

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1252997
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: _____

1252997

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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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. 1381

Date	Sec.	Twp.	Range	County	State	On Location	Finish
-28-15	16	9	22	Graham	Ks		7:45pm

Location *Palco Red line, 11w, 2 1/2 N, W#2*

Lease <i>McCall R</i>	Well No. <i>1</i>	Owner
Contractor <i>WW 6</i>		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 <i>Surface</i>		
Hole Size <i>12 1/4</i>	T.D. <i>218</i>	Charge To <i>John O Farmer</i>
Csg. <i>8 5/8</i>	Depth <i>218</i>	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 <i>20</i>	Cement Amount Ordered <i>150 sx cam, 3% cc, 2% gel</i>
Meas Line	Displace <i>12 1/2 bbl</i>	

EQUIPMENT

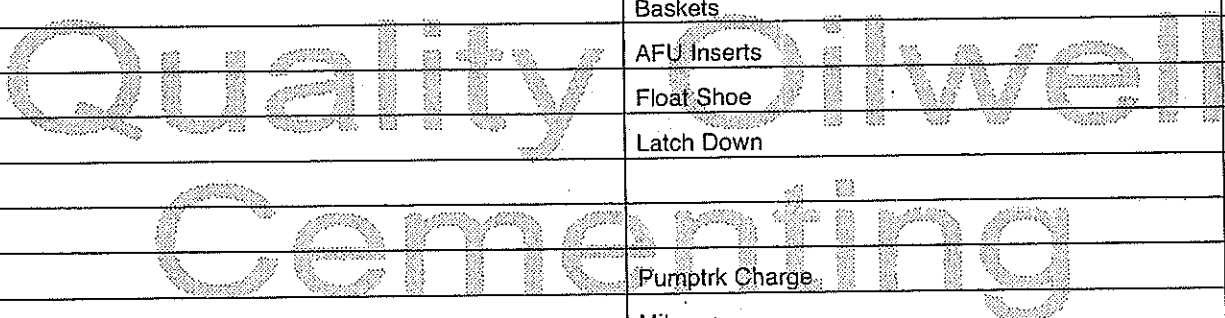
Pumptrk <i>17</i>	No.	Cementer	Common
		Helper <i>Louie W.</i>	Poz. Mix
Bulktrk <i>14</i>	No.	Driver	Gel.
		Driver <i>Ryan</i>	Calcium
Bulktrk <i>Ph</i>	No.	Driver	Hulls
		Driver <i>Travis</i>	Salt

JOB SERVICES & REMARKS

Remarks <i>Cement did circulate</i>	
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
	Mileage

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down



	Pumptrk Charge	
	Mileage	
		Tax
		Discount
		Total Charge

X Signature *McCall Base*

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. 1384

Date	2-4-15	Sec.	16	Twp.	9	Range	22	County	Graham	State	KS	On Location		Finish	7:45 PM
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Location *Wakeeny N to Redline; SE, 2 1/2 N*

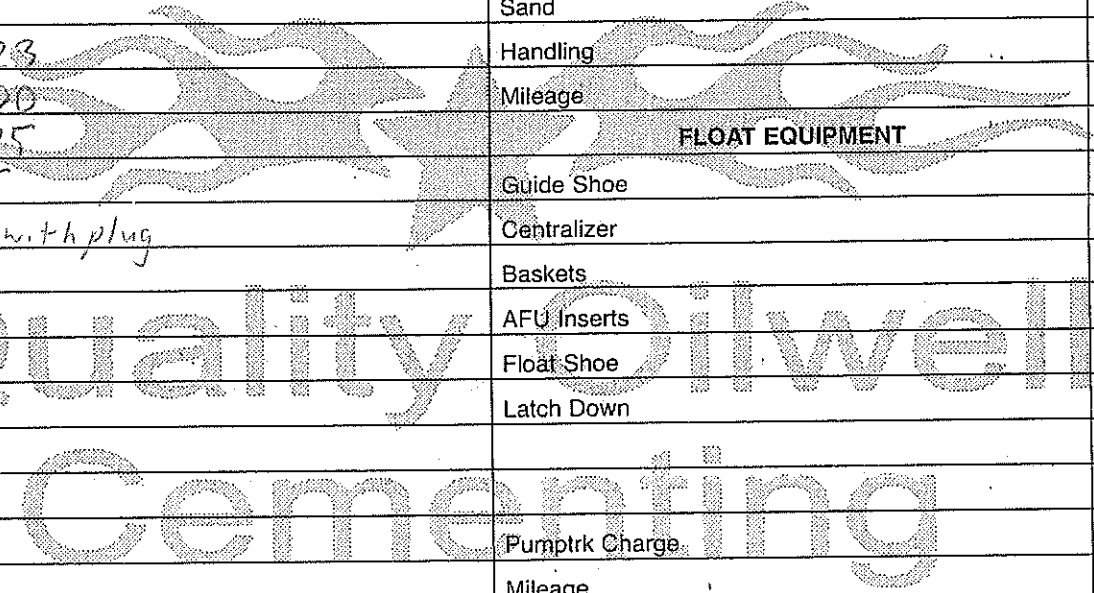
Lease	<i>McCall B</i>	Well No.		Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	<i>W W G</i>			Charge To	<i>John O Farmer</i>
Type Job	<i>Plug</i>				
Hole Size	<i>7 7/8</i>	T.D.	<i>4010</i>		
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 <i>290 sx 60/40, 4% gel 1/4 # Flo</i>	

Meas Line		Displace	
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EQUIPMENT			Common
Pumptrk	<i>20</i>	No. Cementer Helper	<i>NICK</i>
Bulktrk	<i>3</i>	No. Driver	<i>Ryan</i>
Bulktrk	<i>PU</i>	No. Driver	<i>TRAVIS</i>

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
<i>50 sx at 3973</i>		Sand
<i>50 sx at 1900</i>		Handling
<i>100 sx at 1075</i>		Mileage
<i>50 sx at 275</i>		FLOAT EQUIPMENT
<i>10 sx at 40 with plug</i>		Guide Shoe
		Centralizer
		Baskets
<i>30 sx Rat</i>		AFU Inserts
		Float Shoe
		Latch Down



	Pumptrk Charge	
	Mileage	
		Tax
		Discount
		Total Charge

X Signature *McCall B G S P*



DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

McCall B #1

16-9s-22w Graham,KS

Start Date: 2015.02.01 @ 11:55:00

End Date: 2015.02.01 @ 17:15:00

Job Ticket #: 53842 DST #: 1

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

Printed: 2015.02.05 @ 09:21:37

John O Farmer
16-9s-22w Graham,KS
McCall B #1
DST # 1
KC "C-D"
2015.02.01



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer

16-9s-22w Graham,KS

PO Box 352
Russell KS 67665

McCall B #1

Job Ticket: 53842

DST#: 1

ATTN: Austin Klaus

Test Start: 2015.02.01 @ 11:55:00

GENERAL INFORMATION:

Formation: **KC "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 17:15:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3616.00 ft (KB) To 3654.00 ft (KB) (TVD)

Reference Elevations: 2333.00 ft (KB)

Total Depth: 3654.00 ft (KB) (TVD)

2328.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8736 Inside

Press@RunDepth: psig @ 3617.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.02.01

End Date:

2015.02.01

Last Calib.:

2015.02.01

Start Time: 11:55:05

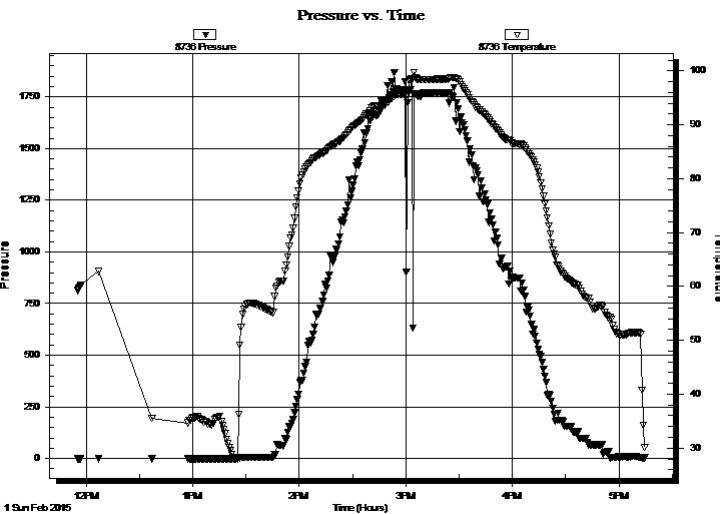
End Time:

17:14:59

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Packer Failure



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
380.00	Mud	4.22

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

16-9s-22w Graham,KS

PO Box 352
Russell KS 67665

McCall B #1

Job Ticket: 53842

DST#: 1

ATTN: Austin Klaus

Test Start: 2015.02.01 @ 11:55:00

Tool Information

Drill Pipe:	Length: 3492.00 ft	Diameter: 3.80 inches	Volume: 48.98 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	33000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	32000.00 lb
Depth to Top Packer:	3616.00 ft			Final	33000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	38.00 ft				
Tool Length:	58.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3601.00	
Hydraulic tool	5.00			3606.00	
Packer	5.00			3611.00	20.00 Bottom Of Top Packer
Packer	5.00			3616.00	
Stubb	1.00			3617.00	
Recorder	0.00	8736	Inside	3617.00	
Recorder	0.00	8957	Outside	3617.00	
Perforations	1.00			3618.00	
Change Over Sub	1.00			3619.00	
Drill Pipe	31.00			3650.00	
Change Over Sub	1.00			3651.00	
Bullnose	3.00			3654.00	38.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

16-9s-22w Graham,KS

PO Box 352
Russell KS 67665

McCall B #1

Job Ticket: 53842

DST#: 1

ATTN: Austin Klaus

Test Start: 2015.02.01 @ 11:55:00

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
380.00	Mud	4.219

Total Length: 380.00 ft Total Volume: 4.219 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Packer Failure

