



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1170712
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: _____

1170712

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"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	TDI, Inc.
Well Name	Lawrence 1
Doc ID	1170712

Tops

Name	Top	Datum
Anhydrite	1228'	+794
Topeka	3000'	-978'
Heebner	3269'	-1247'
Lansing/Kansas City	3316'	-1294'
Base Kansas City	3558'	-1536'
Marmaton	3610'	-1588'
Conglomerate Sand	3620'	-1598'
Arbuckle	3638'	-1616'



DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Rd
Hays KS 67601

ATTN: Herb Deines

Lawrence #1

15-15s-19w Ellis,KS

Start Date: 2013.11.18 @ 07:15:00

End Date: 2013.11.18 @ 13:49:15

Job Ticket #: 55323 DST #: 1

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

Printed: 2013.11.21 @ 11:18:31

TDI Inc. 15-15s-19w Ellis,KS Lawrence #1 DST # 1 KC "C" 2013.11.18



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TDI Inc.
1310 Bison Rd
Hays KS 67601
ATTN: Herb Deines

15-15s-19w Ellis,KS
Lawrence #1
Job Ticket: 55323 **DST#: 1**
Test Start: 2013.11.18 @ 07:15:00

GENERAL INFORMATION:

Formation: **KC "C"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 09:43:00 Tester: Brett Dickinson
 Time Test Ended: 13:49:15 Unit No: 59
 Interval: **3296.00 ft (KB) To 3344.00 ft (KB) (TVD)** Reference Elevations: 2022.00 ft (KB)
 Total Depth: 3344.00 ft (KB) (TVD) 2013.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 9.00 ft

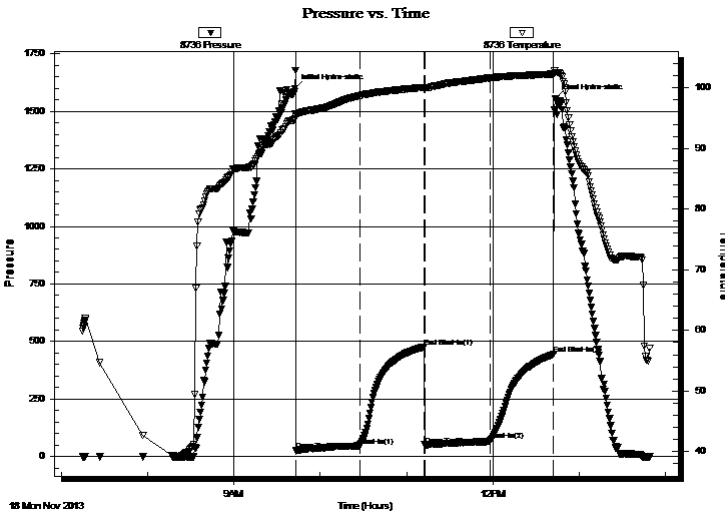
Serial #: 8736

Outside

Press@RunDepth: 68.92 psig @ 3307.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.18 End Date: 2013.11.18 Last Calib.: 2013.11.18
 Start Time: 07:15:05 End Time: 13:49:14 Time On Btm: 2013.11.18 @ 09:42:15
 Time Off Btm: 2013.11.18 @ 12:43:30

TEST COMMENT: IF-4 1/4" blow
 IS-No blow
 FF-6" blow
 FSI-Weak surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1598.86	94.91	Initial Hydro-static
1	25.03	95.24	Open To Flow (1)
45	46.43	98.68	Shut-In(1)
90	475.86	100.06	End Shut-In(1)
91	50.26	99.96	Open To Flow (2)
136	68.92	101.64	Shut-In(2)
180	443.80	102.26	End Shut-In(2)
182	1554.71	102.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	SOWCM 10%O 10%W 80%M	0.49
60.00	VSOWCM 2%O 20%W 78%M	0.84

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI Inc.
1310 Bison Rd
Hays KS 67601
ATTN: Herb Deines

15-15s-19w Ellis,KS
Lawrence #1
Job Ticket: 55323 **DST#: 1**
Test Start: 2013.11.18 @ 07:15:00

Tool Information

Drill Pipe:	Length: 3281.00 ft	Diameter: 3.80 inches	Volume: 46.02 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 46.02 bbl</u>	Tool Chased	3.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	37000.00 lb
Depth to Top Packer:	3296.00 ft			Final	38000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	48.00 ft				
Tool Length:	69.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3276.00	
Shut In Tool	5.00			3281.00	
Hydraulic tool	5.00			3286.00	
Packer	5.00			3291.00	21.00 Bottom Of Top Packer
Packer	5.00			3296.00	
Stubb	1.00			3297.00	
Perforations	10.00			3307.00	
Recorder	0.00	6753	Inside	3307.00	
Recorder	0.00	8736	Outside	3307.00	
Change Over Sub	1.00			3308.00	
Drill Pipe	32.00			3340.00	
Change Over Sub	1.00			3341.00	
Bullnose	3.00			3344.00	48.00 Bottom Packers & Anchor

Total Tool Length: 69.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc. **15-15s-19w Ellis,KS**
 1310 Bison Rd **Lawrence #1**
 Hays KS 67601 Job Ticket: 55323 **DST#: 1**
 ATTN: Herb Deines Test Start: 2013.11.18 @ 07:15:00

Mud and Cushion Information

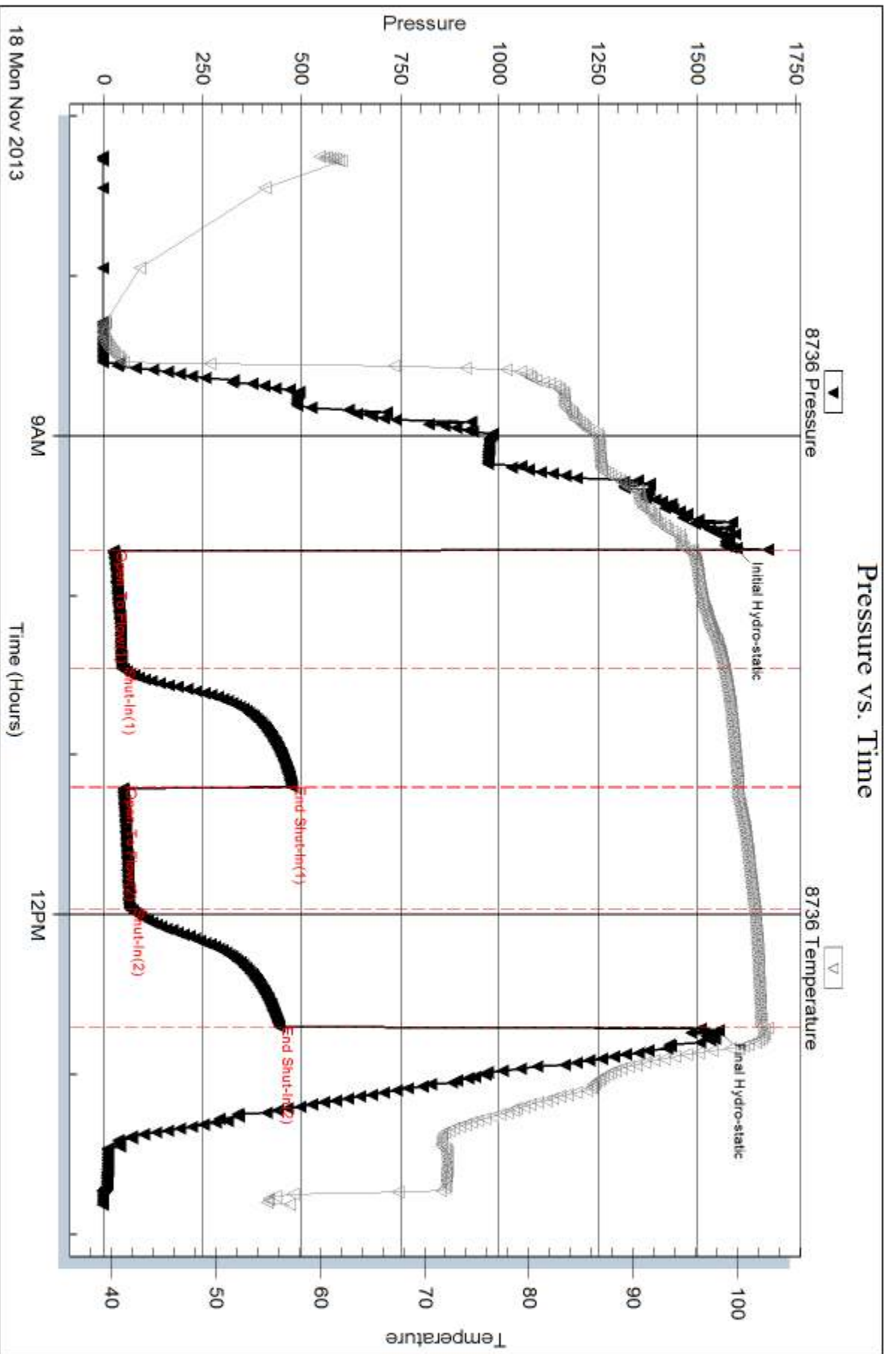
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	45000 ppm
Viscosity: 42.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5300.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	SOWCM 10%O 10%W 80%M	0.491
60.00	VSOWCM 2%O 20%W 78%M	0.842

