



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1138169
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: _____



1138169

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

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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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

May 08, 2013

Marge Schulte
Farmer, John O., Inc.
370 W WICHITA AVE
PO BOX 352
RUSSELL, KS 67665-2635

Re: ACO1
API 15-147-20705-00-00
Wiechen 1
SW/4 Sec.07-04S-18W
Phillips County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Marge Schulte



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67664-2635

ATTN: John O Farmer IV

Wiecher #1

7-4s-18w Phillips,KS

Start Date: 2013.02.08 @ 23:01:04

End Date: 2013.02.09 @ 05:08:28

Job Ticket #: 51649 DST #: 1

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

Printed: 2013.02.19 @ 08:11:59



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer Inc
 PO Box 352
 Russell KS 67664-2635
 ATTN: John O Farmer IV

7-4s-18w Phillips,KS
Wiecher #1
 Job Ticket: 51649 **DST#: 1**
 Test Start: 2013.02.08 @ 23:01:04

GENERAL INFORMATION:

Formation: **LKC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:00:59
 Time Test Ended: 05:08:28
 Interval: **3142.00 ft (KB) To 3198.00 ft (KB) (TVD)**
 Total Depth: 3198.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 1940.00 ft (KB)
 1932.00 ft (CF)
 KB to GR/CF: 8.00 ft

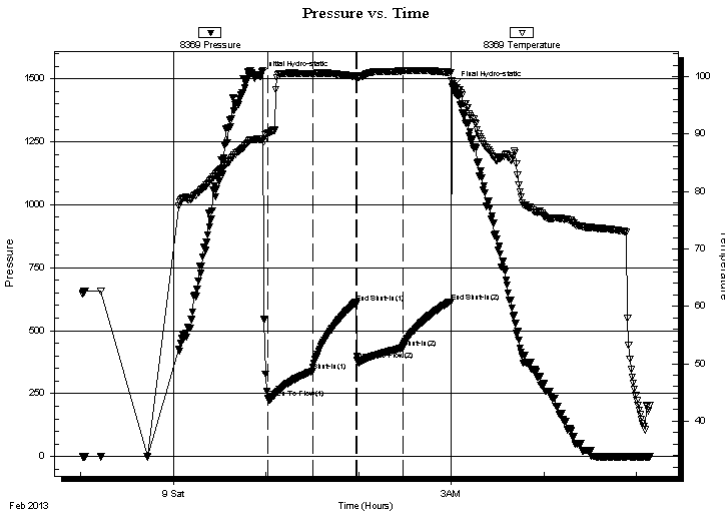
Serial #: 8369

Inside

Press @ Run Depth: 432.20 psig @ 3144.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.02.08 End Date: 2013.02.09 Last Calib.: 2013.02.09
 Start Time: 23:01:04 End Time: 05:08:28 Time On Btm: 2013.02.09 @ 00:55:44
 Time Off Btm: 2013.02.09 @ 03:01:29

TEST COMMENT: 30-IFP-strg bl thru-out
 30-ISIP-no bl
 30-FFP-strg bl in 3 min
 30-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1510.84	89.11	Initial Hydro-static
6	231.84	90.17	Open To Flow (1)
35	339.72	100.56	Shut-In(1)
63	608.46	100.06	End Shut-In(1)
64	384.11	99.98	Open To Flow (2)
93	432.20	101.02	Shut-In(2)
124	613.03	100.73	End Shut-In(2)
126	1473.52	98.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
810.00	Water	10.27
90.00	MW 15%MB5%W w/show of oil	1.26

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

7-4s-18w Phillips,KS

PO Box 352
Russell KS 67664-2635

Wiecher #1

Job Ticket: 51649

DST#: 1

ATTN: John O Farmer IV

Test Start: 2013.02.08 @ 23:01:04

Tool Information

Drill Pipe:	Length: 3015.00 ft	Diameter: 3.80 inches	Volume: 42.29 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 42.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3142.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	77.00 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			3122.00	
Shut In Tool	5.00			3127.00	
Hydraulic tool	5.00			3132.00	
Packer	5.00			3137.00	21.00 Bottom Of Top Packer
Packer	5.00			3142.00	
Stubb	1.00			3143.00	
Perforations	1.00			3144.00	
Recorder	0.00	8369	Inside	3144.00	
Recorder	0.00	8700	Outside	3144.00	
Blank Spacing	33.00			3177.00	
Perforations	18.00			3195.00	
Bullnose	3.00			3198.00	56.00 Bottom Packers & Anchor

Total Tool Length: 77.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

7-4s-18w Phillips,KS

PO Box 352
Russell KS 67664-2635

Wiecher #1

Job Ticket: 51649

DST#: 1

ATTN: John O Farmer IV

Test Start: 2013.02.08 @ 23:01:04

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:

55000 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.34 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
810.00	Water	10.269
90.00	MW 15%M85%W w/show of oil	1.262

Total Length: 900.00 ft Total Volume: 11.531 bbl

Num Fluid Samples: 0

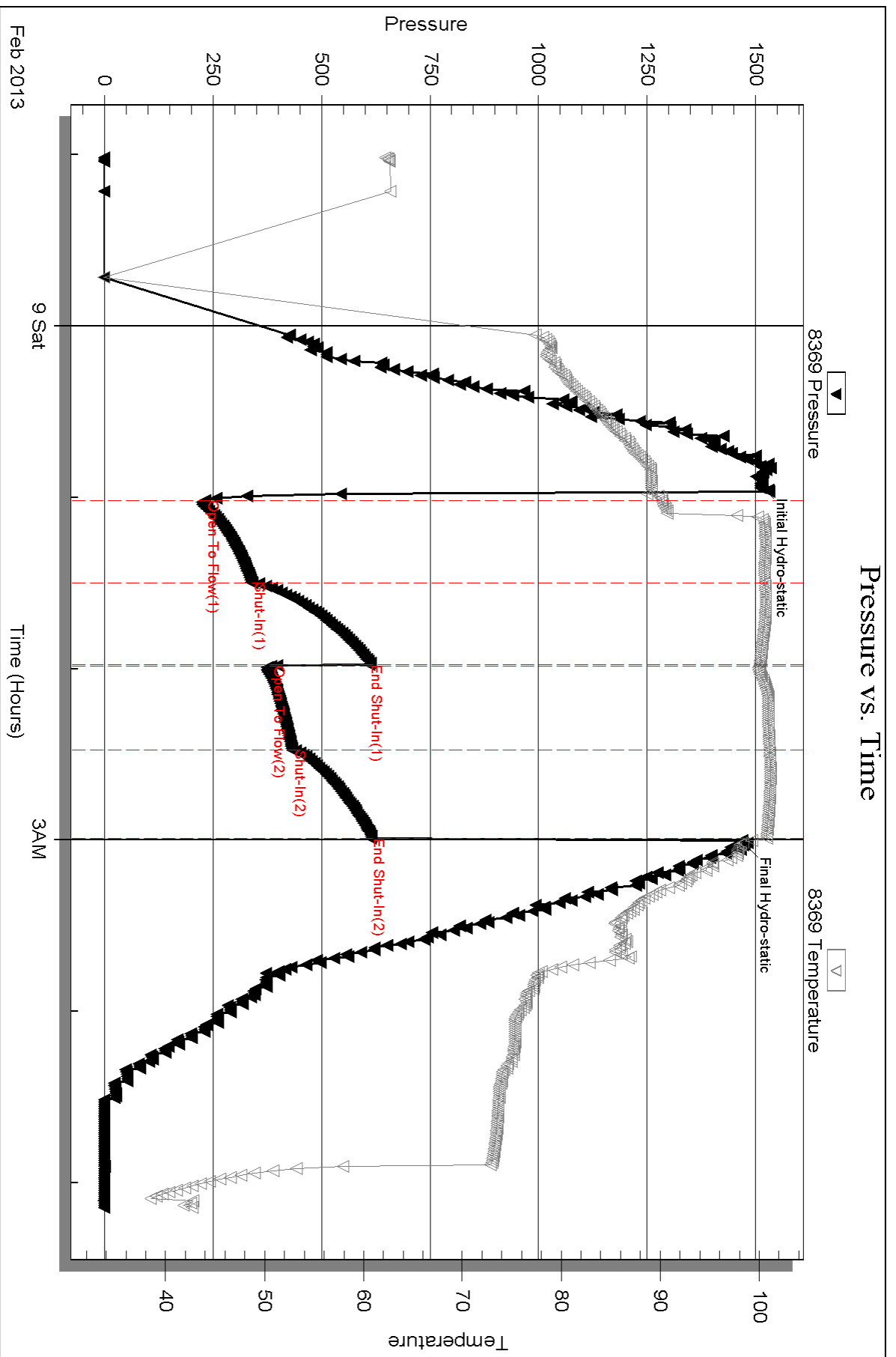
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .17@55F



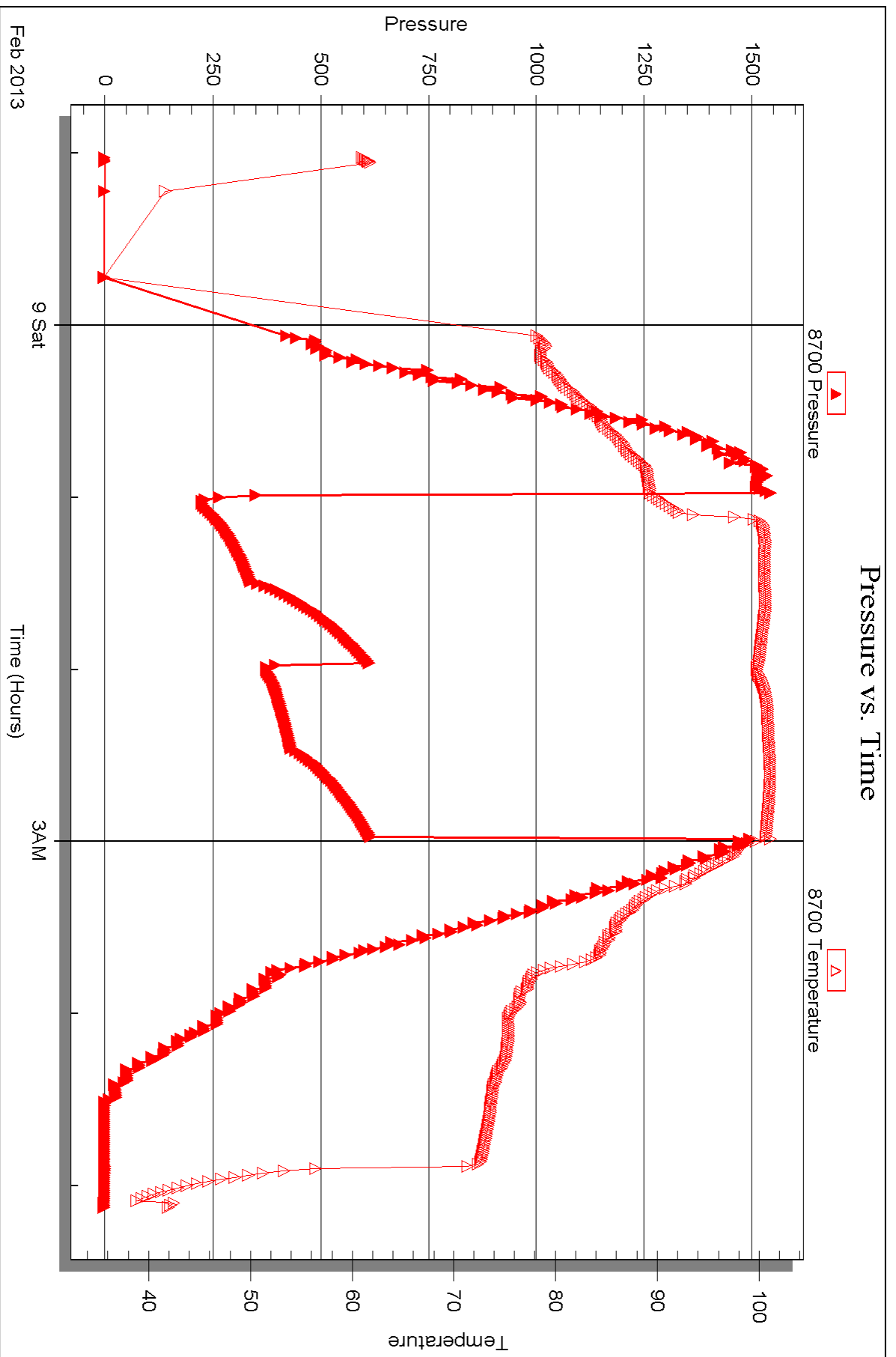
Serial #: 8700

Outside

John O Farmer Inc

Mecher #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 51649

Printed: 2013.02.19 @ 08:12:02



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67664-2635

ATTN: John O Farmer IV

Wiecher #1

7-4s-18w Phillips,KS

Start Date: 2013.02.09 @ 13:11:02

End Date: 2013.02.09 @ 18:11:56

Job Ticket #: 51650 DST #: 2

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

Printed: 2013.02.19 @ 08:11:23



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer Inc
 PO Box 352
 Russell KS 67664-2635
 ATTN: John O Farmer IV

