



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1094636  
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
-----------------------------------	-----------------	---

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: \_\_\_\_\_

1094636

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)*

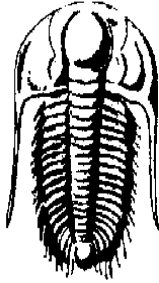
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
--	---	---



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **TDI, Inc.**

1310 Bison Road  
Hays, KS 67601

ATTN: Herb Deines

**Scott #2**

**10-15s-19w Ellis,KS**

Start Date: 2012.08.27 @ 21:08:23

End Date: 2012.08.28 @ 04:29:53

Job Ticket #: 47857                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.10 @ 15:08:47

TDI, Inc.  
10-15s-19w Ellis,KS  
Scott #2  
DST # 1  
A-B-C  
2012.08.27



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

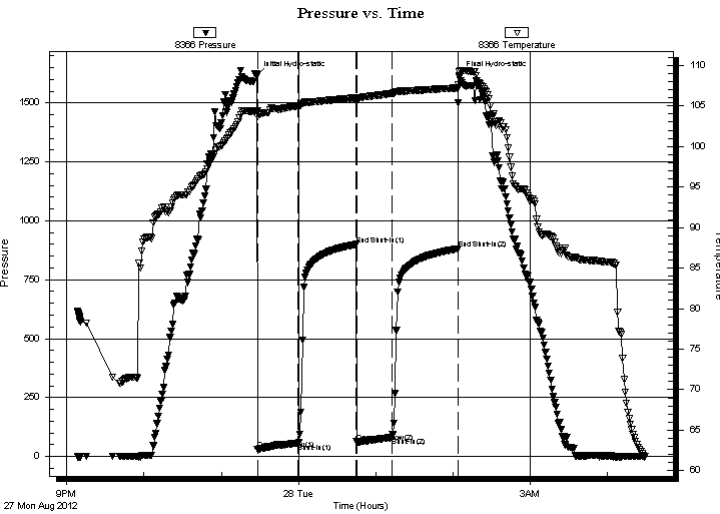
**10-15s-19w Ellis, KS**  
**Scott #2**  
 Job Ticket: 47857      **DST#: 1**  
 Test Start: 2012.08.27 @ 21:08:23

## GENERAL INFORMATION:

Formation: **A-B-C**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 23:28:08  
 Time Test Ended: 04:29:53  
 Interval: **3336.00 ft (KB) To 3385.00 ft (KB) (TVD)**  
 Total Depth: 3385.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jason McLemore  
 Unit No: 54  
 Reference Elevations: 2048.00 ft (KB)  
 2040.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8366 Inside**  
 Press @ Run Depth: 80.37 psig @ 3372.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.08.27 End Date: 2012.08.28 Last Calib.: 2012.08.28  
 Start Time: 21:08:25 End Time: 04:29:53 Time On Btm: 2012.08.27 @ 23:27:53  
 Time Off Btm: 2012.08.28 @ 02:04:53

TEST COMMENT: IFP-Weak Blow , Built to 4-1/4"  
 ISI-Dead  
 FFP-Weak Blow , Built to 4-1/4"  
 FSI-Dead



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1618.12	104.45	Initial Hydro-static
1	29.26	103.66	Open To Flow (1)
32	57.43	105.02	Shut-In(1)
77	899.51	106.00	End Shut-In(1)
78	61.60	105.74	Open To Flow (2)
105	80.37	106.54	Shut-In(2)
156	881.39	107.21	End Shut-In(2)
157	1615.94	109.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
70.00	Watery Mud-50%W-50%M	0.98

## 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

**10-15s-19w Ellis,KS**  
**Scott #2**  
Job Ticket: 47857      **DST#: 1**  
Test Start: 2012.08.27 @ 21:08:23

**Tool Information**

Drill Pipe:	Length: 3346.00 ft	Diameter: 3.80 inches	Volume: 46.94 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: 46.94 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	35000.00 lb
Depth to Top Packer:	3336.00 ft			Final	35000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	49.00 ft				
Tool Length:	70.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

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	
Perforations	2.00			3339.00	
Change Over Sub	1.00			3340.00	
Blank Spacing	31.00			3371.00	
Change Over Sub	1.00			3372.00	
Recorder	0.00	8366	Inside	3372.00	
Recorder	0.00	8289	Outside	3372.00	
Perforations	10.00			3382.00	
Bullnose	3.00			3385.00	49.00      Bottom Packers & Anchor

**Total Tool Length: 70.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

TDI, Inc.

**10-15s-19w Ellis,KS**

1310 Bison Road  
Hays, KS 67601

**Scott #2**

Job Ticket: 47857

**DST#: 1**

ATTN: Herb Deines

Test Start: 2012.08.27 @ 21:08:23

## 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:

33000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
70.00	Watery Mud-50%W-50%M	0.982

Total Length: 70.00 ft      Total Volume: 0.982 bbf

Num Fluid Samples: 0

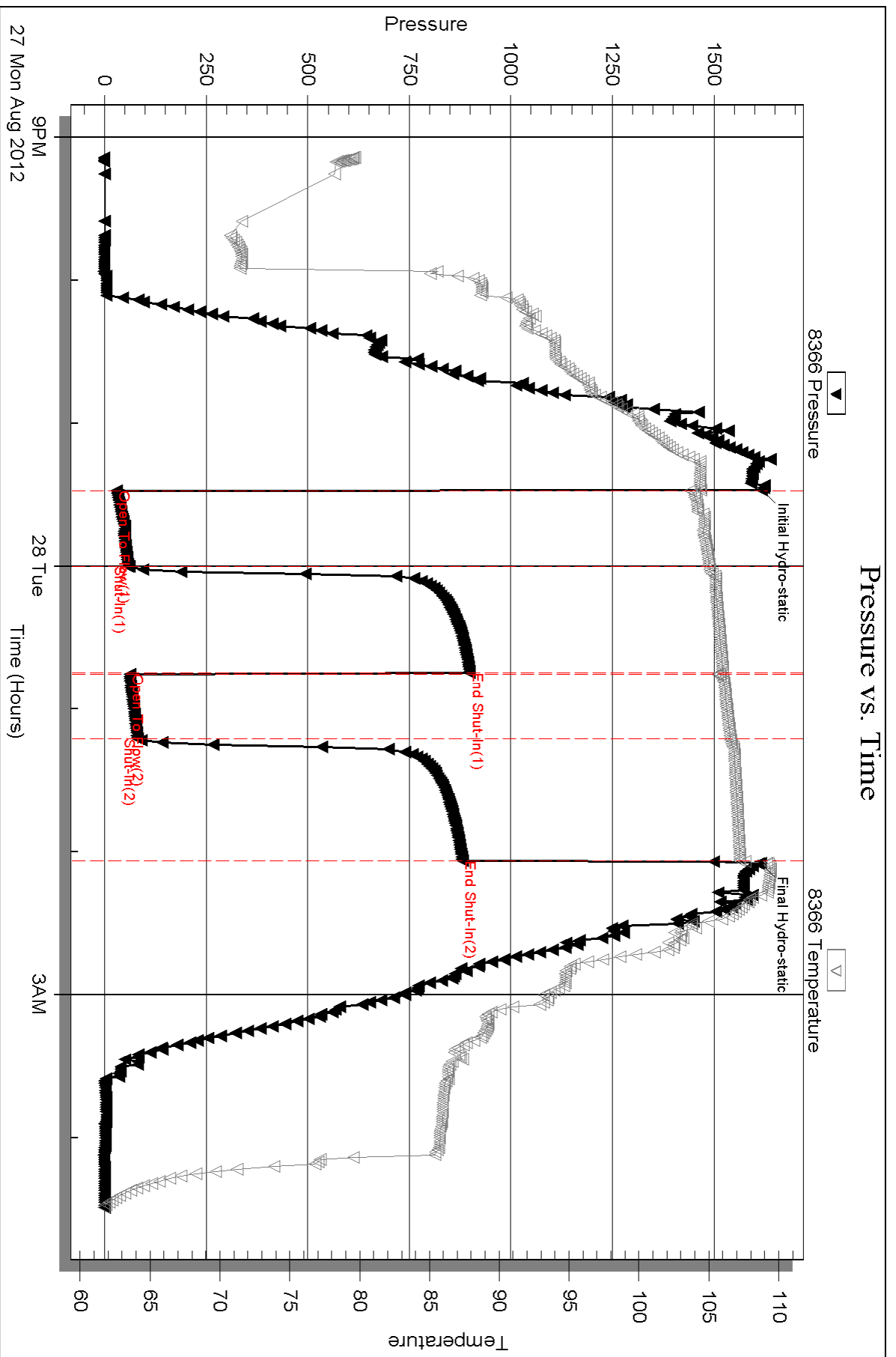
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



