

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1253635
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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

1253635

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Commingled <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
--	---	---

QUALITY OILWELL CEMENTING, INC.

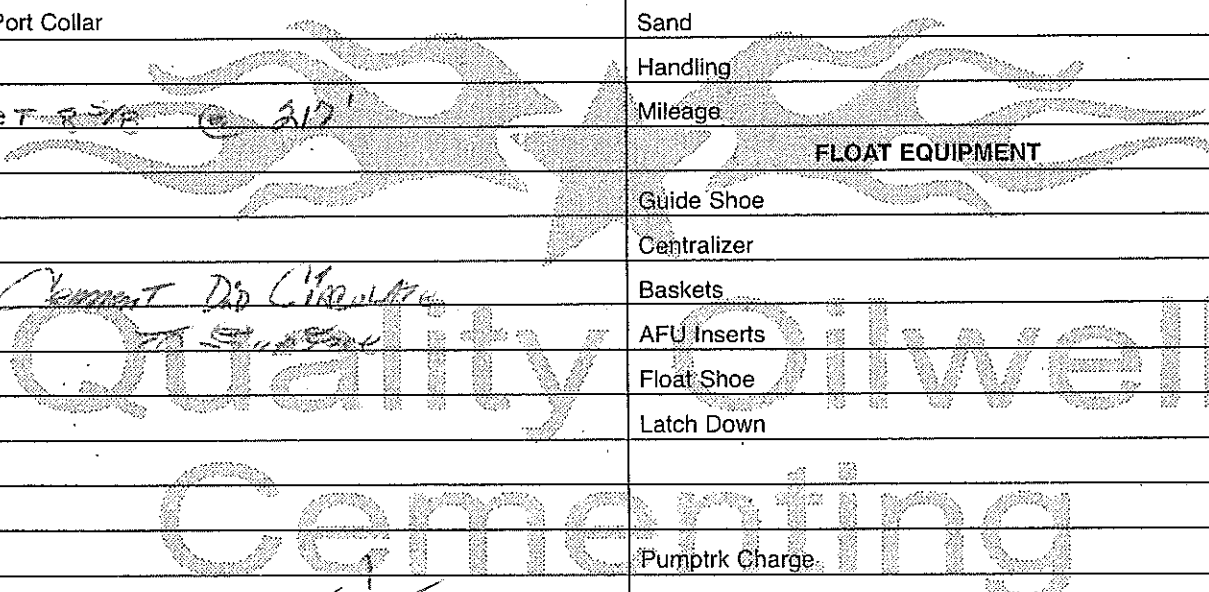
Federal Tax I.D.# 20-2886107

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

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

No. 1039

Date	2-7-2015	Sec.	11	Twp.	9	Range	22	County	RAWLINS	State	KANSAS	On Location		Finish	7:45 PM
Location													Red Line RD @ Pilsco 11 W (RD 310)		
Lease	VON LOENON "C"			Well No.	#1			Owner	UN (IE) YAS INTO						
Contractor	W-W DAVIS Rig #6 "MARK"							To Quality Oilwell Cementing, Inc. CURVE							
Type Job													SURFACE		
Hole Size													12 1/4		
Csg.													5/8 NEW		
Tbg. Size															
Tool															
Cement Left in Csg.													15'		
Meas Line													Displace 12.85/BBL		
EQUIPMENT													Common		
Pumptrk	18	No.	Cementer	G. JENNI			Poz. Mix								
Bulktrk	9	No.	Driver	GODY			Gel.								
Bulktrk		No.	Driver	R. J. J.			Calcium								
JOB SERVICES & REMARKS													Hulls		
Remarks:													Salt		
Rat Hole													Flowseal		
Mouse Hole													Kol-Seal		
Centralizers													Mud CLR 48		
Baskets													CFL-117 or CD110 CAF 38		
D/V or Port Collar													Sand		
Set @ 217'													Handling		
													Mileage		
FLOAT EQUIPMENT															
													Guide Shoe		
													Centralizer		
													Baskets		
													AFU Inserts		
													Float Shoe		
													Latch Down		
													Pumptrk Charge		
													Mileage		
													Tax		
													Discount		
X Signature													Total Charge		



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. 1389

Date	2-14-15	Sec.	11	Twp.	9	Range	22	County	Graham	State	KS	On Location		Finish	6:00AM
------	---------	------	----	------	---	-------	----	--------	--------	-------	----	-------------	--	--------	--------

Location *Palco Red line, 11w, 4N, 1E to curve, Sn 2*

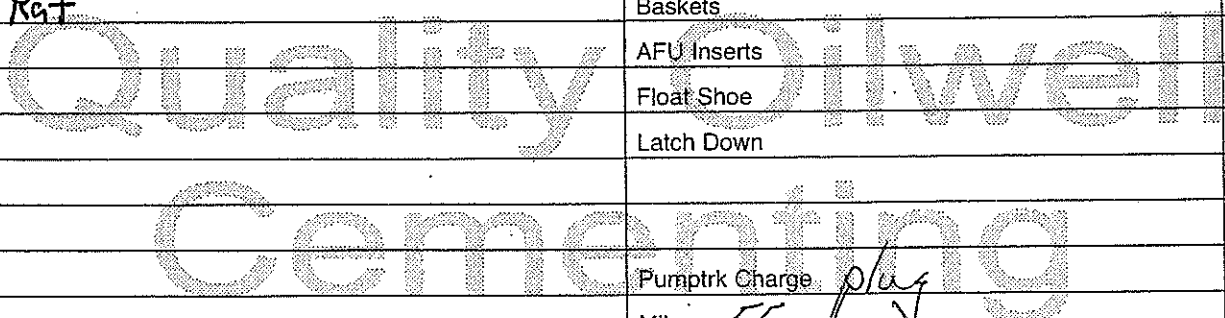
Lease	<i>Van Loenen c</i>	Well No.	<i>1</i>	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	<i>ww #6</i>			Charge To	<i>John O Farmer</i>
Type Job	<i>Plug</i>	T.D.		Street	
Hole Size	<i>7 7/8</i>	Depth		City	State
Csg.		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tbg. Size		Depth		Cement Amount Ordered <i>290 sx 60/40, 4% gel, KJ#Flo</i>	
Tool		Depth			
Cement Left in Csg.		Shoe Joint			
Meas Line		Displace			

EQUIPMENT

Pumptrk	<i>20</i>	No.		Cementer		Common	<i>174</i>
				Helper	<i>Nick</i>	Poz. Mix	<i>116</i>
Bulktrk	<i>4</i>	No.		Driver		Gel.	<i>10</i>
				Driver	<i>Lannie</i>	Calcium	
Bulktrk	<i>Ph</i>	No.		Driver		Hulls	
				Driver	<i>Travis</i>	Salt	

JOB SERVICES & REMARKS

Remarks:		Flowseal	<i>72#</i>
Rat Hole		Kol-Seal	
Mouse Hole		Mud CLR 48	
Centralizers		CFL-117 or CD110 CAF 38	
Baskets		Sand	
D/V or Port Collar		Handling	<i>300</i>
<i>50sx at 3774</i>		Mileage	
<i>50sx at 1740</i>		FLOAT EQUIPMENT	
<i>100sx at 955</i>		Guide Shoe	
<i>50sx at 270</i>		Centralizer	
<i>10sx at 40 with plug</i>		Baskets	
<i>30sx Rat</i>		AFU Inserts	
		Float Shoe	
		Latch Down	
		Pumptrk Charge	<i>plug</i>
		Mileage	<i>55</i>



Signature	<i>Mark Bigge</i>	Tax	
		Discount	
		Total Charge	



DRILL STEM TEST REPORT

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

PO Box 352
Russell, KS 67665

ATTN: Austin Klaus

Van Loenen C #1

11-9s-22w Graham,KS

Start Date: 2015.02.10 @ 22:47:00

End Date: 2015.02.11 @ 07:23:40

Job Ticket #: 62453 DST #: 1

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

Printed: 2015.02.16 @ 10:09:23

Farmer, John O, Inc.

11-9s-22w Graham,KS

Van Loenen C #1

DST # 1

Toronto - LKC "A"

2015.02.10



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Farmer, John O, Inc.

11-9s-22w Graham,KS

PO Box 352
Russell, KS 67665

Van Loenen C #1

Job Ticket: 62453

DST#: 1

ATTN: Austin Klaus

Test Start: 2015.02.10 @ 22:47:00

GENERAL INFORMATION:

Formation: **Toronto - LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:25:40

Time Test Ended: 07:23:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Phillip Gage

Unit No: 77

Interval: **3404.00 ft (KB) To 3462.00 ft (KB) (TVD)**

Reference Elevations: 2211.00 ft (KB)

Total Depth: 3462.00 ft (KB) (TVD)

2206.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8898 Outside

Press@RunDepth: 75.53 psig @ 3405.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.02.10

End Date:

2015.02.11

Last Calib.: 2015.02.11

Start Time: 22:47:01

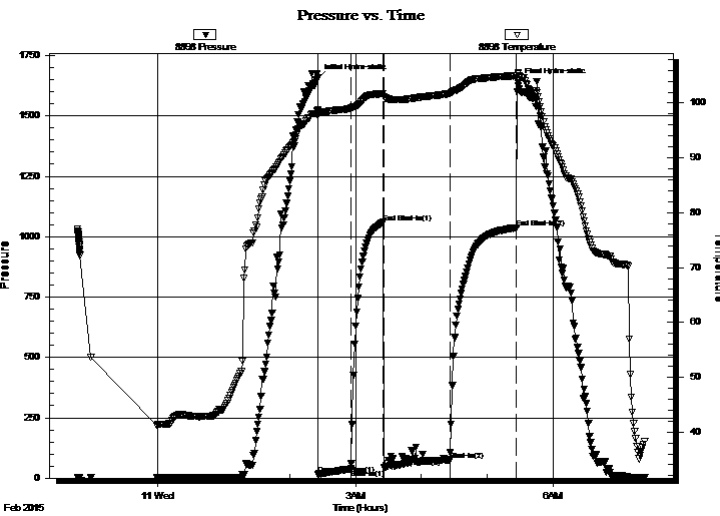
End Time:

07:23:40

Time On Btm: 2015.02.11 @ 02:25:30

Time Off Btm: 2015.02.11 @ 05:28:09

TEST COMMENT: 30-IF-Built to 3"
30-ISI-No Return
60-FF-Built to 2"
60-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1656.42	98.71	Initial Hydro-static
1	15.25	97.77	Open To Flow (1)
31	38.33	99.06	Shut-In(1)
60	1058.99	101.71	End Shut-In(1)
60	43.29	101.14	Open To Flow (2)
120	75.53	101.76	Shut-In(2)
181	1037.01	104.99	End Shut-In(2)
183	1637.10	105.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	SWCM, w ith oil spots 10%w , 90%m	0.72

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Farmer, John O, Inc.

11-9s-22w Graham, KS

PO Box 352
Russell, KS 67665

Van Loenen C #1

Job Ticket: 62453

DST#: 1

ATTN: Austin Klaus

Test Start: 2015.02.10 @ 22:47:00

GENERAL INFORMATION:

Formation: **Toronto - LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:25:40

Time Test Ended: 07:23:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Phillip Gage

Unit No: 77

Interval: 3404.00 ft (KB) To 3462.00 ft (KB) (TVD)

Reference Elevations: 2211.00 ft (KB)

Total Depth: 3462.00 ft (KB) (TVD)

2206.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8897 Inside

Press@RunDepth: psig @ 3405.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.02.10

End Date: 2015.02.11

Last Calib.: 2015.02.11

Start Time: 22:47:01

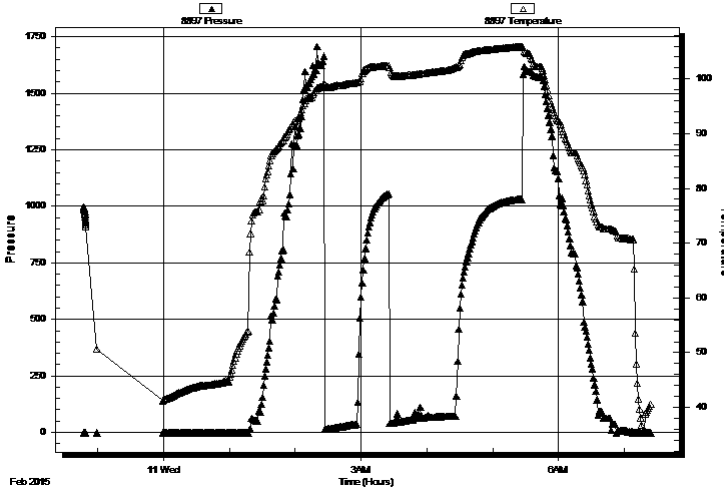
End Time: 07:24:10

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-Built to 3"
30-ISI-No Return
60-FF-Built to 2"
60-FSI-No Return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
130.00	SWCM, w ith oil spots 10%w , 90%m	0.72

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Farmer, John O, Inc.