7-4s-18w Phillips,KS
Wiecher #1
 Job Ticket: 51650 **DST#: 2**
 Test Start: 2013.02.09 @ 13:11:02

GENERAL INFORMATION:

Formation: **LKC E,F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:45:42
 Time Test Ended: 18:11:56
Interval: 3196.00 ft (KB) To 3240.00 ft (KB) (TVD)
 Total Depth: 3240.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 1940.00 ft (KB)
 1932.00 ft (CF)
 KB to GR/CF: 8.00 ft

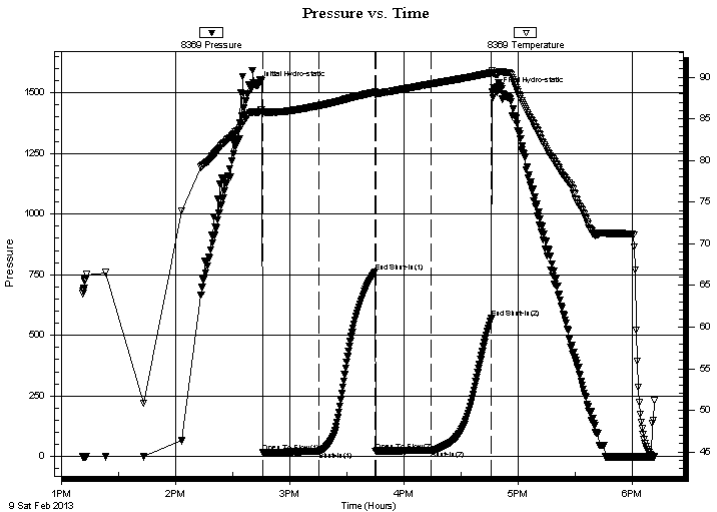
Serial #: 8369

Inside

Press @ RunDepth: 26.53 psig @ 3204.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.02.09 End Date: 2013.02.09 Last Calib.: 2013.02.09
 Start Time: 13:11:02 End Time: 18:11:56 Time On Btm: 2013.02.09 @ 14:42:42
 Time Off Btm: 2013.02.09 @ 16:48:12

TEST COMMENT: 30-IFP-w kbl thru-out 1/4" to 1/2" bl
 30-ISIP-no bl
 30-FFP-no bl
 30-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1531.84	85.80	Initial Hydro-static
3	16.40	85.75	Open To Flow (1)
33	21.69	86.59	Shut-In(1)
62	761.29	88.20	End Shut-In(1)
63	22.87	87.87	Open To Flow (2)
92	26.53	89.19	Shut-In(2)
124	571.13	90.53	End Shut-In(2)
126	1505.54	90.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 10%O90%M	0.05

* 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

7-4s-18w Phillips,KS

PO Box 352
Russell KS 67664-2635

Wiecher #1

Job Ticket: 51650

DST#: 2

ATTN: John O Farmer IV

Test Start: 2013.02.09 @ 13:11:02

Tool Information

Drill Pipe:	Length: 3075.00 ft	Diameter: 3.80 inches	Volume: 43.13 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 43.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3196.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	65.00 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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Change Over Sub	1.00			3176.00	
Shut In Tool	5.00			3181.00	
Hydraulic tool	5.00			3186.00	
Packer	5.00			3191.00	21.00 Bottom Of Top Packer
Packer	5.00			3196.00	
Stubb	1.00			3197.00	
Perforations	7.00			3204.00	
Recorder	0.00	8369	Inside	3204.00	
Recorder	0.00	8700	Outside	3204.00	
Blank Spacing	33.00			3237.00	
Bullnose	3.00			3240.00	44.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

7-4s-18w Phillips,KS

PO Box 352
Russell KS 67664-2635

Wiecher #1

Job Ticket: 51650

DST#: 2

ATTN: John O Farmer IV

Test Start: 2013.02.09 @ 13:11:02

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: 40.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.72 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OCM 10%O90%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

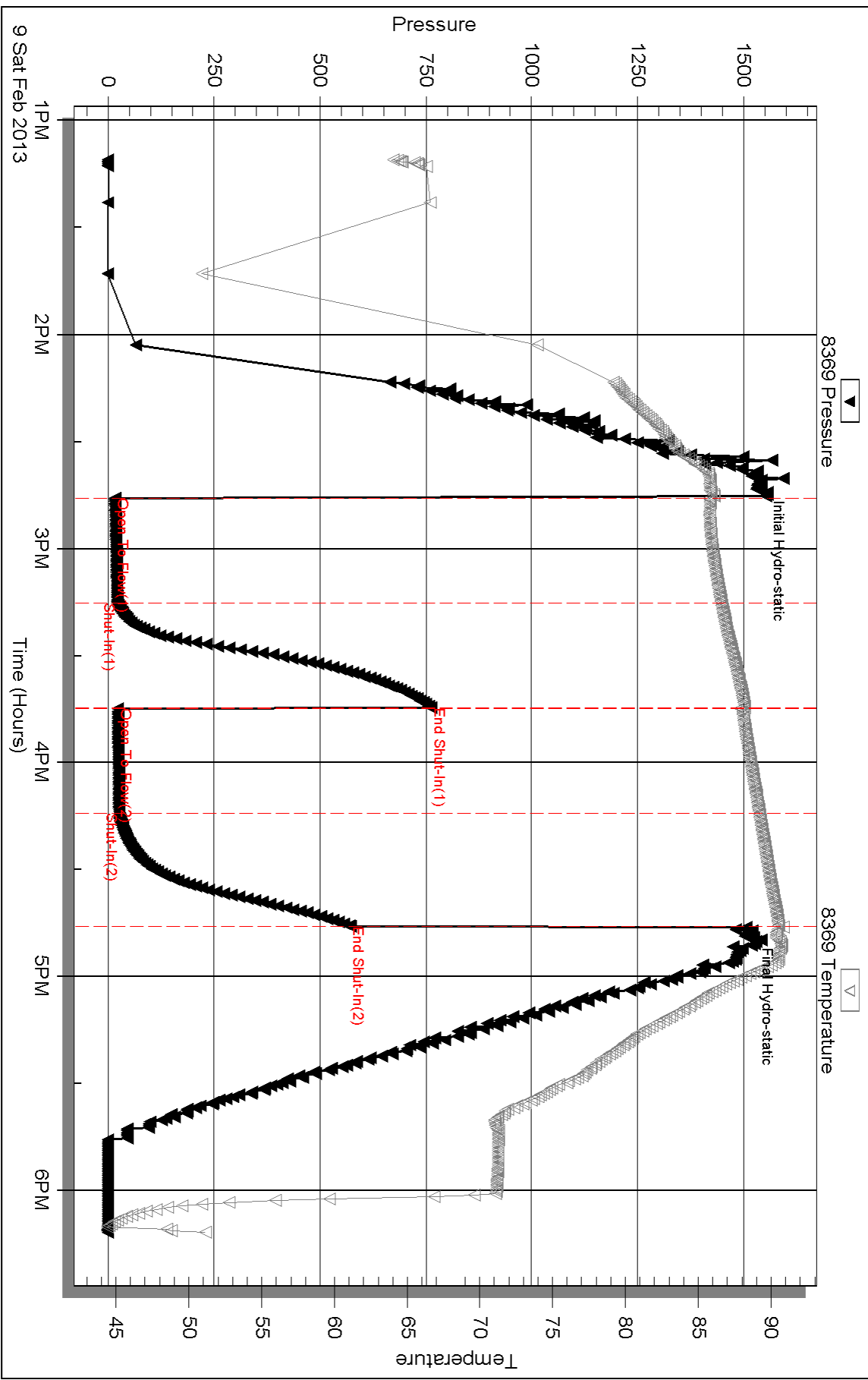
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

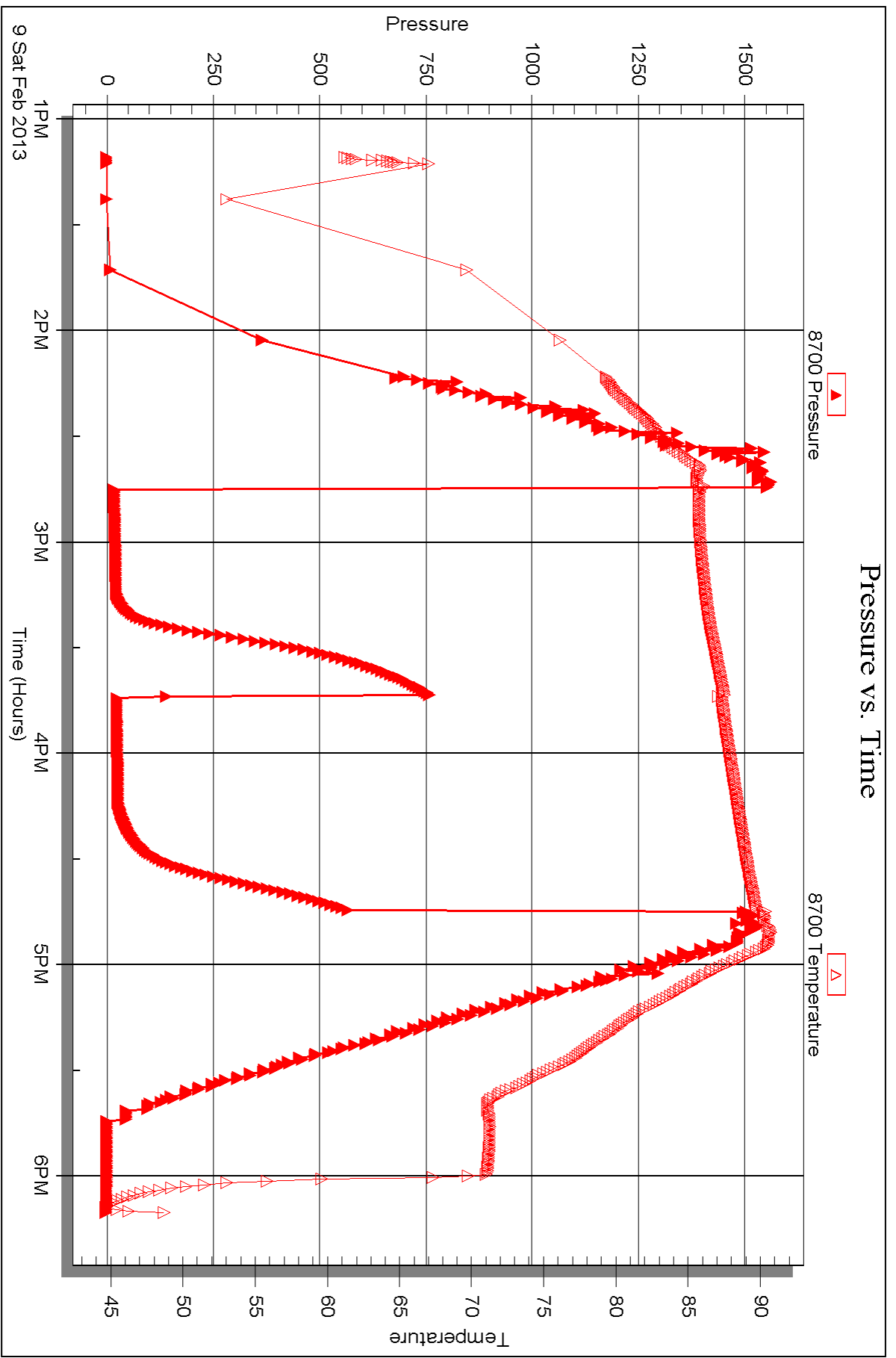


Serial #: 8700

Outside John O Farmer Inc

Mecher #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67664-2635

ATTN: John O Farmer IV

Wiecher #1

7-4s-18w Phillips,KS

Start Date: 2013.02.10 @ 00:26:03

End Date: 2013.02.10 @ 06:16:57

Job Ticket #: 50351 DST #: 3

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

Printed: 2013.02.19 @ 08:10:49



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer Inc
 PO Box 352
 Russell KS 67664-2635
 ATTN: John O Farmer IV

