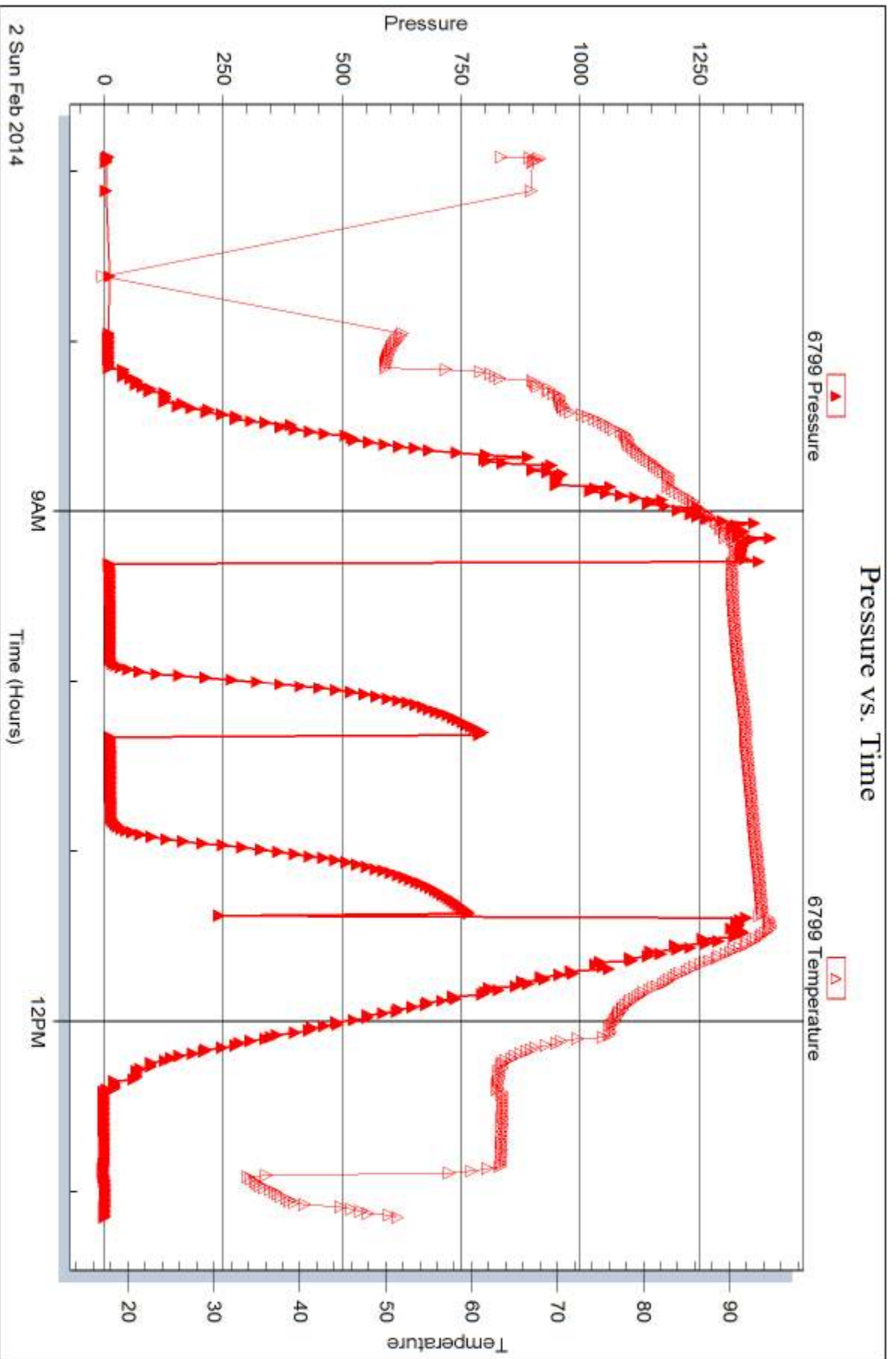
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **John O. Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

Haase #1

34-14s-9w Ellsworth KS

Start Date: 2014.02.02 @ 20:19:00

End Date: 2014.02.03 @ 03:16:00

Job Ticket #: 56064 DST #: 3

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

Printed: 2014.02.05 @ 11:04:39



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O. Farmer Inc

34-14s-9w Ellsworth KS

PO Box 352
Russell KS 67665

Haase #1

Job Ticket: 56064

DST#: 3

ATTN: Austin Klaus

Test Start: 2014.02.02 @ 20:19:00

GENERAL INFORMATION:

Formation: **LKC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:27:30

Time Test Ended: 03:16:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 73

Interval: 2793.00 ft (KB) To 2807.00 ft (KB) (TVD)

Reference Elevations: 1623.00 ft (KB)

Total Depth: 2807.00 ft (KB) (TVD)

1613.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8655 Outside

Press@RunDepth: 24.18 psig @ 2794.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.02

End Date:

2014.02.03

Last Calib.:

2014.02.03

Start Time: 20:19:05

End Time:

03:15:59

Time On Btm:

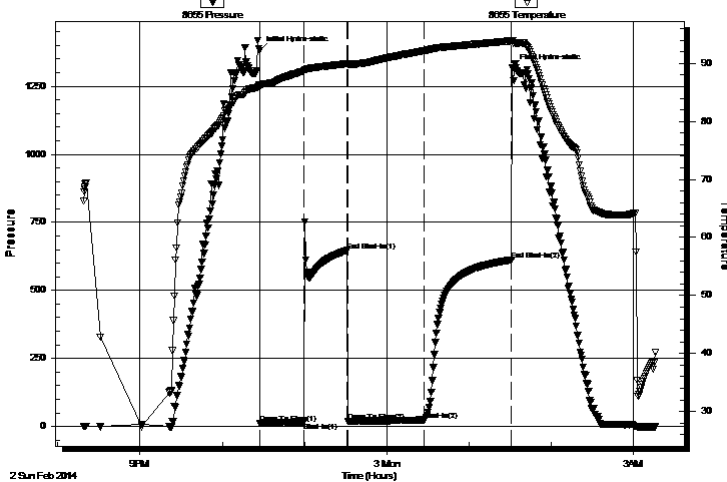
2014.02.02 @ 22:27:15

Time Off Btm:

2014.02.03 @ 01:31:45

TEST COMMENT: 30 - IF-1" blow
30 - IS- No return
60 - FF- Surface blow, died in 21 minutes
60 - FS- No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1381.77	86.21	Initial Hydro-static
1	12.36	85.87	Open To Flow (1)
33	16.85	88.70	Shut-In(1)
64	646.74	89.95	End Shut-In(1)
65	19.34	89.85	Open To Flow (2)
120	24.18	92.19	Shut-In(2)
184	612.12	93.90	End Shut-In(2)
185	1316.50	93.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud, 100%M	0.05

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer Inc

34-14s-9w Ellsworth KS

PO Box 352
Russell KS 67665

Haase #1

Job Ticket: 56064

DST#: 3

ATTN: Austin Klaus

Test Start: 2014.02.02 @ 20:19:00

Tool Information

Drill Pipe:	Length: 2716.00 ft	Diameter: 3.80 inches	Volume: 38.10 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose:	52000.00 lb
			<u>Total Volume: 38.40 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	2793.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	14.00 ft				
Tool Length:	35.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Driller pulled past string weight when we went to shut tool in on first shut in.
Did not effect test.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2773.00	
Shut In Tool	5.00			2778.00	
Hydraulic tool	5.00			2783.00	
Packer	5.00			2788.00	21.00 Bottom Of Top Packer
Packer	5.00			2793.00	
Stubb	1.00			2794.00	
Recorder	0.00	6799	Inside	2794.00	
Recorder	0.00	8655	Outside	2794.00	
Perforations	10.00			2804.00	
Bullnose	3.00			2807.00	14.00 Bottom Packers & Anchor
Total Tool Length:	35.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer Inc