Total Length: 95.00 ft Total Volume: 1.333 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



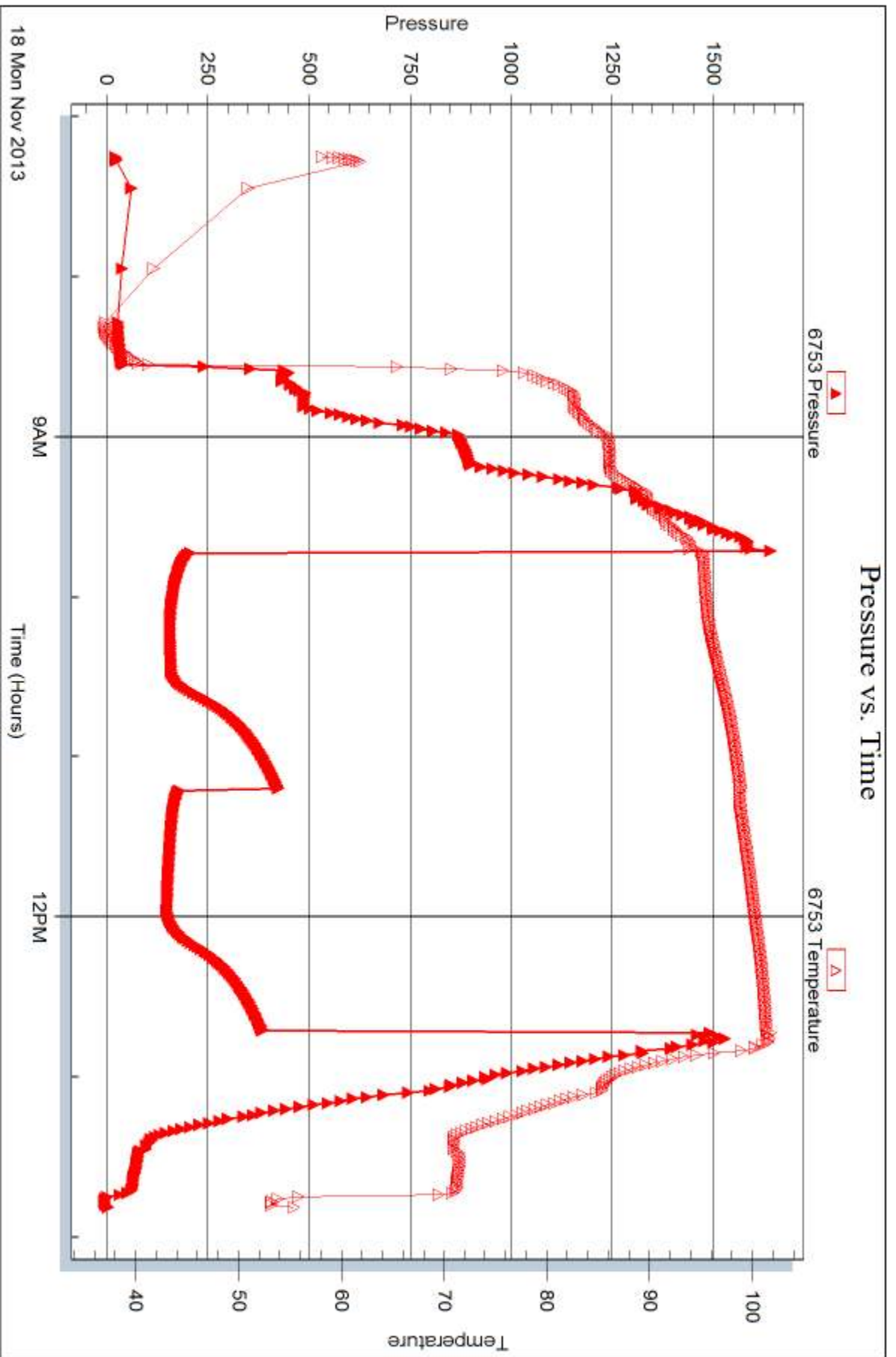
Serial #: 6753

Inside

TDI Inc.

Law rence #1

DST Test Number: 1



18 Mon Nov 2013

Tribble Testing, Inc

Ref. No: 55323

Printed: 2013.11.21 @ 11:18:33



DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Rd
Hays KS 67601

ATTN: Herb Deines

Lawrence #1

15-15s-19w Ellis,KS

Start Date: 2013.11.19 @ 12:15:00

End Date: 2013.11.19 @ 18:41:00

Job Ticket #: 55324 DST #: 2

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

Printed: 2013.11.21 @ 11:17:59



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI Inc.
1310 Bison Rd
Hays KS 67601
ATTN: Herb Deines

15-15s-19w Ellis,KS
Lawrence #1
Job Ticket: 55324 **DST#: 2**
Test Start: 2013.11.19 @ 12:15:00

Tool Information

Drill Pipe:	Length: 3630.00 ft	Diameter: 3.80 inches	Volume: 50.92 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	45000.00 lb
			<u>Total Volume: 50.92 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	35.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3616.00 ft			Final	41000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	24.00 ft				
Tool Length:	45.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3596.00	
Shut In Tool	5.00			3601.00	
Hydraulic tool	5.00			3606.00	
Packer	5.00			3611.00	21.00 Bottom Of Top Packer
Packer	5.00			3616.00	
Stubb	1.00			3617.00	
Perforations	20.00			3637.00	
Recorder	0.00	6753	Inside	3637.00	
Recorder	0.00	8736	Outside	3637.00	
Bullnose	3.00			3640.00	24.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc. **15-15s-19w Ellis,KS**
 1310 Bison Rd **Lawrence #1**
 Hays KS 67601 Job Ticket: 55324 **DST#: 2**
 ATTN: Herb Deines Test Start: 2013.11.19 @ 12:15:00

Mud and Cushion Information

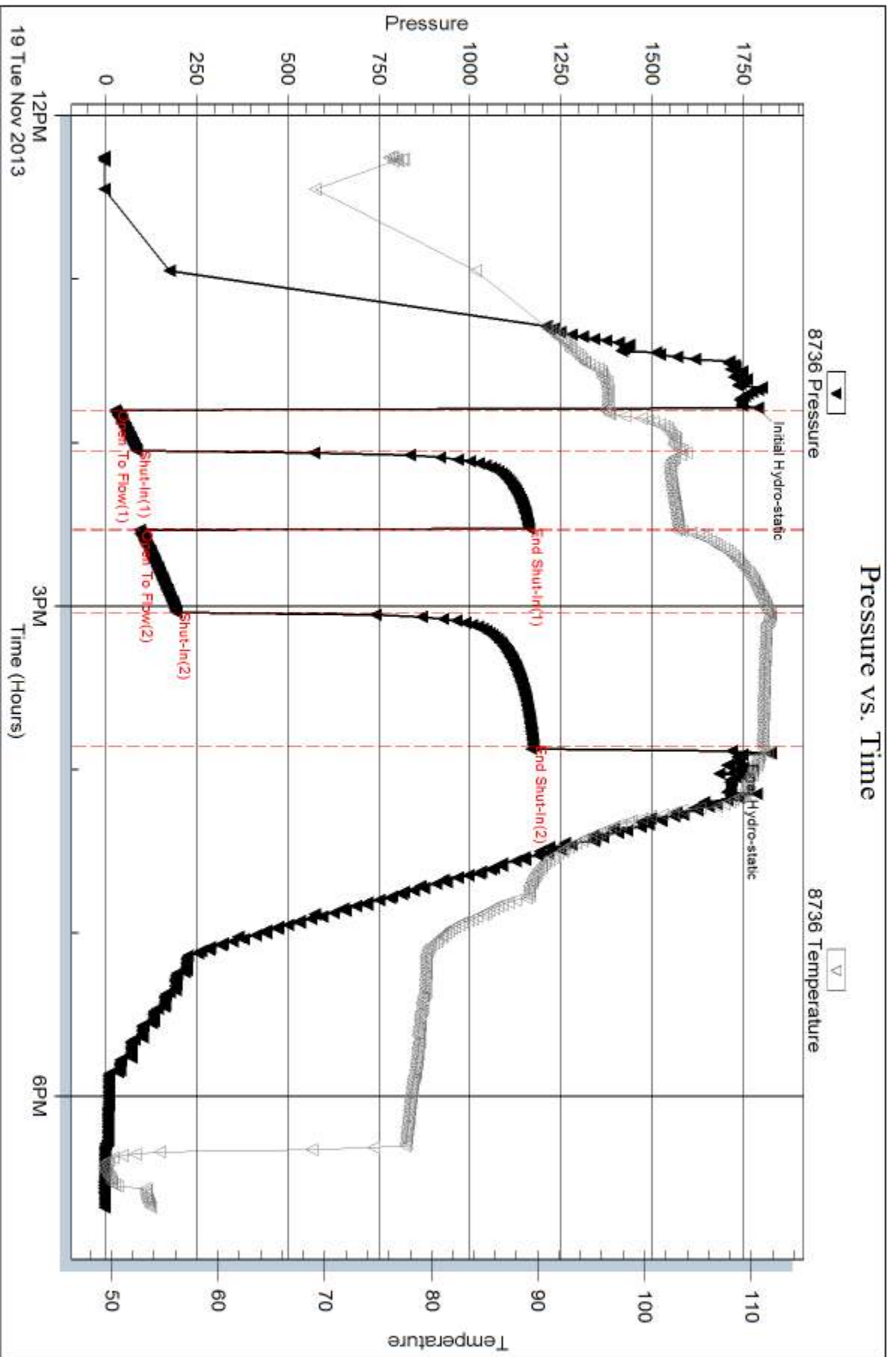
Mud Type: Gel Chem	Cushion Type:	Oil API: 26 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 32000 ppm
Viscosity: 42.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.77 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5300.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	VSOMCW 2%O 78%W 20%M	1.262
90.00	SWOCM 35%O 10%W 55%M	1.262
260.00	GO 25%G 75%O	3.647
0.00	120ft GIP	0.000

