



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1150635  
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: \_\_\_\_\_



1150635

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](mailto: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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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**OPERATOR**

Company: TDI, INC  
 Address: 1310 BISON ROAD  
 HAYS, KANSAS 67601

Contact Geologist: TOM DENNING  
 Contact Phone Nbr: 785-628-2593  
 Well Name: GEORGE # 1  
 Location: NW SW SE NW Sec 18-12s-18w  
 Pool: WILDCAT  
 State: KANSAS

API: 15-051-26,528-00-00  
 Field: UNNAMED  
 Country: USA



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

Scale 1:240 Imperial

Well Name: GEORGE # 1  
 Surface Location: NW SW SE NW Sec 18-12s-18w  
 Bottom Location:  
 API: 15-051-26,528-00-00  
 License Number: 4787  
 Spud Date: 6/14/2013  
 Region: ELLIS COUNTY  
 Drilling Completed: 6/20/2013  
 Surface Coordinates: 2040' FNL & 1360' FWL  
 Bottom Hole Coordinates:  
 Ground Elevation: 2207.00ft  
 K.B. Elevation: 2217.00ft  
 Logged Interval: 3000.00ft  
 Total Depth: 3900.00ft  
 Formation: LANSING-KANSAS CITY  
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

Time: 4:30 PM  
 Time: 1:03 PM  
 To: 3900.00ft

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: Latitude:  
 N/S Co-ord: 2040' FNL  
 E/W Co-ord: 1360' FWL

**LOGGED BY**

Company: SOLUTIONS CONSULTING, INC.  
 Address: 108 W 35TH  
 HAYS, KS 67601

Phone Nbr: (785) 639-1337  
 Logged By: Geologist  
 Name: HERB DEINES

**CONTRACTOR**

Contractor: SOUTHWIND DRILLING INC.  
 Rig #: 1  
 Rig Type: MUD ROTARY

Rig Type: MUD ROTARY  
 Spud Date: 6/14/2013  
 TD Date: 6/20/2013  
 Rig Release: 6/21/2013

Time: 4:30 PM  
 Time: 1:03 PM  
 Time: 2:00 AM

**ELEVATIONS**

K.B. Elevation: 2217.00ft                      Ground Elevation: 2207.00ft  
 K.B. to Ground: 10.00ft

**NOTES**

RECOMMENDATION TO PLUG AND ABANDON WELL DUE TO NEGATIVE RESULTS OF TWO DRILL STEM TESTS AND LOG ANALYSIS OF ZONES WITH SHOWS OF STAINING IN SAMPLES. ALL ZONES WITH STAINING NOTED IN THE SAMPLES WERE INCLUDED IN DST INTERVALS.

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 TOPS SUMMARY AND CHRONOLOGY OF DAILY ACTIVITY**

<b>GEORGE # 1</b>	<b>JOY # 18-1</b>
<b>2040' FNL &amp; 1360' FWL, NW/4</b>	<b>W2 W2 E2</b>
<b>Sec. 18-12s-18w</b>	<b>Sec 18-12s-18w</b>
<b>2207' GL 2217' KB</b>	<b>Reference Well</b>

<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>
Anhydrite	1536+ 681	1533+ 684	+ 698
B-Anhydrite	1571+ 646	1567+ 650	+ 663
Topeka	3231-1014	3228-1011	-1007
Heebner Shale	3462-1245	3459-1242	-1237
Toronto	3481-1264	3479-1262	-1261
LKC	3509-1292	3503-1286	-1285
BKC	3742-1525	3549-1532	-1531
Arbuckle	NONE	NONE	
RTD	3900-1683		
LTD		3898-1681	

**SUMMARY OF DAILY ACTIVITY**

6-14-13      spud 4:30 PM, set 8 5/8" surface pipe to 223.8' w/ 150sxs Common  
 2%gel 3%CC, plug down 8:45 PM, slope 1 degree, WOC 8 hrs

6-15-13      330', drilling


6-16-13      1900', drilling

6-17-13      2730', drilling, displace 3060'-3092'

6-18-13      3407' drilling, short trip, DST # 1 3460' to 3504' Toronto - "A" to

- 6-18-13 3407', drilling, short trip, DST # 1 3460' to 3594' Toronto - A to "F" LKC, slope @ 3594' 1 degree
- 6-19-13 3594', TIWB, drilling, DST # 2 3618'-3700' "H" to "J" LKC
- 6-20-13 3700', drilling, RTD 3900'@1:03PM, mini short trip, TOWB, logs, TIWB, LDDP to plug and abandon
- 6-21-13 3900', finish LDDP and plugging, RD

### DST # 1 TEST SUMMARY

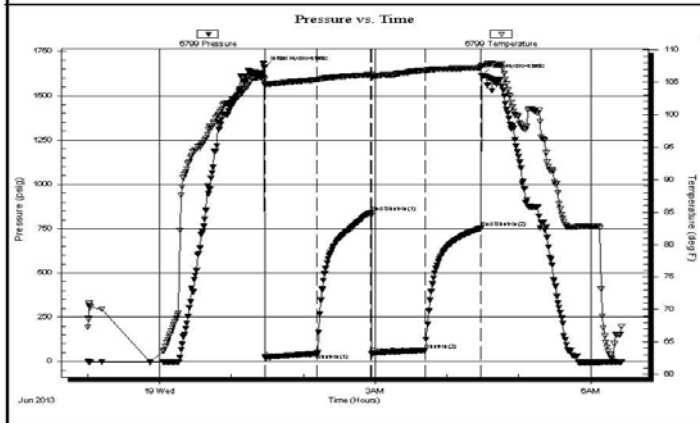
	<b>DRILL STEM TEST REPORT</b>	
	TDI, Inc 1310 Bison RD Hays KS, 67601 ATTN: Herb	<b>18-12s-18w Ellis KS</b> <b>George #1</b> Job Ticket: 53915 <b>DST#: 1</b> Test Start: 2013.06.18 @ 23:00:00

**GENERAL INFORMATION:**

Formation: <b>Tor - LKC "A-F"</b>	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock:                      ft (KB)	Tester: Cody Bloedorn
Time Tool Opened: 01:28:00	Unit No: 43
Time Test Ended: 06:26:30	Reference Elevations: 2203.00 ft (KB)
<b>Interval: 3460.00 ft (KB) To 3594.00 ft (KB) (TVD)</b>	2195.00 ft (CF)
Total Depth: 3594.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair

<b>Serial #: 6799</b> <b>Inside</b>	Capacity: 8000.00 psig
Press@RunDepth: 63.17 psig @ 3589.00 ft (KB)	Last Calib.: 2013.06.19
Start Date: 2013.06.18      End Date: 2013.06.19	Time On Btm: 2013.06.19 @ 01:27:30
Start Time: 23:00:05      End Time: 06:26:29	Time Off Btm: 2013.06.19 @ 04:28:45