34-14s-9w Ellsworth KS

PO Box 352
Russell KS 67665

Haase #1

Job Ticket: 56064

DST#: 3

ATTN: Austin Klaus

Test Start: 2014.02.02 @ 20:19:00

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud, 100%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

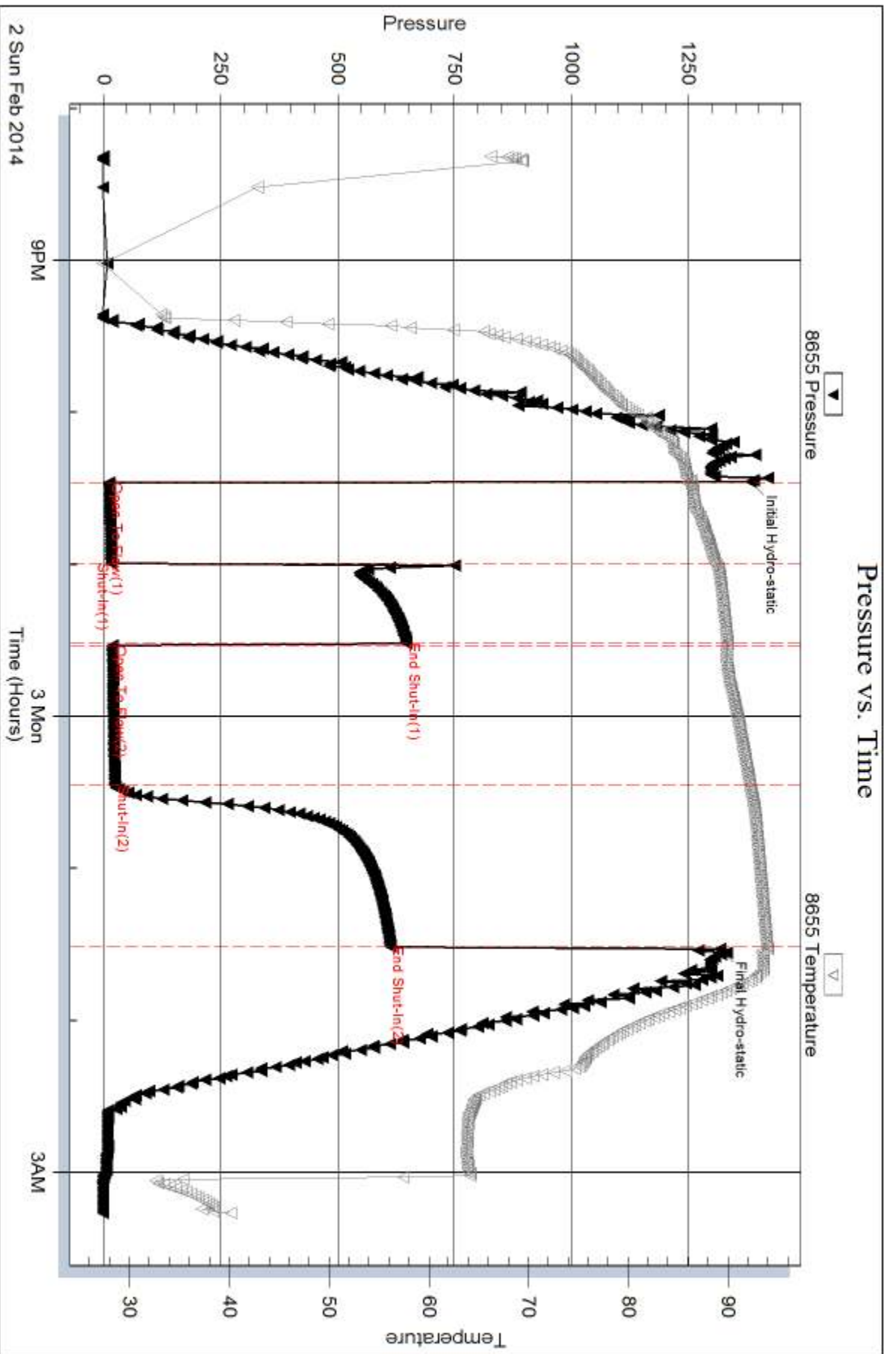
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



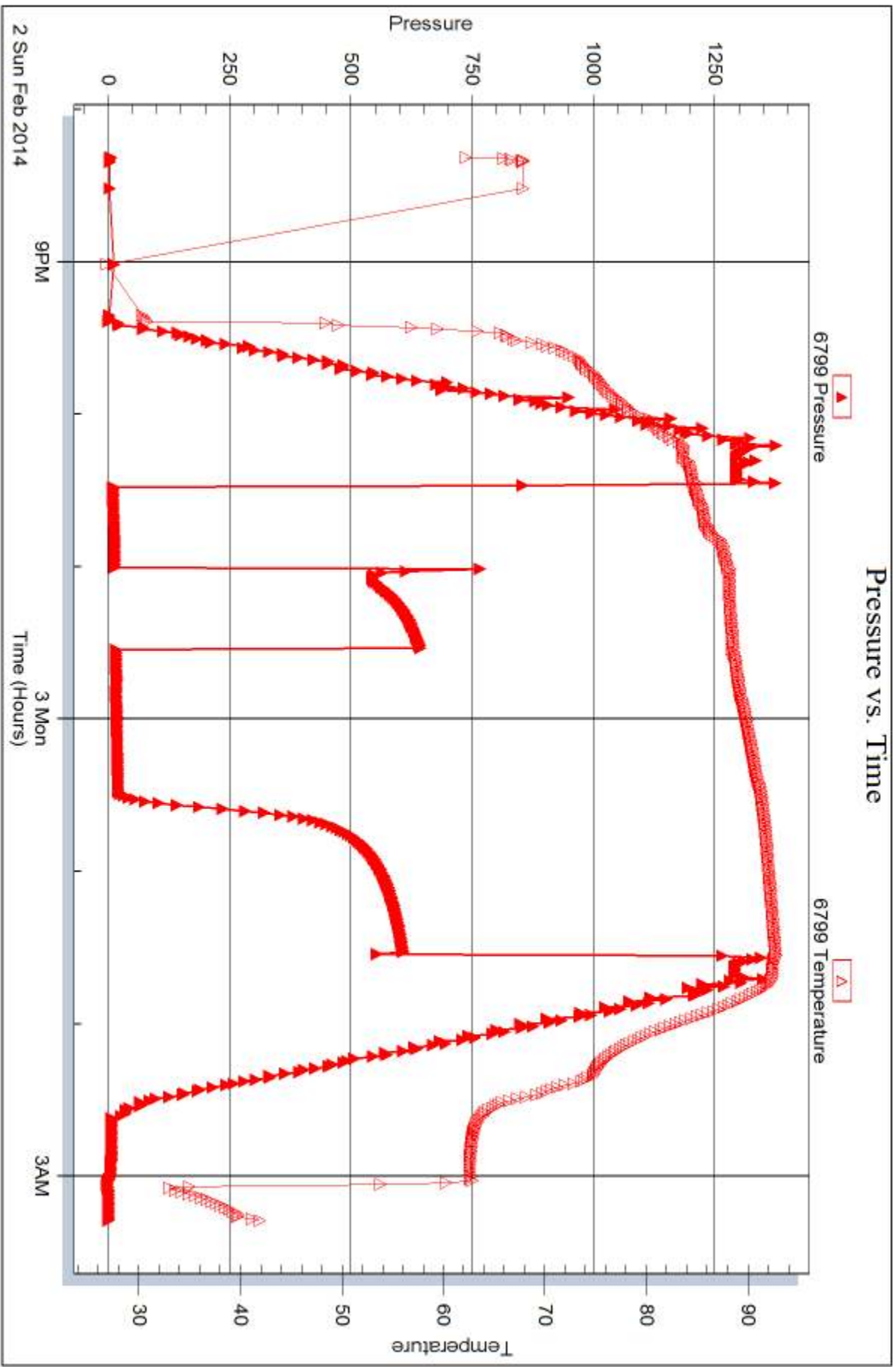
Serial #: 6799

Inside

John O. Farmer Inc

Haase #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 56064

Printed: 2014.02.05 @ 11:04:41



DRILL STEM TEST REPORT

Prepared For: **John O. Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

Haase #1

34-14s-9w Ellsworth KS

Start Date: 2014.02.03 @ 10:42:00

End Date: 2014.02.03 @ 16:17:15

Job Ticket #: 56065 DST #: 4

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

Printed: 2014.02.05 @ 11:03:48



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O. Farmer Inc

34-14s-9w Ellsworth KS

PO Box 352
Russell KS 67665

Haase #1

Job Ticket: 56065

DST#: 4

ATTN: Austin Klaus

Test Start: 2014.02.03 @ 10:42:00

GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:24:00

Time Test Ended: 16:17:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 73

Interval: 2806.00 ft (KB) To 2821.00 ft (KB) (TVD)