11-9s-22w Graham,KS

PO Box 352
Russell, KS 67665

Van Loenen C #1

Job Ticket: 62453

DST#: 1

ATTN: Austin Klaus

Test Start: 2015.02.10 @ 22:47:00

Tool Information

Drill Pipe:	Length: 3273.00 ft	Diameter: 3.80 inches	Volume: 45.91 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 46.51 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3404.00 ft			Final 33000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	78.00 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			3389.00	
Hydraulic tool	5.00			3394.00	
Packer	5.00			3399.00	20.00 Bottom Of Top Packer
Packer	5.00			3404.00	
Stubb	1.00			3405.00	
Recorder	0.00	8897	Inside	3405.00	
Recorder	0.00	8898	Outside	3405.00	
Perforations	21.00			3426.00	
Change Over Sub	1.00			3427.00	
Drill Pipe	31.00			3458.00	
Change Over Sub	1.00			3459.00	
Bullnose	3.00			3462.00	58.00 Bottom Packers & Anchor

Total Tool Length: 78.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Farmer, John O, Inc.

11-9s-22w Graham,KS

PO Box 352
Russell, KS 67665

Van Loenen C #1

Job Ticket: 62453

DST#: 1

ATTN: Austin Klaus

Test Start: 2015.02.10 @ 22:47:00

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:

24000 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	SWCM, w ith oil spots 10%w , 90%m	0.721

Total Length: 130.00 ft Total Volume: 0.721 bbl

Num Fluid Samples: 0

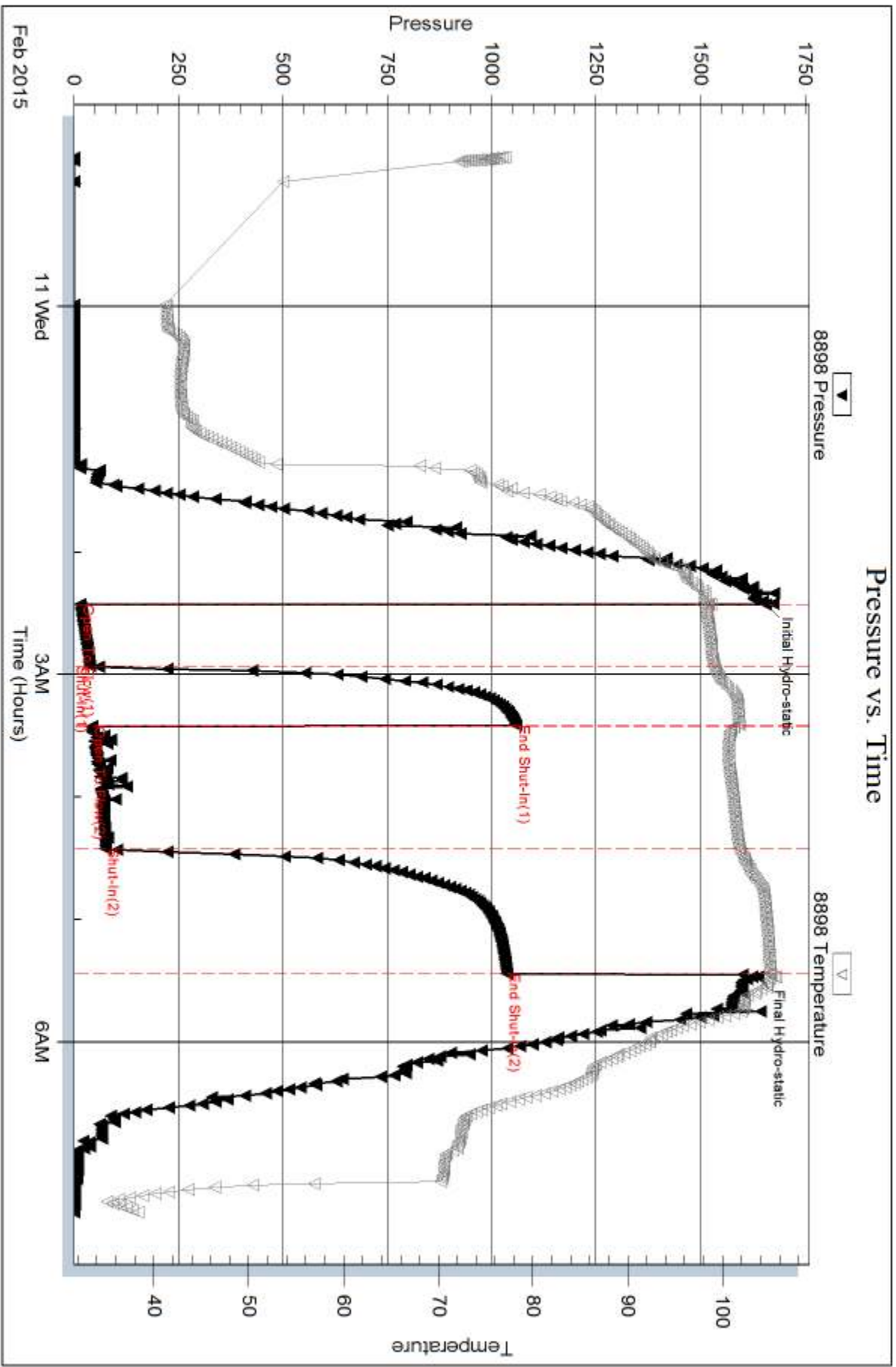
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .8 @ 26 Degrees = 24,000 Salinity



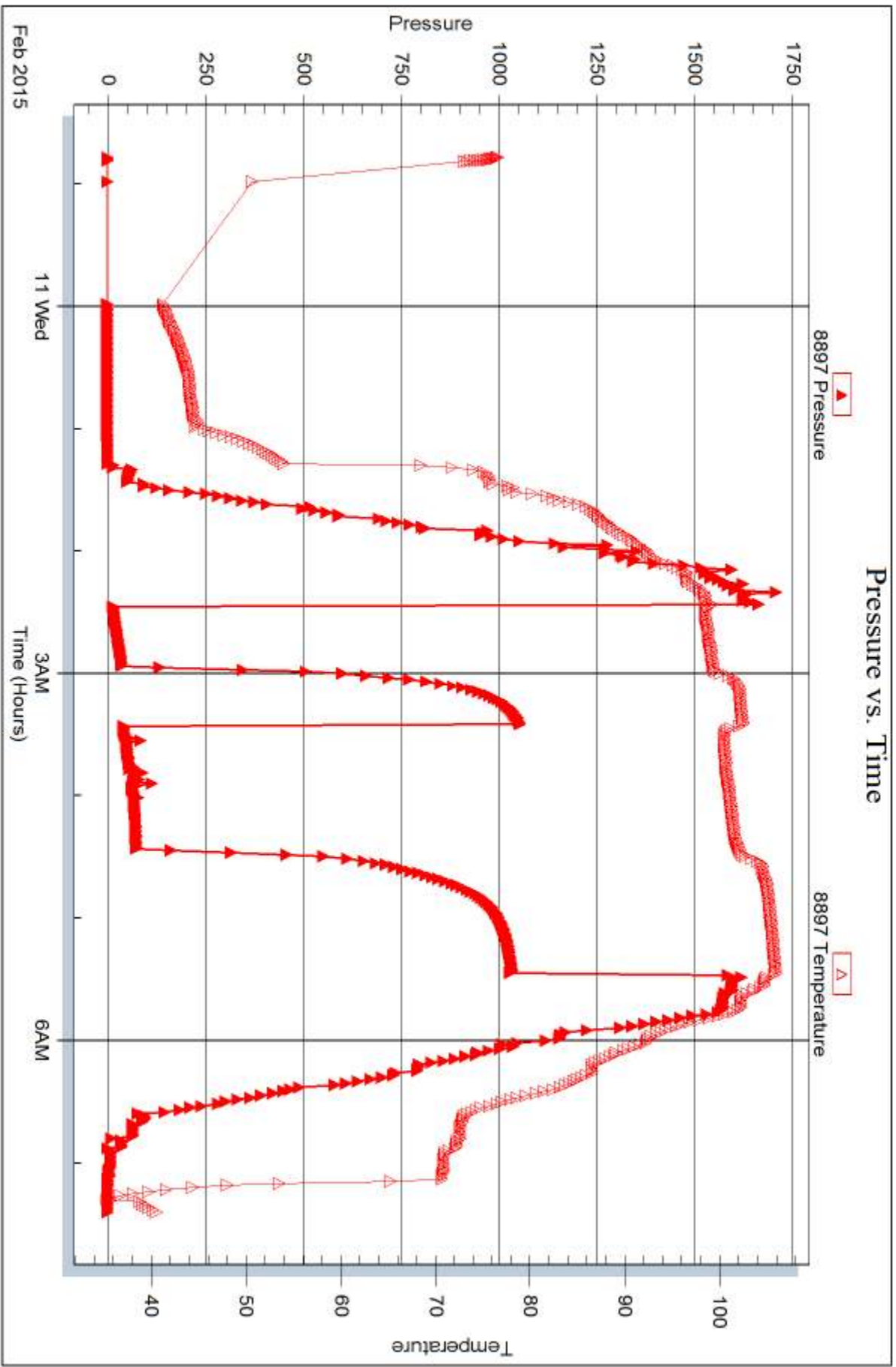
Serial #: 8897

Inside

Farmer, John O, Inc.

Van Loenen C#1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 62453

Printed: 2015.02.16 @ 10:09:24



DRILL STEM TEST REPORT

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

PO Box 352
Russell, KS 67665

ATTN: Austin Klaus

Van Loenen C #1

11-9s-22w Graham,KS

Start Date: 2015.02.11 @ 15:16:00

End Date: 2015.02.11 @ 22:43:09

Job Ticket #: 62454 DST #: 2

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

Printed: 2015.02.16 @ 10:08:57

Farmer, John O, Inc.
11-9s-22w Graham,KS
Van Loenen C #1
DST # 2
LKC "C-D"
2015.02.11



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Farmer, John O, Inc.

11-9s-22w Graham,KS

PO Box 352
Russell, KS 67665

Van Loenen C #1

Job Ticket: 62454

DST#: 2

ATTN: Austin Klaus

Test Start: 2015.02.11 @ 15:16:00

GENERAL INFORMATION:

Formation: **LKC "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:06:40

Time Test Ended: 22:43:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage

Unit No: 77

Interval: 3478.00 ft (KB) To 3520.00 ft (KB) (TVD)

Reference Elevations: 2211.00 ft (KB)

Total Depth: 3520.00 ft (KB) (TVD)

2206.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8898 Outside

Press@RunDepth: 119.65 psig @ 3479.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.02.11

End Date: 2015.02.11

Last Calib.: 2015.02.11

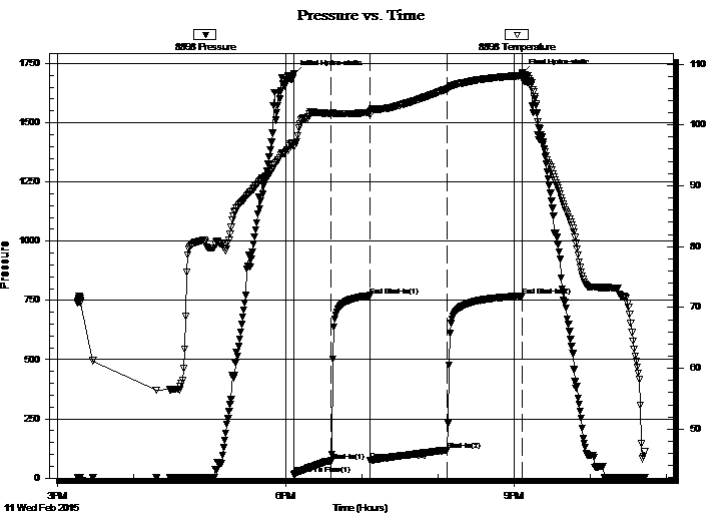
Start Time: 15:16:01

End Time: 22:43:10

Time On Btm: 2015.02.11 @ 18:06:20

Time Off Btm: 2015.02.11 @ 21:06:30

TEST COMMENT: 30-IF-Built to 6"
30-ISI-No Return
60-FF-Built to 8 1/2"
60-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1704.17	96.99	Initial Hydro-static
1	16.84	96.36	Open To Flow (1)
30	72.77	101.82	Shut-In(1)
60	770.81	102.07	End Shut-In(1)
61	76.04	101.74	Open To Flow (2)
121	119.65	105.90	Shut-In(2)
181	769.15	108.10	End Shut-In(2)
181	1708.02	108.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
229.00	MCW, 15%m, 85%w	2.11

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Farmer, John O, Inc.

