



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1070704
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: _____

1070704

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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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

January 09, 2012

Tom Denning
TDI, Inc.
1310 BISON RD
HAYS, KS 67601-9696

Re: ACO1
API 15-051-26202-00-00
Irvin Trust 1
SW/4 Sec.13-15S-19W
Ellis County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Tom Denning



DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Rd
67601

Hays KS

ATTN: Herb Deines

Irvin Trust #1

13-15s-19w Ellis,KS

Start Date: 2011.11.07 @ 18:04:01

End Date: 2011.11.08 @ 01:12:31

Job Ticket #: 44839 DST #: 1

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

Printed: 2011.11.10 @ 11:18:04

TDI Inc. 13-15s-19w Ellis,KS Irvin Trust #1 DST # 1 Lansing "H-J" 2011.11.07



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TDI Inc.

13-15s-19w Ellis, KS

1310 Bison Rd

Hays KS 67601

Irvin Trust #1

Job Ticket: 44839

DST#: 1

ATTN: Herb Deines

Test Start: 2011.11.07 @ 18:04:01

GENERAL INFORMATION:

Formation: **Lansing "H-J"**

Deviated: No Whipstock: 3750.00 ft (KB)

Time Tool Opened: 20:06:31

Time Test Ended: 01:12:31

Test Type: Conventional Bottom Hole (Initial)

Tester: Paul Simpson

Unit No: 47

Interval: 3430.00 ft (KB) To 3500.00 ft (KB) (TVD)

Reference Elevations: 2015.00 ft (KB)

Total Depth: 3500.00 ft (KB) (TVD)

2005.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6753

Inside

Press @ Run Depth: 178.03 psig @ 3467.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.11.07

End Date:

2011.11.08

Last Calib.: 1899.12.30

Start Time: 18:04:06

End Time:

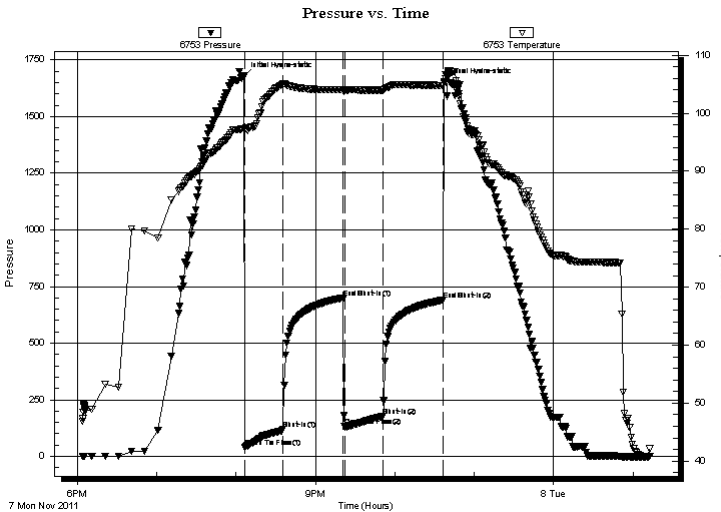
01:12:30

Time On Btm: 2011.11.07 @ 20:06:01

Time Off Btm: 2011.11.07 @ 22:37:31

TEST COMMENT: IF 1 inch blow building to bottom of bucket in 12 min
 ISI surface blow
 FF blow to bottom of bucket 16 min.
 FSI weak 1/2 " blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1678.96	97.38	Initial Hydro-static
1	41.81	97.05	Open To Flow (1)
30	118.41	105.07	Shut-In(1)
75	697.97	104.06	End Shut-In(1)
76	131.16	103.86	Open To Flow (2)
105	178.03	104.00	Shut-In(2)
151	690.03	104.78	End Shut-In(2)
152	1650.17	105.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	ocm 20% oil 80% mud	0.84
240.00	nw 90% water 10% mud	3.37
0.00	65' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI Inc.	13-15s-19w Ellis, KS	
1310 Bison Rd	Hays KS 67601	Irvin Trust #1
	Job Ticket: 44839	DST#: 1
ATTN: Herb Deines	Test Start: 2011.11.07 @ 18:04:01	

