



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1209724  
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: \_\_\_\_\_

1209724

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. <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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## DRILL STEM TEST REPORT

Prepared For: **TDI, Inc**

1310 Bison Rd.  
Hays KS 67601-9696

ATTN: Tom Denning , Herb D

**Bice #1**

**22-10s-17w Rooks,KS**

Start Date: 2014.04.18 @ 02:55:42

End Date: 2014.04.18 @ 07:41:36

Job Ticket #: 55327                      DST #: 1

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

Printed: 2014.04.23 @ 16:07:03

TDI, Inc  
22-10s-17w Rooks,KS  
Bice #1  
DST # 1  
LKC A-D  
2014.04.18



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

TDI, Inc  
 1310 Bison Rd.  
 Hays KS 67601-9696  
 ATTN: Tom Denning, Herb D

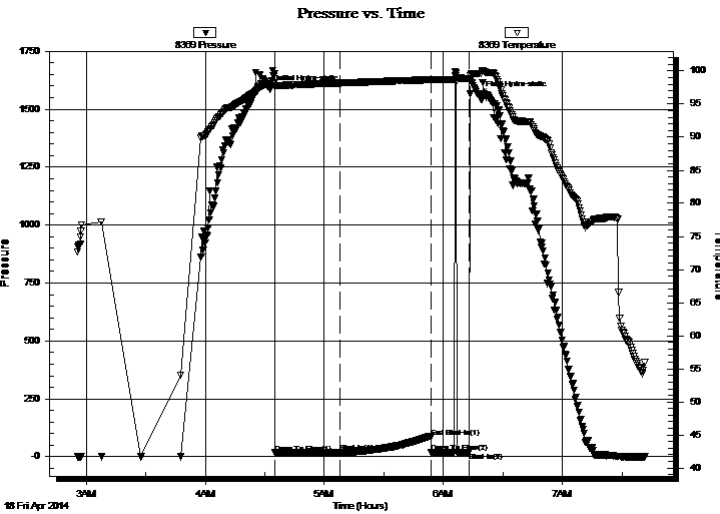
**22-10s-17w Rooks,KS**  
**Bice #1**  
 Job Ticket: 55327 **DST#: 1**  
 Test Start: 2014.04.18 @ 02:55:42

## GENERAL INFORMATION:

Formation: **LKC A-D**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:35:07  
 Time Test Ended: 07:41:36  
 Interval: **3251.00 ft (KB) To 3336.00 ft (KB) (TVD)**  
 Total Depth: 3336.00 ft (KB) (TVD)  
 Hole Diameter: 7.85 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ray Schwager  
 Unit No: 70  
 Reference Elevations: 2040.00 ft (KB)  
 2030.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8369 Inside**  
 Press@RunDepth: 17.87 psig @ 3253.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.04.18 End Date: 2014.04.18 Last Calib.: 2014.04.18  
 Start Time: 02:55:42 End Time: 07:41:36 Time On Btm: 2014.04.18 @ 04:32:37  
 Time Off Btm: 2014.04.18 @ 06:18:07

**TEST COMMENT:** 30-IFP-w k bl thru-out 1/4" to surface bl  
 45-ISIP-no bl  
 20-FFP-no bl, flushed tool, got surge  
 pulled tool



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1586.40	97.96	Initial Hydro-static
3	16.67	97.58	Open To Flow (1)
36	17.87	98.18	Shut-In(1)
81	86.32	98.69	End Shut-In(1)
82	17.97	98.66	Open To Flow (2)
101	20.07	98.87	Shut-In(2)
106	1556.57	99.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w/show of oil	0.14

## 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, Herb D

**22-10s-17w Rooks,KS**  
**Bice #1**  
Job Ticket: 55327      **DST#: 1**  
Test Start: 2014.04.18 @ 02:55:42

**Tool Information**

Drill Pipe:	Length: 3250.00 ft	Diameter: 3.80 inches	Volume: 45.59 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 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:	50000.00 lb
			<u>Total Volume: 45.59 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	34000.00 lb
Depth to Top Packer:	3251.00 ft			Final	34000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	86.00 ft				
Tool Length:	107.00 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>
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<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			3231.00	
Shut In Tool	5.00			3236.00	
Hydraulic tool	5.00			3241.00	
Packer	5.00			3246.00	21.00      Bottom Of Top Packer
Packer	5.00			3251.00	
Stubb	1.00			3252.00	
Perforations	1.00			3253.00	
Recorder	0.00	8369	Inside	3253.00	
Recorder	0.00	8700	Outside	3253.00	
Blank Spacing	63.00			3316.00	
Perforations	18.00			3334.00	
Bullnose	3.00			3337.00	86.00      Bottom Packers & Anchor

**Total Tool Length: 107.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

TDI, Inc  
1310 Bison Rd.  
Hays KS 67601-9696  
ATTN: Tom Denning, Herb D

**22-10s-17w Rooks,KS**  
**Bice #1**  
Job Ticket: 55327      **DST#: 1**  
Test Start: 2014.04.18 @ 02:55:42

### 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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 1.00 inches			