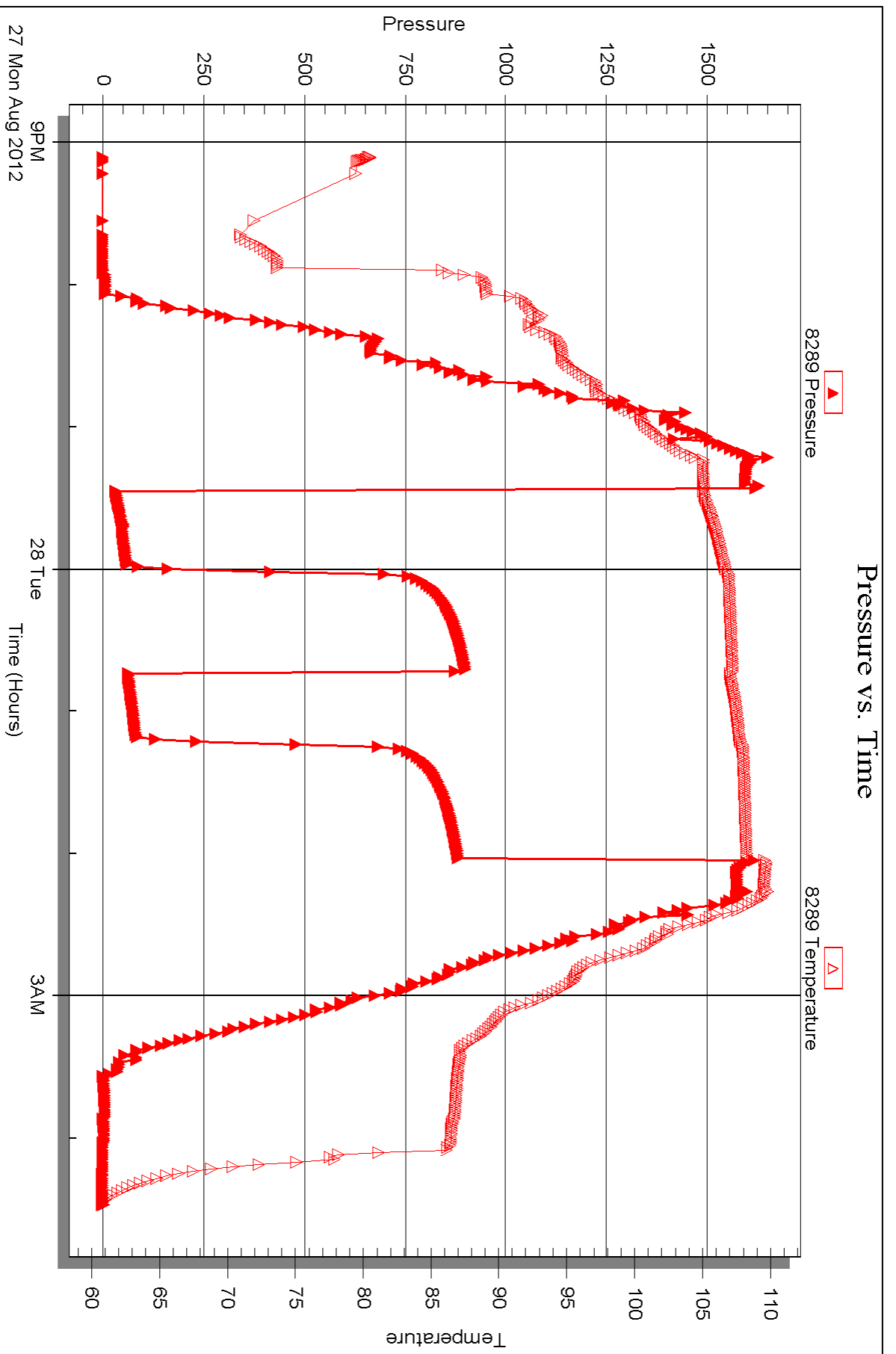


Serial #: 8289

Outside TDI, Inc.

Scott #2

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **TDI, Inc.**

1310 Bison Road  
Hays, KS 67601

ATTN: Herb Deines

### **Scott #2**

### **10-15s-19w Ellis,KS**

Start Date: 2012.08.28 @ 17:47:41

End Date: 2012.08.29 @ 01:01:26

Job Ticket #: 47858                      DST #: 2

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

Printed: 2012.09.10 @ 15:08:04

TDI, Inc.  
10-15s-19w Ellis,KS  
Scott #2  
DST # 2  
H-I-J  
2012.08.28



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**10-15s-19w Ellis,KS**  
**Scott #2**  
Job Ticket: 47858 **DST#: 2**  
Test Start: 2012.08.28 @ 17:47:41

## GENERAL INFORMATION:

Formation: **H-I-J**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 20:00:56  
 Time Test Ended: 01:01:26  
 Interval: **3464.00 ft (KB) To 3565.00 ft (KB) (TVD)**  
 Total Depth: 3545.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jason McLemore  
 Unit No: 54  
 Reference Elevations: 2048.00 ft (KB)  
 2040.00 ft (CF)  
 KB to GR/CF: 8.00 ft

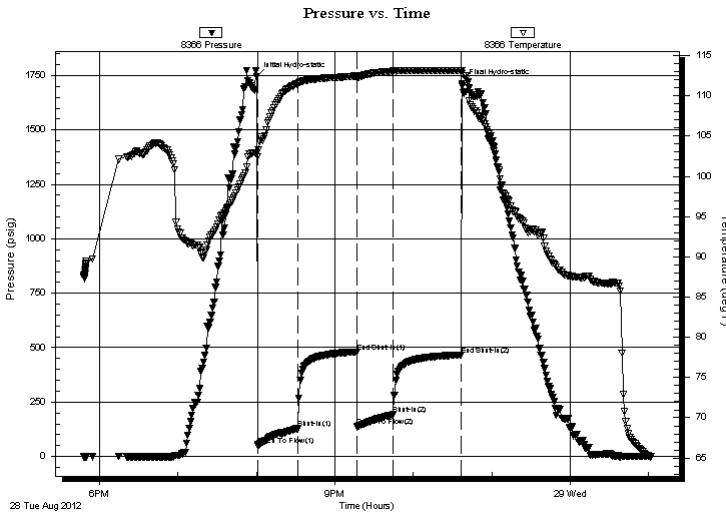
## Serial #: 8366

Inside

Press @ Run Depth: 192.20 psig @ 3532.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.08.28 End Date: 2012.08.29 Last Calib.: 2012.08.29  
 Start Time: 17:47:43 End Time: 01:01:26 Time On Btm: 2012.08.28 @ 20:00:11  
 Time Off Btm: 2012.08.28 @ 22:37:11

TEST COMMENT: IFP-Good Blow , BOB in 17 Min.  
 ISI-Dead  
 FFP-Fair, Built to 9"  
 FSI-Dead

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1744.62	102.97	Initial Hydro-static
1	52.26	102.42	Open To Flow (1)
32	127.79	111.53	Shut-In(1)
77	480.85	112.48	End Shut-In(1)
77	136.94	112.29	Open To Flow (2)
105	192.20	113.07	Shut-In(2)
157	466.78	113.14	End Shut-In(2)
157	1711.85	113.16	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
305.00	Watery Mud W/Oil Scum-70%M-30%W	4.28

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**10-15s-19w Ellis,KS**  
**Scott #2**  
Job Ticket: 47858      **DST#: 2**  
Test Start: 2012.08.28 @ 17:47:41