**TEST COMMENT:** 45 - IF- 7" blow  
 45 - IS- No return  
 45 - FF- 1 1/4" blow  
 45 - FS- No return


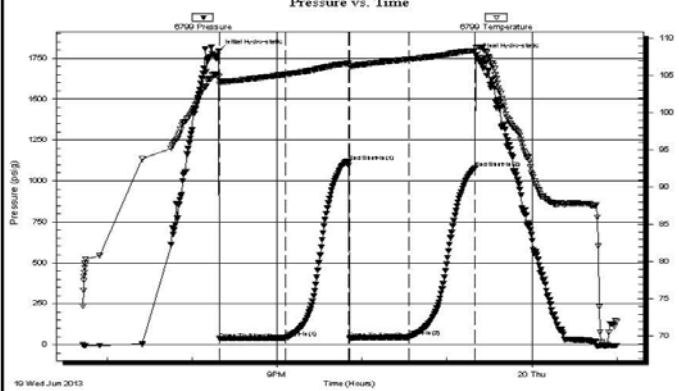


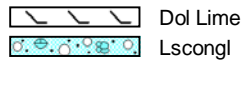
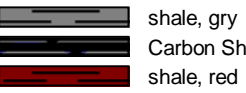
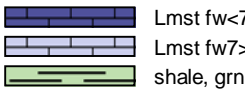
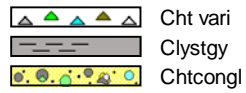
PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1659.40	105.44	Initial Hydro-static
1	20.54	104.84	Open To Flow (1)
44	45.48	105.40	Shut-In(1)
89	840.63	106.20	End Shut-In(1)
90	46.15	105.94	Open To Flow (2)
135	63.17	106.83	Shut-In(2)
181	752.63	107.23	End Shut-In(2)
182	1616.65	107.59	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
107.00	Mud, with show of oil, 100%M	1.50

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

**DST # 2 TEST SUMMARY**

 <p><b>TRILOBITE TESTING, INC.</b></p>	<p><b>DRILL STEM TEST REPORT</b></p>																																						
TDI, Inc 1310 Bison RD Hays KS, 67601 ATTN: Herb	<p><b>18-12s-18w Ellis KS</b></p> <p><b>George #1</b></p> Job Ticket: 53916 <b>DST#: 2</b> Test Start: 2013.06.19 @ 18:43:00																																						
<p><b>GENERAL INFORMATION:</b></p> Formation: <b>"H,I,J"</b> Deviated: No Whipstock      ft (KB) Time Tool Opened: 20:19:15 Time Test Ended: 00:59:30 Test Type: Conventional Bottom Hole (Reset) Tester: Cody Bloedorn Unit No: 43 Interval: <b>3618.00 ft (KB) To 3700.00 ft (KB) (TVD)</b> Reference Elevations: 2203.00 ft (KB) Total Depth: 3700.00 ft (KB) (TVD)      2195.00 ft (CF) Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 8.00 ft																																							
<p><b>Serial #: 6799      Inside</b></p> Press@RunDepth: 46.81 psig @ 3685.00 ft (KB) Start Date: 2013.06.19      End Date: 2013.06.20 Start Time: 18:43:05      End Time: 00:59:29		Capacity: 8000.00 psig Last Calib.: 2013.06.20 Time On Btm: 2013.06.19 @ 20:19:00 Time Off Btm: 2013.06.19 @ 23:20:30																																					
<p><b>TEST COMMENT:</b> 45 - IF- 5.5' blow                  45 - IS- No return                  45 - FF- 7" blow                  45 - FS- No return</p>																																							
<p style="text-align: center;"><b>Pressure vs. Time</b></p> 		<p><b>PRESSURE SUMMARY</b></p> <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>1797.86</td><td>104.88</td><td>Initial Hydro-static</td></tr> <tr><td>1</td><td>35.84</td><td>103.82</td><td>Open To Flow (1)</td></tr> <tr><td>47</td><td>41.46</td><td>105.17</td><td>Shut-In(1)</td></tr> <tr><td>92</td><td>1117.00</td><td>106.63</td><td>End Shut-In(1)</td></tr> <tr><td>92</td><td>39.11</td><td>106.30</td><td>Open To Flow (2)</td></tr> <tr><td>134</td><td>46.81</td><td>107.18</td><td>Shut-In(2)</td></tr> <tr><td>181</td><td>1081.59</td><td>108.37</td><td>End Shut-In(2)</td></tr> <tr><td>182</td><td>1770.61</td><td>108.73</td><td>Final Hydro-static</td></tr> </tbody> </table>		Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	1797.86	104.88	Initial Hydro-static	1	35.84	103.82	Open To Flow (1)	47	41.46	105.17	Shut-In(1)	92	1117.00	106.63	End Shut-In(1)	92	39.11	106.30	Open To Flow (2)	134	46.81	107.18	Shut-In(2)	181	1081.59	108.37	End Shut-In(2)	182	1770.61	108.73	Final Hydro-static
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**ACCESSORIES**

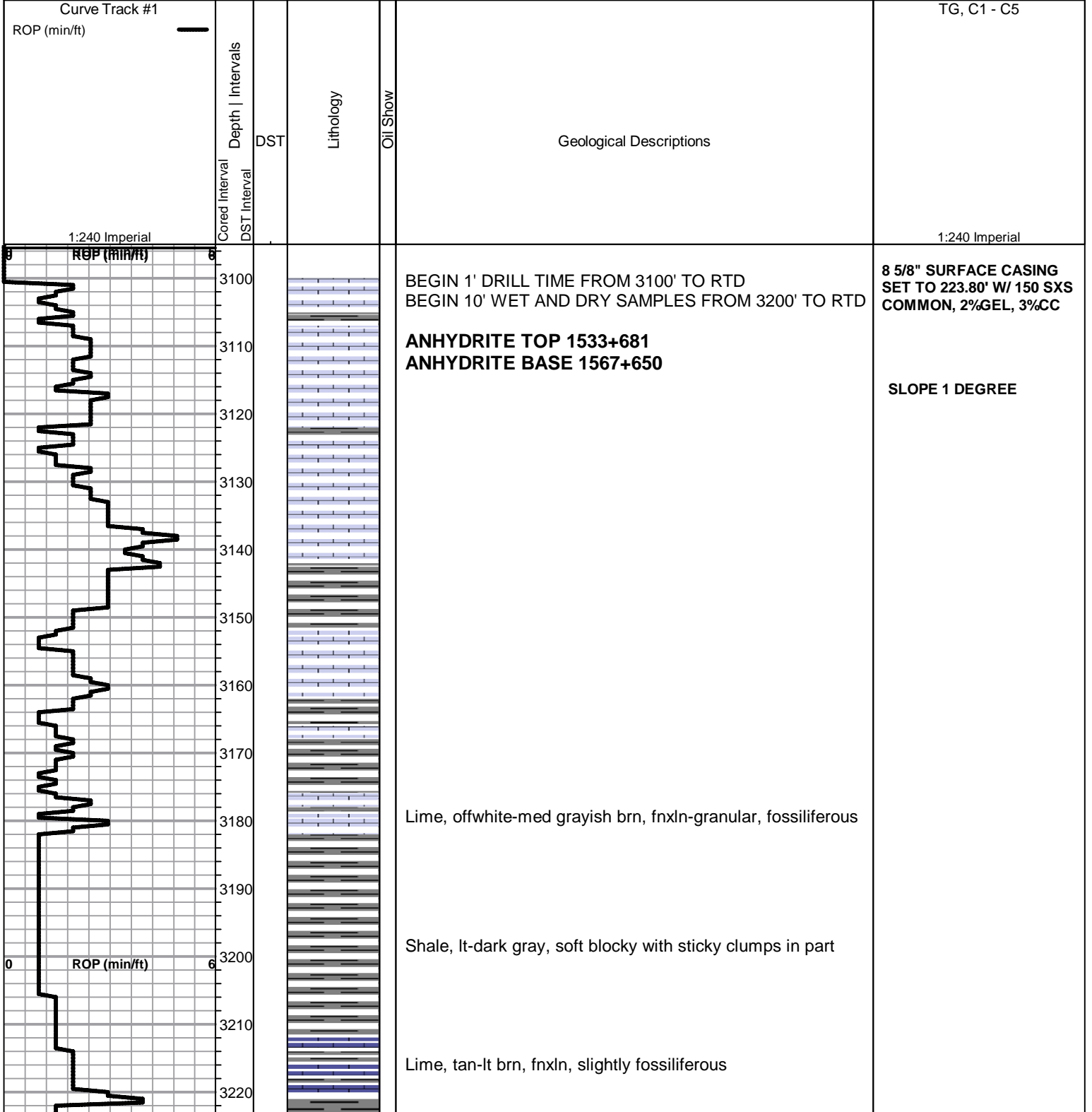
- MINERAL**  
 ▲ Chert, dark  
 P Pyrite  
 △ Chert White