Tool Information

Drill Pipe:	Length: 3430.00 ft	Diameter: 3.80 inches	Volume: 48.11 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 48.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3430.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	91.00 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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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3410.00	
Shut In Tool	5.00			3415.00	
Hydraulic tool	5.00			3420.00	
Packer	5.00			3425.00	21.00 Bottom Of Top Packer
Packer	5.00			3430.00	
Stubb	1.00			3431.00	
Perforations	3.00			3434.00	
Change Over Sub	1.00			3435.00	
Drill Pipe	31.00			3466.00	
Change Over Sub	1.00			3467.00	
Recorder	0.00	6753	Inside	3467.00	
Recorder	0.00	8319	Outside	3467.00	
Perforations	30.00			3497.00	
Bullnose	3.00			3500.00	70.00 Bottom Packers & Anchor

Total Tool Length: 91.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc. **13-15s-19w Ellis,KS**
1310 Bison Rd Hays KS 67601 **Irvin Trust #1**
Job Ticket: 44839 **DST#: 1**
ATTN: Herb Deines Test Start: 2011.11.07 @ 18:04:01

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: 105000 ppm	
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	ocm 20% oil 80% mud	0.842
240.00	mw 90% water 10% mud	3.367
0.00	65' GIP	0.000

Total Length: 300.00 ft Total Volume: 4.209 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Rw .12@43