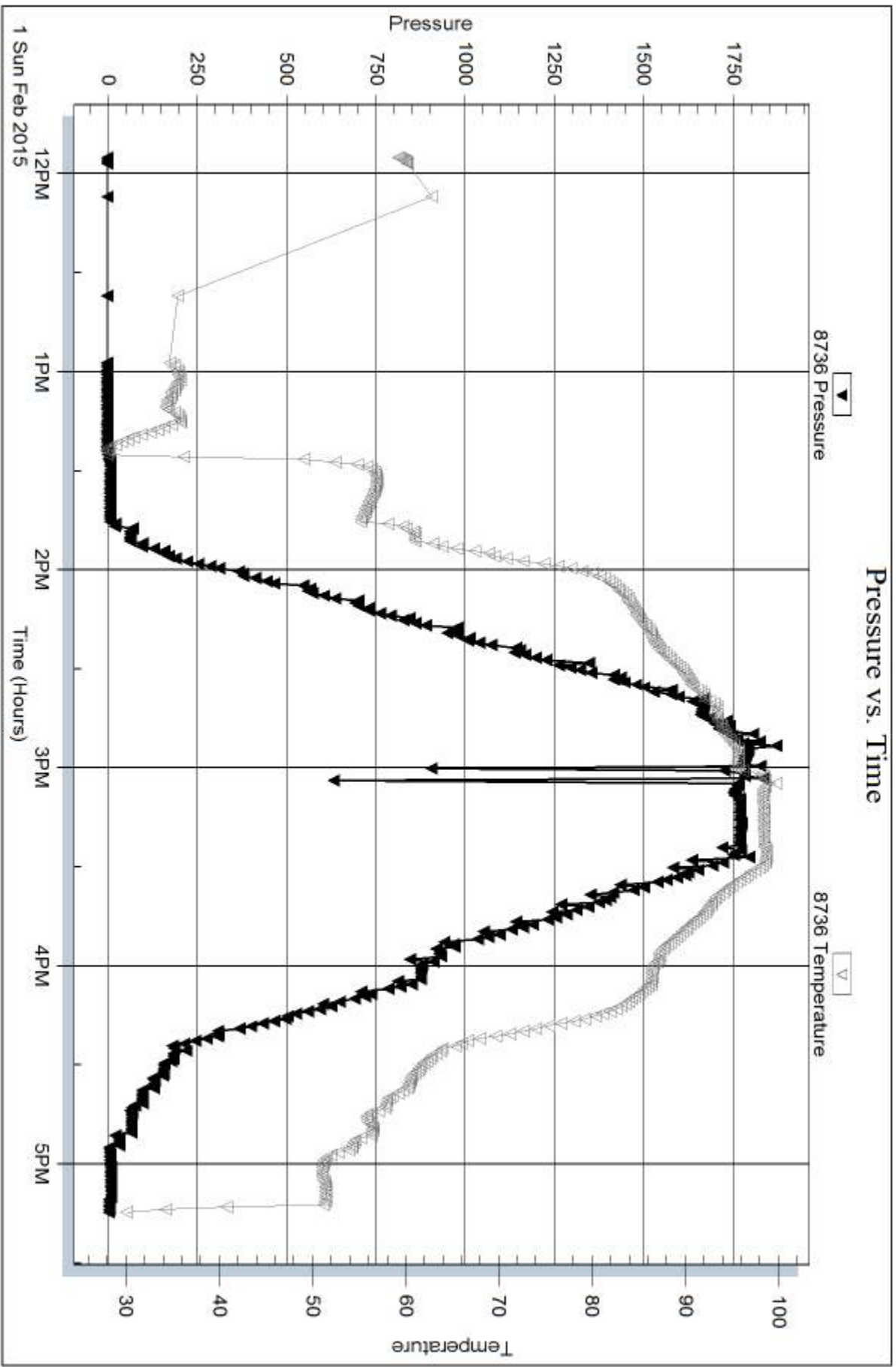
Serial #: 8736

Inside

John O Farmer

McCall B #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 53842

Printed: 2015.02.05 @ 09:21:38



DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

McCall B #1

16-9s-22w Graham,KS

Start Date: 2015.02.01 @ 17:40:00

End Date: 2015.02.01 @ 21:59:45

Job Ticket #: 53843 DST #: 2

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

Printed: 2015.02.05 @ 09:21:15

John O Farmer
16-9s-22w Graham,KS
McCall B #1
DST # 2
KC"C-D"
2015.02.01



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

16-9s-22w Graham,KS

PO Box 352
Russell KS 67665

McCall B #1

Job Ticket: 53843

DST#: 2

ATTN: Austin Klaus

Test Start: 2015.02.01 @ 17:40:00

Tool Information

Drill Pipe:	Length: 3488.00 ft	Diameter: 3.80 inches	Volume: 48.93 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 33000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3608.00 ft			Final 33000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3593.00	
Hydraulic tool	5.00			3598.00	
Packer	5.00			3603.00	20.00 Bottom Of Top Packer
Packer	5.00			3608.00	
Stubb	1.00			3609.00	
Recorder	0.00	8736	Inside	3609.00	
Recorder	0.00	8957	Outside	3609.00	
Perforations	9.00			3618.00	
Change Over Sub	1.00			3619.00	
Drill Pipe	31.00			3650.00	
Change Over Sub	1.00			3651.00	
Bullnose	3.00			3654.00	46.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

16-9s-22w Graham,KS

PO Box 352
Russell KS 67665

McCall B #1

Job Ticket: 53843

DST#: 2

ATTN: Austin Klaus

Test Start: 2015.02.01 @ 17:40:00

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00		1.554

Total Length: 190.00 ft

Total Volume: 1.554 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

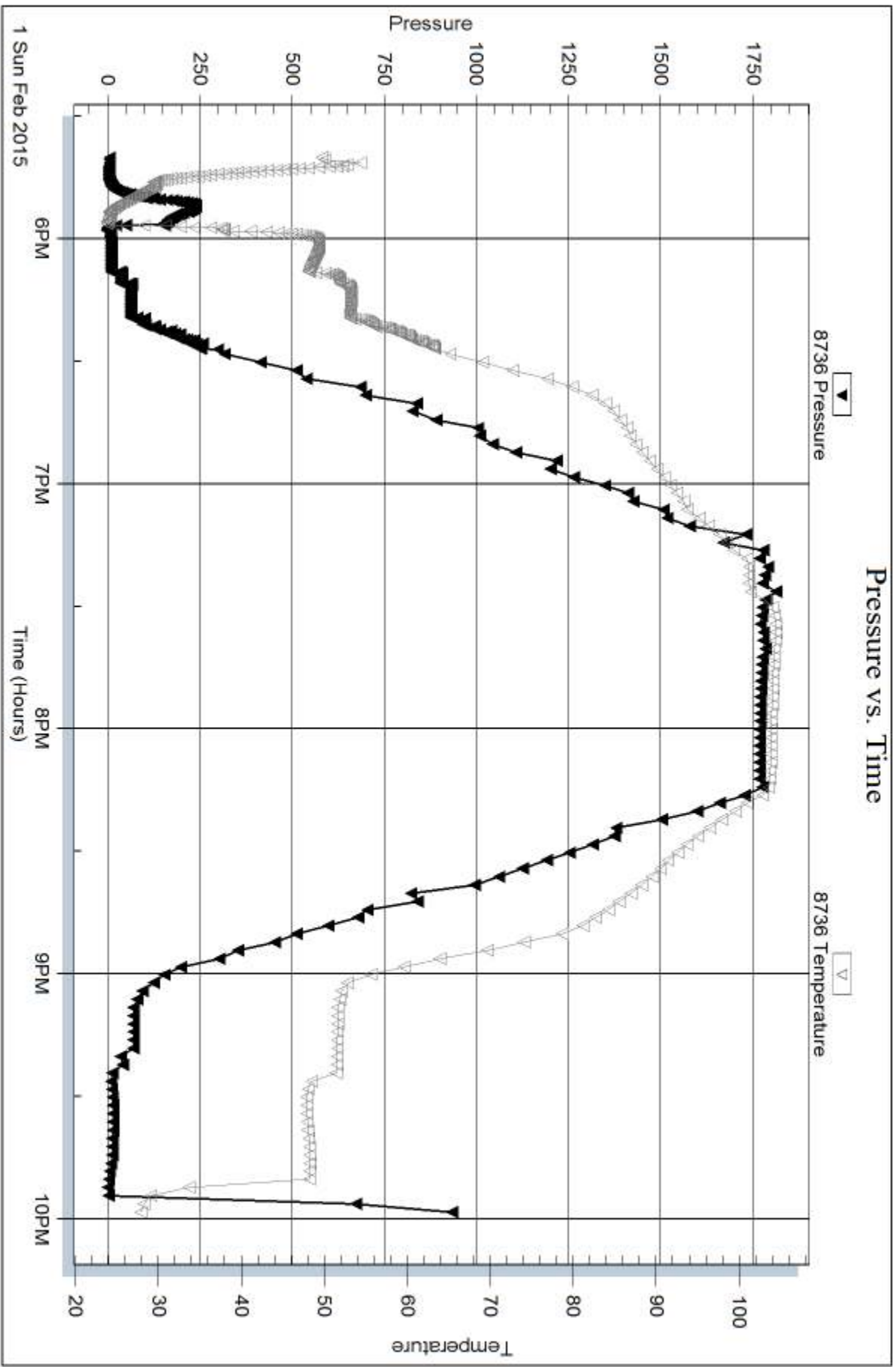
Serial #: 8736

Inside

John O Farmer

McCall B #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 53843

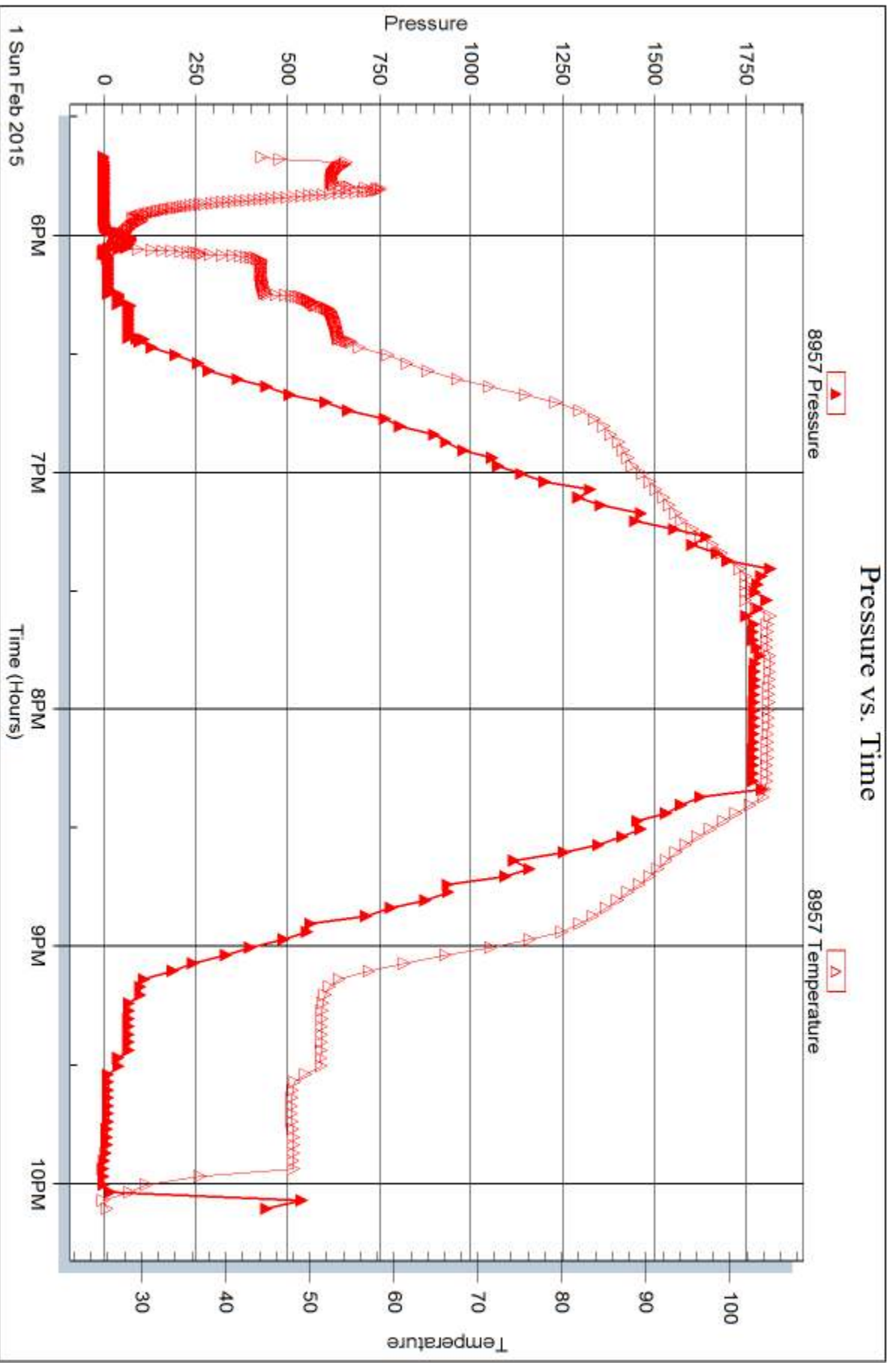
Printed: 2015.02.05 @ 09:21:16

Serial #: 8957

Outside John O Farmer

McCall B #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 53843

Printed: 2015.02.05 @ 09:21:16



DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

McCall B #1

16-9s-22w Graham,KS

Start Date: 2015.02.02 @ 07:40:00

End Date: 2015.02.02 @ 13:37:15

Job Ticket #: 53844 DST #: 3

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

Printed: 2015.02.05 @ 09:20:50

John O Farmer
16-9s-22w Graham,KS
McCall B #1
DST # 3
KC "F"
2015.02.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer

16-9s-22w Graham,KS

PO Box 352
Russell KS 67665

McCall B #1

Job Ticket: 53844

DST#: 3

ATTN: Austin Klaus

Test Start: 2015.02.02 @ 07:40:00

GENERAL INFORMATION:

Formation: **KC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:54:15

Time Test Ended: 13:37:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3665.00 ft (KB) To 3682.00 ft (KB) (TVD)

Reference Elevations: 2333.00 ft (KB)

Total Depth: 3682.00 ft (KB) (TVD)

2328.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8736

Inside

Press@RunDepth: 136.61 psig @ 3666.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.02.02

End Date:

2015.02.02

Last Calib.:

2015.02.02

Start Time: 07:40:05

End Time:

13:37:14

Time On Btm:

2015.02.02 @ 09:53:15

Time Off Btm:

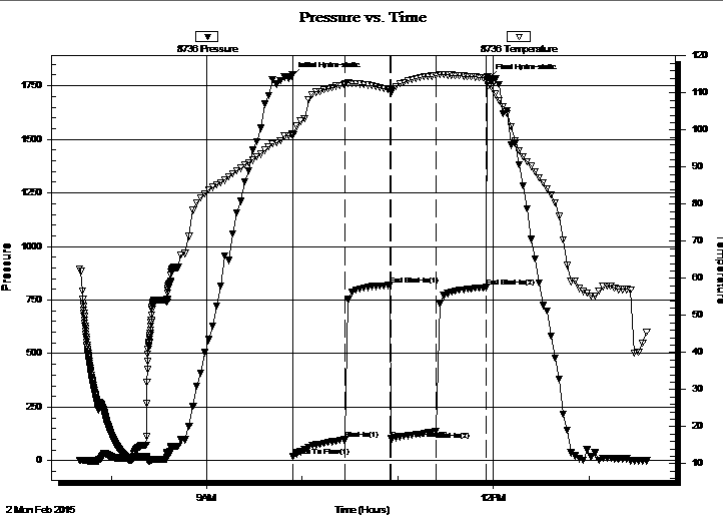
2015.02.02 @ 11:57:00

TEST COMMENT: IF-BOB in 29 min

ISI-No blow

FF-8in blow

FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1791.92	98.81	Initial Hydro-static
1	20.80	98.72	Open To Flow (1)
34	98.61	112.39	Shut-In(1)
62	818.59	110.80	End Shut-In(1)
63	102.06	110.47	Open To Flow (2)
91	136.61	114.74	Shut-In(2)
123	808.72	114.08	End Shut-In(2)
124	1785.30	112.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	VSMCW 5%M 95%W	0.12

* 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

16-9s-22w Graham,KS

PO Box 352
Russell KS 67665

McCall B #1

Job Ticket: 53844

DST#: 3

ATTN: Austin Klaus

Test Start: 2015.02.02 @ 07:40:00

Tool Information

Drill Pipe:	Length: 3552.00 ft	Diameter: 3.80 inches	Volume: 49.83 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	35000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
			- bbl	String Weight: Initial	33000.00 lb
Drill Pipe Above KB:	29.00 ft			Final	34000.00 lb
Depth to Top Packer:	3665.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	17.00 ft				
Tool Length:	37.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3650.00	
Hydraulic tool	5.00			3655.00	
Packer	5.00			3660.00	20.00 Bottom Of Top Packer
Packer	5.00			3665.00	
Packer - Shale	0.00			3665.00	
Stubb	1.00			3666.00	
Recorder	0.00	8736	Inside	3666.00	
Recorder	0.00	8957	Outside	3666.00	
Perforations	13.00			3679.00	
Bullnose	3.00			3682.00	17.00 Bottom Packers & Anchor
Total Tool Length:	37.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

16-9s-22w Graham,KS

PO Box 352
Russell KS 67665

McCall B #1

Job Ticket: 53844

DST#: 3

ATTN: Austin Klaus

Test Start: 2015.02.02 @ 07:40:00

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:

43000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
25.00	VSMCW 5%M 95%W	0.123

Total Length: 25.00 ft Total Volume: 0.123 bbf

Num Fluid Samples: 0

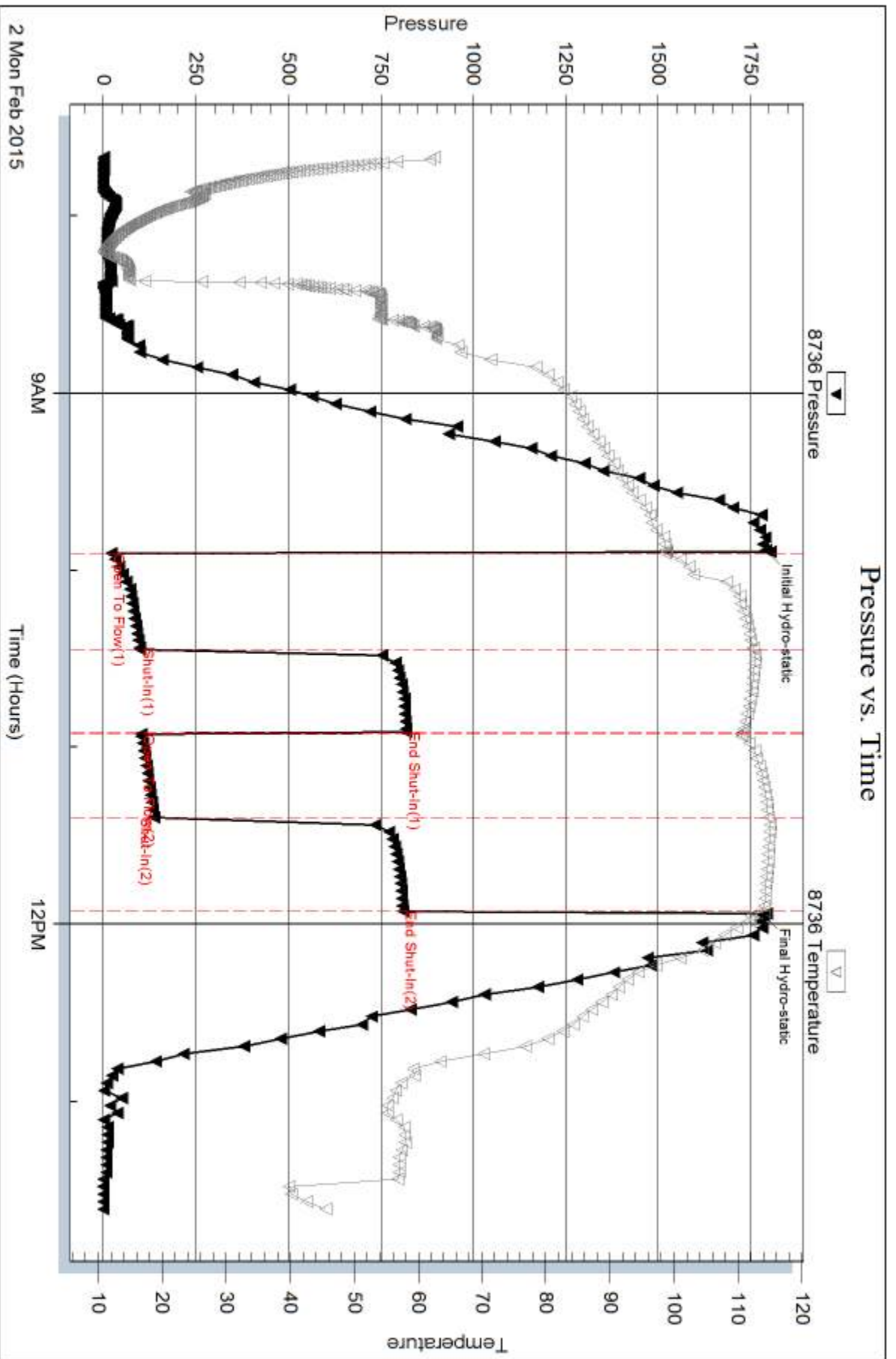
Num Gas Bombs: 0

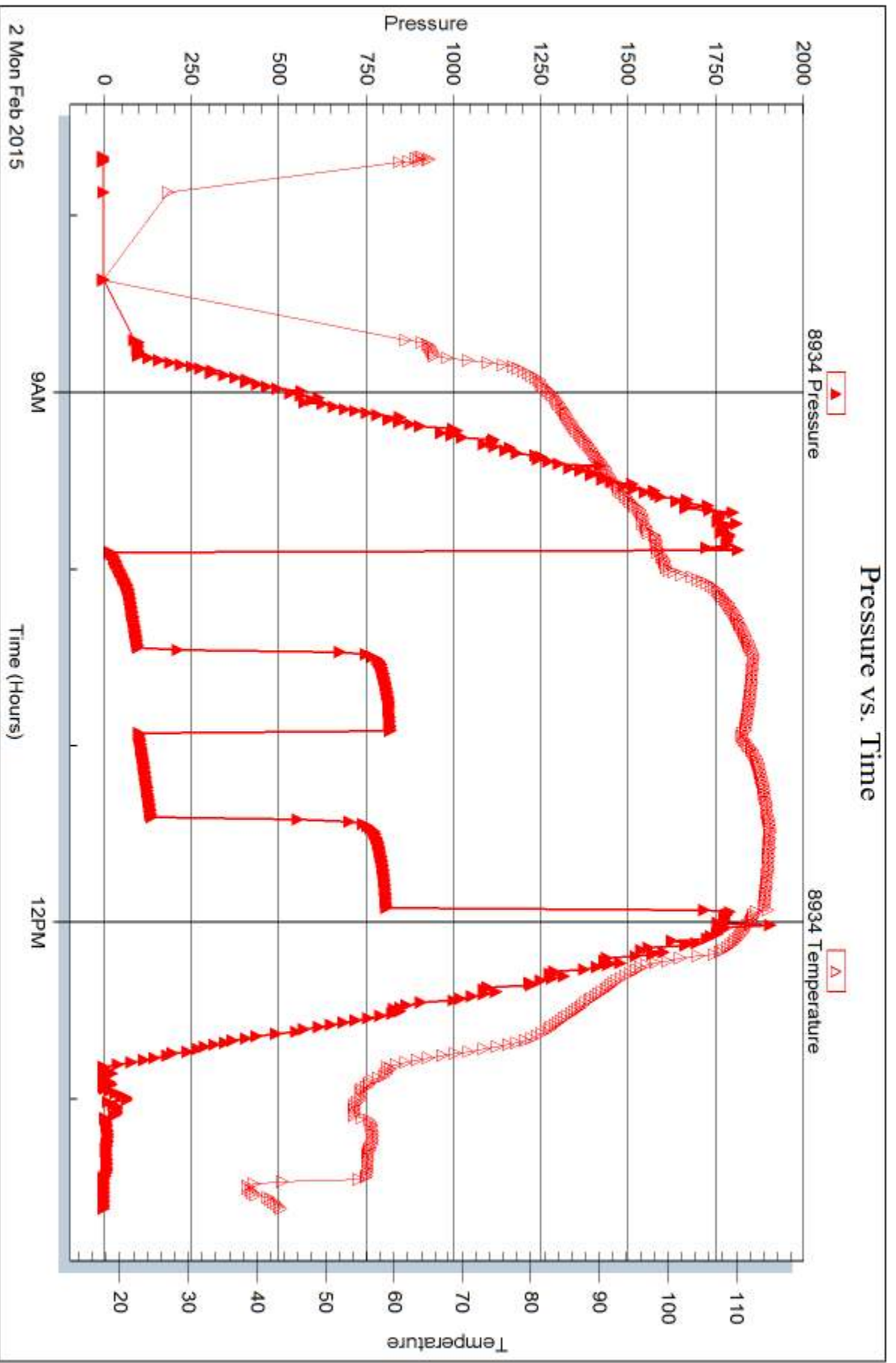
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