**Tool Information**

Drill Pipe:	Length: 3468.00 ft	Diameter: 3.80 inches	Volume: 48.65 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	40000.00 lb
			<u>Total Volume: 48.65 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	35000.00 lb
Depth to Top Packer:	3464.00 ft			Final	36000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	81.00 ft				
Tool Length:	102.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			3444.00	
Shut In Tool	5.00			3449.00	
Hydraulic tool	5.00			3454.00	
Packer	5.00			3459.00	21.00      Bottom Of Top Packer
Packer	5.00			3464.00	
Stubb	1.00			3465.00	
Perforations	2.00			3467.00	
Change Over Sub	1.00			3468.00	
Blank Spacing	63.00			3531.00	
Change Over Sub	1.00			3532.00	
Recorder	0.00	8366	Inside	3532.00	
Recorder	0.00	8289	Outside	3532.00	
Perforations	10.00			3542.00	
Bullnose	3.00			3545.00	81.00      Bottom Packers & Anchor

**Total Tool Length: 102.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

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

**10-15s-19w Ellis,KS**  
**Scott #2**  
Job Ticket: 47858      **DST#: 2**  
Test Start: 2012.08.28 @ 17:47:41

**Mud and Cushion Information**

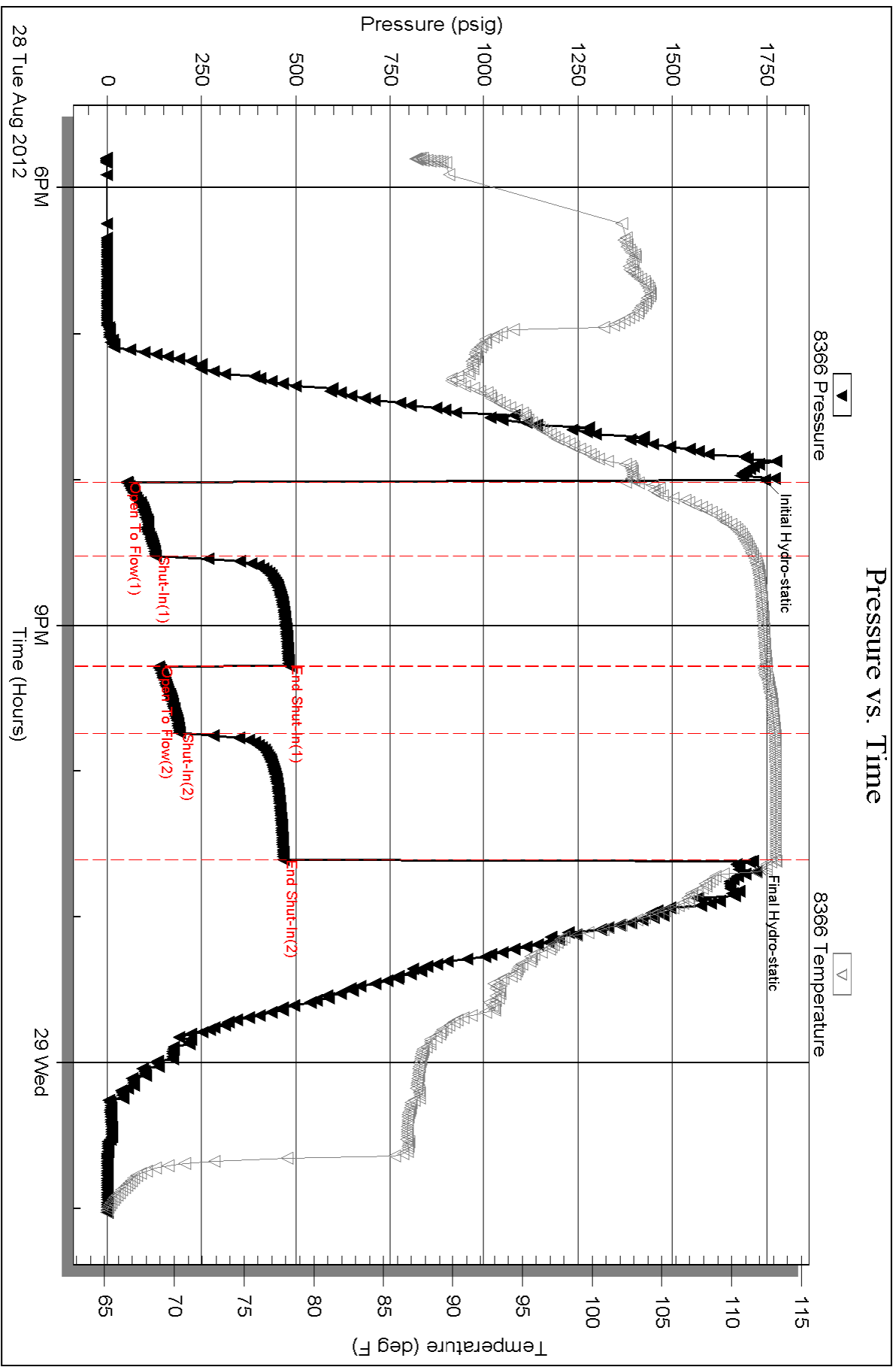
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	20500 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3900.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
305.00	Watery Mud W/Oil Scum-70%M-30%W	4.278

Total Length: 305.00 ft      Total Volume: 4.278 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

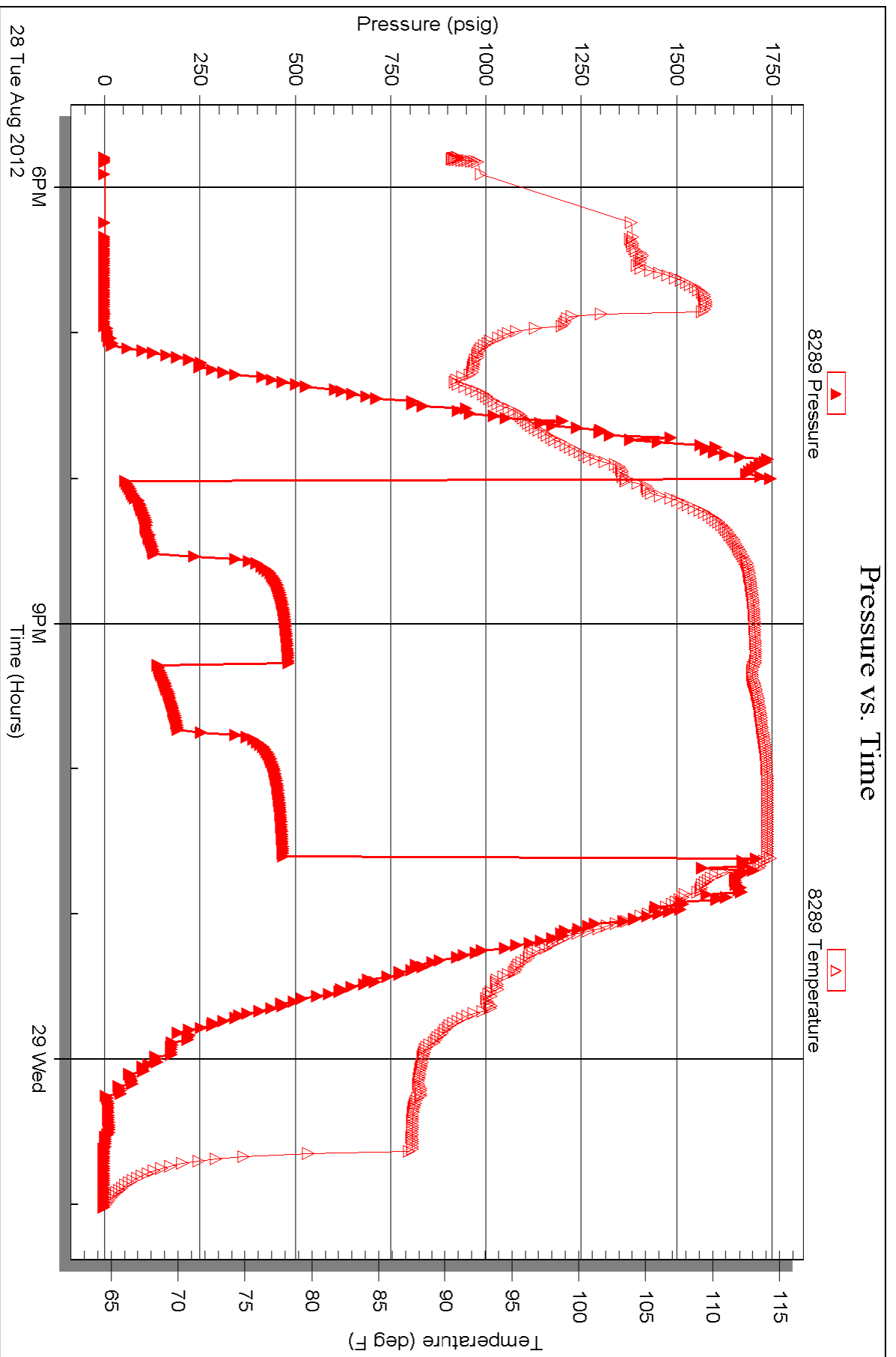


Serial #: 8289

Outside TDI, Inc.