Total Length: 440.00 ft Total Volume: 6.171 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



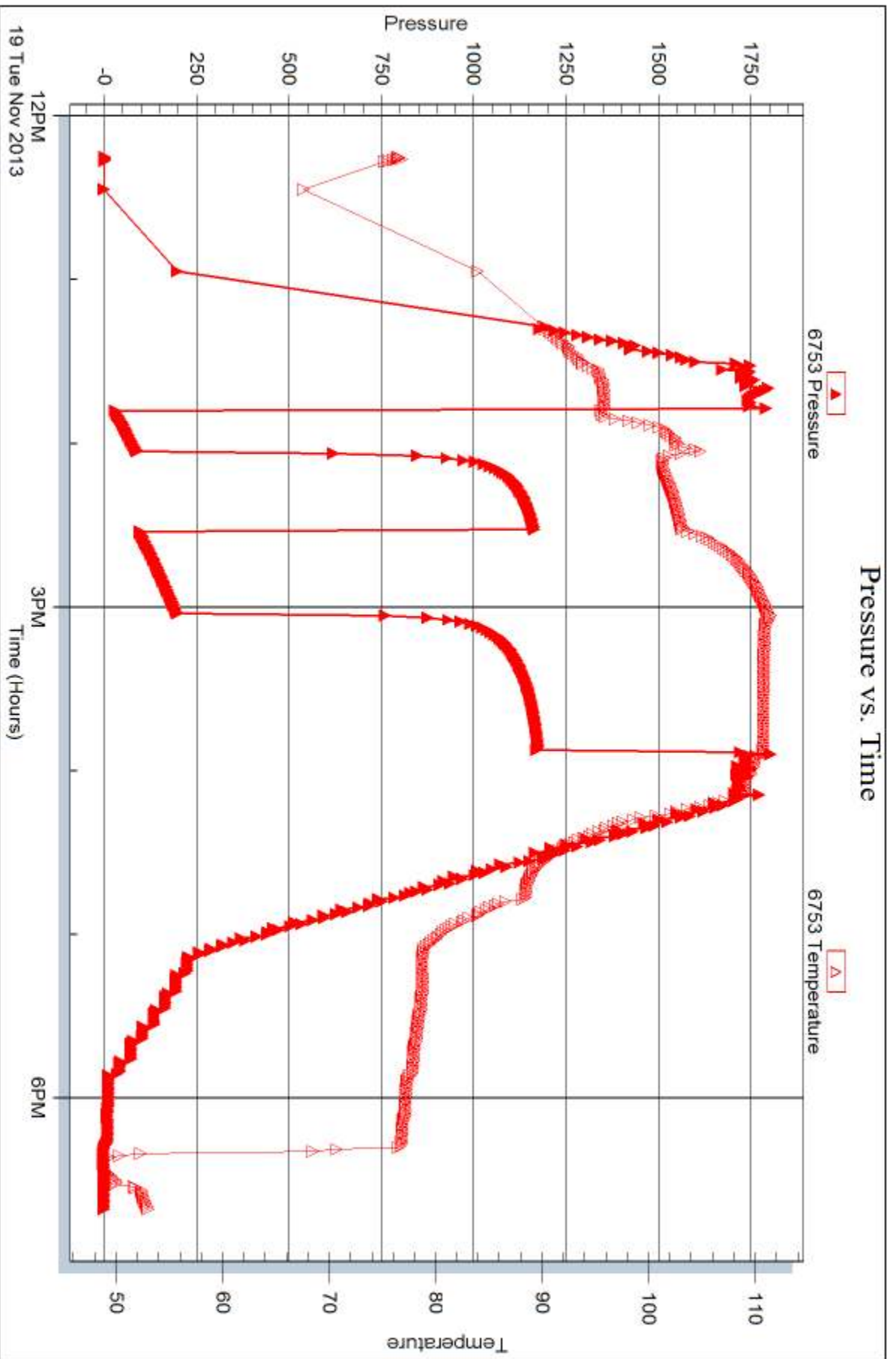
Serial #: 6753

Inside

TDI Inc.

Law rence #1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 55324

Printed: 2013.11.21 @ 11:18:02



DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Rd
Hays KS 67601

ATTN: Herb Deines

Lawrence #1

15-15s-19w Ellis,KS

Start Date: 2013.11.20 @ 07:05:00

End Date: 2013.11.20 @ 12:43:30

Job Ticket #: 55325 DST #: 3

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

Printed: 2013.11.21 @ 11:17:12

TDI Inc.
15-15s-19w Ellis,KS
Lawrence #1
DST # 3
KC "LJ"
2013.11.20



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TDI Inc.
1310 Bison Rd
Hays KS 67601
ATTN: Herb Deines

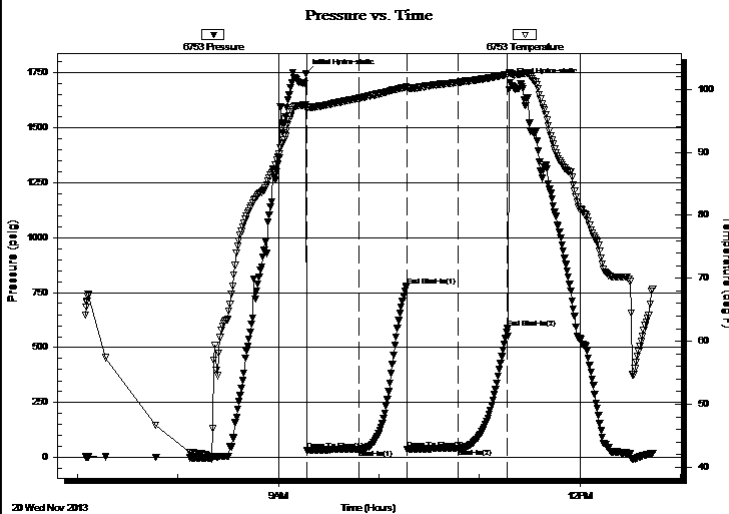
15-15s-19w Ellis,KS
Lawrence #1
Job Ticket: 55325 **DST#: 3**
Test Start: 2013.11.20 @ 07:05:00

GENERAL INFORMATION:

Formation: **KC "I-J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:17:00
 Time Test Ended: 12:43:30
 Interval: **3460.00 ft (KB) To 3508.00 ft (KB) (TVD)**
 Total Depth: 3508.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Reset)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 2022.00 ft (KB)
 2013.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6753 Outside
 Press@RunDepth: 41.77 psig @ 3504.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.20 End Date: 2013.11.20 Last Calib.: 2013.11.20
 Start Time: 07:05:05 End Time: 12:43:29 Time On Btm: 2013.11.20 @ 09:16:15
 Time Off Btm: 2013.11.20 @ 11:18:15