McCall B #1

16-9s-22w Graham,KS

Start Date: 2015.02.03 @ 03:10:00

End Date: 2015.02.03 @ 09:38:15

Job Ticket #: 53845 DST #: 4

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

Printed: 2015.02.05 @ 09:20:20



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer

16-9s-22w Graham,KS

PO Box 352
Russell KS 67665

McCall B #1

Job Ticket: 53845

DST#: 4

ATTN: Austin Klaus

Test Start: 2015.02.03 @ 03:10:00

GENERAL INFORMATION:

Formation: **KC"H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:00:15

Time Test Ended: 09:38:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3708.00 ft (KB) To 3806.00 ft (KB) (TVD)

Reference Elevations: 2333.00 ft (KB)

Total Depth: 3806.00 ft (KB) (TVD)

2328.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8736

Inside

Press@RunDepth: 57.61 psig @ 3709.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.02.03

End Date:

2015.02.03

Last Calib.:

2015.02.03

Start Time: 03:10:05

End Time:

09:38:14

Time On Btm:

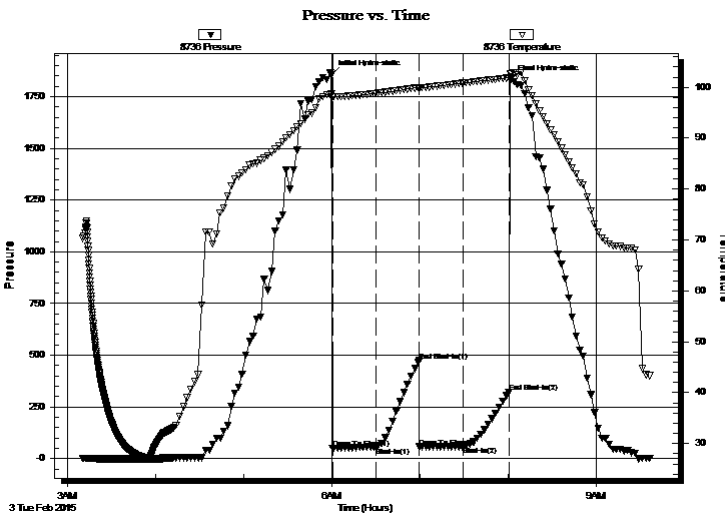
2015.02.03 @ 05:59:30

Time Off Btm:

2015.02.03 @ 08:02:00

TEST COMMENT: IF-1 3/4" blow
IS-No blow
FF-Vey w eak surace blow
FS-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1857.15	98.63	Initial Hydro-static
1	50.52	98.19	Open To Flow (1)
31	54.00	98.82	Shut-In(1)
60	473.51	99.95	End Shut-In(1)
60	56.13	99.79	Open To Flow (2)
90	57.61	100.82	Shut-In(2)
121	320.34	101.88	End Shut-In(2)
123	1834.69	102.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud	0.07

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

16-9s-22w Graham,KS

PO Box 352
Russell KS 67665

McCall B #1

Job Ticket: 53845

DST#: 4

ATTN: Austin Klaus

Test Start: 2015.02.03 @ 03:10:00

Tool Information

Drill Pipe:	Length: 3583.00 ft	Diameter: 3.80 inches	Volume: 50.26 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3708.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	98.00 ft			
Tool Length:	118.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3693.00	
Hydraulic tool	5.00			3698.00	
Packer	5.00			3703.00	20.00 Bottom Of Top Packer
Packer	5.00			3708.00	
Stubb	1.00			3709.00	
Recorder	0.00	8736	Inside	3709.00	
Recorder	0.00	8934	Outside	3709.00	
Perforations	5.00			3714.00	
Change Over Sub	1.00			3715.00	
Drill Pipe	64.00			3779.00	
Change Over Sub	1.00			3780.00	
Perforations	23.00			3803.00	
Bullnose	3.00			3806.00	98.00 Bottom Packers & Anchor

Total Tool Length: 118.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

16-9s-22w Graham,KS

PO Box 352
Russell KS 67665

McCall B #1

Job Ticket: 53845

DST#: 4

ATTN: Austin Klaus

Test Start: 2015.02.03 @ 03:10:00

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: 61.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
15.00	Mud	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbf

Num Fluid Samples: 0

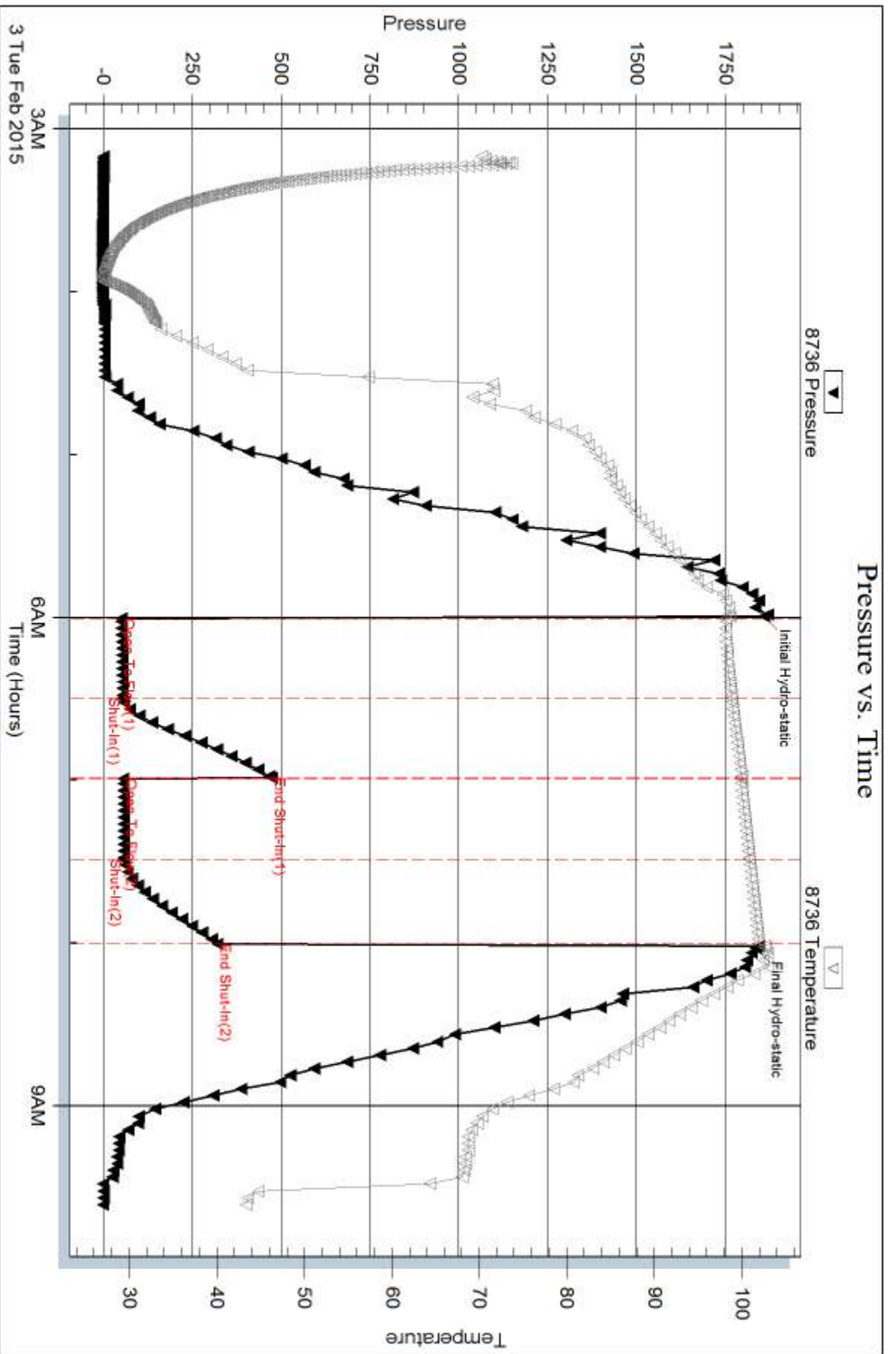
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