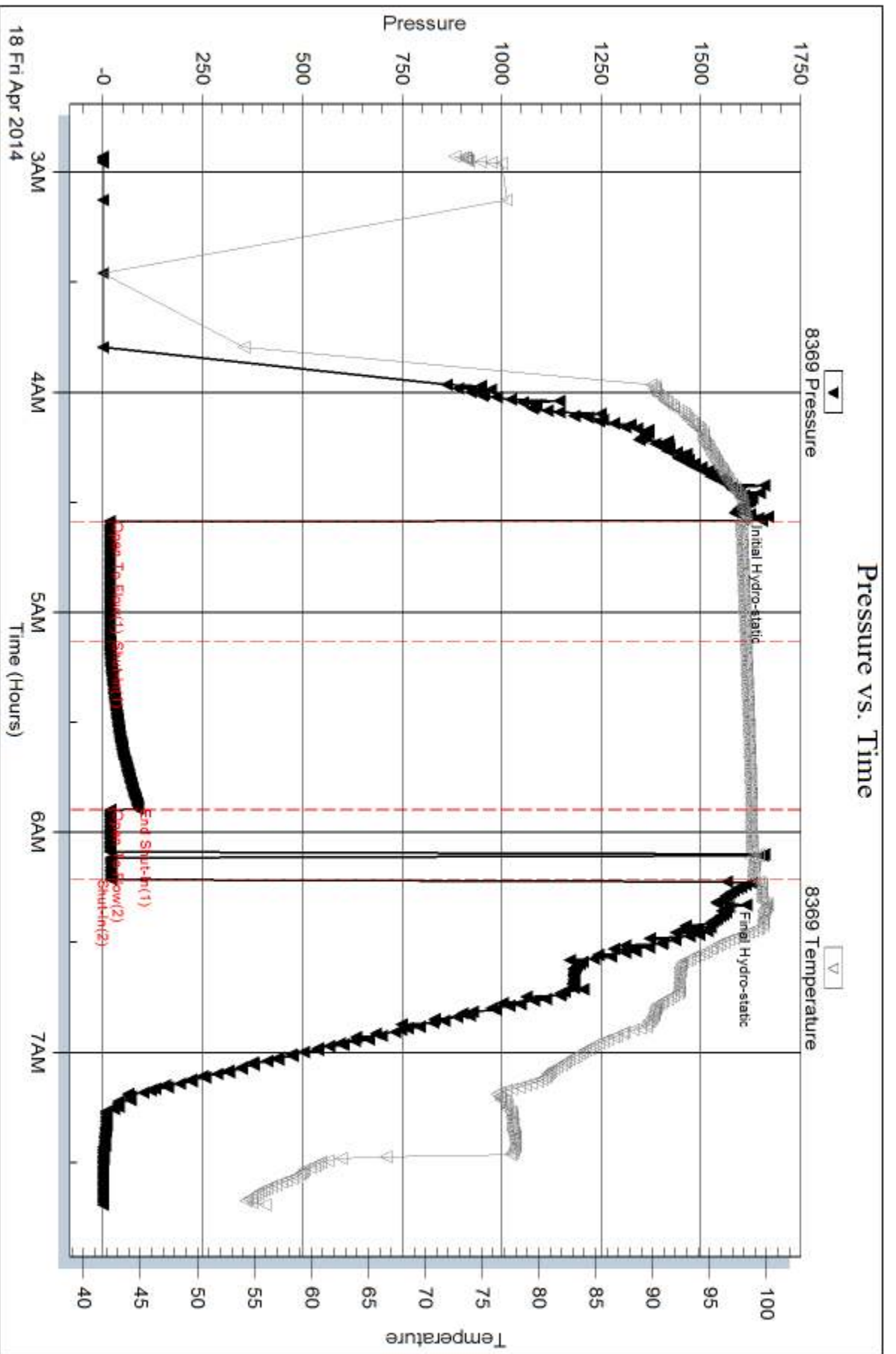
### Recovery Information

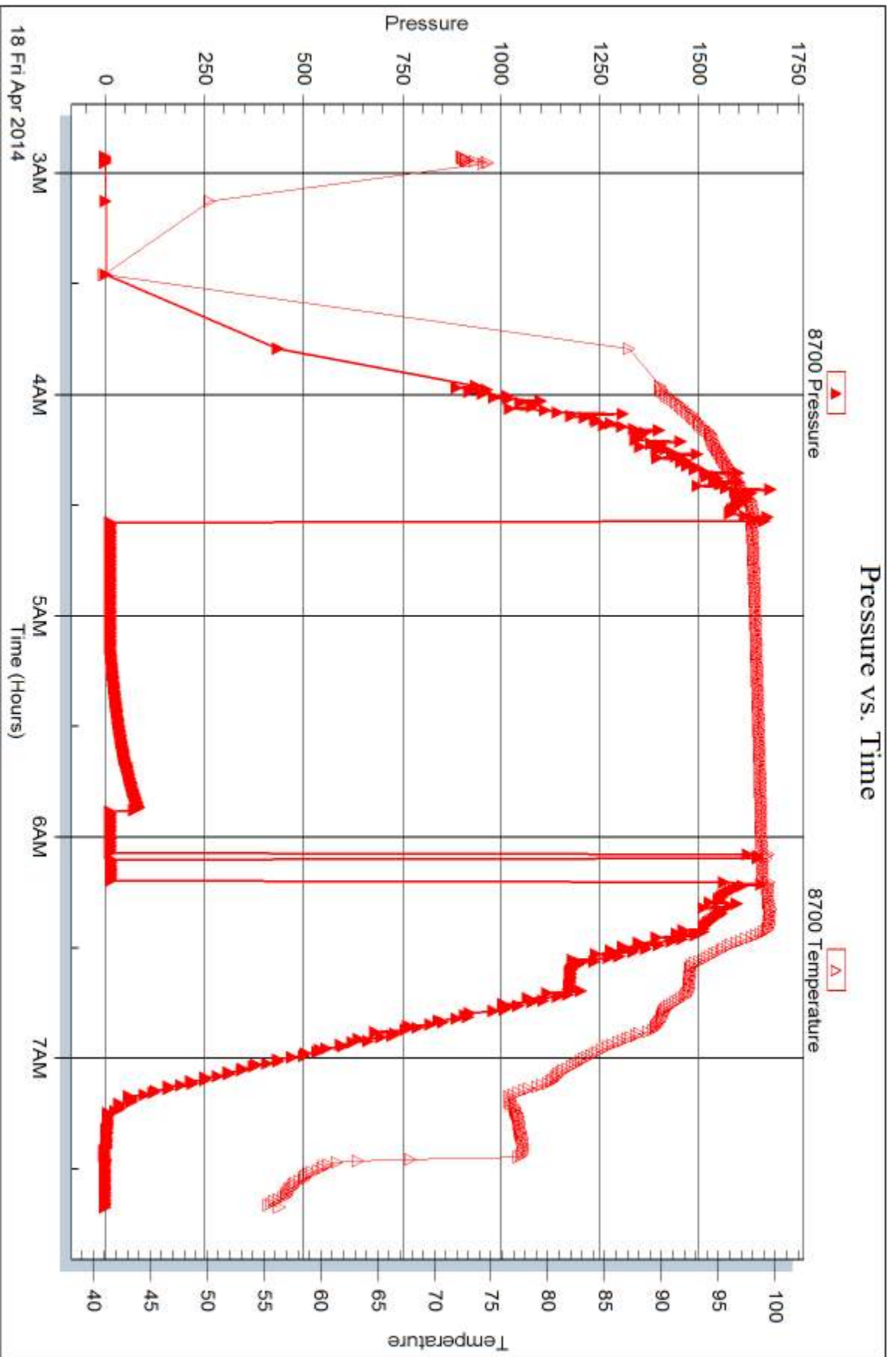
Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w/show of oil	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **TDI, Inc**

1310 Bison Rd.  
Hays KS 67601-9696

ATTN: Tom Denning , Herb D

### **Bice #1**

### **22-10s-17w Rooks,KS**

Start Date: 2014.04.18 @ 21:15:12

End Date: 2014.04.19 @ 03:44:36

Job Ticket #: 55328                      DST #: 2

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

Printed: 2014.04.23 @ 16:06:40

TDI, Inc  
22-10s-17w Rooks,KS  
Bice #1  
DST # 2  
LKC H-J  
2014.04.18



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

TDI, Inc  
1310 Bison Rd.  
Hays KS 67601-9696  
ATTN: Tom Denning, Herb D

**22-10s-17w Rooks,KS**  
**Bice #1**  
Job Ticket: 55328 **DST#: 2**  
Test Start: 2014.04.18 @ 21:15:12

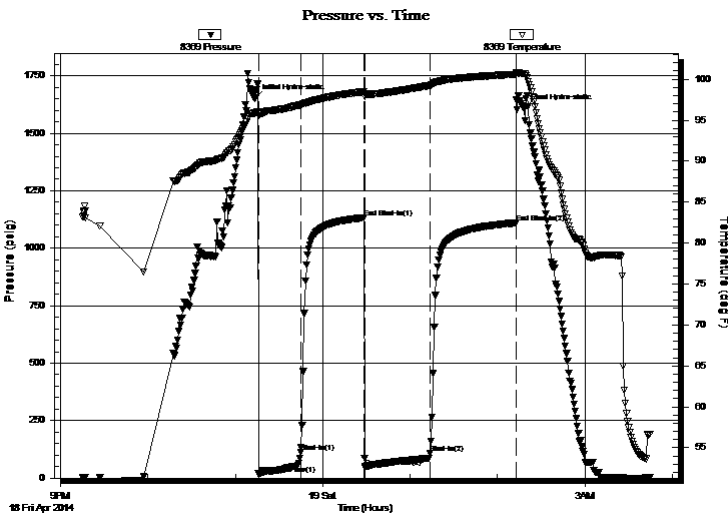
## GENERAL INFORMATION:

Formation: **LKC H-J**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 23:15:52  
Time Test Ended: 03:44:36  
Interval: **3376.00 ft (KB) To 3460.00 ft (KB) (TVD)**  
Total Depth: 3460.00 ft (KB) (TVD)  
Hole Diameter: 7.85 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Ray Schwager  
Unit No: 70  
Reference Elevations: 2040.00 ft (KB)  
2030.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8369 Inside**  
Press@RunDepth: 107.49 psig @ 3378.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.04.18 End Date: 2014.04.19 Last Calib.: 2014.04.19  
Start Time: 21:15:12 End Time: 03:44:36 Time On Btm: 2014.04.18 @ 23:13:37  
Time Off Btm: 2014.04.19 @ 02:18:06