Serial #: 6753

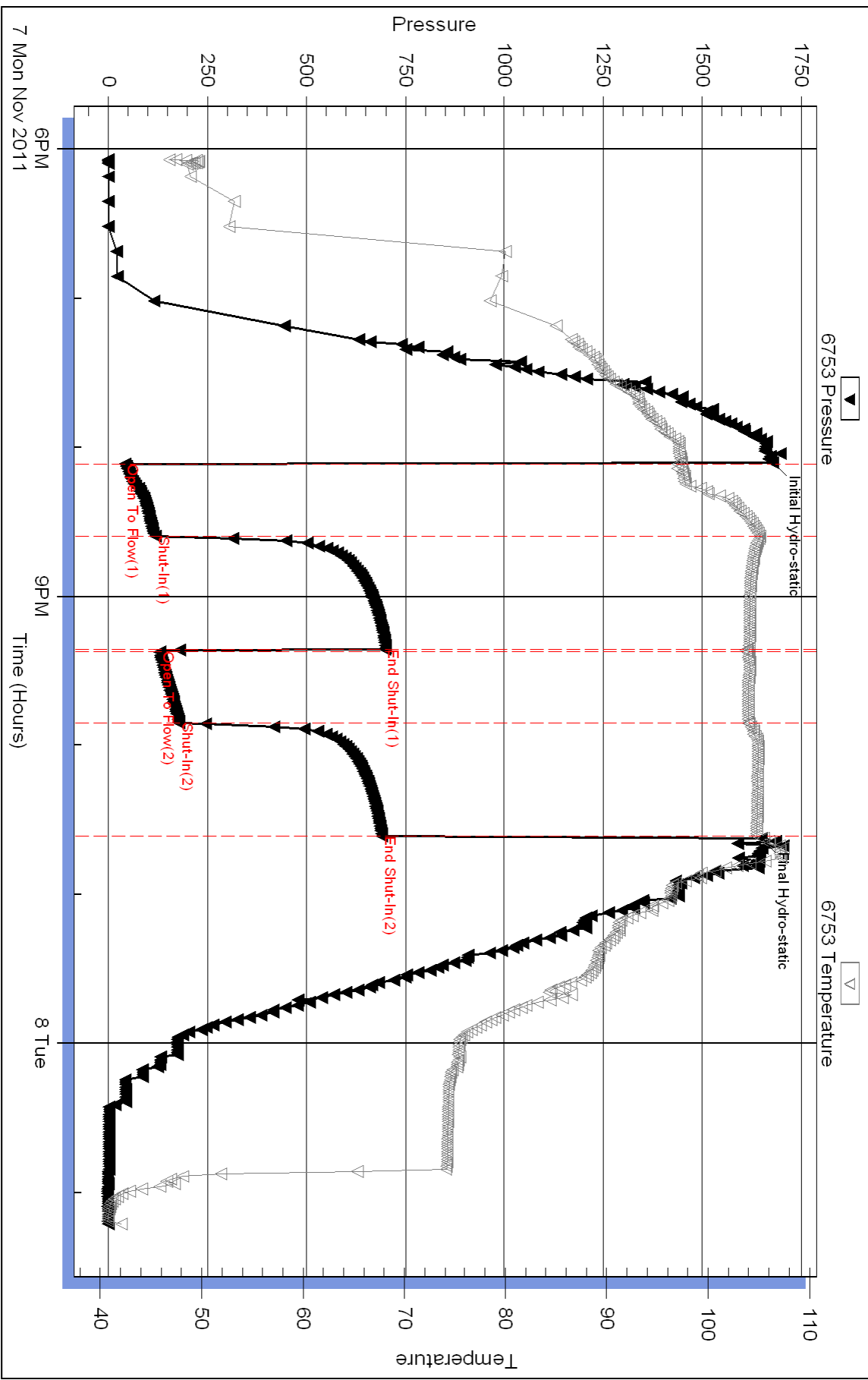
Inside

TDI Inc.

Irvin Trust #1

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 44839

Printed: 2011.11.10 @ 11:18:07



DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Rd
67601

Hays KS

ATTN: Herb Deines

Irvin Trust #1

13-15s-19w Ellis,KS

Start Date: 2011.11.09 @ 01:57:14

End Date: 2011.11.09 @ 09:30:44

Job Ticket #: 44840 DST #: 2

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

Printed: 2011.11.10 @ 11:18:45

TDI Inc.
13-15s-19w Ellis,KS
Irvin Trust #1
DST # 2
Lansing B-G
2011.11.09



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TDI Inc.

13-15s-19w Ellis, KS

1310 Bison Rd

Hays KS 67601

Irvin Trust #1

Job Ticket: 44840

DST#: 2

ATTN: Herb Deines

Test Start: 2011.11.09 @ 01:57:14

GENERAL INFORMATION:

Formation: **Lansing B-G**

Deviated: No Whipstock: 3750.00 ft (KB)

Time Tool Opened: 04:32:14

Time Test Ended: 09:30:44

Test Type: Conventional Straddle (Reset)

Tester: Paul Simpson

Unit No: 47

Interval: 3314.00 ft (KB) To 3425.00 ft (KB) (TVD)

Reference Elevations: 2015.00 ft (KB)

Total Depth: 3750.00 ft (KB) (TVD)

2005.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6753 Outside

Press @ Run Depth: 509.79 psig @ 3414.50 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.11.09

End Date:

2011.11.09

Last Calib.:

2011.11.10

Start Time: 01:57:19

End Time:

09:30:43

Time On Btm:

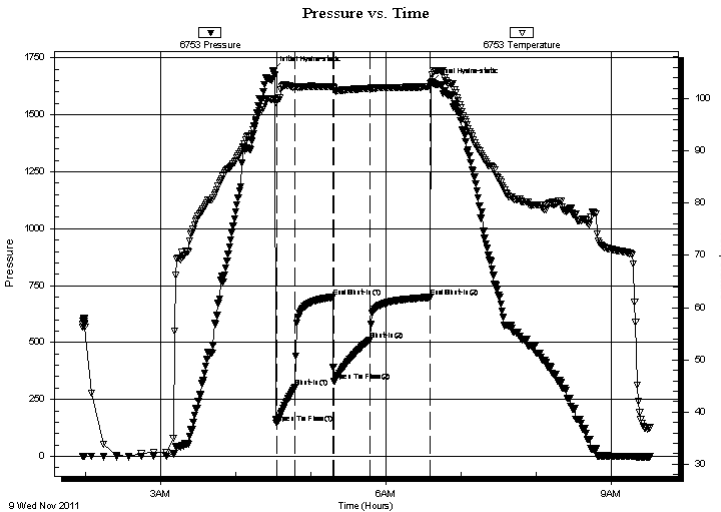
2011.11.09 @ 04:29:14

Time Off Btm:

2011.11.09 @ 06:35:44

TEST COMMENT: IF strong blow bottom of bucket in 1 min
 ISI 1/4" blow in 1 1/2 min.
 FF strong blow in bottom of bucket in 2 min.
 fSI surface blow building to 3 "