TEST COMMENT: IF-3" blow
 IS-No blow
 FF-4 1/2" blow
 FS-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1742.80	97.54	Initial Hydro-static
1	35.02	96.79	Open To Flow (1)
32	38.42	98.56	Shut-In(1)
61	781.38	100.43	End Shut-In(1)
61	38.57	100.19	Open To Flow (2)
91	41.77	101.09	Shut-In(2)
121	586.83	102.34	End Shut-In(2)
122	1703.58	102.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SWOCM 30%O 15%W 55%M	0.42
0.00	60ft GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI Inc.
1310 Bison Rd
Hays KS 67601
ATTN: Herb Deines

15-15s-19w Ellis,KS
Lawrence #1
Job Ticket: 55325 **DST#: 3**
Test Start: 2013.11.20 @ 07:05:00

Tool Information

Drill Pipe:	Length: 3468.00 ft	Diameter: 3.80 inches	Volume: 48.65 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 48.65 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3460.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	3508.00 ft				
Interval between Packers:	48.00 ft				
Tool Length:	299.00 ft				
Number of Packers:	3	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3441.00	
Shut In Tool	5.00			3446.00	
Hydraulic tool	5.00			3451.00	
Packer	4.00			3455.00	20.00 Bottom Of Top Packer
Packer	5.00			3460.00	
Stubb	1.00			3461.00	
Perforations	7.00			3468.00	
change Over Sub	1.00			3469.00	
Blank Spacing	32.00			3501.00	
change Over Sub	1.00			3502.00	
Perforations	2.00			3504.00	
Recorder	0.00	8736	Inside	3504.00	
Recorder	0.00	6753	Outside	3504.00	
Blank Off Sub	4.00			3508.00	48.00 Tool Interval
Packer	4.00			3512.00	
Stubb	1.00			3513.00	
Recorder	0.00	8319	Below	3513.00	
perforations	3.00			3516.00	
Change Over Sub	1.00			3517.00	
Blank Spacing	222.00			3739.00	231.00 Bottom Packers & Anchor

Total Tool Length: 299.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc. **15-15s-19w Ellis,KS**
 1310 Bison Rd **Lawrence #1**
 Hays KS 67601 Job Ticket: 55325 **DST#: 3**
 ATTN: Herb Deines Test Start: 2013.11.20 @ 07:05:00

Mud and Cushion Information

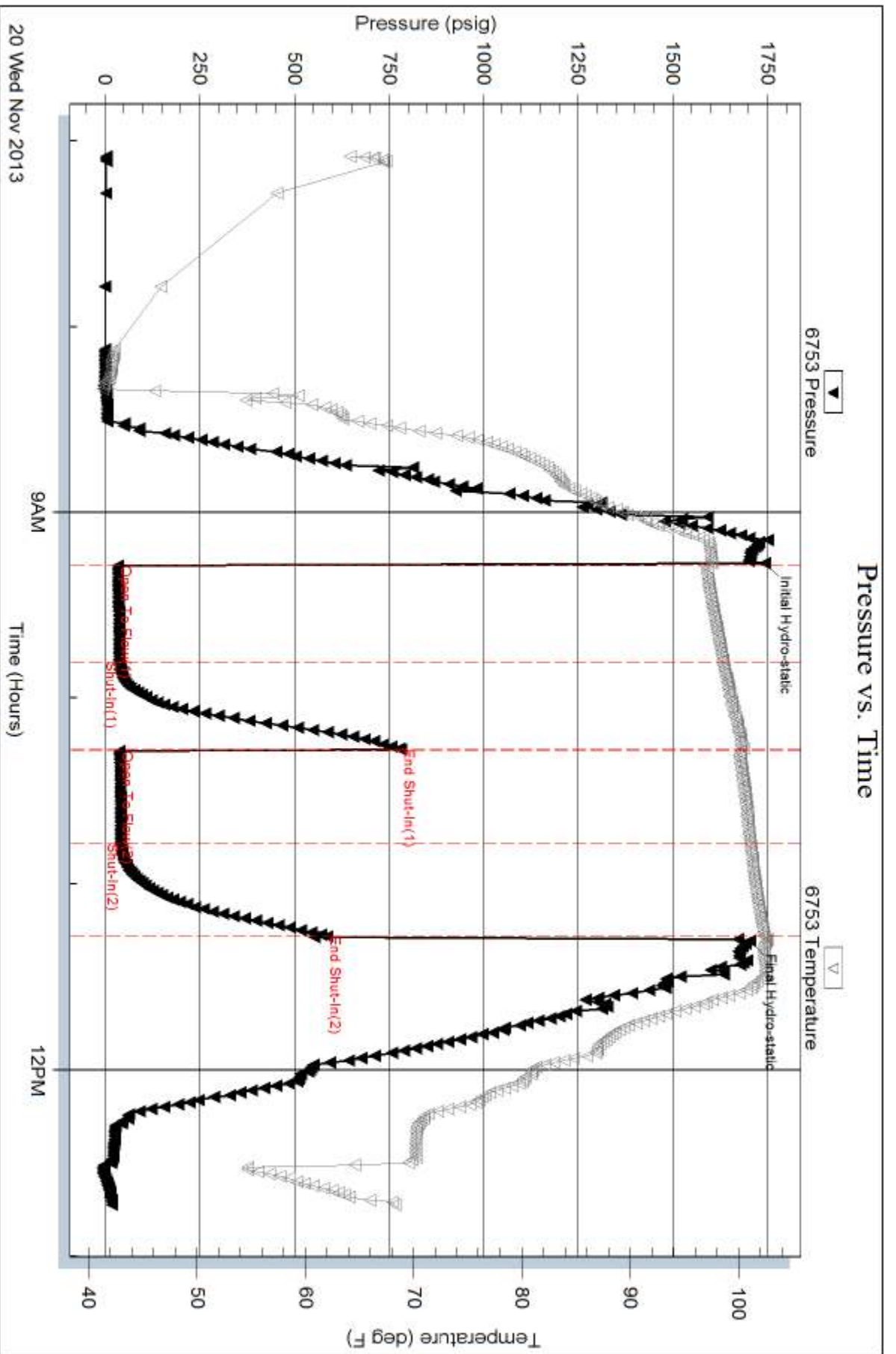
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 42.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5300.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SWOCM 30%O 15%W 55%M	0.421
0.00	60ft GIP	0.000

Total Length: 30.00 ft Total Volume: 0.421 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



