

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1201306

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: _____

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

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:					

<div style="text-align: center;"> CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used </div> <div style="text-align: center;">Report all strings set-conductor, surface, intermediate, production, etc.</div>							
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 (Amount and Kind of Material Used)		Depth
TUBING RECORD: Size: Set At: Packer At:			Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Date of First, Resumed Production, SWD or ENHR.		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<p>DISPOSITION OF GAS:</p> <p><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease</p> <p><i>(If vented, Submit ACO-18.)</i></p>		<p>METHOD OF COMPLETION:</p> <p><input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled</p> <p><i>(Submit ACO-5)</i></p> <p><input type="checkbox"/> Other <i>(Specify)</i> _____</p>	<p>PRODUCTION INTERVAL:</p> <p>_____</p> <p>_____</p>
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

785-483-2025
785-324-1041

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

No. 7405

Date	Sec.	Twp.	Range	County	State	On Location	Finish
2-14-14	7	16	10	Ellsworth	KS		1:15 AM

Location Wilson S. to N. Rd, 1/2 E. S. 2

Lease Harbacek	Well No. 6	Owner
Contractor Royal 2		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Type Job Surface		Charge To Jason Oil
Hole Size 17 1/4	T.D. 428	
Csg. 8 5/8	Depth 428	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 20	Cement Amount Ordered 200 ex com, 37 cc, 2 % gel
Meas Line	Displace 25 1/2 M	

EQUIPMENT

Pumptrk 17	No. Cementer	Common 200
	Helper Nick	Poz. Mix
Bulktrk 3	No. Driver	Gel. 4
	Driver Connie M	Calcium 7
Bulktrk PA	No. Driver	
	Driver Travis	

JOB SERVICES & REMARKS

Remarks: Cement did circulate	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling 2H
	Mileage

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

	Pumptrk Charge Surface
	Mileage 32

X Signature Tom Blake	Tax
	Discount
	Total Charge

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 7109

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
2-20-14	7	16	10	Ellsworth	KS		9:30 PM

Location
Wilson 5 to N Rd, En 2

Lease	Well No.	Owner
Harbacek	6	To Quality Oilwell Cementing, Inc.

Contractor	Type Job	Hole Size	T.D.	Charge To
Royal #2	long string	7 7/8	3400	Jason Oil

Csg.	Depth	Street
5 1/2 #15.5	3391.98	

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
	22.61	180 x com 10% salt 5% gelignite

Meas Line	Displace
	80.19 LL

EQUIPMENT

No.	Cementer	Common
Pumptrk 17	Helper Nick	180
No.	Driver	Poz. Mix
Bulktrk 3	Driver Claten	
No.	Driver	Gel.
Bulktrk 14	Driver Travis	
No.	Driver	Calcium

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole 30 3/4	Salt 16
Mouse Hole 15 5/8	Flowseal 900#
Centralizers 1, 3, 5, 7, 9, 11	Kol-Seal
Baskets 2	Mud CLR 48 500gal
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
Pipe on bottom. Lack circulation. Pumped 500gal of CLR 48 with 10% HAP. 1-1/2 hrs. Plug set. Rat hole with 30 3/4 and Mouse hole with 15 5/8. Hook at 70 1/2. Mixed 13 1/2. Shut down washed Pump and lines. Rechecked Plug and displaced with 800 HAP. Plug landed and held.	Handling 205
1 1/2 hrs. pressure 700 psi	Mileage

FLOAT EQUIPMENT

Guide Shoe
Centralizer
6 Turbos
Baskets
AFU Inserts
Float Shoe
Latch Down

Plug land + 1400 psi		
	Pumptrk Charge	
	Mileage 27 prod string	
		Tax
		Discount
X Signature		Total Charge

X Signature



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Jason Oil Co., LLC**

PO Box 701
Russell, KS 67665

ATTN: Steve Reed

Harbacek #6

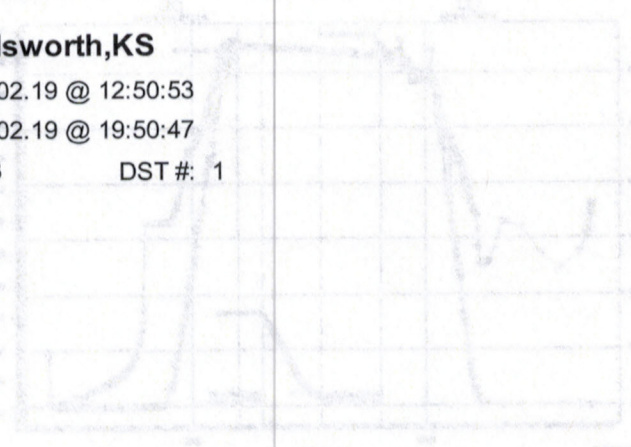
7-16s-10w Ellsworth, KS

Start Date: 2014.02.19 @ 12:50:53

End Date: 2014.02.19 @ 19:50:47

Job Ticket #: 51933

DST #: 1



Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.02.21 @ 11:56:50

Jason Oil Co., LLC

7-16s-10w Ellsworth, KS

Harbacek #6

DST # 1

Arbuckle

2014.02.19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Jason Oil Co., LLC

PO Box 701
Russell, KS 67665

ATTN: Steve Reed

7-16s-10w Ellsworth, KS

Harbacek #6

Job Ticket: 51933

DST#: 1

Test Start: 2014.02.19 @ 12:50:53

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 15:34:48

Time Test Ended: 19:50:47

Interval: **3252.00 ft (KB) To 3305.00 ft (KB) (TVD)**

Total Depth: 3400.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Straddle (Initial)

Tester: Matt Smith

Unit No: 53

Reference Elevations: 1831.00 ft (KB)

1824.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6719

Outside

Press@RunDepth: 32.38 psig @ 3253.00 ft (KB)

Start Date: 2014.02.19

End Date: 2014.02.19

Start Time: 12:50:53

End Time: 19:50:47

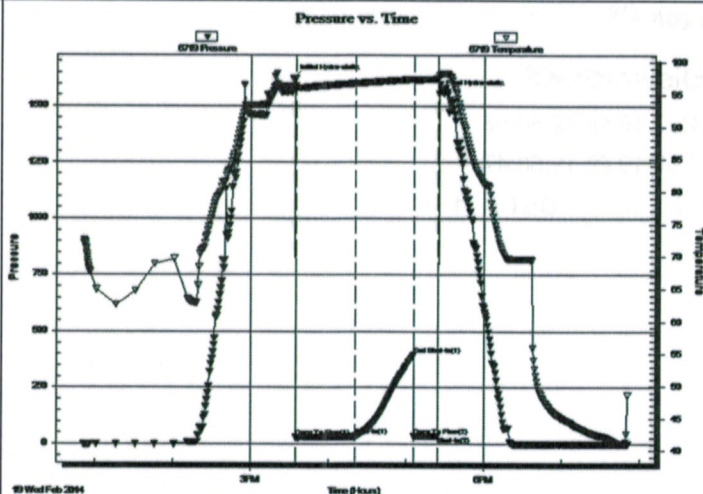
Capacity: 8000.00 psig

Last Calib.: 2014.02.19

Time On Btm: 2014.02.19 @ 15:32:48

Time Off Btm: 2014.02.19 @ 17:25:18

TEST COMMENT: IF: Weak blow . Surf., - 2 1/4".
IS: No blow .
FF: No blow . Pulled test after 20 mins.
FS:



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1625.55	96.36	Initial Hydro-static
2	28.70	95.75	Open To Flow (1)
48	32.38	96.74	Shut-In(1)
93	396.83	97.36	End Shut-In(1)
94	33.22	97.21	Open To Flow (2)
112	33.88	97.45	Shut-In(2)
113	1554.39	97.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	SOCM 5%o 95% m	0.10

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Jason Oil Co., LLC

ATTN: Steve Reed

7-16s-10w Ellsworth,KS

Harbacek #6

Job Ticket: 51933

DST#: 1

Test Start: 2014.02.19 @ 12:50:53

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 15:34:48

Time Test Ended: 19:50:47

Test Type: Conventional Straddle (Initial)

Tester: Matt Smith

Unit No: 53

Interval: 3252.00 ft (KB) To 3305.00 ft (KB) (TVD)

Total Depth: 3400.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1831.00 ft (KB)

1824.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6773 Outside

Press@RunDepth: psig @ 3253.00 ft (KB)

Start Date: 2014.02.19

End Date:

2014.02.19

Start Time: 12:45:35

End Time:

19:53:03

Capacity:	8000.00	psig
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Last Calib.:	2014.02.19
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Time On Btm:

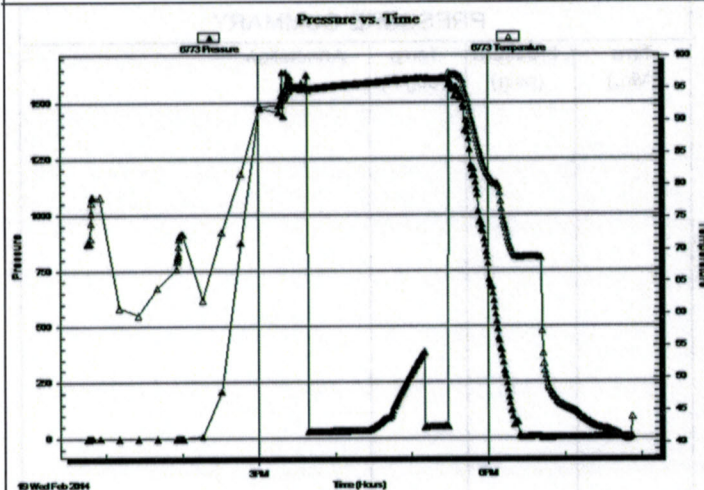
Time Off Btm:

TEST COMMENT: IF: Weak blow . Surf., - 2 1/4".