11-9s-22w Graham,KS

PO Box 352
Russell, KS 67665

Van Loenen C #1

ATTN: Austin Klaus

Job Ticket: 62454

DST#: 2

Test Start: 2015.02.11 @ 15:16:00

GENERAL INFORMATION:

Formation: **LKC "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:06:40

Time Test Ended: 22:43:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage

Unit No: 77

Interval: 3478.00 ft (KB) To 3520.00 ft (KB) (TVD)

Reference Elevations: 2211.00 ft (KB)

Total Depth: 3520.00 ft (KB) (TVD)

2206.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8897

Inside

Press@RunDepth: psig @ 3479.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.02.11 End Date: 2015.02.11

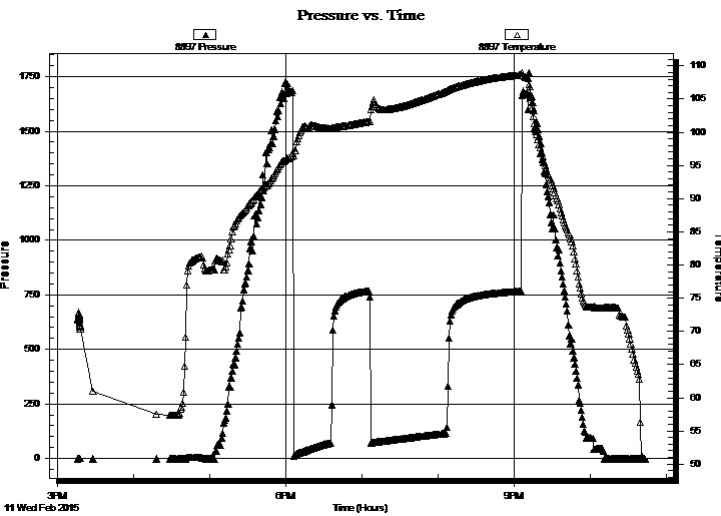
Last Calib.: 2015.02.11

Start Time: 15:16:01 End Time: 22:42:50

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-Built to 6"
30-ISI-No Return
60-FF-Built to 8 1/2"
60-FSI-No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
229.00	MCW, 15%m, 85%w	2.11

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Farmer, John O, Inc.

11-9s-22w Graham,KS

PO Box 352
Russell, KS 67665

Van Loenen C #1

Job Ticket: 62454

DST#: 2

ATTN: Austin Klaus

Test Start: 2015.02.11 @ 15:16:00

Tool Information

Drill Pipe:	Length: 3367.00 ft	Diameter: 3.80 inches	Volume: 47.23 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 47.83 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3478.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	62.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3463.00	
Hydraulic tool	5.00			3468.00	
Packer	5.00			3473.00	20.00 Bottom Of Top Packer
Packer	5.00			3478.00	
Stubb	1.00			3479.00	
Recorder	0.00	8897	Inside	3479.00	
Recorder	0.00	8898	Outside	3479.00	
Perforations	5.00			3484.00	
Change Over Sub	1.00			3485.00	
Drill Pipe	31.00			3516.00	
Change Over Sub	1.00			3517.00	
Bullnose	3.00			3520.00	42.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Farmer, John O, Inc.

11-9s-22w Graham,KS

PO Box 352
Russell, KS 67665

Van Loenen C #1

Job Ticket: 62454

DST#: 2

ATTN: Austin Klaus

Test Start: 2015.02.11 @ 15:16:00

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:

70000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
229.00	MCW, 15%m, 85%w	2.110

Total Length: 229.00 ft Total Volume: 2.110 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

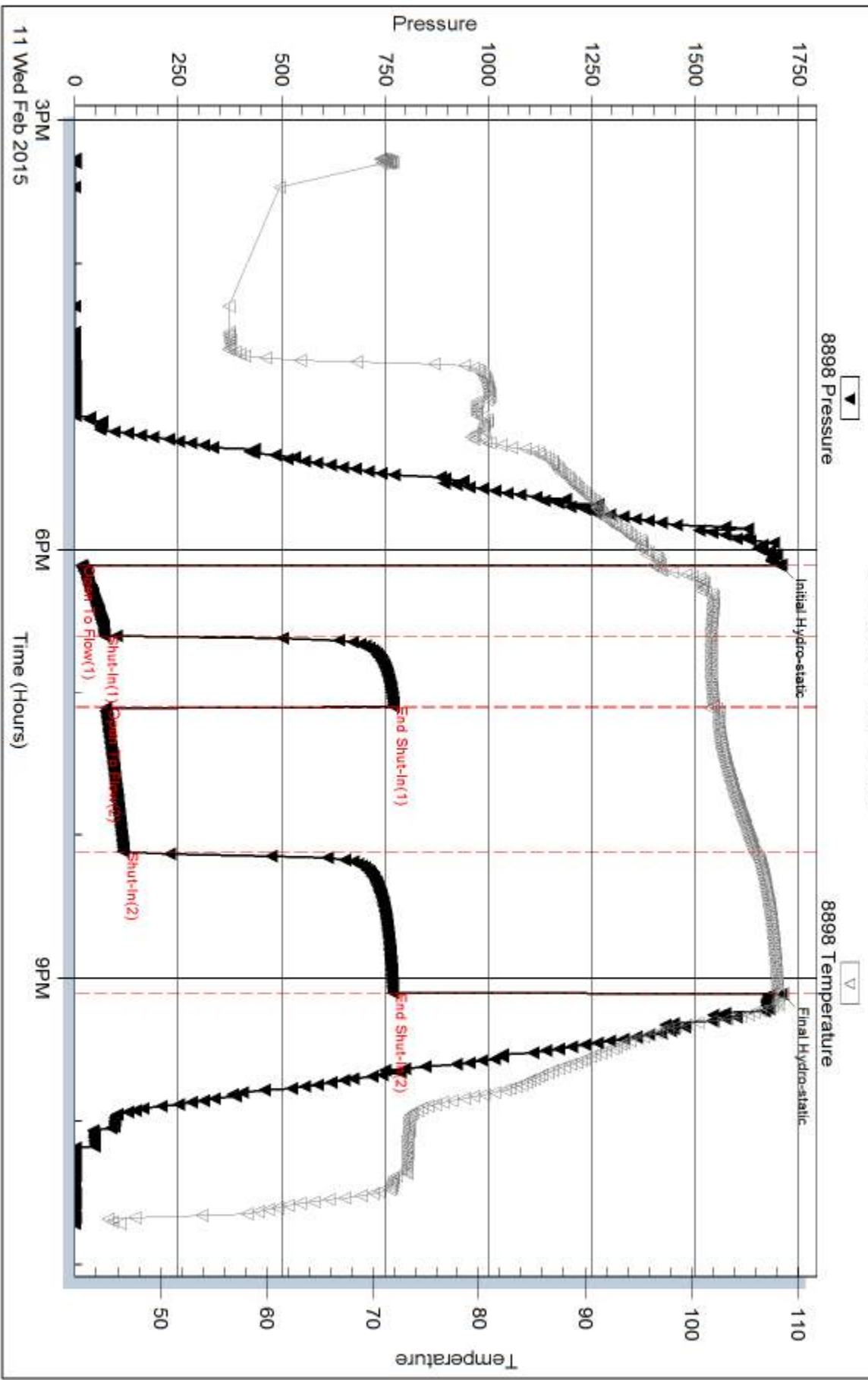
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .28 @ 26 Degrees = 70,000

Pressure vs. Time



11 Wed Feb 2015 3PM

6PM

9PM

Time (Hours)

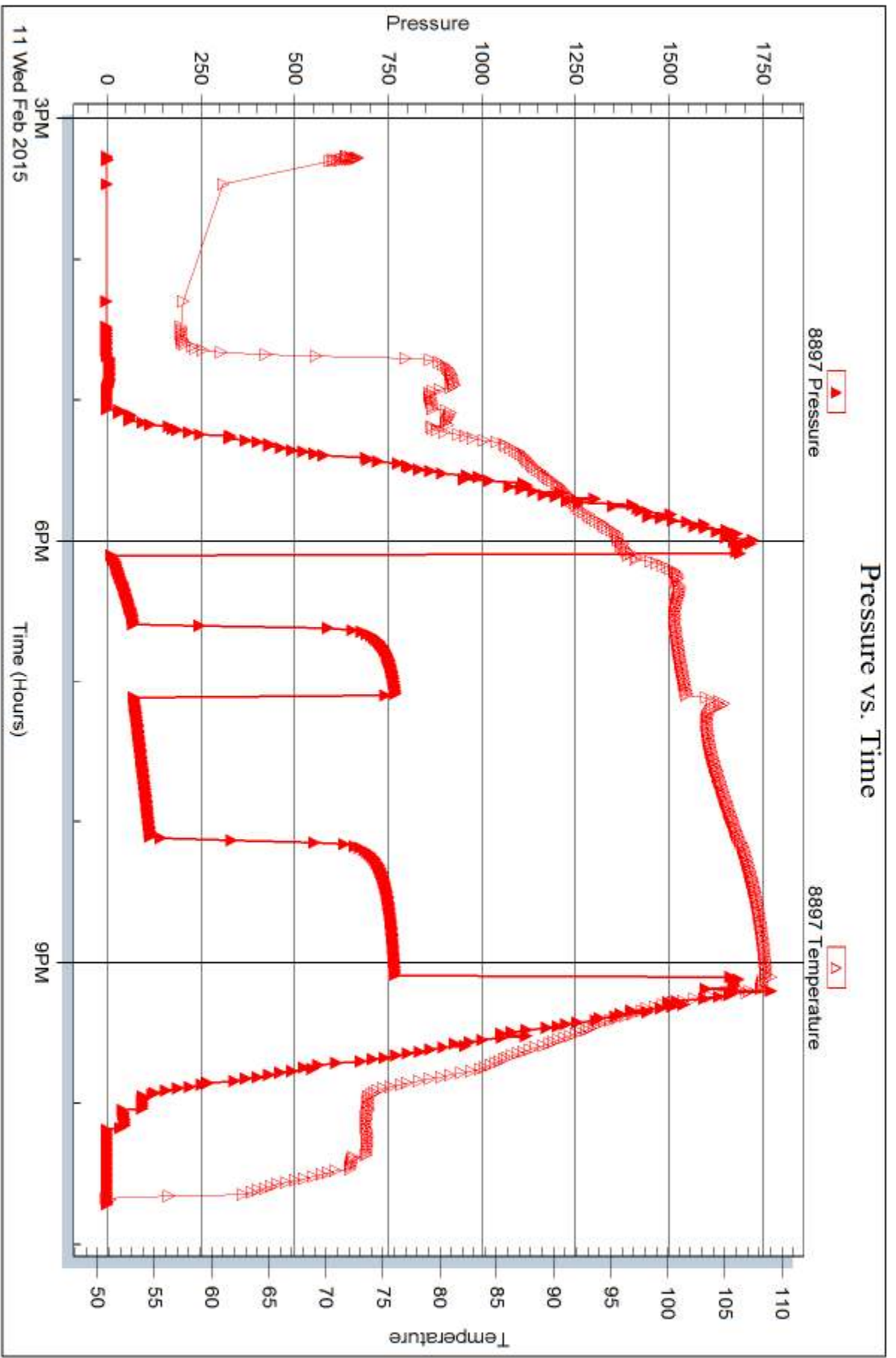
Serial #: 8897

Inside

Farmer, John O, Inc.

Van Loenen C#1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 62454

Printed: 2015.02.16 @ 10:08:58



DRILL STEM TEST REPORT

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

PO Box 352
Russell, KS 67665

ATTN: Austin Klaus

Van Loenen C #1

11-9s-22w Graham,KS

Start Date: 2015.02.12 @ 06:09:00

End Date: 2015.02.12 @ 13:03:39

Job Ticket #: 62455 DST #: 3

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

Printed: 2015.02.16 @ 10:01:16



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Farmer, John O, Inc.