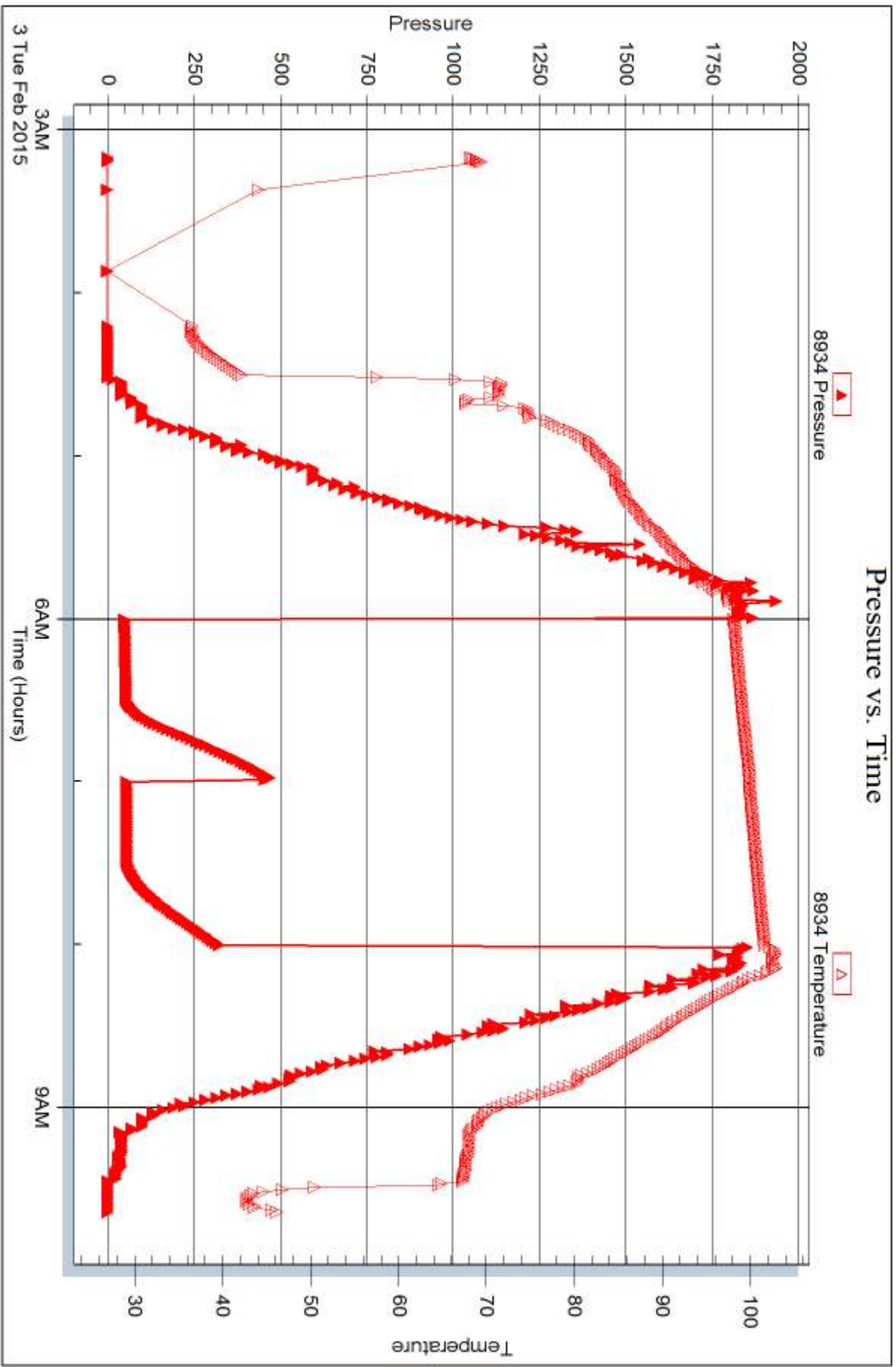


Serial #: 8934

Outside John O Farmer

McCall B #1

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 53845

Printed: 2015.02.05 @ 09:20:21



DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

McCall B #1

16-9s-22w Graham,KS

Start Date: 2015.02.04 @ 06:45:00

End Date: 2015.02.04 @ 13:26:45

Job Ticket #: 53846 DST #: 5

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

Printed: 2015.02.05 @ 09:19:32



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer

16-9s-22w Graham,KS

PO Box 352
Russell KS 67665

McCall B #1

Job Ticket: 53846

DST#: 5

ATTN: Austin Klaus

Test Start: 2015.02.04 @ 06:45:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:14:00

Time Test Ended: 13:26:45

Test Type: Conventional Straddle (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3922.00 ft (KB) To 3980.00 ft (KB) (TVD)

Reference Elevations: 2333.00 ft (KB)

Total Depth: 4010.00 ft (KB) (TVD)

2328.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8736 Outside

Press@RunDepth: 739.54 psig @ 3923.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.02.04

End Date:

2015.02.04

Last Calib.:

2015.02.04

Start Time: 06:45:05

End Time:

13:26:44

Time On Btm:

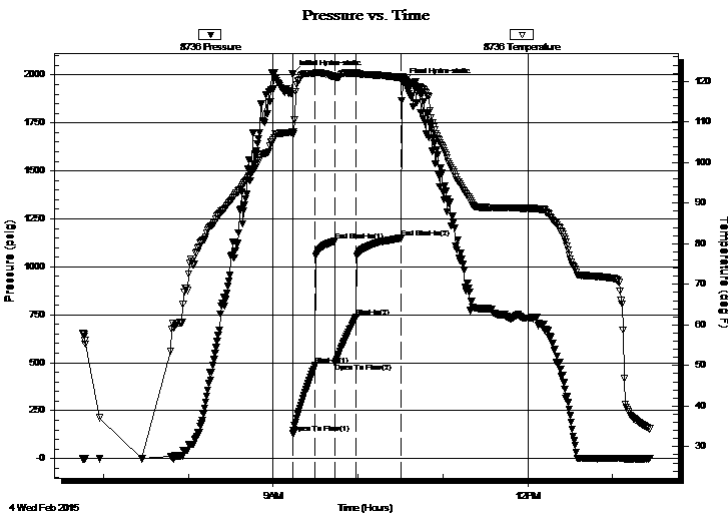
2015.02.04 @ 09:13:30

Time Off Btm:

2015.02.04 @ 10:31:30

TEST COMMENT: IF-BOB in 1 1/2 min
IS-Very weak surface blow
FF-BoB in 1 1/2 min
FS-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2004.59	107.66	Initial Hydro-static
1	129.59	106.99	Open To Flow (1)
16	485.91	121.95	Shut-In(1)
30	1134.77	121.14	End Shut-In(1)
31	497.67	120.84	Open To Flow (2)
46	739.54	121.93	Shut-In(2)
77	1149.28	120.86	End Shut-In(2)
78	1961.19	121.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1325.00	MCW 30%M 70%W	17.47

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

16-9s-22w Graham,KS

PO Box 352
Russell KS 67665

McCall B #1

Job Ticket: 53846

DST#: 5

ATTN: Austin Klaus

Test Start: 2015.02.04 @ 06:45:00

Tool Information

Drill Pipe:	Length: 3806.00 ft	Diameter: 3.80 inches	Volume: 53.39 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3922.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	3980.00 ft			
Interval between Packers:	58.00 ft			
Tool Length:	111.00 ft			
Number of Packers:	4	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3907.00	
Hydraulic tool	5.00			3912.00	
Packer	5.00			3917.00	20.00 Bottom Of Top Packer
Packer	5.00			3922.00	
Packer - Shale	0.00			3922.00	
Stubb	1.00			3923.00	
Recorder	0.00	8934	Inside	3923.00	
Recorder	0.00	8736	Outside	3923.00	
Perforations	15.00			3938.00	
Change Over Sub	1.00			3939.00	
Drill Pipe	31.00			3970.00	
Change Over Sub	1.00			3971.00	
Perforations	5.00			3976.00	
Blank Off Sub	4.00			3980.00	58.00 Tool Interval
Packer	5.00			3985.00	
Blank Spacing	5.00			3990.00	
Perforations	20.00			4010.00	
Recorder	0.00	8957	Below	4010.00	
Bullnose	3.00			4013.00	33.00 Bottom Packers & Anchor

Total Tool Length: 111.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

16-9s-22w Graham,KS

PO Box 352
Russell KS 67665

McCall B #1

Job Ticket: 53846

DST#: 5

ATTN: Austin Klaus

Test Start: 2015.02.04 @ 06:45:00

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:

25000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1325.00	MCW 30%M 70%W	17.475

Total Length: 1325.00 ft Total Volume: 17.475 bbl

Num Fluid Samples: 0

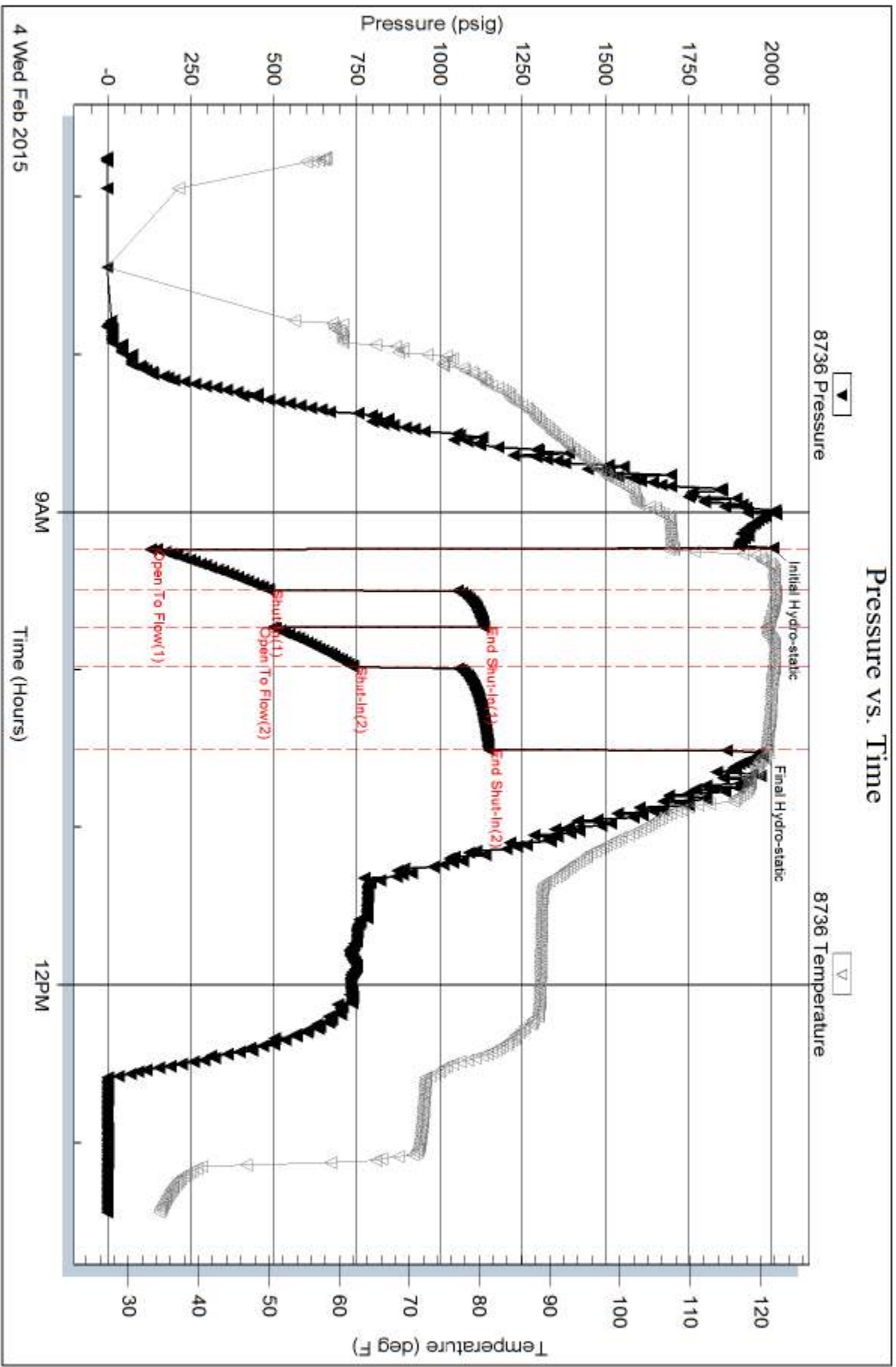
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