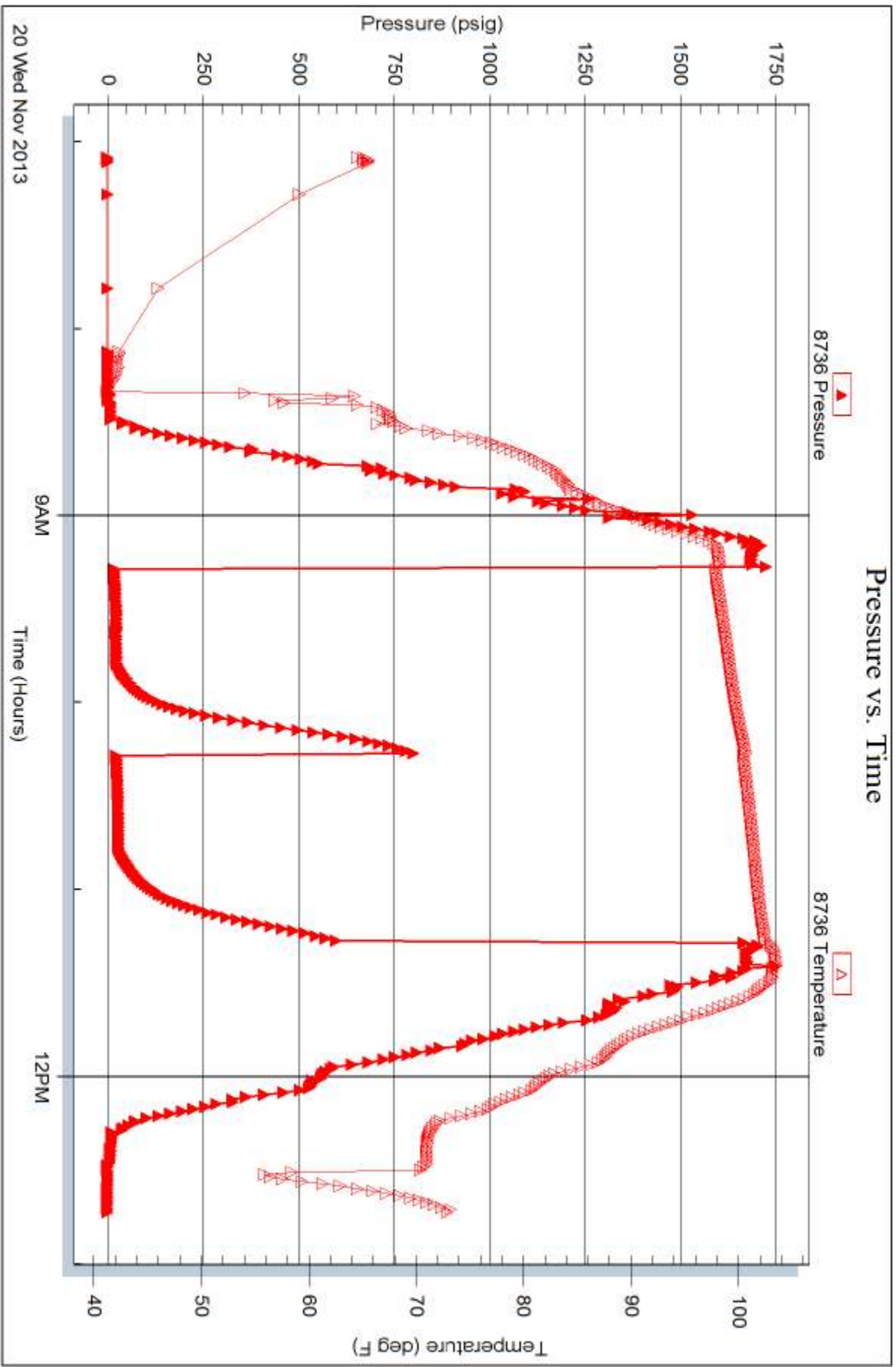
Serial #: 8736

Inside

TDI Inc.

Lawrence #1

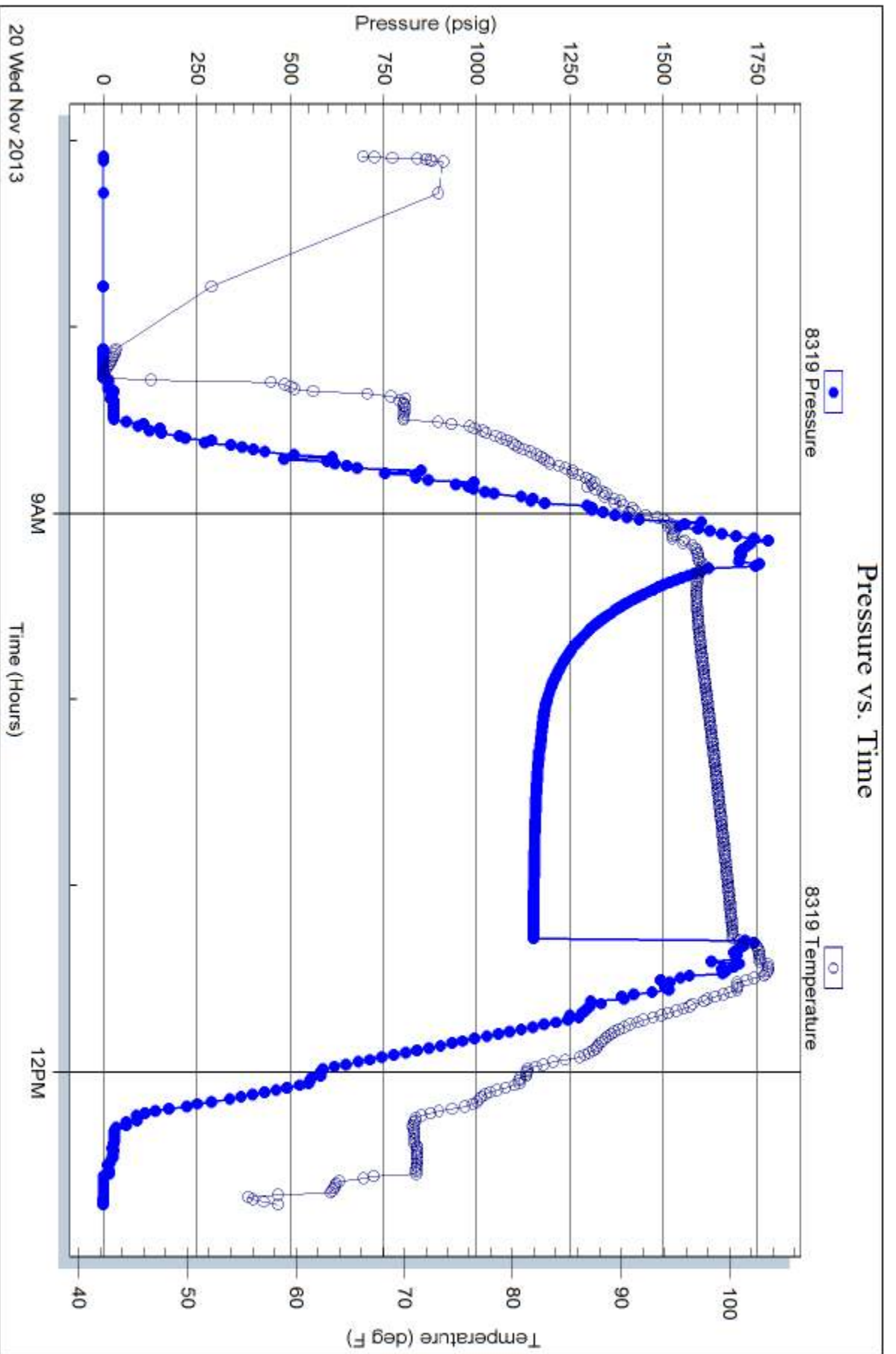
DST Test Number: 3

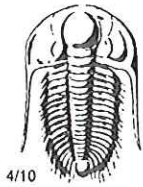


Trilobite Testing, Inc

Ref. No: 55325

Printed: 2013.11.21 @ 11:17:15





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55323

Well Name & No. Lawrence #1 Test No. 1 Date 11/18/13
 Company TPI Inc. Elevation 2022 KB 2013 GL
 Address 1310 Bison Rd Hays KS 67601
 Co. Rep / Geo. Herb Deines Rig Southwind #1
 Location: Sec. 15 Twp. 15 Rge. 19 Co. Flis State KS

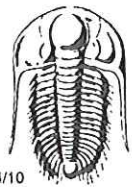
Interval Tested 3296 - 3344 Zone Tested Kellco
 Anchor Length 48 Drill Pipe Run _____ Mud Wt. 8.9
 Top Packer Depth 3291 Drill Collars Run _____ Vis 42
 Bottom Packer Depth 3296 Wt. Pipe Run _____ WL 7.8
 Total Depth 3344 Chlorides 5,300 ppm System LCM _____
 Blow Description 2F - 4 1/4 in blow
2SI - No blow
6F - 6 in blow
FSL - weak surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>50 WCM</u>	<u>10</u>	<u>10</u>	<u>80</u>	
<u>60</u>	<u>150 WCM</u>	<u>2</u>	<u>20</u>	<u>78</u>	
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 95 BHT 102 Gravity _____ API RW _____ @ 60° F Chlorides 45,000 ppm

(A) Initial Hydrostatic 1,599 Test 1150 T-On Location 6:55
 (B) First Initial Flow 25 Jars _____ T-Started ~~7:15~~ 7:15
 (C) First Final Flow 46 Safety Joint _____ T-Open 9:45
 (D) Initial Shut-In 476 Circ Sub _____ T-Pulled 12:45
 (E) Second Initial Flow 50 Hourly Standby _____ T-Out 13:50
 (F) Second Final Flow 89 Mileage 32rt 49.60 Comments _____
 (G) Final Shut-In 444 Sampler _____
 (H) Final Hydrostatic 1,535 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 45 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1199.60
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1199.60

Approved By _____ Our Representative Burdine
 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. 55324

Well Name & No. Lawrence #1 Test No. 2 Date 11/19/13
 Company TDF Inc. Elevation 2022 KB 2013 GL
 Address 1310 Bison Rd Hays KS 67601
 Co. Rep / Geo. Herb Zepeines Rig Seathwind #1
 Location: Sec. 15 Twp. 15 Rge. 19 Co. Ellis State KS

Interval Tested 3616 - 3640 Zone Tested gy Sand
 Anchor Length 24 Drill Pipe Run _____ Mud Wt. _____
 Top Packer Depth 3611 Drill Collars Run _____ Vis _____
 Bottom Packer Depth 3616 Wt. Pipe Run _____ WL _____
 Total Depth 3640 Chlorides _____ ppm System LCM _____

Blow Description RF - BOB in 5 1/2 min
FSI - 1 1/2 in blow
RF - BOB in 5 1/2 min
FSI - 1 3/4 in blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>VSO MCW</u>		<u>2</u>	<u>78</u>	<u>20</u>
<u>90</u>	<u>SWOCM</u>		<u>35</u>	<u>10</u>	<u>55</u>
<u>260</u>	<u>60</u>	<u>25</u>	<u>75</u>		
	<u>120 - 11 GIP</u>				