11-9s-22w Graham,KS

PO Box 352
Russell, KS 67665

Van Loenen C #1

Job Ticket: 62455

DST#: 3

ATTN: Austin Klaus

Test Start: 2015.02.12 @ 06:09:00

GENERAL INFORMATION:

Formation: **LCK "E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:32:20

Time Test Ended: 13:03:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage

Unit No: 77

Interval: 3517.00 ft (KB) To 3548.00 ft (KB) (TVD)

Reference Elevations: 2211.00 ft (KB)

Total Depth: 3548.00 ft (KB) (TVD)

2206.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8898

Outside

Press@RunDepth: 178.47 psig @ 3518.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.02.12

End Date:

2015.02.12

Last Calib.:

2015.02.12

Start Time: 06:09:01

End Time:

13:03:40

Time On Btm:

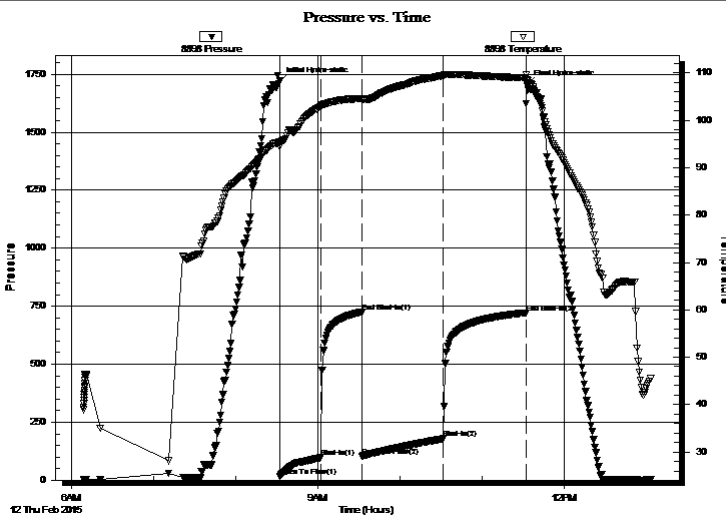
2015.02.12 @ 08:32:10

Time Off Btm:

2015.02.12 @ 11:33:09

TEST COMMENT: 30-IF-BOB in 23 mins.
30-ISI-No Return
60-FF-BOB in 31 mins.
60-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1719.48	95.50	Initial Hydro-static
1	16.77	94.47	Open To Flow (1)
31	97.74	102.99	Shut-In(1)
60	722.53	104.57	End Shut-In(1)
61	103.81	104.26	Open To Flow (2)
120	178.47	109.49	Shut-In(2)
181	721.68	108.99	End Shut-In(2)
181	1704.76	108.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
252.00	SMCW, 10% m, 90% w	2.43
93.00	MW, 40% m, 60% w	1.30

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Farmer, John O, Inc.

11-9s-22w Graham, KS

PO Box 352
Russell, KS 67665

Van Loenen C #1

Job Ticket: 62455 **DST#: 3**

ATTN: Austin Klaus

Test Start: 2015.02.12 @ 06:09:00

GENERAL INFORMATION:

Formation: **LCK "E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:32:20

Time Test Ended: 13:03:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage

Unit No: 77

Interval: 3517.00 ft (KB) To 3548.00 ft (KB) (TVD)

Reference Elevations: 2211.00 ft (KB)

Total Depth: 3548.00 ft (KB) (TVD)

2206.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8897 Inside

Press@RunDepth: psig @ 3518.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.02.12 End Date: 2015.02.12

Last Calib.: 2015.02.12

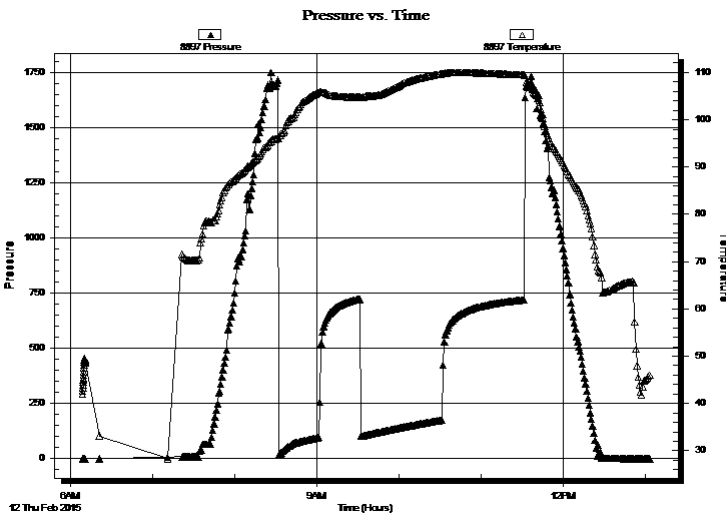
Start Time: 06:09:01 End Time: 13:03:20

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-BOB in 23 mins.
30-ISI-No Return
60-FF-BOB in 31 mins.
60-FSI-No Return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
252.00	SMCW, 10% <i>m</i> , 90% <i>w</i>	2.43
93.00	MW, 40% <i>m</i> , 60% <i>w</i>	1.30

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Farmer, John O, Inc.

11-9s-22w Graham,KS

PO Box 352
Russell, KS 67665

Van Loenen C #1

Job Ticket: 62455

DST#: 3

ATTN: Austin Klaus

Test Start: 2015.02.12 @ 06:09:00

Tool Information

Drill Pipe:	Length: 3398.00 ft	Diameter: 3.80 inches	Volume: 47.67 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	40000.00 lb
			<u>Total Volume: 48.27 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	33000.00 lb
Depth to Top Packer:	3517.00 ft			Final	34000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	31.00 ft				
Tool Length:	51.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3502.00	
Hydraulic tool	5.00			3507.00	
Packer	5.00			3512.00	20.00 Bottom Of Top Packer
Packer	5.00			3517.00	
Stubb	1.00			3518.00	
Recorder	0.00	8897	Inside	3518.00	
Recorder	0.00	8898	Outside	3518.00	
Perforations	27.00			3545.00	
Bullnose	3.00			3548.00	31.00 Bottom Packers & Anchor
Total Tool Length:	51.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Farmer, John O, Inc.

11-9s-22w Graham,KS

PO Box 352
Russell, KS 67665

Van Loenen C #1

Job Ticket: 62455

DST#: 3

ATTN: Austin Klaus

Test Start: 2015.02.12 @ 06:09:00

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:

90000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
252.00	SMCW, 10%m, 90%w	2.433
93.00	MW, 40%m, 60%w	1.305

Total Length: 345.00 ft Total Volume: 3.738 bbl

Num Fluid Samples: 0

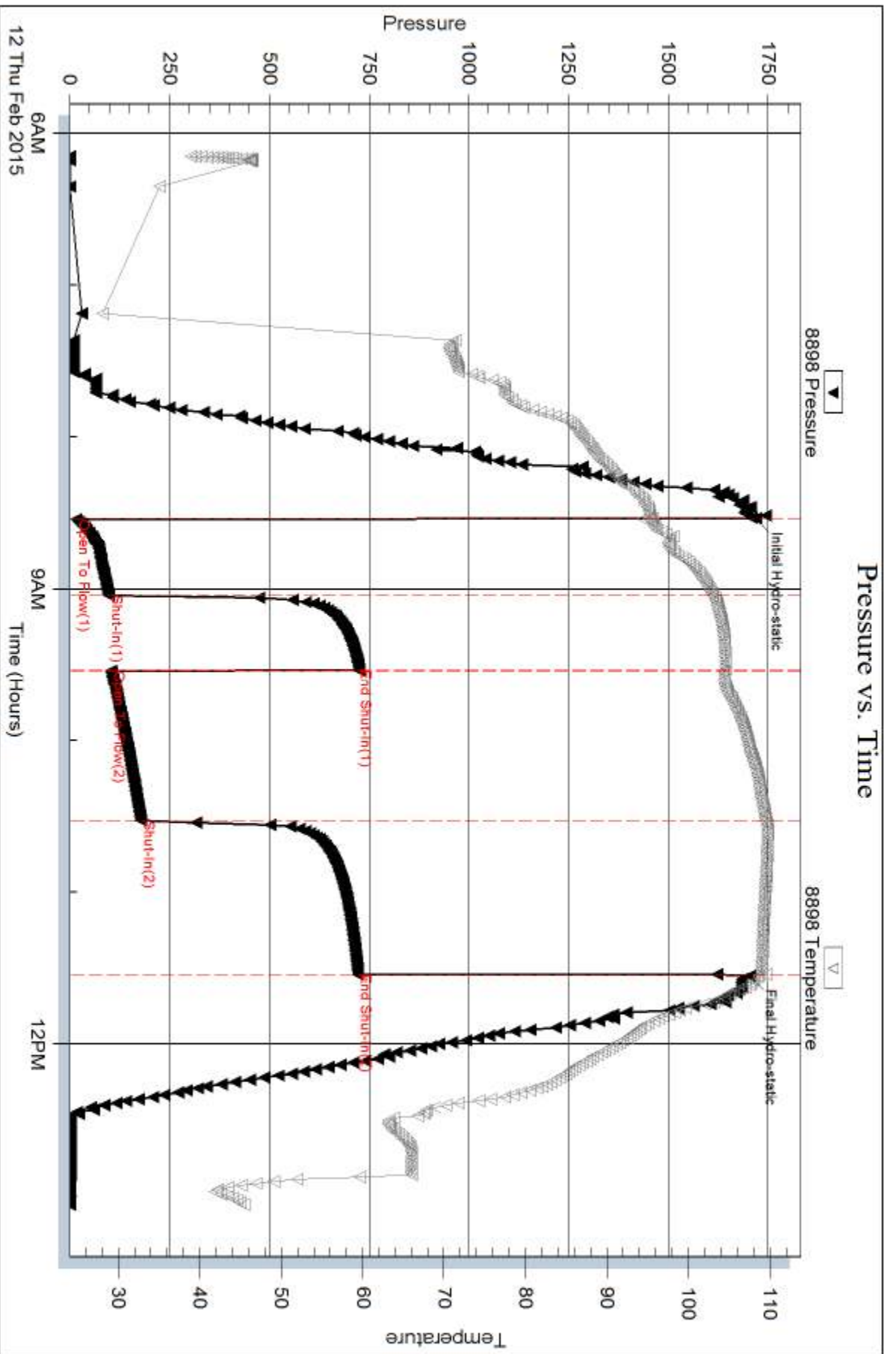
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .22 @ 34 Degrees = 90,000



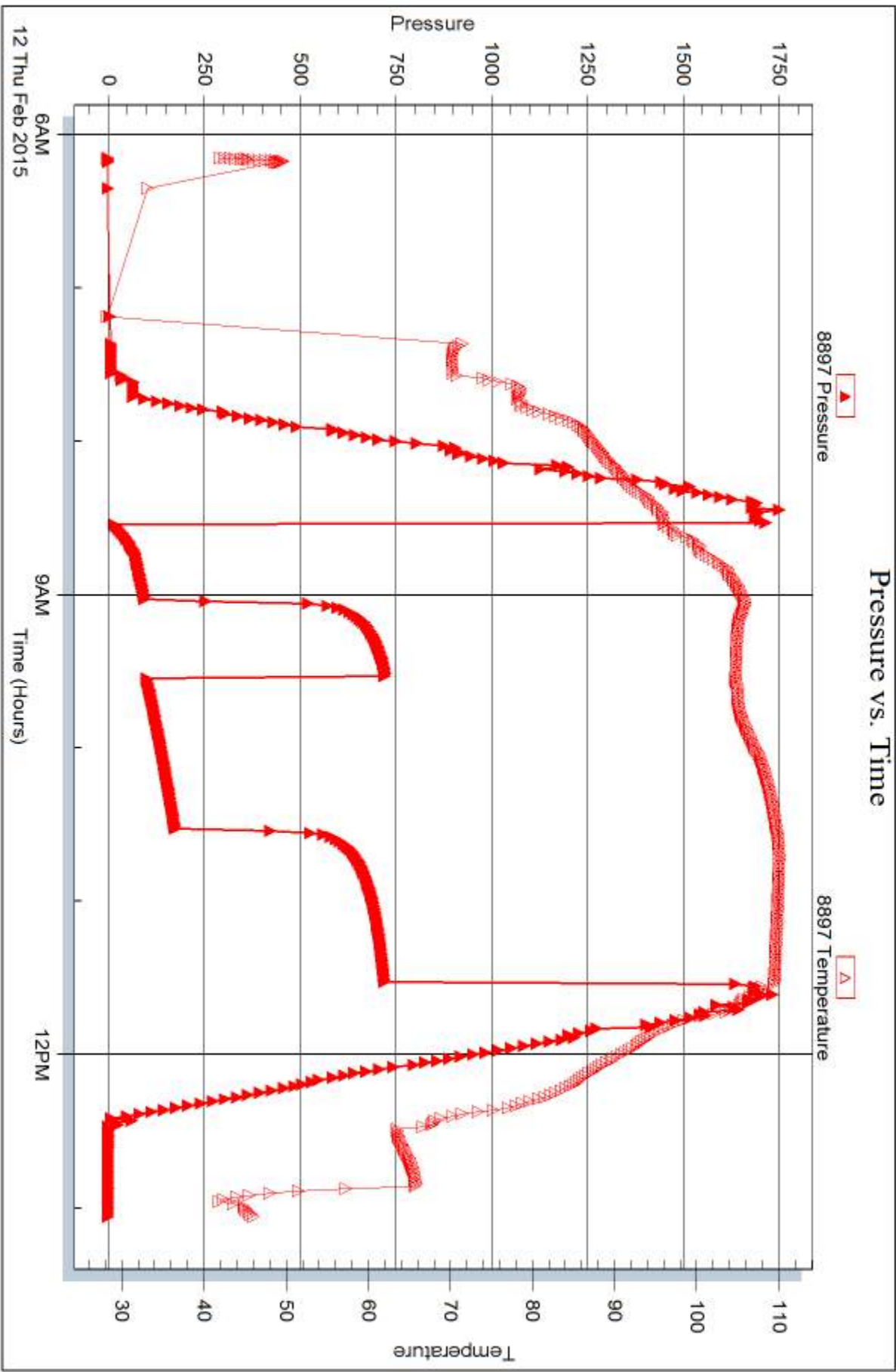
Serial #: 8897

Inside

Farmer, John O, Inc.