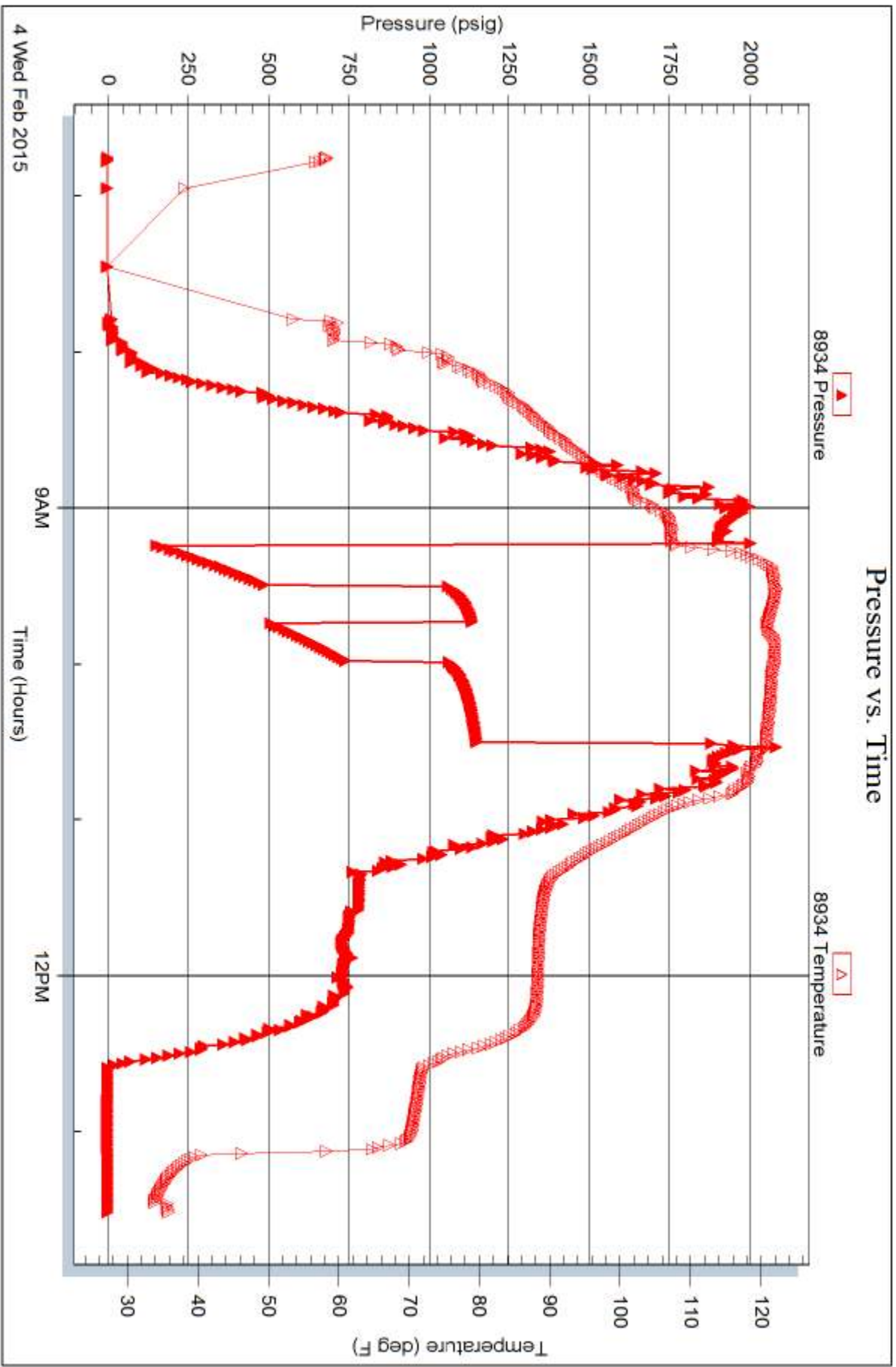
Serial #: 8934

Inside

John O Farmer

McCall B #1

DST Test Number: 5

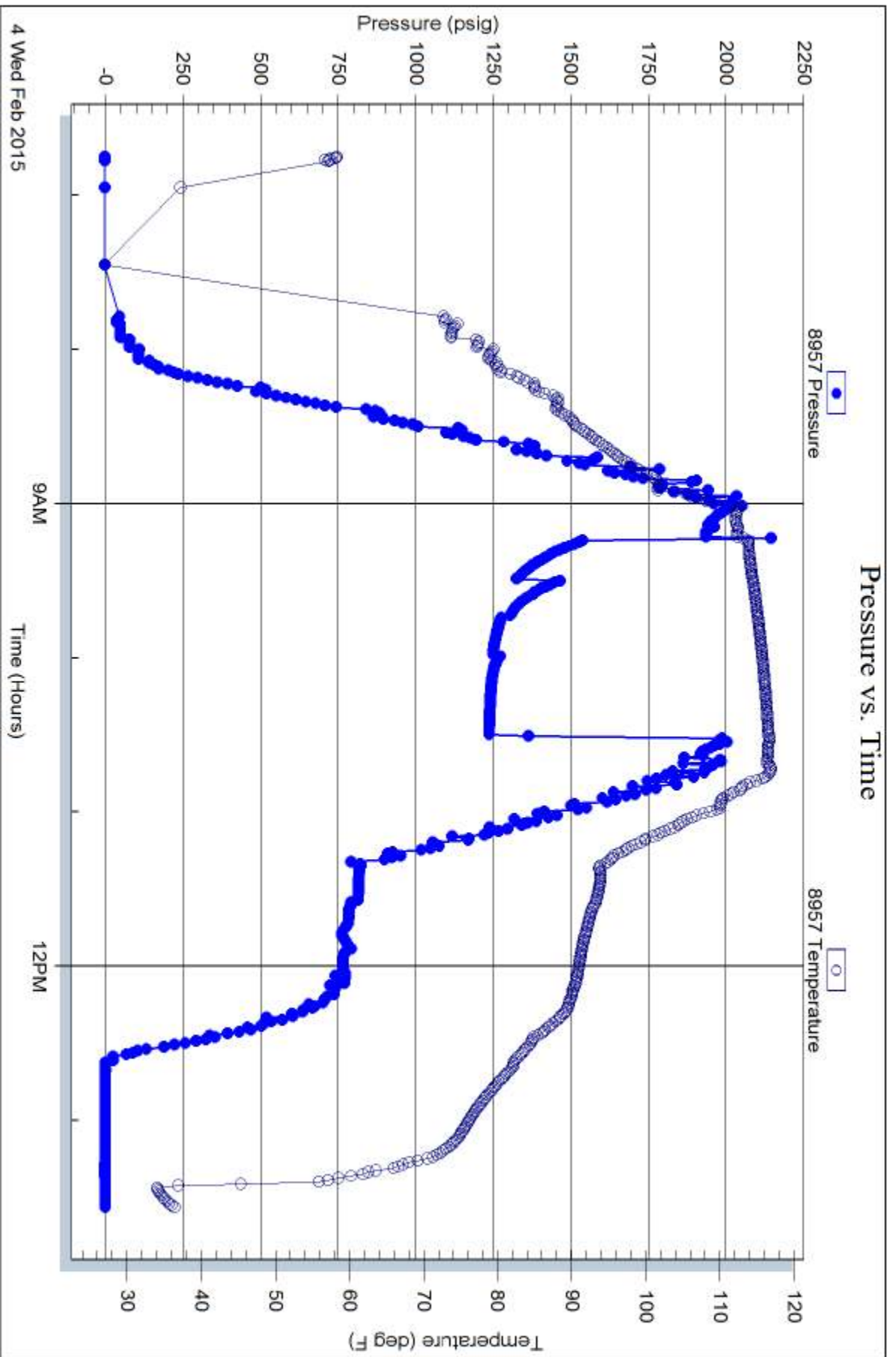


Serial #: 8957

Below (Straddle) Farmer

McCall B #1

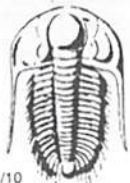
DST Test Number: 5



Triobite Testing, Inc

Ref. No: 53846

Printed: 2015.02.05 @ 09:19:34



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53842

Well Name & No. John O. Farmer, Inc. McColl B#1 Test No. 1 Date 2-1-15
 Company John O. Farmer, Inc. Elevation 2328 KB 2333 GL
 Address PO Box 352 Russell KS 67665
 Co. Rep / Geo. Austin Klaus Rig WW #6
 Location: Sec. 16 Twp. 9s Rge. 22w Co. Graham State KS

Interval Tested 3616-3654 Zone Tested KC¹ C-D
 Anchor Length 38 Drill Pipe Run _____ Mud Wt. 8.9
 Top Packer Depth 3611 Drill Collars Run _____ Vis 61
 Bottom Packer Depth 3616 Wt. Pipe Run — WL 7.2
 Total Depth 3654 Chlorides 1,300 ppm System LCM 1
 Blow Description IF - packer failure

Rec	Feet of	%gas	%oil	%water	%mud
<u>380</u>	<u>Mad</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 380 BHT _____ Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

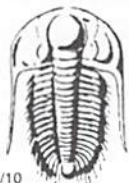
(A) Initial Hydrostatic Test 850 T-On Location 11:15
 (B) First Initial Flow Jars _____ T-Started 11:55
 (C) First Final Flow Safety Joint _____ T-Open 15:00
 (D) Initial Shut-In Circ Sub _____ T-Pulled 17:15
 (E) Second Initial Flow Hourly Standby _____ T-Out _____
 (F) Second Final Flow Mileage 110-7 110 Comments _____
 (G) Final Shut-In Sampler _____
 (H) Final Hydrostatic Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open _____
 Initial Shut-In _____
 Final Flow _____
 Final Shut-In _____

Sub Total 960
 Total 960
 MP/DST Disc't _____

Approved By _____ Our Representative Beth D...

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. 53843

4/10

Well Name & No. McLell B #1 Test No. 2 Date 2-1-15
 Company John O Farmer, Inc. Elevation 2328 KB 2333 GL
 Address _____
 Co. Rep / Geo. Austin Klaus Rig WW # 6
 Location: Sec. 16 Twp. 9s Rge. 22w Co. Graham State KS

Interval Tested 3608-3654 Zone Tested KC" C-D "
 Anchor Length 46 Drill Pipe Run _____ Mud Wt. 8.9
 Top Packer Depth 3603 Drill Collars Run 122 Vis 61
 Bottom Packer Depth 3608 Wt. Pipe Run _____ WL 7.2
 Total Depth 3654 Chlorides 1,300 ppm System LCM 1
 Blow Description IF - packer failure

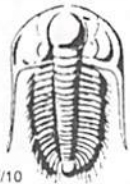
Rec	Feet of	%gas	%oil	%water	%mud
<u>190</u>	<u>Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

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

(A) Initial Hydrostatic _____ Test 850 T-On Location 17:30
 (B) First Initial Flow _____ Jars _____ T-Started 17:30
 (C) First Final Flow _____ Safety Joint _____ T-Open 19:30
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 22:00
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 22:00
 (F) Second Final Flow _____ Mileage 110 RT Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic _____ Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open _____ Extra Recorder _____ Sub Total 0
 Initial Shut-In _____ Day Standby _____ Total 850
 Final Flow _____ Accessibility _____ MP/DST Disc't _____
 Final Shut-In _____ Sub Total 850

Approved By _____ Our Representative Burt D...

