

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

ORIGINAL

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

OPERATOR: License # 4787
Name: TDI, Inc.
Address 1: 1310 Bison Road
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: none

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
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

<u>11/10/2010</u>	<u>11/19/2010</u>	<u>TA</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 051-26037-00-00
Spot Description: _____
N/2 S/2 S/2 NE Sec. 9 Twp. 15 S. R. 19 East West
2145 Feet from North / South Line of Section
1320 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Ellis
Lease Name: Reichert Well #: 1
Field Name: Reichert
Producing Formation: TA
Elevation: Ground: 2034 Kelly Bushing: 2044
Total Depth: 3755 Plug Back Total Depth: 3704
Amount of Surface Pipe Set and Cemented at: 232 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: surface w/ 200 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 37,000 ppm Fluid volume: 1100 bbls
Dewatering method used: evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Permit #: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: [Signature]
Title: President Date: 2/21/2011

KCC Office Use ONLY

Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: Dog Date: 3/1/11

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Operator Name: TDI, Inc. Lease Name: Reichert Well #: 1
 Sec. 9 Twp. 15 S. R. 19 East West County: Ellis

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	1269	+775
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Topeka	3022	-978
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	3301	-1257
List All E. Logs Run:		Lansing/KC	3350	-1306
Dual Induction Log		Conglomerate	3637	-1593
Dual Compensated Porosity Log		Arbuckle	3683	-1639
Microresistivity Log		Reagan	3739	-1695

CASING RECORD <input checked="" 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
Surface	12 1/4"	8 5/8"	23#	232	common	165	3% gel 5% cc
Production	7 7/8"	5 1/2"	14#	3755	EA-2	150	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	1251	SMD	200	

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
3 spf	3665'-3672'	750 gal 10% then squeezed w/ 100 sks common	
3 spf	3666' 3674'	350 gal 15% & the another 350 gal 15%	

TUBING RECORD: Size: none Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: TA Producing Method: Flowing Pumping Gas Lift Other (Explain) TA

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) <u>TA</u>	PRODUCTION INTERVAL: <u>TA</u>
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Mail to: KCC - Conservation Division, 130 S. Market - Room 207B, Wichita, Kansas 67202

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JOB LOG

SWIFT Services, Inc.

DATE 11-19-10 PAGE NO. 1

CUSTOMER **TDI** WELL NO. **#1** LEASE **Riechert** JOB TYPE **2-Stage 2** TICKET NO. **18215**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1815							on loc w/ FE
								RTD 3754'
								5 1/2" x 14" x 3755' x 94'
								Ceats 1, 3, 5, 7, 9, 12, 59
								Back 3, 12, 57, 75
								D.V. Tool 58 @ 1254'
	1900							start F.E.
	2035							Break Circ
	2100	4.5	0			150		Start Preflush 500 gal Mad Flush
		5.5	32/0			200		20 bbl KCL Flush
	2115		36					Start Cement 150 sks EA-2
								End
	2120	6.5	0			100		Wash PTL / Drop L D Plug
		6.5	64			150		Start Displacement w/ Mad
	2130	5	70			200		catch Cement
	2135		90.5			400/400		Land Plug
								Release Pressure / Float Held
	2138							Drop Opening Plug
	2140	2.5	7					Plug RH & 30 sks SMD
	2150					1100		Open D.V.
	2155	4	0			100		Start KCL Flush 20 bbl
	2200	5	20/0			150		Start Cement 100 sks SMD
	2220		10.8					End Cement
								Drop Closing Plug
	2223	5	0			100		Start Displacement
		4	5			100		Circ Cement
	2230		30.5			400/400		Land Plug
								Close D.V.
								Release Pressure
								DV Closed

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Nick Bosh
Circ 40 sks top it
Thank you
Nick, Bosh F. & David

ALLIED CEMENTING CO., LLC. 30138

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Russell

DATE <u>11/10/12</u>	SEC. <u>9</u>	TWP. <u>15</u>	RANGE <u>19</u>	CALLED OUT	ON LOCATION	JOB START <u>6:30</u>	JOB FINISH <u>2:00pm</u>
LEASE <u>Reichert</u> WELL # <u>1</u>		LOCATION <u>Antonio 2w 1.5</u>		COUNTY <u>Ellis</u>	STATE <u>KS</u>		
OLD OR (NEW) (Circle one) <u>(NEW)</u>				<u>1/2 E @ Nint</u>			

CONTRACTOR <u>Southwind Drilling Rig #1</u>		OWNER _____
TYPE OF JOB <u>Surface Sub</u>		
HOLE SIZE <u>12 1/4</u>	T.D. <u>239</u>	CEMENT AMOUNT ORDERED <u>165 cu. yds. 37.00 216.1</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>232.16</u>	
TUBING SIZE _____	DEPTH _____	
DRILL PIPE _____	DEPTH _____	
TOOL _____	DEPTH _____	
PRES. MAX _____	MINIMUM _____	COMMON <u>99</u> @ <u>13.50</u> <u>1336.50</u>
MEAS. LINE _____	SHOE JOINT _____	POZMIX <u>66</u> @ <u>7.55</u> <u>498.30</u>
CEMENT LEFT IN CSG. <u>18'</u>		GEL <u>3</u> @ <u>20.25</u> <u>60.75</u>
PERFS. _____		CHLORIDE <u>5</u> @ <u>51.50</u> <u>257.50</u>
DISPLACEMENT <u>13.8661</u>		ASC _____ @ _____

EQUIPMENT

PUMP TRUCK # <u>417</u>	CEMENTER <u>Shane</u>
BULK TRUCK # <u>378</u>	HELPER <u>Kevin</u>
BULK TRUCK # _____	DRIVER <u>Mark</u>
BULK TRUCK # _____	DRIVER _____

REMARKS:

Row 5 jts + Candy Jt.
Est Circulation
Mixed 165 skt
Cement Circulated

CHARGE TO: FOT
STREET _____
CITY _____ STATE _____ ZIP _____

HANDLING 165 @ 2.25 371.25
MILEAGE 10.64/mile 300.00
TOTAL 2824.30

SERVICE

DEPTH OF JOB _____	
PUMP TRUCK CHARGE _____	<u>991.00</u>
EXTRA FOOTAGE _____ @ _____	
MILEAGE <u>11</u> @ <u>7.00</u>	<u>77.00</u>
MANIFOLD _____ @ _____	
_____ @ _____	
_____ @ _____	