TEST COMMENT: 30-IFP-w k to strg in 20 min  
45-ISIP-no bl  
45-FFP-w k to strg in 40 min  
60-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1651.30	95.87	Initial Hydro-static
3	18.07	95.51	Open To Flow (1)
32	113.11	96.86	Shut-In(1)
75	1133.21	98.48	End Shut-In(1)
76	48.27	98.18	Open To Flow (2)
120	107.49	99.25	Shut-In(2)
179	1110.53	100.58	End Shut-In(2)
185	1606.24	100.68	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	270°GIP	0.00
60.00	CO	0.84
45.00	GMO 20%G40%M40%O	0.63
60.00	GMO 20%G10%M70%O	0.84

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

TDI, Inc  
1310 Bison Rd.  
Hays KS 67601-9696  
ATTN: Tom Denning, Herb D

**22-10s-17w Rooks,KS**  
**Bice #1**  
Job Ticket: 55328      **DST#: 2**  
Test Start: 2014.04.18 @ 21:15:12

**Tool Information**

Drill Pipe:	Length: 3379.00 ft	Diameter: 3.80 inches	Volume: 47.40 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 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: 47.40 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3376.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	84.00 ft				
Tool Length:	105.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

**Tool Description**

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3356.00	
Shut In Tool	5.00			3361.00	
Hydraulic tool	5.00			3366.00	
Packer	5.00			3371.00	21.00 Bottom Of Top Packer
Packer	5.00			3376.00	
Stubb	1.00			3377.00	
Perforations	1.00			3378.00	
Recorder	0.00	8369	Inside	3378.00	
Recorder	0.00	8700	Outside	3378.00	
Blank Spacing	63.00			3441.00	
Perforations	16.00			3457.00	
Bullnose	3.00			3460.00	84.00 Bottom Packers & Anchor

**Total Tool Length: 105.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

TDI, Inc  
1310 Bison Rd.  
Hays KS 67601-9696  
ATTN: Tom Denning, Herb D

**22-10s-17w Rooks,KS**  
**Bice #1**  
Job Ticket: 55328      **DST#: 2**  
Test Start: 2014.04.18 @ 21:15:12

## Mud and Cushion Information

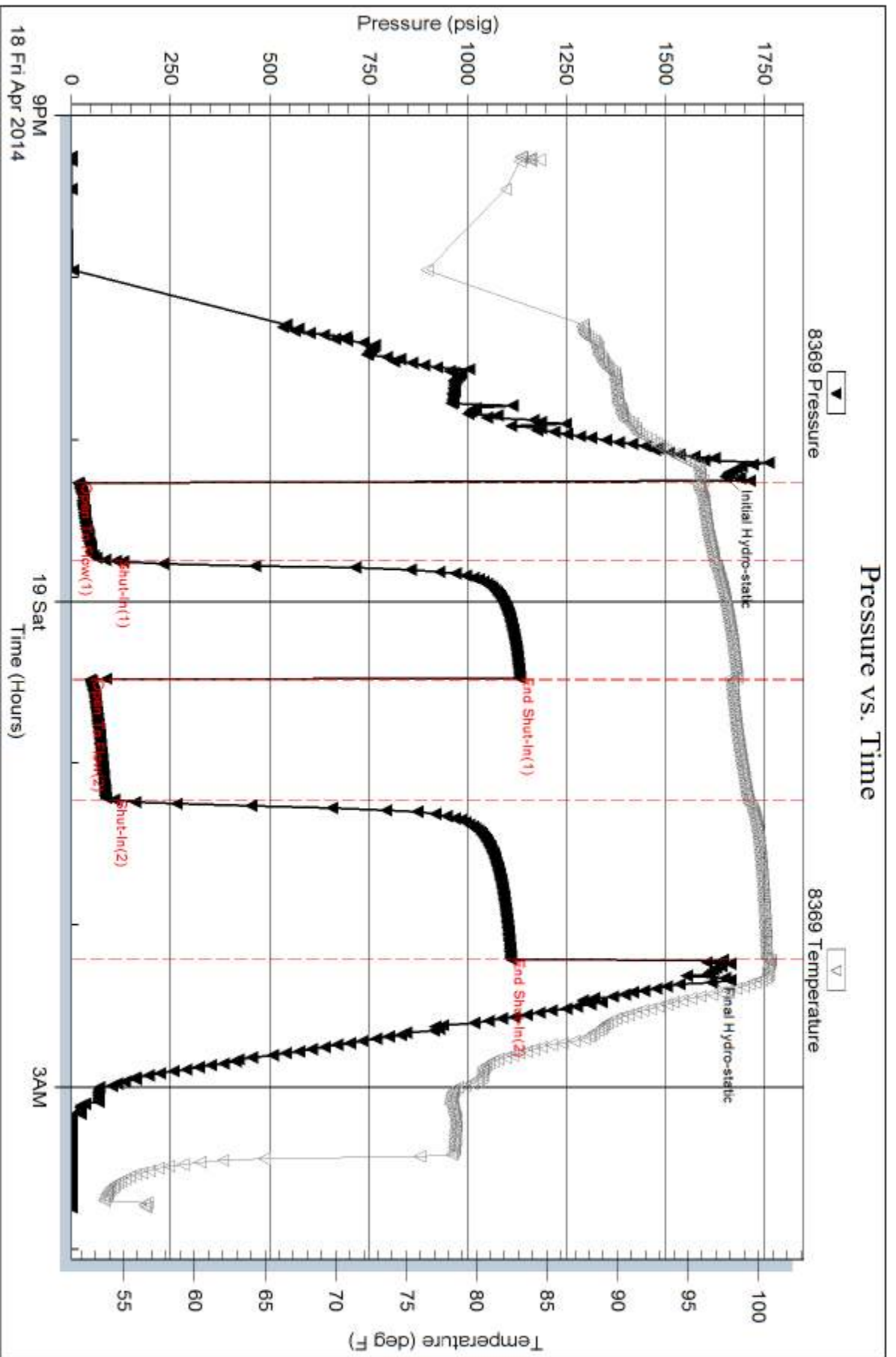
Mud Type: Gel Chem	Cushion Type:	Oil API: 28 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl	
Water Loss: 5.98 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3200.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	270'GIP	0.000
60.00	CO	0.842
45.00	GMO 20%G40%M40%O	0.631
60.00	GMO 20%G10%M70%O	0.842

Total Length: 165.00 ft      Total Volume: 2.315 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