IS: No blow .

FF: No blow . Pulled test after 20 mins.

FSI:



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	0	0	
10	0	0	
20	0	0	
30	0	0	
40	0	0	
50	0	0	
60	0	0	
70	0	0	
80	0	0	
90	0	0	
100	0	0	
110	0	0	
120	0	0	
130	0	0	
140	0	0	
150	0	0	
160	0	0	
170	0	0	
180	0	0	
190	0	0	
200	0	0	
210	0	0	
220	0	0	
230	0	0	
240	0	0	
250	0	0	
260	0	0	
270	0	0	
280	0	0	
290	0	0	
300	0	0	
310	0	0	
320	0	0	
330	0	0	
340	0	0	
350	0	0	
360	0	0	
370	0	0	
380	0	0	
390	0	0	
400	0	0	
410	0	0	
420	0	0	
430	0	0	
440	0	0	
450	0	0	
460	0	0	
470	0	0	
480	0	0	
490	0	0	
500	0	0	
510	0	0	
520	0	0	
530	0	0	
540	0	0	
550	0	0	
560	0	0	
570	0	0	
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620	0	0	
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660	0	0	
670	0	0	
680	0	0	
690	0	0	
700	0	0	
710	0	0	
720	0	0	
730	0	0	
740	0	0	
750	0	0	
760	0	0	
770	0	0	
780	0	0	
790	0	0	
800	0	0	
810	0	0	
820	0	0	
830	0	0	
840	0	0	
850	0	0	
860	0	0	
870	0	0	
880	0	0	
890	0	0	
900	0	0	
910	0	0	
920	0	0	
930	0	0	
940	0	0	
950	0	0	
960	0	0	
970	0	0	
980	0	0	
990	0	0	
1000	0	0	

Recovery

[illegible]

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Test Start: 2014.02.19 @ 12:50:53

KB to GR/CF: 7.00 ft

Time Off Btm:

FSI:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Jason Oil Co., LLC

7-16s-10w Ellsworth, KS

PO Box 701
Russell, KS 67665

Harbacek #6

Job Ticket: 51933

DST#: 1

ATTN: Steve Reed

Test Start: 2014.02.19 @ 12:50:53

Tool Information

Drill Pipe:	Length: 3134.00 ft	Diameter: 3.80 inches	Volume: 43.96 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	26000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	58000.00 lb
		Total Volume:	44.55 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	3252.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	3305.00 ft				
Interval between Packers:	53.00 ft				
Tool Length:	166.00 ft				
Number of Packers:	3	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3233.00	
Shut In Tool	5.00			3238.00	
Hydraulic tool	5.00			3243.00	
Packer	4.00			3247.00	20.00 Bottom Of Top Packer
Packer	5.00			3252.00	
Stubb	1.00			3253.00	
Recorder	0.00	6719	Outside	3253.00	
Recorder	0.00	6773	Outside	3253.00	
Perforations	6.00			3259.00	
Blank Spacing	32.00			3291.00	
Perforations	10.00			3301.00	
Blank Off Sub	1.00			3302.00	
T.C.	3.00			3305.00	53.00 Tool Interval
Packer	0.00			3305.00	
Stubb	1.00			3306.00	
Recorder	0.00	8676	Below	3306.00	
Perforations	25.00			3331.00	
Blank Spacing	64.00			3395.00	
Bullnose	3.00			3398.00	93.00 Bottom Packers & Anchor

Total Tool Length: 166.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Jason Oil Co., LLC

7-16s-10w Ellsworth, KS

PO Box 701
Russell, KS 67665

Harbacek #6

Job Ticket: 51933

DST#: 1

ATTN: Steve Reed

Test Start: 2014.02.19 @ 12:50:53

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 7.98 in³

Resistivity: 0.00 ohm.m

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

deg API

Water Salinity: 4000 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	SOCM 5%o 95%m	0.098

