Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1209690

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 # 4787
Name: TDI, Inc.
Address 1: 1310 BISON RD
Address 2:
City: HAYS State: KS Zip: 67601 + 9696
Contact Person: Tom Denning
Phone: (785) 628-2593
CONTRACTOR: License # 33350
Name: Southwind Drilling, Inc.
Wellsite Geologist: Herb Deines
Purchaser: Coffeyville Resources

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 #:

4/30/2014	5/6/2014	6/19/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-163-24200-00-00
Spot Description:
SW NW SE SW Sec. 10 Twp. 10 S. R. 17 ☐ East ☑ West
916 Feet from ☐ North / ☑ South Line of Section
1617 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Rooks
Lease Name: Stephanie Well #: 1
Field Name: Unnamed
Producing Formation: Kansas City
Elevation: Ground: 2012 Kelly Bushing: 2022
Total Vertical Depth: 3646 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 223 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 1251 Feet
If Alternate II completion, cement circulated from: 1251
feet depth to: 0 w/ 155 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 22000 ppm Fluid volume: 750 bbls
Dewatering method used: Evaporated
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: 07/10/2014
☑ **Confidential Release Date:** 07/09/2016
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 07/10/2014

[redacted] 1209690

Operator Name: TDI, Inc. Lease Name: Stephanie Well #: 1

Sec. 10 Twp. 10 S. R. 17 ☐ East ☑ West County: Rooks

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Dual Induction Log
Dual Compensated Porosity Log
Microresistivity Log

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Anhydrite	1286'	+736'
Topeka	2932'	-910'
Heebner	3154'	-1132'
Lansing/Kansas City	3194'	-1172'
Base Kansas City	3436'	-1414'
Arbuckle	3500'	-1478'

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	20	223	Common	150	2% gel, 3% cc
Production	7.875	5.5	14	3635	EA-2	150	10% salt, 5% flo-seal

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☑ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	0-1251	SMD	155	10% salt, 5% flo-seal
	-			

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
Attached	Attached	Attached	Attached

TUBING RECORD: Size: 2.875 Set At: Packer At: Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 7/1/2014

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:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:
Kansas City

Form	ACO1 - Well Completion
Operator	TDI, Inc.
Well Name	Stephanie 1
Doc ID	1209690

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3423'-3426'	250 gals., 15%	
4	3343'-3346'	250 gals., 15%	
4	3296'-3300'	250 gals., 15% & 1000 gals., 20%	
4	3250'-3255'	250 gals., 15% & 2250 gals., 20%	
4	3233'-3236'	250 gals.,15%	
4	3196'-3198'	250 gals., 15%	

Form	ACO1 - Well Completion
Operator	TDI, Inc.
Well Name	Stephanie 1
Doc ID	1209690

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	20	223	Common	150	2% gel, 3% cc
Production	7.875	5.5	14	3635	EA-2	150	10% salt, 5% flo-seal

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

1310 Bison Rd
Hays KS 67601

ATTN: Herb Deines

Stephanie #1

10-10s-17w Rooks KS

Start Date: 2014.05.04 @ 17:43:00

End Date: 2014.05.05 @ 00:43:45

Job Ticket #: 54038 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.05.06 @ 14:34:19

DRILL STEM TEST REPORT

TDI Inc

1310 Bison Rd
Hays KS 67601

ATTN: Herb Deines

10-10s-17w Rooks KS

Stephanie #1

Job Ticket: 54038 **DST#: 1**

Test Start: 2014.05.04 @ 17:43:00

GENERAL INFORMATION:

Formation: **Toronto - LKC D**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:38:00
Time Test Ended: 00:43:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Cody Bloedorn
Unit No: 73

Interval: 3152.00 ft (KB) To 3270.00 ft (KB) (TVD)
Total Depth: 3270.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

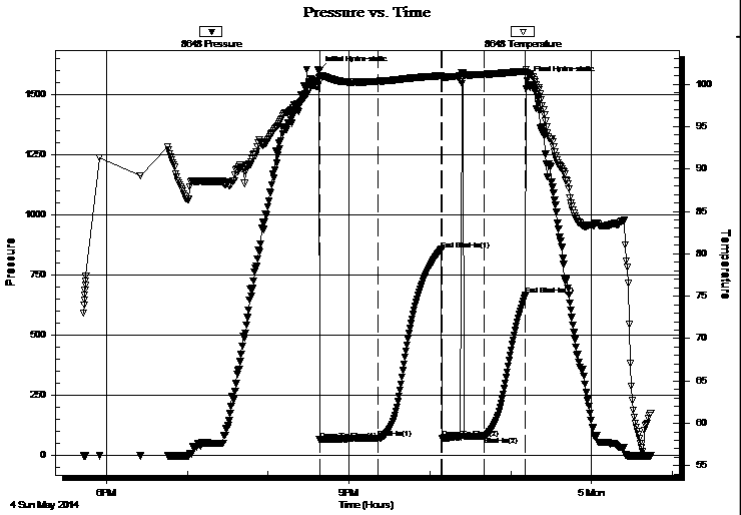
Reference Elevations: 2022.00 ft (KB)
2012.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8648 **Inside**

Press@RunDepth: 80.96 psig @ 3258.00 ft (KB)
Start Date: 2014.05.04 End Date: 2014.05.05
Start Time: 17:43:05 End Time: 00:43:44

Capacity: 8000.00 psig
Last Calib.: 2014.05.05
Time On Btm: 2014.05.04 @ 20:37:45
Time Off Btm: 2014.05.04 @ 23:12:00

TEST COMMENT: 45 - IF- 1 1/2" blow
45 - ISI- No return
30 - FF- No blow for 15 minutes, flushed tool, w eak return fading in and out
30 - FSI- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1600.95	100.75	Initial Hydro-static
1	65.15	100.28	Open To Flow (1)
44	72.11	100.33	Shut-In(1)
91	856.87	100.98	End Shut-In(1)
92	72.54	100.79	Open To Flow (2)
123	80.96	101.16	Shut-In(2)
154	667.91	101.51	End Shut-In(2)
155	1558.85	101.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	VSOCM, 1%O, 99%M	0.56

Gas Rates

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

DRILL STEM TEST REPORT

TDI Inc

1310 Bison Rd
Hays KS 67601

ATTN: Herb Deines

10-10s-17w Rooks KS

Stephanie #1

Job Ticket: 54038 **DST#: 1**

Test Start: 2014.05.04 @ 17:43:00

GENERAL INFORMATION:

Formation: **Toronto - LKC D**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:38:00
Time Test Ended: 00:43:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Cody Bloedorn
Unit No: 73

Interval: 3152.00 ft (KB) To 3270.00 ft (KB) (TVD)
Total Depth: 3270.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

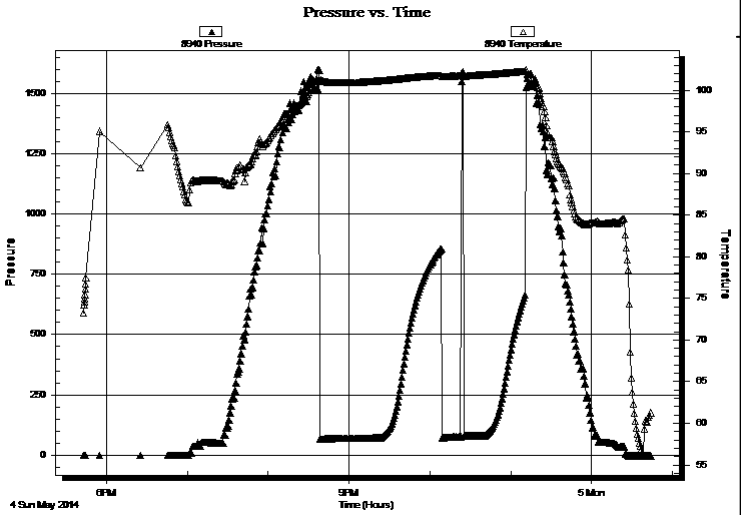
Reference Elevations: 2022.00 ft (KB)
2012.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8940 **Outside**