7-4s-18w Phillips,KS
Wiecher #1
 Job Ticket: 50351 **DST#: 3**
 Test Start: 2013.02.10 @ 00:26:03

GENERAL INFORMATION:

Formation: **LKC F-G**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 02:03:43
 Tester: Ray Schwager
 Time Test Ended: 06:16:57
 Unit No: 42
 Interval: **3238.00 ft (KB) To 3270.00 ft (KB) (TVD)**
 Reference Elevations: 1940.00 ft (KB)
 Total Depth: 3270.00 ft (KB) (TVD) 1932.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

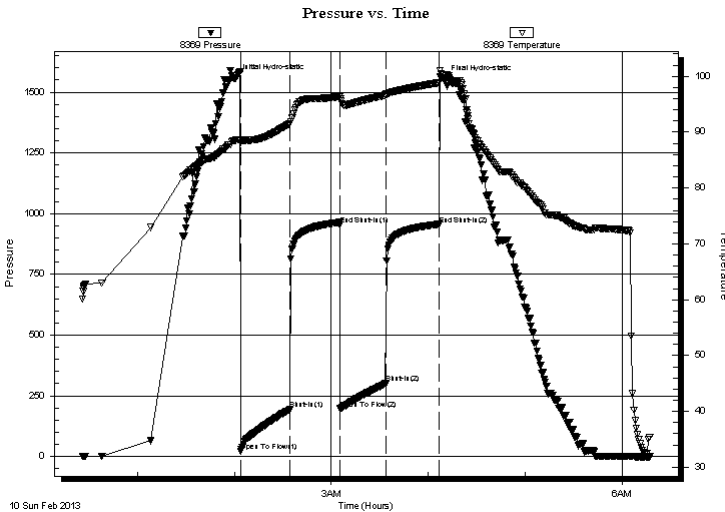
Serial #: 8369

Inside

Press @ Run Depth: 300.79 psig @ 3242.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.02.10 End Date: 2013.02.10 Last Calib.: 2013.02.10
 Start Time: 00:26:03 End Time: 06:16:57 Time On Btm: 2013.02.10 @ 02:00:58
 Time Off Btm: 2013.02.10 @ 04:09:58

TEST COMMENT: 30-IFP-w k to strg in 8 min
 30-ISIP-no bl
 30-FFP-w k to strg in 16 min
 30-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1555.25	88.53	Initial Hydro-static
3	20.79	88.07	Open To Flow (1)
34	193.31	91.54	Shut-In(1)
65	954.67	96.37	End Shut-In(1)
65	196.05	95.95	Open To Flow (2)
93	300.79	96.65	Shut-In(2)
126	955.90	98.85	End Shut-In(2)
129	1552.88	100.21	Final Hydro-static

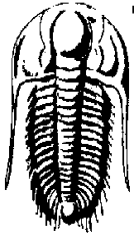
Recovery

Length (ft)	Description	Volume (bbl)
700.00	Water	8.73
1.00	Oil	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer Inc
PO Box 352
Russell KS 67664-2635
ATTN: John O Farmer IV

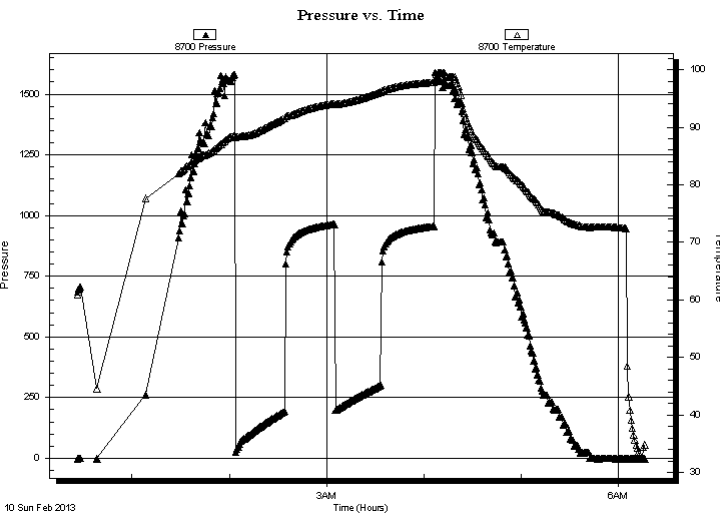
7-4s-18w Phillips, KS
Wiecher #1
Job Ticket: 50351 **DST#: 3**
Test Start: 2013.02.10 @ 00:26:03

GENERAL INFORMATION:

Formation: **LKC F-G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:03:43
Time Test Ended: 06:16:57
Interval: **3238.00 ft (KB) To 3270.00 ft (KB) (TVD)**
Total Depth: 3270.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Ray Schwager
Unit No: 42
Reference Elevations: 1940.00 ft (KB)
1932.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8700 **Outside**
Press @ Run Depth: psig @ 3242.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.02.10 End Date: 2013.02.10 Last Calib.: 2013.02.10
Start Time: 00:26:33 End Time: 06:16:12 Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IFP-w k to strg in 8 min
30-ISIP-no bl
30-FFP-w k to strg in 16 min
30-FSIP-no bl



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
700.00	Water	8.73
1.00	Oil	0.01

* 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

7-4s-18w Phillips,KS

PO Box 352
Russell KS 67664-2635

Wiecher #1

Job Ticket: 50351

DST#: 3

ATTN: John O Farmer IV

Test Start: 2013.02.10 @ 00:26:03

Tool Information

Drill Pipe:	Length: 3127.00 ft	Diameter: 3.80 inches	Volume: 43.86 bbl	Tool Weight:	2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 44.45 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	53000.00 lb
Depth to Top Packer:	3238.00 ft			Final	59000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	53.00 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			3218.00	
Shut In Tool	5.00			3223.00	
Hydraulic tool	5.00			3228.00	
Packer	5.00			3233.00	21.00 Bottom Of Top Packer
Packer	5.00			3238.00	
Stubb	1.00			3239.00	
Perforations	3.00			3242.00	
Recorder	0.00	8369	Inside	3242.00	
Recorder	0.00	8700	Outside	3242.00	
Perforations	25.00			3267.00	
Bullnose	3.00			3270.00	32.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

7-4s-18w Phillips,KS

PO Box 352
Russell KS 67664-2635

Wiecher #1

Job Ticket: 50351

DST#: 3

ATTN: John O Farmer IV

Test Start: 2013.02.10 @ 00:26:03

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:

60000 ppm

Viscosity: 40.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.70 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
700.00	Water	8.726
1.00	Oil	0.014

Total Length: 701.00 ft Total Volume: 8.740 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

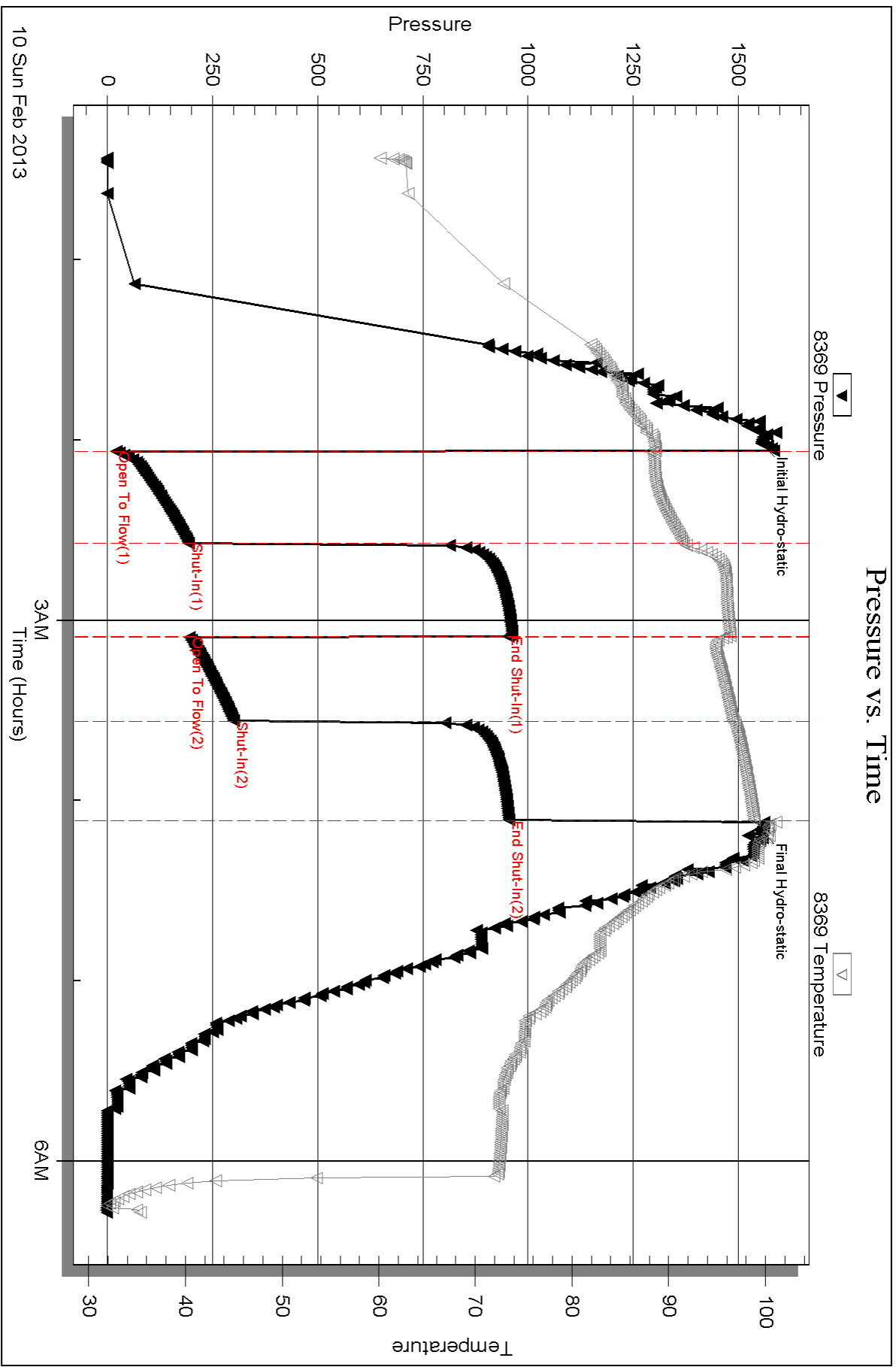
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .16@54F