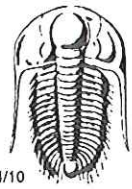
Rec Total 440 BHT 111 Gravity _____ API RW .3 @ 50 °F Chlorides 32,000 ppm

(A) Initial Hydrostatic 1,780 Test 1150 T-On Location 11:35
 (B) First Initial Flow 28 Jars _____ T-Started 12:15
 (C) First Final Flow 86 Safety Joint _____ T-Open 13:45
 (D) Initial Shut-In 1,163 Circ Sub _____ T-Pulled 15:45
 (E) Second Initial Flow 94 Hourly Standby _____ T-Out 18:35
 (F) Second Final Flow 196 Mileage 49.60 Comments _____
 (G) Final Shut-In 1,174 Sampler _____
 (H) Final Hydrostatic 1,718 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 15 Extra Packer _____ Extra Copies _____
 Initial Shut-In 30 Extra Recorder _____ Sub Total 0
 Final Flow 30 Day Standby _____ Total 1199.60
 Final Shut-In 45 Accessibility _____ MP/DST Disc't _____
 Sub Total 1199.60

Approved By _____ Our Representative Bruce

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. 55325

4/10

Well Name & No. Lawrence #1 Test No. 3 Date 11/20/13
 Company TRT Inc. Elevation 2022 KB 2013 GL
 Address 1310 Bison Rd Hays KS 67601
 Co. Rep / Geo. Herb Deines Rig Southwind #1
 Location: Sec. 65 Twp. 15 Rge. 19 Co. Ellis State KS

Interval Tested 3460 - 3508 Zone Tested KC 1, 5"
 Anchor Length 48 Drill Pipe Run _____ Mud Wt. _____
 Top Packer Depth 3455; 3460 Drill Collars Run _____ Vis _____
 Bottom Packer Depth 3508 Wt. Pipe Run _____ WL _____
 Total Depth 3735 Chlorides _____ ppm System LCM _____
 Blow Description FF - 3 in blow
FSI - No blow
FF - 4 1/2 in blow
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>SWOCM</u>	<u>30</u>	<u>15</u>	<u>55</u>	
<u>160</u>	<u>6000 GEL</u>				

Rec Total 30 BHT _____ Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 1743 Test 1150 T-On Location 6:30
 (B) First Initial Flow 35 Jars _____ T-Started 7:05
 (C) First Final Flow 38 Safety Joint _____ T-Open 9:13
 (D) Initial Shut-In 781 Circ Sub _____ T-Pulled 11:13
 (E) Second Initial Flow 39 Hourly Standby _____ T-Out 12:40
 (F) Second Final Flow 42 Mileage 49.60 Comments _____
 (G) Final Shut-In 587 Sampler _____
 (H) Final Hydrostatic 1704 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1799.60
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1799.60

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

Approved By _____ Our Representative Bruce 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.

OPERATOR

Company: TDI, INC
 Address: 1310 BISON ROAD
 HAYS, KANSAS 67601

Contact Geologist: TOM DENNING
 Contact Phone Nbr: 785-628-2593
 Well Name: LAWRENCE # 1
 Location: N2 NE SW NE Sec.15-15s-19w
 Pool: API: 15-051-26,633-00-00
 State: KANSAS Field: MARTINA NORTH
 Country: USA



Scale 1:240 Imperial

Well Name: LAWRENCE # 1
 Surface Location: N2 NE SW NE Sec.15-15s-19w
 Bottom Location:
 API: 15-051-26,633-00-00
 License Number: 4787
 Spud Date: 11/13/2013 Time: 3:15 PM
 Region: ELLIS COUNTY
 Drilling Completed: 11/20/2013 Time: 12:55 AM
 Surface Coordinates: 1575' FNL & 1650' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2012.00ft
 K.B. Elevation: 2022.00ft
 Logged Interval: 2900.00ft To: 3735.00ft
 Total Depth: 3735.00ft
 Formation: LANSING-KANSAS CITY
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -99.4174494 Latitude: 38.7504643
 N/S Co-ord: 1575' FNL
 E/W Co-ord: 1650' FEL

LOGGED BY

Company: SOLUTIONS CONSULTING, INC.
 Address: 108 W 35TH
 HAYS, KS 67601
 Phone Nbr: (785) 639-1337
 Logged By: Geologist Name: HERB DEINES

CONTRACTOR

Contractor: SOUTHWIND DRILLING, INC.
 Rig #: 1
 Rig Type: MUD ROTARY
 Spud Date: 11/13/2013 Time: 3:15 PM
 TD Date: 11/20/2013 Time: 12:55 AM
 Rig Release: 11/21/2013 Time: 2:00 AM

ELEVATIONS

K.B. Elevation: 2022.00ft Ground Elevation: 2012.00ft
 K.B. to Ground: 10.00ft

NOTES

RECOMMENDATION TO RUN PRODUCTION CASING BASED ON POSITIVE RESULTS OF CONGLOMERATE SAND DRILL STEM TEST.

OPEN HOLE LOGGING BY PIONEER ENERGY SERVICES: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG, MICRORESISTIVITY LOG

DRILL STEM TESTING BY TRILOBITE TESTING INC: TWO (2) CONVENTIONAL TESTS AND ONE (1) STRADDLE TEST

FORMATION TOPS SUMMARY AND CHRONOLOGY OF DAILY ACTIVITY

LAWRENCE # 1
N2 NE SW NE
SEC.15-15S-19W
2012'GL 2022'KB

LARRY # 1
N2 NE SE NE
SEC.15-15S-19W

<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>LOG TOPS</u>	<u>COMPARISON</u>
Anhydrite	1225 +797	1228 +794	+ 801
B-Anhydrite	1266 +756	1266 +756	+ 765



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TDI Inc.

15-15-19, Ellis, KS

1310 Bison Rd
Hays KS 67601

Lawrence #1

Job Ticket: 55324

DST#: 2

ATTN: Herb Deines

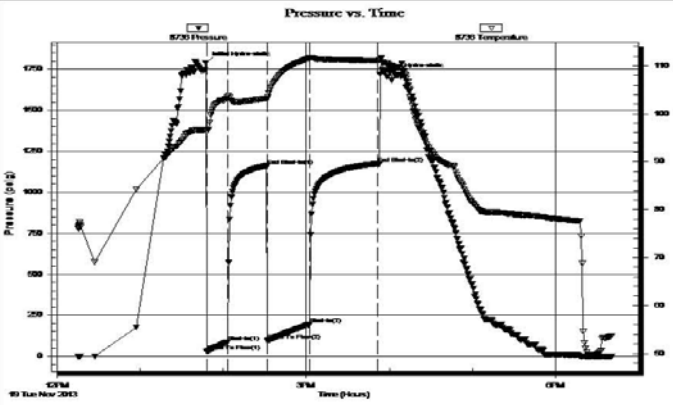
Test Start: 2013.11.19 @ 12:15:00

GENERAL INFORMATION:

Formation: **Cong. Sd.**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 13:48:00
 Tester: Brett Dickinson
 Time Test Ended: 18:41:00
 Unit No: 59
 Interval: **3616.00 ft (KB) To 3640.00 ft (KB) (TVD)**
 Reference Elevations: 2022.00 ft (KB)
 Total Depth: 3640.00 ft (KB) (TVD)
 2013.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 9.00 ft

Serial #: 8736 Outside
 Press@RunDepth: 195.67 psig @ 3637.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.19 End Date: 2013.11.19 Last Calib.: 2013.11.19
 Start Time: 12:15:05 End Time: 18:40:59 Time On Btm: 2013.11.19 @ 13:47:15
 Time Off Btm: 2013.11.19 @ 15:53:15

TEST COMMENT: IF-BOB in 5 1/2min
 ISI-1 1/2in blow
 FF-BOB in 5 1/2min
 FSI-1 3/4in blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1789.84	96.60	Initial Hydro-static
1	28.16	96.32	Open To Flow (1)
16	86.32	103.44	Shut-In(1)
45	1162.75	103.23	End Shut-In(1)
45	93.87	103.01	Open To Flow (2)
75	195.67	111.61	Shut-In(2)
125	1174.40	111.12	End Shut-In(2)
126	1718.34	111.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	V SOMCW 2%O 78%W 20%M	1.26
90.00	SWOCM 35%O 10%W 55%M	1.26
260.00	GO 25%G 75%O	3.65
0.00	120ft GIP	0.00

Gas Rates

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

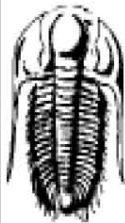
* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 55324

Printed: 2013.11.19 @ 21:21:16

DST # 3 STRADDLE TEST SUMMARY "I" AND "J" LKC BOTTOM PACKER HELD



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TDI Inc.