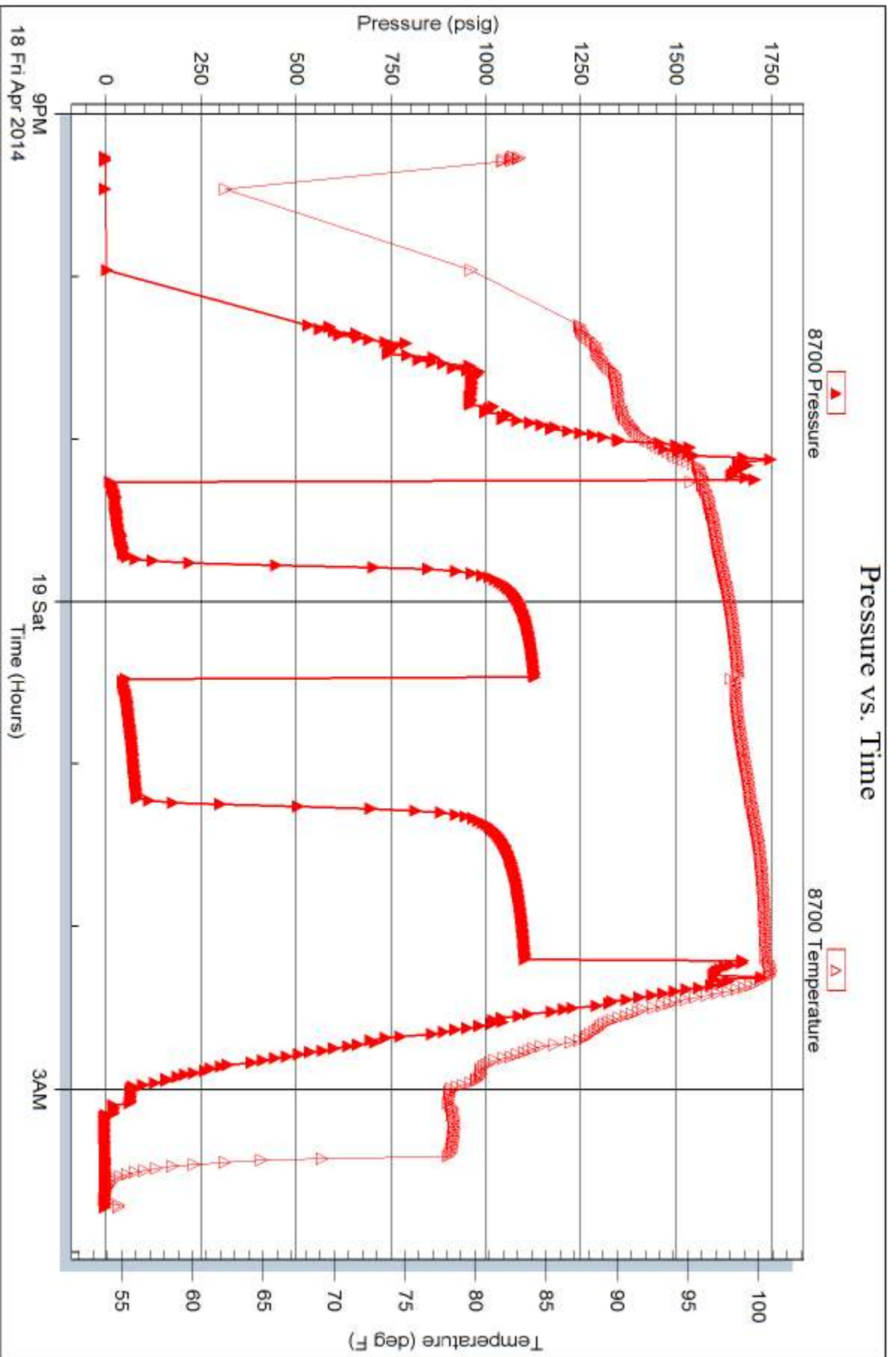


Serial #: 8700

Outside TDI, Inc

Bice #1

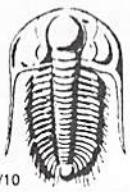
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 55328

Printed: 2014.04.23 @ 16:06:41



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55327

Well Name & No. Bice #1 Test No. 1 Date 4-18-14  
 Company TOI, Inc Elevation 2040 KB 2030 GL  
 Address 1310 Bison Rd. Hays, Ks 67601-9696  
 Co. Rep / Geo. Herb Deines Rig Southwind rig 1  
 Location: Sec. 22 Twp. 10<sup>s</sup> Rge. 17<sup>w</sup> Co. Rooks State Ks

Interval Tested 3251-3336 Zone Tested LKC A-D  
 Anchor Length 85 Drill Pipe Run 3250 Mud Wt. 9.1  
 Top Packer Depth 3246 Drill Collars Run — Vis 50  
 Bottom Packer Depth 3251 Wt. Pipe Run — WL 6  
 Total Depth 3336 Chlorides 3500 ppm System LCM 3#

Blow Description IFP - Weak Blow 1/4" To surface Blow  
ISIP - NO Blow  
FFP - NO Blow flushed Tool, got surge  
FSIP - pulled Tool

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud</u>				
	<u>w/show foil</u>				

Rec Total 10 BHT \_\_\_\_\_ Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 1586  Test 1150 T-On Location 0210  
 (B) First Initial Flow 16  Jars \_\_\_\_\_ T-Started 0455  
 (C) First Final Flow 17  Safety Joint \_\_\_\_\_ T-Open 0635  
 (D) Initial Shut-In 86  Circ Sub \_\_\_\_\_ T-Pulled \_\_\_\_\_  
 (E) Second Initial Flow 17  Hourly Standby \_\_\_\_\_ T-Out \_\_\_\_\_  
 (F) Second Final Flow 20  Mileage 58RT 89.90 Comments \_\_\_\_\_  
 (G) Final Shut-In —  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1556  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1239.90  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 20  
 Final Shut-In —

Sub Total 1239.90

Approved By \_\_\_\_\_ Our Representative RAY Schwager 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.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **55328**

Well Name & No. Bice #1 Test No. 2 Date 4-18-14  
 Company T.O.I., Inc Elevation 2040 KB 2030 GL  
 Address 1310 Bison Rd. Hays, Ko 67601-9696  
 Co. Rep / Geo. Herb Deines Rig Southwind rig 1  
 Location: Sec. 22 Twp. 10<sup>s</sup> Rge. 17<sup>w</sup> Co. Rooks State Ko

Interval Tested 3376-3460 Zone Tested LKC H-5  
 Anchor Length 84 Drill Pipe Run 3379 Mud Wt. 9.3  
 Top Packer Depth 3371 Drill Collars Run - Vis 48  
 Bottom Packer Depth 3376 Wt. Pipe Run - WL 6  
 Total Depth 3460 Chlorides 3200 ppm System LCM 2#

Blow Description IFP - WEAK TO STRONG IN 20 MIN  
TSIP - NO BLOW  
FFP - WEAK TO A STRONG BLOW IN 40 MIN  
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>270</u>	<u>GIP</u>				
<u>60</u>	<u>CO</u>				
<u>45</u>	<u>GMO</u>	<u>20</u>	<u>40</u>		<u>40</u>
<u>60</u>	<u>GMO</u>	<u>20</u>	<u>70</u>		<u>10</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 165 BHT 100 Gravity 28 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1651  Test 1150 T-On Location 2045  
 (B) First Initial Flow 18  Jars - T-Started 2115  
 (C) First Final Flow 113  Safety Joint - T-Open 2315  
 (D) Initial Shut-In 1133  Circ Sub - T-Pulled 0215  
 (E) Second Initial Flow 48  Hourly Standby - T-Out 0344  
 (F) Second Final Flow 107  Mileage SBRT 179.80 Comments Loaded Tool, 4-19-14  
 (G) Final Shut-In 1110  Sampler - 1845  
 (H) Final Hydrostatic 1606  Straddle -  Ruined Shale Packer -  
 Shale Packer -  Ruined Packer -

Initial Open 30  Extra Packer -  Extra Copies -  
 Initial Shut-In 45  Extra Recorder - Sub Total 0  
 Final Flow 45  Day Standby - Total 1329.80  
 Final Shut-In 60  Accessibility - MP/DST Disc't -  
 Sub Total 1329.80

Approved By \_\_\_\_\_ Our Representative Ray Schwager *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: 785-628-2593  
 Well Name: BICE # 1  
 Location: E2 NE NW SE Sec.22-10s-17w  
 Pool: WILDCAT  
 State: KANSAS  
 API: 15-163-24,187-00-00  
 Field: UNNAMED  
 Country: USA