Pressure vs. Time

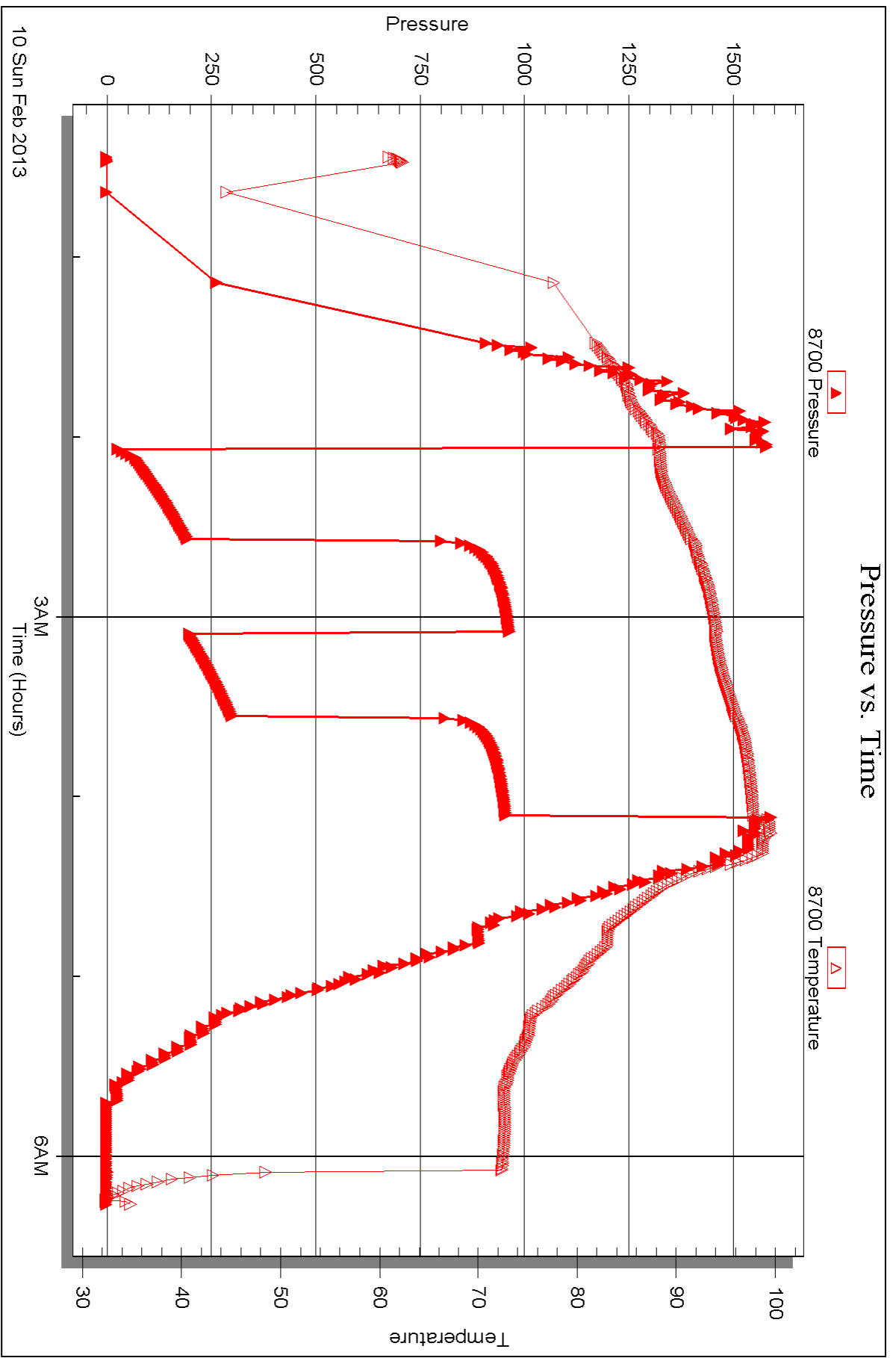


Serial #: 8700

Outside John O Farmer Inc

Mecher #1

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67664-2635

ATTN: John O Farmer IV

Wiecher #1

7-4s-18w Phillips,KS

Start Date: 2013.02.10 @ 19:30:41

End Date: 2013.02.10 @ 23:29:36

Job Ticket #: 50352 DST #: 4

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

Printed: 2013.02.19 @ 08:06:42



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer Inc
 PO Box 352
 Russell KS 67664-2635
 ATTN: John O Farmer IV

7-4s-18w Phillips,KS
Wiecher #1
 Job Ticket: 50352 **DST#: 4**
 Test Start: 2013.02.10 @ 19:30:41

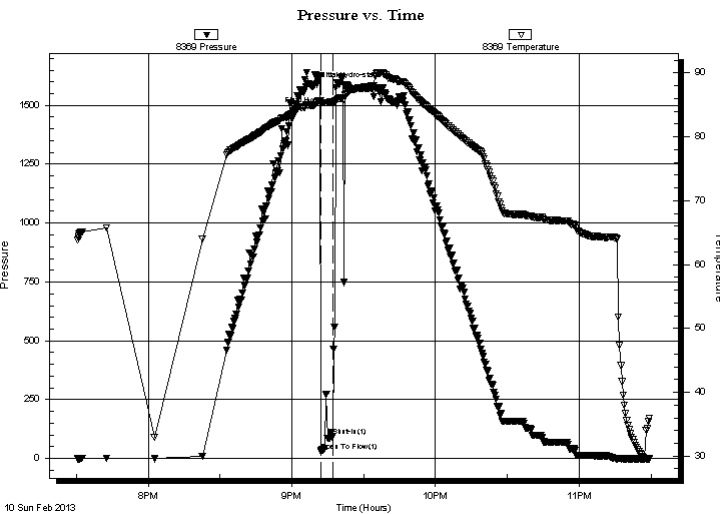
GENERAL INFORMATION:

Formation: **LKC I-K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:12:06
 Time Test Ended: 23:29:36
Interval: 3297.00 ft (KB) To 3377.00 ft (KB) (TVD)
 Total Depth: 3377.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 1940.00 ft (KB)
 1932.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8369 Inside

Press @ Run Depth: psig @ 3311.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.02.10 End Date: 2013.02.10 Last Calib.: 2013.02.10
 Start Time: 19:30:41 End Time: 23:29:36 Time On Btm: 2013.02.10 @ 21:08:51
 Time Off Btm: 2013.02.10 @ 21:25:06

TEST COMMENT: 10-IFP-w k bl , then lost packer seat , reset packers w ould not hold , pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1579.70	84.94	Initial Hydro-static
4	30.43	85.26	Open To Flow (1)
9	93.45	85.37	Shut-In(1)
17	1572.06	87.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
250.00	Mud	2.41
90.00	SOCM 6%O94%M	1.26

* 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

7-4s-18w Phillips,KS

PO Box 352
Russell KS 67664-2635

Wiecher #1

Job Ticket: 50352

DST#: 4

ATTN: John O Farmer IV

Test Start: 2013.02.10 @ 19:30:41

Tool Information

Drill Pipe:	Length: 3162.00 ft	Diameter: 3.80 inches	Volume: 44.35 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 44.94 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3297.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	101.00 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			3277.00	
Shut In Tool	5.00			3282.00	
Hydraulic tool	5.00			3287.00	
Packer	5.00			3292.00	21.00 Bottom Of Top Packer
Packer	5.00			3297.00	
Stubb	1.00			3298.00	
Perforations	13.00			3311.00	
Recorder	0.00	8369	Inside	3311.00	
Recorder	0.00	8700	Outside	3311.00	
Blank Spacing	63.00			3374.00	
Bullnose	3.00			3377.00	80.00 Bottom Packers & Anchor

Total Tool Length: 101.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

7-4s-18w Phillips,KS

PO Box 352
Russell KS 67664-2635

Wiecher #1

Job Ticket: 50352

DST#: 4

ATTN: John O Farmer IV

Test Start: 2013.02.10 @ 19:30:41

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 7.94 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
250.00	Mud	2.414
90.00	SOCM 6%O94%M	1.262

Total Length: 340.00 ft Total Volume: 3.676 bbl

Num Fluid Samples: 0

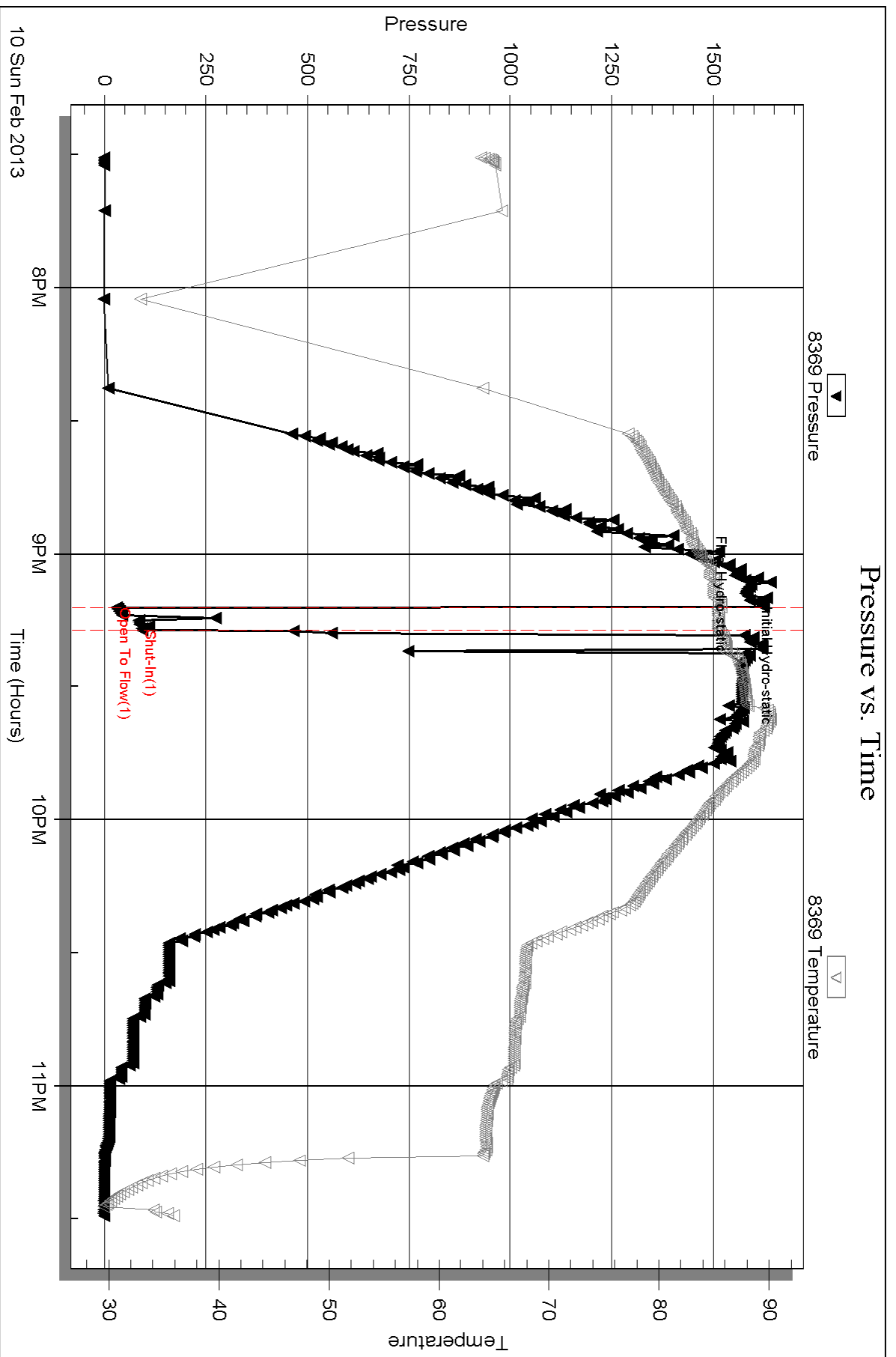
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