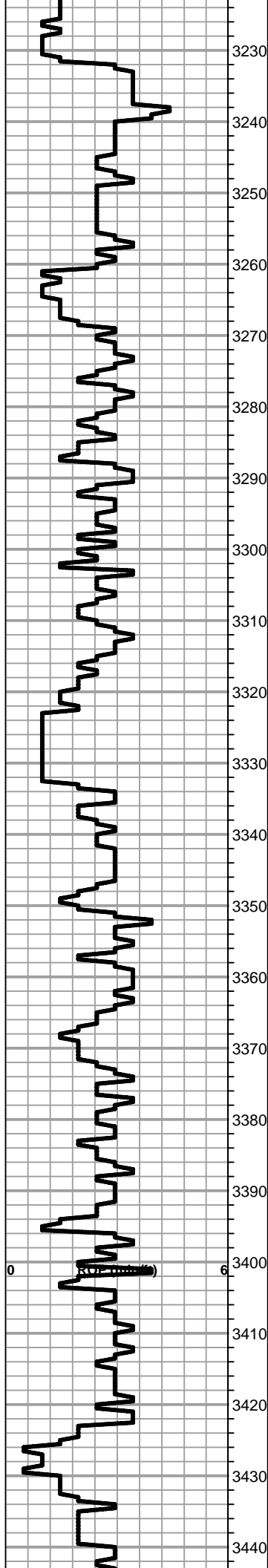
- FOSSIL**  
 ◊ Oolite

**OTHER SYMBOLS**

- DST**  
 ■ DST Int  
 ■ DST alt  
 ■ Core

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





Shale, lt gray, soft blocky

**TOPEKA SPL 3231-1014**

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

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

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

Lime, tan-lt brn, fnxln-granular, NS

Lime, lt-med grayish brn, fnxln

Lime, med brn-gray, fnxln, hard on crush in part

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

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

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

Lime, lt-med brn, granular, fossiliferous, NS

Lime, med brn, granular, slightly fossiliferous

Shale, black carbonaceous, fissile, blocky

Lime, tan-lt brn, fnxln, microfossils, slight bedded chalk

Lime, crm-tan, fn-vfxln, lithographic in part with thin bedded chalk

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

Lime, tan-lt brn, fnxln-granular, slightly fossiliferous, slight chalk in part, NS

Lime, crm-lt brn, fnxln, slight chalk, slightly fossiliferous

Lime, tan-med grayish brn, fnxln, thin fossil beds near lime/shale boundary

Shale, black carbonaceous, fissile, blocky

Lime, tan-lt brn, fnxln

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

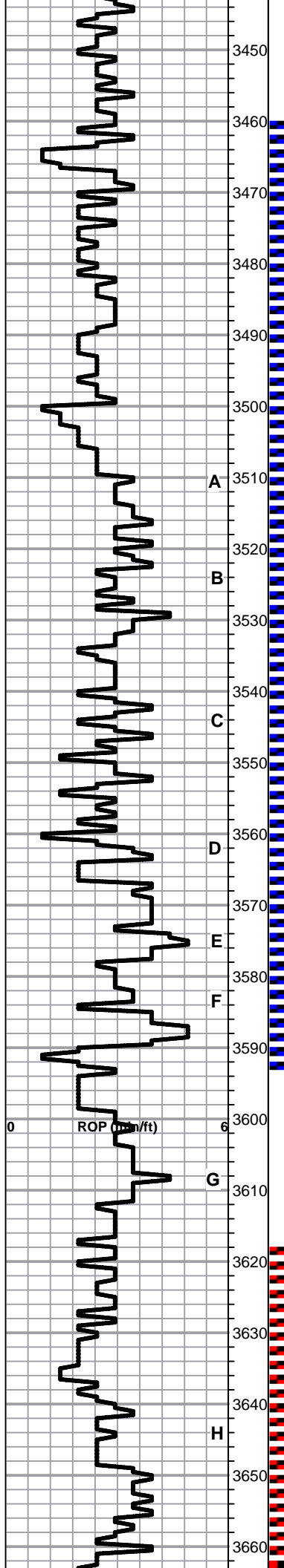
Lime, lt-med brn, fnxln, slight bedded chalk

Shale, med gray, firm blocky

Lime, lt brn, granular, light chalky matrix in part, NS

Lime, med brn-med grayish brn, fnxln, slight bedded chalk





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

Lime, med brn-med grayish brn, fnxln

**HEEBNER SHALE SPL 3462-1245**

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

Shale, lt gray-lime green, soft blocky

**TORONTO SPL 3481-1264**

Lime, white-crm, fnxln, very clean in appearance, scattered fine oolitic material, ppt vug porosity, scat-sat stain, NFO, No Odor

Shale, lt gray-lime green, forming soft mud clumps in part

**LKC SPL 3509-1292**

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

Lime, lt brn-lt gray, fnxln

Lime, crm-lt brn, fn-micro xln, slight bedded chalk in part  
Shale, med gray, firm, blocky

Lime, crm-tan, fnxln, bedded chalk, thin bed of fossil fragments-crinoids, scattered staining, NFO, No Odor

Lime, crm-tan, fnxln, few chips sparry calcite backfill with xln growth in voids

Lime, crm-lt brn, fnxln, thin oolitic bed, scattered staining, NFO, No Odor, interoolitic porosity

Lime, crm-tan, fnxln, chalk in part  
Shale, black carbonaceous, fissile

Lime, lt brn, fnxln-granular, spotty staining, NFO, No Odor, white chert, fresh, sharp

Lime, lt brn, dolomitic, porous, vuggy, hard on crush,

Lime, offwhite-tan, fnxln, slight bedded chalk

Lime, crm, fnxln, bedded chalk

Lime, lt gray-tan, fn-vfxln, slight bedded chalk

Lime, lt-med brn, mostly fnxln, slight bedded chalk

Lime, lt-dark brn, fnxln

Shale, lime green, soft sticky clumps

Lime, crm-tan, fnxln, trace of lt stain in scattered fine ppt vuggy porosity, NFO, No Odor