Scott #2

DST Test Number: 2

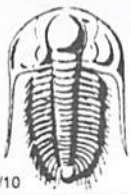


Triobite Testing, Inc

Ref. No: 47858

Printed: 2012.09.10 @ 15:08:09





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47857

Well Name & No. Scott #2 Test No. 1 Date 8-27-12  
 Company TDI, Inc. Elevation 2048 KB 2040 GL  
 Address 1310 Bison Road, Hays, KS 67601  
 Co. Rep / Geo. Herb Deines Rig Southwind #4  
 Location: Sec. 10 Twp. 15s Rge. 19w Co. Ellis State KS

Interval Tested 3336 - 3385 Zone Tested ABC  
 Anchor Length 49' Drill Pipe Run 3346 Mud Wt. 8.9  
 Top Packer Depth 3331 Drill Collars Run 0 Vis 5.4  
 Bottom Packer Depth 3336 Wt. Pipe Run 0 WL 7.2  
 Total Depth 3385 Chlorides 3,900 ppm System LCM 1<sup>st</sup>  
 Blow Description IFP - Weak Blow, Built to 4 1/4"  
ISI - Dead  
FFP - Weak Blow, Built to 4 1/4"  
FSI - Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>Watery Mud</u>		<u>50</u>	<u>50</u>	
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

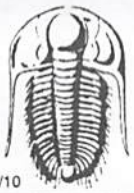
Rec Total 70 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW 1230 @ 65 °F Chlorides 31,000 ppm

(A) Initial Hydrostatic 1618  Test 1150 T-On Location 20:56  
 (B) First Initial Flow 29  Jars \_\_\_\_\_ T-Started 21:06  
 (C) First Final Flow 57  Safety Joint \_\_\_\_\_ T-Open 23:27  
 (D) Initial Shut-In 900  Circ Sub \_\_\_\_\_ T-Pulled 1:57  
 (E) Second Initial Flow 62  Hourly Standby \_\_\_\_\_ T-Out 4:31  
 (F) Second Final Flow 80  Mileage 24 ft 37.20 Comments \_\_\_\_\_  
 (G) Final Shut-In 881  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1616  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  Shale Packer \_\_\_\_\_  
 Initial Shut-In 45  Extra Packer \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_  
 Final Shut-In 45  Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1187.20 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_

Our Representative Jason McLenon

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

## Test Ticket

NO. 47858

Well Name & No. Scott # 2 Test No. 2 Date 8-28-12  
 Company TDI, Inc Elevation 2048 KB 2040 GL  
 Address 1310 Bison Road, Hays, KS, 67601  
 Co. Rep / Geo. Herb Deines Rig Southwind # 4  
 Location: Sec. 10 Twp. 15s Rge. 19w Co. Ellis State KS

Interval Tested 3464-3545 Zone Tested H-I-J  
 Anchor Length 81 Drill Pipe Run 3468 Mud Wt. 9.2  
 Top Packer Depth 3459 Drill Collars Run 0 Vis 58  
 Bottom Packer Depth 3464 Wt. Pipe Run 0 WL 7.2  
 Total Depth 3545 Chlorides 4,000 ppm System LCM 2<sup>#</sup>  
 Blow Description IFP - Good Blow, BOB in 17 min.  
ISF - Dead  
FFP - Fair, Built to 9'  
FSI - Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>305</u>	<u>Watery Mud w/Oil scum</u>		<u>30</u>	<u>70</u>	
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 305 BHT 112° Gravity \_\_\_\_\_ API RW 293 @ 71 ° F Chlorides 20,500 ppm

(A) Initial Hydrostatic 1745  Test 1150 T-On Location 17:37  
 (B) First Initial Flow 52  Jars \_\_\_\_\_ T-Started 17:45  
 (C) First Final Flow 128  Safety Joint \_\_\_\_\_ T-Open 20:01  
 (D) Initial Shut-In 481  Circ Sub \_\_\_\_\_ T-Pulled 22:31  
 (E) Second Initial Flow 137  Hourly Standby \_\_\_\_\_ T-Out 1:00  
 (F) Second Final Flow 192  Mileage 24.4 37.20 Comments \_\_\_\_\_  
 (G) Final Shut-In 467  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1712  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 45  Day Standby \_\_\_\_\_ Total 1187.20  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 45 Sub Total 1187.20

Approved By \_\_\_\_\_ Our Representative Jason McSammon Thank you

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: 785-259-3141  
 Well Name: SCOTT # 2  
 Location: W2 NE NW NW SEC.10-15s-19w      API: 15-051-26,348-00-00  
 Pool: INFIELD      Field: REICHERT  
 State: KANSAS      Country: USA



**TDI, Inc.**  
 1310 BISON ROAD  
 HAYS, KANSAS 67601  
 (785) 628-2593

Scale 1:240 Imperial

Well Name: SCOTT # 2  
 Surface Location: W2 NE NW NW SEC.10-15s-19w  
 Bottom Location:  
 API: 15-051-26,348-00-00  
 License Number: 4787  
 Spud Date: 8/22/2012      Time: 9:45 PM  
 Region: ELLIS COUNTY  
 Drilling Completed: 8/29/2012      Time: 3:51 PM  
 Surface Coordinates: 330' FNL & 905' FWL  
 Bottom Hole Coordinates:  
 Ground Elevation: 2041.00ft  
 K.B. Elevation: 2048.00ft  
 Logged Interval: 2900.00ft      To: 3750.00ft  
 Total Depth: 3750.00ft  
 Formation: LANSING-KANSAS CITY  
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude:      Latitude:  
 N/S Co-ord: 330' FNL  
 E/W Co-ord: 905' FWL

**LOGGED BY**

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

**CONTRACTOR**

Contractor: SOUTHWIND DRILLING INC.  
 Rig #: 4  
 Rig Type: MUD ROTARY  
 Spud Date: 8/22/2012      Time: 9:45 PM  
 TD Date: 8/29/2012      Time: 3:51 PM  
 Rig Release: 8/30/2012      Time: 9:00 AM

**ELEVATIONS**

K.B. Elevation: 2048.00ft      Ground Elevation: 2041.00ft  
 K.B. to Ground: 7.00ft

**NOTES**

RECOMMENDATION TO PLUG AND ABANDON WELL BASED ON NEGATIVE RESULTS OF DSTS AND LACK OF CONGLOMERATE SAND DEVELOPEMENT HIGH ENOUGH TO BE PRODUCTIVE.

PIONEER ENERGY SERVICES LOGGED WELL: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG AND MICRORESISTIVITY LOG

DRILL STEM TESTING: TRILOBITE TESTING, INC. TWO TESTS

**FORMATION TOPS SUMMARY AND CHRONOLOGY OF DAILY DEPTH AND ACTIVITY**

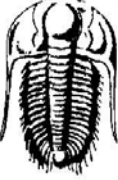
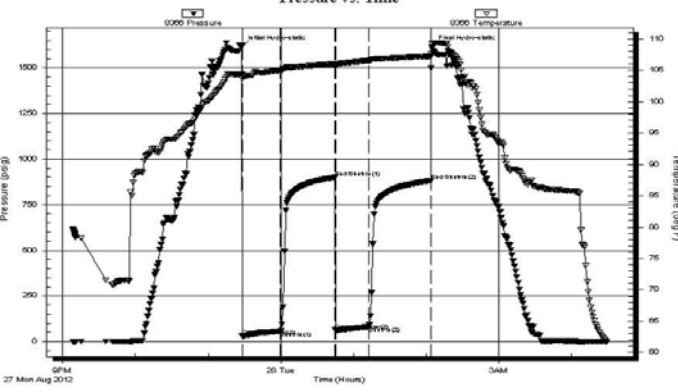
**SCOTT # 2**  
**330' FNL & 905' FWL, NW/4**  
**Sec.10-15s-19w**  
 2041' GL 2048' KB