Reference Elevations: 1623.00 ft (KB)

Total Depth: 2821.00 ft (KB) (TVD)

1613.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8655 Outside

Press@RunDepth: 134.69 psig @ 2807.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.03

End Date:

2014.02.03

Last Calib.:

2014.02.03

Start Time:

10:42:05

End Time:

16:17:14

Time On Btm:

2014.02.03 @ 12:23:45

Time Off Btm:

2014.02.03 @ 14:25:00

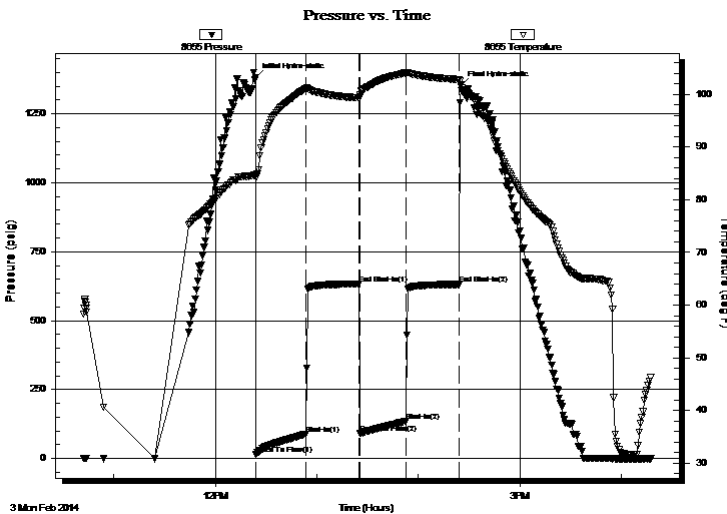
TEST COMMENT: 30 - IF- B.O.B. in 18 minutes

30 - IS- No return

30 - FF-7" blow

30 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1382.05	84.54	Initial Hydro-static
1	15.37	84.27	Open To Flow (1)
30	89.10	101.09	Shut-In(1)
61	633.16	99.34	End Shut-In(1)
62	90.95	99.52	Open To Flow (2)
89	134.69	104.09	Shut-In(2)
121	631.59	102.81	End Shut-In(2)
122	1353.98	101.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	MW, 5%M, 95%W	2.06
82.00	MW, 40%M, 60%W	1.15

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer Inc

34-14s-9w Ellsworth KS

PO Box 352
Russell KS 67665

Haase #1

Job Ticket: 56065

DST#: 4

ATTN: Austin Klaus

Test Start: 2014.02.03 @ 10:42:00

Tool Information

Drill Pipe:	Length: 2747.00 ft	Diameter: 3.80 inches	Volume: 38.53 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 38.83 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	2806.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	36.00 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			2786.00	
Shut In Tool	5.00			2791.00	
Hydraulic tool	5.00			2796.00	
Packer	5.00			2801.00	21.00 Bottom Of Top Packer
Packer	5.00			2806.00	
Stubb	1.00			2807.00	
Recorder	0.00	6799	Inside	2807.00	
Recorder	0.00	8655	Outside	2807.00	
Perforations	11.00			2818.00	
Bullnose	3.00			2821.00	15.00 Bottom Packers & Anchor
Total Tool Length:	36.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer Inc

34-14s-9w Ellsworth KS

PO Box 352
Russell KS 67665

Haase #1

Job Ticket: 56065

DST#: 4

ATTN: Austin Klaus

Test Start: 2014.02.03 @ 10:42:00

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:

35000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	MW, 5%M, 95%W	2.063
82.00	MW, 40%M, 60%W	1.150

Total Length: 268.00 ft Total Volume: 3.213 bbl

Num Fluid Samples: 0

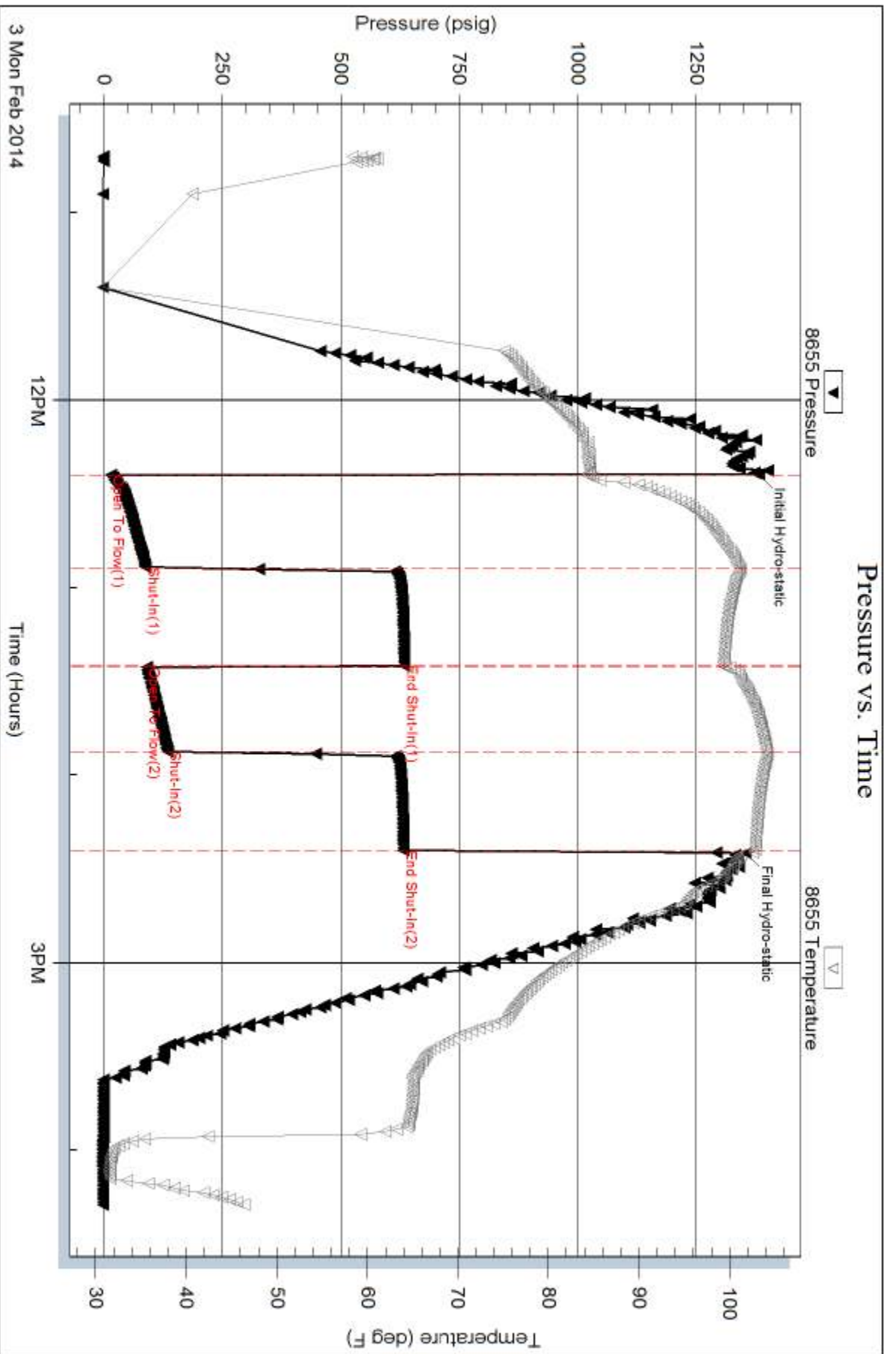
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .44 @ 40 Degrees = 35000