Lime, lt-med brn, fnxln

Lime, lt-med brn, fn-vfxln

Shale, med gray, firm blocky  
Lime, crm-lt brn, fnxln, bedded chalk

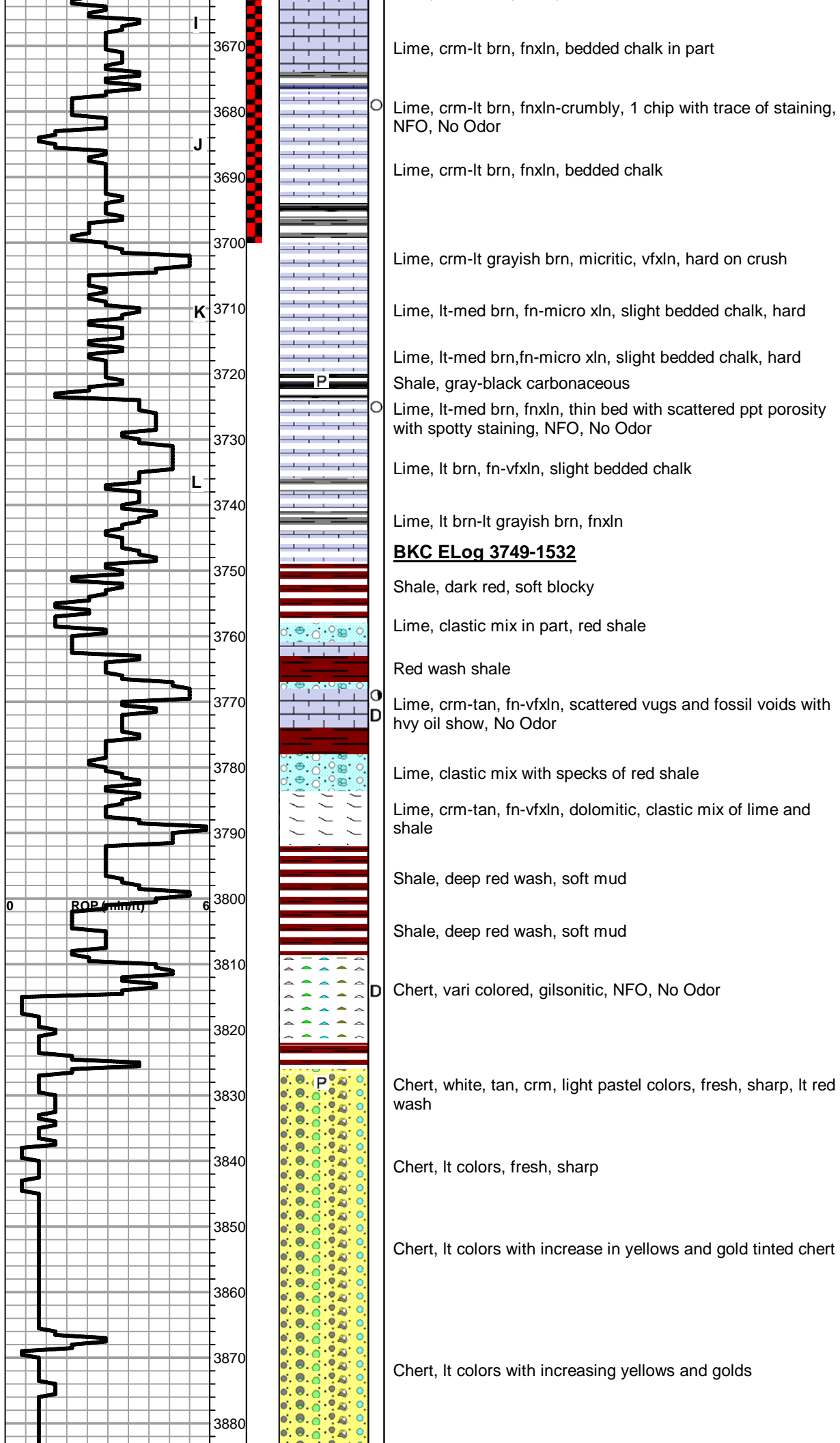
DST # 1 3460' TO 3594'  
SEE HEADER FOR TEST SUMMARY

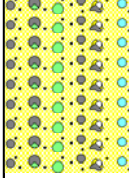
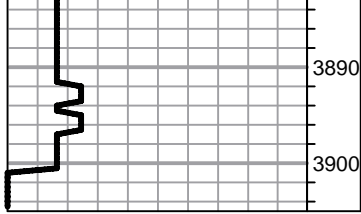
CFS @ 3555'

CFS 3594'  
SLOPE @ 3594' 1 DEG

PIPE STRAP  
BOARD 3597.01  
STRAP 3594.85

DST # 2 3618' TO 3700'  
SEE HEADER FOR TEST SUMMARY





Cherts, as above  
No dolomite or Simson shale found in samples at RTD

**RTD 3900-1683**

**LTD 3898-1681**

# 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. 6969

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-14-13	18	12	18	ELLIS	KANSAS		8:45pm
Lease				Location			
George				Hays N to BUCKEYE 2 W 1/2 S W INTO			
Contractor		Well No.		Owner			
S.W.D #1		1		T.D.I.			
Type Job				To Quality Oilwell Cementing, Inc.			
SURFACE				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		T.D.		Charge To			
12 1/4"		224'		T.D.I.			
Csg.		Depth		Street			
8 5/8"		223'		1310 BOSON RD			
Tbg. Size		Depth		City		State	
				Hays		KS, 67601	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered			
		15'		150 com - 32 - 2 1/2 1/4 Flt			
Meas Line		Displace		Common			
		13 BBLs		150			
EQUIPMENT				Poz. Mix			
Pumptrk #15		Cementer		Gel.			
		LONNIE W		3			
Bulktrk #		Helper		Calcium			
		NICK W		5			
Bulktrk #		Driver		Hulls			
		BILLY K.		Ø			
Bulktrk P/W		Driver		Salt			
		CISCO A.		Flowseal			
JOB SERVICES & REMARKS				Kol-Seal			
Remarks:				Mud CLR 48			
Rat Hole				CFL-117 or CD110 CAF 38			
Mouse Hole				Sand			
Centralizers				Handling 158			
Baskets				Mileage			
D/V or Port Collar				Cement did CIRCULATE!			
				FLOAT EQUIPMENT			
				Guide Shoe			
				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge			
				Surface			
				Mileage			
				11			
THANK YOU!				Tax			
				Discount			
X Signature				Total Charge			
Frank Rome							

# 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. 7953

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-21-13	18	12	18	Ellis	KS		3:30 AM

Location Naysv Buckeye rd 2 1/2 W into

Lease <u>George</u>	Well No.	Owner
Contractor <u>Sawthorn #1</u>		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.
Type Job <u>Rotary Plug</u>		
Hole Size <u>2 7/8</u>	T.D. <u>3900</u>	Charge To <u>TDI</u>
Csg.	Depth	Street
Tbg. Size	Depth	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered <u>220 60/40 4 1/2 LEL 1/4 # Flt</u>
Meas Line	Displace	

**EQUIPMENT**

Pumptrk <u>15</u>	No.	Cementer <u>Spig</u>	Common <u>132</u>
		Helper <u>Wick</u>	Poz. Mix <u>88</u>
Bulktrk	No.	Driver	Gel. <u>8</u>
Bulktrk <u>14</u>	No.	Driver <u>Doug</u>	Calcium

**JOB SERVICES & REMARKS**

Remarks:	Hulls
Rat Hole <u>30SK</u>	Salt
Mouse Hole <u>15SK</u>	Flowseal <u>50#</u>
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
<u>1st 1570 25SK</u>	Sand
<u>2nd 855 100SK</u>	Handling <u>278</u>
<u>3rd 275 40SK</u>	Mileage
<u>4th 40 10SK</u>	