Total Length: 20.00 ft

Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

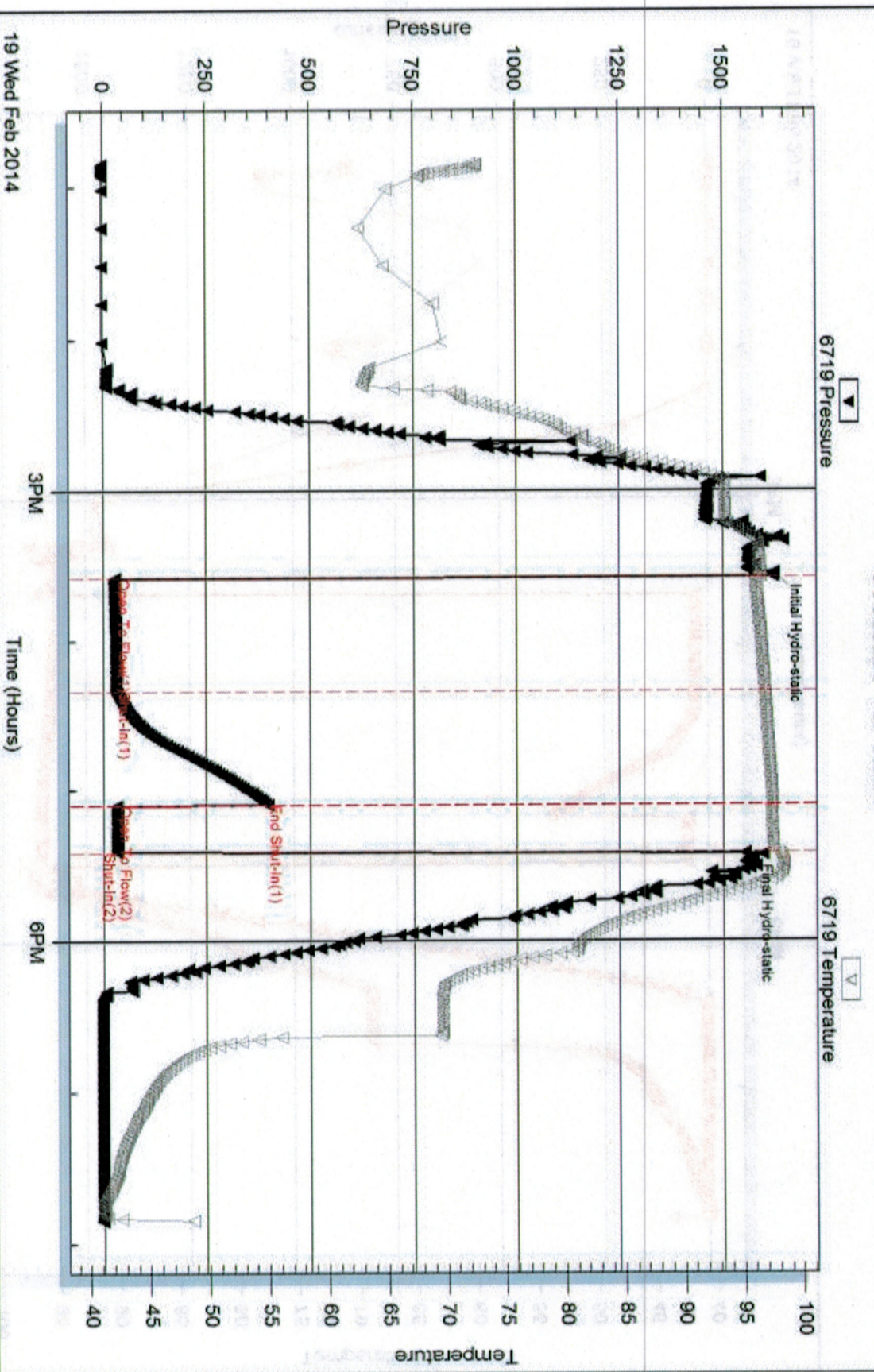
Serial #: 6719

Outside Jason Oil Co., LLC

Harbacek #6

DST Test Number: 1

Pressure vs. Time



Serial #: 6773

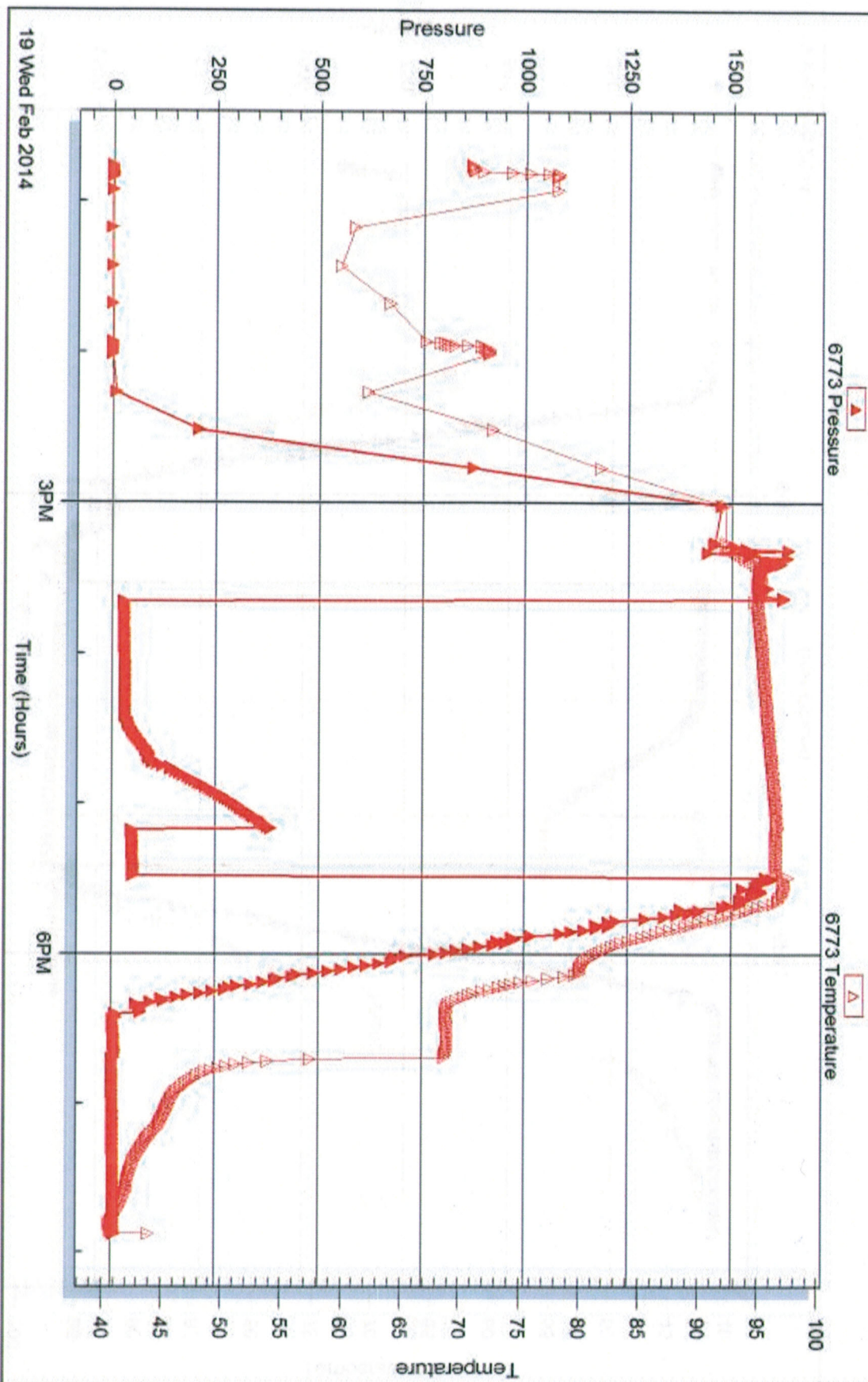
Outside

Jason Oil Co., LLC

Harbacek #6

DST Test Number: 1

Pressure vs. Time

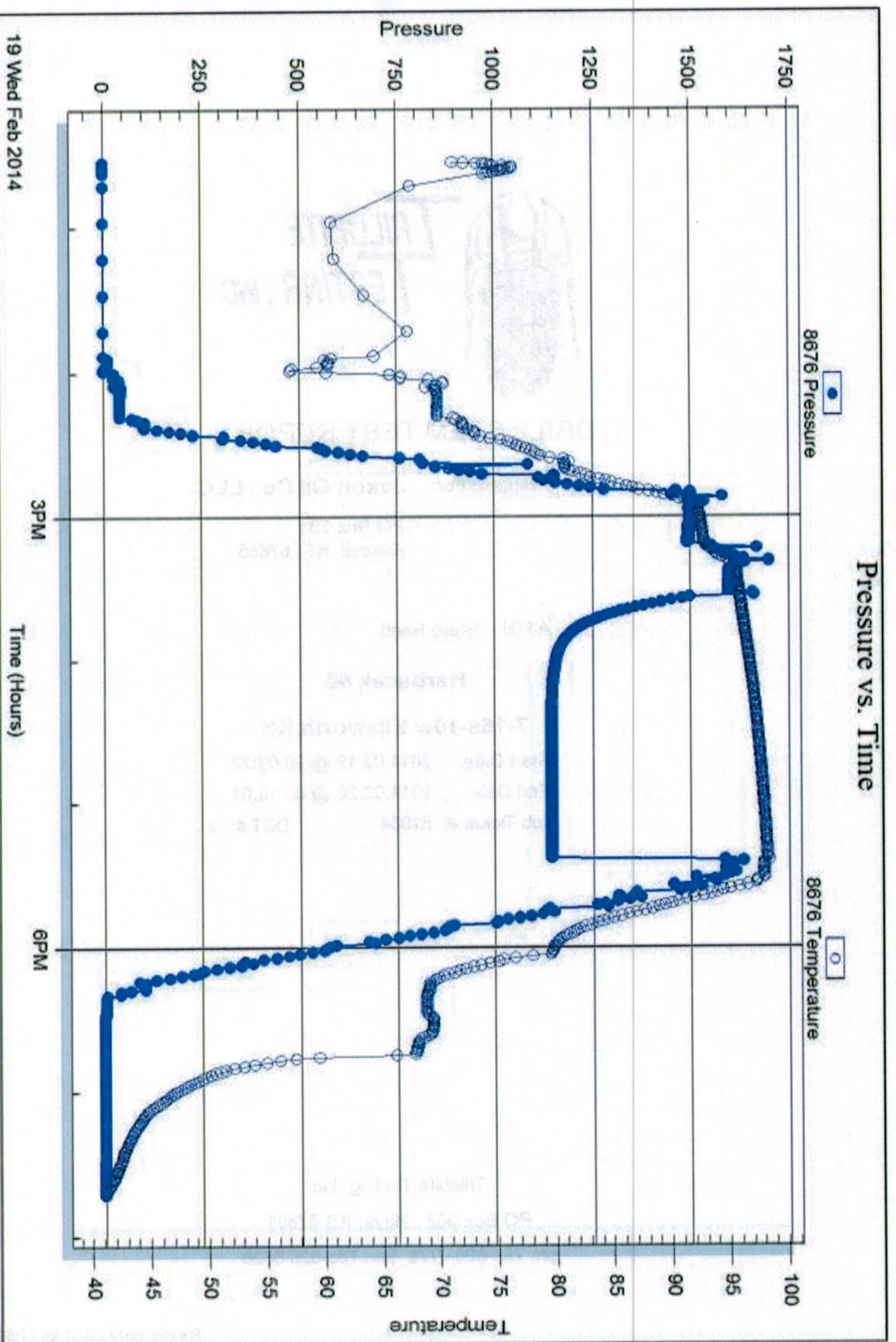


Serial #: 8676

Below (Straddle) Oil Co., LLC

Harbacek #6

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 51933

Printed: 2014.02.21 @ 11:56:53



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Jason Oil Co., LLC**

PO Box 701
Russell, KS 67665

ATTN: Steve Reed

Harbacek #6

7-16s-10w Ellsworth, KS

Start Date: 2014.02.19 @ 20:06:22

End Date: 2014.02.20 @ 01:13:01

Job Ticket #: 51934

DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.02.21 @ 11:56:13

Jason Oil Co., LLC

7-16s-10w Ellsworth, KS

Harbacek #6

DST # 2

Arbuckle

2014.02.19



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Jason Oil Co., LLC

PO Box 701
Russell, KS 67665

ATTN: Steve Reed

7-16s-10w Ellsworth, KS

Harbacek #6

Job Ticket: 51934

DST#: 2

Test Start: 2014.02.19 @ 20:06:22

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 21:29:17

Time Test Ended: 01:13:01

Interval: **3298.00 ft (KB) To 3315.00 ft (KB) (TVD)**

Total Depth: 3400.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Straddle (Reset)