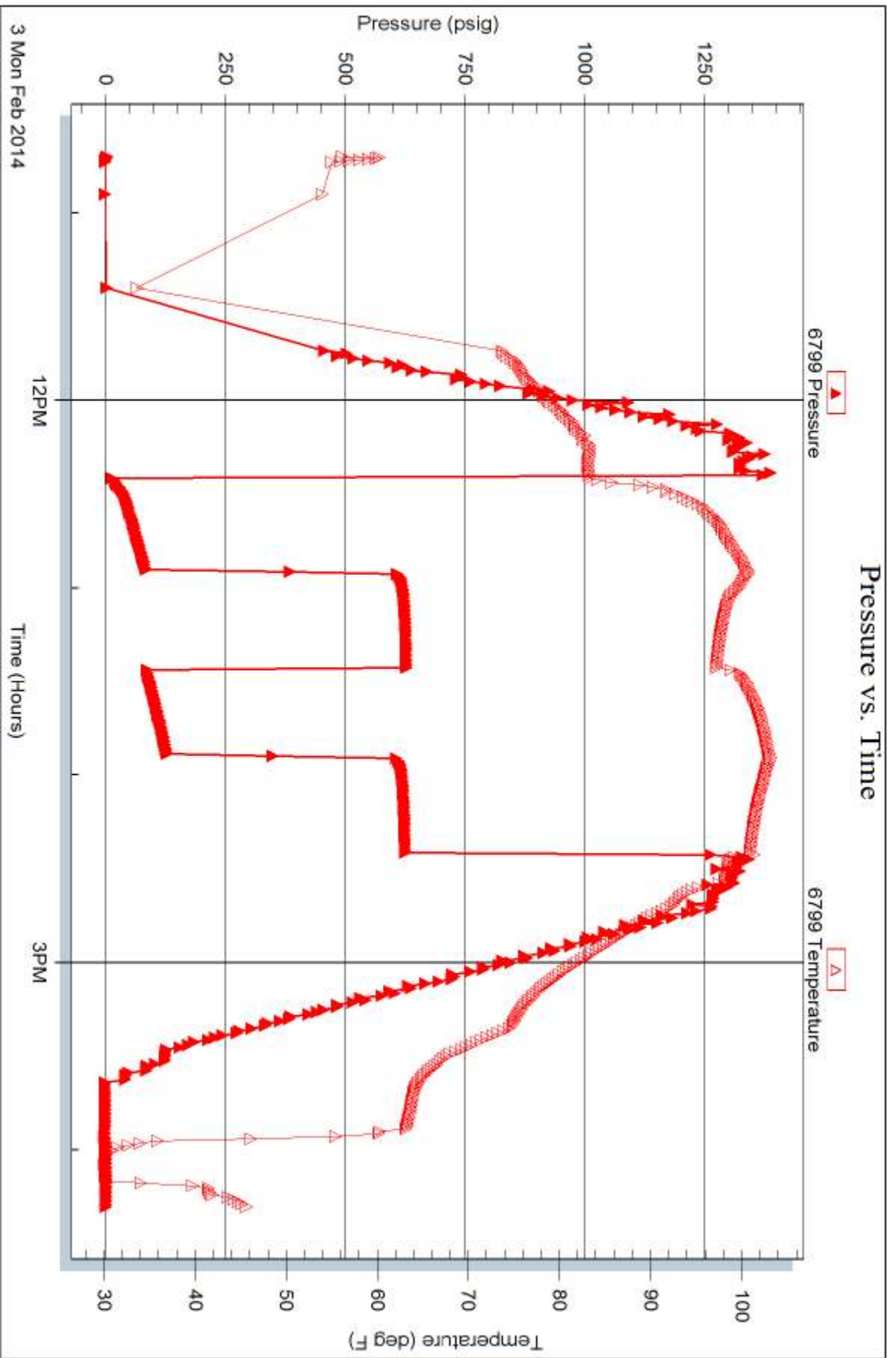
Serial #: 6799

Inside

John O. Farmer Inc

Haase #1

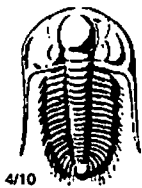
DST Test Number: 4



Tribble Testing, Inc

Ref. No: 56065

Printed: 2014.02.05 @ 11:03:50



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

56062

NO.

Well Name & No. Haase #1 Test No. 1 Date 2-1-14
 Company John O. Forman INC Elevation 1623 KB 1613 GL
 Address Po Box 352 Russell KS, 67665
 Co. Rep / Geo. Austin Klaus Rig Val #6
 Location: Sec. 34 Twp. 14s Rge. 9w Co. Ellsworth State KS

Interval Tested 2706 - 2756 Zone Tested LKC "A-C"
 Anchor Length 50' Drill Pipe Run 2591' Mud Wt. 9.1
 Top Packer Depth 2701 Drill Collars Run 120' Vis 51
 Bottom Packer Depth 2706 Wt. Pipe Run — WL 8.0
 Total Depth 2756 Chlorides 3,500 ppm System LCM —

Blow Description IF-9" blow
ISI - No return
FF-3 1/2" blow
FSI - No return

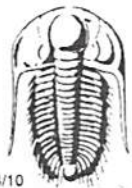
Rec	Feet of	%gas	%oil	%water	%mud
<u>140</u>	<u>WM - spots of oil</u>			<u>40</u>	<u>60</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 140' BHT _____ Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic _____ Test 1150 T-On Location 1314
 (B) First Initial Flow _____ Jars _____ T-Started 1436
 (C) First Final Flow _____ Safety Joint _____ T-Open 1734
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 2004
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 2207
 (F) Second Final Flow _____ Mileage 123RT 190.65 Comments Hotel
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic _____ Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1340.65
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1340.65

Approved By _____ Our Representative Cody Bleda

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. **56063**

4/10

Well Name & No. Haase #1 Test No. 2 Date 2-2-14
 Company John O. Farmer INC Elevation 1623 KB 1613 GL
 Address Po Box 352, Russell KS, 67665
 Co. Rep / Geo. Austin Klaus Rig Val #6
 Location: Sec. 34 Twp. 14s Rge. 9w Co. Ellsworth State KS

Interval Tested 2764-2792 Zone Tested LKC "E"
 Anchor Length 28' Drill Pipe Run 2652' Mud Wt. 9.1
 Top Packer Depth 2759 Drill Collars Run 120' Vis 51
 Bottom Packer Depth 2764 Wt. Pipe Run — WL 8.0
 Total Depth 2792 Chlorides 3,500 ppm System LCM —
 Blow Description IF-1" blow
ISI- No return
FF- No blow
FSI- No return