Press@RunDepth: psig @ 3258.00 ft (KB)
Start Date: 2014.05.04 End Date: 2014.05.05
Start Time: 17:43:05 End Time: 00:43:44

Capacity: 8000.00 psig
Last Calib.: 2014.05.05
Time On Btm:
Time Off Btm:

TEST COMMENT: 45 - IF- 1 1/2" blow
45 - ISI- No return
30 - FF- No blow for 15 minutes, flushed tool, w eak return fading in and out
30 - FSI- No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
40.00	VSOCM, 1%O, 99%M	0.56

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI Inc

1310 Bison Rd
Hays KS 67601

ATTN: Herb Deines

10-10s-17w Rooks KS

Stephanie #1

Job Ticket: 54038 **DST#: 1**

Test Start: 2014.05.04 @ 17:43:00

Tool Information

Drill Pipe:	Length:	3156.00 ft	Diameter:	3.80 inches	Volume:	44.27 bbl	Tool Weight:		2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		30000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:		49000.00 lb
					Total Volume:	44.27 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		25.00 ft					String Weight:	Initial	45000.00 lb
Depth to Top Packer:		3152.00 ft						Final	45000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		118.00 ft							
Tool Length:		139.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3132.00		
Shut In Tool	5.00			3137.00		
Hydraulic tool	5.00			3142.00		
Packer	5.00			3147.00	21.00	Bottom Of Top Packer
Packer	5.00			3152.00		
Stubb	1.00			3153.00		
Perforations	10.00			3163.00		
Change Over Sub	1.00			3164.00		
Drill Pipe	93.00			3257.00		
Change Over Sub	1.00			3258.00		
Recorder	0.00	8648	Inside	3258.00		
Recorder	0.00	8940	Outside	3258.00		
Perforations	9.00			3267.00		
Bullnose	3.00			3270.00	118.00	Bottom Packers & Anchor
Total Tool Length:	**139.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc

1310 Bison Rd
Hays KS 67601

ATTN: Herb Deines

10-10s-17w Rooks KS

Stephanie #1

Job Ticket: 54038 **DST#: 1**

Test Start: 2014.05.04 @ 17:43:00

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:	57.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.39 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2500.00 ppm				
Filter Cake:	3.00 inches				

Recovery Information

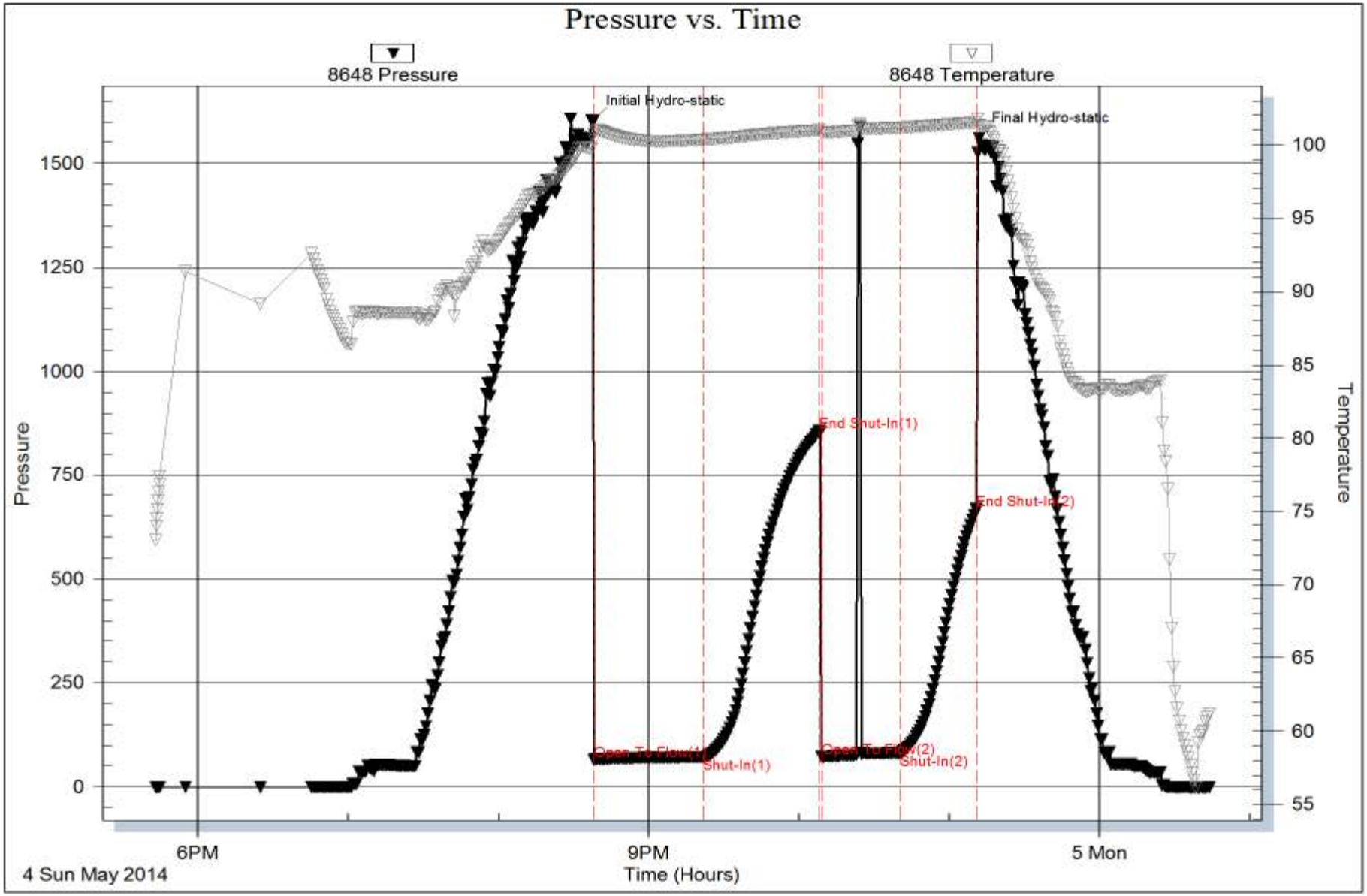
Recovery Table

Length ft	Description	Volume bbl
40.00	VSOCM, 1%O, 99%M	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl

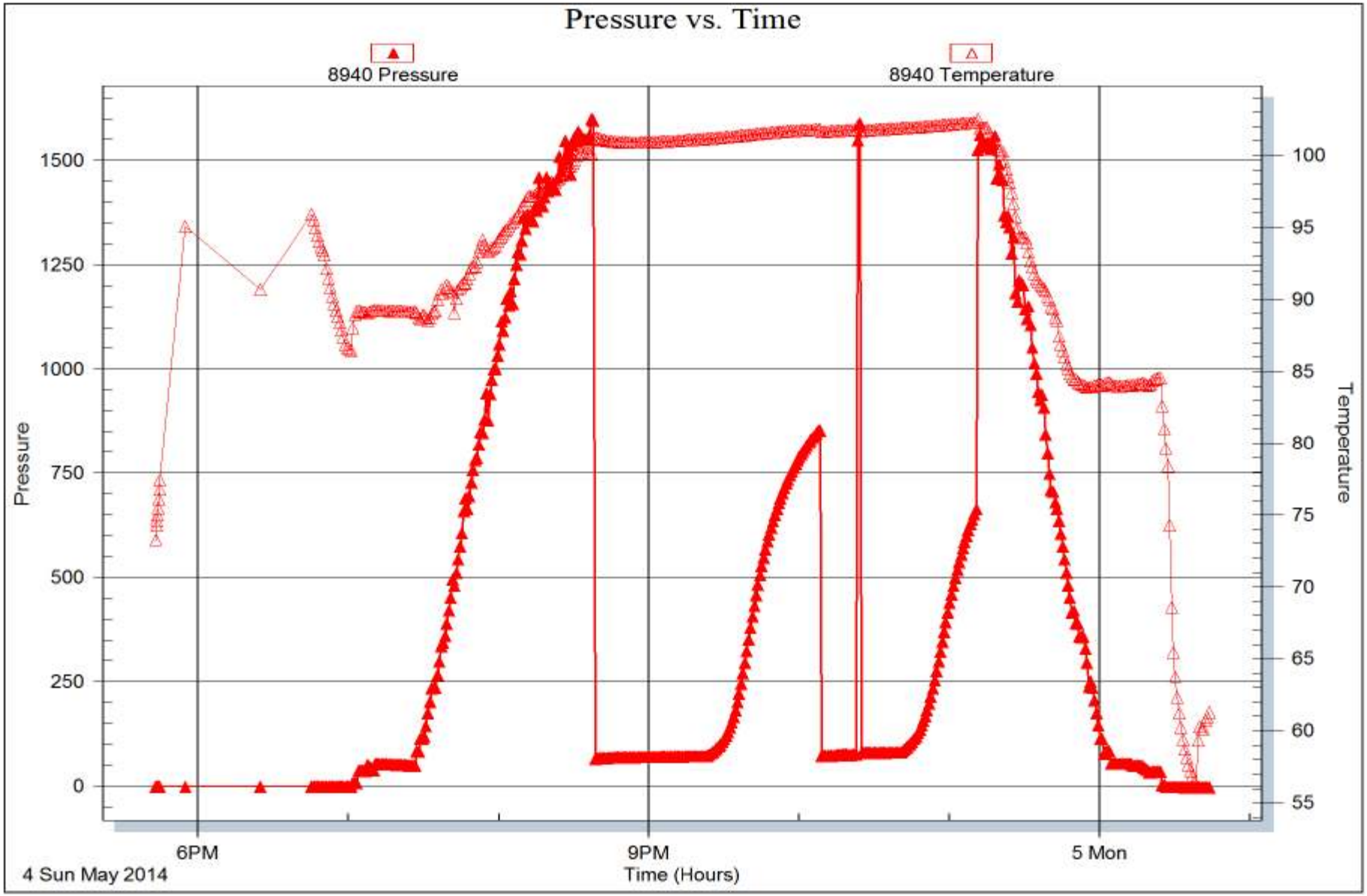
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8648 **Inside** TDI Inc Stephanie #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 54038 Printed: 2014.05.06 @ 14:34:20

Serial #: 8940 **Outside** TDI Inc Stephanie #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 54038 Printed: 2014.05.06 @ 14:34:20

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

1310 Bison Rd
Hays KS 67601

ATTN: Herb Deines

Stephanie #1

10-10s-17w Rooks KS

Start Date: 2014.05.05 @ 13:31:00
End Date: 2014.05.05 @ 20:07:00
Job Ticket #: 54039 DST #: 2

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

Printed: 2014.05.06 @ 14:33:47

DRILL STEM TEST REPORT

TDI Inc

1310 Bison Rd
Hays KS 67601

ATTN: Herb Deines

10-10s-17w Rooks KS

Stephanie #1

Job Ticket: 54039 **DST#: 2**

Test Start: 2014.05.05 @ 13:31:00

GENERAL INFORMATION:

Formation: **LKC "G-J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:36:30
Time Test Ended: 20:07:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Cody Bloedorn
Unit No: 73

Interval: 3298.00 ft (KB) To 3393.00 ft (KB) (TVD)
Total Depth: 3393.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

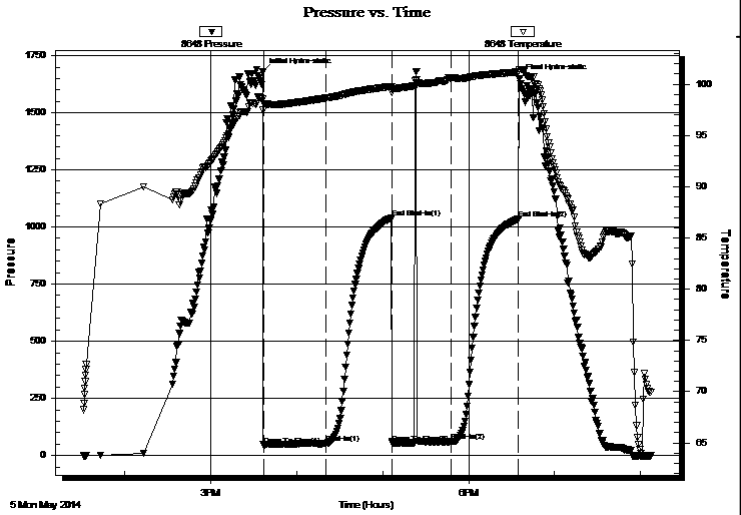
Reference Elevations: 2022.00 ft (KB)
2012.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8648 **Inside**

Press@RunDepth: 60.86 psig @ 3368.00 ft (KB)
Start Date: 2014.05.05 End Date: 2014.05.05
Start Time: 13:31:05 End Time: 20:06:59

Capacity: 8000.00 psig
Last Calib.: 2014.05.05
Time On Btm: 2014.05.05 @ 15:36:15
Time Off Btm: 2014.05.05 @ 18:35:30

TEST COMMENT: 45 - IF- 3/4" blow
45 - ISI- No return
45 - FF- No blow for 15 minutes, flushed tool, surged and died
45 - FSI- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1677.92	98.54	Initial Hydro-static
1	46.43	97.49	Open To Flow (1)
44	52.10	98.66	Shut-In(1)
90	1040.18	99.79	End Shut-In(1)
91	55.26	99.50	Open To Flow (2)
132	60.86	100.59	Shut-In(2)
179	1035.42	101.21	End Shut-In(2)
180	1649.53	101.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	WM - Oil spots, 5%W, 95%M	0.28

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TDI Inc

1310 Bison Rd
Hays KS 67601

ATTN: Herb Deines

10-10s-17w Rooks KS

Stephanie #1

Job Ticket: 54039 **DST#: 2**

Test Start: 2014.05.05 @ 13:31:00

GENERAL INFORMATION:

Formation: **LKC "G-J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:36:30
Time Test Ended: 20:07:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Cody Bloedorn
Unit No: 73

Interval: 3298.00 ft (KB) To 3393.00 ft (KB) (TVD)
Total Depth: 3393.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

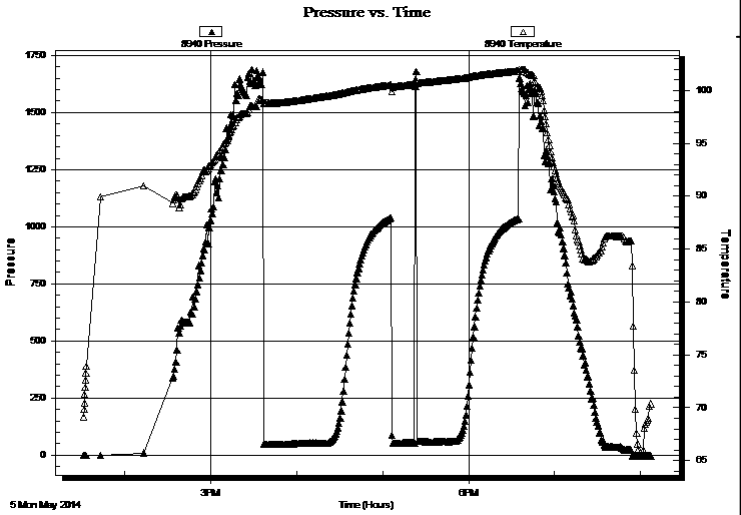
Reference Elevations: 2022.00 ft (KB)
2012.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8940 **Outside**