Tester: Matt Smith

Unit No: 53

Reference Elevations: 1831.00 ft (KB)

1824.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6719 Outside

Press@RunDepth: 20.17 psig @ 3299.00 ft (KB)

Start Date: 2014.02.19 End Date: 2014.02.20

Start Time: 20:06:22 End Time: 01:13:01

Capacity: 8000.00 psig

Last Calib.: 2014.02.20

Time On Btm: 2014.02.19 @ 21:28:47

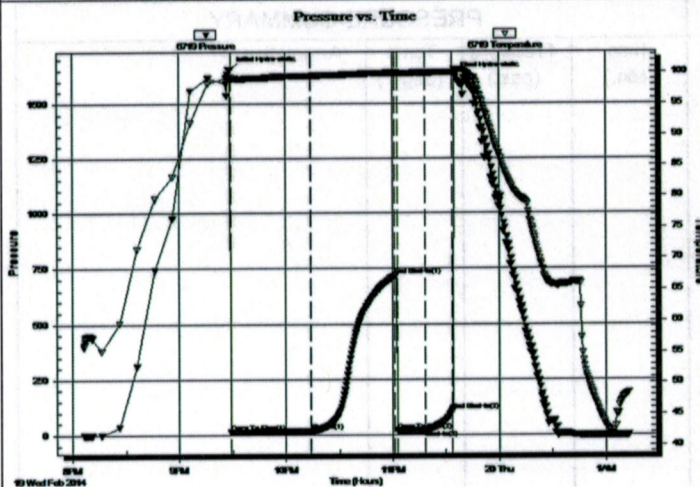
Time Off Btm: 2014.02.19 @ 23:35:02

TEST COMMENT: IF: Weak blow . Surf., - 1/2 ".

ISI: No blow .

FF: No blow .

FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1653.16	99.23	Initial Hydro-static
1	11.84	98.81	Open To Flow (1)
46	17.47	99.49	Shut-In(1)
93	717.13	100.00	End Shut-In(1)
94	19.00	99.75	Open To Flow (2)
110	20.17	99.99	Shut-In(2)
125	106.33	100.09	End Shut-In(2)
127	1624.34	100.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	SOCM 3%o 97% m	0.10

* Recovery from multiple tests

Gas Rates

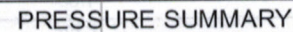
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Test Start: 2014.02.19 @ 20:06:22

KB to GR/CF: 7.00 ft

FSI: No blow .



Recovery

Gas Rates

Printed: 2014.02.21 @ 11:56:14



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Jason Oil Co., LLC

7-16s-10w Ellsworth, KS

PO Box 701
Russell, KS 67665

Harbacek #6

Job Ticket: 51934

DST#: 2

ATTN: Steve Reed

Test Start: 2014.02.19 @ 20:06:22

Tool Information

Drill Pipe:	Length: 3187.00 ft	Diameter: 3.80 inches	Volume: 44.71 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 58000.00 lb
			Total Volume: 45.30 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3298.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	3315.00 ft			
Interval between Packers:	17.00 ft			
Tool Length:	119.00 ft			
Number of Packers:	3	Diameter:	6.75 inches	
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3279.00	
Shut In Tool	5.00			3284.00	
Hydraulic tool	5.00			3289.00	
Packer	4.00			3293.00	20.00 Bottom Of Top Packer
Packer	5.00			3298.00	
Stubb	1.00			3299.00	
Recorder	0.00	6719	Outside	3299.00	
Recorder	0.00	6773	Outside	3299.00	
Perforations	5.00			3304.00	
Blank Spacing	0.00			3304.00	
Perforations	7.00			3311.00	
Blank Off Sub	1.00			3312.00	
T.C.	3.00			3315.00	17.00 Tool Interval
Packer	0.00			3315.00	
Stubb	1.00			3316.00	
Recorder	0.00	8676	Below	3316.00	
Change Over Sub	1.00			3317.00	
Blank Spacing	64.00			3381.00	
Change Over Sub	1.00			3382.00	
Perforations	12.00			3394.00	
Bullnose	3.00			3397.00	82.00 Bottom Packers & Anchor

Total Tool Length: 119.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Jason Oil Co., LLC

7-16s-10w Ellsworth, KS

PO Box 701
Russell, KS 67665

Harbacek #6

Job Ticket: 51934

DST#: 2

ATTN: Steve Reed

Test Start: 2014.02.19 @ 20:06:22

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 55.00 sec/qt
Water Loss: 7.97 in³
Resistivity: 0.00 ohm.m
Salinity: 4000.00 ppm
Filter Cake: 0.20 inches

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

Oil API: deg API
Water Salinity: 4000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	SOCM 3%o 97%m	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