**FLOAT EQUIPMENT**

	Guide Shoe
	Centralizer
	Baskets <u>8 5/8 wooden Plug</u>
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge <u>plug</u>
	Mileage <u>11</u>

	Tax
	Discount
	Total Charge

X Signature Red K



## DRILL STEM TEST REPORT

Prepared For: **TDI, Inc**

1310 Bison RD  
Hays KS 67601

ATTN: Herb Deines

**George #1**

**18-12s-18w Ellis,KS**

Start Date: 2013.06.18 @ 23:00:00

End Date: 2013.06.19 @ 06:26:30

Job Ticket #: 53915                      DST #: 1

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

Printed: 2013.06.22 @ 08:29:45

TDI, Inc  
18-12s-18w Ellis,KS  
George #1  
DST # 1  
Tor - LKC "F"  
2013.06.18



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**18-12s-18w Ellis, KS**  
**George #1**  
 Job Ticket: 53915 **DST#: 1**  
 Test Start: 2013.06.18 @ 23:00:00

## GENERAL INFORMATION:

Formation: **Tor - LKC "F"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:28:00  
 Time Test Ended: 06:26:30  
 Interval: **3460.00 ft (KB) To 3594.00 ft (KB) (TVD)**  
 Total Depth: 3594.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Cody Bloedorn  
 Unit No: 43  
 Reference Elevations: 2203.00 ft (KB)  
 2195.00 ft (CF)  
 KB to GR/CF: 8.00 ft

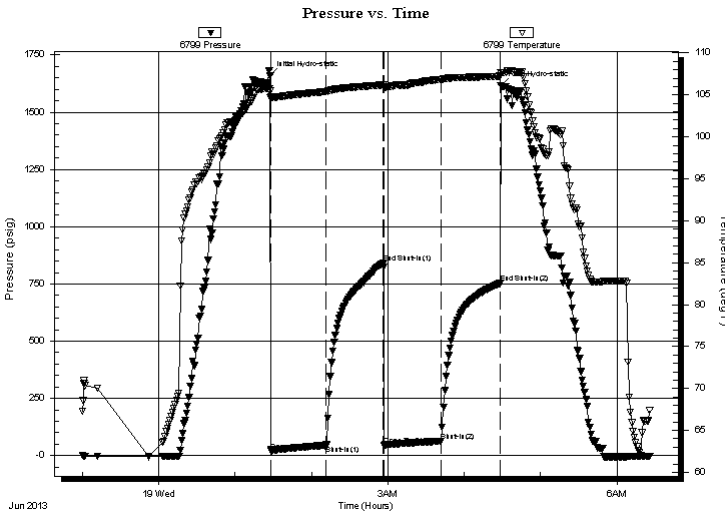
## Serial #: 6799

Inside

Press @ Run Depth: 63.17 psig @ 3589.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.06.18 End Date: 2013.06.19 Last Calib.: 2013.06.19  
 Start Time: 23:00:05 End Time: 06:26:29 Time On Btm: 2013.06.19 @ 01:27:30  
 Time Off Btm: 2013.06.19 @ 04:28:45

TEST COMMENT: 45 - IF- 7" blow  
 45 - IS- No return  
 45 - FF- 1 1/4" blow  
 45 - FS- No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1659.40	105.44	Initial Hydro-static
1	20.54	104.84	Open To Flow (1)
44	45.48	105.40	Shut-In(1)
89	840.63	106.20	End Shut-In(1)
90	46.15	105.94	Open To Flow (2)
135	63.17	106.83	Shut-In(2)
181	752.63	107.23	End Shut-In(2)
182	1616.65	107.59	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
107.00	Mud, with show of oil, 100%M	1.50

## 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  
ATTN: Herb Deines

**18-12s-18w Ellis,KS**  
**George #1**  
Job Ticket: 53915      **DST#: 1**  
Test Start: 2013.06.18 @ 23:00:00

### Tool Information

Drill Pipe:	Length: 3474.00 ft	Diameter: 3.80 inches	Volume: 48.73 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 38000.00 lb
			<u>Total Volume: 48.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	35.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3460.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	134.00 ft			
Tool Length:	155.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3440.00	
Shut In Tool	5.00			3445.00	
Hydraulic tool	5.00			3450.00	
Packer	5.00			3455.00	21.00      Bottom Of Top Packer
Packer	5.00			3460.00	
Perforations	3.00			3463.00	
Change Over Sub	1.00			3464.00	
Drill Pipe	124.00			3588.00	
Change Over Sub	1.00			3589.00	
Recorder	0.00	6799	Inside	3589.00	
Recorder	0.00	8648	Outside	3589.00	
Perforations	2.00			3591.00	
Bullnose	3.00			3594.00	134.00      Bottom Packers & Anchor

**Total Tool Length: 155.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

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

**18-12s-18w Ellis,KS**  
**George #1**  
Job Ticket: 53915      **DST#: 1**  
Test Start: 2013.06.18 @ 23:00:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1800.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

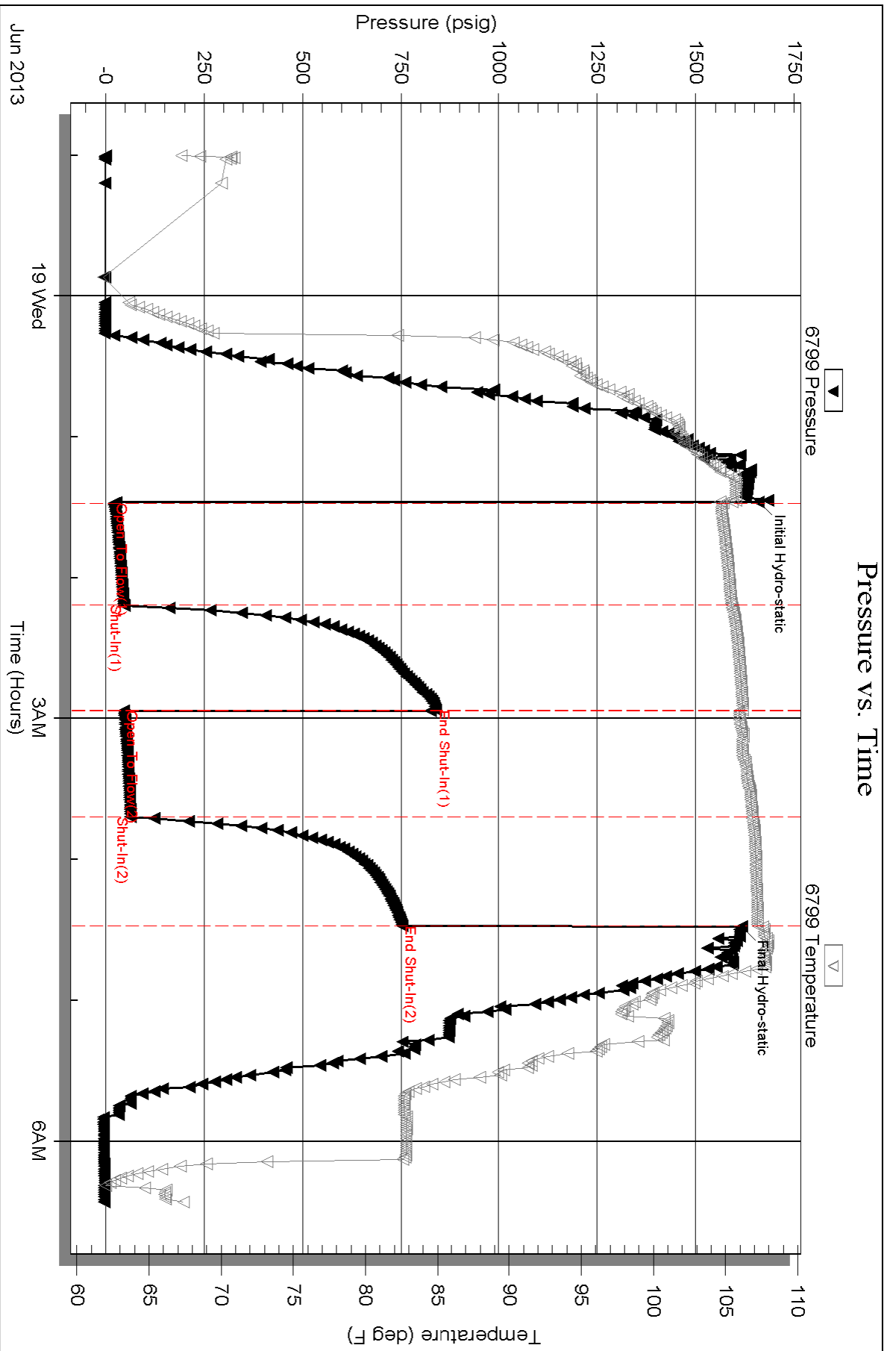
Length ft	Description	Volume bbl
107.00	Mud, w ith show of oil, 100%M	1.501