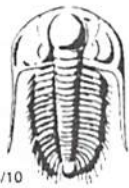
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MW</u>		<u>2</u>	<u>98</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5' BHT 95° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1379 Test 1150 T-On Location 0623
 (B) First Initial Flow 13 Jars — T-Started 0655
 (C) First Final Flow 15 Safety Joint — T-Open 0917
 (D) Initial Shut-In 809 Circ Sub — T-Pulled 1117
 (E) Second Initial Flow 17 Hourly Standby — T-Out 1308
 (F) Second Final Flow 17 Mileage 123RT 190.65 Comments Hotel
 (G) Final Shut-In 778 Sampler —
 (H) Final Hydrostatic 1363 Straddle — Ruined Shale Packer —
 Shale Packer — Ruined Packer —
 Extra Packer — Extra Copies —
 Extra Recorder — Sub Total 0
 Day Standby — Total 1340.65
 Accessibility — MP/DST Disc't —
 Sub Total 1340.65

Approved By _____ Our Representative Cody Bloodorn

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. 56064

Well Name & No. Haase #1 Test No. 3 Date 2-2-14
 Company John o. Farmer INC Elevation 1623 KB 1613 GL
 Address Po Box 352, Russell KS, 67665
 Co. Rep / Geo. Austin Klaus Rig Val #6
 Location: Sec. 34 Twp. 14s Rge. 9w Co. Ellsworth State KS

Interval Tested 2793 - 2807 Zone Tested LKC "F"
 Anchor Length 14' Drill Pipe Run 2716' Mud Wt. 9.3
 Top Packer Depth 2787 Drill Collars Run 60' Vis 46
 Bottom Packer Depth 2793 Wt. Pipe Run - WL 9.2
 Total Depth 2807 Chlorides 7,100 ppm System LCM -
 Blow Description IF - 1" blow
ISI - No return
FF - Surface blow, died in 21 minutes
FSI - No return

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 <u>* Driller Pulled past</u>	%gas	%oil	%water	%mud
Rec	Feet of <u>string weight on</u>	%gas	%oil	%water	%mud
Rec	Feet of <u>first shut in. *</u>	%gas	%oil	%water	%mud

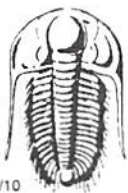
Rec Total 10' BHT 93° Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1381</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1950</u>
(B) First Initial Flow <u>12</u>	<input type="checkbox"/> Jars	T-Started <u>2019</u>
(C) First Final Flow <u>16</u>	<input type="checkbox"/> Safety Joint	T-Open <u>2228</u>
(D) Initial Shut-In <u>646</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0128</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0318</u>
(F) Second Final Flow <u>24</u>	<input checked="" type="checkbox"/> Mileage <u>123RT</u> 190.65	Comments <u>Hotel</u>
(G) Final Shut-In <u>612</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1316</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1340.65</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1340.65</u>	

Approved By _____ Our Representative Cody R. [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **56065**

Well Name & No. Haase #1 Test No. 4 Date 2-3-14
 Company John O. Farmer Inc Elevation 1623 KB 1613 GL
 Address Po Box 352, Russell KS, 67665
 Co. Rep / Geo. Austin Klaus Rig Val #6
 Location: Sec. 34 Twp. 14S Rge. 9W Co. Ellsworth State KS

Interval Tested 2806 - 2821 Zone Tested LKC "6"
 Anchor Length 15 Drill Pipe Run 2747' Mud Wt. 9.3
 Top Packer Depth 2801 Drill Collars Run 60' Vis 46
 Bottom Packer Depth 2806 Wt. Pipe Run — WL 9.2
 Total Depth 2821 Chlorides 7,100 ppm System LCM —

Blow Description IF - B.O.B. in 18 minutes
ISI - No return
FF - 7" blow
FSI - No return

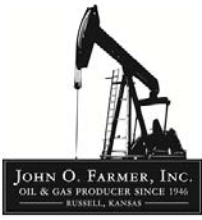
Rec	Feet of	%gas	%oil	%water	%mud
<u>186</u>	<u>MW</u>		<u>9.5</u>	<u>5</u>	
<u>82</u>	<u>MW</u>		<u>60</u>	<u>40</u>	

Rec Total 268' BHT 102° Gravity — API RW .44 @ 40 °F Chlorides 35,000 ppm

(A) Initial Hydrostatic 1382 Test 1150 T-On Location 1026
 (B) First Initial Flow 15 Jars — T-Started 1042
 (C) First Final Flow 89 Safety Joint — T-Open 1223
 (D) Initial Shut-In 633 Circ Sub — T-Pulled 1423
 (E) Second Initial Flow 90 Hourly Standby — T-Out 1617
 (F) Second Final Flow 134 Mileage 123 RT 190.65 Comments —
 (G) Final Shut-In 631 Sampler —
 (H) Final Hydrostatic 1353 Straddle — Ruined Shale Packer —
 Shale Packer — Ruined Packer —
 Extra Packer — Extra Copies —
 Initial Open 30 Extra Recorder — Sub Total 0
 Initial Shut-In 30 Day Standby — Total 1340.65
 Final Flow 30 Accessibility — MP/DST Disc't —
 Final Shut-In 30 Sub Total 1340.65

Approved By _____

Our Representative Cody Black



AUSTIN B. KLAUS



Cell 785.650.3629
Work 785.483.3145
Ext 225

PO BOX 352
Russell, KS 67665
austin.klaus@johnofarmer.com

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Haase #1
Location: Ellsworth County
License Number: API # 15-053-21303-0000
Spud Date: 1/27/14
Surface Coordinates: Section 34 - Township 14 South - Range 9 West
2,400' FWL & 835' FWL
Bottom Hole Coordinates: Vertical well with minimal deviation, same as above
Ground Elevation (ft): 1,613' **K.B. Elevation (ft):** 1,623'
Logged Interval (ft): 2,300' **To:** RTD **Total Depth (ft):** 3,020'
Formation: Lansing
Type of Drilling Fluid: Chemical (Mud Co.)

Region: Kansas

Drilling Completed: 2/4/14

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: John O. Farmer, Inc.
Address: P.O. Box 352
Russell, KS 67665

Comments

The Haase #1 well was drilled by Val Energy Rig #6 (Tool Pusher: Randy Martin).