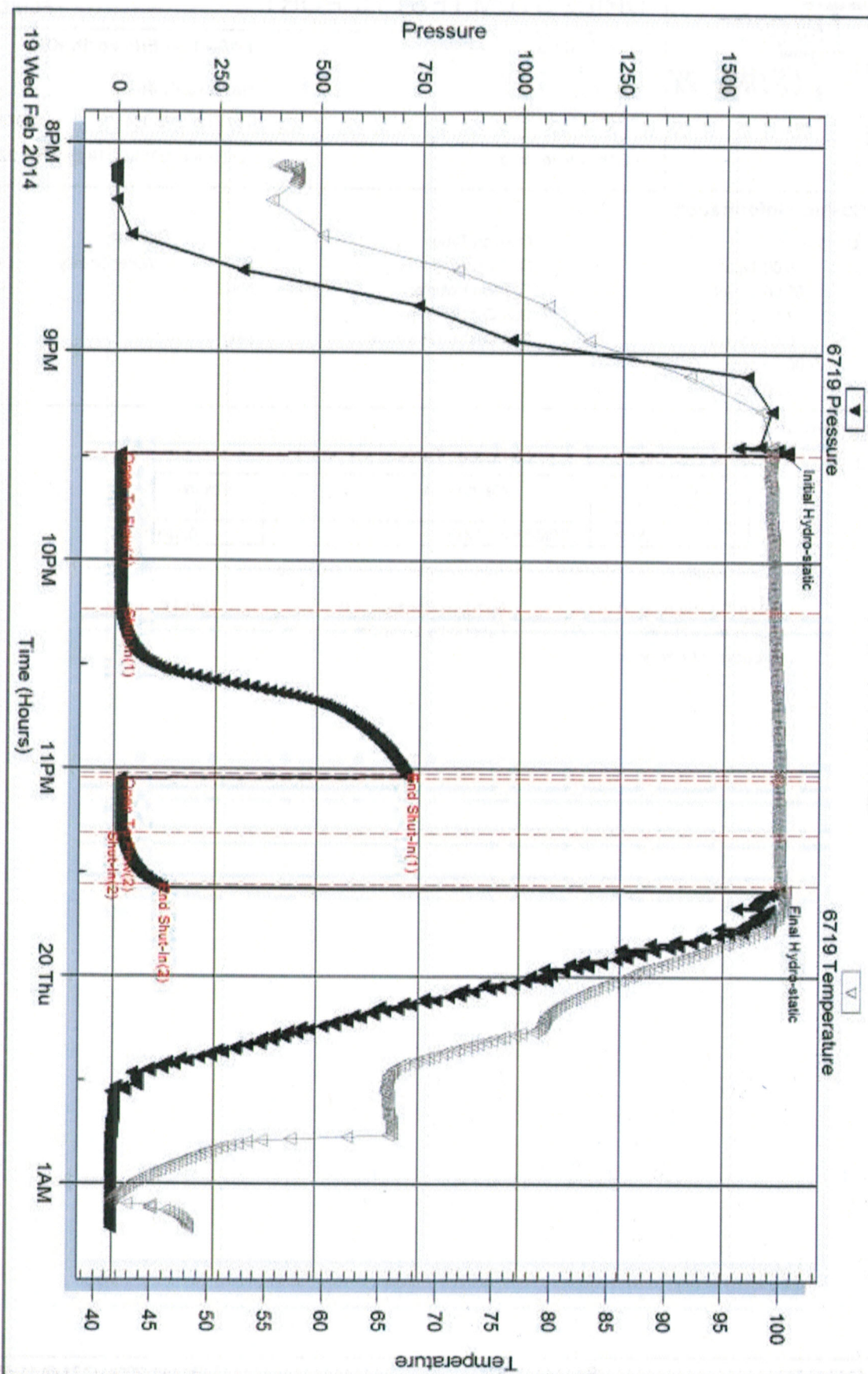
Serial #: 6719

Outside Jason Oil Co., LLC

Harbacek #6

DST Test Number: 2

Pressure vs. Time



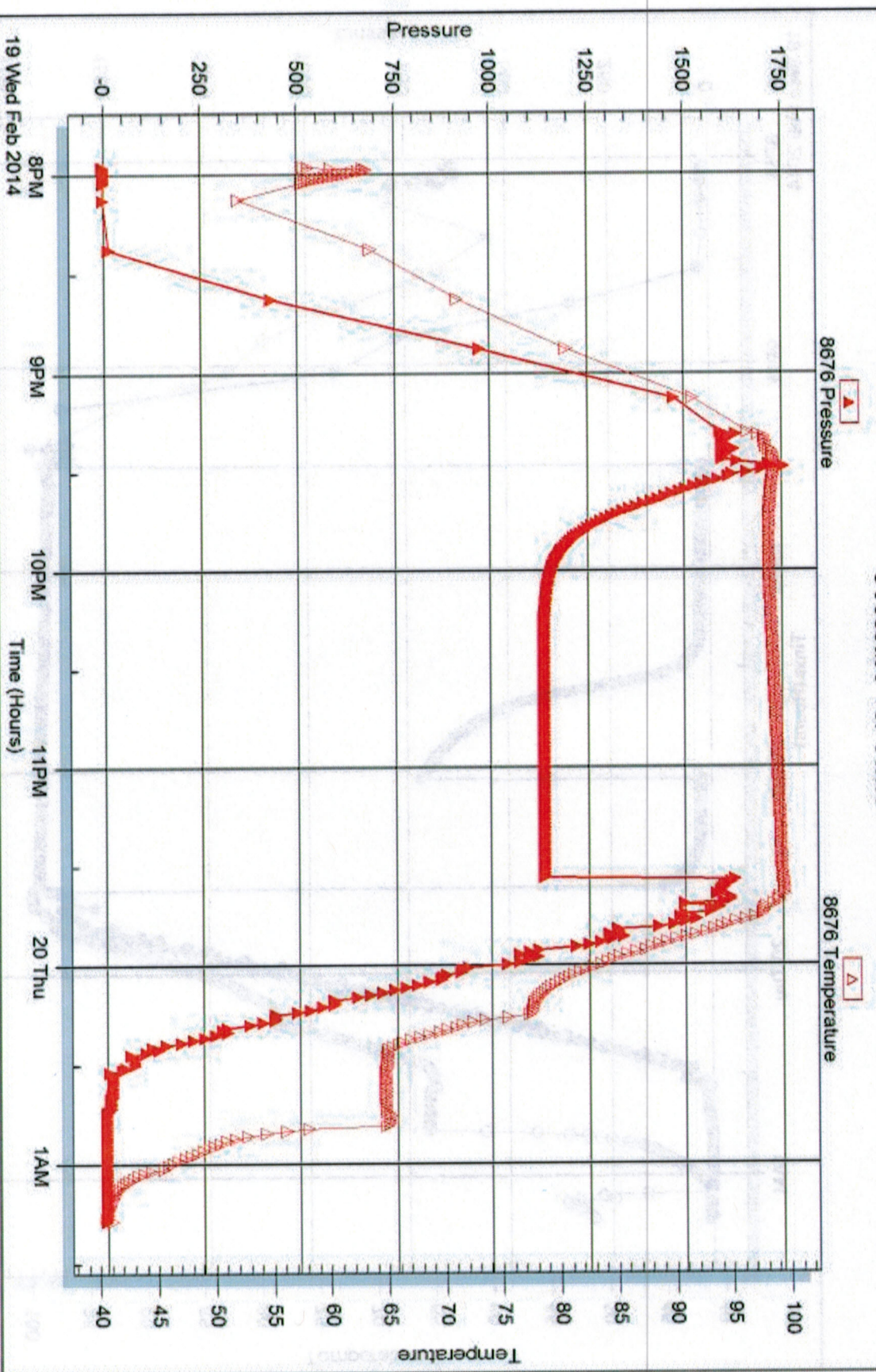
Serial #: 8676

Below (Straddler) Oil Co. LLC

Harbacek #6

DST Test Number: 2

Pressure vs. Time



TriMobile Testing, Inc

Ref. No: 51934

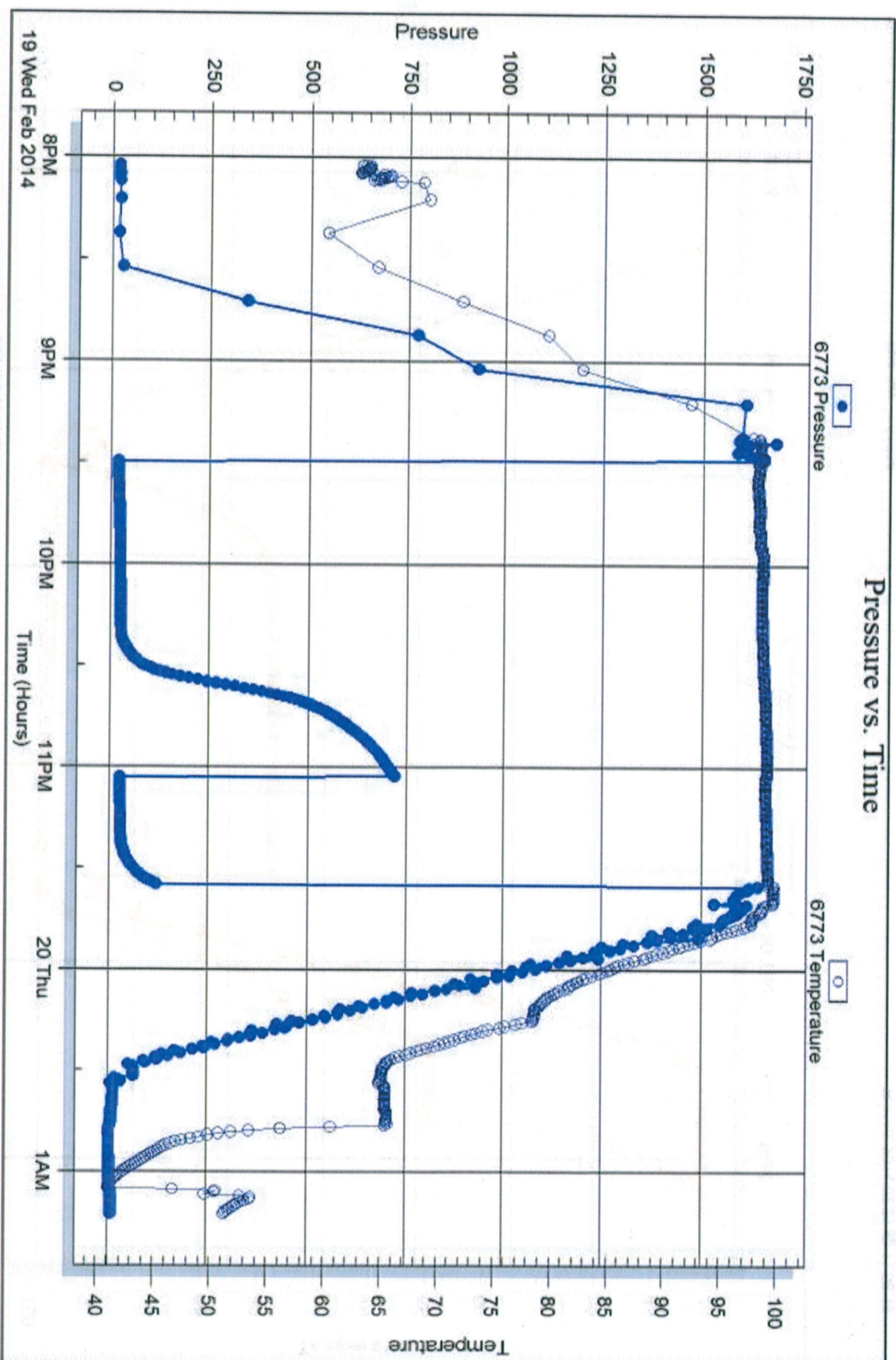
Printed: 2014.02.21 @ 11:56:16

Serial #: 6773

Outside Jason Oil Co., LLC

Harback #6

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Jason Oil Co., LLC**

PO Box 701
Russell, KS 67665

ATTN: Steve Reed

Harbacek #6

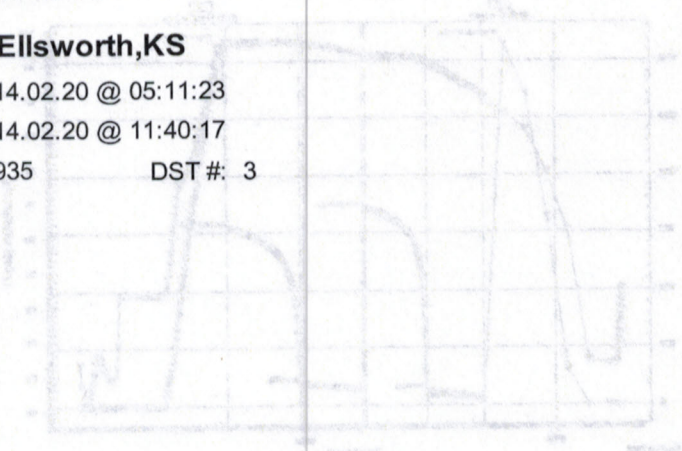
7-16s-10w Ellsworth, KS

Start Date: 2014.02.20 @ 05:11:23

End Date: 2014.02.20 @ 11:40:17

Job Ticket #: 51935

DST #: 3

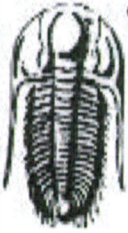


Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.02.21 @ 14:48:16



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Jason Oil Co., LLC

PO Box 701
Russell, KS 67665

ATTN: Steve Reed

7-16s-10w Ellsworth, KS

Harbacek #6

Job Ticket: 51935

DST#: 3

Test Start: 2014.02.20 @ 05:11:23

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 06:51:18

Time Test Ended: 11:40:17

Interval: **3298.00 ft (KB) To 3325.00 ft (KB) (TVD)**

Total Depth: 3400.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Straddle (Reset)

Tester: Matt Smith

Unit No: 53

Reference Elevations: 1831.00 ft (KB)

1824.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6719

Outside

Press@RunDepth: 94.58 psig @ 3299.00 ft (KB)

Start Date: 2014.02.20

End Date: 2014.02.20

Start Time: 05:11:23

End Time: 11:40:17

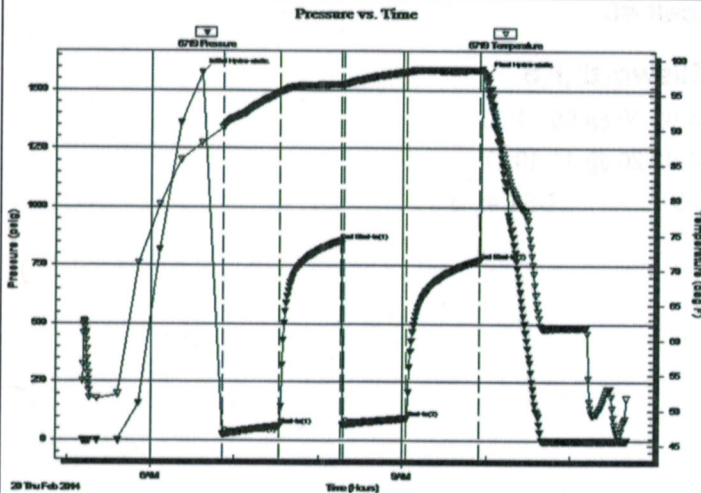
Capacity: 8000.00 psig

Last Calib.: 2014.02.20

Time On Btm: 2014.02.20 @ 06:36:18

Time Off Btm: 2014.02.20 @ 10:00:18

TEST COMMENT: IF: Weak blow . B.O.B. in 30 mins.
IS: Weak blow . Surf., - 1/2 ".
FF: Weak blow . Surf., - 13 ".
FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1573.69	88.01	Initial Hydro-static
15	23.81	90.24	Open To Flow (1)
56	61.41	95.30	Shut-In(1)
100	856.90	96.39	End Shut-In(1)
102	65.49	96.35	Open To Flow (2)
147	94.58	98.17	Shut-In(2)
199	774.27	98.43	End Shut-In(2)
204	1566.07	95.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	WCMGO 5%w 10%g 35%m 50%o	4.21
0.00	240' G.I.P.	0.00

* Recovery from multiple tests

Gas Rates

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



Jason Oil Co., LLC

ATTN: Steve Reed

7-16s-10w Ellsworth, KS

Harbacek #6

Job Ticket: 51935

DST#: 3

Test Start: 2014.02.20 @ 05:11:23

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 06:51:18

Time Test Ended: 11:40:17

Interval: 3298.00 ft (KB) To 3325.00 ft (KB) (TVD)

Total Depth: 3400.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Straddle (Reset)

Tester: Matt Smith

Unit No: 53