Van Loenen C#1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 62455

Printed: 2015.02.16 @ 10:01:18



DRILL STEM TEST REPORT

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

PO Box 352
Russell, KS 67665

ATTN: Austin Klaus

Van Loenen C #1

11-9s-22w Graham,KS

Start Date: 2015.02.13 @ 16:40:00

End Date: 2015.02.13 @ 23:08:00

Job Ticket #: 62456 DST #: 4

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

Printed: 2015.02.16 @ 10:00:35



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Farmer, John O, Inc.

11-9s-22w Graham,KS

PO Box 352
Russell, KS 67665

Van Loenen C #1

Job Ticket: 62456

DST#: 4

ATTN: Austin Klaus

Test Start: 2015.02.13 @ 16:40:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:50:40

Time Test Ended: 23:08:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage

Unit No: 77

Interval: 3765.00 ft (KB) To 3822.00 ft (KB) (TVD)

Reference Elevations: 2211.00 ft (KB)

Total Depth: 3880.00 ft (KB) (TVD)

2206.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8898 Outside

Press@RunDepth: 230.87 psig @ 3766.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.02.13

End Date:

2015.02.13

Last Calib.:

2015.02.13

Start Time: 16:40:01

End Time:

23:08:00

Time On Btm:

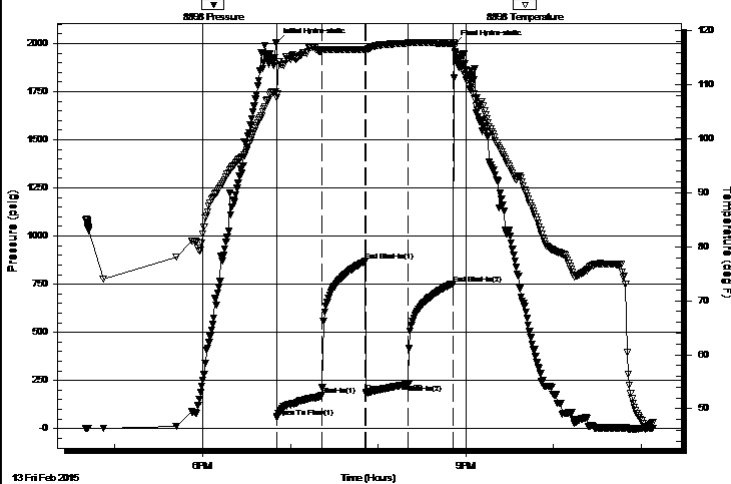
2015.02.13 @ 18:50:30

Time Off Btm:

2015.02.13 @ 20:52:10

TEST COMMENT: 30-IF-BOB in 10 mins.
30-ISI-No Return
30-FF-BOB in 18 mins.
30-FSI-No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2005.87	108.76	Initial Hydro-static
1	58.28	107.57	Open To Flow (1)
32	172.26	116.34	Shut-In(1)
61	868.63	116.57	End Shut-In(1)
62	188.71	116.38	Open To Flow (2)
91	230.87	117.72	Shut-In(2)
121	749.90	117.72	End Shut-In(2)
122	1995.13	117.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	V SOMCW, 2%o, 30% m, 68% w	0.67
126.00	V SOGWCM, 2%o, 3%g, 5%w, 90% m	1.77
176.00	V SOWCM, 2%o, 18%w, 80% m	2.47
5.00	O, 100%o	0.07

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Farmer, John O, Inc.

11-9s-22w Graham,KS

PO Box 352
Russell, KS 67665

Van Loenen C #1

ATTN: Austin Klaus

Job Ticket: 62456

DST#: 4

Test Start: 2015.02.13 @ 16:40:00

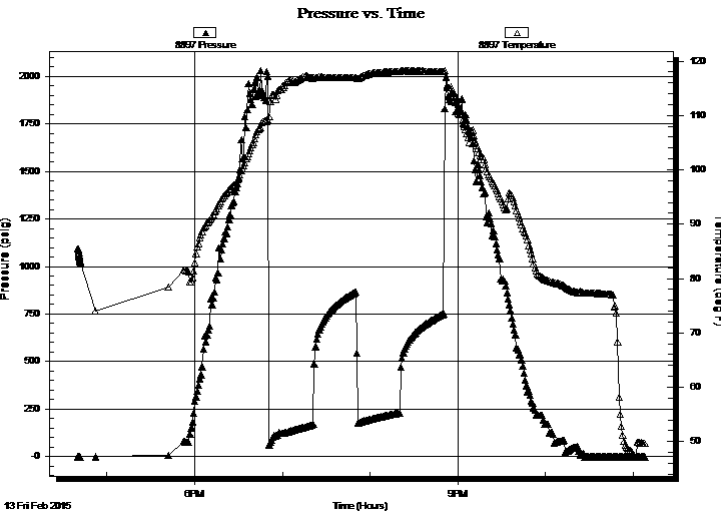
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 18:50:40
 Tester: Phillip Gage
 Time Test Ended: 23:08:00
 Unit No: 77
Interval: 3765.00 ft (KB) To 3822.00 ft (KB) (TVD)
 Reference Elevations: 2211.00 ft (KB)
 Total Depth: 3880.00 ft (KB) (TVD)
 2206.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 8897 Inside

Press@RunDepth: psig @ 3766.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.02.13 End Date: 2015.02.13 Last Calib.: 2015.02.13
 Start Time: 16:40:01 End Time: 23:07:40 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF-BOB in 10 mins.
 30-ISI-No Return
 30-FF-BOB in 18 mins.
 30-FSI-No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
126.00	V SOMCW, 2%o, 30%m, 68%w	0.67
126.00	V SOGWCM, 2%o, 3%g, 5%w, 90%m	1.77
176.00	V SOWCM, 2%o, 18%w, 80%m	2.47
5.00	O, 100%o	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Farmer, John O, Inc.
PO Box 352
Russell, KS 67665
ATTN: Austin Klaus

11-9s-22w Graham,KS

Van Loenen C #1

Job Ticket: 62456

DST#: 4

Test Start: 2015.02.13 @ 16:40:00

GENERAL INFORMATION:

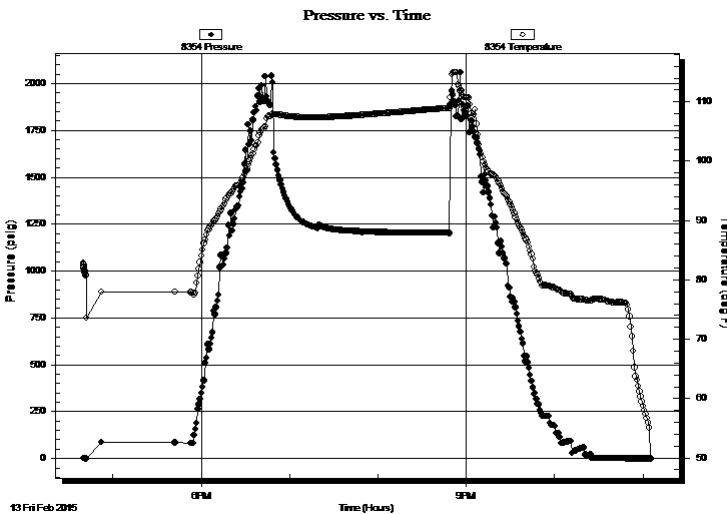
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 18:50:40
 Tester: Phillip Gage
 Time Test Ended: 23:08:00
 Unit No: 77
 Interval: **3765.00 ft (KB) To 3822.00 ft (KB) (TVD)**
 Reference Elevations: 2211.00 ft (KB)
 Total Depth: 3880.00 ft (KB) (TVD)
 2206.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 8354 Below (Straddle)

Press@RunDepth: psig @ 3844.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.02.13 End Date: 2015.02.13 Last Calib.: 2015.02.13
 Start Time: 16:40:01 End Time: 23:05:50 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF-BOB in 10 mins.
 30-ISI-No Return
 30-FF-BOB in 18 mins.
 30-FSI-No Return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
126.00	V SOMCW, 2%o, 30%m, 68%w	0.67
126.00	V SOGWCM, 2%o, 3%g, 5%w, 90%m	1.77
176.00	V SOWCM, 2%o, 18%w, 80%m	2.47
5.00	O, 100%o	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Farmer, John O, Inc.

11-9s-22w Graham,KS

PO Box 352
Russell, KS 67665

Van Loenen C #1

Job Ticket: 62456

DST#: 4

ATTN: Austin Klaus

Test Start: 2015.02.13 @ 16:40:00

Tool Information

Drill Pipe:	Length: 3643.00 ft	Diameter: 3.80 inches	Volume: 51.10 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 51.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3765.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	115.00 ft			
Tool Length:	135.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3750.00	
Hydraulic tool	5.00			3755.00	
Packer	5.00			3760.00	20.00 Bottom Of Top Packer
Packer	5.00			3765.00	
Stubb	1.00			3766.00	
Recorder	0.00	8897	Inside	3766.00	
Recorder	0.00	8898	Outside	3766.00	
Perforations	13.00			3779.00	
Bullnose	1.00			3780.00	
Drill Pipe	31.00			3811.00	
Change Over Sub	1.00			3812.00	
Perforations	5.00			3817.00	
Blank Off Sub	1.00			3818.00	115.00 Tool Interval
Packer	5.00			3823.00	
Stubb	1.00			3824.00	
Perforations	20.00			3844.00	
Recorder	0.00	8354	Below	3844.00	
Change Over Sub	1.00			3845.00	
Drill Pipe	31.00			3876.00	
Change Over Sub	1.00			3877.00	
Bullnose	3.00			3880.00	1000134.00 Bottom Packers & Anchor

Total Tool Length: 135.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Farmer, John O, Inc.