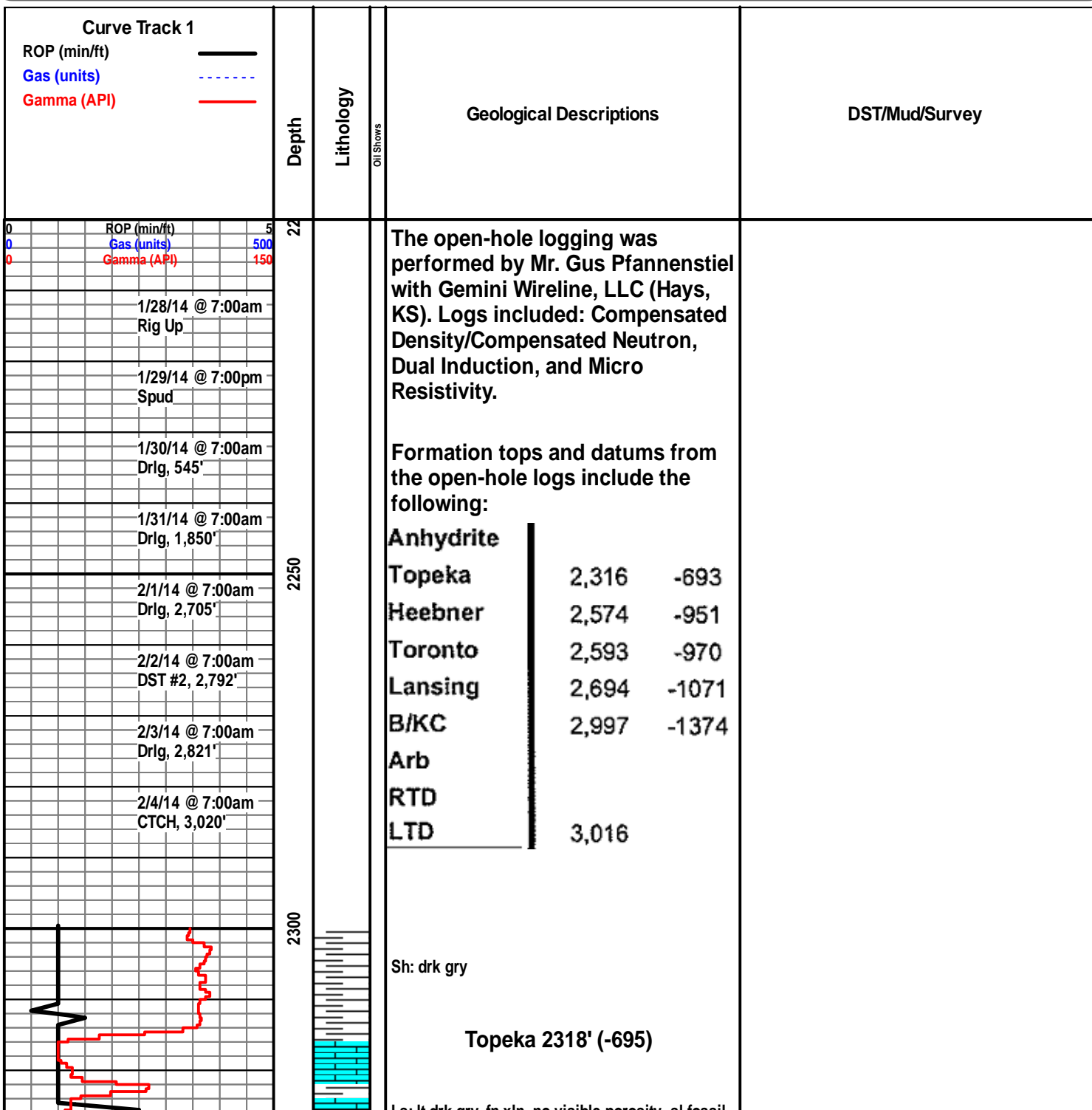
The location for the Haase #1 well was found via 3-D seismic survey. Geologic samples were collected and evaluated from 2,200'-3,020'. Structurally, the Haase #1 ran 10' high the nearest producing well. Four bottom-hole tests were conducted in the LNSG, all of which yielded negative results. Detailed electric logs were run from 2,300-3,020'. After all sample, log, and drill stem test data was gathered and evaluated, the decision was made to plug and abandon the Haase #1 well on 2/4/14.

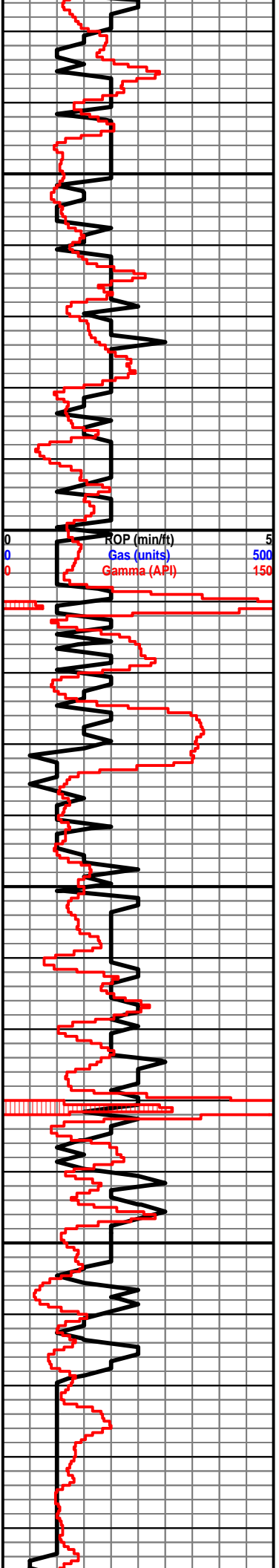
ROCK TYPES

 Anhy	 Clyst	 Gyp	 Mrlst	 Shgy
 Bent	 Coal	 Igne	 Salt	 Sltst
 Brec	 Congl	 Lmst	 Shale	 Ss
 Cht	 Dol	 Meta	 Shcol	 Till

OTHER SYMBOLS

POROSITY	<input checked="" type="checkbox"/> Vuggy	ROUNDING	<input type="checkbox"/> Spotted	EVENT
<input type="checkbox"/> Earthy	SORTING	<input type="checkbox"/> Rounded	<input type="checkbox"/> Ques	<input type="checkbox"/> Rft
<input type="checkbox"/> Fenest	<input type="checkbox"/> Well	<input type="checkbox"/> Subrnd	<input type="checkbox"/> Dead	<input type="checkbox"/> Sidewall
<input type="checkbox"/> Fracture	<input type="checkbox"/> Moderate	<input type="checkbox"/> Subang	INTERVAL	
<input type="checkbox"/> Inter	<input type="checkbox"/> Poor	<input type="checkbox"/> Angular	<input type="checkbox"/> Core	
<input type="checkbox"/> Moldic		OIL SHOW	<input type="checkbox"/> Dst	
<input type="checkbox"/> Organic		<input type="checkbox"/> Even		
<input type="checkbox"/> Pinpoint				





Sh: drk gry

Sh: lt gry, soft

Ls: lt gry, fn-sub xln, mostly DNS, scat sltst

Ls: tan-lt gry, fn xln, mostly DNS, scat chert-off wh

Ls: ala

Sh: drk gry

Ls: tan-gry, fn-sub xln, mostly DNS, scat sltst, scat pyrite

Sh: lt-drk gry, scat sltst

Ls: tan-brn-gry, fn xln, poor int xln porosity, fossil, sl chalky

Ls: ala

Sh: lt-drk gry, few pcs soft

Ls: tan-brn, fn xln, scat poor int xln porosity, scat chert-off wh

Ls: lt gry-tan, fn-sub xln, mostly DNS, scat chert-off wh

Ls: ala

Ls: tan-brn, fn xln, scat int xln porosity, mostly barren, chalky, scat sltst

Sh: gry

Ls: tan-lt gry, fn-sub xln, mostly DNS, sl fossil

Ls: tan-lt gry, fn xln, poor int xln porosity, scat oil st, NSFO, no odor, sl fossil

Sh: drk gry, scat sltst

Sh: ala

Ls: tan-gry, fn xln, mostly DNS, scat fossil, sl chalky

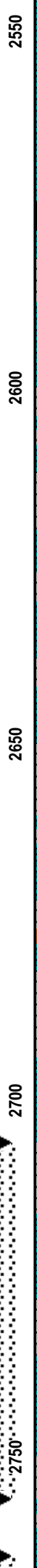
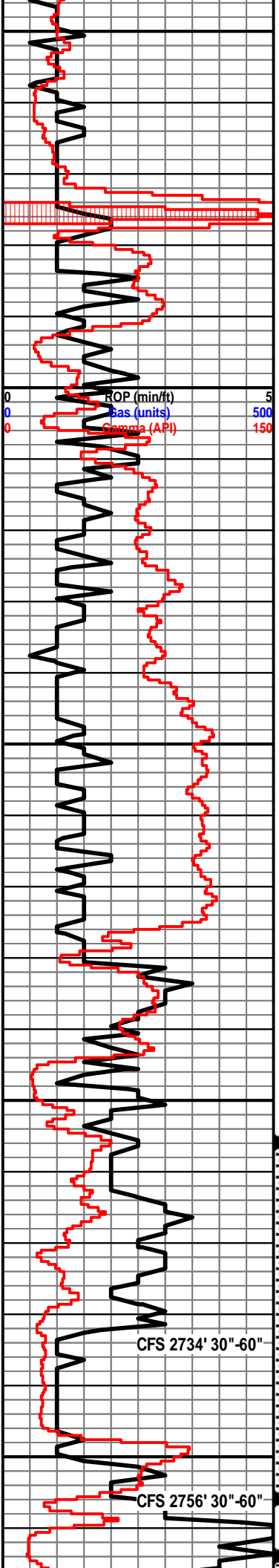
Ls: lt gry, fn-sub xln, mostly DNS, scat fossil, scat