Reference Elevations: 1831.00 ft (KB)

1824.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6773 Outside

Press@RunDepth: psig @ 3299.00 ft (KB)

Start Date: 2014.02.20 End Date: 2014.02.20

Start Time: 05:06:32 End Time: 11:38:56

Capacity: 8000.00 psig

Last Calib.:	05.534405 2014.02.20
--------------	----------------------

Time On Btm:

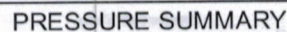
Time Off Btm:

TEST COMMENT: IF: Weak blow . B.O.B. in 30 mins.

ISI: Weak blow . Surf., - 1/2 ".

FF: Weak blow . Surf., - 13 ".

FSI: No blow .



Recovery

Gas Rates

* Recovery from multiple tests



Test Start: 2014.02.20 @ 05:11:23

KB to GR/CF: 7.00 ft

Time Off Btm:

FSI: No blow .





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Jason Oil Co., LLC

7-16s-10w Ellsworth, KS

PO Box 701
Russell, KS 67665

Harbacek #6

Job Ticket: 51935

DST#: 3

ATTN: Steve Reed

Test Start: 2014.02.20 @ 05:11:23

Tool Information

Drill Pipe:	Length: 3318.00 ft	Diameter: 3.80 inches	Volume: 46.54 bbl	Tool Weight:	lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	56000.00 lb
			Total Volume: 46.54 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	40.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	3298.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	3325.00 ft				
Interval between Packers:	27.00 ft				
Tool Length:	119.00 ft				
Number of Packers:	3	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3279.00	
Shut In Tool	5.00			3284.00	
Hydraulic tool	5.00			3289.00	
Packer	4.00			3293.00	20.00 Bottom Of Top Packer
Packer	5.00			3298.00	
Stubb	1.00			3299.00	
Recorder	0.00	6719	Outside	3299.00	
Recorder	0.00	6773	Outside	3299.00	
Perforations	22.00			3321.00	
Blank Spacing	0.00			3321.00	
Perforations	0.00			3321.00	
Blank Off Sub	1.00			3322.00	
T.C.	3.00			3325.00	27.00 Tool Interval
Packer	0.00			3325.00	
Stubb	1.00			3326.00	
Recorder	0.00	8676	Below	3326.00	
Perforations	0.00			3326.00	
Change Over Sub	1.00			3327.00	
Blank Spacing	64.00			3391.00	
Change Over Sub	1.00			3392.00	
Perforations	2.00			3394.00	
Bullnose	3.00			3397.00	72.00 Bottom Packers & Anchor
Total Tool Length:		119.00			



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Jason Oil Co., LLC

7-16s-10w Ellsworth, KS

PO Box 701
Russell, KS 67665

Harbacek #6

Job Ticket: 51935

DST#: 3

ATTN: Steve Reed

Test Start: 2014.02.20 @ 05:11:23

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 55.00 sec/qt
Water Loss: 7.96 in³
Resistivity: 0.00 ohm.m
Salinity: 4000.00 ppm
Filter Cake: 0.20 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig
Oil API: deg API
Water Salinity: 4000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	WCMGO 5%w 10%g 35%m 50%o	4.208
0.00	240' G.I.P.	0.000

Total Length: 300.00 ft Total Volume: 4.208 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