TOTAL 1068.00
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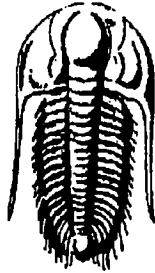
PLUG & FLOAT EQUIPMENT

_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
TOTAL _____	

To Allied Cementing Co., LLC.
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 Frank Rome
SIGNATURE Frank Rome

SALES TAX (If Any) _____
TOTAL CHARGES 1068.00
DISCOUNT _____ IF PAID IN 30 DAYS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

1310 Bison Rd
Hays Ks 67601-9696

ATTN: Tom Denning

10-15s-18w Ellis KS

Richard #1

Start Date: 2010.05.09 @ 22:48:34

End Date: 2010.05.10 @ 05:46:28

Job Ticket #: 38567 DST #: 1

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Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

TDI Inc

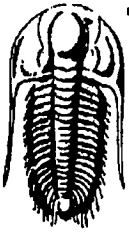
Richard #1

10-15s-18w Ellis KS

DST # 1

LKC A-B

2010.05.09



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TDI Inc
1310 Bison Rd
Hays Ks 67601-9696
ATTN: Tom Denning

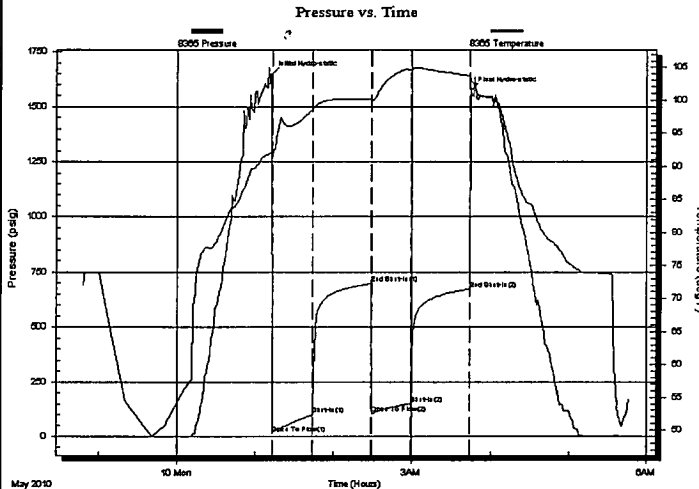
Richard #1
10-15s-18w Ellis KS
Job Ticket: 38567 **DST#: 1**
Test Start: 2010.05.09 @ 22:48:34

GENERAL INFORMATION:

Formation: **LKC A-B**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 01:12:59
Time Test Ended: 05:46:28
Interval: **3336.00 ft (KB) To 3360.00 ft (KB) (TVD)**
Total Depth: **3360.00 ft (KB) (TVD)**
Hole Diameter: **7.85 inches** Hole Condition: Fair
Reference Elevations: **2028.00 ft (KB)**
2023.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 8365 **Inside**
Press@RunDepth: **149.74 psig @ 3337.01 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.05.09** End Date: **2010.05.10** Last Calib.: **2010.05.10**
Start Time: **22:48:34** End Time: **05:46:28** Time On Btmr: **2010.05.10 @ 01:11:59**
Time Off Btmr: **2010.05.10 @ 03:44:58**

TEST COMMENT: IFF-w k to strg in 23min
FFP-w k to a fr bl 1/2" to 4" bl
ISIP-surface bl bk, FSIP-no bl bk
Times 30-45-30-45



PRESSURE SUMMARY

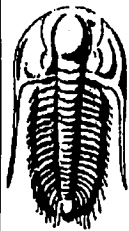
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1644.83	91.99	Initial Hydro-static
1	15.27	91.54	Open To Flow (1)
32	98.68	98.59	Shut-In(1)
77	696.59	100.05	End Shut-In(1)
78	103.16	99.90	Open To Flow (2)
107	149.74	104.65	Shut-In(2)
152	672.53	103.78	End Shut-In(2)
153	1574.21	103.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
105.00	MW 20% M80% Ww/show of oil	0.74
185.00	Water	1.66

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 67601-9696
ATTN: Tom Denning

Richard #1
10-15s-18w Ellis KS
Job Ticket: 38567 **DST#: 1**
Test Start: 2010.05.09 @ 22:48:34

Tool Information

Drill Pipe:	Length: 3079.00 ft	Diameter: 3.80 inches	Volume: 43.19 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 240.00 ft	Diameter: 2.70 inches	Volume: 1.70 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 44.89 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3336.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.02 ft			
Tool Length:	45.02 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			3316.00	
Shut In Tool	5.00			3321.00	
Hydraulic tool	5.00			3326.00	
Packer	5.00			3331.00	21.00 Bottom Of Top Packer
Packer	5.00			3336.00	
Stubb	1.00			3337.00	
Recorder	0.01	8365	Inside	3337.01	
Recorder	0.01	6625	Outside	3337.02	
Perforations	20.00			3357.02	
Bullnose	3.00			3360.02	24.02 Bottom Packers & Anchor
Total Tool Length:	45.02				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc
1310 Bison Rd
Hays Ks 67601-9696
ATTN: Tom Denning

Richard #1
10-15s-18w Ellis KS
Job Ticket: 38567 DST#: 1
Test Start: 2010.05.09 @ 22:48:34

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: 53000 ppm	
Viscosity: 66.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.73 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5300.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