11-9s-22w Graham,KS

PO Box 352
Russell, KS 67665

Van Loenen C #1

Job Ticket: 62456

DST#: 4

ATTN: Austin Klaus

Test Start: 2015.02.13 @ 16:40:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 65.00 sec/qt
Water Loss: 7.19 in³
Resistivity: ohm.m
Salinity: 1700.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 17 deg API
Water Salinity: 29000 ppm

Recovery Information

Recovery Table

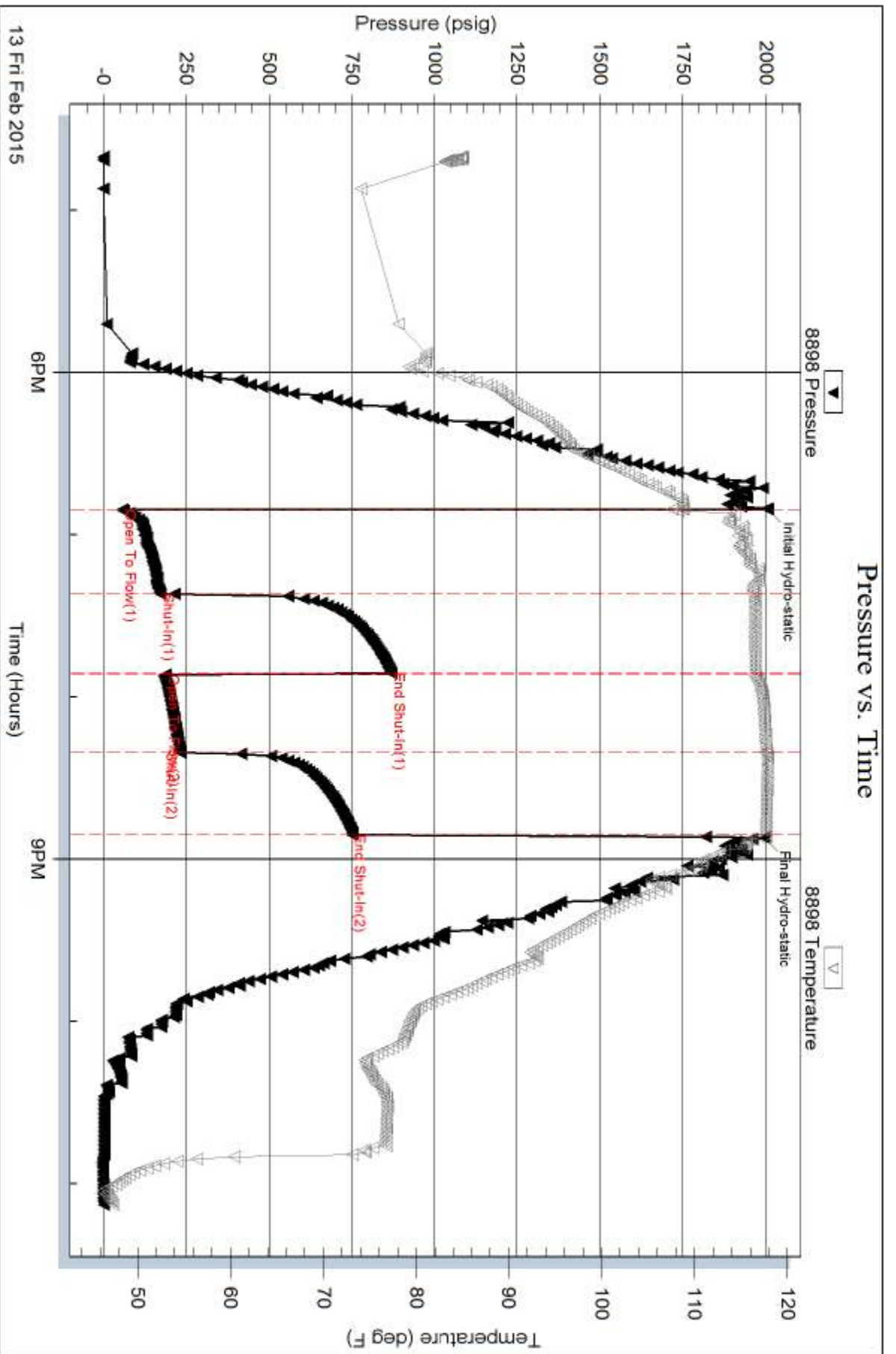
Length ft	Description	Volume bbl
126.00	VSOMCW, 2%o, 30%m, 68%w	0.665
126.00	VSOGWCM, 2%o, 3%g, 5%w, 90%m	1.767
176.00	VSOWCM, 2%o, 18%w, 80%m	2.469
5.00	O, 100%o	0.070

Total Length: 433.00 ft Total Volume: 4.971 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: .5 @ 35 Degrees = 29,000 Salinity



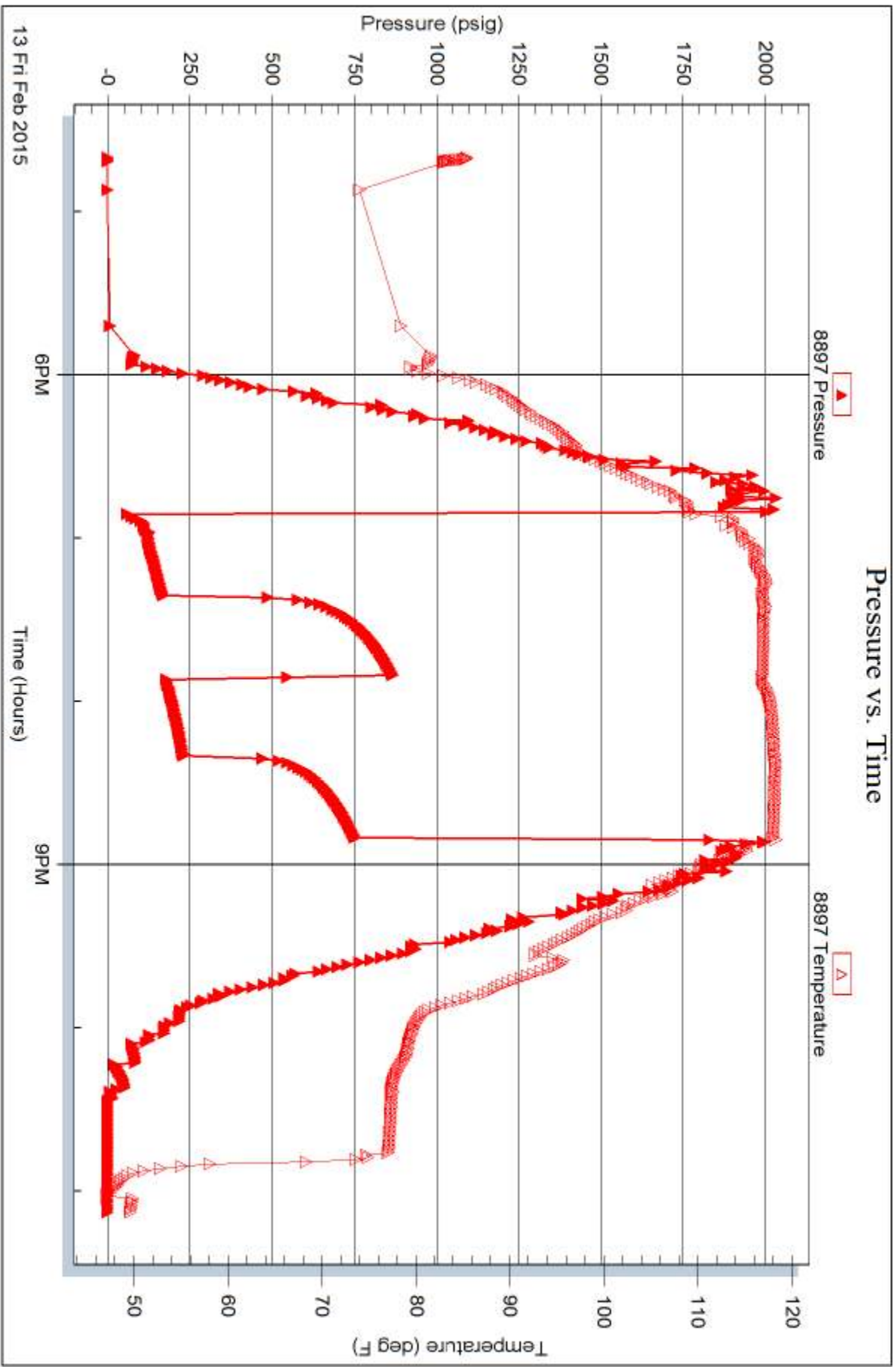
Serial #: 8897

Inside

Farmer, John O, Inc.

Van Loenen C#1

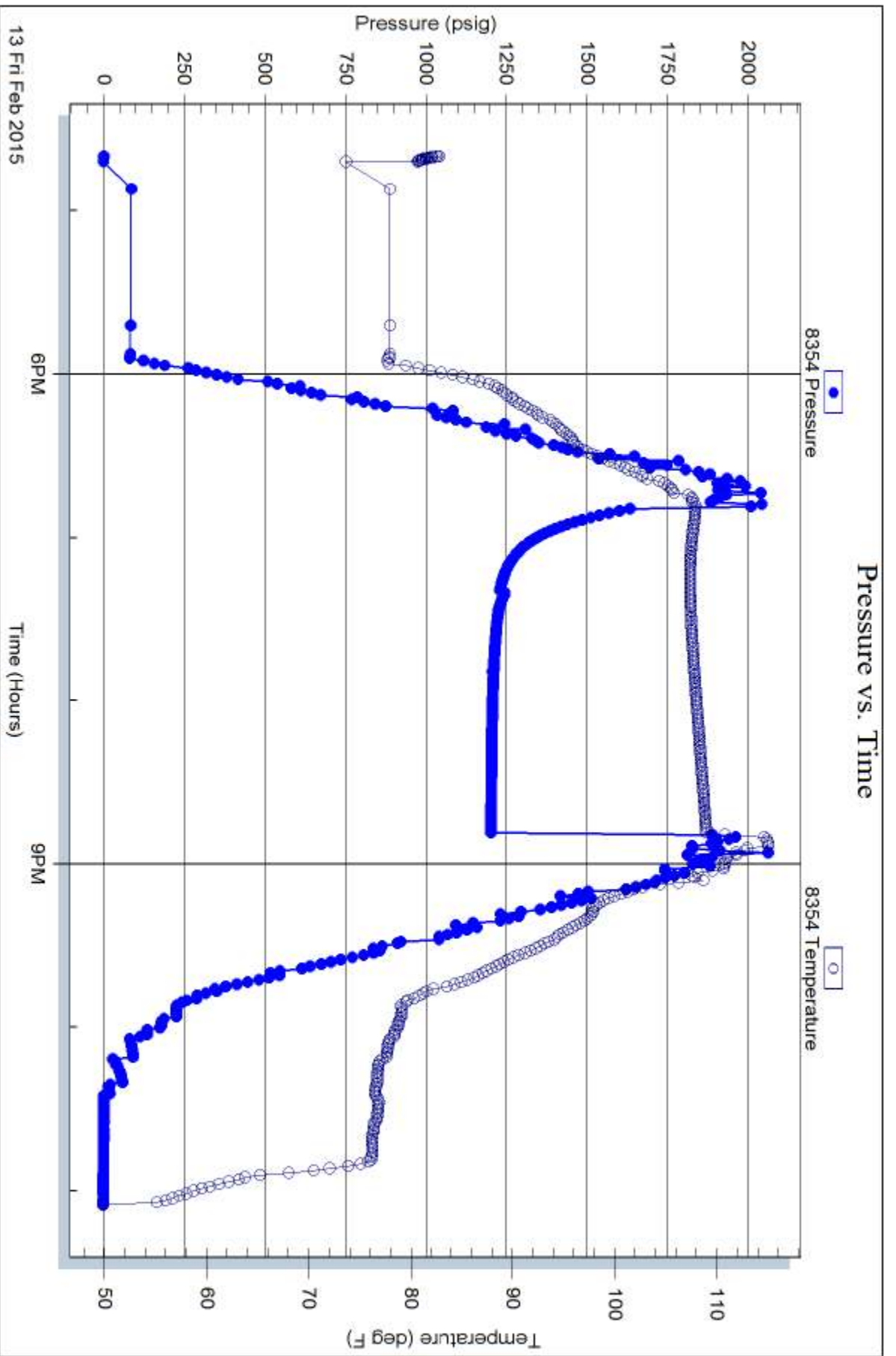
DST Test Number: 4

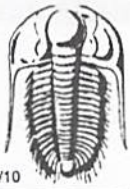


Triobite Testing, Inc

Ref. No: 62456

Printed: 2015.02.16 @ 10:00:36





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62453

Well Name & No. Van Loenen C #1 Test No. 1 Date 2-10-15
 Company Farmer, John O, Inc Elevation 2211 KB 7206 GL
 Address 370 W Wichita AVE P.O. Box 352 Russell, KS 67665
 Co. Rep / Geo. Austin Klaus Rig WWG
 Location: Sec. 11 Twp. 9s Rge. 22w Co. Graham State KS

Interval Tested 3404-3462 Zone Tested Toronto - LHC "A"
 Anchor Length 581 Drill Pipe Run 3273 Mud Wt. 8.8
 Top Packer Depth 3399 Drill Collars Run 121 Vis 64
 Bottom Packer Depth 3404 Wt. Pipe Run 0 WL 6.0
 Total Depth 3462 Chlorides 900 ppm System LCM 2#
 Blow Description IF Buite to 3"
ISE No Return
FF Buite to 2"
FSE No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>130'</u>	<u>SWCM, with oil spots</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 130' BHT 105 Gravity — API RW 18 @ 26 °F Chlorides 24000 ppm
 (A) Initial Hydrostatic 1,656 Test 1050 T-On Location 22:36
 (B) First Initial Flow 15 Jars _____ T-Started 22:47
 (C) First Final Flow 38 Safety Joint _____ T-Open 02:27
 (D) Initial Shut-In 1058 Circ Sub _____ T-Pulled 05:27
 (E) Second Initial Flow 43 Hourly Standby _____ T-Out 07:25
 (F) Second Final Flow 75 Mileage 120 RT 113 Comments _____
 (G) Final Shut-In 1,037 Sampler _____
 (H) Final Hydrostatic 1,637 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1163
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1163
 MP/DST Disc't _____

Approved By _____ Our Representative Phillip Key *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. 62454