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. 53844

Well Name & No. McCall B#1 Test No. 3 Date 2-2-10
 Company John O. Farmer, Inc. Elevation 2328 KB 2833 GL
 Address _____
 Co. Rep / Geo. Austin Klaus Rig Ww #6
 Location: Sec. 16 Twp. 9s Rge. 22w Co. Graham State Ks

Interval Tested 3665 - 3682 Zone Tested KC 11' "
 Anchor Length 17 Drill Pipe Run _____ Mud Wt. _____
 Top Packer Depth 3660 Drill Collars Run 122 Vis _____
 Bottom Packer Depth 3665 Wt. Pipe Run _____ WL _____
 Total Depth 3682 Chlorides _____ ppm System LCM _____
 Blow Description IF - BOB in 29 min
FSI - No blow
FP - 8 in blow
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>250</u>	<u>vs mcn</u>		<u>95</u>	<u>5</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 250 BHT 114 Gravity _____ API RW .35 @ 35 °F Chlorides 43000 ppm
 (A) Initial Hydrostatic 1,792 Test 1050 T-On Location 7:35
 (B) First Initial Flow 21 Jars _____ T-Started 7:40
 (C) First Final Flow 99 Safety Joint _____ T-Open 9:55
 (D) Initial Shut-In 819 Circ Sub _____ T-Pulled 11:55
 (E) Second Initial Flow 102 Hourly Standby _____ T-Out 13:40
 (F) Second Final Flow 137 Mileage 110 Comments _____
 (G) Final Shut-In 809 Sampler _____
 (H) Final Hydrostatic 1,785 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1410
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1410

Approved By _____ Our Representative Burt

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. 53845

Well Name & No. McCall B #1 Test No. 4 Date 2-3-15
 Company John O Farmer, Inc. Elevation 2328 KB 2333 GL
 Address _____
 Co. Rep / Geo. Austin Klaus Rig Ww #6
 Location: Sec. 16 Twp. 9s Rge. 22w Co. Graham State KS

Interval Tested 3708-3806 Zone Tested Kc "H-K"
 Anchor Length 98 Drill Pipe Run _____ Mud Wt. _____
 Top Packer Depth 3703 Drill Collars Run 122 Vis _____
 Bottom Packer Depth 3708 Wt. Pipe Run _____ WL _____
 Total Depth 3806 Chlorides _____ ppm System LCM _____

Blow Description IF - 1 3/4
ISF - No blow
FF - very weak surface blow
FSF - No blow

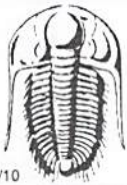
Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Mud</u>				
____	____				
____	____				
____	____				

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

(A) Initial Hydrostatic <u>1857</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1:00</u>
(B) First Initial Flow <u>51</u>	<input type="checkbox"/> Jars _____	T-Started <u>3:10</u>
(C) First Final Flow <u>54</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>5:58</u>
(D) Initial Shut-In <u>474.</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>7:58</u>
(E) Second Initial Flow <u>56</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>9:40</u>
(F) Second Final Flow <u>58</u>	<input checked="" type="checkbox"/> Mileage <u>110</u>	Comments _____
(G) Final Shut-In <u>320.34</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1,835</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1410</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1410</u>	

Approved By _____ Our Representative Burt Duce

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. 53846

4/10

Well Name & No. McCall B #1 Test No. 5 Date 2-4-15
 Company John O Farmer, Inc. Elevation 2328 KB 2333 GL
 Address _____
 Co. Rep/Geo. Austin Klaus Rig WW #6
 Location: Sec. 16 Twp. 9s Rge. 22w Co. Graham State KS

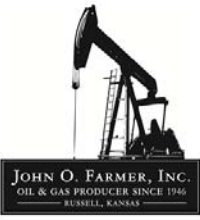
Interval Tested 3922 - 3980 Zone Tested KC "H-K"
 Anchor Length 58 Drill Pipe Run _____ Mud Wt. _____
 Top Packer Depth 3917, 3922 Drill Collars Run 122 Vis _____
 Bottom Packer Depth 3980 Wt. Pipe Run _____ WL _____
 Total Depth 4010 Chlorides _____ ppm System LCM _____
 Blow Description FF-BOB in 1 1/2 min
JSL - Very weak surface blow
FF-BOB in 1 1/2 min
FSL - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1325</u>	<u>MCW</u>			<u>70</u>	<u>30</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 1325 BHT 121 Gravity _____ API RW _____ @ _____ °F Chlorides 25000 ppm
 (A) Initial Hydrostatic 2,005 Test 1150 T-On Location 6:30
 (B) First Initial Flow 130 Jars _____ T-Started 6:45
 (C) First Final Flow 486 Safety Joint _____ T-Open 9:13
 (D) Initial Shut-In 1,135 Circ Sub 50 T-Pulled 10:28
 (E) Second Initial Flow 498 Hourly Standby _____ T-Out 13:30
 (F) Second Final Flow 740 Mileage 110 Comments _____
 (G) Final Shut-In 1,149 Sampler _____
 (H) Final Hydrostatic 1,961 Straddle 600 Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 15 Extra Recorder _____ Sub Total 0
 Initial Shut-In 15 Day Standby _____ Total 2160
 Final Flow 15 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 2160

Approved By _____ Our Representative Butt

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.



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: McCall B#1
Location: Graham County
License Number: API #15-065-24,096-0000
Spud Date: 1/28/15
Surface Coordinates: Section 16, Township 9 South, Range 22 West
2,310' FSL & 665' FEL
Bottom Hole Coordinates: Vertical well with minimal deviation, same as above
Ground Elevation (ft): 2,328' K.B. Elevation (ft): 2,333'
Logged Interval (ft): 3,300' To: RTD Total Depth (ft): 4,010'
Formation: LKC, Arbuckle
Type of Drilling Fluid: Chemical (Mud Co.)
Region: Kansas
Drilling Completed: 2/4/15

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

OPERATOR

Company: John O. Farmer, Inc.
Address: 370 W. Wichita Ave
Russell, KS 67665

Comments

The McCall B #1 well was drilled by WW Rig #6 (Tool Pusher: Mark Biggie).

The location for the McCall B #1 well was found via 3-D seismic survey. Geologic samples were collected and evaluated from 3,300'-4,010'. Structurally, the McCall B #1 ran 20' high to our correlation well, Walker #2 (Peel Hardman), at the Lansing. Two bottom-hole tests were attempted in the LKC C-D, packer failures occurred during each test. Two additional bottom-hole tests were conducted in the LKC F & H-K, both yielding negative results. The Arbuckle horizon was picked 29' high to the Walker #2, 1,850' to the northwest. Upon completion of the logging operation a straddle test was conducted in the Arbuckle, yielding negative results. Upon completion of the drill stem test, the decision was made to plug and abandon the McCall B #1 well on 2/4/15.

ROCK TYPES

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

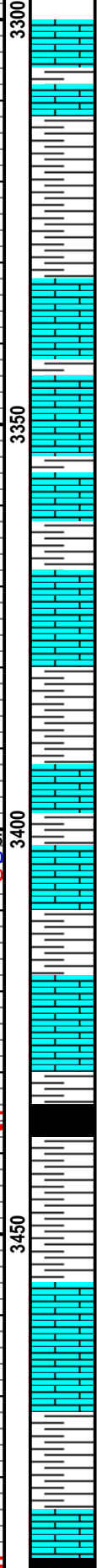
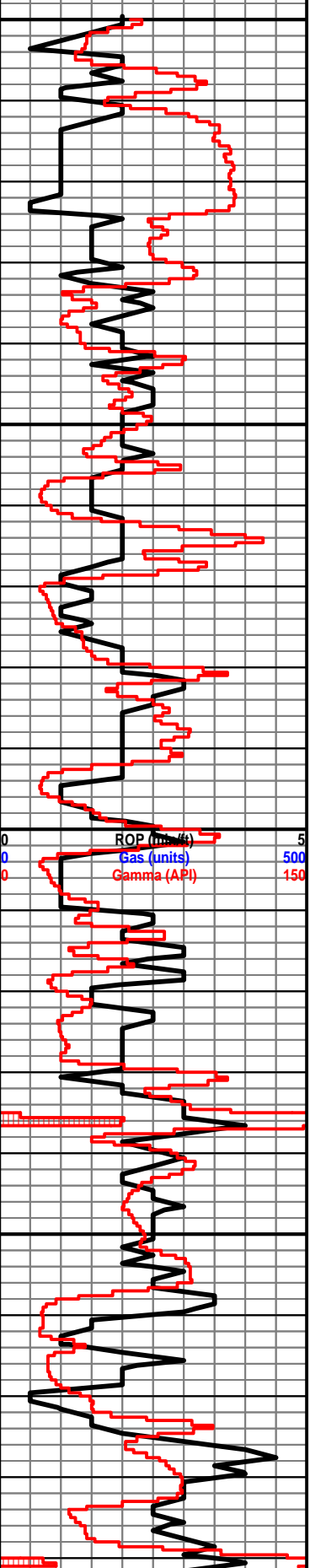
OTHER SYMBOLS

POROSITY	<input checked="" type="checkbox"/> Vuggy	ROUNDING	<input checked="" 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 checked="" type="checkbox"/> Even		
<input type="checkbox"/> Pinpoint				

Curve Track 1		Depth	Lithology	Geological Descriptions	DST/Mud/Survey
ROP (min/ft)					
0	ROP (min/ft)	5		The open-hole logging was performed by Mr. Gus Pfannenstiel with Gemini Wireline, LLC (Hays, KS). Logs included: Compensated Density/Compensated Neutron, Dual Induction, and Microresistivity logs. Formation tops and datums from the open-hole logs include the following:	Tester: Brett Dickinson Mud Engineer: Gray Schmidtberger
0	Gas (units)	500			
0	Gamma (API)	150			
		3200			
0	ROP (min/ft)	5			
0	Gas (units)	500			
0	Gamma (API)	150			
	1/28/15 @ 7:45pm				
	Spud				
	1/29/15 @ 7:00am				
	470', Drilling				
	1/30/15 @ 7:00am				
	2,279', Drilling				
	1/31/15 @ 7:00am				
	3,103', Drilling				
	2/1/15 @ 7:00am				
	3,654', Short Trip				
	2/2/15 @ 7:00am				
	3,682', DST #3				
	2/3/15 @ 7:00am				
	3,806', DST #4				

Anhydrite	1859	474
Topeka	3333	-1000
Heebner	3550	-1217
Lansing	3590	-1257
B/KC	3810	-1477
Arbuckle	3942	-1609
LTD	4010	-1677

2/4/15 @ 7:00am
4,010', DST #5



Ls: tan-lt brn, fn xln, fossil, DNS, scat pyrite

Ls: ala

Sh: drk gry-brn

Topeka 3333' (-1000)

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

Ls: ala

Ls: tan-brn, fn xln, mostly DNS

Sh: gry-brn

Ls: tan-lt brn, fn xln, scat int xln porosity, mostly barren, no odor, scat chert-off wh-gry

