



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1220489  
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: \_\_\_\_\_

1220489

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> <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: BEVERLY # 1  
 Location: NE SE SW NE, Sec.2-17s-19w  
 API: 15-165-22,074-00-00  
 Pool: WILDCAT  
 State: KANSAS

Field: UNNAMED  
 Country: USA



Scale 1:240 Imperial

Well Name: BEVERLY # 1  
 Surface Location: NE SE SW NE, Sec.2-17s-19w  
 Bottom Location:  
 API: 15-165-22,074-00-00  
 License Number: 4787  
 Spud Date: 7/23/2014 Time: 2:30 PM  
 Region: RUSH COUNTY  
 Drilling Completed: 7/29/2014 Time: 10:50 AM  
 Surface Coordinates: 2075' FNL & 1560' FEL  
 Bottom Hole Coordinates:  
 Ground Elevation: 2085.00ft  
 K.B. Elevation: 2095.00ft  
 Logged Interval: 3000.00ft To: 3855.00ft  
 Total Depth: 3855.00ft  
 Formation: REAGAN SAND  
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: -99.3886552  
 Latitude: 38.6060949  
 N/S Co-ord: 2075' FNL  
 E/W Co-ord: 1560' FEL

**LOGGED BY**

Company: SOLUTIONS CONSULTING, INC.  
 Address: 108 WEST 35TH STREET  
 HAYS, KANSAS 67601

Phone Nbr: 785-625-3380  
 Logged By: GEOLOGIST Name: HERB DEINES

**CONTRACTOR**

Contractor: SOUTHWIND DRILLING, INC.  
 Rig #: 1  
 Rig Type: MUD ROTARY  
 Spud Date: 7/23/2014 Time: 2:30 PM  
 TD Date: 7/29/2014 Time: 10:50 AM

**ELEVATIONS**

K.B. Elevation: 2095.00ft  
K.B. to Ground: 10.00ft

Ground Elevation: 2085.00ft

**NOTES**

RECOMMENDATION TO PLUG AND ABANDON WELL BASED ON LOG ANALYSIS AND NEGATIVE RESULTS OF TWO DSTS

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

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

**FORMATION TOPS COMPARISON**

	<b>BEVERLY # 1</b>	<b>HERMAN #1</b>	<b>EVANS # 1</b>
	<b>NE SE SW NE</b>	<b>SE SE SW</b>	<b>SW SW SW</b>
	<b>SEC. 2-17S-19W</b>	<b>SEC. 35-16-19W</b>	<b>SEC. 35-16-19W</b>
	<b>2085'GL 2095'KB</b>	<b>KB 2084'</b>	<b>KB 2079'</b>
<u>FORMATION</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>
Anhydrite	1280 +815	+ 819	+799
B-Anhydrite	1311 +784	+ 781	+769
Topeka	3103-1008	-1011	-1010
Heebner Sh.	3386-1291	-1298	-1291
Toronto	3406-1311	-1318	-1309
LKC	3433-1338	-1344	-1336
BKC	3686-1591	-1586	-1591
Marmaton	3708-1613	-1618	-1619
Pawnee	3736-1641	-1649	-1647
Conglomerate	3775-1680	-1678	-1677
Arbuckle	NONE	NONE	NONE
Reagan Sand	3791-1696	-1701	-1693
RTD	3855-1760	-1724	-1736

**SUMMARY OF DAILY ACTIVITY**

7-23-14 RU, spud 2:30 PM, set 8 5/8" surface casing to 223.33' w/ 150 sxs  
Common 2%Gel 3%CC, slope 3/4 degree, plug down 8:45 PM

7-24-14 320', drill plug 4:45 AM

7-25-14 1680', drilling


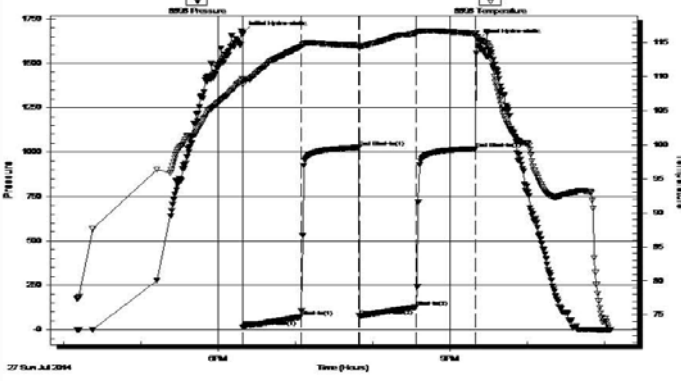
7-26-14 2715', drilling, displaced 2814' to 2840'