2350

2400

2450

2500



Ls: lt gry-tan, fn-sub xln, mostly DNS, fossil, scat
qtz: off wh, sub rnd, poorly sorted, fairly well cemented, DNS

Ls: ala

Ls: tan-gry, fn xln, mostly DNS, no visible porosity, scat chert-off wh

Heebner 2578' (-955)

Sh: blk, carb, fissile

Ls: off wh-tan, fn xln, poor int xln porosity, sl chalky

Toronto 2597' (-974)

Ls: off wh, fn xln, poor int xln porosity, scat oil st, VSSFO, sl odor

Ls: tan-gry, fn-sub xln, mostly DNS, scat chert-off wh, sl chalky, scat sltst

Ls: ala

Ls: tan-gry, fn-sub xln, mostly DNS, chert-off wh, sl fossil

Ls: tan-brn, fn xln, vry poor int xln porosity, scat oil st, NSFO, no odor, fossil

Sh: drk gry, few pcs soft

Ls: tan-gry, fn-sub xln, mostly DNS

Sh: drk gry-grn-brn, soft

Slst: drk gry

Sh: drk gry-brn, soft

Lansing 2704' (-1081)

Ls: off wh-tan, fn xln, ool, fair oom porosity, vry lt oil st, VSSFO, lt odor, sl chalky

Ls: off wh-tan, fn xln, scat pp vuggy porosity, chalky, sl chert-off wh

Sh: lt-drk gry-brn

Ls: off wh, fn xln, ool, fair-good oom porosity, mostly barren, vry lt oil sat, VSSFO, sl odor

Ls: off wh, fn xln, ool, fair-good oom porosity, sl oil sat, SSFO, sl odor, chert-off wh, sl chalky

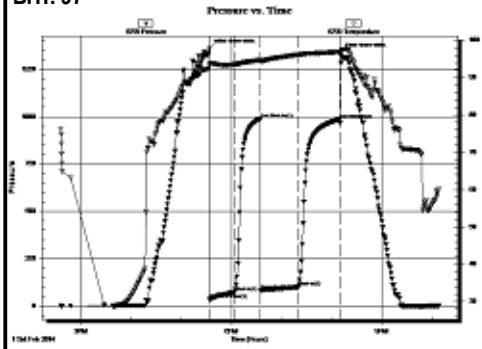
Sh: drk gry

Ls: tan-gry, fn xln, poor int xln porosity, mostly barren. NSFO. scat pyrite

Wt: 9.1
Vis: 51

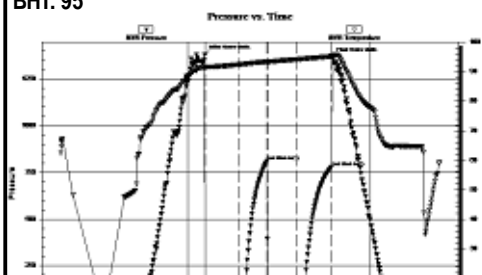
DST #1 2,706-2,756' (LKC A-C)
30"-30"-45"-45"

IF: weak blow, built to 9"
FF: weak blow built to 3.5"
Rec: 140' WM (40% W, 60% M)
FP: 33-74, 85-100#
SIP: 986-985#
HP: 1,359-1,338#
BHT: 97



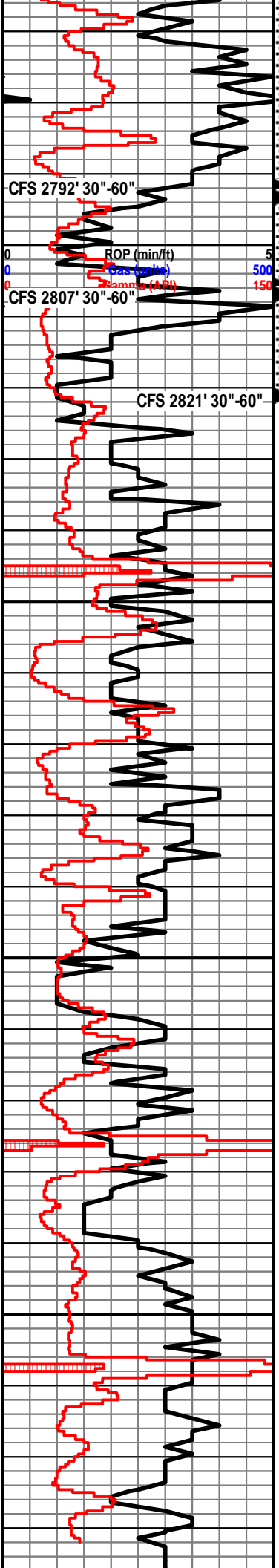
DST #2 2,764-2,792' (LKC E)
30"-30"-30"-30"

IF: weak blow, built to 1"
FF: no blow
Rec: 5' WM (2% W, 98% M)
FP: 13-15, 18-18#
SIP: 809-779#
HP: 1,380-1,364#
BHT: 95



CFS 2734' 30"-60"

CFS 2756' 30"-60"



Sh: gry-brn

Ls: tan-lt gry, fn xln, poor int xln porosity, sl oil st, VSSFO, sl odor, scat fossil

Sh: drk gry-brn

Ls: off wh, fn xln, ool, fair oom porosity, lt oil st, SSFO, sl-fair odor, chalky, sl chert-off wh

CFS 2792' 30"-60"

ROP (min/ft)

Gas (mg/cc)

Gamma (API)

CFS 2807' 30"-60"

CFS 2821' 30"-60"

Sh: gry

Ls: off wh, fn xln, ool, fair-good oom porosity, mostly barren, NSFO, sl chert-off wh

Sh: drk gry-brn

Ls: tan-gry, fn xln, ool, fair oom porosity, barren, NSFO, scat chert-off wh

Ls: ala

Sh: drk gry-blk

Ls: off wh-tan, fn xln, poor int xln porosity, barren, NSFO, scat chalk, chert-off wh

Ls: tan-gry, fn xln, scat int xln porosity, mostly DNS, barren, NSFO, chalky

Sh: drk gry-brn, scat blk

Ls: off wh-gry, fn xln, scat pp vuggy porosity, scat oil st, NSFO, no odor, chalky, chert-off wh

Sh: drk gry-brn

Ls: off wh-tan, fn xln, ool, fair-good oom porosity, barren, NSFO, no odor, chalky

Sh: drk gry

Ls: off wh, fn xln, mostly DNS, no visible porosity, chalky

Sh: gry

Sh: drk gry-blk, carb

Sh: lt-drk gry, soft

Ls: tan-gry, fn-sub xln, mostly DNS, barren, NSFO, hvy chert-off wh

Sh: drk gry-brn

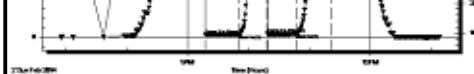
Ls: ala

Ls: tan-gry, fn xln, mostly DNS, barren, NSFO

B/KC 2971' (-1348)

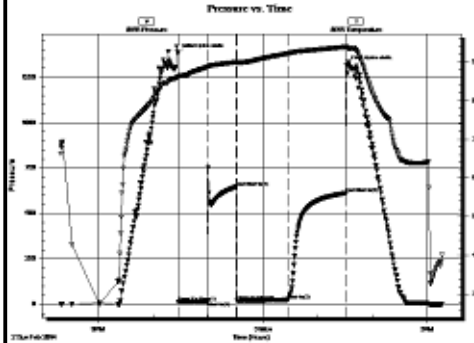
Sh: lt-drk gry-brn

Sh: ala



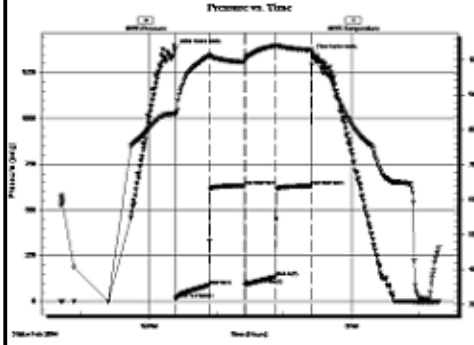
DST #3 2,793-2,807' (LKC F)
30"-30"-60"-60"