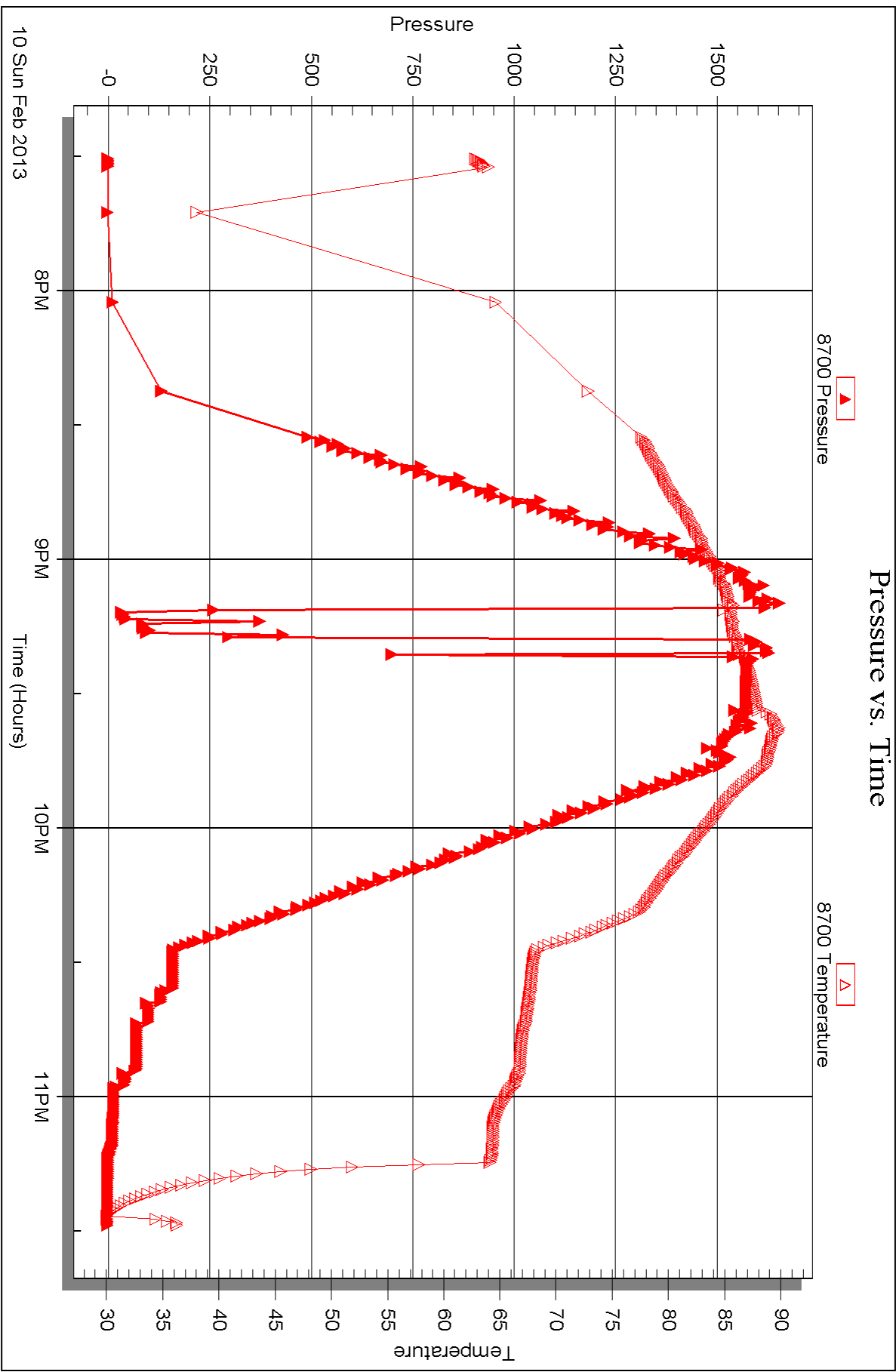
Serial #: 8700

Outside

John O Farmer Inc

Mecher #1

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67664-2635

ATTN: John O Farmer IV

Wiecher #1

7-4s-18w Phillips,KS

Start Date: 2013.02.11 @ 11:55:37

End Date: 2013.02.11 @ 18:59:01

Job Ticket #: 50353 DST #: 5

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

Printed: 2013.02.19 @ 08:05:56



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer Inc
PO Box 352
Russell KS 67664-2635
ATTN: John O Farmer IV

7-4s-18w Phillips,KS
Wiecher #1
Job Ticket: 50353 **DST#: 5**
Test Start: 2013.02.11 @ 11:55:37

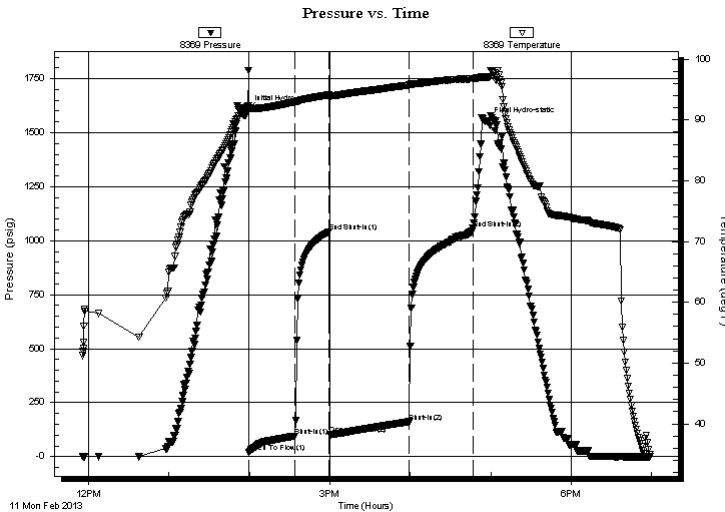
GENERAL INFORMATION:

Formation: **LKC I-J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:59:32
Time Test Ended: 18:59:01
Interval: **3278.00 ft (KB) To 3342.00 ft (KB) (TVD)**
Total Depth: 3421.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Straddle (Reset)
Tester: Ray Schwager
Unit No: 42
Reference Elevations: 1940.00 ft (KB)
1932.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8369 Inside
Press @ Run Depth: 161.99 psig @ 3289.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.02.11 End Date: 2013.02.11 Last Calib.: 2013.02.11
Start Time: 11:55:37 End Time: 18:59:01 Time On Btm: 2013.02.11 @ 13:58:47
Time Off Btm: 2013.02.11 @ 16:57:01

TEST COMMENT: 30-IFP-w k to a gd bl 1/2" to 8" bl
30-ISIP-1/4" bl bk
60-FFP-w k to strg in 54 min
60-FSIP-surface bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1607.46	92.22	Initial Hydro-static
1	21.53	91.86	Open To Flow (1)
36	95.48	92.98	Shut-In(1)
61	1040.42	94.11	End Shut-In(1)
61	102.10	93.80	Open To Flow (2)
121	161.99	95.72	Shut-In(2)
168	1057.03	96.78	End Shut-In(2)
179	1552.07	96.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	HO&GCM 10%G 35%O 55%M	0.66
250.00	CO	3.51
124.00	GIP	1.74

* 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

7-4s-18w Phillips,KS

PO Box 352
Russell KS 67664-2635

Wiecher #1

Job Ticket: 50353

DST#: 5

ATTN: John O Farmer IV

Test Start: 2013.02.11 @ 11:55:37

Tool Information

Drill Pipe:	Length: 3153.00 ft	Diameter: 3.80 inches	Volume: 44.23 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 44.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3278.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	3342.00 ft			
Interval between Packers:	64.00 ft			
Tool Length:	168.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			3258.00	
Shut In Tool	5.00			3263.00	
Hydraulic tool	5.00			3268.00	
Packer	5.00			3273.00	21.00 Bottom Of Top Packer
Packer	5.00			3278.00	
Stubb	1.00			3279.00	
Perforations	10.00			3289.00	
Recorder	0.00	8369	Inside	3289.00	
Recorder	0.00	8700	Outside	3289.00	
Blank Spacing	33.00			3322.00	
Perforations	16.00			3338.00	
Blank Off Sub	1.00			3339.00	
Blank Spacing	3.00			3342.00	64.00 Tool Interval
Packer	5.00			3347.00	
Stubb	1.00			3348.00	
Perforations	11.00			3359.00	
Recorder	0.00	8374	Below	3359.00	
Blank Spacing	63.00			3422.00	
Bullnose	3.00			3425.00	83.00 Bottom Packers & Anchor

Total Tool Length: 168.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

7-4s-18w Phillips,KS

PO Box 352
Russell KS 67664-2635

Wiecher #1

Job Ticket: 50353

DST#: 5

ATTN: John O Farmer IV

Test Start: 2013.02.11 @ 11:55:37

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

19 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	HO&GCM 10%G 35%O 55%M	0.660
250.00	CO	3.507
124.00	GIP	1.739

Total Length: 499.00 ft Total Volume: 5.906 bbl

Num Fluid Samples: 0

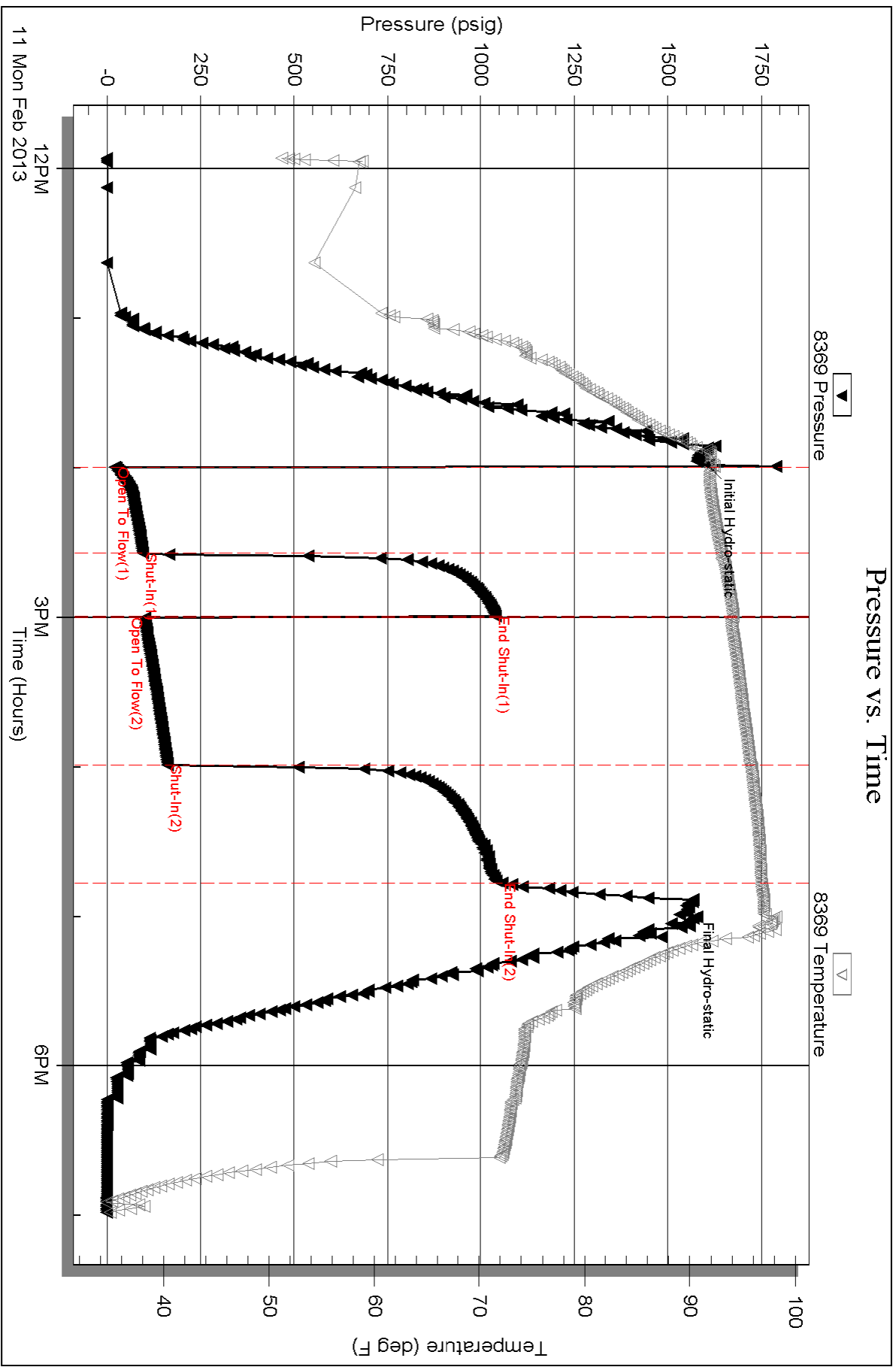
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