7-27-14 3400', CFS 3410', short trip-25 stands, CFS 3476', DST #1 3446'-3476'


7-28-14 3595' drilling, CFS 3800' CCH TOWR, DST #2 3761' to 3800'

7-28-14 3595', unring, CFS 3800', CCH, TOWB, DST # 2 5761 to 5800  
 7-29-14 3805', CFS 3805', CFS 3815', RTD 3855' @ 10:50AM, TOWB, logs, P&A  
 7-30-14 3855', finish LDDP and plugging, last plug down 1:00AM, RD

DST # 1 TEST SUMMARY

	DRILL STEM TEST REPORT																																					
TDI 1310 Bison Rd Hays, Ks 67601  ATTN: Herb Deines	<b>2-17-19- Rush Co.</b>  <b>Beverly #1</b> Job Ticket: 58920 <b>DST#: 1</b> Test Start: 2014.07.27 @ 16:10:29																																					
<b>GENERAL INFORMATION:</b> Formation: <b>LKC "C"</b> Deviated:        No    Whipstock:                ft (KB) Time Tool Opened: 18:19:29 Time Test Ended: 23:04:49  <b>Interval: 3446.00 ft (KB) To 3476.00 ft (KB) (TVD)</b> Total Depth:      3476.00 ft (KB) (TVD) Hole Diameter:    7.88 inches    Hole Condition: Good  Reference Elevations:      2095.00 ft (KB) 2083.00 ft (CF) KB to GR/CF:               12.00 ft																																						
<b>Serial #: 8898      Outside</b> Press@RunDepth:    127.48 psig @    3448.00 ft (KB)      Capacity:                          8000.00 psig Start Date:            2014.07.27            End Date:                      2014.07.27            Last Calib.:                      2014.07.27 Start Time:            16:10:30                End Time:                      23:04:49                Time On Btm:      2014.07.27 @ 18:19:19 Time Off Btm:        2014.07.27 @ 21:21:19																																						
<b>TEST COMMENT:</b> Strong blow built to 10 in. Dead no blow back Strong blow built to 8 1/2 in. Dead no blow back																																						
<b>Pressure vs. Time</b>		<b>PRESSURE SUMMARY</b>																																				
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Time (Min.)</th> <th style="width: 15%;">Pressure (psig)</th> <th style="width: 15%;">Temp (deg F)</th> <th style="width: 60%;">Annotation</th> </tr> </thead> <tbody> <tr><td>0</td><td>1672.84</td><td>109.68</td><td>Initial Hydro-static</td></tr> <tr><td>1</td><td>15.67</td><td>108.88</td><td>Open To Flow (1)</td></tr> <tr><td>45</td><td>72.73</td><td>114.36</td><td>Shut-In(1)</td></tr> <tr><td>90</td><td>1026.23</td><td>114.57</td><td>End Shut-In(1)</td></tr> <tr><td>91</td><td>77.63</td><td>114.07</td><td>Open To Flow (2)</td></tr> <tr><td>135</td><td>127.48</td><td>116.36</td><td>Shut-In(2)</td></tr> <tr><td>181</td><td>1020.57</td><td>116.31</td><td>End Shut-In(2)</td></tr> <tr><td>183</td><td>1632.66</td><td>115.79</td><td>Final Hydro-static</td></tr> </tbody> </table>	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	1672.84	109.68	Initial Hydro-static	1	15.67	108.88	Open To Flow (1)	45	72.73	114.36	Shut-In(1)	90	1026.23	114.57	End Shut-In(1)	91	77.63	114.07	Open To Flow (2)	135	127.48	116.36	Shut-In(2)	181	1020.57	116.31	End Shut-In(2)	183	1632.66	115.79	Final Hydro-static
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## DST # 2 TEST SUMMARY