15-15-19, Ellis, KS

1310 Bison Rd
Hays KS 67601

Lawrence #1

Job Ticket: 55325

DST#: 3

ATTN: Herb Deines

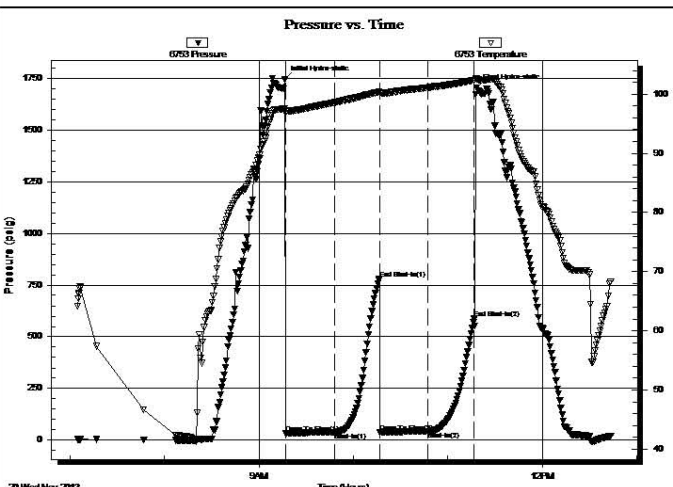
Test Start: 2013.11.20 @ 07:05:00

GENERAL INFORMATION:

Formation: **KC "I-J"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Straddle (Reset)
 Time Tool Opened: 09:17:00
 Tester: Brett Dickinson
 Time Test Ended: 12:43:30
 Unit No: 59
 Interval: **3460.00 ft (KB) To 3508.00 ft (KB) (TVD)**
 Reference Elevations: 2022.00 ft (KB)
 Total Depth: 3508.00 ft (KB) (TVD)
 2013.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 9.00 ft

Serial #: 6753 Outside
 Press@RunDepth: 41.77 psig @ 3504.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.20 End Date: 2013.11.20 Last Calib.: 2013.11.20
 Start Time: 07:05:05 End Time: 12:43:29 Time On Btm: 2013.11.20 @ 09:16:15
 Time Off Btm: 2013.11.20 @ 11:18:15

TEST COMMENT: IF-3in blow
 ISI-No blow
 FF-4 1/2in blow
 FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1742.80	97.54	Initial Hydro-static
1	35.02	96.79	Open To Flow (1)
32	38.42	98.56	Shut-In(1)
61	781.38	100.43	End Shut-In(1)
61	38.57	100.19	Open To Flow (2)
91	41.77	101.09	Shut-In(2)
121	586.83	102.34	End Shut-In(2)
122	1703.58	102.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
-------------	-------------	--------------

Gas Rates

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

30.00	SWDCM 30%O 15%W 55%M	0.42
0.00	60ft GIP	0.00

* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 55325

Printed: 2013.11.20 @ 13:31:25

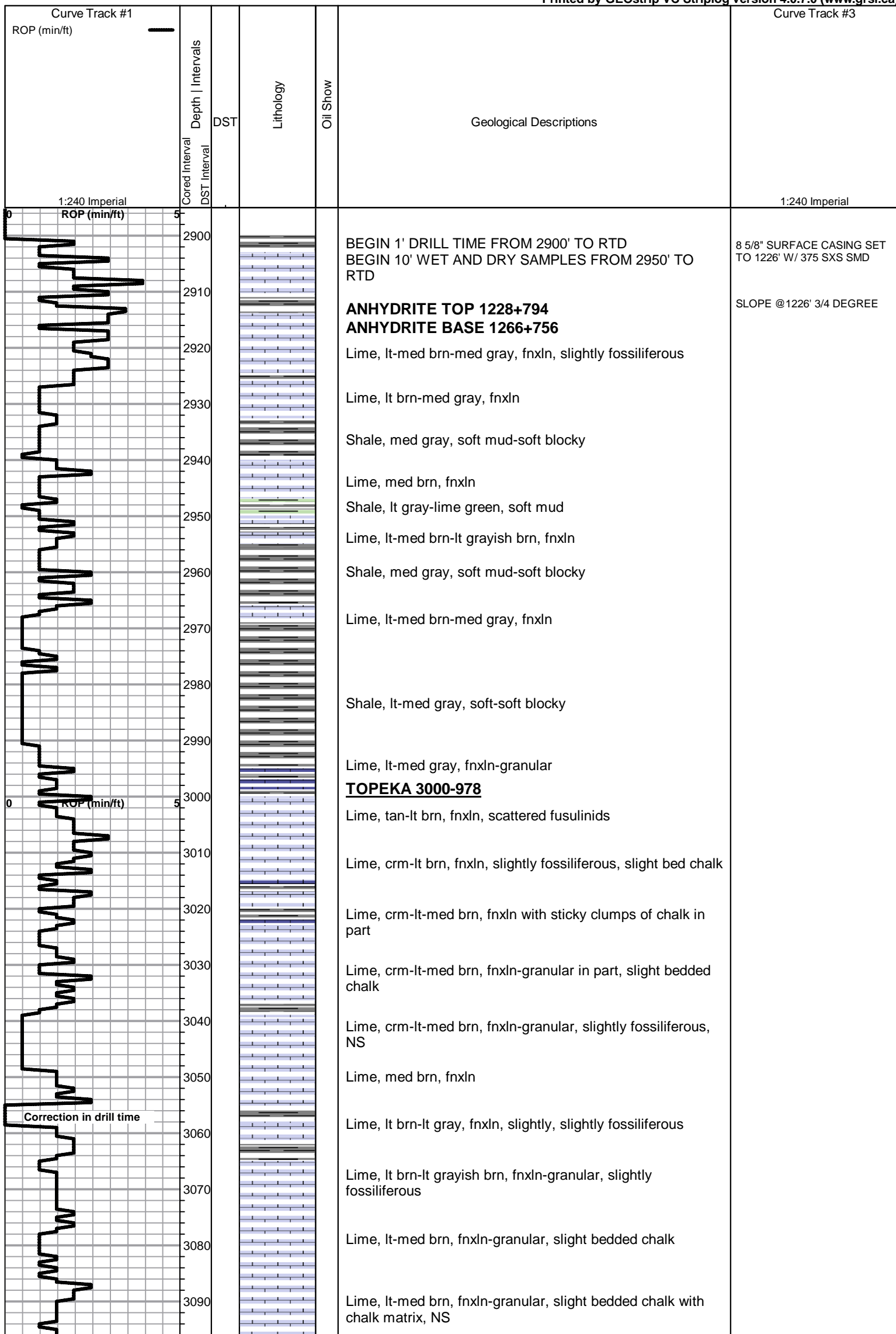
ROCK TYPES

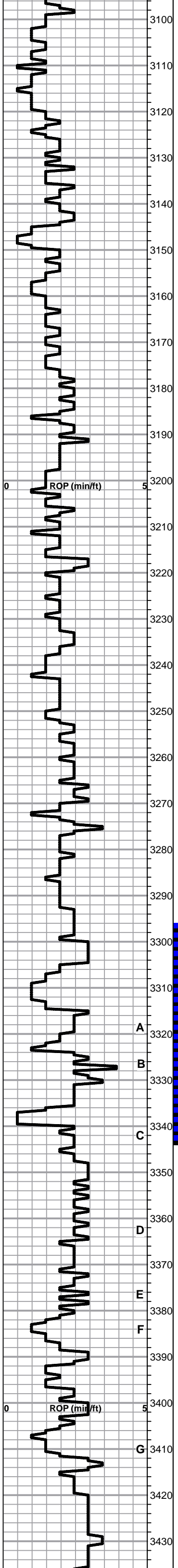
Cht vari	Dol Lime	Lscongl	Carbon Sh	Ss
Clystgy	Lmst fw<7	shale, grn	shale, red	CglSandy
Dolprim	Lmst fw>7	shale, gry	Shcol	

ACCESSORIES

MINERAL	FOSSIL
Glauconite	Oomoldic
Pyrite	
Sandy	
Varicolored chert	
Chert White	

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)





Lime, lt-med brn, fnxln-granular, slight bedded chalk

Lime, lt brn, granular, chalk with sticky clumps in part

Shale, gray-black carbonaceous
Lime, med brn, fn-vfxln

Shale, lt-med gray, soft blocky, calcareous in part

Lime, lt brn, fnxln, bedded chalk

Lime, crm-lt brn, fnxln-granular, bedded chalk with scattered clumps of sticky chalk, NS