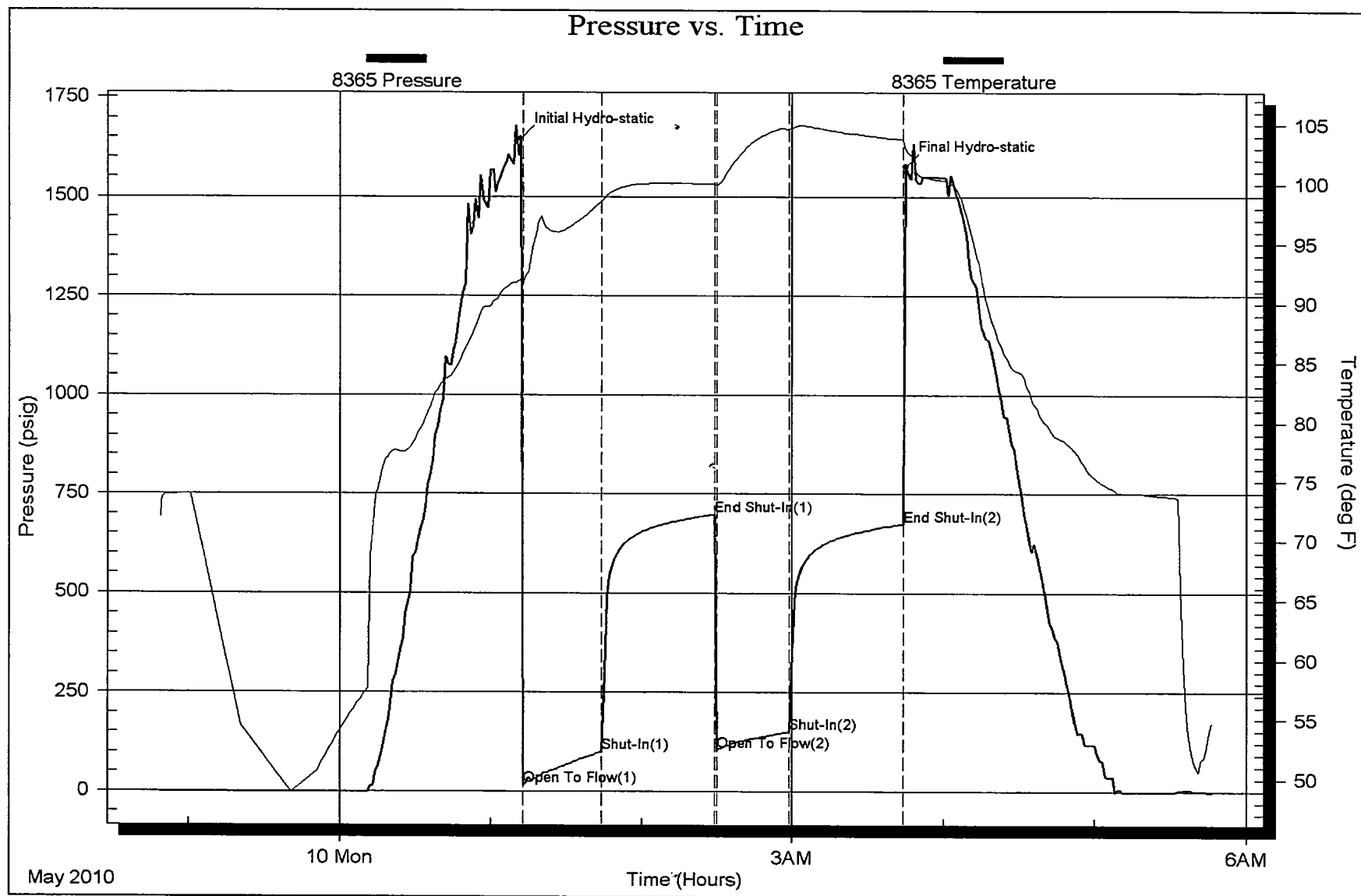
Length ft	Description	Volume bbl
105.00	MW 20% M80% Ww/show of oil	0.744
185.00	Water	1.657

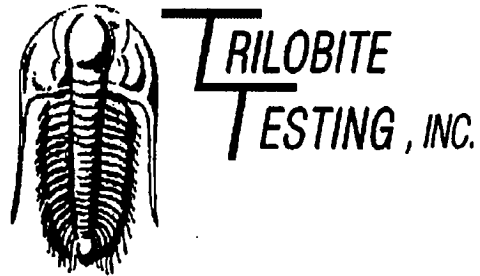
Total Length: 290.00 ft Total Volume: 2.401 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW.19@53F





DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Road
Hays, KS. 67601

ATTN: Herb Deines

9-15s-19w-Ellis,KS

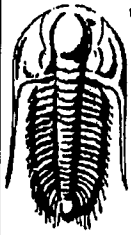
Reichert #1

Start Date: 2010.11.16 @ 17:01:38

End Date: 2010.11.16 @ 22:41:23

Job Ticket #: 40891 DST #: 1

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

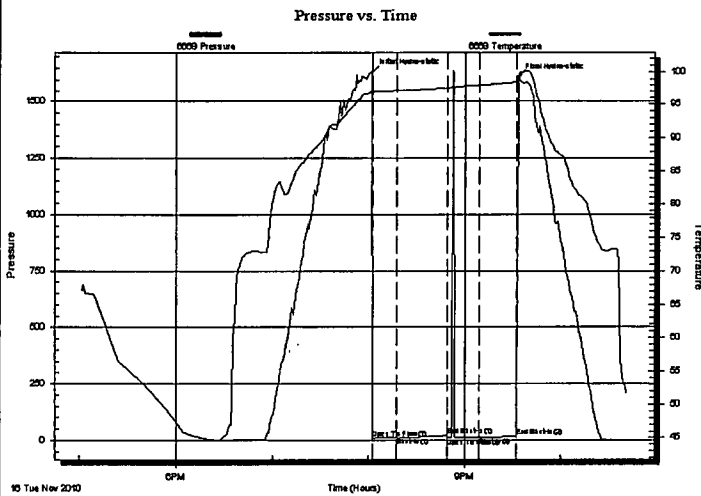
Reichert #1
9-15s-19w-Ellis,KS
Job Ticket: 40891 DST#: 1
Test Start: 2010.11.16 @ 17:01:38

GENERAL INFORMATION:

Formation: "D"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:02:23
Time Test Ended: 22:41:23
Interval: 3386.00 ft (KB) To 3405.00 ft (KB) (TVD)
Total Depth: 3405.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Jason McLemore
Unit No: 54
Reference Elevations: 2044.00 ft (KB)
2034.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6668 Inside
Press@RunDepth: 11.38 psig @ 3387.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.11.16 End Date: 2010.11.16 Last Calib.: 2010.11.16
Start Time: 17:01:40 End Time: 22:41:23 Time On Btm: 2010.11.16 @ 20:01:53
Time Off Btm: 2010.11.16 @ 21:33:08