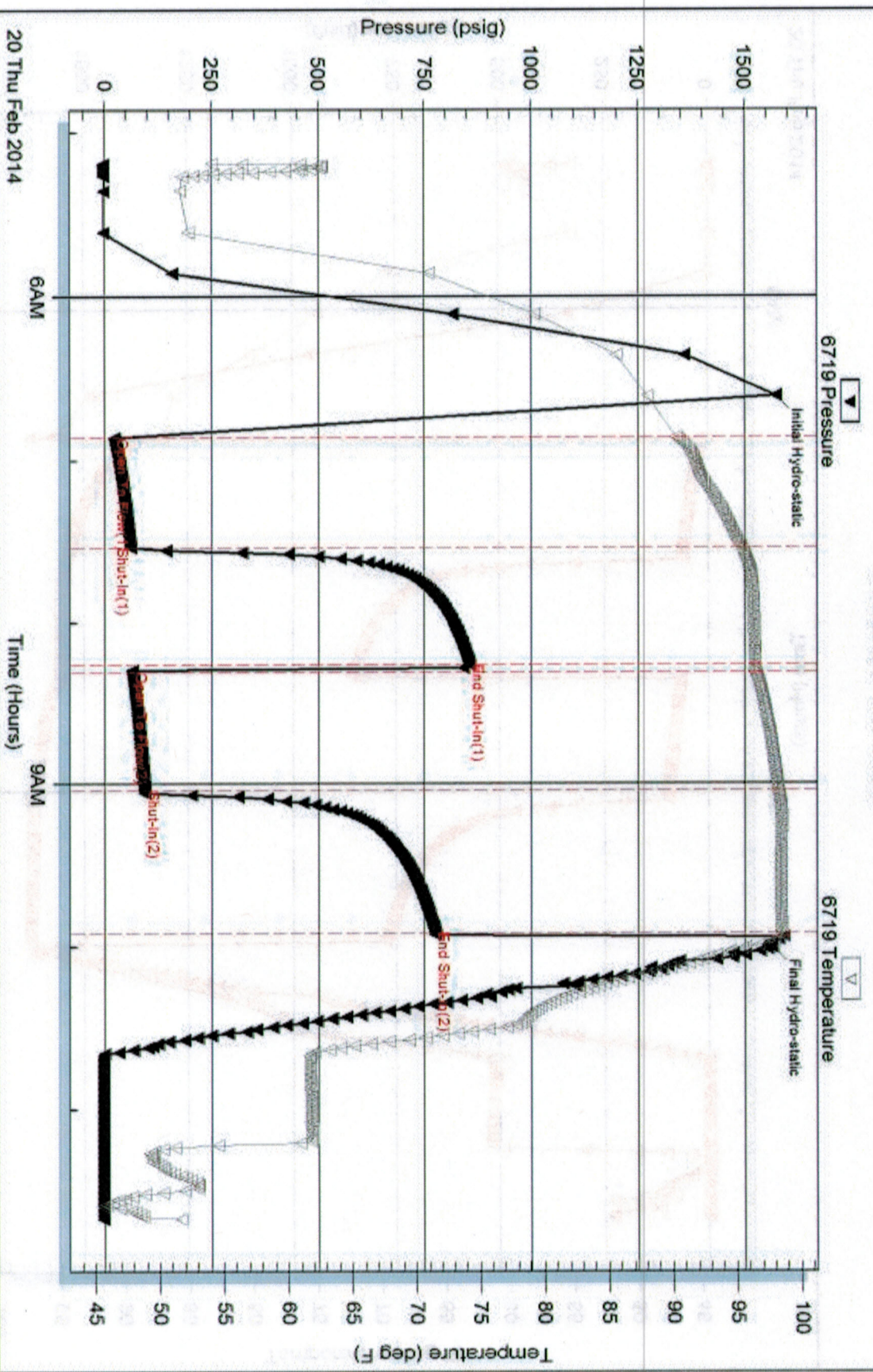
Serial #: 6719

Outside Jason Oil Co., LLC

Harbacek #6

DST Test Number: 3

Pressure vs. Time



Serial #: 6773

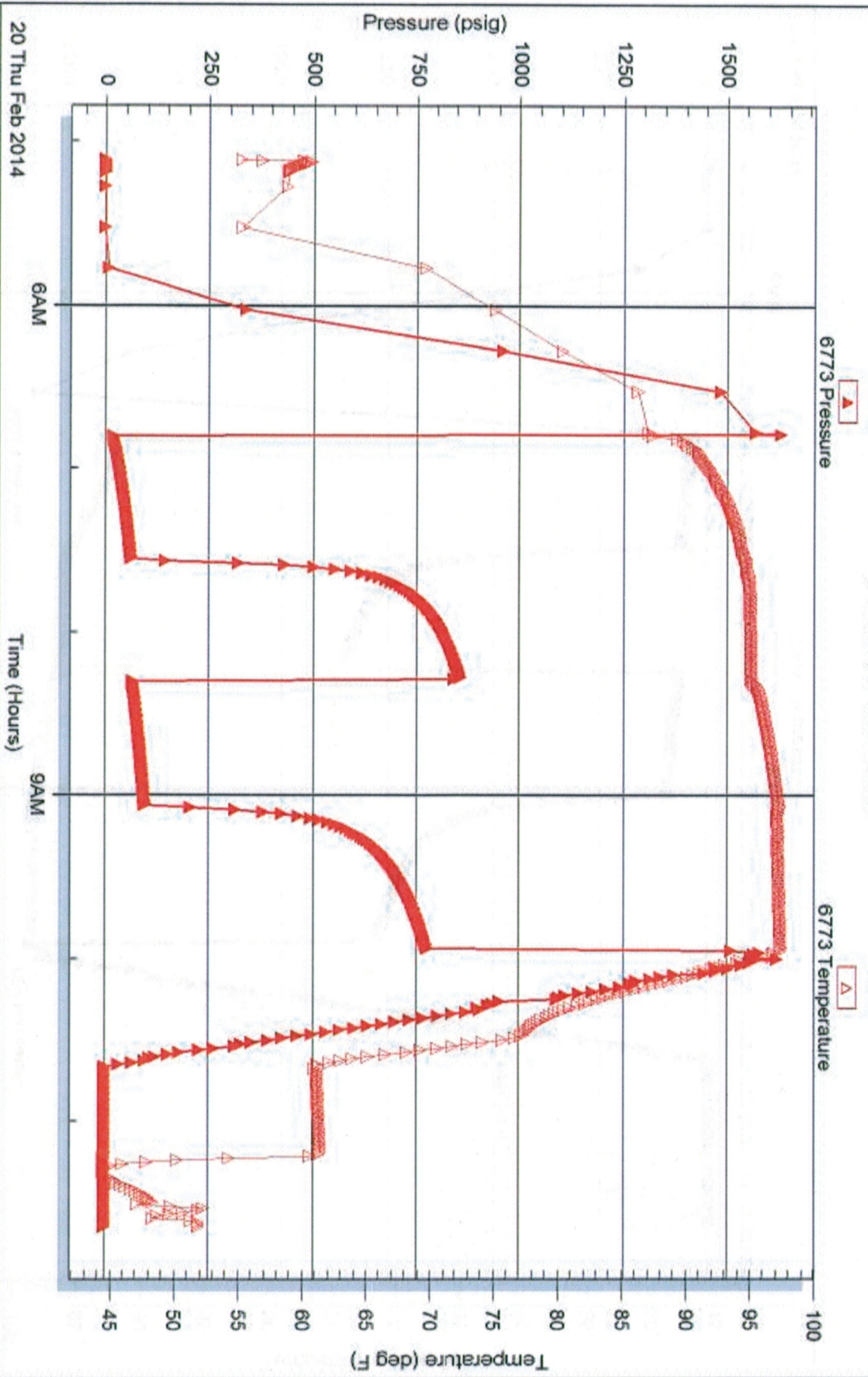
Outside

Jason Oil Co., LLC

Harbacek #6

DST Test Number: 3

Pressure vs. Time

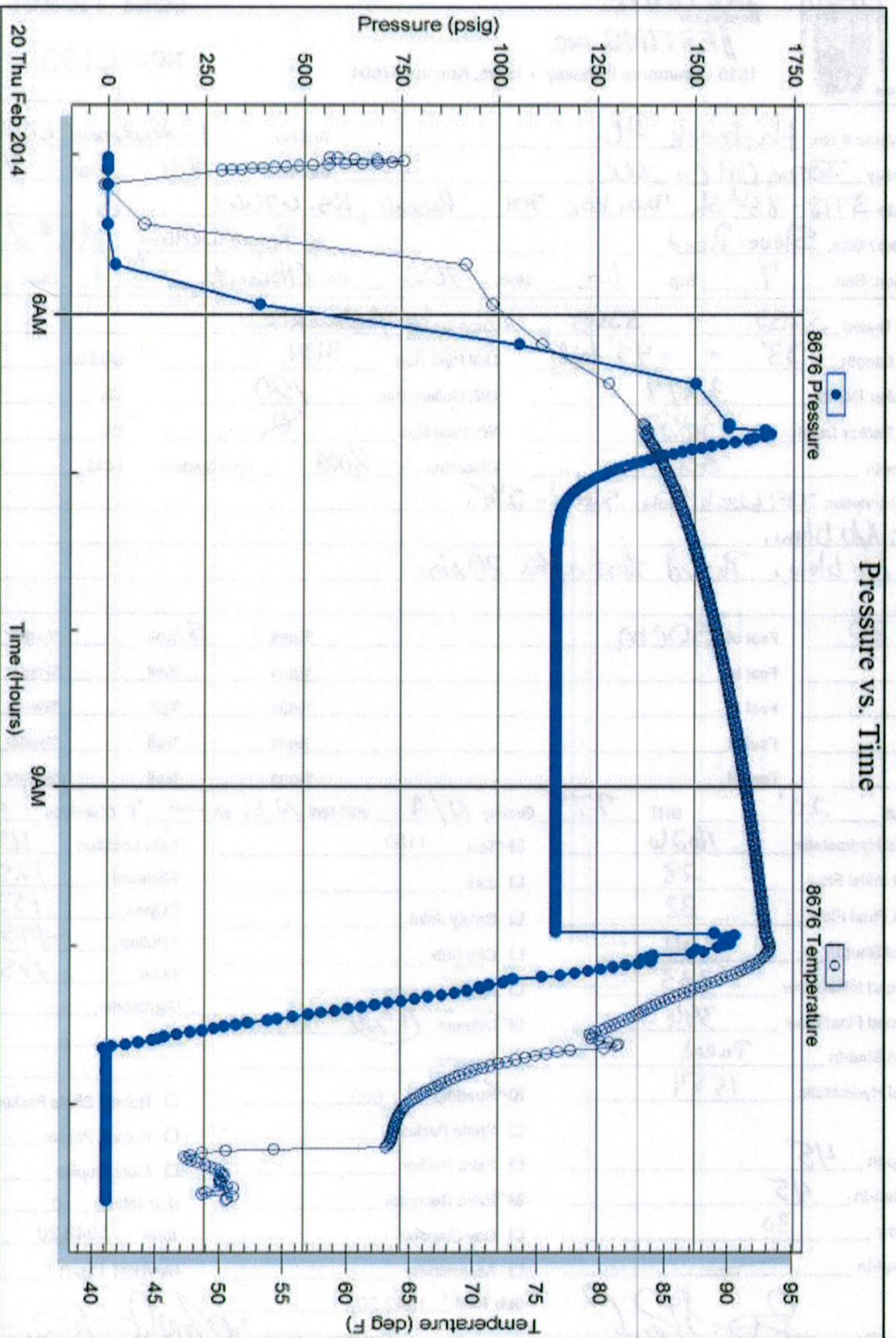


Serial #: 8676

Below (Stradden) Oil Co., LLC

Harbacek #6

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 51935

Printed: 2014.02.21 @ 14:48:19



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51933

Well Name & No. Hatchcock #6 Test No. 1 - Stand Date 02/19/14
 Company Jason Oil Co., LLC Elevation 1831 KB 1824 GL
 Address 3718 - 83rd St. P.O. Box 701 Russell, KS. 67665
 Co. Rep / Geo. Steve Reed Rig Royal Drilling Rig # 2
 Location: Sec. 7 Twp. 16S Rge. 10W Co. Ellsworth State KS.

Interval Tested 3252 - 3305 Zone Tested Arbuckle
 Anchor Length 53' - 95' tail Drill Pipe Run 3134 Mud Wt. 9.2
 Top Packer Depth 3247 Drill Collars Run 120 Vis .55
 Bottom Packer Depth 3252 Wt. Pipe Run 8 WL 8
 Total Depth 3305 Chlorides 4000 ppm System LCM 1st

Blow Description IF: Weak blows. Surfs. - 2 1/4"

ISL: No blow.

FF: No blow. Pulled test after 20 min

FSL:

Rec <u>20</u>	Feet of <u>50cm</u>	%gas <u>5</u>	%oil	%water	<u>95</u> %mud
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 20' BHT 97° Gravity N/A API RW N & . @ °F Chlorides 4,000 ppm

(A) Initial Hydrostatic 1626 ☒ Test 1150 T-On Location 1130
 (B) First Initial Flow 28 ☐ Jars T-Started 1250
 (C) First Final Flow 32 ☐ Safety Joint T-Open 1535
 (D) Initial Shut-In 324 ☐ Circ Sub T-Pulled 1950 / 1725
 (E) Second Initial Flow 333 ☐ Hourly Standby T-Out 1950
 (F) Second Final Flow 396 ☒ Mileage (1.52) 124rt 192.20 Comments
 (G) Final Shut-In Pulled ☐ Sampler ☐ Ruined Shale Packer
 (H) Final Hydrostatic 1554 ☒ Straddle 600 ☐ Shale Packer ☐ Ruined Packer
☐ Extra Packer ☐ Extra Copies

Initial Open 45
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In —
☒ Extra Recorder Sub Total 0
☐ Day Standby Total 1942.20
☐ Accessibility MP/DST Disc't

Approved By Steve Reed Our Representative Mark Smith

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51934

Well Name & No. Harbacek #6 Test No. 2-saddle Date 2-19-14
 Company Sason Oil Co., LLC Elevation 1831 KB 1824 GL
 Address 3718-83rd St. P.O. Box 701 Russell, Ks. 67665
 Co. Rep / Geo. Steve Reed Rig Royal Drilling Rig # 2
 Location: Sec. 7 Twp. 16s Rge. 10w Co. Ellsworth State KS.

Interval Tested 3298 - 3315 Zone Tested Arbuckle
 Anchor Length 17' - 85' tail Drill Pipe Run 3187 Mud Wt. 9.2
 Top Packer Depth 3293 Drill Collars Run 120 Vis SS
 Bottom Packer Depth 3298 WL Pipe Run 12 WL 8
 Total Depth 3315 Chlorides 4,000 ppm System LCM 1st

Blow Description IF: Weak blow, Surf. - 1/2".

ISI: No blow.

FF: No blow.

FSI: No blow.