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1695.56	99.97	Initial Hydro-static
3	144.17	99.66	Open To Flow (1)
18	301.99	102.16	Shut-In(1)
48	699.32	102.28	End Shut-In(1)
49	330.31	101.83	Open To Flow (2)
78	509.79	101.95	Shut-In(2)
126	698.45	102.28	End Shut-In(2)
127	1641.62	102.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
420.00	sosmw 3% o 92& water 5% m	5.89
360.00	gsy o&mcw 20%g 20%o 25%w 15%m	5.05
280.00	gsy o&w cm 15%g 15%o 30%w 30%m	3.93
50.00	socm 5%o 95%m	0.70
0.00	520' gip	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI Inc. **13-15s-19w Ellis, KS**
 1310 Bison Rd Hays KS 67601 **Irvin Trust #1**
 Job Ticket: 44840 **DST#: 2**
 A T T N : Herb Deines Test Start: 2011.11.09 @ 01:57:14

Tool Information

Drill Pipe:	Length: 3305.00 ft	Diameter: 3.80 inches	Volume: 46.36 bbl	Tool Weight: 8000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 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: 46.36 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3314.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	3418.50 ft			
Interval between Packers:	104.50 ft			
Tool Length:	453.50 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			3295.00	
Shut In Tool	5.00			3300.00	
Hydraulic tool	5.00			3305.00	
Packer	4.00			3309.00	20.00 Bottom Of Top Packer
Packer	5.00			3314.00	
Stubb	1.00			3315.00	
Perforations	3.00			3318.00	
Change Over Sub	1.50			3319.50	
Blank Spacing	94.00			3413.50	
Change Over Sub	1.00			3414.50	
Recorder	0.00	8319	Inside	3414.50	
Recorder	0.00	6753	Outside	3414.50	
Blank Off Sub	4.00			3418.50	104.50 Tool Interval
Packer	4.00			3422.50	
Stubb	1.00			3423.50	
Recorder	0.00	8369	Below	3423.50	
perforations	7.00			3430.50	
Change Over Sub	1.00			3431.50	
Blank Spacing	312.00			3743.50	
Change Over Sub	1.00			3744.50	
Bullnose	3.00			3747.50	329.00 Bottom Packers & Anchor

Total Tool Length: 453.50



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc. **13-15s-19w Ellis,KS**
 1310 Bison Rd Hays KS 67601 **Irvin Trust #1**
 Job Ticket: 44840 **DST#: 2**
 ATTN: Herb Deines Test Start: 2011.11.09 @ 01:57:14

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	120000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume:		
Water Loss: 6.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure:		psig
Salinity: ppm			
Filter Cake: inches			