Press@RunDepth: psig @ 3368.00 ft (KB)
Start Date: 2014.05.05 End Date: 2014.05.05
Start Time: 13:31:05 End Time: 20:06:59

Capacity: 8000.00 psig
Last Calib.: 2014.05.05
Time On Btm:
Time Off Btm:

TEST COMMENT: 45 - IF- 3/4" blow
45 - ISI- No return
45 - FF- No blow for 15 minutes, flushed tool, surged and died
45 - FSI- No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	WM - Oil spots, 5%W, 95%M	0.28

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI Inc

1310 Bison Rd
Hays KS 67601

ATTN: Herb Deines

10-10s-17w Rooks KS

Stephanie #1

Job Ticket: 54039 **DST#: 2**

Test Start: 2014.05.05 @ 13:31:00

Tool Information

Drill Pipe:	Length:	3308.00 ft	Diameter:	3.80	inches	Volume:	46.40	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25	inches	Volume:	0.00	bbl	
						Total Volume:	46.40	bbl	

Drill Pipe Above KB:	31.00 ft
Depth to Top Packer:	3298.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	95.00 ft
Tool Length:	116.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2000.00 lb
Weight set on Packer:		30000.00 lb
Weight to Pull Loose:		49000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	45000.00 lb
	Final	45000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3278.00		
Shut In Tool	5.00			3283.00		
Hydraulic tool	5.00			3288.00		
Packer	5.00			3293.00	21.00	Bottom Of Top Packer
Packer	5.00			3298.00		
Stubb	1.00			3299.00		
Perforations	5.00			3304.00		
Change Over Sub	1.00			3305.00		
Drill Pipe	62.00			3367.00		
Change Over Sub	1.00			3368.00		
Recorder	0.00	8648	Inside	3368.00		
Recorder	0.00	8940	Outside	3368.00		
Perforations	22.00			3390.00		
Bullnose	3.00			3393.00	95.00	Bottom Packers & Anchor
Total Tool Length:	**116.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc

1310 Bison Rd
Hays KS 67601

ATTN: Herb Deines

10-10s-17w Rooks KS

Stephanie #1

Job Ticket: 54039 **DST#: 2**

Test Start: 2014.05.05 @ 13:31:00

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:	45.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.59 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3300.00 ppm				
Filter Cake:	3.00 inches				

Recovery Information

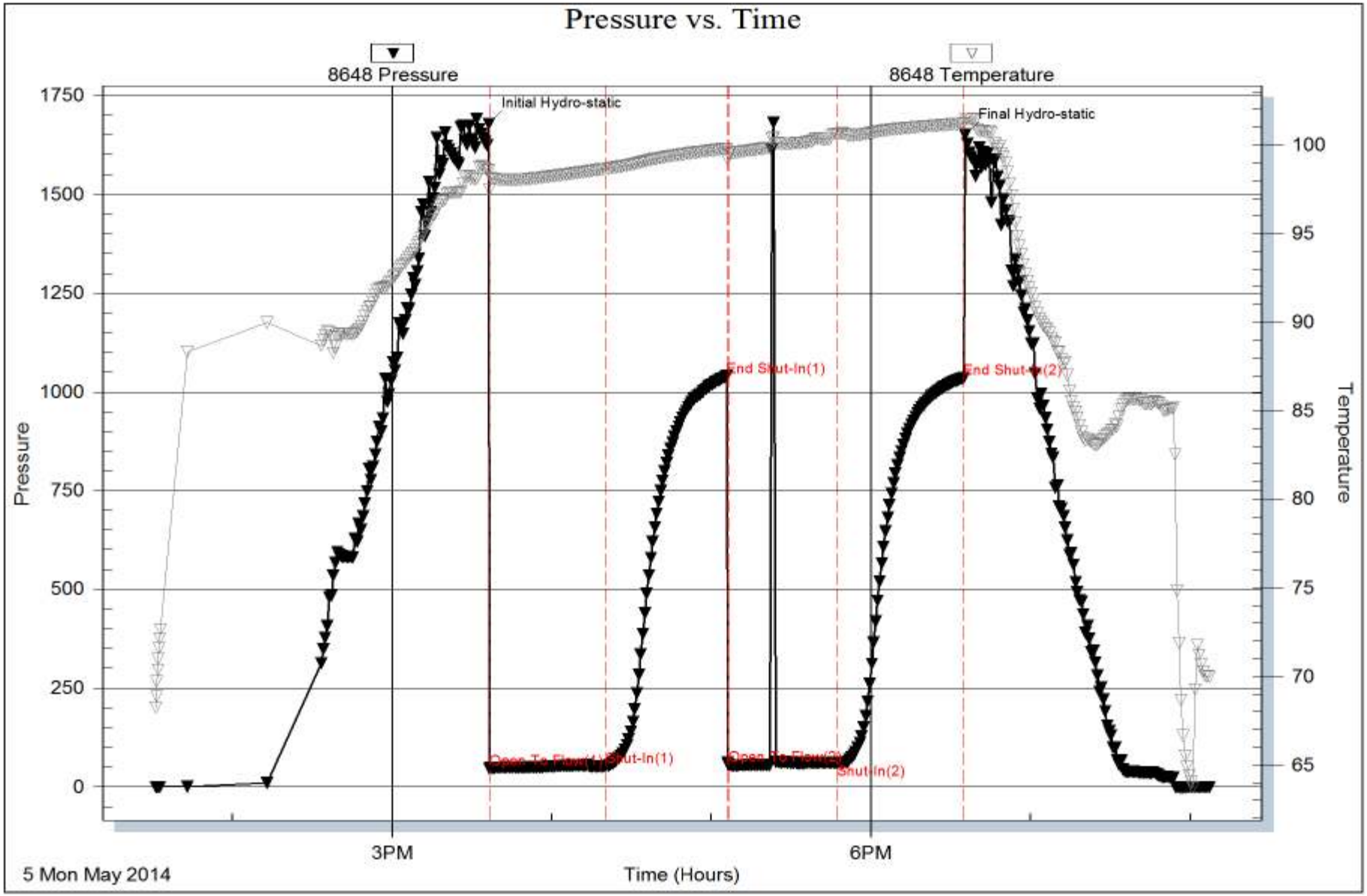
Recovery Table

Length ft	Description	Volume bbl
20.00	WM - Oil spots, 5%W, 95%M	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbl

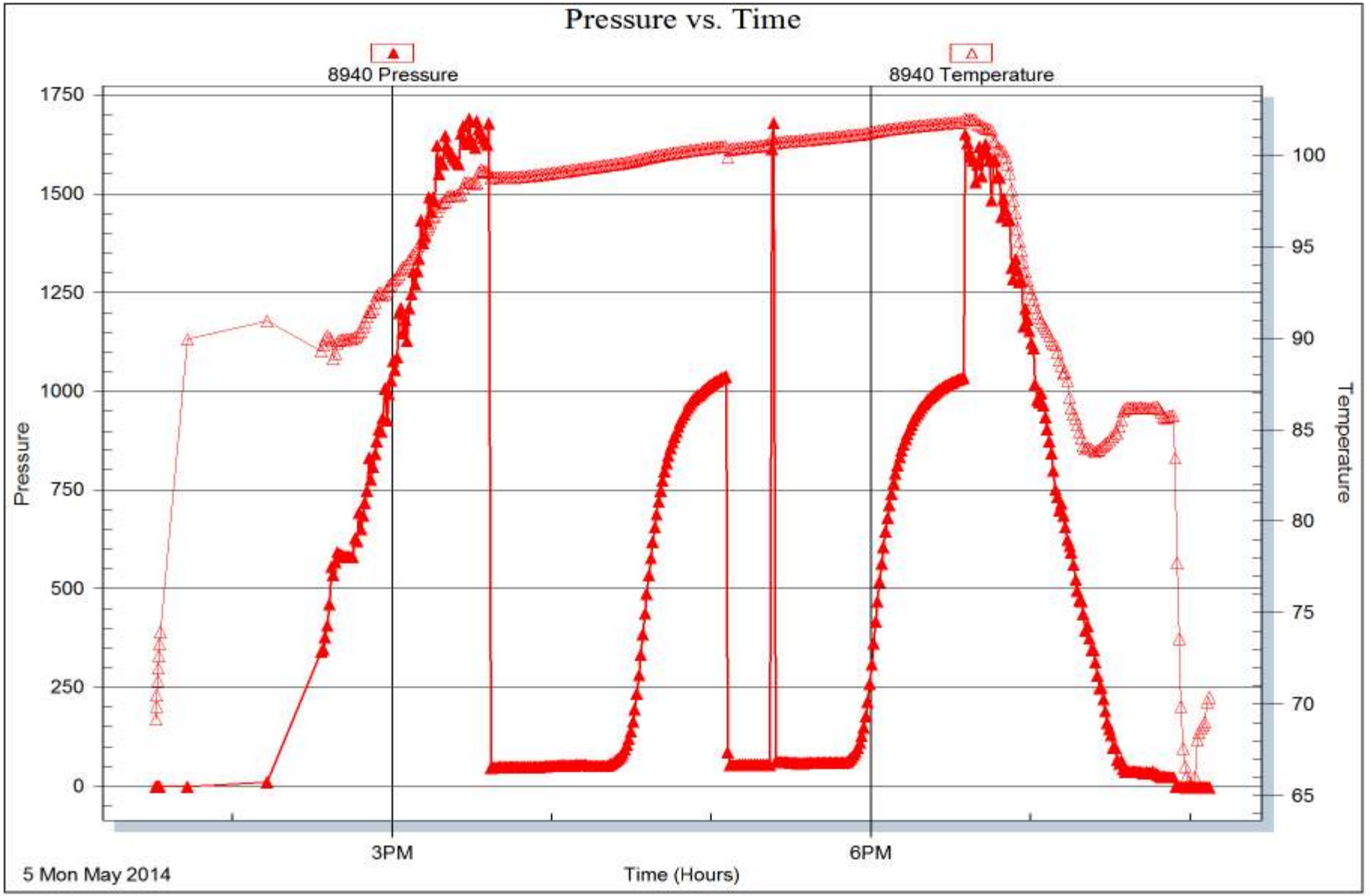
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8648 **Inside** TDI Inc Stephanie #1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 54039 Printed: 2014.05.06 @ 14:33:48

Serial #: 8940 **Outside** TDI Inc Stephanie #1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 54039 Printed: 2014.05.06 @ 14:33:49

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 54038

Well Name & No. Stephanie #1 Test No. 1 Date 5-4-14

Company TDI Inc Elevation 2022 KB 2030 GL

Address 1310 Bison Rd, Hays KS. 67601

Co. Rep / Geo. Herb Deines Rig Southwind #7

Location: Sec. 10 Twp. 10s Rge. 17w Co. Rooks State KS

Interval Tested 3152-3270 Zone Tested Toronto - LKC "D"

Anchor Length 118' Drill Pipe Run 3156' Mud Wt. 9.0

Top Packer Depth 3147 Drill Collars Run — Vis 57

Bottom Packer Depth 3152 Wt. Pipe Run — WL 6.4

Total Depth 3270 Chlorides 2,500 ppm System LCM 3#

Blow Description IF- 1½" blow

ISI- No return

FF- No blow for 15 min. Flushed tool. Weak surface blow

FSI- No return

Rec 40	Feet of VSOCM	%gas	1	%oil	%water 99	%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 40' BHT 101° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	1600	☒ Test	1150	T-On Location	1723
(B) First Initial Flow	65	☐ Jars		T-Started	1743
(C) First Final Flow	72	☐ Safety Joint		T-Open	2038
(D) Initial Shut-In	856	☐ Circ Sub		T-Pulled	2312
(E) Second Initial Flow	72	☐ Hourly Standby		T-Out	1243
(F) Second Final Flow	80	☒ Mileage 61RT	94.55	Comments	
(G) Final Shut-In	667	☐ Sampler			
(H) Final Hydrostatic	1558	☐ Straddle		☐ Ruined Shale Packer	
		☐ Shale Packer		☐ Ruined Packer	
Initial Open	45	☐ Extra Packer		☐ Extra Copies	
Initial Shut-In	45	☐ Extra Recorder		Sub Total	0
Final Flow	30	☐ Day Standby		Total	1244.55
Final Shut-In	30	☐ Accessibility		MP/DST Disc't	
		Sub Total	1244.55		

Approved By _____ Our Representative Cody Black

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 54039

Well Name & No. Stephanie #1 Test No. 2 Date 5-5-14

Company TDI Inc Elevation 2022 KB 2012 GL

Address 1310 Bison Rd, Hays KS, 67601

Co. Rep / Geo. Herb Deines Rig Southwind #1

Location: Sec. 10 Twp. 10s Rge. 17w Co. Rooks State KS

Interval Tested 3298-3393 Zone Tested LKC "6-J"

Anchor Length 95' Drill Pipe Run 3308' Mud Wt. 9.1

Top Packer Depth 3293 Drill Collars Run — Vis 45

Bottom Packer Depth 3298 Wt. Pipe Run — WL 7.6

Total Depth 3393 Chlorides 3,300 ppm System LCM 3

Blow Description IF - 3/4" blow

ISI - No return

FF - No blow for 15 min. Flushed tool. Surged & died

FSI - No return

Rec 20	Feet of WM - oil spots	%gas	%oil	5	%water 95	%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 101° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1677	☒ Test 1150	T-On Location 1309	
(B) First Initial Flow 46	☐ Jars	T-Started 1331	
(C) First Final Flow 52	☐ Safety Joint	T-Open 1537'	
(D) Initial Shut-In 1040	☐ Circ Sub	T-Pulled 1837	
(E) Second Initial Flow 55	☐ Hourly Standby	T-Out 2008	
(F) Second Final Flow 60	☒ Mileage 6 1 RTX2 189.10	Comments Loaded tools 5-6-14 @ 11:54 am	
(G) Final Shut-In 1035	☐ Sampler		
(H) Final Hydrostatic 1649	☐ Straddle	☐ Ruined Shale Packer	
	☐ Shale Packer	☐ Ruined Packer	
Initial Open 45	☐ Extra Packer	☐ Extra Copies	
Initial Shut-In 45	☐ Extra Recorder	Sub Total 0	
Final Flow 45	☐ Day Standby	Total 1339.10	
Final Shut-In 45	☐ Accessibility	MP/DST Disc't	
	Sub Total 1339.10		

Approved By _____ Our Representative Cody Bluedorn

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:	STEPHANIE # 1		
Location:	SW NW SE SW, Sec.10-10s-17w	API:	15-163-24,200-00-00
Pool:	WILDCAT	Field:	UNNAMED
State:	KANSAS	Country:	USA

Scale 1:240 Imperial

Well Name:	STEPHANIE # 1		
Surface Location:	SW NW SE SW, Sec.10-10s-17w		
Bottom Location:			
API:	15-163-24,200-00-00		
License Number:	4787		
Spud Date:	4/30/2014	Time:	2:00 PM
Region:	ROOKS COUNTY		
Drilling Completed:	5/6/2014	Time:	2:06 PM
Surface Coordinates:	916' FSL & 1617' FWL		
Bottom Hole Coordinates:			
Ground Elevation:	2012.00ft		
K.B. Elevation:	2022.00ft		
Logged Interval:	2100.00ft	To:	3646.00ft
Total Depth:	3646.00ft		
Formation:	LANSING-KANSAS CITY		
Drilling Fluid Type:	CHEMICAL/FRESH WATER GEL		