TEST COMMENT: IFP-Weak Blow ,Died in 5 Min.
ISI-Dead
FFP-Dead,Flush Tool,Still Dead
FSI-Dead



PRESSURE SUMMARY

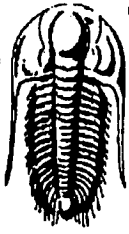
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1629.34	97.27	Initial Hydro-static
1	9.13	96.46	Open To Flow (1)
16	10.91	97.13	Shut-In(1)
47	20.25	97.54	End Shut-In(1)
47	10.34	97.54	Open To Flow (2)
67	11.38	98.01	Shut-In(2)
91	16.74	98.48	End Shut-In(2)
92	1610.08	99.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Drilling Mud	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI Inc.
1310 Bison Road
Hays, KS. 67601

Reichert #1
9-15s-19w-Ellis,KS

Job Ticket: 40891 **DST#: 1**
Test Start: 2010.11.16 @ 17:01:38

ATTN: Herb Deines

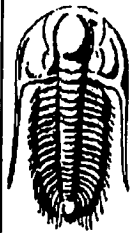
Tool Information

Drill Pipe:	Length: 3377.00 ft	Diameter: 3.80 inches	Volume: 47.37 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: 47.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3386.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	40.00 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			3366.00		
Shut In Tool	5.00			3371.00		
Hydraulic tool	5.00			3376.00		
Packer	5.00			3381.00	21.00	Bottom Of Top Packer
Packer	5.00			3386.00		
Stubb	1.00			3387.00		
Recorder	0.00	6668	Inside	3387.00		
Recorder	0.00	8673	Outside	3387.00		
Perforations	15.00			3402.00		
Bullnose	3.00			3405.00	19.00	Bottom Packers & Anchor
Total Tool Length:	40.00					



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc.

Reichert #1

1310 Bison Road
Hays, KS. 67601

9-15s-19w-Ellis, KS

Job Ticket: 40891

DST#: 1

ATTN: Herb Deines

Test Start: 2010.11.16 @ 17:01:38

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Drilling Mud	0.014

Total Length: 1.00 ft

Total Volume: 0.014 bbl

Num Fluid Samples: 0

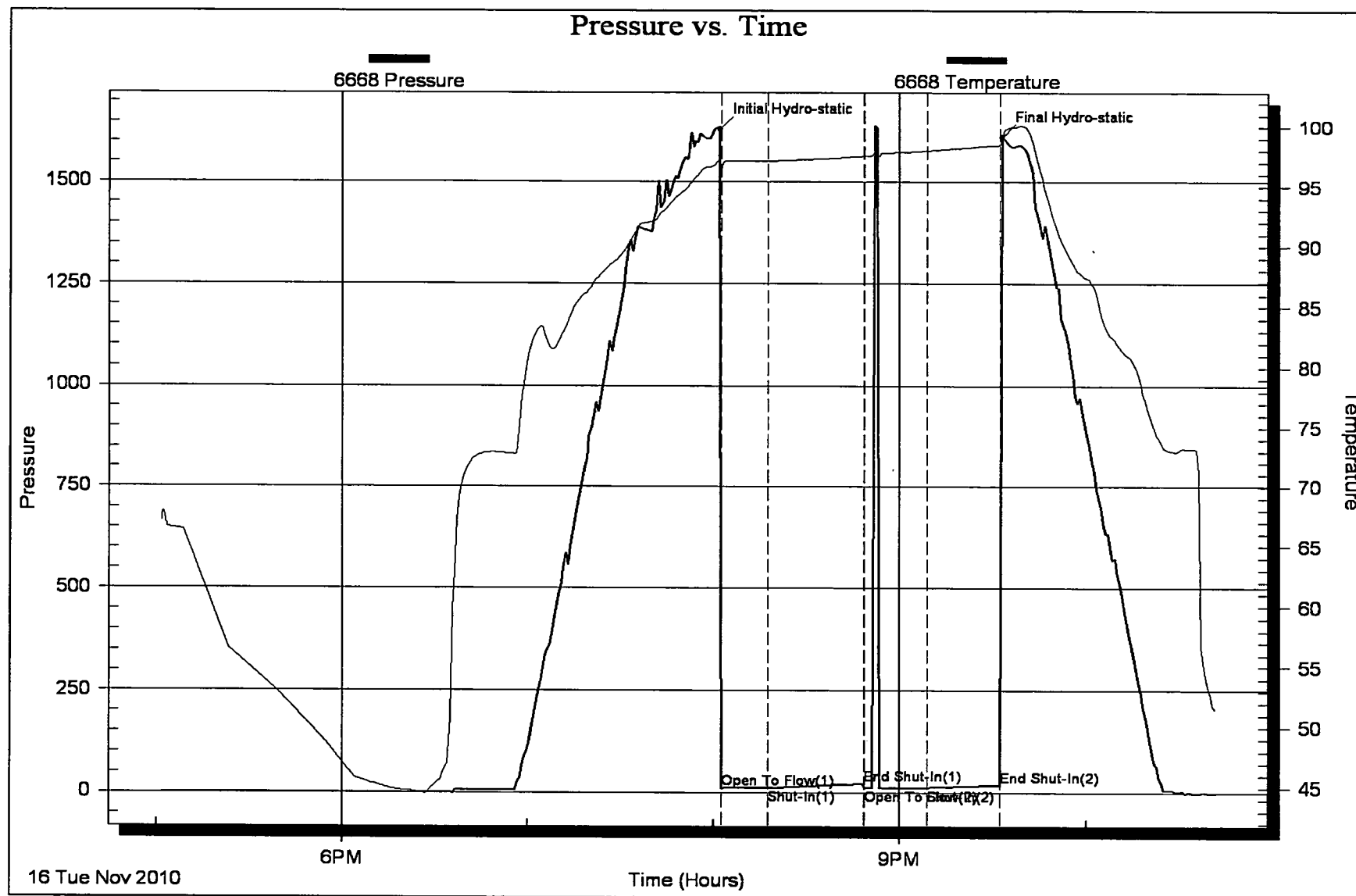
Num Gas Bombs: 0

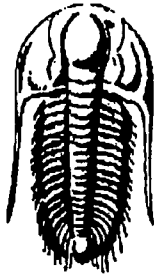
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Road
Hays, KS. 67601

ATTN: Herb Deines

9-15s-19w-Ellis,KS

Reichert #1

Start Date: 2010.11.17 @ 13:30:15

End Date: 2010.11.17 @ 18:42:00

Job Ticket #: 40892 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

TDI Inc.