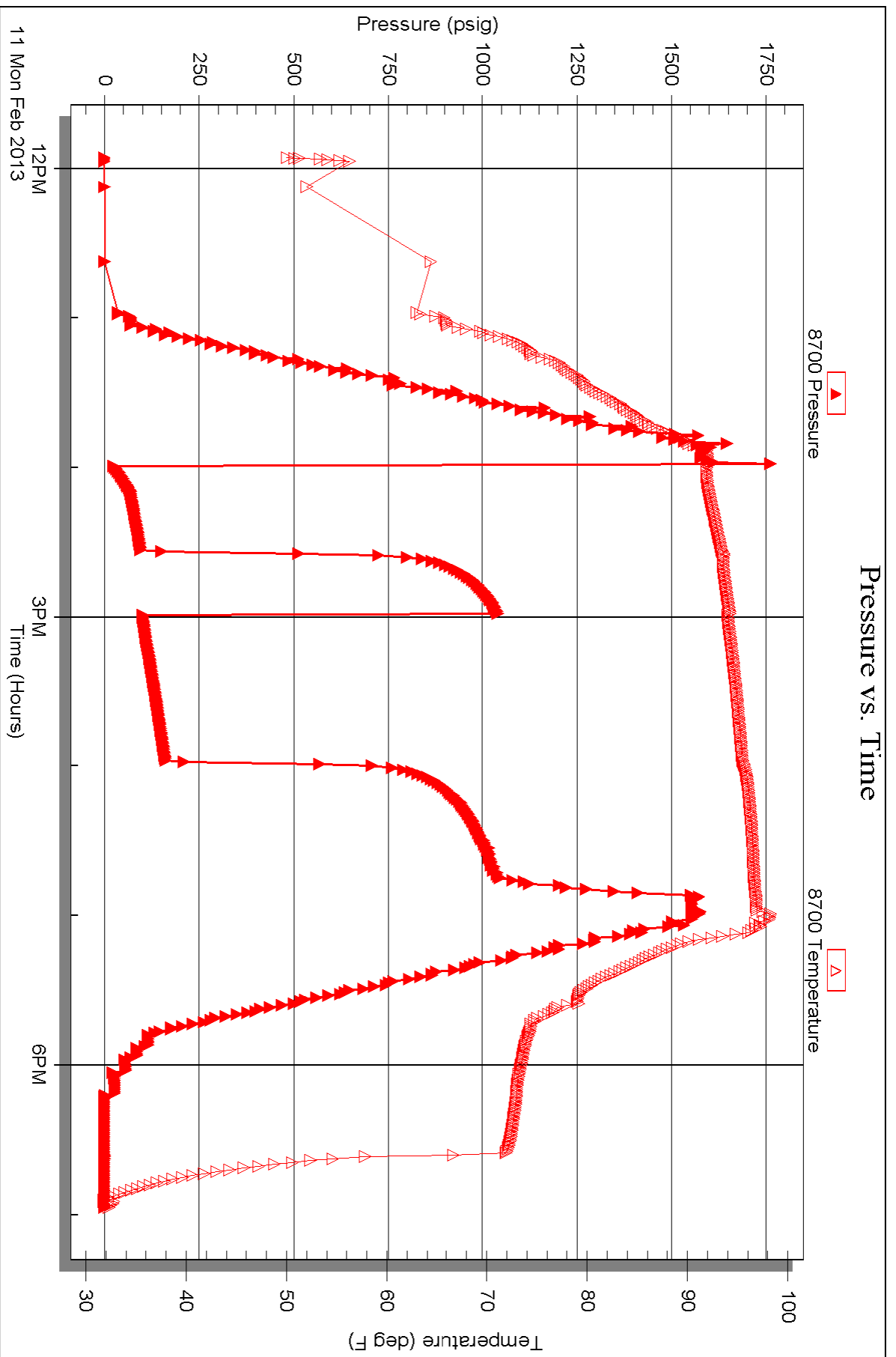


Serial #: 8700

Outside John O Farmer Inc

Mecher #1

DST Test Number: 5

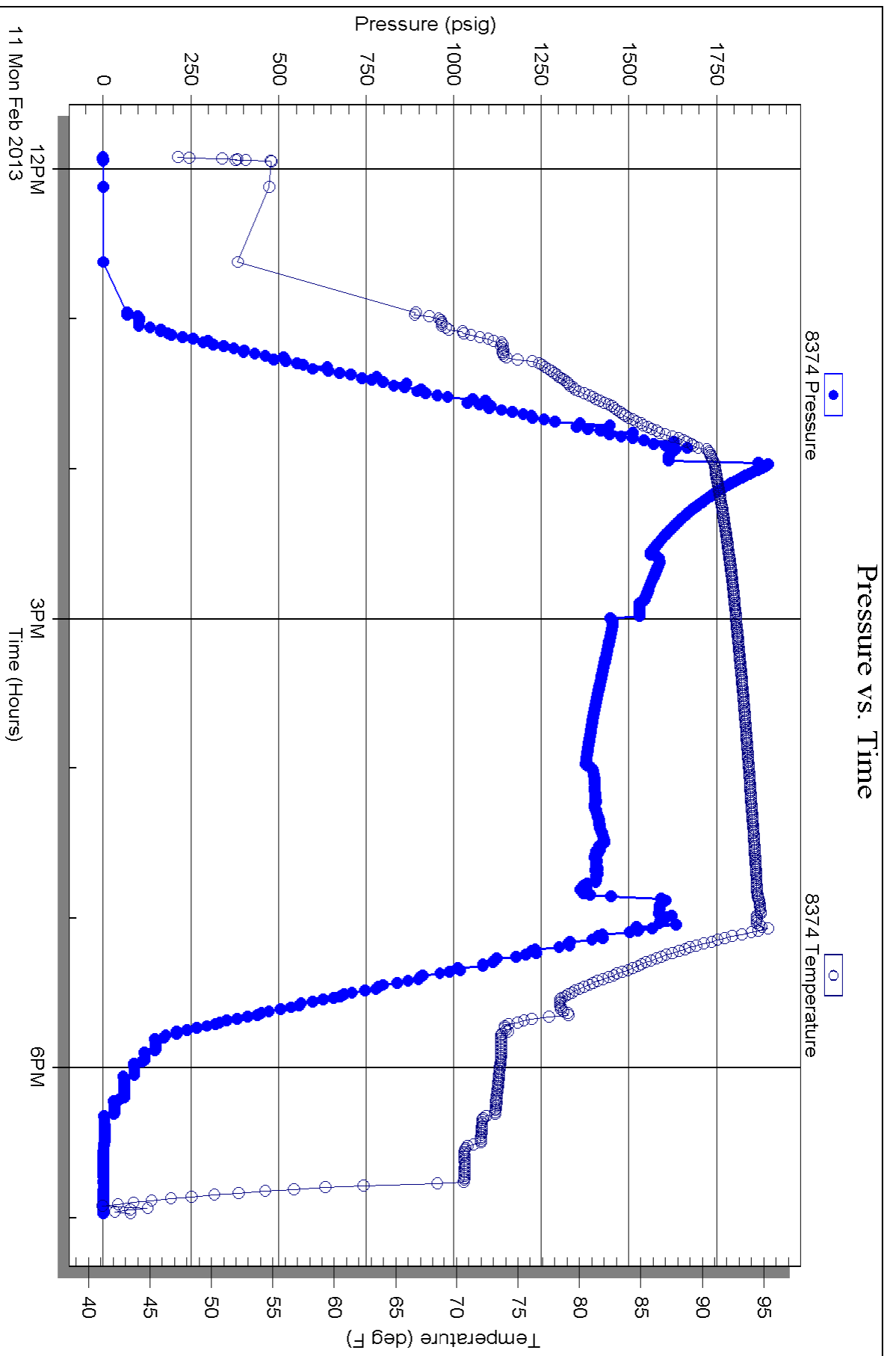


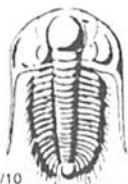
Serial #: 8374

Below (Straddled) Farmer Inc

Wischer #1

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51649

Well Name & No. Wiecher #1 Test No. 1 Date 2-8-13
 Company John D. Farmer Inc Elevation 1940 KB 1932 GL
 Address PO Box 352 Russell, Ko 67665-2635
 Co. Rep / Geo. Austin Klaus Rig WW rig 12
 Location: Sec. 7 Twp. 4^s Rge. 18^w Co. Phillips State Ks

Interval Tested 3142-3198 Zone Tested ~~3142-3198~~ LKC
 Anchor Length 56 Drill Pipe Run 3015 Mud Wt. 8.9
 Top Packer Depth 3137 Drill Collars Run 120 Vis 67
 Bottom Packer Depth 3142 Wt. Pipe Run - WL 6.4
 Total Depth 3198 Chlorides 400 ppm System LCM 2#

Blow Description IFP - STRONG Blow Thru-out
ISTIP - NO Blow
FFP - STRONG Blow in 3min
FSTIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>Feet of MW w/shaw foil</u>		<u>85</u>	<u>15</u>	
<u>810</u>	<u>Feet of WATER</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 900 BHT 100 Gravity - API RW .17 @ 55° F Chlorides 55000 ppm

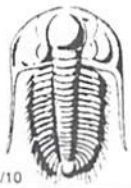
(A) Initial Hydrostatic <u>1510</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2100</u>
(B) First Initial Flow <u>231</u>	<input type="checkbox"/> Jars	T-Started <u>2300</u>
(C) First Final Flow <u>339</u>	<input type="checkbox"/> Safety Joint	T-Open <u>6100</u>
(D) Initial Shut-In <u>608</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>8300</u>
(E) Second Initial Flow <u>384</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0508</u>
(F) Second Final Flow <u>432</u>	<input checked="" type="checkbox"/> Mileage <u>130 RT</u> 201.50	Comments <u>MOTEL</u>
(G) Final Shut-In <u>613</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1473</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

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

Sub Total 1351.50

Approved By _____ Our Representative RAY Schwager *Thank you*

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. 51650

Well Name & No. Wiecher #1 Test No. 2 Date 2-9-13
 Company John O Farmer Inc Elevation 1940 KB 1932 GL
 Address Po Box 352 Russell, Ks 67665-2635
 Co. Rep / Geo. Austin Klaus Rig WW Rig 12
 Location: Sec. 7 Twp. 4^s Rge. 18^w Co. Phillips State Ks

Interval Tested 3196-3240 Zone Tested LKC E.F
 Anchor Length 44 Drill Pipe Run 3075 Mud Wt. 8.9
 Top Packer Depth 3191 Drill Collars Run 120 Vis 40
 Bottom Packer Depth 3196 Wt. Pipe Run — WL 8.8
 Total Depth 3240 Chlorides 4000 ppm System LCM 2#

Blow Description IFP - Weak Blow thru-out 1/4" to 1/2" Blow
ISTP - NO Blow
FFP - NO Blow
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>OCM</u>	<u>10</u>		<u>90</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 90 Gravity — API RW — @ — F Chlorides — ppm

- (A) Initial Hydrostatic 1531
- (B) First Initial Flow 16
- (C) First Final Flow 21
- (D) Initial Shut-In 761
- (E) Second Initial Flow 22
- (F) Second Final Flow 26
- (G) Final Shut-In 571
- (H) Final Hydrostatic 1505

- Test 1150
- Jars
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage 201.50
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility

T-On Location 1245
 T-Started 1310
 T-Open 1445
 T-Pulled 1645
 T-Out 1811

Comments MOTEL
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1351.50
 MP/DST Disc't

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

Approved By _____

Our Representative Ray Schwager *Thank you*

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. 50351

4/10

Well Name & No. Wiecher #1 Test No. ~~2933~~ 3 Date 2-9-13
 Company John O. Farmer Inc Elevation 1940 KB 1932 GL
 Address PO Box 352 Russell, Ko 67665-2635
 Co. Rep / Geo. Austin Klaus Rig WW rig 12
 Location: Sec. 7 Twp. 4^s Rge. 18^w Co. Phillips State Ko

Interval Tested 3238-3270 Zone Tested LKC F-6
 Anchor Length 32 Drill Pipe Run 3127 Mud Wt. 8.9
 Top Packer Depth 3233 Drill Collars Run 120 Vis 40
 Bottom Packer Depth 3238 Wt. Pipe Run — WL 8.8
 Total Depth 3270 Chlorides 4000 ppm System LCM 2#
 Blow Description IFP - WEAK TO STRONG IN 8 MIN
TSIP - NO BLOW
FFP - WEAK TO STRONG IN 16 MIN
FSIP -

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>oil</u>				
<u>700</u>	<u>WATER</u>				

Rec Total 701 BHT 99 Gravity — API RW .16 @ 54° F Chlorides 60000 ppm
 Test 1150 T-On Location 1140
 Jars T-Started 0025
 Safety Joint T-Open 0200
 Circ Sub T-Pulled 0400
 Hourly Standby T-Out 0616
 Mileage 201.50 Comments _____
 Sampler _____
 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1351.50 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Approved By _____ Our Representative Ray Schwager *Thank you*