SURFACE CO-ORDINATES

Well Type:	Vertical		
Longitude:	-99.2081733	Latitude:	39.1930971
N/S Co-ord:	916' FSL		
E/W Co-ord:	1617' FWL		

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:	4/30/2014	Time:	2:00 PM
TD Date:	5/6/2014	Time:	2:06 PM
Rig Release:	5/7/2014	Time:	10:00 AM

ELEVATIONS

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

NOTES

RECOMMENDATION TO RUN PRODUCTION CASING TO TEST NUMEROUS LKC BENCHES WITH SHOWS OF HYDROCARBONS

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) COVENTIONAL TESTS

FORMATION TOPS COMPARISON AND CHRONOLOGY OF DAILY ACTIVITY

	STEPHANIE # 1 **SW NW SE SW** **SEC.10-10S-17W** **2012'GL 2022'KB**	**BICE EAST #1-3** **SW SW SW** **SEC.10-10-17W** **KB 2023'**	**VIOLA # 1** **SW NE NW SE** **SEC.22-10-17W** **KB 2090'**
FORMATION	LOG TOPS	LOG TOPS	LOG TOPS
Anhydrite	**1286 +736**		**+756**
B-Anhydrite	**1320 +702**		**+718**
Topeka	**2932 -910**	**- 918**	**- 933**

Heebner Sh.	3154-1132	-1139	-1153
Toronto	3172-1150	-1158	-1171
LKC	3194-1172	-1181	-1193
BKC	3436-1414	-1419	-1437
Conglomerate	NONE	-1470	-1482
Arbuckle	3500-1478	-1505	-1584
RTD	3646-1624	-1577	-1634

SUMMARY OF DAILY ACTIVITY

4-30-14	RU, Spud 2:00 PM, set 8 5/8" surface casing to 223.11' w/ 150 sxs Common 2%Gel 3%CC, slope 1 degree, plug down 8:00 PM
5-01-14	463', drill plug 4:00 AM
5-02-14	1941', drilling
5-03-14	2675', drilling, displaced 2660' to 2674'
5-04-14	3195', CFS 3195', short trip, CFS 3270', TOWB, DST # 1 3152' to 3270' Toronto-"D" LKC, slope 1 degree @3270'
5-05-14	3320', drilling, CFS 3299', CFS 3393', DST # 2 3298' to 3393', "G" to "J" LKC, TIWB
5-06-14	3535', CFS 3535', RTD 3646'@2:06 PM, TOWB, logs, TIWB, LDDP
5-07-14	3646', finish LDDP, run production casing and cement

DST # 1 3152' TO 3270' TORONTO - "D" LKC TEST SUMMARY

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TDI Inc

1310 Bison Rd
Hays KS, 67601

ATTN: Herb Deines

10-10s-17w Rooks KS

Stephanie #1

Job Ticket: 54038 **DST#: 1**

Test Start: 2014.05.04 @ 17:43:00

GENERAL INFORMATION:

Formation: **Toronto - D**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:38:00
Time Test Ended: 00:43:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Cody Bloedorn
Unit No: 73

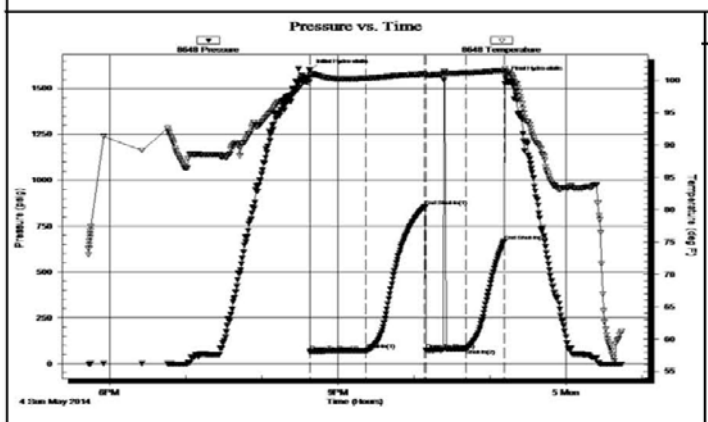
Interval: 3152.00 ft (KB) To 3270.00 ft (KB) (TVD)
Total Depth: 3270.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2022.00 ft (KB)
2012.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8648 Inside
Press@RunDepth: 80.96 psig @ 3258.00 ft (KB)
Start Date: 2014.05.04 End Date: 2014.05.05
Start Time: 17:43:05 End Time: 00:43:44

Capacity: 8000.00 psig
Last Calib.: 2014.05.05
Time On Btm: 2014.05.04 @ 20:37:45
Time Off Btm: 2014.05.04 @ 23:12:00

TEST COMMENT: 45 - IF- 1.5" blow
45 - ISI- No return
30 - FF- No blow for 15 minutes, flushed tool, weak return fading in and out
30 - FSI- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1600.95	100.75	Initial Hydro-static
1	65.15	100.28	Open To Flow(1)
44	72.11	100.33	Shut-In(1)
91	856.87	100.98	End Shut-In(1)
92	72.54	100.79	Open To Flow(2)
123	80.96	101.16	Shut-In(2)
154	667.91	101.51	End Shut-In(2)
155	1558.85	101.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume(bbl)
40.00	VSOCM, 1%O, 99%M	0.56

Gas Rates

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

Trilobite Testing, Inc Ref. No: 54038 Printed: 2014.05.05 @ 06:41:53

DST # 2 3298' TO 3393' "G" TO "J" LKC TEST SUMMARY

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

TDI Inc

1310 Bison Rd
Hays KS, 67601

ATTN: Herb Deines

10-10s-17w Rooks KS

Stephanie #1

Job Ticket: 54039 **DST#: 2**

Test Start: 2014.05.05 @ 13:31:00

GENERAL INFORMATION:

Formation: **LKC "G-J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:36:30
Time Test Ended: 20:07:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Cody Bloedorn
Unit No: 73

Interval: 3298.00 ft (KB) To 3393.00 ft (KB) (TVD)
Total Depth: 3393.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

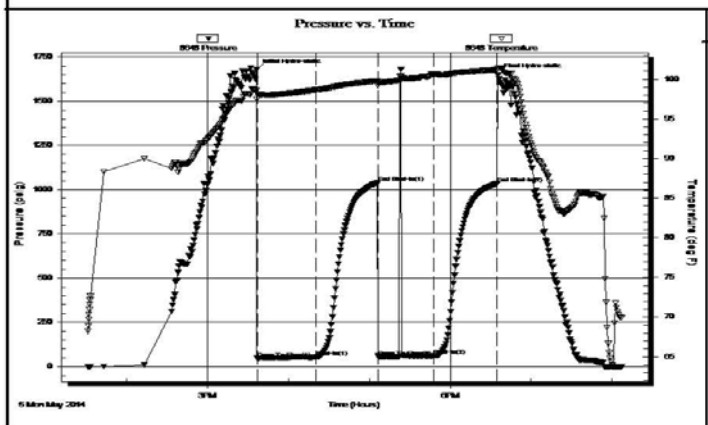
Reference Elevations: 2022.00 ft (KB)
2012.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8648 **Inside**

Press@RunDepth: 60.86 psig @ 3368.00 ft (KB)
Start Date: 2014.05.05 End Date: 2014.05.05
Start Time: 13:31:05 End Time: 20:06:59

Capacity: 8000.00 psig
Last Calib.: 2014.05.05
Time On Btm: 2014.05.05 @ 15:36:15
Time Off Btm: 2014.05.05 @ 18:35:30