Well Name & No. Van Loenen C #1 Test No. 2 Date 2-11-15
 Company Farmer, John O, Inc Elevation 2211 KB 2206 GL
 Address 370 W Wichita AVE P.O. Box 352 Russell, KS 67665
 Co. Rep / Geo. Austin Klaus Rig WWG
 Location: Sec. 11 Twp. 9S Rge. 22W Co. Graham State KS

Interval Tested 3478 - 3520 Zone Tested LKC "C-D"
 Anchor Length 42' Drill Pipe Run 3367 Mud Wt. 8.9
 Top Packer Depth 3473 Drill Collars Run 121 Vis 61
 Bottom Packer Depth 3478 Wt. Pipe Run 0 WL 618
 Total Depth 3520 Chlorides 1,100 ppm System LCM 2#
 Blow Description FF- Buite to 6"
ISI- No Return
FF- Buite to 8 1/2"
FSI- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>229'</u>	<u>MCW</u>			<u>85</u> 15	<u>15</u> 85
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 229' BHT 108 Gravity — API RW 28 @ 26 °F Chlorides 70,000 ppm
 (A) Initial Hydrostatic 1,704 Test 1050 T-On Location 15:15
 (B) First Initial Flow 16 Jars _____ T-Started 15:16
 (C) First Final Flow 72 Safety Joint _____ T-Open 18:06
 (D) Initial Shut-In 770 Circ Sub _____ T-Pulled 21:06
 (E) Second Initial Flow 76 Hourly Standby _____ T-Out 22:43
 (F) Second Final Flow 119 Mileage 120 RT 113 Comments _____
 (G) Final Shut-In 769 Sampler _____
 (H) Final Hydrostatic 1,708 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Initial Open 30
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 60
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1163
 MP/DST Disc't _____
 Sub Total 1163

Approved By _____ Our Representative Phil Legg 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. 62455

Well Name & No. Van Loenen C#1 Test No. 3 Date 2-12-15
 Company Farmer, John O, Inc Elevation 2211 KB 2206 GL
 Address 370 W Wichita AVE P.O. Box 352 Russell, KS 67665
 Co. Rep / Geo. Austin Klaus Rig WW6
 Location: Sec. 11 Twp. 9s Rge. 22w Co. Graham State KS

Interval Tested 3517-3548 Zone Tested LKL "E-F"
 Anchor Length 31' Drill Pipe Run 3398 Mud Wt. 9.1
 Top Packer Depth 3512 Drill Collars Run 121 Vis 54
 Bottom Packer Depth 3517 Wt. Pipe Run 0 WL 7.2
 Total Depth 3548 Chlorides 1,500 ppm System LCM 2#
 Blow Description IF BOB in 23 mths
ESI No Return
FF - BOB in 31 mths
ESI No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>252'</u>	<u>SANCW</u>		<u>90</u>	<u>10</u>	
<u>93'</u>	<u>MW</u>		<u>60</u>	<u>40</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 345' BHT 108 Gravity — API RW 1.22 @ 34 °F Chlorides 90,000 ppm

(A) Initial Hydrostatic 1,719 Test 1050 T-On Location 06:08
 (B) First Initial Flow 16 Jars — T-Started 06:09
 (C) First Final Flow 97 Safety Joint — T-Open 08:33
 (D) Initial Shut-In 722 Circ Sub — T-Pulled 11:33
 (E) Second Initial Flow 103 Hourly Standby — T-Out 13:04
 (F) Second Final Flow 178 Mileage 120 RT 113 Comments —
 (G) Final Shut-In 721 Sampler —
 (H) Final Hydrostatic 1,704 Straddle — Ruined Shale Packer —
 Shale Packer — Ruined Packer —
 Extra Packer — Extra Copies —
 Initial Open 30 Extra Recorder — Sub Total 0
 Initial Shut-In 30 Day Standby — Total 1163
 Final Flow 60 Accessibility — MP/DST Disc't —
 Final Shut-In 60 Sub Total 1163

Approved By _____ Our Representative Mark Ross 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. 62456

Well Name & No. Van Loeren C #1 Test No. 4 Date 2-13-15
 Company Farmer, John O, Inc Elevation 2211 KB 2206 GL
 Address 370 W Wichita AVE P.O. Box 352 Russell, KS 67665
 Co. Rep / Geo. Austin Klaus Rig WW6
 Location: Sec. 11 Twp. 9s Rge. 22w Co. Graham State KS

Interval Tested 3065-3822 Zone Tested Arbuckle
 Anchor Length 57' 58" tail Drill Pipe Run 3643 Mud Wt. 9.5
 Top Packer Depth 3817 Drill Collars Run 121 Vis 65
 Bottom Packer Depth 3822 Wt. Pipe Run 0 WL 7.2
 Total Depth 3880 Chlorides 1700 ppm System LCM 2#
 Blow Description FF BOB in 10 mins
FSI No Return
FF BOB in 18 mins.
FSI No Return

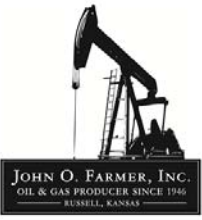
Rec	Feet of	%gas	%oil	%water	%mud
126'	VSO MCW		2	68	30
126'	VSO WCM	3	2	5	90
176'	VSO WCM		2	18	80
51	0		100		

Rec Total 432' BHT 118 Gravity 17 API RW 15 @ 35 °F Chlorides 29,000 ppm

(A) Initial Hydrostatic 2,005 Test 1050 T-On Location 15:25
 (B) First Initial Flow 58 Jars _____ T-Started 16:40
 (C) First Final Flow 172 Safety Joint _____ T-Open 18:51
 (D) Initial Shut-In 868 Circ Sub _____ T-Pulled 30:51
 (E) Second Initial Flow 188 Hourly Standby _____ T-Out 23:08
 (F) Second Final Flow 230 Mileage 120 RT 113 Comments _____
 (G) Final Shut-In 749 Sampler _____
 (H) Final Hydrostatic 1,995 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1763
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1763

Approved By _____ Our Representative Phillip Poye 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.



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: Van Loenen C #1
Location: Graham County
License Number: API #15-065-24,097-0000
Spud Date: 2/7/15
Surface Coordinates: Section 11, Township 9 South, Range 22 West
1,115' FNL & 950' FWL
Bottom Hole Coordinates: Vertical well with minimal deviation, same as above
Ground Elevation (ft): 2,206' **K.B. Elevation (ft):** 2,211'
Logged Interval (ft): 3,100' **To:** RTD **Total Depth (ft):** 3,880'
Formation: LKC, Arbuckle
Type of Drilling Fluid: Chemical (Mud Co.)

Region: Kansas
Drilling Completed: 2/13/15

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 Van Loenen C #1 well was drilled by WW Rig #6 (Tool Pusher: Mark Biggie).

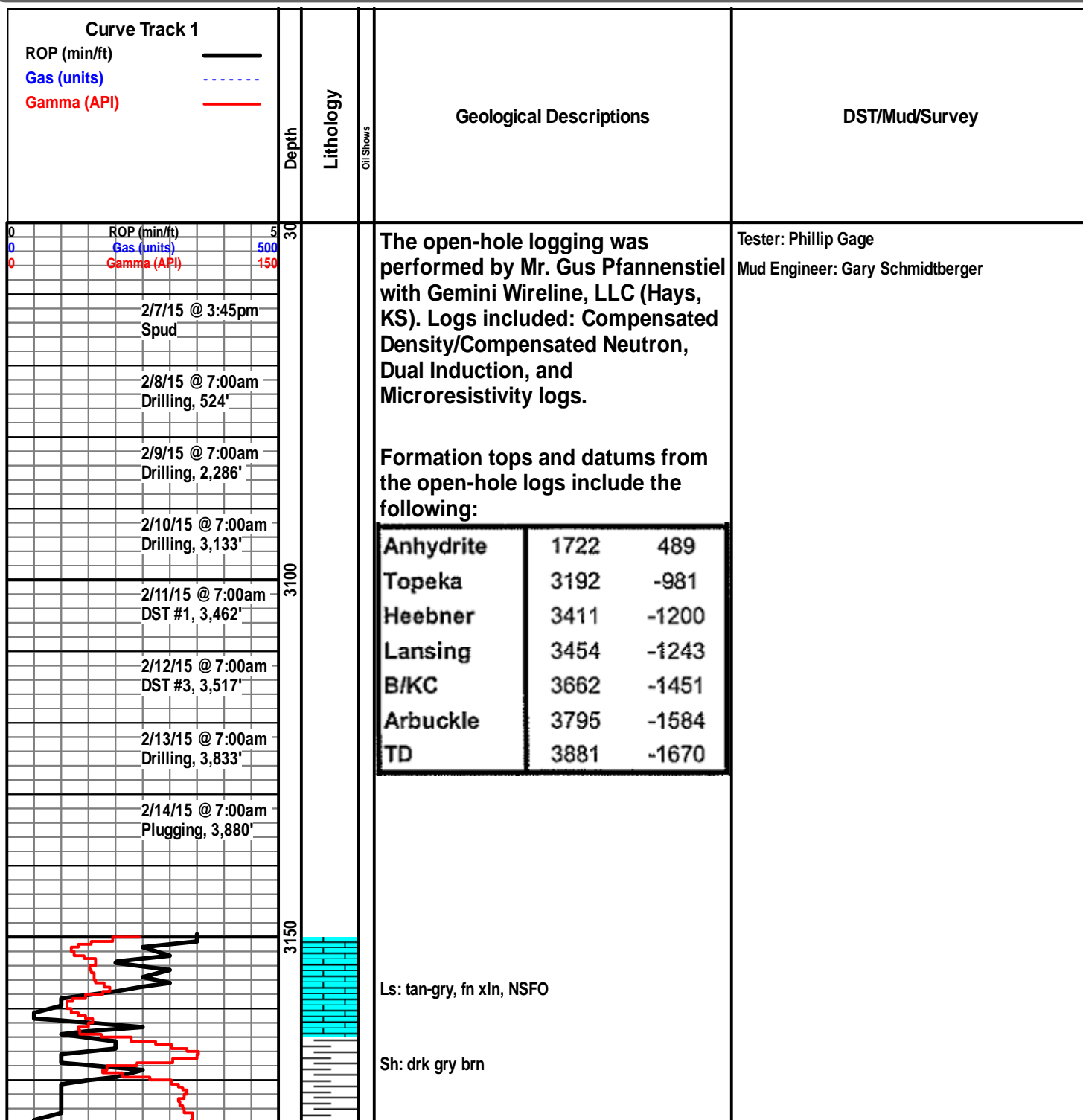
The location for the Van Loenen C #1 well was found via 3-D seismic survey. Geologic samples were collected and evaluated from 3,150'-3,880'. Structurally, the Van Loenen C #1 ran high to nearby dry holes and 4' low to the Van Loenen Unit #1, 1,350' to the southwest. Three bottom-hole tests were conducted in the Toronto-LKC A, C-D, & E-F, all yielding negative results. Upon completion of the logging operation a straddle test was conducted over the top 27' of Arbuckle, yielding negative results. Fluid recovery and inadequate pressures indicate that the Van Loenen Unit #1 has effectively drained this feature. Upon completion of the drill stem test, the decision was made to plug and abandon the Van Loenen C #1 well on 2/14/15.