<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>LOG TOPS</u>
Anhydrite		1289+ 759
B-Anhydrite	1315+ 733	1313+ 735
Topeka	3031- 983	3026- 978
Heebner Shale	3303-1255	3302-1254
Toronto	3325-1277	3322-1274
LKC	3348-1300	3346-1298
BKC	3589-1541	3592-1544
Conglomerate Sand	3668-1620	3666-1618
Arbuckle	3673-1625	3682-1634
RTD	3750-1702	
LTD		3750-1702

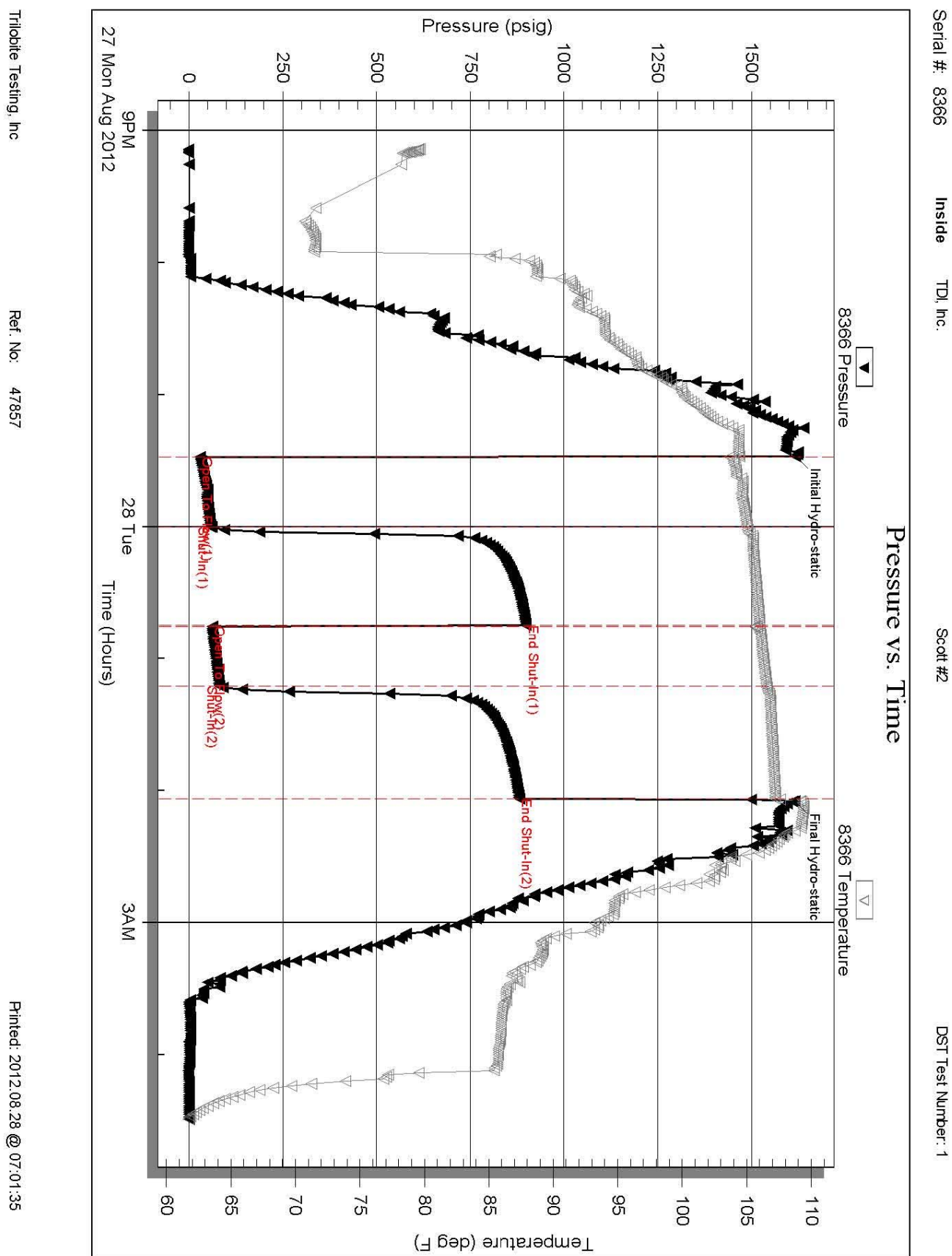
**SUMMARY OF DAILY ACTIVITY**

- 8-22-12 RU, Spud, set 8 5/8" surface casing to 211' with 150 sacks Common, 2 %Gel, 3%CC, plug down 5:00AM 8-23-12
- 8-23-12 211', WOC
- 8-24-12 1357', drilling
- 8-25-12 2128', drilling
- 8-26-12 2698', drilling, displace 2875'
- 8-27-12 3180', drilling, DST # 1, 3336'-3385', slope ¼ degree
- 8-28-12 3390', drilling, DST # 2, 3464'-3545'
- 8-29-12 3596', drilling, RTD 3750', Logs, Decision to P&A
- 8-30-12 3750' lay down drill pipe, rig down


**DST # 1 TEST SUMMARY**

 <b>TRILOBITE TESTING, INC.</b>	<b>DRILL STEM TEST REPORT</b>																																																								
	TDI, Inc. 1310 Bison Road Hays, KS. 67601 ATTN: Herb Deines	<b>10-15s-19w-Ellis</b> <b>Scott #2</b> Job Ticket: 47857 <b>DST#: 1</b> Test Start: 2012.08.27 @ 21:08:23																																																							
<b>GENERAL INFORMATION:</b>																																																									
Formation: <b>A-B-C</b> Deviated: No Whipstock: 0.00 ft (KB) Time Tool Opened: 23:28:08 Time Test Ended: 04:29:53		Test Type: Conventional Bottom Hole (Initial) Tester: Jason McLemore Unit No: 54																																																							
Interval: <b>3336.00 ft (KB) To 3385.00 ft (KB) (TVD)</b> Total Depth: 3385.00 ft (KB) (TVD) Hole Diameter: 7.80 inches Hole Condition: Good		Reference Elevations: 2048.00 ft (KB) 2040.00 ft (CF) KB to GR/CF: 8.00 ft																																																							
<b>Serial #: 8366 Inside</b>																																																									
Press@RunDepth: 80.37 psig @ 3372.00 ft (KB) Start Date: 2012.08.27      End Date: 2012.08.28 Start Time: 21:08:25      End Time: 04:29:53		Capacity: 8000.00 psig Last Calib.: 2012.08.28 Time On Btm: 2012.08.27 @ 23:27:53 Time Off Btm: 2012.08.28 @ 02:04:53																																																							
TEST COMMENT: IFF-Weak Blow, Built to 4-1/4" ISI-Dead FFP-Weak Blow, Built to 4-1/4" FSI-Dead																																																									
<b>Pressure vs. Time</b> 		<b>PRESSURE SUMMARY</b>																																																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Length (ft)</th> <th>Description</th> <th>Volume (bbl)</th> </tr> </thead> <tbody> <tr> <td>70.00</td> <td>Watery Mud-50%WV-50%M</td> <td>0.98</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		Length (ft)	Description	Volume (bbl)	70.00	Watery Mud-50%WV-50%M	0.98													<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Time (Min.)</th> <th>Pressure (psig)</th> <th>Temp (deg F)</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>1618.12</td> <td>104.45</td> <td>Initial Hydro-static</td> </tr> <tr> <td>1</td> <td>29.26</td> <td>103.66</td> <td>Open To Flow (1)</td> </tr> <tr> <td>32</td> <td>57.43</td> <td>105.02</td> <td>Shut-In(1)</td> </tr> <tr> <td>77</td> <td>899.51</td> <td>106.00</td> <td>End Shut-In(1)</td> </tr> <tr> <td>78</td> <td>61.60</td> <td>105.74</td> <td>Open To Flow (2)</td> </tr> <tr> <td>105</td> <td>80.37</td> <td>106.54</td> <td>Shut-In(2)</td> </tr> <tr> <td>156</td> <td>881.39</td> <td>107.21</td> <td>End Shut-In(2)</td> </tr> <tr> <td>157</td> <td>1615.94</td> <td>109.17</td> <td>Final Hydro-static</td> </tr> </tbody> </table>		Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	1618.12	104.45	Initial Hydro-static	1	29.26	103.66	Open To Flow (1)	32	57.43	105.02	Shut-In(1)	77	899.51	106.00	End Shut-In(1)	78	61.60	105.74	Open To Flow (2)	105	80.37	106.54	Shut-In(2)	156	881.39	107.21	End Shut-In(2)	157	1615.94	109.17	Final Hydro-static
Length (ft)	Description	Volume (bbl)																																																							
70.00	Watery Mud-50%WV-50%M	0.98																																																							
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation																																																						
0	1618.12	104.45	Initial Hydro-static																																																						
1	29.26	103.66	Open To Flow (1)																																																						
32	57.43	105.02	Shut-In(1)																																																						
77	899.51	106.00	End Shut-In(1)																																																						
78	61.60	105.74	Open To Flow (2)																																																						
105	80.37	106.54	Shut-In(2)																																																						
156	881.39	107.21	End Shut-In(2)																																																						
157	1615.94	109.17	Final Hydro-static																																																						
<b>Recovery</b>		<b>Gas Rates</b>																																																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Length (ft)</th> <th>Description</th> <th>Volume (bbl)</th> </tr> </thead> <tbody> <tr> <td>70.00</td> <td>Watery Mud-50%WV-50%M</td> <td>0.98</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		Length (ft)	Description	Volume (bbl)	70.00	Watery Mud-50%WV-50%M	0.98													<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Choke (inches)</th> <th>Pressure (psig)</th> <th>Gas Rate (Mcf/d)</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)																																	
Length (ft)	Description	Volume (bbl)																																																							
70.00	Watery Mud-50%WV-50%M	0.98																																																							
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)																																																							