TEST COMMENT: 45 - IF- 3/4" blow
45 - ISI- No return
45 - FF- No blow for 15 minutes, flushed tool, surged and died
45 - FSI- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1677.92	98.54	Initial Hydro-static
1	46.43	97.49	Open To Flow (1)
44	52.10	98.66	Shut-In(1)
90	1040.18	99.79	End Shut-In(1)
91	55.26	99.50	Open To Flow (2)
132	60.86	100.59	Shut-In(2)
179	1035.42	101.21	End Shut-In(2)
180	1649.53	101.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	WM - Oil spots, 5%W, 95%M	0.28

* Recovery from multiple tests

Gas Rates

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

Trilobite Testing, Inc Ref. No: 54039 Printed: 2014.05.05 @ 22:50:22

ROCK TYPES

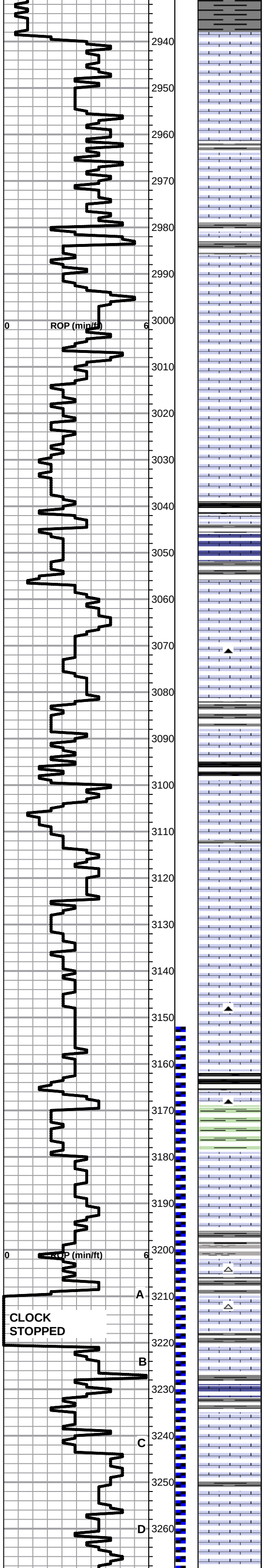
Clystgy
Chtcongl
Dolprim
Lmst fw<7
Lmst fw7>
Lscongl
shale, grn
shale, gry
Carbon Sh
shale, red

ACCESSORIES

MINERAL
- Chert, dark
- P Pyrite
- Chert White

FOSSIL
- Oolite
- Oomoldic

Curve Track #1 (ROP (min/ft))	Depth | Intervals (Cored Interval / DST Interval)	DST	Lithology	Oil Show	Geological Descriptions	Curve Track #3
1:240 Imperial						1:240 Imperial
	2850				BEGIN 1' DRILL TIME FROM 2850' TO RTD BEGIN 1' WET AND DRY SAMPLES FROM 2950' TO RTD	**8 5/8" SURFACE CASING SET TO 223.22' W/150 SXS COMMON 2%GEL 3%CC**
	2860				**ANHYDRITE TOP ELog 1286+73** **ANHYDRITE BASE ELog 1320+702**	**SLOPE 1 DEGREE @224'**
	2870					
	2880					
	2890					
	2900					
	2910					
	2920					
	2930				Shale, lt-med gray, soft blocky	



TOPEKA SPL 2938-916

Lime, lt-med grayish brn, fnxln, slightly fossiliferous

Lime, med grayish brn-gray, fnxln

Lime, lt gray-lt brn, fn-vfxln

Lime, lt grayish brn, fnxln

Lime, lt brn-grayish brn, fn-vfxln
Shale, gray, calcareous

Lime, lt-med brn-grayish brn, fnxln-granular in part, fossiliferous

Lime, lt-med brn, fnxln-granular in part, chalk matrix in part with bed chalk, slightly fossiliferous

Lime, lt-med brn, fnxln-increasing granular, slightly fossiliferous, bedded chalk in part

Lime, med brn-med gray, increasing chalk matrix with bedded chalk

Shale, black carbonaceous, fissile, blocky
Lime, med brn, vfxln

Lime, lt gray with green tinting, soft on crush

Lime, lt-med brn, fn-vfxln

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

Lime, tan-lt brn with lt gray tint, fn-vfxln

Lime, lt brn-lt grayish brn, fnxln, fossiliferous in part

Lime, lt brn, fn-vfxln

Shale, black carbonaceous

Lime, lt-med brn, fnxln

Lime, lt-med brn, fnxln-granular, chalk matrix in part, NS

Lime, lt-med brn, fnxln-granular, white chalk wash with stickly clumps of chalk in part, NS

Lime, lt-med brn, fnxln-granular, scattered fusulinids

Lime, lt-med brn, fnxln-slightly granular, slightly fossiliferous

Lime, lt-med brn, fnxln, slightly granular in part

HEEBNER SHALE SPL 3162-1140

Shale, black carbonaceous, fisile, blocky
Lime, lt brn, fn-vfxln

TORONTO SPL 3179-1157

Lime, white-crm, mostly fnxln, thin zone with fine inter xln porosity, very lt odor, lt staining w few specks of free oil on crush

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

LKC SPL 3202-1180

Lime, crm, fnxln, scattered fine ppt vuggy porosity in fine inter xln granular porosity, lt staining, very lt odor, NFO

Lime, lt-med brn, fnxln

Lime, med-dark grayish brn, fnxln, scattered micro fossils

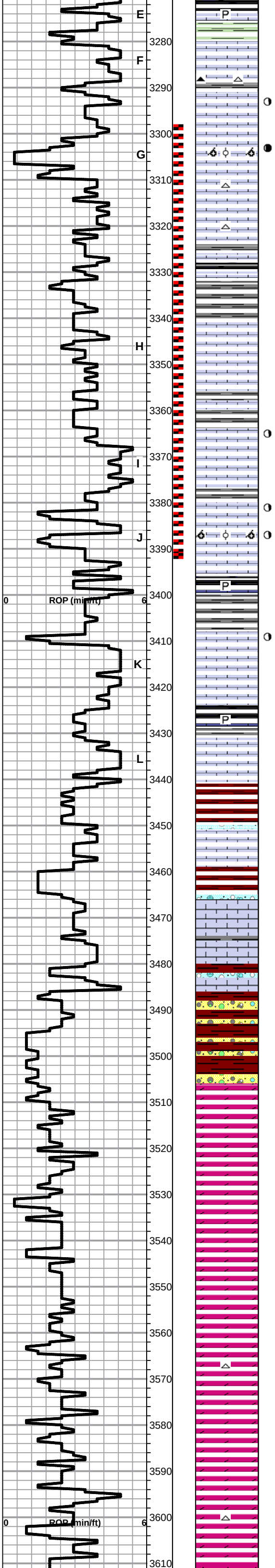
Lime, tan-lt brn, mostly fnxln with thin zone slightly fossiliferous with fine inter xln porosity with scattered fine vugs, very lt odor,scattered-saturated staining, NFO

Lime, lt brn, fnxln

Lime, crm, fnxln, fine xln with ppt vuggy porosity, scattered to saturated staining, very lt odor, NFO

Lime, crm-offwhite, fn-micro xln

DST # 1 3152' TO 3270'
TORONTO - "D" LKC
SEE HEADER FOR TEST SUMMARY



Shale, black carbonaceous
Lime, lt brn, vfxln

Lime, lt brn, fnxln, no visible porosity

Lime, crm-tan fn-vfxln, NS

Lime, crm-tan, fnxln, thin zone with fine interxln porosity with scattered vugs, lt spotty staining, very lt odor

CFS 3299'

Lime, crm-tan, oolitic/oomoldic with scattered to saturated staining in part, very lt odor, NFO, some barren oomoldic in part

Lime, crm-tan, fn-micro xln

Lime, crm-tan, fn-micro xln

Shale, black carbonaceous
lime, med brn, vfxln

DST # 2 3298' TO 3393' SEE HEADER FOR TEST SUMMARY

Lime, crm, fn-vfxln, very clean appearance, NS

Lime, crm, fn-micro xln, slightly fossiliferous, no visible porosity

Lime, crm, fn-vfxln, thin zone with fine inter xln granular porosity, lt scattered staining, very lt odor

Lime, crm, fn-vfxln, slight bedded chalk

Lime, crm-tan, fnxln with thin fnxln granular with fine ppt vuggy porosity, spotty staining, very lt odor

Lime, crm-tan, oomoldic in part, very lt odor with spotty staining

Shale gray-black carbonaceous, blocky, pyrite clusters, shale grading into grayish green, soft blocky

Lime, tan, thin oolitic/oomoldic zone, very lt odor, spotty staining, NFO, interoolitic porosity with scattered vugs.