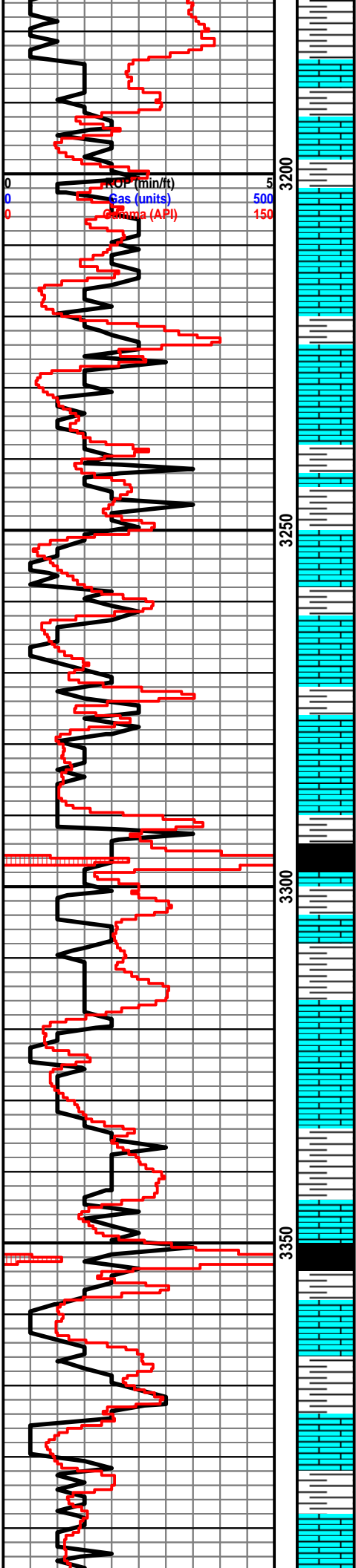
ROCK TYPES

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

OTHER SYMBOLS

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





Sh: gry-drk gry

Topeka 3192' (-981)

Ls: off wh-tan-gry, fn xln, scat chalky, NSFO

Ls: tan-gry, fn xln, mottled, scat chert-off wh, NSFO

Sh: drk gry-brn, soft

Ls: tan-lt gry, fn-md xln, mostly DNS, NSFO, chalky

Sh: drk brn-gry

Ls: tan-crm, fn xln, scat fossil, NSFO

Ls: ala

Sh: lt gry-drk gry

Ls: off wh-gry, fn xln, fossil, scat int fossil porosity, NSFO, scat chert-off wh

Sh: drk gry-blk

Sh: ala

Ls: tan-crm, fn xln, scat chalky, NSFO

Sh: lt gry-drk gry

Sh: blk, carb, fissile

Ls: tan-brn, fn xln, fossil, scat fossil porosity, NSFO

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

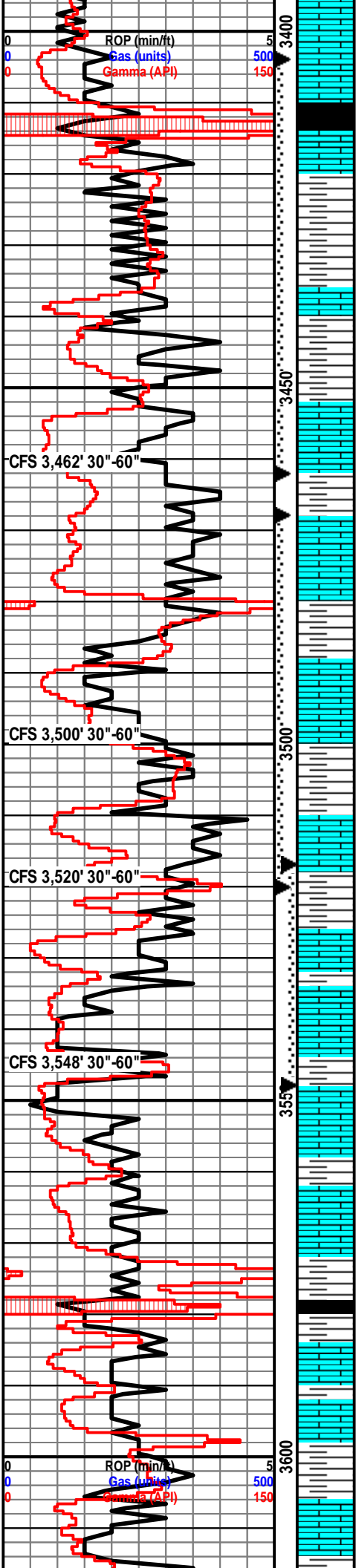
Sh: gry

DST #1 3,404'-3,462' (Toronto-LKC A)

30"-30"-60"-60"

IF: weak blow built to 3"

FF: weak blow built to 2"



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

Heebner 3411' (-1200)

Sh: blk, carb, fissile

Ls: tan-lt gry, fn xln, DNS

Sh: lt gry-drk gry

Toronto 3436' (-1225)

Ls: off wh-tan, fn xln, ool, scat fossil, fair oom porosity, NSFO

Sh: drk gry

Lansing 3452' (-1241)

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

Sh: drk gry-brn, scat sltst

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

Sh: drk gry

Ls: off wh-tan, fn xln, poor-fair int xln porosity, fair oil st, SSFO, sl-fair odor, scat chert-off wh

Sh: drk gry-brn-grn

Ls: off wh-lt brn, fn xln, scat fossil, vry poor int xln porosity, NSFO, chalky

Sh: drk gry-brn

Ls: tan-lt gry, fn-md xln, poor int xln porosity, NSFO, chert-off wh-gry

Ls: off wh-tan, fn xln, fair int xln & vuggy porosity, sl-fair oil st, VSSFO, sl odor, vry chalky

CFS 3,548' 30"-60"

Ls: off wh-tan, fn xln, ool, fair oom porosity, NSFO, scat chalky

Ls: tan-lt gry, fn xln, poor int xln porosity, NSFO, scat chert-off wh-gry, chalky

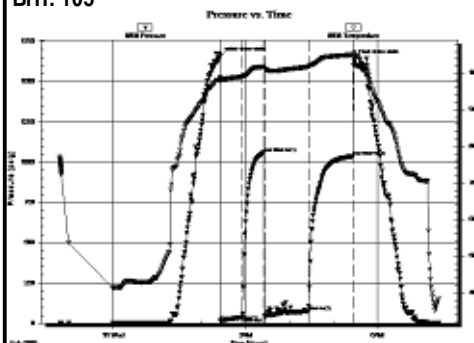
Sh: blk, carb, fissile

Ls: tan-brn, fn xln, scat int xln porosity, scat chert-off wh-gry, chalky, NSFO

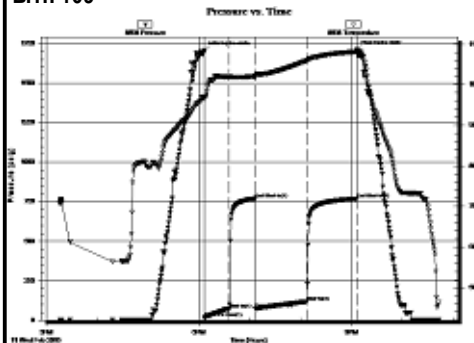
Sh: drk gry-brn

Ls: off wh-tan, fn xln, poor vuggy porosity, scat-fair oil st, VSSFO, sl odor, scat pyrite

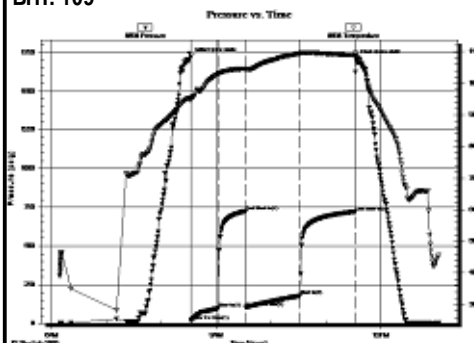
FF: weak blow built to 2'
 Rec: 130' Water Cut Mud (10% W, 90% M)
 FP: 15-38, 43-76#
 SIP: 1,059-1,037#
 HP: 1,656-1,637#
 BHT: 105

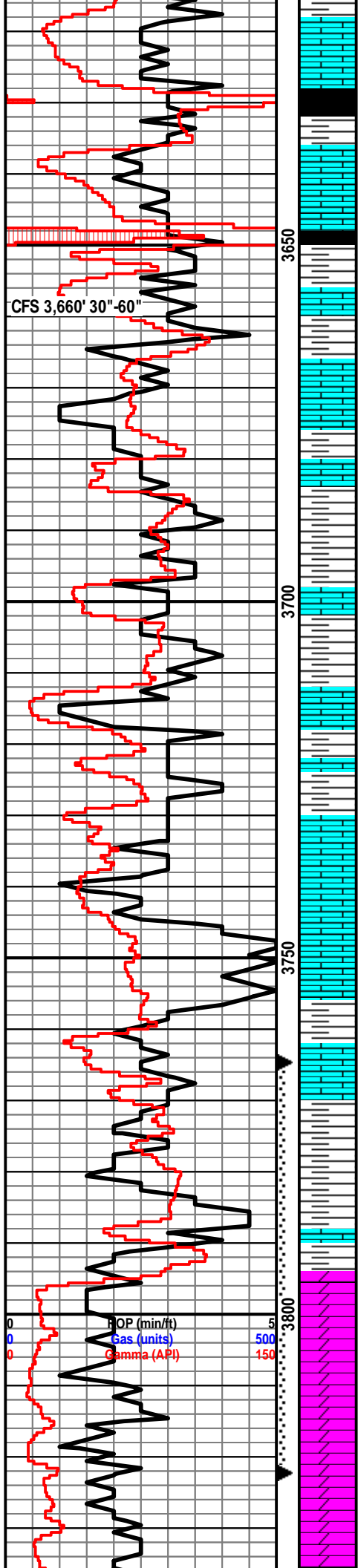


DST #2 3,478'-3,520' (LKC C-D)
 30"-30"-60"-60"
 IF: weak blow built to 6"
 FF: weak blow built to 8.5"
 Rec: 229' Mud Cut Water (15% M, 85% W) Chl. 70K
 FP: 17-73, 76-120#
 SIP: 771-769#
 HP: 1,704-1,708#
 BHT: 109



DST #3 3,517'-3,548' (LKC E-F)
 30"-30"-60"-60"
 IF: BOB in 23 minutes, no blow back
 FF: BOB in 31 minutes, no blow back
 Rec: 252' Mud Cut Water (10% M, 90% W) Chl. 90K, 93' Muddy Water (40% M, 60% W)
 FP: 17-98, 104-178#
 SIP: 723-722#
 HP: 1,719-1,705#
 BHT: 109





Sh: drk gry

Ls: off wh-tan fn xln, mostly DNS, NSFO

Sh: drk gry-blk

Ls: off wh-tan, fn-md xln, scat ool, poor-fair ool porosity, fair-good oil sat, SSFO, fair odor

Sh: drk gry-blk

Ls: off wh-lt brn, fn xln, scat int xln porosity, scat oil st, NSFO, no odor, chalky, chert-off wh

B/KC 3663' (-1452)

Sh: drk gry-grn-brn

Sh: lt gry-drk gry-brn, vry soft

Sh: ala

Ls: off wh-crm, fn xln, vry DNS, NSFO

Sh: drk gry-brn

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

Ls: ala

Ls: off wh-lt brn, fn-md xln, no visible porosity, NSFO, chalky, fossil

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

Sh: drk gry-grn

Sh: lt gry-drk brn-grn

Arbuckle 3793' (-1582)

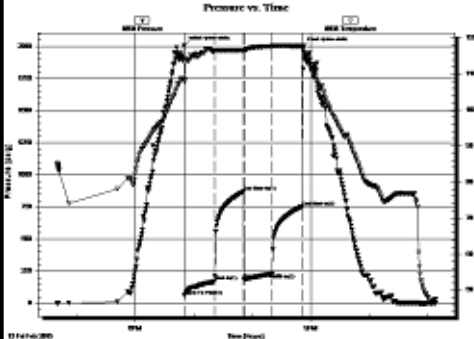
Dolo: off wh-lt tan, fn-md xln, fair int xln porosity, good oil sat, GSFO, good-strong odor

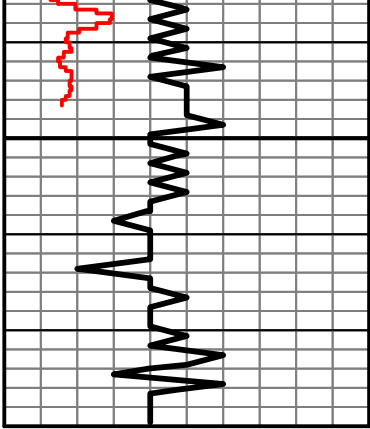
Dolo: off wh-tan, fn-md xln, fair-good sucrosic xln porosity, good oil sat, GSFO, good-strong odor, fair yel fluor

Dolo: off wh-tan, md-crs xln, fair-good int xln porosi, fair-good oil sat, FSFO, good odor

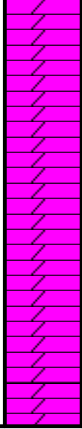
Dolo: off wh-tan, fn-md xln, fair int xln porosity,

DST #4 3,765'-3,822' (Top 27' Arbuckle)
 30"-30"-30"-30"
 IF: BOB in 10 minutes, no blow back
 FF: BOB in 18 minutes, no blow back
 Rec: 5' Clean Oil, 176' SO&WCM (2%O, 18%W, 80%M), 126' SO&GCWM (2%O, 3%G, 5%W, 90%M), 126' SOCMW (2%O, 30%M, 68%W)
 FP: 58-172, 189-231#
 SIP: 869-750#
 HP: 2,006-1,995#
 BHT:117





3850



fair-good oil sat, S-FSFO, good odor, scat
chert-off wh

Dolo: off wh-tan, fn-md xln, poor-fair int xln
porosity, lt oil sat, VSSF0, sl odor

Dolo: off wh-tan-lt brn, fn-md xln, mostly DNS,
NSFO

Dolo: ala