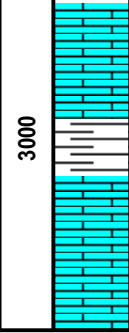
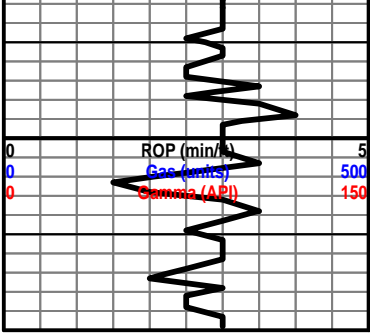
IF: weak blow, built to 1"
FF: weak surface blow, died in 21 minutes
Rec: 10' M
FP: 12-17, 19-24#
SIP: 647-612#
HP: 1,382-1,317#
BHT: 94



DST #4 2,806-2,821' (LKC G)
30"-30"-30"-30"

IF: BOB in 18 minutes, no blow back on SI
FF: weak surface blow, built to 7"
Rec: 268' MW
FP: 15-89, 91-135#
SIP: 633-632#
HP: 1,382-1,354#
BHT: 102





Ls: tan-lt gry, fn xln, scat pp vuggy porosity, NSFO

Sh: drk gry

Ls: tan-gry, fn-sub xln, mostly DNS, chalky

QUALITY OILWELL CEMENTING, INC.

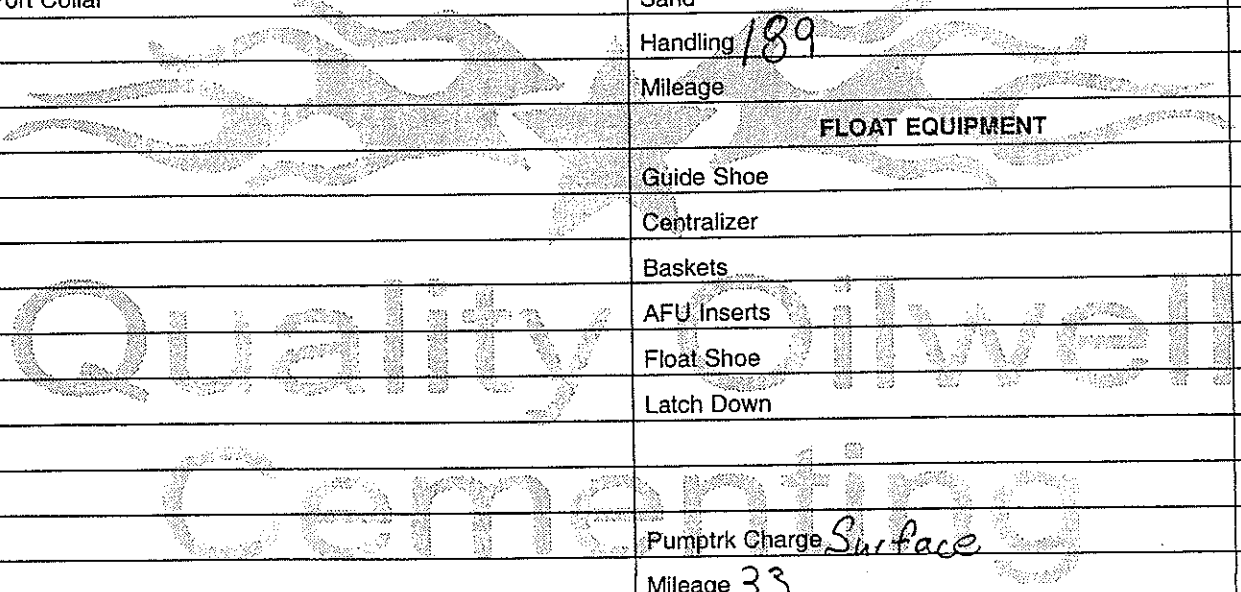
Federal Tax I.D.# 20-2886107

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

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

No. 7599

Date	1-29-14	Sec.	34	Twp.	14	Range	9	County	Ellsworth	State	Ks	On Location		Finish	7:00 PM
Lease								Location							
Haase								I-70 + Wilson Exit, 1S to Ave D, 7E							
Contractor								Owner							
Ual Energy #6								To D.E., 2S to Ave F, 1/4 E, 5/8 into							
Type Job								To Quality Oilwell Cementing, Inc.							
Surface								You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size				T.D.				Charge To							
12 1/4"				330' 334'				J.O. Farmer							
Csg.				Depth				Street							
8 5/8"				334'											
Tbg. Size				Depth				City				State			
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.				Shoe Joint				Cement Amount Ordered				180sx Common 3% CC			
Meas Line				Displace				2 1/4 BLS				2% Gel			
EQUIPMENT								Common 180							
Pumptrk				No.				Cementer				Pos. Mix			
16								B. Hud							
Bulktrk				No.				Driver				Gel.			
14								Chad Ryan				3			
Bulktrk				No.				Driver				Calcium			
p.w								Rick				6			
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
Cement did Circulate.															
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
								Handling 189							
								Mileage							
								FLOAT EQUIPMENT							
								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge							
								Surface							
								Mileage							
								33							
								Tax							
								Discount							
								Total Charge							
Signature								Randy D. Mark							



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 7699

Date	Sec.	Twp.	Range	County	State	On Location	Finish
2-4-14	34	14	9	Ellsworth	KS		8:30 PM

Location I 70 of Wilson Exit 15 7E

Lease Haase	Well No. 1	Owner 25 1/4 E
-------------	------------	----------------

Contractor Wal		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
----------------	--	---

Type Job Plug		Charge To John O Farmer
---------------	--	-------------------------

Hole Size	T.D.	
-----------	------	--

Csg.	Depth	Street
------	-------	--------

Tbg. Size	Depth	City State
-----------	-------	------------

Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
------	-------	--

Cement Left in Csg.	Shoe Joint	Cement Amount Ordered 175 sx 60/40 4% gel 1/4 # Flow
---------------------	------------	--

Meas Line	Displace	
-----------	----------	--

EQUIPMENT		Common 105
-----------	--	------------

Pumptrk 16	No. Cementer		Poz. Mix 70
------------	--------------	--	-------------

Bulktrk	No. Helper Billy		Gel. 6
---------	------------------	--	--------

Bulktrk PU	No. Driver Doug		Calcium
------------	-----------------	--	---------

JOB SERVICES & REMARKS		Hulls
------------------------	--	-------

Remarks:	Salt
----------	------

Rat Hole	Flowseal 50 #
----------	---------------

Mouse Hole	Kol-Seal
------------	----------

Centralizers	Mud CLR 48
--------------	------------

Baskets	CFL-117 or CD110 CAF 38
---------	-------------------------

D/V or Port Collar	Sand
--------------------	------

35 sx at 1200	Handling 181
---------------	--------------

35 sx at 900	Mileage
--------------	---------

35 sx at 390	FLOAT EQUIPMENT
--------------	-----------------

25 sx at 60	Guide Shoe
-------------	------------

25 sx Rat Hole	Centralizer
----------------	-------------

20 sx Mouse Hole	Baskets
------------------	---------

	AFU Inserts
--	-------------

	Float Shoe
--	------------

	Latch Down
--	------------

--	--

--	--

--	--

	Pumptrk Charge plug
--	---------------------

	Mileage 33
--	------------

	Tax
--	-----

	Discount
--	----------

	Total Charge
--	--------------

X Signature Ronly Smart	
-------------------------	--