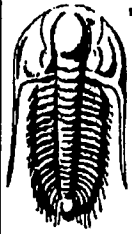
Reichert #1

9-15s-19w-Ellis,KS

DST # 2

LJ

2010.11.17



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

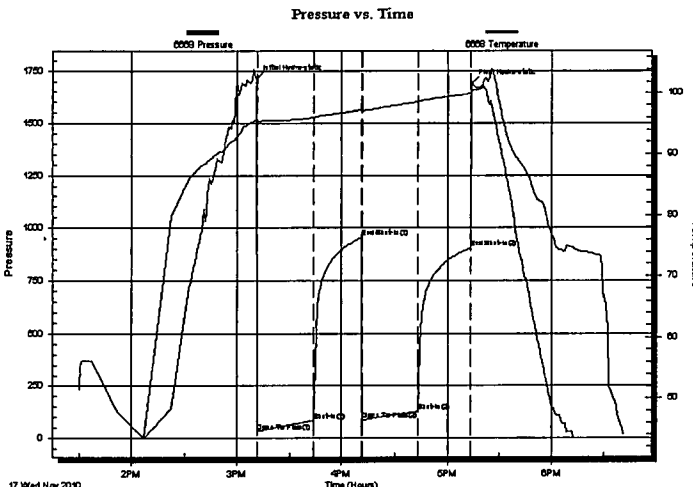
Reichert #1
9-15s-19w-Ellis, KS
Job Ticket: 40892 **DST#: 2**
Test Start: 2010.11.17 @ 13:30:15

GENERAL INFORMATION:

Formation: I-J
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:11:15
Time Test Ended: 18:42:00
Interval: 3495.00 ft (KB) To 3545.00 ft (KB) (TVD)
Total Depth: 3545.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Jason McLemore
Unit No: 54
Reference Elevations: 2044.00 ft (KB)
2034.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6668 Inside
Press@RunDepth: 127.65 psig @ 3532.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.11.17 End Date: 2010.11.17 Last Calib.: 2010.11.17
Start Time: 13:30:17 End Time: 18:42:00 Time On Btm: 2010.11.17 @ 15:11:00
Time Off Btm: 2010.11.17 @ 17:14:00

TEST COMMENT: IFP-Fair Blow ,BOB in 26 Min.
IS-Dead
FFP-Weak Blow ,Built to 2"
FSI-Dead



PRESSURE SUMMARY

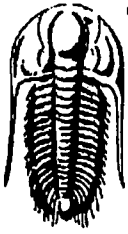
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1716.46	95.55	Initial Hydro-static
1	31.29	94.65	Open To Flow (1)
33	82.94	95.94	Shut-In(1)
61	954.11	97.23	End Shut-In(1)
61	85.99	97.02	Open To Flow (2)
92	127.65	98.46	Shut-In(2)
123	904.92	99.86	End Shut-In(2)
123	1692.04	100.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	Muddy Water-85%W-15%M	2.95

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI Inc.
1310 Bison Road
Hays, KS. 67601

ATTN: Herb Deines

Reichert #1
9-15s-19w-Ellis,KS
Job Ticket: 40892 DST#: 2
Test Start: 2010.11.17 @ 13:30:15

Tool Information

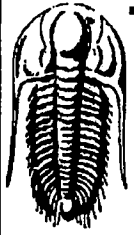
Drill Pipe:	Length: 3504.00 ft	Diameter: 3.80 inches	Volume: 49.15 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 38000.00 lb
			<u>Total Volume: 49.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3495.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	71.00 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			3475.00	
Shut In Tool	5.00			3480.00	
Hydraulic tool	5.00			3485.00	
Packer	5.00			3490.00	21.00 Bottom Of Top Packer
Packer	5.00			3495.00	
Stubb	1.00			3496.00	
Perforations	3.00			3499.00	
Change Over Sub	1.00			3500.00	
Blank Spacing	31.00			3531.00	
Change Over Sub	1.00			3532.00	
Recorder	0.00	6668	Inside	3532.00	
Recorder	0.00	8673	Outside	3532.00	
Perforations	10.00			3542.00	
Bullnose	3.00			3545.00	50.00 Bottom Packers & Anchor

Total Tool Length: 71.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

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

Reichert #1
9-15s-19w-Ellis,KS
Job Ticket: 40892 DST#: 2
Test Start: 2010.11.17 @ 13:30:15