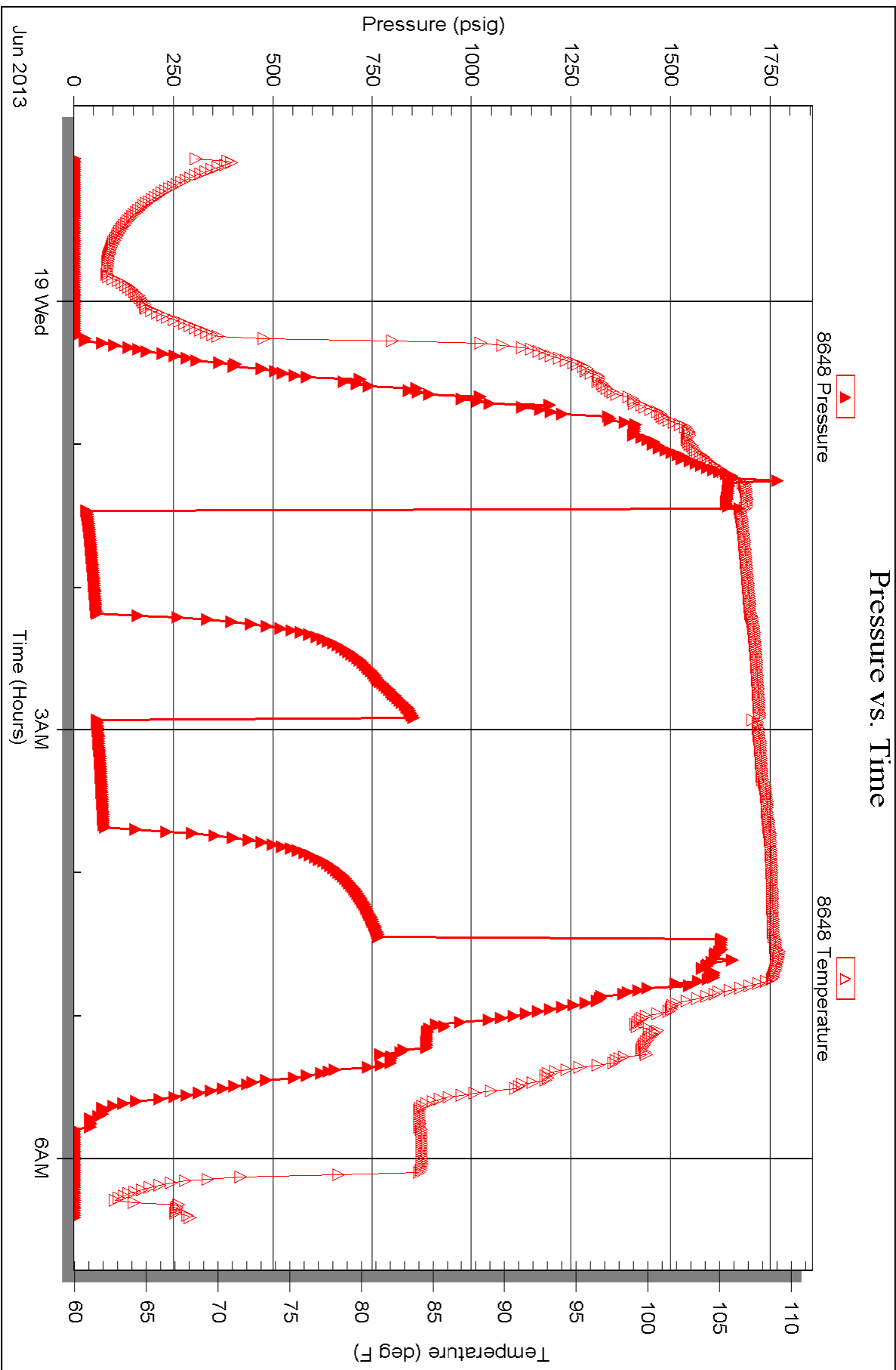
Total Length: 107.00 ft      Total Volume: 1.501 bbl

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

ATTN: Herb Deines

**George #1**

**18-12s-18w Ellis,KS**

Start Date: 2013.06.19 @ 18:43:00

End Date: 2013.06.20 @ 00:59:30

Job Ticket #: 53916                      DST #: 2

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

Printed: 2013.06.22 @ 08:33:45

TDI, Inc  
18-12s-18w Ellis,KS  
George #1  
DST # 2  
LKC "H-J"  
2013.06.19



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**18-12s-18w Ellis, KS**  
**George #1**  
 Job Ticket: 53916 **DST#: 2**  
 Test Start: 2013.06.19 @ 18:43:00

## GENERAL INFORMATION:

Formation: **LKC "H-J"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:19:15  
 Time Test Ended: 00:59:30  
 Interval: **3618.00 ft (KB) To 3700.00 ft (KB) (TVD)**  
 Total Depth: 3700.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Cody Bloedorn  
 Unit No: 43  
 Reference Elevations: 2203.00 ft (KB)  
 2195.00 ft (CF)  
 KB to GR/CF: 8.00 ft

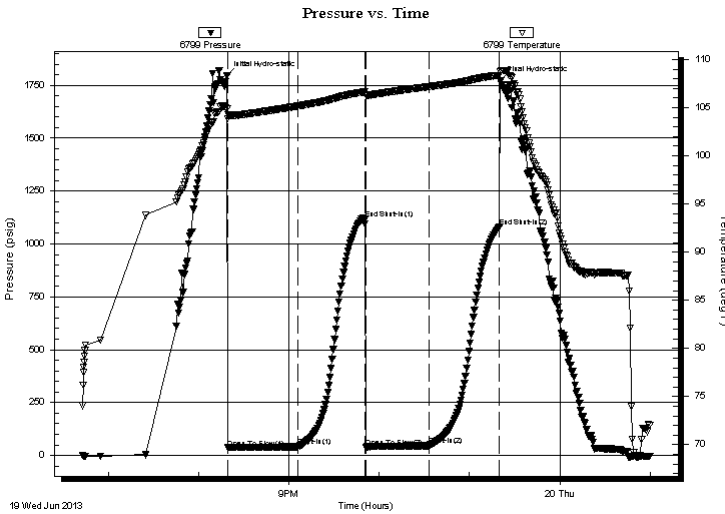
## Serial #: 6799

Inside

Press @ Run Depth: 46.81 psig @ 3685.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.06.19 End Date: 2013.06.20 Last Calib.: 2013.06.20  
 Start Time: 18:43:05 End Time: 00:59:29 Time On Btm: 2013.06.19 @ 20:19:00  
 Time Off Btm: 2013.06.19 @ 23:20:30