DST # 1 EXPANDED CHART



DST # 2 TEST SUMMARY



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

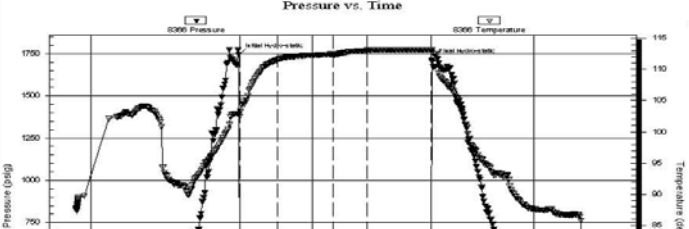
TDI, Inc. 1310 Bison Road Hays, KS. 67601 ATTN: Herb Deines	<p><b>10-15s-19w-Ellis</b></p> <p><b>Scott #2</b></p> <p>Job Ticket: 47858      <b>DST#: 2</b></p> <p>Test Start: 2012.08.28 @ 17:47:41</p>
--	---

**GENERAL INFORMATION:**

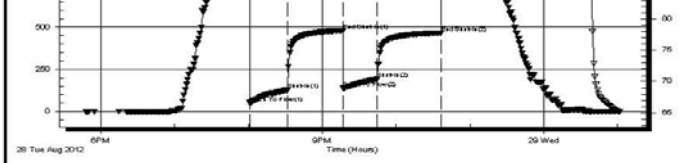
Formation: <b>H-I-J</b>	Deviated: No	Whipstock: 0.00 ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 20:00:56	Time Test Ended: 01:01:26	Interval: <b>3464.00 ft (KB) To 3565.00 ft (KB) (TVD)</b>	Reference Elevations: 2048.00 ft (KB)
Total Depth: 3545.00 ft (KB) (TVD)	Hole Diameter: 7.80 inches	Hole Condition: Good	2040.00 ft (CF)
			KB to GR/CF: 8.00 ft

<b>Serial #: 8366</b>	<b>Inside</b>	Press@RunDepth: 192.20 psig @ 3532.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2012.08.28	End Date: 2012.08.29	Start Time: 17:47:43	Last Calib.: 2012.08.29
	End Time: 01:01:26		Time On Btm: 2012.08.28 @ 20:00:11
			Time Off Btm: 2012.08.28 @ 22:37:11

**TEST COMMENT:** IFP-Good Blow, BOB in 17 Min.  
 ISI-Dead  
 FFP-Fair, Built to 9"  
 FSI-Dead



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1744.62	102.97	Initial Hydro-static
1	52.26	102.42	Open To Flow (1)
32	127.79	111.53	Shut-in(1)
77	480.85	112.48	End Shut-in(1)
77	136.94	112.29	Open To Flow (2)
105	192.20	113.07	Shut-in(2)
157	466.78	113.14	End Shut-in(2)



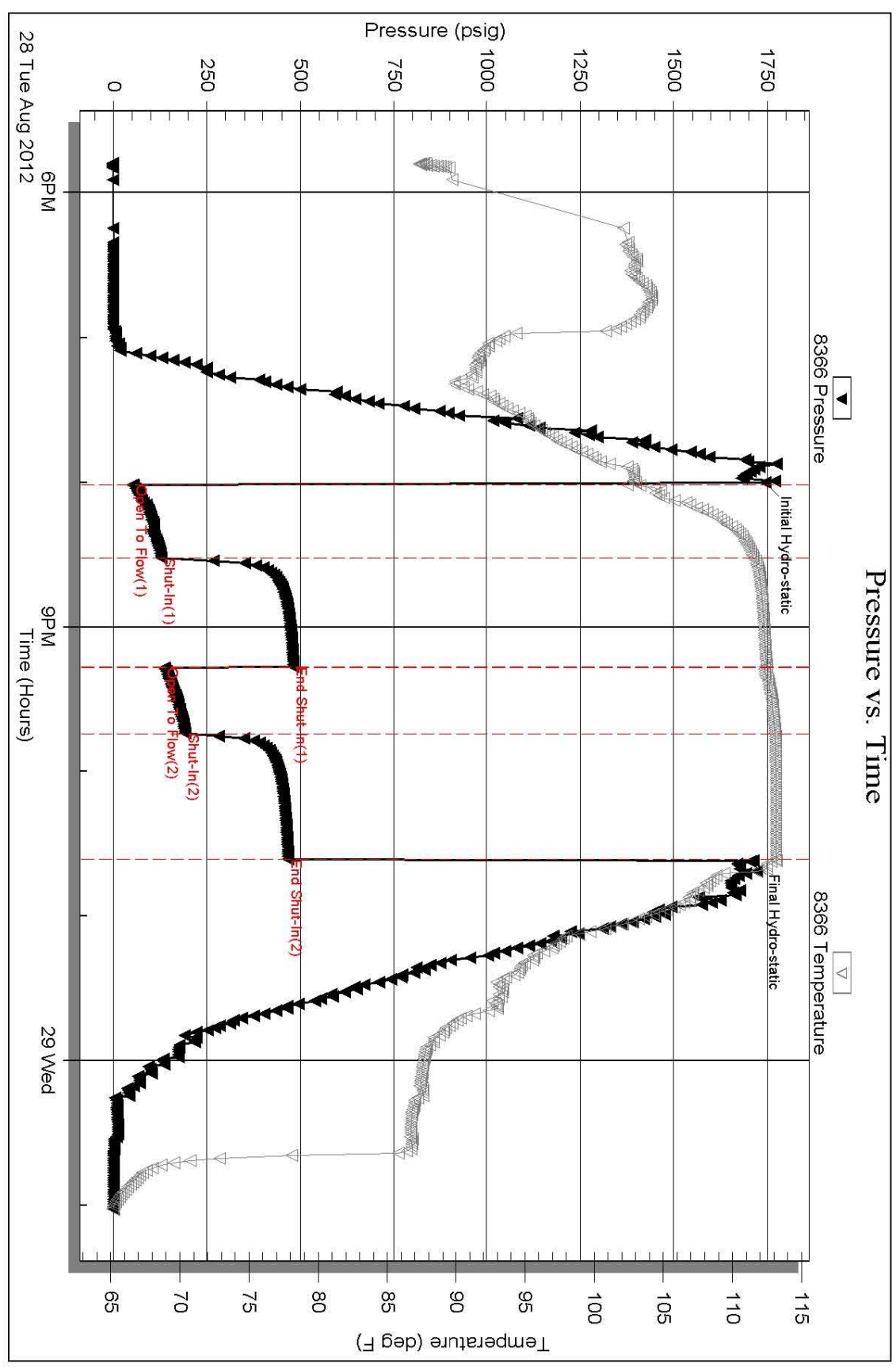
157	1711.85	113.16	Final Hydro-static
-----	---------	--------	--------------------