Lime, crm-tan, fn-vfxln, hard on crush

Shale, med gray-black carbonaceous

Lime, tan, fn-micro xln, NS, very hard on crush

BKC SPL 3441-1419

Shale, reddish brn, soft, blocky

Lime, crm, fn-vfxln, red shale stain in part, no visible porosity

Shale, red, soft sticky

Lime, crm-lt brn, fnxln-granular

Lime, crm-lt-med brn, fn-vfxln, slight clastic lime content in part

Shale, vari colored with red shale

ARBUCKLE SPL 3506-1484

Dolomite, white-tan, soft granular, NS. Interval to 3530' drilled smoothly consistent with shale until harder dolomite encountered with increasing torque on drill string and bouncing of bit

Dolomite, lt brn-dark salmon, fn-cxln, inter xln porosity

Dolomite, lt brn, fn-cxln, scattered salmon colored dolomite in part

Dolomite, lt-med brn, fn-cxln, slight white chalk wash

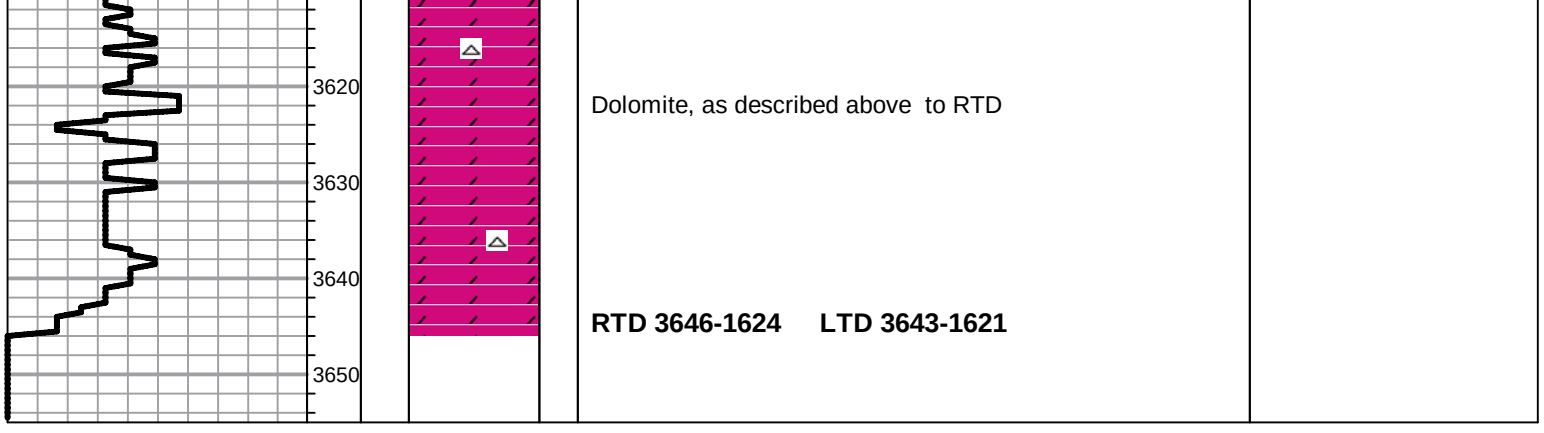
Dolomite, lt-med brn, fnxln with scattered med-cxln

Dolomite, lt-med brn-scattered salmon, fn-cxln with scattered rhombic xln clusters

Dolomite, lt-med brn, fn-cxln

Dolomite, lt-med brn, fn-cxln

Dolomite, lt-med brn, fn-cxln, oolitic chert and bone white



Dolomite, as described above to RTD

RTD 3646-1624 LTD 3643-1621

GLOBAL CEMENTING, L.L.C.

1311

REMIT TO 18048 170RD
RUSSELL, KS 67665

SERVICE POINT: Russell, KS

DATE 4-30-14	SEC. 10	TWP. 10	RANGE 17	CALLED OUT	ON LOCATION	JOB START 7:30pm	JOB FINISH 8:00pm
LEASE Stephanie	WELL # 1		LOCATION			COUNTY Rooks	STATE KS
OLD OR (NEW) (CIRCLE ONE)							

CONTRACTOR Southwind
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D.
CASING SIZE 8 5/8 DEPTH 224
TUBING SIZE DEPTH 223.11
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 20ft
PERFS
DISPLACEMENT 12 3/4 661

EQUIPMENT

PUMP TRUCK # P1 CEMENTER Heath
HELPER Cody - Brad
BULK TRUCK # B3 DRIVER Eric
BULK TRUCK # DRIVER

OWNER

CEMENT
AMOUNT ORDERED 150sx com 3%cc 2%gel

COMMON		@	
POZMIX		@	
GEL		@	
CHLORIDE		@	
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING		@	
MILEAGE			
		TOTAL	

REMARKS:

Ran 5 Jts of 8 5/8 casing and landing pt
est Circulation
Hook up and mix 150sx and disp 12 3/4 661
& H2O - Shut in @ 150psi
Cement Did Circulate

SERVICE

DEPTH OF JOB
PUMP TRUCK CHARGE
EXTRA FOOTAGE @
MILEAGE 28 @
MANIFOLD @
@
@
TOTAL

CHARGE TO: TPI
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

@
@
@
@
@
TOTAL

Global Cementing, L.L.C.,
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME
SIGNATURE Henry Brown

SALES TAX (If Any)
TOTAL CHARGES
DISCOUNT IF PAID IN 30 DAYS

JOB LOG — **SWIFT Services, Inc.** — DATE 5-7-14 — PAGE NO.

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
TDI	1	Stephanie	5½ Two Stage	25539

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0200							On location
								TD 3646 SS 42
								TP 3635 Insert 3593
								DV tup 56 1251' 5½ x 14#
								Centralizers 1, 3, 90, 7, 9, 11, 12, 55
								Baskets 3, 56
	0445							Start Pipe
	0620							Drop Ball circulate Rotate
	0720	5	12		✓		300	Start Mud flush
		5	20		✓		300	Start KCL flush
		5	36		✓		200	Start Cement 150 sks EA-2
	0745							Drop Plug wash out Pump + lines
	0749	6.5			✓			Start Displacement
		6.5	67.6		✓			Start KCL flush
	0800	6.5	87.6		✓		700/1500	land plug Hold
								Release Psy
	0805							Drop open Plug
	0815		7/4					Plug RH 30 sks, MH 15 sks
	0825						1300	Open DV
	0826	5	75		✓			Start Cement 135 sks @ 11.2#/gal
		5	6		✓			20 sks @ 14#/gal
	0843							Drop Closing Plug
								Wash out Pump + lines
	0845	4			✓			Start Displacement
		4	17		✓		400	Circulate Cement 25 sks to Pit
	0855	4	30.5		✓		400/1500	land Plug Hold
								Release Psy
								Wash up Rack up
	0930							Job Complete
								Thank You Josh, Brian, Rob