TEST COMMENT: 45 - IF- 5 1/2" blow  
 45 - IS- No return  
 45 - FF- 7" blow  
 45 - FS- No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1797.86	104.88	Initial Hydro-static
1	35.84	103.82	Open To Flow (1)
47	41.46	105.17	Shut-In(1)
92	1117.00	106.63	End Shut-In(1)
92	39.11	106.30	Open To Flow (2)
134	46.81	107.18	Shut-In(2)
181	1081.59	108.37	End Shut-In(2)
182	1770.61	108.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
35.00	GMCO, 5%G, 40%M, 55%O	0.49
0.00	30' of G.I.P.	0.00

\* 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  
ATTN: Herb Deines

**18-12s-18w Ellis,KS**  
**George #1**  
Job Ticket: 53916      **DST#: 2**  
Test Start: 2013.06.19 @ 18:43:00

**Tool Information**

Drill Pipe:	Length: 3629.00 ft	Diameter: 3.80 inches	Volume: 50.91 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 42000.00 lb
			<u>Total Volume: 50.91 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	3618.00 ft			Final 37000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	103.00 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			3598.00	
Shut In Tool	5.00			3603.00	
Hydraulic tool	5.00			3608.00	
Packer	5.00			3613.00	21.00      Bottom Of Top Packer
Packer	5.00			3618.00	
Perforations	3.00			3621.00	
Change Over Sub	1.00			3622.00	
Drill Pipe	62.00			3684.00	
Change Over Sub	1.00			3685.00	
Recorder	0.00	6799	Inside	3685.00	
Recorder	0.00	8648	Outside	3685.00	
Perforations	12.00			3697.00	
Bullnose	3.00			3700.00	82.00      Bottom Packers & Anchor

**Total Tool Length: 103.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

TDI, Inc

**18-12s-18w Ellis,KS**

1310 Bison RD  
Hays KS 67601

**George #1**

Job Ticket: 53916

**DST#: 2**

ATTN: Herb Deines

Test Start: 2013.06.19 @ 18:43:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	GMCO, 5%G, 40%M, 55%O	0.491
0.00	30' of G.I.P.	0.000

Total Length: 35.00 ft      Total Volume: 0.491 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

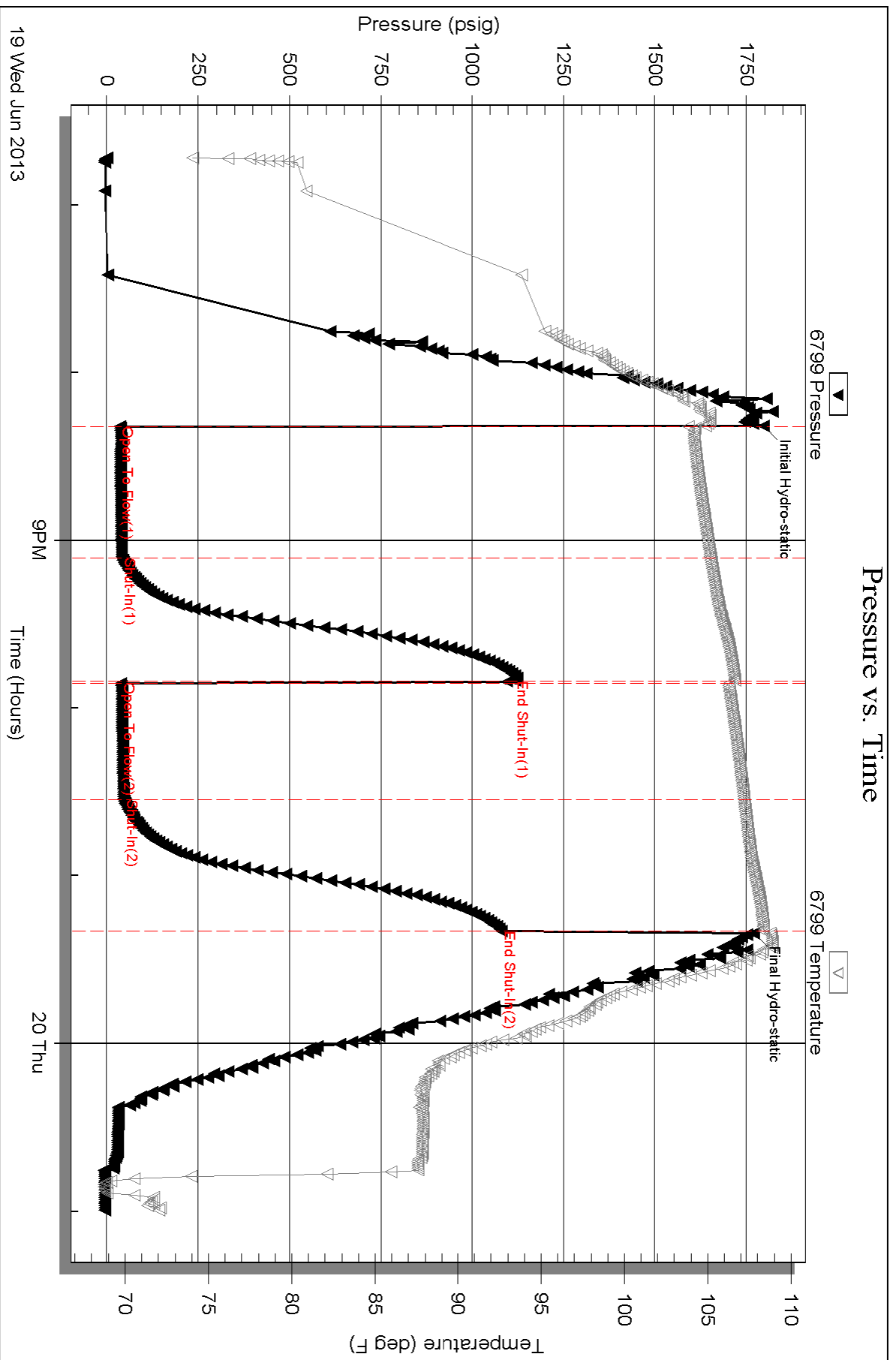
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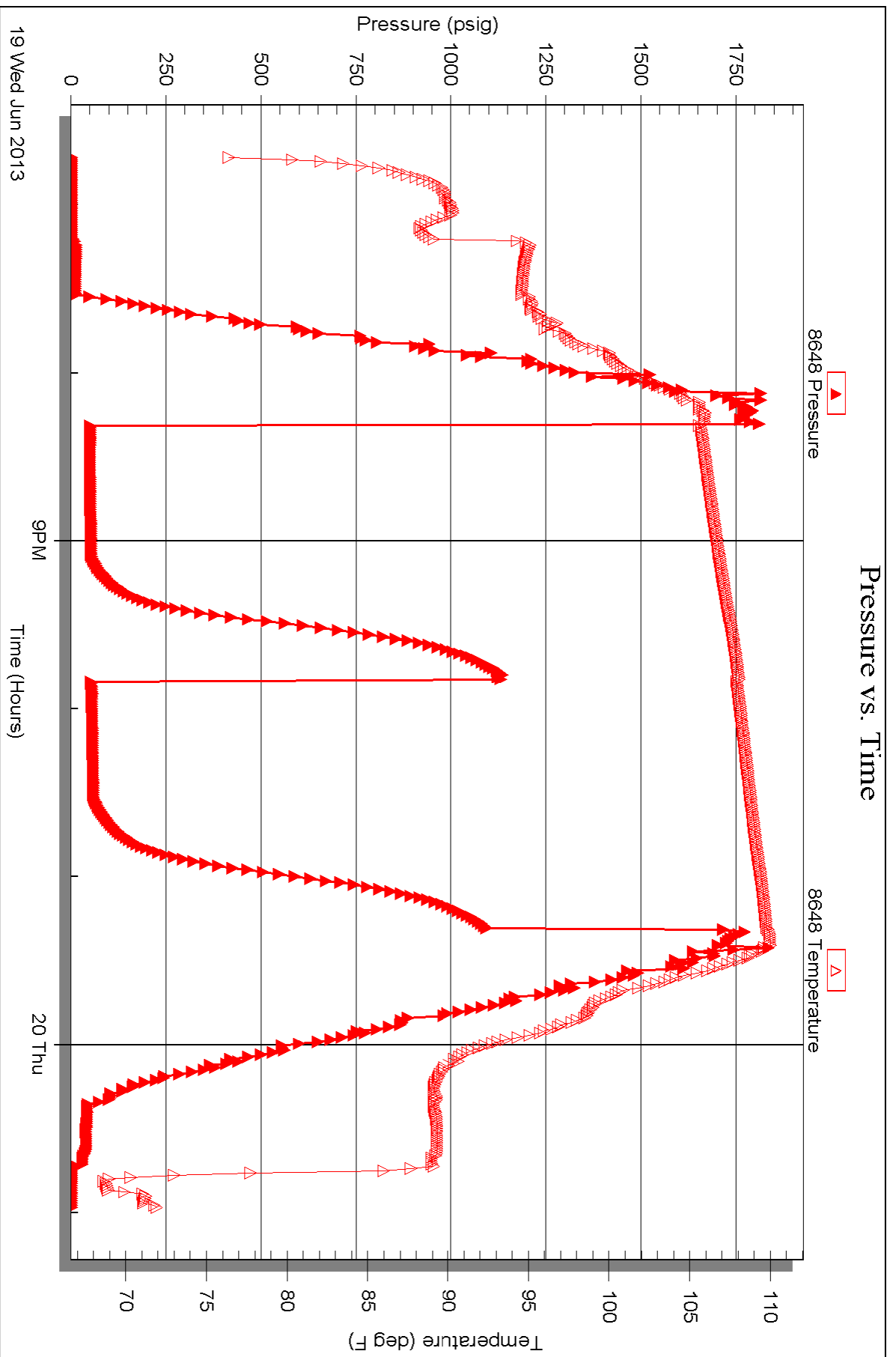
Laboratory Name:

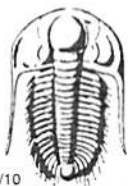
Laboratory Location:

Recovery Comments:

### Pressure vs. Time







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53915

Well Name & No. George #1 Test No. 1 Date 6-18-13  
 Company TDI LLC Elevation 2203 KB 2195 GL  
 Address 1310 Bison Rd, Hays KS, 67601  
 Co. Rep / Geo. Herb Rig Southwind #1  
 Location: Sec. 18 Twp. 12s Rge. 18w Co. Ellis State KS

Interval Tested 3460 - 3594 Zone Tested Tor A-F  
 Anchor Length 134' Drill Pipe Run 3474' Mud Wt. 8.9  
 Top Packer Depth 3455 Drill Collars Run - Vis 52  
 Bottom Packer Depth 3460 Wt. Pipe Run - WL 6.4  
 Total Depth 3594 Chlorides 1,800 ppm System LCM -

Blow Description IF - 7" blow  
ISI - No return  
FF - 1/4" blow  
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>107</u>	<u>Mud - with show of oil</u>			<u>100</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 107' BHT 107° Gravity - API RW - @ - °F Chlorides - ppm

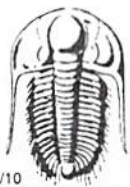
(A) Initial Hydrostatic <u>1659</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>8:00 pm</u>
(B) First Initial Flow <u>20</u>	<input type="checkbox"/> Jars	T-Started <u>11:00 pm</u>
(C) First Final Flow <u>45</u>	<input type="checkbox"/> Safety Joint	T-Open <u>1:27 am</u>
(D) Initial Shut-In <u>840</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>4:27 am</u>
(E) Second Initial Flow <u>46</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>6:26 am</u>
(F) Second Final Flow <u>63</u>	<input checked="" type="checkbox"/> Mileage <u>27 RT</u> 41.85	Comments
(G) Final Shut-In <u>752</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1616</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 45  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 45

Sub Total 1191.85

Approved By \_\_\_\_\_ Our Representative Cody Bloch 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. 53916

Well Name & No. George #1 Test No. 2 Date 6-19-13  
 Company TDI Inc Elevation 2203 KB 2195 GL  
 Address 1310 Bison rd, Hays KS, 67601  
 Co. Rep / Geo. Herb Rig Southwind #1  
 Location: Sec. 18 Twp. 12s Rge. 18w Co. Ellis State KS

Interval Tested 3618-3700 Zone Tested "H, I, J"  
 Anchor Length 82' Drill Pipe Run 3629' Mud Wt. 9.1  
 Top Packer Depth 3613 Drill Collars Run - Vis 47  
 Bottom Packer Depth 3618 Wt. Pipe Run - WL 6.8  
 Total Depth 3700 Chlorides 2,400 ppm System LCM -  
 Blow Description IF- 5.5" blow  
ISI- No return  
FF- 7" blow  
FSI- No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>GMCO</u>	<u>5</u>	<u>55</u>	<u>40</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>30' G.I.P.</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 35' BHT 108° Gravity - API RW - @ -° F Chlorides - ppm

(A) Initial Hydrostatic <u>1797</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>6:09 pm</u>
(B) First Initial Flow <u>35</u>	<input type="checkbox"/> Jars	T-Started <u>6:43 pm</u>
(C) First Final Flow <u>41</u>	<input type="checkbox"/> Safety Joint	T-Open <u>8:19 pm</u>
(D) Initial Shut-In <u>1117</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>11:19 pm</u>
(E) Second Initial Flow <u>39</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>12:59 am</u>
(F) Second Final Flow <u>46</u>	<input checked="" type="checkbox"/> Mileage <u>27 RT x2</u> <sup>83.70</sup>	Comments <u>Loaded tools 6-20-13 @</u>
(G) Final Shut-In <u>1081</u>	<input type="checkbox"/> Sampler	<u>8:30 pm</u>
(H) Final Hydrostatic <u>1770</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1233.70</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1233.70</u>	

Approved By \_\_\_\_\_ Our Representative Cody Bloodorn

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.

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

July 03, 2013

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

Re: ACO1  
API 15-051-26528-00-00  
George 1  
NW/4 Sec.18-12S-18W  
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