Mud and Cushion Information

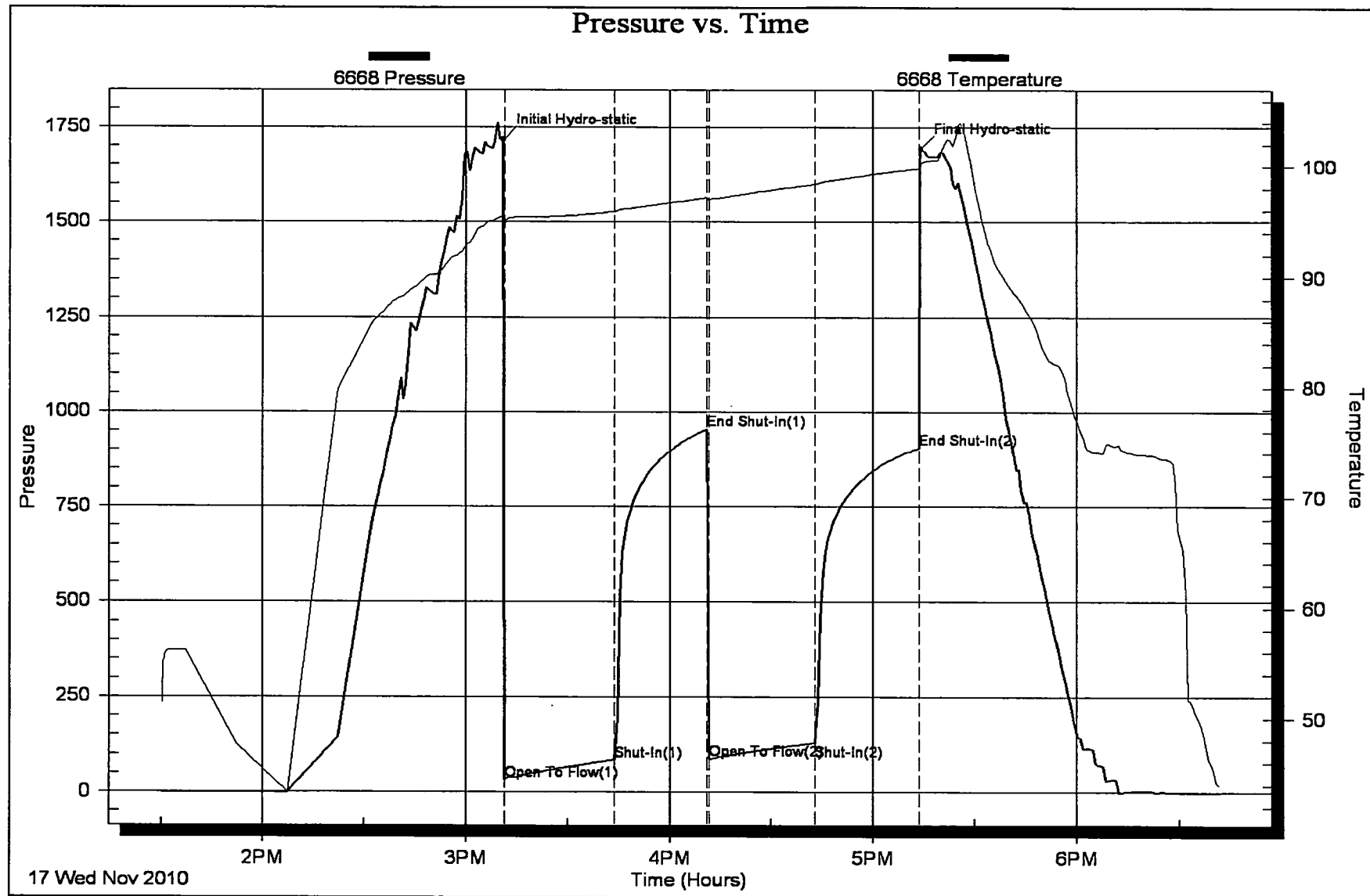
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	83000 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.37 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1900.00 ppm			
Filter Cake: inches			

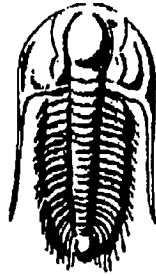
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	Muddy Water-85%W-15%M	2.946

Total Length: 210.00 ft Total Volume: 2.946 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Road
Hays, KS. 67601

ATTN: Herb Deines

9-15s-19w-Ellis,KS

Reichert #1

Start Date: 2010.11.18 @ 10:27:48

End Date: 2010.11.18 @ 16:19:18

Job Ticket #: 40893 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

TDI Inc.

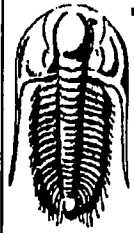
Reichert #1

9-15s-19w-Ellis,KS

DST # 3

Conglomerate Sand

2010.11.18



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

Reichert #1
9-15s-19w-Ellis,KS
Job Ticket: 40893 DST#: 3
Test Start: 2010.11.18 @ 10:27:48

Tool Information

Drill Pipe:	Length: 3658.00 ft	Diameter: 3.80 inches	Volume: 51.31 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: 38000.00 lb
			<u>Total Volume: 51.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 33000.00 lb
Depth to Top Packer:	3654.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	38.00 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			3634.00	
Shut In Tool	5.00			3639.00	
Hydraulic tool	5.00			3644.00	
Packer	5.00			3649.00	21.00 Bottom Of Top Packer
Packer	5.00			3654.00	
Stubb	1.00			3655.00	
Perforations	3.00			3658.00	
Recorder	0.00	6668	Inside	3658.00	
Recorder	0.00	8673	Outside	3658.00	
Perforations	10.00			3668.00	
Bullnose	3.00			3671.00	17.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc.
1310 Bison Road
Hays, KS. 67601

ATTN: Herb Deines

Reichert #1
9-15s-19w-Ellis,KS
Job Ticket: 40893 DST#: 3
Test Start: 2010.11.18 @ 10:27:48

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	30 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1900.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Clean Oil	0.561
10.00	MCO-70%O-30%M	0.140