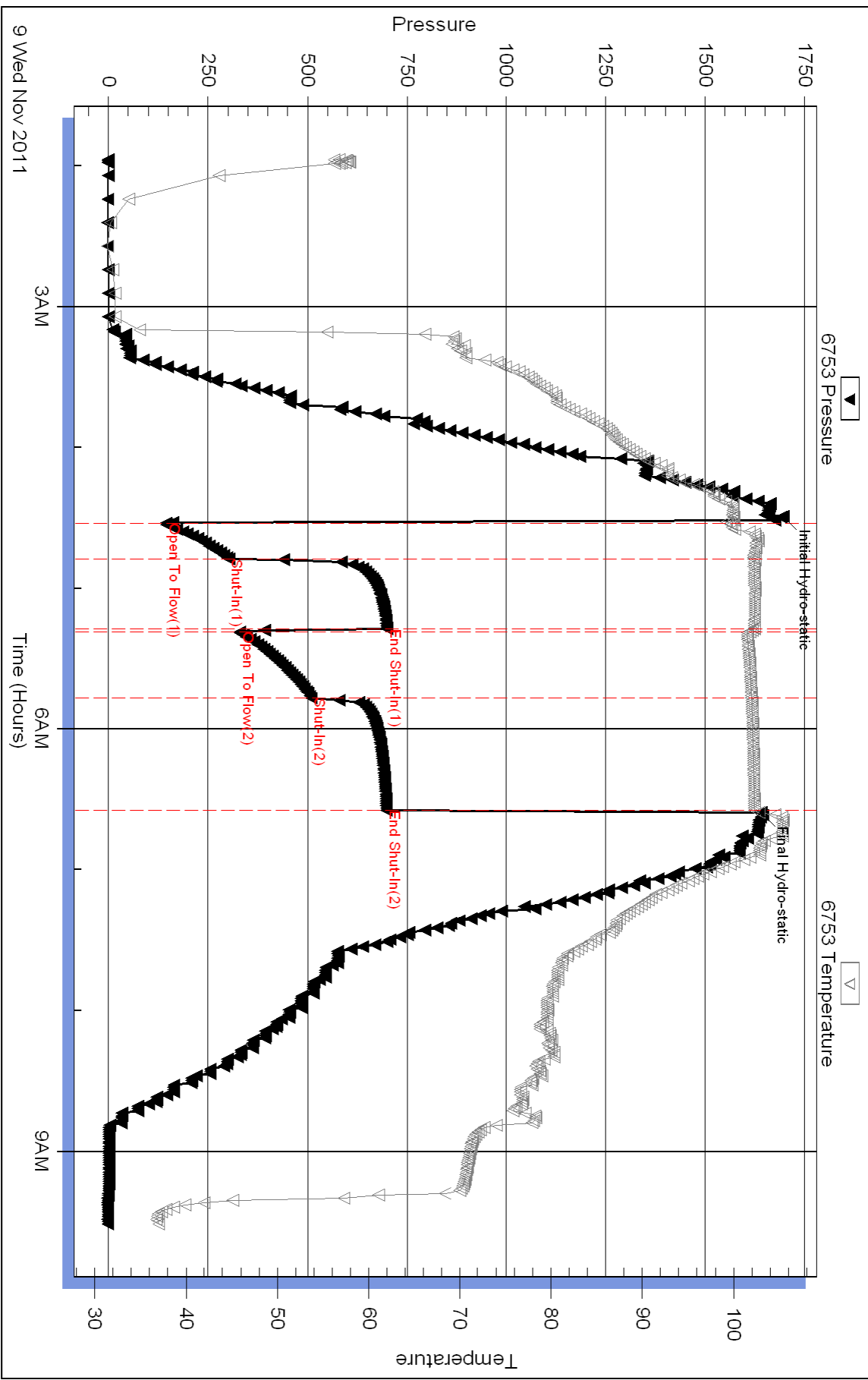
Recovery Information

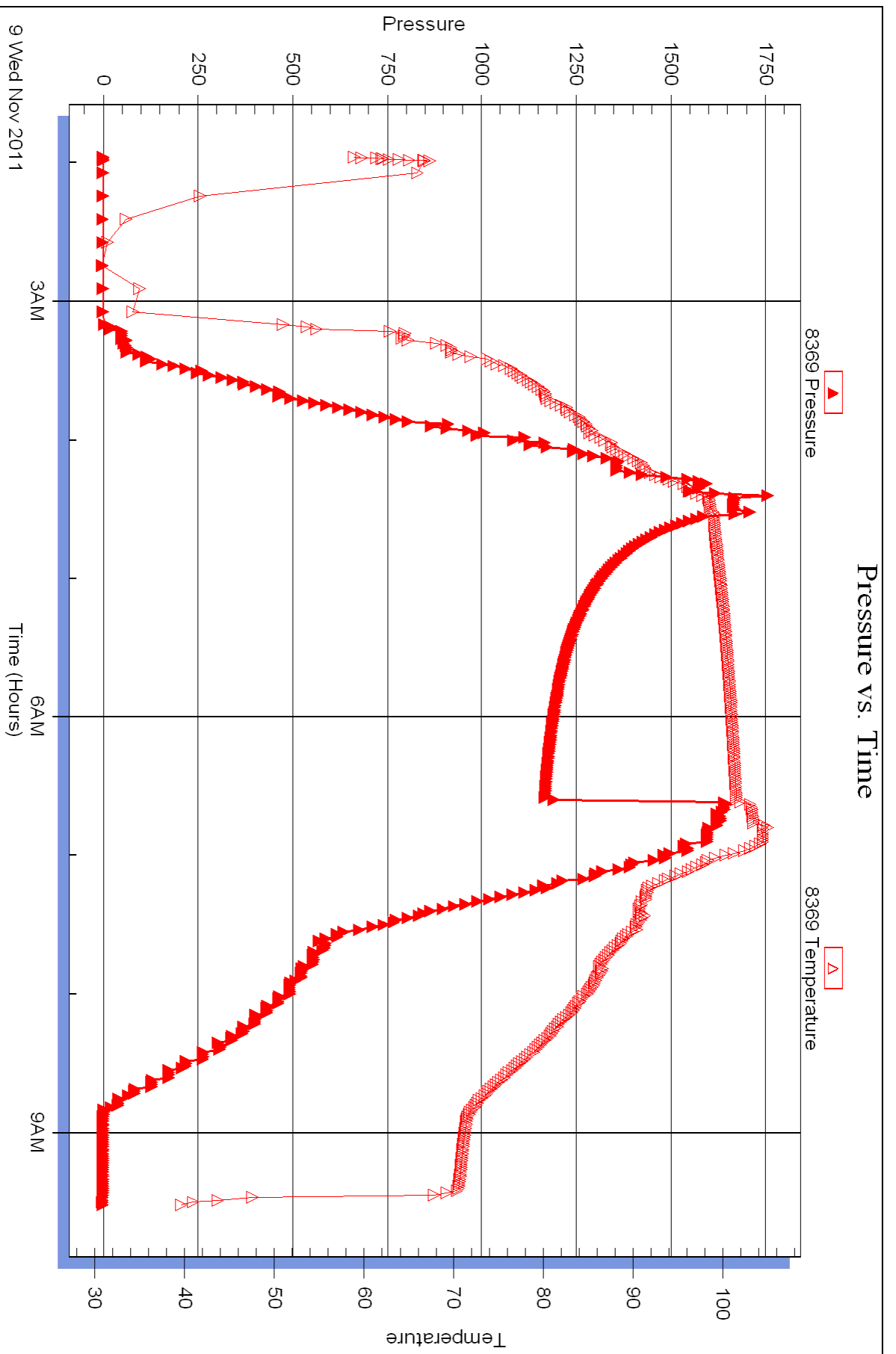
Recovery Table

Length ft	Description	Volume bbl
420.00	sosmw 3% o 92& water 5% m	5.891
360.00	gsy o&mcw 20%g 20%o 25%w 15%m	5.050
280.00	gsy o&w cm 15%g 15%o 30%w 30%m	3.928
50.00	socm 5%o 95%m	0.701
0.00	520' gip	0.000

Total Length: 1110.00 ft Total Volume: 15.570 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Rw .1 @ 50

Pressure vs. Time







TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
NOV 08 2011

Test Ticket

NO. 44839

4/10

BY: _____

Well Name & No. IRVIN Trust #1 Test No. 1 Date 11-7-11
 Company TDI Inc Elevation 2015 KB 2005 GL
 Address 1310 Bison Rd. Hays KS 67601
 Co. Rep / Geo. Herb Deives Rig Southwind #1
 Location: Sec. 13 Twp. 15 Rge. 19 Co. Ellis State KS

Interval Tested 3430-3500 Zone Tested HFI
 Anchor Length 70 Drill Pipe Run _____ Mud Wt. 9
 Top Packer Depth 3425 Drill Collars Run _____ Vis 50
 Bottom Packer Depth 3430 Wt. Pipe Run _____ WL 6.8
 Total Depth 3500 Chlorides _____ ppm System LCM 2

Blow Description ~~FF~~ Blow to Bottom of Bucket 12 min
 ISI Surface Blow
 FF Blow to Bottom of Bucket 16 min
 FSI Weak 1/2 IN. Blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	Feet of <u>OCM</u>	<u>20</u>		<u>80</u>	
<u>240</u>	Feet of <u>MW</u>		<u>90</u>	<u>10</u>	
<u>65</u>	Feet of <u>STP</u>				
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 305 BHT Gravity _____ API RW .12 @ 43° F Chlorides 105000 ppm
 (A) Initial Hydrostatic 1679 Test 1125 T-On Location 1600
 (B) First Initial Flow 42 Jars _____ T-Started 1804
 (C) First Final Flow 818 Safety Joint _____ T-Open 2007
 (D) Initial Shut-In 698 Circ Sub _____ T-Pulled 2237
 (E) Second Initial Flow 131 Hourly Standby _____ T-Out 1:12
 (F) Second Final Flow 178 Mileage 30 Rt 42 Comments _____
 (G) Final Shut-In 690 Sampler _____
 (H) Final Hydrostatic 1650 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____