Lime, lt brn-lt gray, fn-vfxln, slight bedded chalk

Lime, lt brn-lt gray, fnxln, slight bedded chalk

Lime, lt brn-lt gray, fn-vfxln, slight bedded chalk

Shale, gray-black carbonaceous

Lime, lt brn, fn-vfxln, bedded chalk in part

Lime, tan-lt brn, fnxln-granular, bedded chalk, NS

Lime, lt brn, fnxln-granular, bedded chalk

Lime, lt brn, fnxln, bedded chalk in part

Lime, crm-lt brn, fnxln, soft on crush, lt chalk matrix, slightly fossiliferous

Lime, lt brn, fnxln

Lime, lt brn, fnxln, slight bedded chalk

HEEBNER SHALE 3269-1247
Shale, black carbonaceous, fissile, blocky
Lime, med brn, vfxln-micro xln

Shale, lime green, soft mud-soft blocky

TORONTO 3289-1267
Lime, white, fn-vf xln, hard bedded chalk, 1 chip fossiliferous with trace of stain, NFO, No Odor

Lime, crm, fnxln, bedded chalk, NS

Shale, reddish brn, soft blocky

LKC 3316-1294
Lime, med brn, fnxln

Lime, lt-med brn, fn-micro xln
Shale, lt gray, soft blocky

Lime, lt brn, oolmoldic, lt spotted staining, MSFO, very lt odor

Lime, crm-tan, fnxln, bedded chalk

Lime, crm-tan, fnxln, bedded chalk, NS

Lime, crm, mostly fnxln, bedded chalk, few chips with spotty staining, NFO, No Odor

Shale, gray-black carbonaceous, firm blocky
Lime, lt gray, fnxln

Lime, crm-tan, fnxln, bedded chalk, slight fossiliferous, NS

Lime, crm-tan, fnxln, bedded chalk with white chert, fresh, sharp

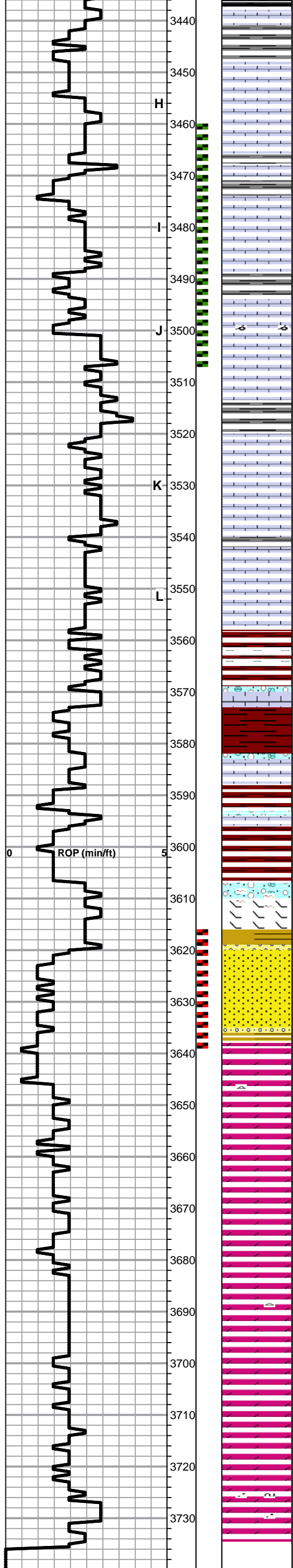
Lime, crm-tan, fnxln, bedded chalk, NS

Lime, crm-tan, fn-micro xln, bedded chalk

Lime, crm-lt brn, fn-micro xln, slight bedded chalk

Lime, med brn-med gray, fn-vfxln

DST # 1 3296' TO 3344' SEE
HEADER FOR TEST
SUMMARY



Lime, med brn-med gray, fnxln, slightly fossiliferous

Lime, lt-med brn, fnxln-granular, slight bedded chalk, NS

Lime, crm-tan, fn-vfxln, slight bedded chalk

Shale, med grayish green, soft blocky

Lime, crm, fnxln with spotty staining in slightly oomoldic, fossiliferous lime with scattered vuggy porosity, floating specks of oil in tray

Lime, crm-tan, fnxln

Lime, crm, fnxln with scattered oomoldic chips, barren of staining, NFO, No Odor

Lime, crm, fnxln, bedded chalk

Lime, crm-tan, fn-vfxln, bedded chalk

Shale, grayish green, soft blocky

Lime, crm-lt brn, fnxln, bedded chalk, NS

Lime, crm-tan, fn-vfxln, bedded chalk

Lime, crm-tan-lt brn, fn-micro xln

Lime, crm-lt brn-tan, fn-vfxln, slight bedded chalk, NS

Lime, tan, fn-micro xln

BKC 3558-1536

Shale, reddish brn, firm blocky with red chert nodules

Lime, crm-tan, vfxln

Shale, reddish brn-maroon, soft blocky

Lime, crm-lt brn, fn-micro xln, slight bedded chalk

Shale, reds, brns, maroon, soft blocky

Shale, reds, brn, maroon, lt red wash, soft mud-soft blocky

MARMATON 3610-1588

Lime, crm-lt brn, fn-vfxln, dolomitic, orange-tan chert

CONGLOMERATE SAND 3620-1598

Shale vari colored grading into cemented sandstone cleaning up with depth. Sandstone-poor to fair sorting, subangular, lt dolomitic cementing, saturated stain, very lite odor, friable sand clusters

ARBUCKLE 3638-1616

Dolomite, crm, granular, sucrosic with dead oil flakes in interxln porosity

Dolomite, ivory-crm, fnxln-hard granular

Dolomite, crm, fnxln-granular

Dolomite, crm, fnxln-granular with some cxln in part

Dolomite, crm, fnxln-granular, few chips of pale gray-pale green, soft blocky shale

Dolomite, crm, fnxln-granular

Dolomite, ivory-crm, fnxln-granular

Dolomite, ivory-crm, fnxln-granular

Dolomite, crm, fnxln-granular with specks of glauconite and quartz grain inclusions

RTD 3735-1713 LTD 3736-1714

DST STRADDLE TEST 3460' TO 3508' SEE HEADER FOR TEST SUMMARY

DST # 2 3616' TO 3640' SEE HEADER FOR TEST SUMMARY

5 1/2" 14# PRODUCTION CASING SET TO 3733' W/ 135 SXS EA2, RATHOLE W/ 30 SXS MOUSEHOLE W/ 15 SXS SWIFT TICKET #25191 PLUG DOWN 1:45AM 11-21-2013

JOB LOG

SWIFT Services, Inc.

DATE 11-14-13 PAGE NO.

CUSTOMER		WELL NO.	LEASE	JOB TYPE		TICKET NO.		
TOI		1	Lawrence	5 7/8 Deep Surface		25236		
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1520							on location
								TD 1227 55 25
								TP 1225 Insert 12.00
								Centralizers 1, 3, 14
	1720							Start Pipe Stacked out won't go down
	1820							Trip in hole w/Bit finish Running casing 2100
	2300							Break circulation
	2325	5	12		✓	20		Start Mud flush
	2330	5	55		✓	100		Start Cement 100 sks @ 11.2 ^{lb} /gal
		5	38		✓	200		100 sks @ 12.5 ^{lb} /gal
		5	31		✓	200		100 sks @ 13.5 ^{lb} /gal
		5	20		✓	200		75 sks @ 14.5 ^{lb} /gal
	0025							Drop Plug
	0036	5			✓			Start Displacement
		5	35			200		Circulate cement
	0025		76.3		✓	400/500		Land Plug
	0030							Close In
	0100							Wash up Pack up Job Complete Thank You Josh, Brian, Rob

JOB LOG

SWIFT Services, Inc.

DATE 11-20-13 PAGE NO. 7

CUSTOMER TDI WELL NO. #1 LEASE Lawrence JOB TYPE Cement Lining TICKET NO. 25191

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1900					14" #1	5 1/2"	TD 3735 On loc - F.E RIS LD, D.P
	2000							Change over
	2140							Start casing to 3734'
								Insert Float Valve / Fill up
								Latex Down Battle - S.J. 4" @ 3692'
								Cent 1-3-87-6-8-11-12-14
								Cut Buckets Prod 3-6-15
								Drop Ball with out
	2300							Fin casing - Wash down 6'
11/20	2330							St. CIR + Rotate
11/21	2010							Fin CIR - CIR Desc in
	0100							Fin Desc CIR
			4/4					Plug RH-MH 30/15 cut
		5	12				300	Pump 570 gal Mud flush
		6	20				350	Pump 20 BBI KCL flush
		4					320	Start 430 SKS EM-2 cut
							400	Fin cut - Wash cut Pump Lines
								Drop L.D. Plug
		9					400	Start Displ
		8					450	Cement Kill - Slowly gradually
	0140	6					500	Plug Down - Hold - Release & Hold
	0145	5					750	Job Complete
								Washup & Pickup Tite
								Wicks Hon, Tom & Craig
	0215							