Total Length: 50.00 ft Total Volume: 0.701 bbl

Num Fluid Samples: 0

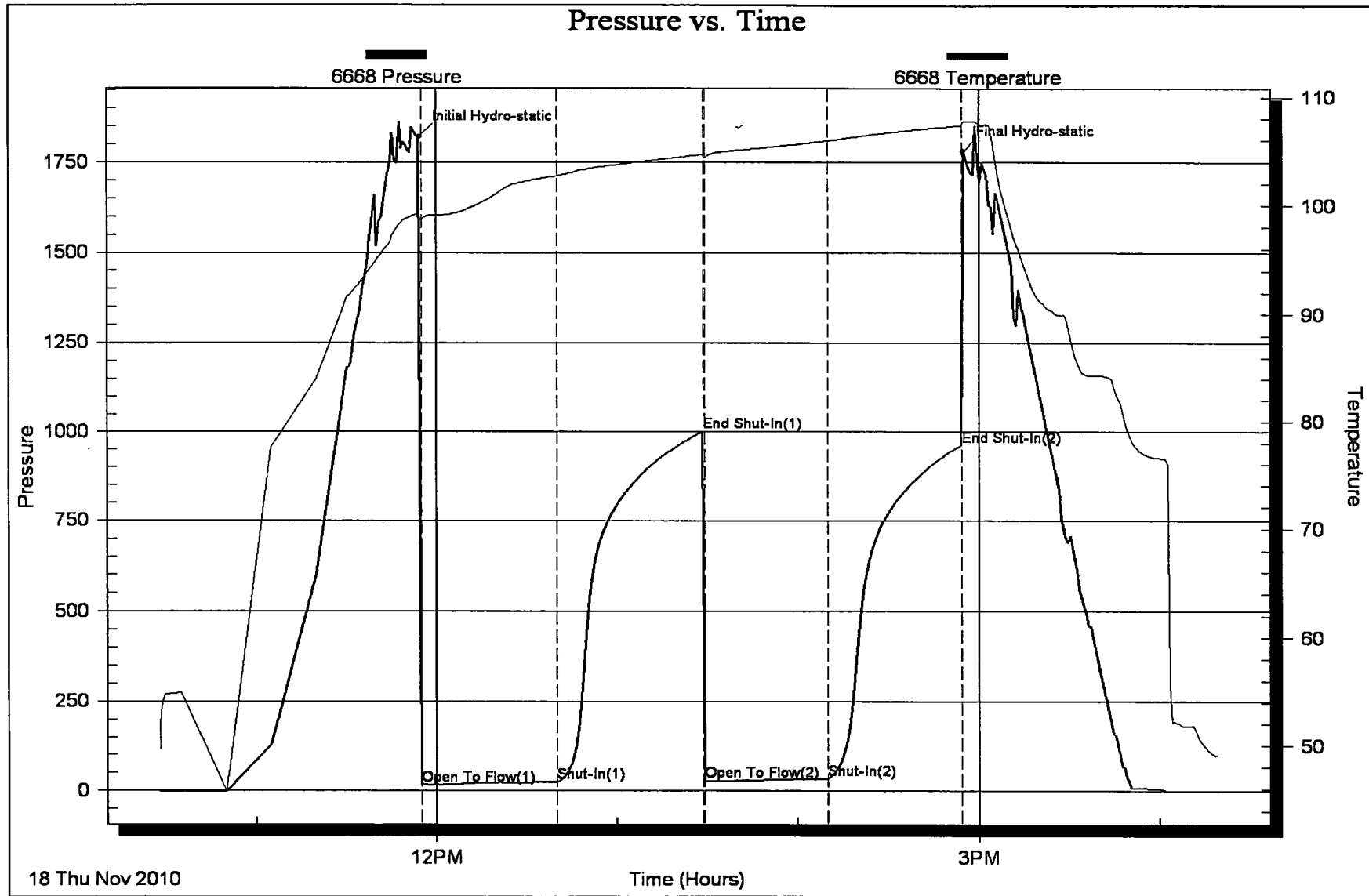
Num Gas Bombs: 0

Serial #:

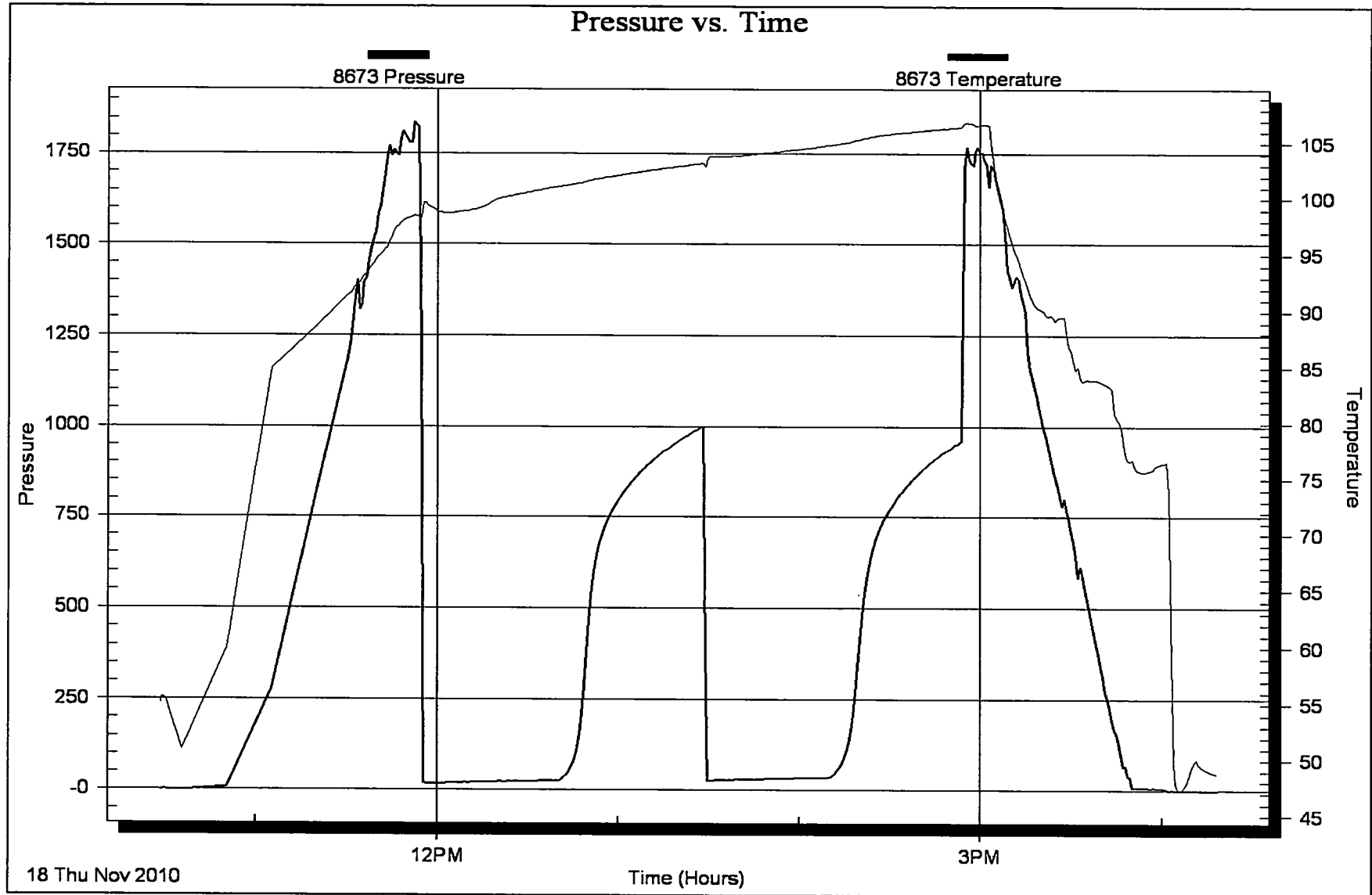
Laboratory Name:

Laboratory Location:

Recovery Comments:

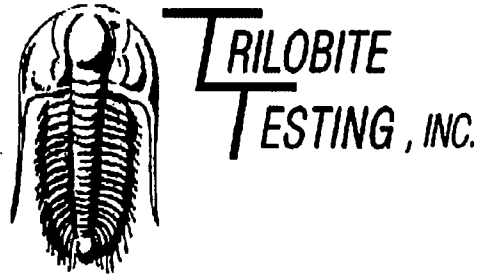


18 Thu Nov 2010



18 Thu Nov 2010

Time (Hours)



DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Road
Hays, KS. 67601

ATTN: Herb Deines

9-15s-19w-Ellis,KS

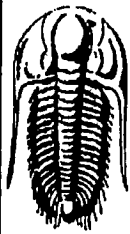
Reichert #1

Start Date: 2010.11.19 @ 07:24:34

End Date: 2010.11.19 @ 12:08:34

Job Ticket #: 40894 DST #: 4

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

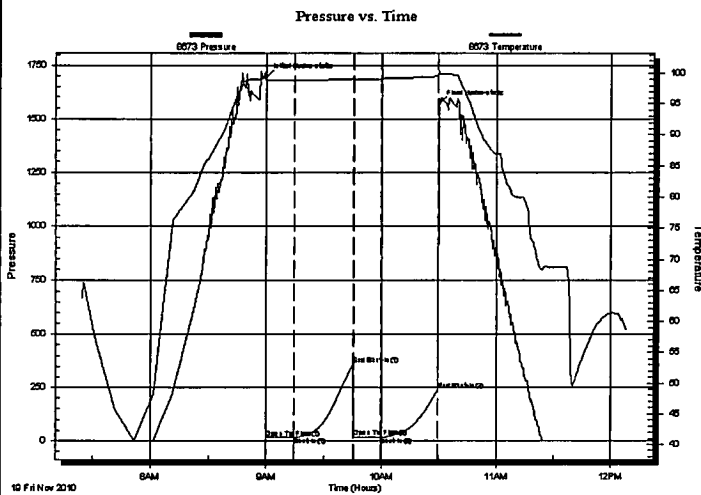
Reichert #1
9-15s-19w-Ellis,KS
Job Ticket: 40894 DST#: 4
Test Start: 2010.11.19 @ 07:24:34

GENERAL INFORMATION:

Formation: **C**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 08:59:49
 Time Test Ended: 12:08:34
 Interval: **3362.00 ft (KB) To 3399.00 ft (KB) (TVD)**
 Total Depth: **3755.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Straddle**
 Tester: **Jason McLemore**
 Unit No: **54**
 Reference Elevations: **2044.00 ft (KB)**
2034.00 ft (CF)
 KB to GR/CF: **10.00 ft**

Serial #: 8673 **Inside**
 Press@RunDepth: **16.48 psig @ 3370.00 ft (KB)**
 Start Date: **2010.11.19** End Date: **2010.11.19**
 Start Time: **07:24:36** End Time: **12:08:34**
 Capacity: **8000.00 psig**
 Last Calib.: **2010.11.19**
 Time On Btm: **2010.11.19 @ 08:59:34**
 Time Off Btm: **2010.11.19 @ 10:30:04**

TEST COMMENT: IFP-Weak Blow ,Built to 3/4"
 ISI-Dead
 FFP-Dead
 FSI-Dead



PRESSURE SUMMARY

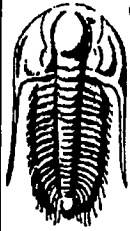
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1696.48	99.36	Initial Hydro-static
1	15.39	98.74	Open To Flow (1)
15	15.80	98.87	Shut-In(1)
46	356.69	99.17	End Shut-In(1)
46	15.91	99.03	Open To Flow (2)
60	16.48	99.16	Shut-In(2)
90	237.13	99.49	End Shut-In(2)
91	1571.85	99.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	SOCM-8%O-92%M	0.04

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

Reichert #1
9-15s-19w-Ellis,KS
Job Ticket: 40894 DST#: 4
Test Start: 2010.11.19 @ 07:24:34

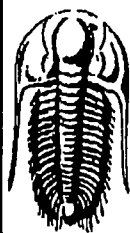
Tool Information

Drill Pipe:	Length: 3345.00 ft	Diameter: 3.80 inches	Volume: 46.92 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:	38000.00 lb
			<u>Total Volume: 46.92 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	34000.00 lb
Depth to Top Packer:	3362.00 ft			Final	34000.00 lb
Depth to Bottom Packer:	3399.00 ft				
Interval between Packers:	37.00 ft				
Tool Length:	414.00 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			3342.00	
Shut In Tool	5.00			3347.00	
Hydraulic tool	5.00			3352.00	
Packer	5.00			3357.00	21.00 Bottom Of Top Packer
Packer	5.00			3362.00	
Stubb	1.00			3363.00	
Perforations	7.00			3370.00	
Recorder	0.00	8673	Inside	3370.00	
Recorder	0.00	6755	Outside	3370.00	
Perforations	25.00			3395.00	
Blank Off Sub	1.00			3396.00	
Blank Spacing	3.00			3399.00	37.00 Tool Interval
Packer	1.00			3400.00	
Recorder	0.00	6668	Below	3400.00	
Change Over Sub	1.00			3401.00	
Blank Spacing	345.00			3746.00	
Change Over Sub	1.00			3747.00	
Perforations	5.00			3752.00	
Bullnose	3.00			3755.00	356.00 Bottom Packers & Anchor

Total Tool Length: 414.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc.
1310 Bison Road
Hays, KS. 67601

ATTN: Herb Deines

Reichert #1
9-15s-19w-Ellis, KS
Job Ticket: 40894 **DST#: 4**
Test Start: 2010.11.19 @ 07:24:34

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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.37 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1900.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	SOCM-8%O-92%M	0.042

Total Length: 3.00 ft Total Volume: 0.042 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