Initial Open ~~200~~ 30
 Initial Shut-In ~~200~~ 45
 Final Flow ~~200~~ 30
 Final Shut-In ~~200~~ 45
 Sub Total 1167
 Total 1167
 MP/DST Disc't _____

Approved By _____ Our Representative Paul & Jim

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.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
NOV 09 2011

Test Ticket

NO. 44840

4/10

BY: _____

Well Name & No. Irvin Trust #1 Test No. 2 Date 11-9-11
 Company TDI Inc. Elevation 2015 KB 2005 GL
 Address 1310 Bison Rd. Hays Ks. 67601
 Co. Rep / Geo. Herb Deines Rig South Wind #1
 Location: Sec. 13 Twp. 15 Rge. 19 Co. Ellis State KS

Interval Tested 3314-3425 Zone Tested Lansing B-G
 Anchor Length 111 Drill Pipe Run 3305 Mud Wt. 9.2
 Top Packer Depth 3309-3314 Drill Collars Run _____ Vis 52
 Bottom Packer Depth 3425 Wt. Pipe Run _____ WL 6.8
 Total Depth 3750 Chlorides 2900 ppm System LCM 1

Blow Description IF. Strong Blow Bottom of Bucket 1min
FSI 25 in. Blow 1.5 min
FF Strong Blow Bottom of Bucket 2 min
FSF 1/4 in. blow building to 3 inches

Rec	Feet of	%gas	%oil	%water	%mud
420	505 MW	3	92	5	
360	507 MW	20	25	15	
280	509 MW	15	30	30	
50	50 CM	5		95	
520	G-IP				

Rec Total 1110 BHT _____ Gravity _____ API RW 1 @ 50 ° F Chlorides 12000 ppm

(A) Initial Hydrostatic 1696 Test 1125 T-On Location 0105
 (B) First Initial Flow 144 Jars _____ T-Started 0150
 (C) First Final Flow 302 Safety Joint _____ T-Open 0429
 (D) Initial Shut-In 699 Circ Sub _____ T-Pulled 0635
 (E) Second Initial Flow 330 Hourly Standby _____ T-Out 0930
 (F) Second Final Flow 510 Mileage 30 RT 42 Comments _____
 (G) Final Shut-In 698 Sampler _____
 (H) Final Hydrostatic 1642 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 15 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1767
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1767

Approved By _____ Our Representative Paul + Jim

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.

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PH. 785-625-3380
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HERB DEINES
CONSULTING GEOLOGIST

COMPANY **TDI Inc.**
WELL **Lawrence #1**

COUNTY **Ellis** STATE **Kansas**

LOCATION: **108th St & 1650' East, Sec 4**
SEC **13** TWP. **15N** R. **12E**
Elevations
KB **2015**
DF
GL **8005**

Logging by:
Log - **13** TWP. **15N** R. **12E**
1 Dual 1" Lubricated Long Log
2 Dual Compressed Airability Log
3 Dual Resistivity Log
Contractor **Sea-Third Oil-Int. Co. #1**
Completed **11-09-2011**
Comment **11-02-2011** LTD 3749
LTD 3750
Surface casing **8 3/8" SST to 1822' / 3750' SMD**
Production casing **5 1/2" SST**

Date	Depth	Activity	Date	Depth	Activity
11-02	1070'	Spud 8200ft			
11-03	1070'	Drill string out			
11-04	1080'	Dial plug			
11-05	2180'	Dial plug			
11-06	2840'	Dial plug			
11-07	3110'	Dial plug			
11-08	3410'	RTD Loss - DST #2			
11-09	3750'	Finish DST #2 Runway			

REMARKS: Recommendation to run casing based on numerous shows, favorable structure and positive results of DST #2

Formation	Sample	Log	Datum	* Formation	Sample	Log	Datum	*
Anhydrite Top		1203	+ 812					
Anhydrite Base		1208	+ 798					
Topoka	2976	2977	- 912					
Hebeava Shale	3260	3260	- 1245					
Toronto	3280	3280	- 1265					
LHC	3307	3306	- 1291					
BHC	3551	3550	- 1535					
Conglomerate Sand		3614	- 1599					
Anhydrite		3622	- 1607					
ATD	3750							
LTD		3749	- 1734					

* Structural Position to:

LEGEND

SCALE " = 100'