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. 50352

Well Name & No. Wiecher #1 Test No. 4 Date 2-10-13
 Company John O Farmer Inc Elevation 1940 KB 1932 GL
 Address PO Box 352 Russell, Ks 67665-2635
 Co. Rep / Geo. Austin Klaus Rig WWrig 12
 Location: Sec. 7 Twp. 4^s Rge. 18^w Co. Phillips State K

Interval Tested 3297-3377 Zone Tested LKC T-K
 Anchor Length 80 Drill Pipe Run 3162 Mud Wt. 9.1
 Top Packer Depth 3292 Drill Collars Run 120 Vis 48
 Bottom Packer Depth 3297 Wt. Pipe Run - WL 8
 Total Depth 3377 Chlorides 3000 ppm System LCM 2#
 Blow Description IFP - Weak Blow, Then lost packer seat, reset packer
IFIP - would not hold, pulled too!
FFP -
FSIP -

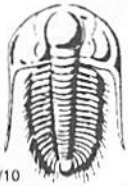
Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>50CM</u>		<u>6</u>		<u>99</u>
<u>250</u>	<u>MUD</u>				

Rec Total 340 BHT _____ Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1579</u>	<input checked="" type="checkbox"/> Test 950	T-On Location <u>1830</u>
(B) First Initial Flow <u>30</u>	<input type="checkbox"/> Jars _____	T-Started <u>1930</u>
(C) First Final Flow <u>93</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>2110</u>
(D) Initial Shut-In <u>-</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>2130</u>
(E) Second Initial Flow <u>-</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>2329</u>
(F) Second Final Flow <u>-</u>	<input checked="" type="checkbox"/> Mileage <u>201.50</u>	Comments <u>Motel</u>
(G) Final Shut-In <u>-</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1572</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>10</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>-</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>-</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1151.50</u>
Final Shut-In <u>-</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1151.50</u>	

Approved By _____ Our Representative Ray Schwager *thank you*

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. 50353

Well Name & No. Wiecker #1 Test No. 5 Date 2-11-13
 Company John O Farmer Inc Elevation 1940 KB 1932 GL
 Address PO Box 352 Russell, Ks 67665-2635
 Co. Rep / Geo. Austin Klaus Rig WWrig12
 Location: Sec. 7 Twp. 4^s Rge. 18^w Co. Phillips State Ks

Interval Tested 3278-3342 Zone Tested 1Kc I-J
 Anchor Length 64 Drill Pipe Run 3153 Mud Wt. 9
 Top Packer Depth 3278-3273 Drill Collars Run 120 Vis 56
 Bottom Packer Depth 3342 Wt. Pipe Run - WL 8
 Total Depth 3421 Chlorides 3000 ppm System LCM 2#
 Blow Description IFP - WEAK TO A GOOD Blow 1/2" TO 8" Blow
ISIP - 1/4" Blow Back
FFP - WEAK TO STRONG IN 54 min
FSIP - SURFACE Blow BK

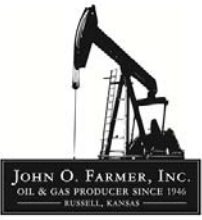
Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>GIP</u>				
<u>250</u>	<u>CO</u>				
<u>125</u>	<u>H0+6CM</u>	<u>10</u>	<u>35</u>	<u>55</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 375 BHT 97 Gravity 19 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1607</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1045</u>
(B) First Initial Flow <u>21</u>	<input type="checkbox"/> Jars	T-Started <u>1155</u>
(C) First Final Flow <u>95</u>	<input type="checkbox"/> Safety Joint	T-Open <u>1355</u>
(D) Initial Shut-In <u>1040</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1655</u>
(E) Second Initial Flow <u>102</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1859</u>
(F) Second Final Flow <u>161</u>	<input checked="" type="checkbox"/> Mileage <u>201.50</u>	Comments <u>note</u>
(G) Final Shut-In <u>1057</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1552</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1951.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1951.50</u>	

Approved By _____ Our Representative Ray Schwager *Thank you*

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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: Wiechen #1
Location: Phillips County
License Number: API #15
Spud Date: 2/5/2013
Surface Coordinates: Section 7 - Township 4 South - Range 18 West
1,900' FSL & 1,920' FWL
Bottom Hole Coordinates: Vertical well with minimal deviation, same as above
Ground Elevation (ft): 1,932' K.B. Elevation (ft): 1,940'
Logged Interval (ft): 2,850' To: RTD Total Depth (ft): 3,430'
Formation: Lansing
Type of Drilling Fluid: Chemical (Andy's)

Region: Kansas
Drilling Completed: 2/11/2013

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 67665-0352

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**
 Earthy
 Fenest
 Fracture
 Inter
 Moldic
 Organic
 Pinpoint

Vuggy

- SORTING**
 Well
 Moderate
 Poor

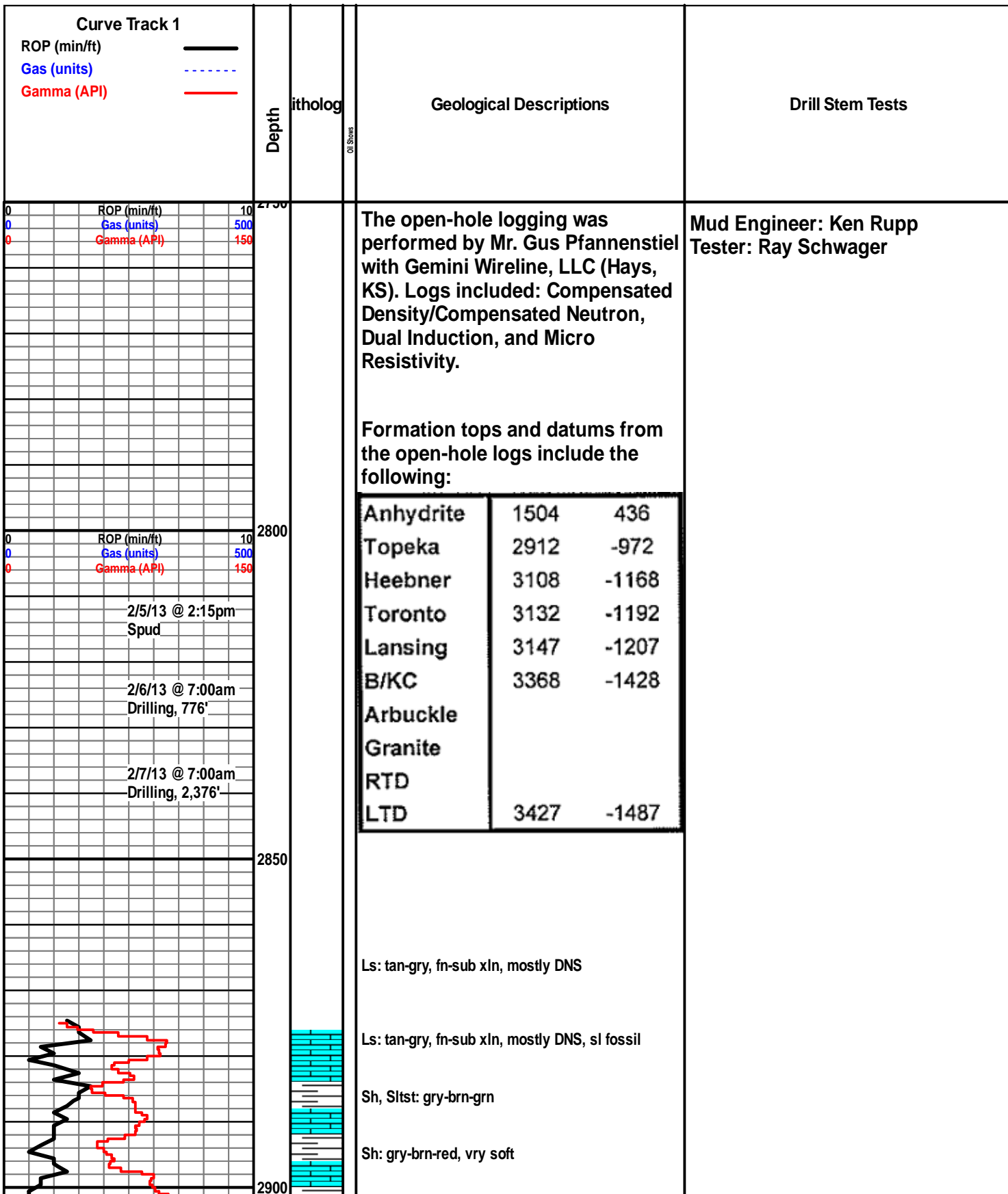
- ROUNDING**
 Rounded
 Subrnd
 Subang
 Angular

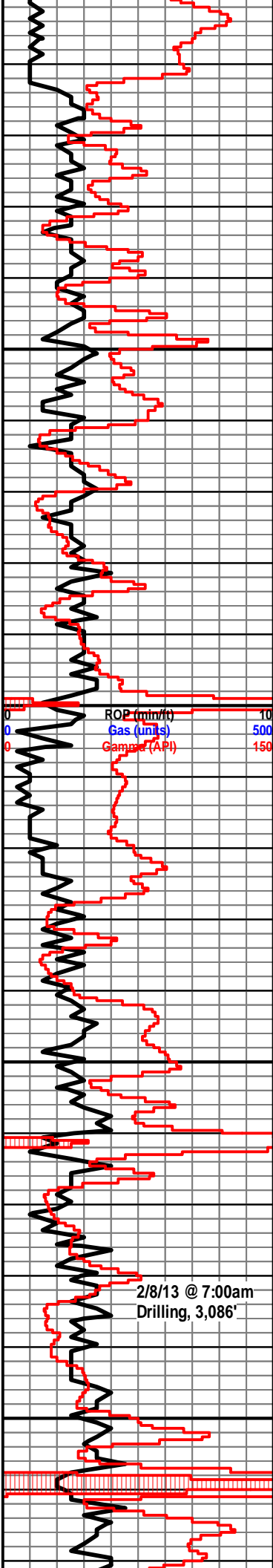
- Spotted
 Ques
 Dead

- EVENT**
 Rft
 Sidewall

- INTERVAL**
 Core
 Dst

- OIL SHOW**
 Even





Sh, Sltst: gry-grn-brn

Topeka 2914' (-974)

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

Vis: 53
Wt: 8.7

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

Ls: tan-lt gry-brn, fn-sub xln, mostly DNS, NSFO, no odor

2950

Sh, Sltst: gry-brn-grn-red

Sh: drk gry-blk

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

Ls: off wh-tan, fn xln, scat poor int xln porosity, mostly barren, sl chalky, NSFO, no odor

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

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

3000

ROP (min/ft) 10
Gas (units) 500
Gamma (API) 150

Vis: 55
Wt: 8.7

Ls: ala

Sh: drk gry-blk

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

Sh: gry-brn-grn, soft

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

3050

Vis: 54
Wt: 8.7

Ls: ala

Sh: drk gry-brn

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

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

Ls: ala

Ls: off wh-tan, fn-sub xln, vry DNS, sl chert-off wh

3100

2/8/13 @ 7:00am
Drilling, 3,086'

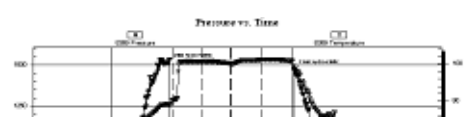
Heebner 3107' (-1167)

Sh: blk, carb, fissile

Sh, Sltst: gry-brn, soft

DST #1 3,142-3,198' LKC A-C
30"-30"-30"-30"

IF: BOB immediately, no blow back on shut in
FF: BOB in 3 minutes, no blow back on shut in
Rec: 900' Water (Chl. 55k)
FP: 232-340, 384-432#
SIP: 608-613#
HP: 1,511-1,474#
BHT: 98



Toronto 3132' (-1192)

Ls: tan-lt gry, fn xln, poor int xln porosity, sl oil st in porosity, sl chalky, sl fossil, chert-off wh-yellow, NSFO, sl odor

Lansing 3147' (-1207)

Ls: off wh-tan, fn xln, poor int xln porosity, lt-fair oil st in porosity, VSSFO, lt-fair odor, sl chert-off wh