Recovery		
Length (ft)	Description	Volume (bbl)
305.00	Watery Mud W/Oil Scum-70%M-30%W	4.28

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

Recovery from multiple tests  
 Trilobite Testing, Inc Ref. No: 47858 Printed: 2012.08.29 @ 07:51:25

**DST # 2 EXPANDED CHART**



Trilobite Testing, Inc Ref. No: 47858

Printed: 2012.08.29 @ 07:51:27

Serial #: 8366 Inside TDI, Inc. Scott #2 DST Test Number: 2

**ROCK TYPES**

Dolprim	Lmst fw<7	shale, gry	Ss
Dolsec	Lmst fw>7	Carbon Sh	CglSandy
Dol Lime	shale, grn	shale, red	

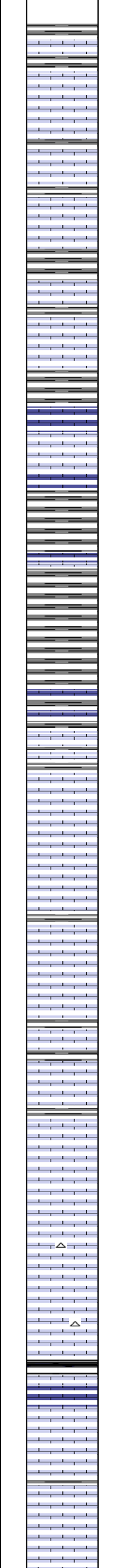
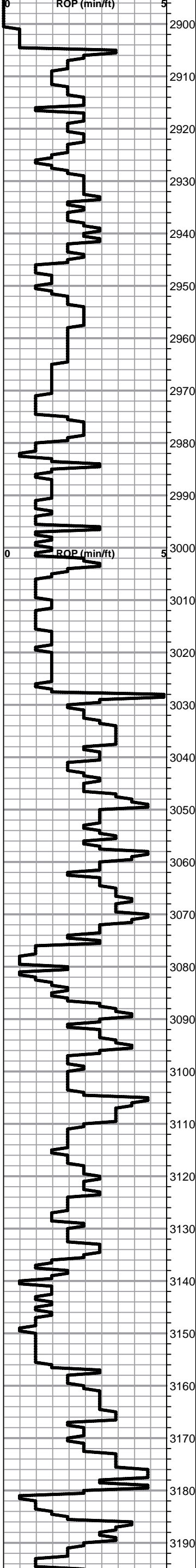
**ACCESSORIES**

<b>MINERAL</b>	<b>FOSSIL</b>
▲ Chert, dark	○ Oolite
↘ Dolomitic	⊕ Oomoldic
∞ Glauconite	
△ Chert White	

**OTHER SYMBOLS**

<b>DST</b>
■ DST Int
■ DST alt

Curve Track #1 ROP (min/ft)	Depth   Intervals DST	Lithology	Oil Show	Geological Descriptions	Curve Track #3
1:240 Imperial ROP (min/ft)	Cored Interval DST Interval				1:240 Imperial



BEGIN 1' DRILL TIME FROM 2900' TO RTD  
 BEGIN 10' WET AND DRY SAMPLES FROM 3000' TO RTD

**ANHYDRITE TOP ELog 1289+759**  
**ANHYDRITE BASE ELog 1313+735**

Lime, lt-med gray, fnxln, slightly fossiliferous

Lime, lt-med brn, fnxln, chalky in part, slightly fossiliferous

Shale, med gray, soft blocky, sandy and gritty in part

Lime, med brn-gray, fossiliferous

Shale, lt-med gray, soft blocky with some soft sticky clumps

**TOPEKA SPL 3031-983 ELog 3026-978**

Lime, brn, fnxln, fossiliferous

Lime, med-dark brn, fnxln, light content of bedded chalk

Lime, med-dark, brn, fnxln, fossiliferous in party

Lime, lt brn-lt gray, fnxln, slightly fossiliferous, brittle on break

Lime, med brn-grayish brn, fn-vfxln

Lime, lt-med brn, fnxln-granular, scattered chalk with few fusulinids, NS

Lime, med brn-grayish brn, fn-vfxln, slightly fossiliferous

Lime, med-dark brn-grayish brn, fnxln, fossiliferous in part

Lime, med brn-grayish brn, fn-vfxln in part

Lime, med brn, fnxln-granular, NS

Lime, lt-med brn, fnxln

Lime, lt-med brn, fnxln-granular in part  
 Chert, white, fresh, sharp

Lime, lt-med brn, granular, white chalky wash, few clumps of soft sticky chalk

Shale, black carbonaceous

Lime, med brn, fnxln

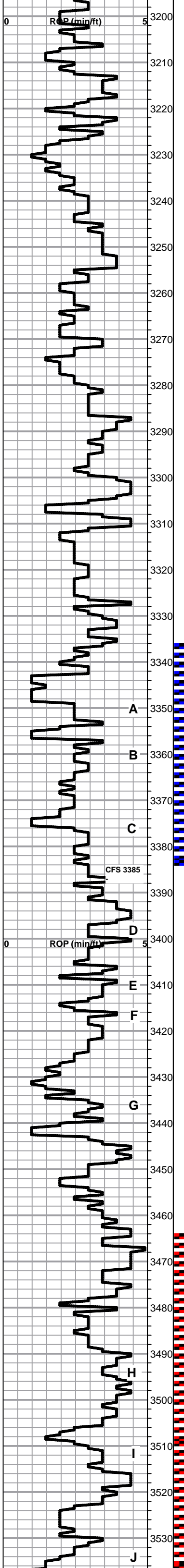
Lime, lt-med brn, fn-vfxln, hard on break

Lime, crm-lt brn, granular with chalk, NS, NO ODOR

Lime, lt brn, fnxln-granular, microfossiliferous, chalk in part, NS

8 5/8" SURFACE CASING  
 SET TO 211' WITH 150  
 SACKS COMMON, 2%  
 GEL, 3% CC

SLOPE 3/4 DEGREE



Lime, lt brn, granular-fnxln with sticky white chalk clumps

Lime, lt brn, granular-fnxln, chalk in part

Shale, black carbonaceous, fissile  
Lime, lt-med brn, fnxln, hard

Lime, tan-lt brn, fnxln-granular, chalk in part

Lime, tan-lt brn fnxln, chalky

Lime, lt-med brn-grayish brn, fn-vfxln

Lime, lt-med brn-grayish brn, fnxln, NS

Lime, lt-med brn, fnxln-granular, slight chalk in part

Lime, crm-lt brn, fnxln-granular in part

Lime, crm-lt brn, fnxln

Lime, lt brn, fnxln

**HEEBNER SHALE SPL 3303-1255 ELog 3302-1254**

Shale, black carbonaceous, fissile, blocky  
Lime, med brn, fn-vfxln, hard, slightly fossiliferous

Shale, lime green, soft forming soft mud balls in part

**TORONTO SPL 3325-1277 ELog 3322-1274**

Lime, white-crm, fn-vfxln, bedded chalk in part, NS

Lime, crm, fn-vfxln, chalk in part, NS

Shale, soft red clumps with lt gray clumps in part

**LKC SPL 3348-1300 ELog 3346-1298**

Lime, lt gray, fnxln

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

Lime, tan-lt brn, fnxln

Lime, tan, oolitic/oolmoldic in part, scattered stain, very lt odor

Lime, lt brn, fnxln, chalky

Shale, med-dark gray, fissile, soft

Lime, lt gray, fnxln, hard with few chips with spotty stain, poor visible porosity

Shale, black carbonaceous, fissile  
Lime, lt-med gray, fnxln, soft on crush

Lime, crm-tan, mostly fnxln, chalk in part

Lime, crm-tan, oolitic-oolmoldic, few chips with scattered lt staining, NFO, NO ODOR, lot of chalk with white chalk wash

Lime, crm-tan, fnxln-oolitic/oolmoldic, barren, NS

Lime, crm-tan, fnxln, bedded chalk

Lime, crm-tan, fnxln, bedded chalk

Shale, gray-black carbonaceous, fissile  
Lime, med brn, fnxln

Shale, grayish brn, blocky grading into soft mixed color shales forming soft mud clusters

Lime, crm-tan-lt brn, fn-vfxln, hard, NS, chalk in part

Lime, crm-tan, fnxln with bedded chalk  
oolitic/oolmoldic with scattered lt stain, NFO, VLT ODOR?