Scale 1:240 Imperial

Well Name: BICE # 1  
 Surface Location: E2 NE NW SE Sec.22-10s-17w  
 Bottom Location:  
 API: 15-163-24,187-00-00  
 License Number: 4787  
 Spud Date: 4/14/2014  
 Region: ROOKS COUNTY  
 Drilling Completed: 4/19/2014  
 Surface Coordinates: 2310' FSL & 1465' FEL  
 Bottom Hole Coordinates:  
 Ground Elevation: 2030.00ft  
 K.B. Elevation: 2040.00ft  
 Logged Interval: 2900.00ft  
 Total Depth: 3750.00ft  
 Formation: LANSING-KANSAS CITY  
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

Time: 3:00 PM  
 Time: 6:40 PM  
 To: 3750.00ft

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: -99.2005551  
 N/S Co-ord: 2310' FSL  
 E/W Co-ord: 1465' FEL  
 Latitude: 39.1679882

**LOGGED BY**

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

**CONTRACTOR**

Contractor: SOUTHWIND DRILLING, INC.  
 Rig #: 1  
 Rig Type: MUD ROTARY  
 Spud Date: 4/14/2014  
 TD Date: 4/19/2014  
 Rig Release: 4/20/2014  
 Time: 3:00 PM  
 Time: 6:40 PM  
 Time: 1:00 PM

**ELEVATIONS**

K.B. Elevation: 2040.00ft  
 K.B. to Ground: 10.00ft  
 Ground Elevation: 2030.00ft

**NOTES**

RECOMMENDATION TO RUN PRODUCTION CASING BASED ON FAVORABLE STRUCTURE AND RESULTS OF DST # 2

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

DRILL STEM TESTING BY TRILOBITE TESTING INC: TWO (2) CONVENTIONAL TESTS

**FORMATION COMPARISON CHART AND CHRONLOGY OF DAILY ACTIVITY**


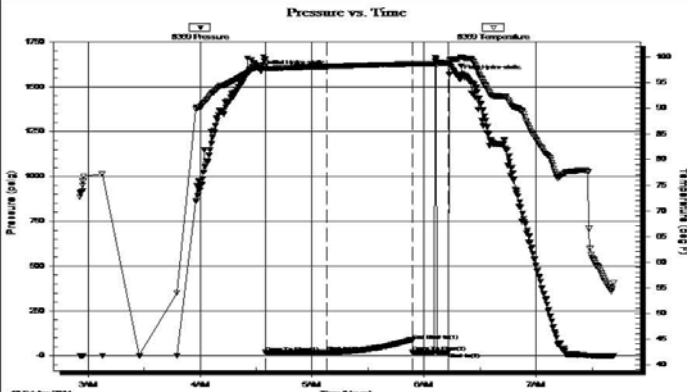
	<b>BICE # 1</b>	<b>SCHRANDT #1</b>	<b>MARSTON A 1-27</b>
	<b>E2 NE NW SE</b>	<b>100' S of E2 SE SW</b>	<b>SW NE NE NE</b>
	<b>SEC.22-10S-17W</b>	<b>SEC.22-10-17W</b>	<b>SEC.27-10-17W</b>
	<b>2030'GL 2040'KB</b>	<b>KB 2077'</b>	<b>KB 2073'</b>
<u>FORMATION</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>
<b>Anhydrite</b>	<b>1296 +744</b>	<b>+ 753</b>	<b>+763</b>
<b>B-Anhydrite</b>	<b>1329 +711</b>	<b>+ 716</b>	<b>+725</b>
<b>Topeka</b>	<b>2993 -953</b>	<b>- 958</b>	<b>- 948</b>

Heebner Sh.	3214-1174	-1181	-1170
Toronto	3238-1198	-1203	-1192
LKC	3258-1218	-1223	-1213
BKC	3495-1455	-1458	-1457
Conglomerate	3538-1498	-1513	-1499
Simpson Shale	3625-1585	-1583	-1573
Simpson Dol.	3634-1594	-1592	-1583
Arbuckle	3660-1620	-1615	-1611
RTD	3750-1710	-1658	-1652

**SUMMARY OF DAILY ACTIVITY**

- 4-14-14 RU, Spud 3:00 PM, set 8 5/8" surface casing to 223' w/ 160 sxs Common 2%Gel 3%CC, slope 3/4 degree, plug down 10:15PM
- 4-15-14 250', drilling, drilled plug 6:15AM
- 4-16-14 2150', drilling
- 4-17-14 2890', drilling, displaced 2609' to 2627', CFS 3336', short trip, TOWB
- 4-18-14 3336', DST # 1 3251' to 3336' "A"- "D" LKC, TIWB, CFS 3460', DST # 2 3376' - 3460' "H" - "J" LKC
- 4-19-14 3486', RTD 3750'@3:40PM, CCH, TOWB, start logs
- 4-20-14 3750', finish logs, TIWB, LDDP, run 5 1/2" production casing, RD

**DST # 1 3251' TO 3336' LKC "A" TO "D"**

	<b>DRILL STEM TEST REPORT</b>																																											
	TDI, Inc 1310 Bison Rd. Hays Ks 67601-9696 ATTN: Tom Denning, Herb D	<b>22-10s-17w Rooks</b> <b>Bice #1</b> Job Ticket: 55327 <b>DST#: 1</b> Test Start: 2014.04.18 @ 02:55:42																																										
<b>GENERAL INFORMATION:</b>																																												
Formation: <b>LKC A-D</b> Deviated: No Whipstock: ft (KB) Time Tool Opened: 04:35:07 Time Test Ended: 07:41:36		Test Type: Conventional Bottom Hole (Initial) Tester: Ray Schwager Unit No: 70																																										
<b>Interval: 3251.00 ft (KB) To 3336.00 ft (KB) (TVD)</b> Total Depth: 3336.00 ft (KB) (TVD) Hole Diameter: 7.85 inches Hole Condition: Fair		Reference Elevations: 2040.00 ft (KB) 2030.00 ft (CF) KB to GR/CF: 10.00 ft																																										
<b>Serial #: 8369 Inside</b> Press@RunDepth: 17.87 psig @ 3253.00 ft (KB) Start Date: 2014.04.18      End Date: 2014.04.18 Start Time: 02:55:42      End Time: 07:41:36 Capacity: 8000.00 psig Last Calib.: 2014.04.18 Time On Btm: 2014.04.18 @ 04:32:37 Time Off Btm: 2014.04.18 @ 06:18:07																																												
<b>TEST COMMENT:</b> 30-IFP-w kb thru-out 1/4" to surface bl 45-ISIP-no bl 20-FFP-no bl, flushed tool, got surge pulled tool																																												
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">PRESSURE SUMMARY</th> </tr> <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>1586.40</td><td>97.96</td><td>Initial Hydro-static</td></tr> <tr><td>3</td><td>16.67</td><td>97.58</td><td>Open To Flow (1)</td></tr> <tr><td>36</td><td>17.87</td><td>98.18</td><td>Shut-In(1)</td></tr> <tr><td>81</td><td>86.32</td><td>98.69</td><td>End Shut-In(1)</td></tr> <tr><td>82</td><td>17.97</td><td>98.66</td><td>Open To Flow (2)</td></tr> <tr><td>101</td><td>20.07</td><td>98.87</td><td>Shut-In(2)</td></tr> <tr><td>106</td><td>1556.57</td><td>99.61</td><td>Final Hydro-static</td></tr> </tbody> </table>			PRESSURE SUMMARY				Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	1586.40	97.96	Initial Hydro-static	3	16.67	97.58	Open To Flow (1)	36	17.87	98.18	Shut-In(1)	81	86.32	98.69	End Shut-In(1)	82	17.97	98.66	Open To Flow (2)	101	20.07	98.87	Shut-In(2)	106	1556.57	99.61	Final Hydro-static					
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**DST # 2 3376' TO 3460' LKC "H" TO "J"**

	<b>DRILL STEM TEST REPORT</b>		
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**TRILOBITE TESTING, INC.**