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

Sh: drk gry-blk

Ls: off wh-tan, fn-vry fn xln, poor-fair int xln porosity, lt oil st in porosity, NSFO, no odor

Sh: drk gry-brn-grn

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

Sh: drk gry

Ls: off wh-tan, fn xln, scat int xln porosity, mostly barren, NSFO, no odor

Ls: off wh-tan, fn xln, poor int xln porosity, lt oil st in porosity, VSSFO, sl-fair odor

Ls: off wh-tan, fn xln, fair int xln/fossil porosity, lt-fair oil st in porosity, VSSFO, fair odor, fossil

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

Sh: drk gry-brn-grn, soft

Sh: drk gry-brn

Ls: off wh, fn xln, scat pp vuggy porosity, lt oil st, VSSFO, sl odor, chert-off wh

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

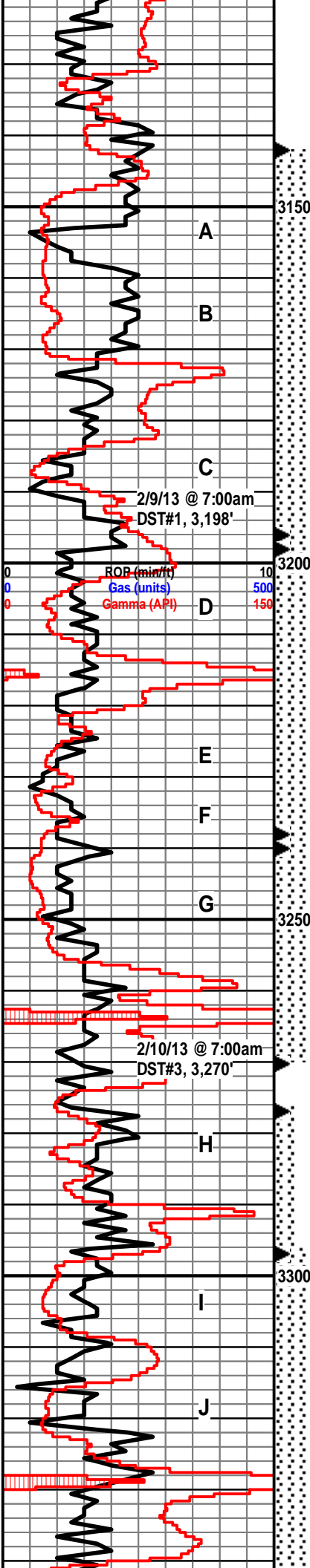
Sh: drk gry

Ls: off wh-tan, fn xln, poor-fair int fossil porosity, lt-fair oil st in porosity, SSFO, sl-fair odor

Sh: drk gry-brn

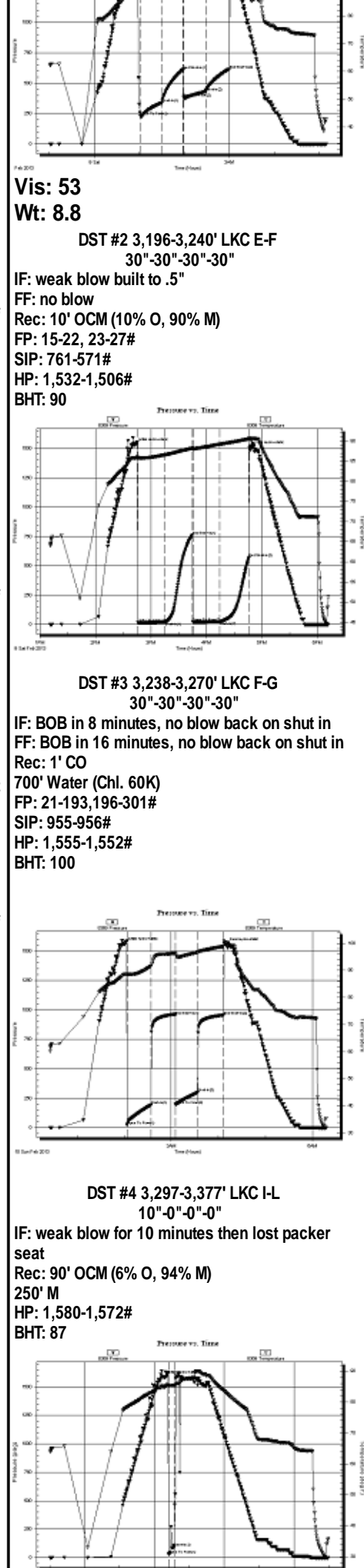
Ls: off wh, fn xln, ool w/ poor-fair oom porosity, fair oil st in porosity, VSSFO, sl-fair odor, fossil

Sh: drk gry, soft



2/9/13 @ 7:00am
DST#1, 3,198'

2/10/13 @ 7:00am
DST#3, 3,270'



Vis: 53
Wt: 8.8

DST #2 3,196-3,240' LKC E-F
30"-30"-30"-30"

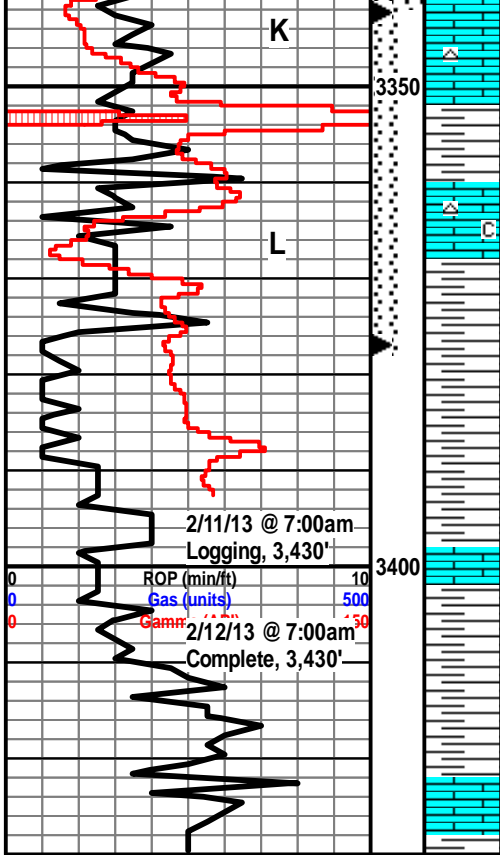
IF: weak blow built to .5"
FF: no blow
Rec: 10' OCM (10% O, 90% M)
FP: 15-22, 23-27#
SIP: 761-571#
HP: 1,532-1,506#
BHT: 90

DST #3 3,238-3,270' LKC F-G
30"-30"-30"-30"

IF: BOB in 8 minutes, no blow back on shut in
FF: BOB in 16 minutes, no blow back on shut in
Rec: 1' CO
700' Water (Chl. 60K)
FP: 21-193,196-301#
SIP: 955-956#
HP: 1,555-1,552#
BHT: 100

DST #4 3,297-3,377' LKC I-L
10"-0"-0"-0"

IF: weak blow for 10 minutes then lost packer seat
Rec: 90' OCM (6% O, 94% M)
250' M
HP: 1,580-1,572#
BHT: 87



Ls: tan-lt gry, fn-sub xln, mostly DNS, NSFO, no odor, sl chert-off wh

Sh: drk gry, soft

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

Sh: drk gry-brn, soft

BKC 3373' (-1433)

Sh: drk gry-brn-grn

Sh: drk gry-brn, very soft

Sh, Sltst: qtz, vry fn grn, sh-drk gry

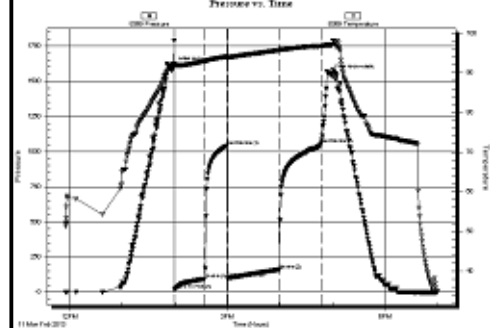
Sh, Sltst: ala

Sh: drk gry-brn-grn, soft

Ls: tan-gry-brn, fn-sub xln, mostly DNS, sl chert

Vis: 42
Wt: 8.9

DST #5 3,278-3,342' LKC I & J
30"-30"-60"-60"
IF: weak blow built to 8", 1/4" blow back on shut in
FF: BOB in 54 minutes, surface blow back on shut in
Rec: 124' Gas in Pipe
250' Clean Oil (19 API)
125' HO&GCM (10% G, 35% O, 55% M)
FP: 22-95, 102-162#
SIP: 1,040-1,057#
HP: 1,670-1,552#
BHT: 97



Vis: 48
Wt: 9.1

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. 6430

Date	4-5-13	Sec.	7	Twp.	4	Range	18	County	Phillips	State	KS	On Location	4.35pm	Finish	6:15pm
								Location	Speed	2N 1/4 E N10					

Lease	Wiechen	Well No.	1	Owner		
Contractor	W-W 17				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	Surface					
Hole Size	1 1/4	T.D.	270	Charge To		
Csg.	8 5/8	Depth	219	Street	JO Farmer Inc	
Tbg. Size		Depth		City	State	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.		
Cement Left in Csg.	20ft	Shoe Joint	20ft	Cement Amount Ordered	150 3% GE Model	
Meas Line	23#	Displace	12.5 BBL			

EQUIPMENT

Pumptrk	9	No.	Cementer	mit	Common	150
			Helper		Poz. Mix	
Bulktrk	14	No.	Driver	Cody	Gel.	3
			Driver		Calcium	5
Bulktrk	pu	No.	Driver	Louise		
			Driver	m		

JOB SERVICES & REMARKS

Remarks:		Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	158
		Mileage	

Cement did circulate

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Surface
Mileage	53

	Tax
	Discount
	Total Charge

X Signature 

JOB LOG

SWIFT Services, Inc.

DATE 2-12-13 PAGE NO. 7

CUSTOMER John O. Farmer WELL NO. #1 LEASE Wiechen JOB TYPE Longstring TICKET NO. 23857

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0100							on loc w/FE
								RTD 3430'
								5 1/2" x 14" x 3428' x 23'
								Cent. 1, 3, 5, 6, 8, 45
								Base 9, 46
								P.C. 46 @ 1507'
	0200							start FE
	0420							Break Circulation
	0515	2.5	7					Plug RH 30 sks EA-2cm+
	0520	5	0			200		Start 500gal Mudflush
	0522	5	12/0			200		Start 20 bbl KCL flush
	0526	5	20/0			200		Start 145sks EA-2 Cement
	0533		35					End Cement
								wash P&L
								Drop L.D. Plug
	0535	6	0			200		Start Displacement
	0545	5	60			250		Catch Cement
	0550		83			700 / 1300		Land Plug
								Release Pressure
								Float Hold

Thank you

Nick, David E. & Isaac

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. 6445

Date	3-1-13	Sec.	7	Twp.	4	Range	18	County	Phillips	State	KS	On Location		Finish	11:00 AM
------	--------	------	---	------	---	-------	----	--------	----------	-------	----	-------------	--	--------	----------

Location Spool 2N 2E N into

Lease Wiechen Well No. 4 Owner

Contractor Green To Quality Oilwell Cementing, Inc.
Type Job Port Collar 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

Csg. 5 1/2 Depth Street

Tbg. Size 2 1/2 Depth City 20 stop Farmer

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

Cement Left in Csg. Shoe Joint Cement Amount Ordered 300 @ m d c 1/4 flow

Meas Line Displace 4.5 B/B

EQUIPMENT

Pumptrk 5 No. Cementer into Common 215

Bulktrk 13 No. Helper into Poz. Mix

Bulktrk 14 No. Driver Brett Gel. 7

Bulktrk 14 No. Driver heath Calcium

JOB SERVICES & REMARKS

Remarks: Hulls

Rat Hole Salt

Mouse Hole Flowseal 75#

Centralizers Kol-Seal

Baskets Mud CLR 48

D/V or Port Collar 1500 CFL-117 or CD110 CAF 38

Sand

Handling 300

Mileage

FLOAT EQUIPMENT

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge port collar

Mileage 53

Tax

Discount

Total Charge

X Signature Juan Estrella

Mixed 215 SKs
Displaced 4.5 BBL
Ran 5 2 1/2" JTS
Washed clean
tested tool
to 1000 psi