Lime, crm-tan, fnxln, chalk

Shale, med gray, soft blocky

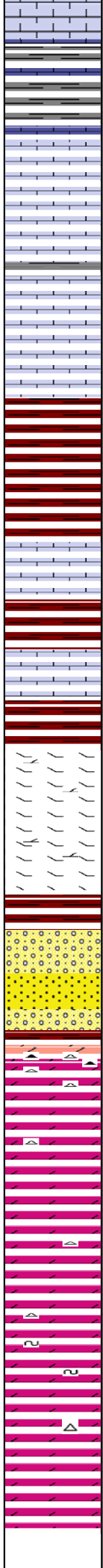
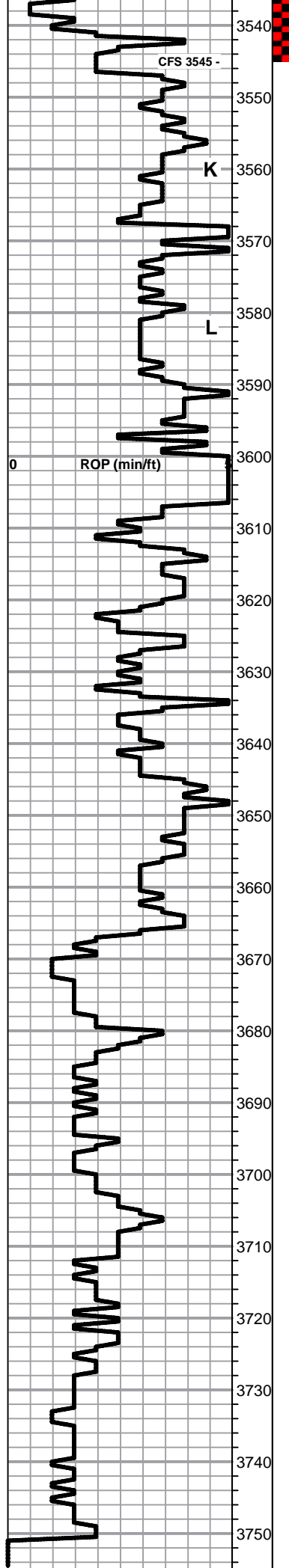
Lime, crm-tan, fnxln grading into oolitic/oolmoldic with scattered to saturated stain, VLTODOR

DST # 1 3336' TO 3385'  
SEE HEADER FOR TEST SUMMARY

SLOPE 3/4 DEGREE

DST # 2 3464' TO 3545'  
SEE HEADER FOR TEST SUMMARY





Lime, crm-tan, fnxln, chalk

Lime, crm-lt brn, fnxln

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

Lime, crm-lt brn, fn-vfxln, chalky

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

**BKC SPL 3589-1541 ELog 3592-1544**

Shale, reddish brn, soft blocky with light red wash

Shale, reddish brn, soft forming sticky clumps in part

Lime, crm, fnxln, slightly chalky

Shale, red wash, soft mud and mud clusters.

Lime, crm-tan, fnxln

**MARMATON MARKER SPL 3638-1590 ELog 3640-1592**

Lime, dolomitic, fn-vfxln, slightly chalky

Lime, crm-tan-offwhite, fn-vfxln

Shale, soft red was grading into cemented sandstone

**CONGLOMERATE SAND SPL 3668-1620 ELog 3666-1618**

Sandstone, quartz, poorly sorted, highly cemented with white clay, few clusters with SFO on break, few chips friable

**ARBUCKLE ELog 3682-1634**

Dolomite, mixed with reworked limestone, chalk and cherts

Dolomite, crm, fnxln, white chalky wash

Dolomite, crm-tan, fn-med xln, slightly sucrosic, NS

Dolomite, crm-tan, fnxln, increase in grain size and intercrystalline porosity.

Dolomite, crm, fnxln with scattered specks of glauconite

Dolomite, crm, fn-cxln

**RTD 3750-1702 LTD 3750-1702**

1ST PLUG @ 3675' W/25 SXS  
 2ND PLUG @ 1290' W/25 SXS  
 3RD PLUG @ 600' W/100 SXS  
 4TH PLUG @ 260' W/40 SXS  
 5TH PLUG @ 40' W/10 SXS  
 RATHOLE W/30 SX  
 JOB COMPLETE 8:45am ON  
 8/30/2012

SLOPE 1 DEGREE

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

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

No. 837

Date	8-23-12	Sec.	10	Twp.	15	Range	19	County	ELLIS	State	KANSAS	On Location		Finish	5:00AM	
Lease	SCOTT			Weil No.	#2			Location	ANTINENO-2S-1 <sup>3</sup> / <sub>4</sub> W-E/INTO							
Contractor	SOUTHWIND #4							Owner	T.D.I. INC.							
Type Job	SURFACE							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Hole Size	12 <sup>1</sup> / <sub>4</sub> "			T.D.	211'			Charge To	T.D.I. INC.							
Csg.	8 <sup>5</sup> / <sub>8</sub> "			Depth	211'			Street	1310 BISON RD.							
Tbg. Size				Depth				City	HAYS			State	KS, 67601			
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.								
Cement Left in Csg.				Shoe Joint	15'			Cement Amount Ordered	150com-3% <sup>2</sup> / <sub>8</sub> GEL							
Meas Line				Displace	12 Bbl											

**EQUIPMENT**

Pumptrk #15	No.	Cementer Helper	NICK	Common	150
Bulktrk #8	No.	Driver	JASON	Poz. Mix	
Bulktrk P/U	No.	Driver	CISCO	Gel.	3
<b>JOB SERVICES &amp; REMARKS</b>				Calcium	5

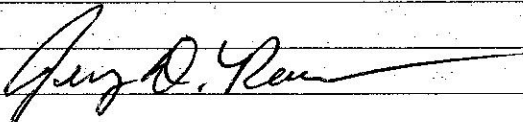
Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
CEMENT DID CIRCULATE!	Sand
	Handling 158
SWEDGE ON LOCATION.	Mileage

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Surface
Mileage	14

THANK YOU!

X Signature 

Tax	
Discount	
Total Charge	

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

841

Phone 785-483-2025  
Cell 785-324-1041

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

No.

Date	8-30-12	Sec.	10	Twp.	15	Range	19	County	ELLIS	State	KANSAS	On Location		Finish	9:00am	
Lease	SCOTT		Well No.	#2		Location										ANTONINO - 1W-1S-1/2W-S/INTD
Contractor	SOUTHWIND #4							Owner	T.D.I							
Type Job	D.T.A							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Hole Size	7 7/8"		T.D.	3,750												
Csg.	4 1/2"		Depth													
Tbg. Size			Depth													
Tool			Depth													
Cement Left in Csg.			Shoe Joint													
Meas Line			Displace	Cement Amount Ordered 230 69/40-49095L-4 PLO												

**EQUIPMENT**

Pumptrk #15	No.	Cementer		Common	138
		Helper	NICK		
Bulktrk #10	No.	Driver		Poz. Mix	92
		Driver	DOUG		
Bulktrk P/W	No.	Driver		Gel.	3
		Driver	CISCO		

**JOB SERVICES & REMARKS**

Remarks:	Calcium
Rat Hole 30 SKS	Hulls
Mouse Hole	Salt
Centralizers	Flowseal
Baskets	Kol-Seal 50#
D/V or Port Collar	Mud CLR 48
1st @ 3,675'	CFL-117 or CD110 CAF 38
2nd @ 1,290'	Sand
3rd @ 600'	Handling 238
4th @ 260'	Mileage
5th @ 40'	
RATHOLE	
230	

**FLOAT EQUIPMENT**

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	1- 8 7/8 WOODEN PLUG
	Pumptrk Charge plug
	Mileage if plug

THANK YOU!

X Signature Gary D. [Signature]

Tax  
Discount  
Total Charge

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  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

September 25, 2012

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

Re: ACO1  
API 15-051-26348-00-00  
Scott 2  
NW/4 Sec.10-15S-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