TDI, Inc  
1310 Bison Rd.  
Hays Ks 67601-9696  
ATTN: Tom Denning, Herb D

**22-10s-17w Rooks**

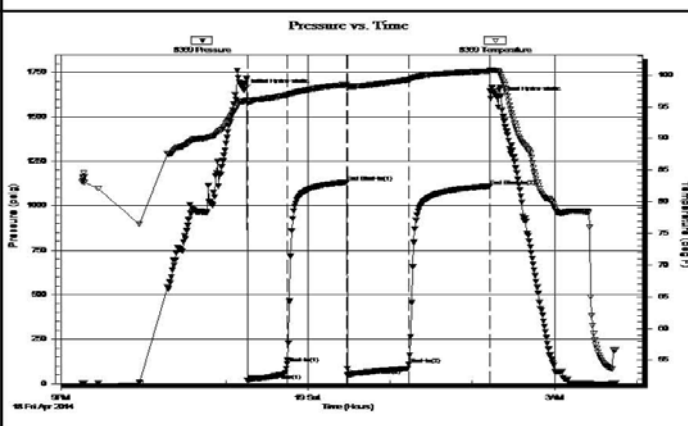
**Bice #1**  
Job Ticket: 55328 **DST#: 2**  
Test Start: 2014.04.18 @ 21:15:12

**GENERAL INFORMATION:**

Formation: **LKC H-J**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 23:15:52  
Time Test Ended: 03:44:36  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Ray Schwager  
Unit No: 70  
Interval: **3376.00 ft (KB) To 3460.00 ft (KB) (TVD)**  
Reference Elevations: 2040.00 ft (KB)  
Total Depth: 3460.00 ft (KB) (TVD)  
2030.00 ft (CF)  
Hole Diameter: 7.85 inches Hole Condition: Fair  
KB to GR/CF: 10.00 ft

**Serial #: 8369 Inside**  
Press@RunDepth: 107.49 psig @ 3378.00 ft (KB)  
Capacity: 8000.00 psig  
Start Date: 2014.04.18 End Date: 2014.04.19  
Last Calib.: 2014.04.19  
Start Time: 21:15:12 End Time: 03:44:36  
Time On Btm: 2014.04.18 @ 23:13:37  
Time Off Btm: 2014.04.19 @ 02:18:06

**TEST COMMENT:** 30-IFP-w k to strg in 20 min  
45-ISIP-no bl  
45-FFP-w k to strg in 40 min  
60-FSP-no bl



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1651.30	95.87	Initial Hydro-static
3	18.07	95.51	Open To Flow (1)
32	113.11	96.86	Shut-In(1)
75	1133.21	98.48	End Shut-In(1)
76	48.27	98.18	Open To Flow (2)
120	107.49	99.25	Shut-In(2)
179	1110.53	100.58	End Shut-In(2)
185	1606.24	100.68	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	270'GIP	0.00
60.00	CO	0.84
45.00	GMO 20%G40%M40%O	0.63
60.00	GMO 20%G10%M70%O	0.84

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

Trilobite Testing, Inc Ref. No: 55328 Printed: 2014.04.19 @ 04:23:04

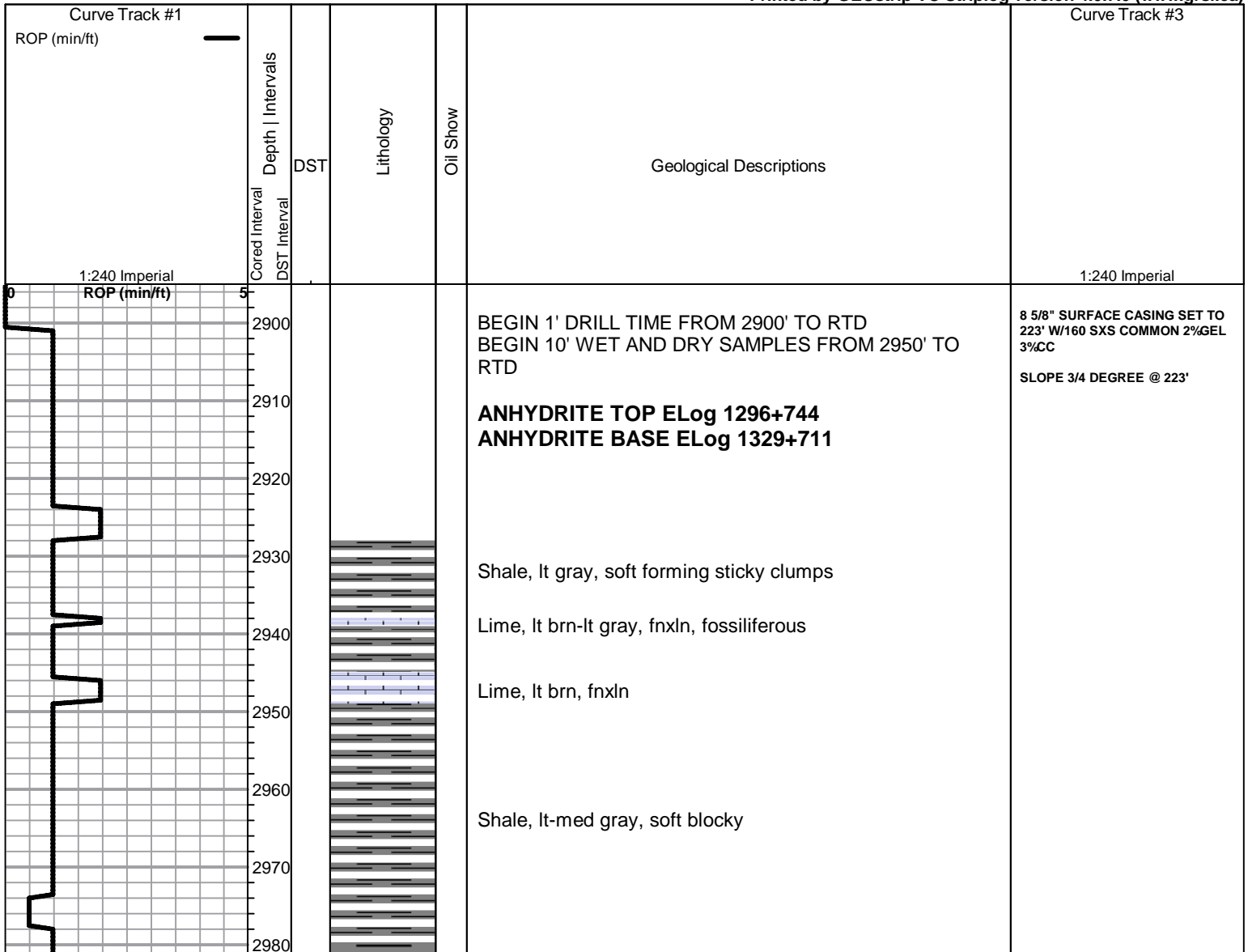
**ROCK TYPES**

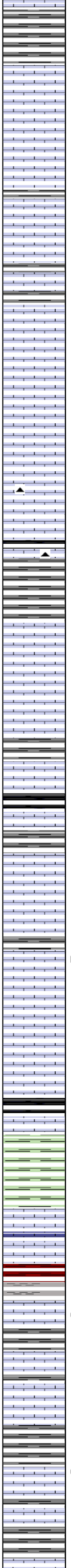
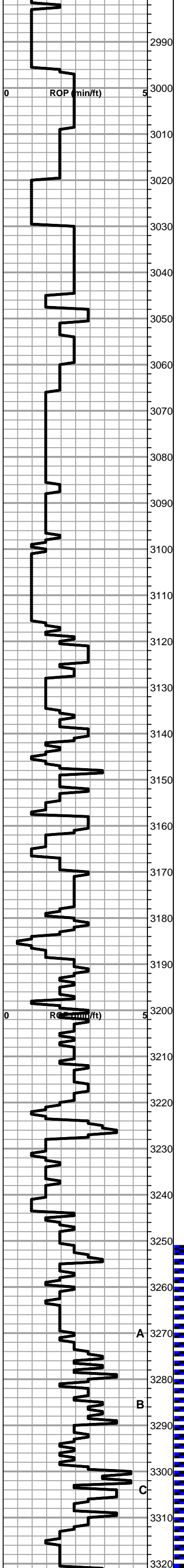
Clystgy	Dolprim	Lmst fw<7	shale, grn	shale, red
Clystcol	Dolsec	Lmst fw>7	shale, gry	Ss
Chtcong	Dol Lime	Lscong	Carbon Sh	