Sh: drk gry-brn

Ls: tan-brn, fn xln, fossil, mostly DNS

Sh: lt gry-drk gry-brn

Sh: gry

Ls: tan-lt brn-gry, fn xln, DNS, scat chalky

Ls: ala

Sh: blk, carb

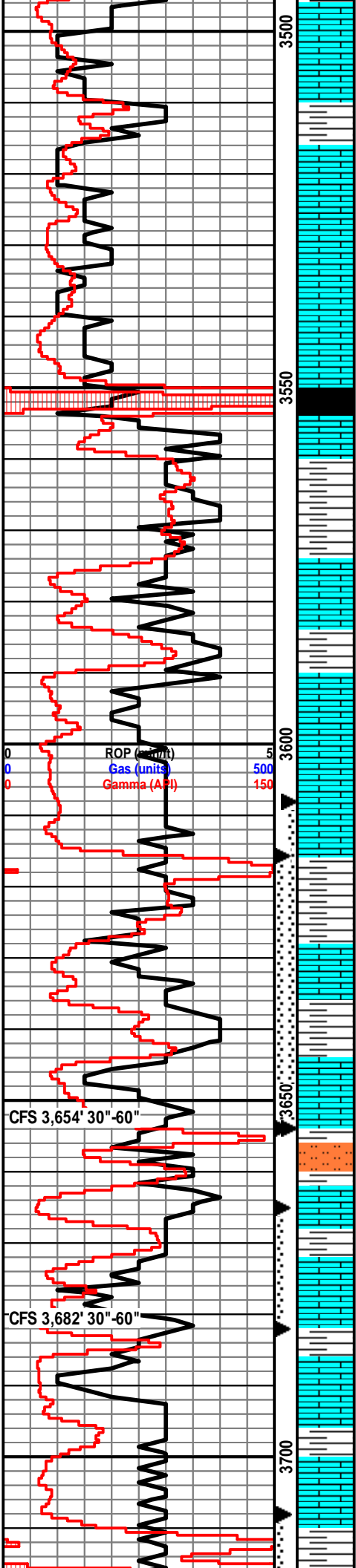
Sh: gry-brn-grn

Ls: tan-brn-gry, fn xln, DNS

Sh: drk gry-brn

Ls: tan-lt brn, fn xln, scat pp vuggy porosity, mostly barren, scat chert-off wh

Sh: blk, carb



Ls: brn-gry, fn xln, mostly DNS

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

Ls: brn-tan, fn xln, fossil, mostly DNS, chalky

Ls: off wh-tan, fn xln, poor vuggy porosity, scat oil st, NSFO, no odor

Ls: ala

Heebner 3554' (-1221)

Sh: blk, carb, fissile

Ls: tan-brn, fn xln, DNS, chalky

Sh, Slst: gry-brn-grn

Toronto 3577' (-1244)

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

Lansing 3591' (-1258)

Ls: tan-brn, fn xln, fossil ool, poor ool porosity, mostly barren, scat chalky

Ls: off wh-tan, fn-md xln, vry DNS, no visible porosity, scat chert-off wh, chalky

Sh: drk gry-blk

Ls: off wh-tan, fn xln, fair int xln & scat pp vuggy porosity, fair oil sat, SSFO, fair odor

Sh: drk gry-brn

Ls: off wh-tan, fn xln, poor-fair int xln & vuggy porosity, scat-fair oil st, NSFO, no odor, chalky

CFS 3,654' 30"-60"

Sh, Slst: gry-brn-grn, soft

Ls: tan-brn, fn xln, DNS

Sh: drk gry-brn

Ls: off wh-tan, fn xln, fair vuggy & int xln porosity, fair oil st in porosity, SSFO, sl odor, dull yel fluor

CFS 3,682' 30"-60"

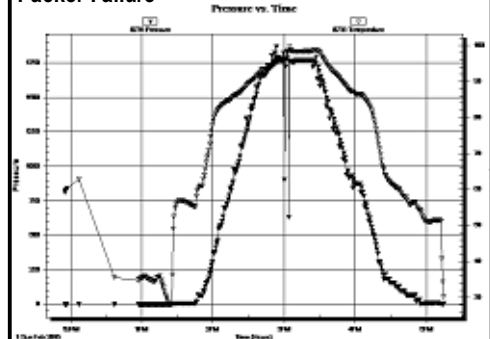
Ls: off wh-tan-lt gry, fn-md xln, vry DNS, no visible porosity, hvy chert-off wh

Sh: scat drk gry-brn-grn

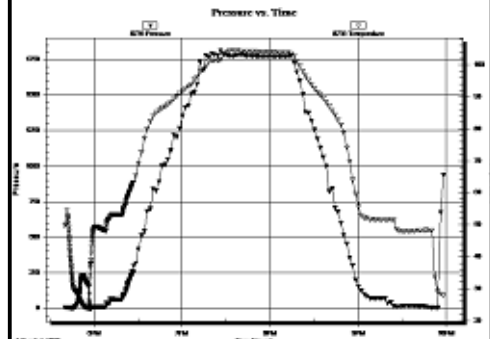
Ls: tan-lt gry, fn-md xln, mostly DNS, scat chert-off wh-gry

Sh: blk, carb, fissile

DST #1 3,616'-3,654' (LKC C-D)
Packer Failure

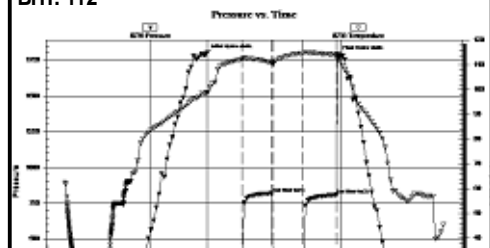


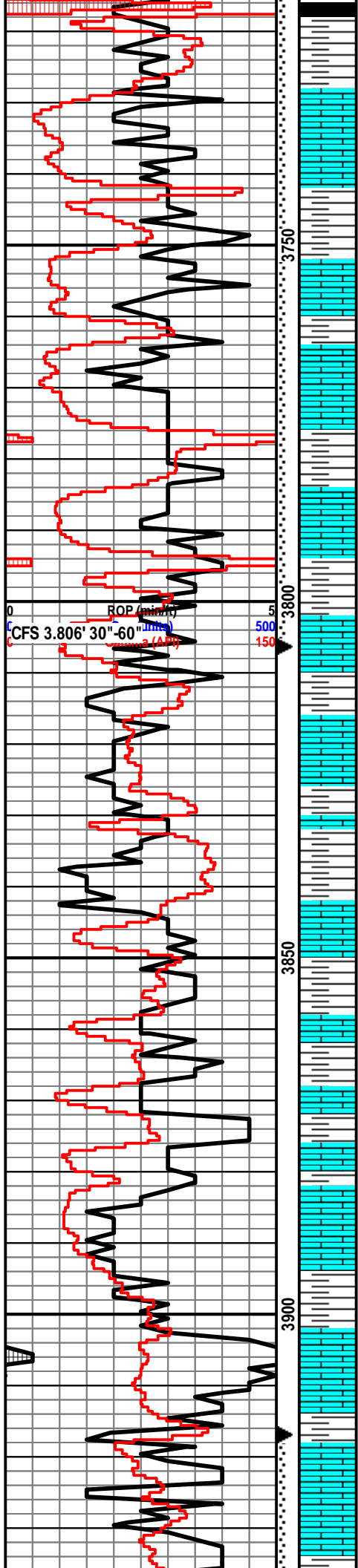
DST #2 3,608'-3,654' (LKC C-D)
Packer Failure



DST #3 3,665'-3,682' (LKC F)
30"-30"-30"-30"

IF: BOB in 29 minutes, no blow back
 FF: weak blow built to 8", no blow back
 Rec: 250' MCW (5% M, 95% W)
 FP: 21-99, 102-137#
 SIP: 818-809#
 HP: 1,792-1,785#
 BHT: 112





Sh: drk, carb, fissile

Sh: drk gry-brn-grn

Ls: off wh-tan, fn-md xln, poor int xln porosity, NSFO, no odor, mostly DNS, hvy chert-off wh

Sh: lt gry-drk gry

Ls: tan-lt brn, fn-md xln, fossil, ool, scat ool porosity, sl oil st in porosity, NSFO, no odor

Ls: tan-lt gry-brn, fn xln, scat pp vuggy porosity, sl oil st in porosity, NSFO, no odor

Sh: drk gry-brn

Ls: off wh-tan, fn-md xln, fossil, ool, fair ool porosity, fair-good sat in porosity, FSFO, fair-good odor

Ls: off wh-tan, fn xln, fossil, ool, poor-fair ool porosity, fair oil sat in porosity, SSFO, vry lt odor

B/KC 3811' (-1479)

Sh: gry-brn-grn

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

Sh: drk gry-brn-grn, soft

Ls: tan-drk brn, fn xln, DNS, hvy chert-off wh

Ls: ala, sl fossil

Ls: ala, mottled, DNS

Ls: tan-drk brn-gry, fn xln, DNS

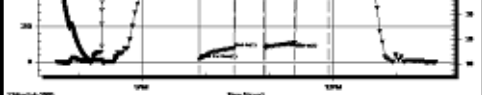
Sh: drk gry

Ls: off wh-tan, fn xln, vry DNS, orange

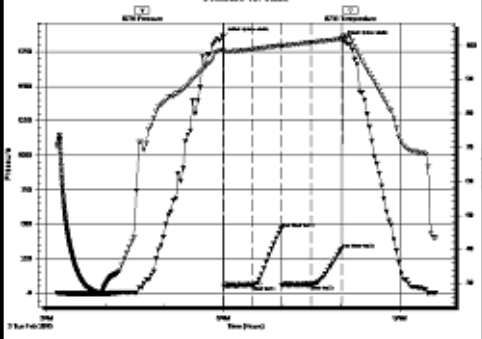
Sh: drk brn-rd

Ls: tan-brn, fn xln, vry DNS, hvy chert-off wh

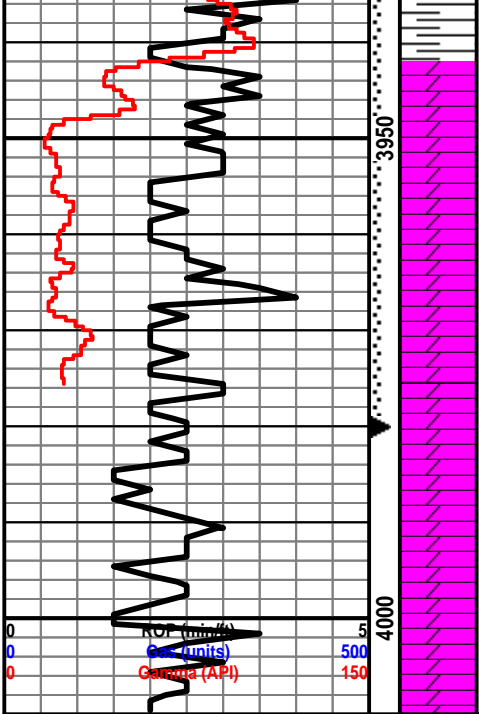
Ls: ala



DST #4 3,708'-3,806' (LKC H-K)
 30"-30"-30"-30"
 IF: weak blow built to 1.75"
 FF: weak surface blow
 Rec: 15' Mud
 FP: 51-54, 56-58#
 SIP: 474-320#
 HP: 1,857-1,835#
 BHT: 103



DST #5 3,917'-3,980' (Top 32' Arbuckle)
 15"-15"-15"-15"
 IF: BOB in 1.5 minutes, surface blow back
 FF: BOB in 1.5 minutes, no blow back
 Rec: 1,325' MCW (30% Mud, 70% W) - cl 25,000 nrm



Sh: drk gry-brn-grn
Arbuckle 3945' (-1612)

Dolo: off wh-tan, fn-md xln, poor int xln porosity, fair-good oil sat, SSFO, sl-fair odor

Dolo: off wh-tan-brn, fn-md xln, poor-fair int xln porosity, good oil sat, GSFO, good odor, fair yel fluor

Dolo: off wh-tan, fn-md xln, poor int xln porosity, good oil sat, FSFO, good odor, dull yel fluor

Dolo: off wh-tan, fn xln, scat int xln porosity, scat oil sat, SSFO, sl odor

Dolo: ala

ppm
 FP: 129-486, 498-1,149#
 SIP: 1,135-1,149#
 HP: 2,005-1,961#
 BHT: 122