Rec. <u>20</u>	Feet of <u>50cm</u>	%gas <u>3</u>	%oil	%water	<u>97</u> %mud
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 20' BHT 109° Gravity N/A API RW N.C. @ _____ °F Chlorides 4,000 ppm

(A) Initial Hydrostatic 1653 ☒ Test 1150 T-On Location 1130
 (B) First Initial Flow 12 ☐ Jars T-Started 2006
 (C) First Final Flow 17 ☐ Safety Joint T-Open 2129
 (D) Initial Shut-In 717 ☐ Circ Sub T-Pulled 2335
 (E) Second Initial Flow 19 ☐ Hourly Standby T-Out 0113
 (F) Second Final Flow 20 ☐ Mileage _____
 (G) Final Shut-In 106 ☐ Sampler _____
 (H) Final Hydrostatic 1624 ☒ Saddle 600 ☐ Ruined Shale Packer _____

Initial Open 45 ☐ Shale Packer _____
 Initial Shut-In 45 ☐ Extra Packer _____
 Final Flow 15 ☒ Extra Recorder _____
 Final Shut-In 15 ☐ Day Standby _____
 Sub Total 1750 ☐ Accessibility _____
 MP/DST Disc't _____

Approved By Steve Reed

Our Representative Matthew A Smith

Triobite 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. 51935

Well Name & No. Harbacek #6 Test No. 3-Straddle Date 2/20/14
 Company Sasch Oil Co., LLC Elevation 1831 KB 1824 GL
 Address 3718-83rd St. P.O. Box 701 Russell, KS. 67665
 Co. Rep / Geo. Steve Reed Rig Royal Drilling Brg #2
 Location: Sec. 7 Twp. 16s Rge. 10w Co. Ellsworth State Ks.

Interval Tested 3298 - 3325 Zone Tested Arbuckle
 Anchor Length 27' - 75' tail Drill Pipe Run 3318 Mud Wt. 9.2
 Top Packer Depth 3293 Drill Collars Run 0 Vis 55
 Bottom Packer Depth 3298 Wt. Pipe Run 0 WL 8
 Total Depth 3325 Chlorides 4,000 ppm System LCM 1st

Blow Description IF: Weak blow. B.O.B. in 30 min.
ISI: Weak blow. Surf. - 1/2".
FF: Weak blow. Surf. - 13".
FSI: No blows.

Rec	Feet of	%gas	%oil	%water	%mud
240'	G.I.P.				
180'	WCMGO	10	50	5	35
		%gas	%oil	%water	%mud
		%gas	%oil	%water	%mud
		%gas	%oil	%water	%mud

Rec Total 180' BHT _____ Gravity N.A. API RW N.C. @ _____ °F Chlorides 4,000 ppm

(A) Initial Hydrostatic <u>1574</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1130</u>
(B) First Initial Flow <u>24</u>	<input type="checkbox"/> Jars _____	T-Started <u>0511</u>
(C) First Final Flow <u>61</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>0651</u>
(D) Initial Shut-In <u>857</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>0945</u>
(E) Second Initial Flow <u>65</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1140</u>
(F) Second Final Flow <u>95</u>	<input type="checkbox"/> Mileage _____	Comments _____
(G) Final Shut-In <u>774</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1566</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45

☐ Extra Packer _____
☒ Extra Recorder _____
☐ Day Standby _____
☐ Accessibility _____
 Sub Total 1750

Sub Total 0
 Total 1750
 MP/DST Disc't _____

Approved By Steve Reed

Our Representative Matthew A. Smith

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.