**ACCESSORIES**

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

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





Lime, med brn, fnxln, slightly fossiliferous  
 Shale, lt-med gray, soft-firm blocky with sticky clumps in part

**TOPEKA SPL 2995-955**

Lime, lt-med brn, fnxln

Lime, lt brn-lt gray, fnxln

Lime, crm, fnxln-granular, bedded chalk

Lime, lt brn-lt gray, fnxln, slightly fossiliferous-fusulinids

Lime, lt-med brn-grayish brn, fn-micro xln,

Lime, lt-med brn, fn-micro xln, slightly fossiliferous

Lime, med brn-med grayish brn, fn-micro xln, slightly fossiliferous

Lime, lt-med brn, fnxln-granular

Lime, lt-med brn, granular

Lime, lt brn-lt grayish brn, fnxln, soft on crush

Shale, black carbonaceous, blocky

Shale, med gray, firm blocky, calcareous in part

Lime, crm, fnxln, lithographic, hard bedded chalk

Lime, crm-tan, fnxln, bedded chalk

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

Lime, crm, fn-vfxln

Shale, black carbonaceous, fissile, blocky  
 Lime, grayish brn, fn-micro xln

Shale, med gray, firm blocky, calcareous

Lime, crm-lt brn, fnxln, bedded chalk

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

Lime, lt brn, granular honeycomb with interxln porosity, NFO, No Odor, F-G wet cut on crush

Lime, crm-lt brn, fnxln-granular with chalk matrix in part

Lime, lt-med brn, fnxln

**HEEBNER SHALE SPL 3219-1179**

Shale, black carbonaceous, fissile, blocky  
 Lime, crm, vfxln

Shale, dove gray-lime green, soft forming sticky clumps

**TORONTO SPL 3243-1203**

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

Lime, lt brn-lt gray, vfxln

Shale, soft red with lt red wash

**LKC SPL 3263-1223**

Lime, crm-tan, fn-vfxln, few chips fossiliferous with spotty staining, very lt odor, NFO

Lime, crm, mostly fnxln

Lime, crm-lt brn, fnxln, lt green tint in part

Shale, tan-lt gray, soft mud

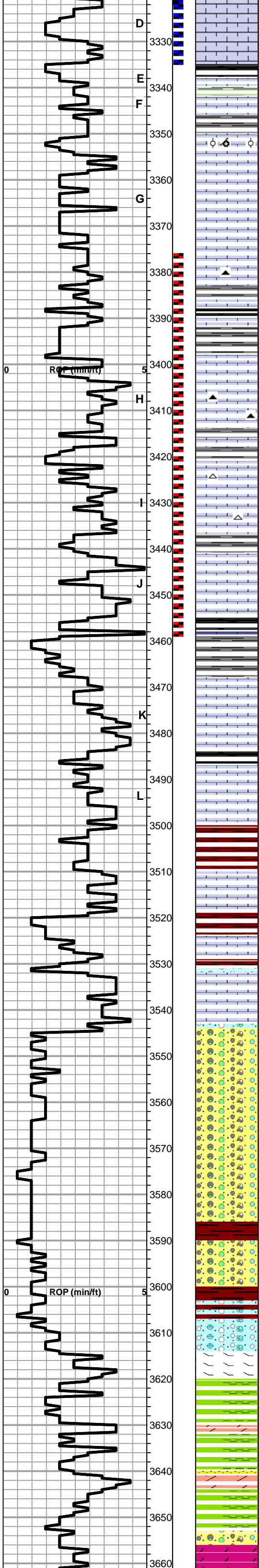
Lime, crm-lt brn, fn-micro xln, spotty staining in part, NFO, very lt odor

Lime, crm, fnxln, Lime, lt-med brn, fn-vfxln

Shale, med grayish green, soft blocky, calcareous in part

Lime, crm, fnxln, bedded chalk

DST # 1 3251' TO 3336' "A"  
 TO "D" LKC  
 SEE HEADER FOR TEST  
 SUMMARY



Lime, crm, fnxln, bedded chalk

Lime, tan-lt gray, fn-vfxln

Shale, black carbonaceous, blocky  
Lime, lt tannish gray, fn-vfxln

Lime, tan-lt brn, fnxln-granular, 2 chips, fine granular, saturated staining, NFO, No odor

Lime, white-crm, fnxln, bedded chalk, few chips oolitic-oomoldic, scattered staining, lt odor, NFO

Lime, offwhite, fn-vfxln, bedded chalk

Lime, offwhite-white, fn-vfxln, slight bedded chalk

Lime, offwhite, fn-vfxln

Shale, black carbonaceous, blocky

Lime, crm, fnxln-granular, lt scattered staining in fine vuggy, fossiliferous lime, NFO, No Odor

Lime, crm-tan, fnxln, cherty

Shale, med gray, soft blocky  
Lime, crm-tan, fnxln-granular

Lime, tan, fn-micro xln, white chert, fresh, sharp

Lime, tan, fn-micro xln, very lt odor, source not found

Lime, crm-white, fn-micro xln, scattered oomoldic chips with lt staining, lt odor, NFO, few saturated chips

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

Shale, black carbonaceous to med gray-grayish green, soft blocky

Lime, crm, fnxln, crumbly in part, trace of hydrocarbon staining, NFO, no odor, lt halo wet cut

Lime, white-crm, fn-vfxln

Lime, crm, crumbly, trace of dead oil staining, NFO, No Odor, grading into bedded chalk with lt chalk wash

**BKC SPL 3500-1460**

Shale, lt gray-red, soft blocky-sticky clumps in part

Lime, lt brn-off white, fnxln, well cemented oolitic in part

Shale, lt red wash, soft mud

Lime, crm-tan, fnxln-granular, slight bedded chalk

Lime, crm, fn-vfxln, slight bedded chalk

**CONGLOMERATE SPL 3544-1504**

Chert, vari colored, mostly fresh, sharp, few chips with flaky gilsonite, NFO, No Odor, fair wet cut

Chert, vari colored, fresh, sharp  
Shale, white, soft sticky clumps

Chert, vari colored with red shales

Chert, vari colored, lt red wash

Chert, vari, colored, white, tans, browns, vari color  
Shale, red-dark brn, soft-soft blocky

Lime, granular with red shale staining

**SIMPSON SHALE SPL 3619-1579**

Shale, blue-green, soft sticky weathered grading into firm, waxy

Shale, blue-green, firm, waxy  
Dolomite, lt brn, fnxln-granular  
SS, few clusters, NS, No staining

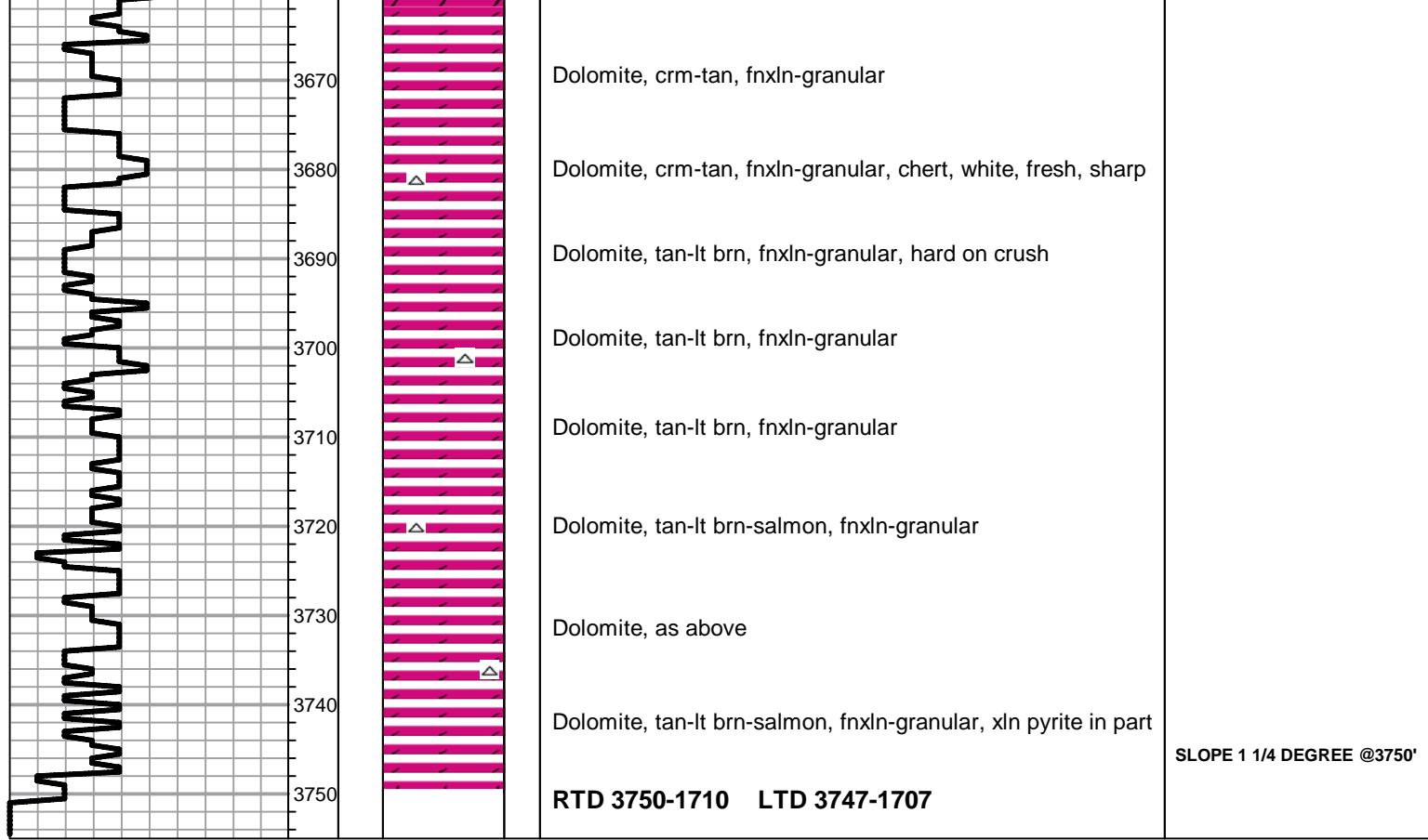
Shale, blue-green, firm, waxy grading into cherty transition

**ARBUCKLE SPL 3656-1616**

Dolomite, crm-tan, fnxln-granular, hard on crush, NS

DST # 2 3376' TO 3460' "H" TO "J" LKC SEE HEADER FOR TEST SUMMARY





# ALLIED OIL & GAS SERVICES, LLC 055191

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Russell, Ks

DATE <u>4.17.14</u>	SEC. <u>22</u>	TWP. <u>10</u>	RANGE <u>17</u>	CALLED OUT	ON LOCATION	JOB START <u>1030</u>	JOB FINISH <u>1100</u>
LEASE <u>Bice</u>	WELL # <u>1</u>	LOCATION <u>Hainville Ks</u>		COUNTY <u>Ross</u>	STATE <u>Ks</u>		
OLD OR NEW (Circle one)		S to AF rd 4 1/2 e to 22nd rd 2 S 1 East					

CONTRACTOR Southwind #1 OWNER

TYPE OF JOB Surface  
HOLE SIZE 12 1/4 T.D.  
CASING SIZE 8 5/8 DEPTH 235' CEMENT AMOUNT ORDERED 1600 sk Com

TUBING SIZE DEPTH  
DRILL PIPE DEPTH  
TOOL DEPTH

PRES. MAX MINIMUM COMMON 140sk @ 17.9 \$ 2,564.00  
MEAS. LINE SHOE JOINT POZMIX @

CEMENT LEFT IN CSG. GEL 302.16 @ 1.24 \$ 372.48  
PERFS. CHLORIDE 453.16 @ 1.80 \$ 815.68  
DISPLACEMENT 14.07 @ 11.20 ASC @

EQUIPMENT @  
@  
@

PUMP TRUCK CEMENTER Amy Plannick @  
# 417 HELPER Larry S @

BULK TRUCK # 378 DRIVER Kevin R @  
BULK TRUCK DRIVER @

HANDLING 1600 sk @ 2.48 \$ 396.80  
MILEAGE 188.75 @ 2.60 \$ 490.75  
TOTAL \$ 4,186.43

REMARKS:

See Cementing Job Log  
Comment to Surface

CHARGE TO: TDF FNC

STREET  
CITY STATE ZIP

To: Allied Oil & Gas Services, 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

SIGNATURE Amy Plannick

SERVICE

DEPTH OF JOB 235'  
PUMP TRUCK CHARGE \$ 1,512.25  
EXTRA FOOTAGE @  
MILEAGE heavy 50m @ 7.7 \$ 385.00  
MANIFOLD high 25m @ 4.4 \$ 110.00  
TOTAL \$ 2,007.25  
Disc 23.70  
@ 25

PLUG & FLOAT EQUIPMENT

@  
@  
@  
@  
@  
TOTAL

SALES TAX (if Any)  
TOTAL CHARGES \$ 6,193.88  
DISCOUNT \$ 1,548.42 25%  
Net. \$ 4,645.26

PAID IN 30 DAYS

JOB LOG

SWIFT Services, Inc.

DATE 4-20-14 PAGE NO. 1

CUSTOMER T D J WELL NO. #1 LEASE Bice JOB TYPE 2-stage TICKET NO. 25477

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0700							on loc w/FE
								RTD 3750'
								5 1/2" x 14# x 3745' x 42'
								Cent 1, 3, 5, 9, 3, 8, 10, 12, 5-7
								Back 3, 15, 5-8
								DV 58 @ 1287'
	0830							start FE
	1000							Break Circ.
	1100	5	0			200		Start Preflushes 500 gal mud flush, 20 bbl KCL flush
		5	32/0			200		Start 150sks EA-2 Cement
	1115		36			200		End Cement
								Wash P&L
								Drop L.D. Plug
	1120	6	0			200		Start Displacement w/tr
		5	60			200		C mud
		5	70			200		KCL
	1140		90.5			700/1500		Land Plug
								Release Pressure
								Float Held
								Drop opening Plug
	1145	2	7/4					Plug RHMH 30/15sks SMD
	1155					1400		Open DV
	1156	6	0			200		Start SMD 155sks SMD
	1210		86					End Cement
								Drop Closing Plug
								Wash P&L
	1222	5	0			200		Start Displacement
			0			200		Circ Cement
	1230		31.5			400/1500		Land Plug
								Release Pressure
								DV Closed
								circ 50sks to pit
								Thank you Nick, David E. & Jared