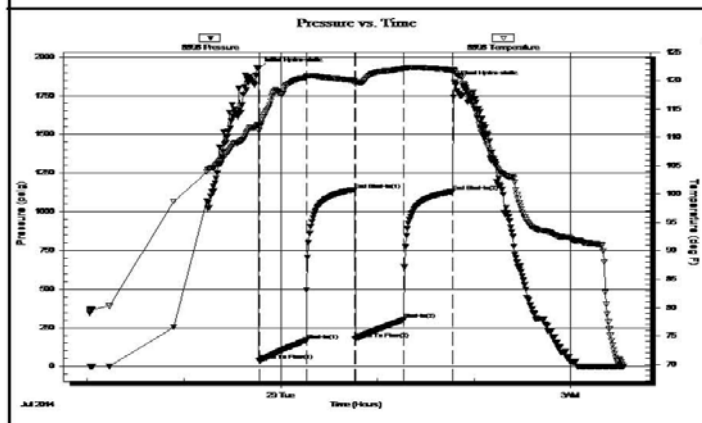
 <p style="font-size: 24pt; font-weight: bold; margin: 0;">TRILOBITE TESTING, INC.</p>	<h3 style="margin: 0;">DRILL STEM TEST REPORT</h3> <p style="margin: 5px 0 0 20px;">TDI 1310 Bison Rd Hays, Ks 67601 ATTN: Herb Deines</p> <p style="margin: 5px 0 0 20px;"><b>2-17-19- Rush Co.</b> <b>Beverly #1</b> Job Ticket: 58921      <b>DST#: 2</b> Test Start: 2014.07.28 @ 22:01:39</p>
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**GENERAL INFORMATION:**

Formation: <b>Cong. Sand</b> Deviated: No Whipstock      ft (KB) Time Tool Opened: 23:46:29 Time Test Ended: 03:32:39	Test Type: Conventional Bottom Hole (Reset) Tester: Tate Lang Unit No: 77
Interval: <b>3761.00 ft (KB) To 3800.00 ft (KB) (TVD)</b> Total Depth: 3476.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Good	Reference Elevations: 2095.00 ft (KB) 2083.00 ft (CF) KB to GR/CF: 12.00 ft

<b>Serial #: 8898</b> <b>Outside</b> Press@RunDepth: 302.22 psig @ 3763.00 ft (KB) Start Date: 2014.07.28      End Date: 2014.07.29 Start Time: 22:01:40      End Time: 03:32:39	Capacity: 8000.00 psig Last Calib.: 2014.07.29 Time On Btm: 2014.07.28 @ 23:46:19 Time Off Btm: 2014.07.29 @ 01:47:49	
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**TEST COMMENT:** B.O.B. in 7 mins  
 Dead no blow back  
 B.O.B. in 8 mins  
 Dead no blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1925.36	112.27	Initial Hydro-static
1	36.40	111.21	Open To Flow (1)
30	169.54	120.59	Shut-In(1)
60	1142.70	120.00	End Shut-In(1)
60	178.43	119.33	Open To Flow (2)
90	302.22	122.13	Shut-In(2)
121	1129.77	121.82	End Shut-In(2)
122	1838.43	121.84	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbt)
120.00	WCM 30%W 70%M	1.68
500.00	SMCW 92%W 8%M	7.01

\* Recovery from multiple tests

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

Trilobite Testing, Inc

Ref. No: 58921

Printed: 2014.07.29 @ 04:45:48

Image Header 04

Image Header 05

### ROCK TYPES

 Cht vari	 Lmst fw7> shale, grn	 Carbon Sh shale, red	 Ss	 Lscongl	 Dol Lime
 Clystgy	 Lmst fw7> shale, grn	 Carbon Sh shale, red	 Lscongl	 Lscongl	 Dol Lime

Lmst fw<7

shale, gry

Shcol

CglSandy

### ACCESSORIES

#### MINERAL

- ▲ Chert, dark
- Varicolored chert

#### FOSSIL

- Oolite
- ⊕ Oomoldic

### OTHER SYMBOLS

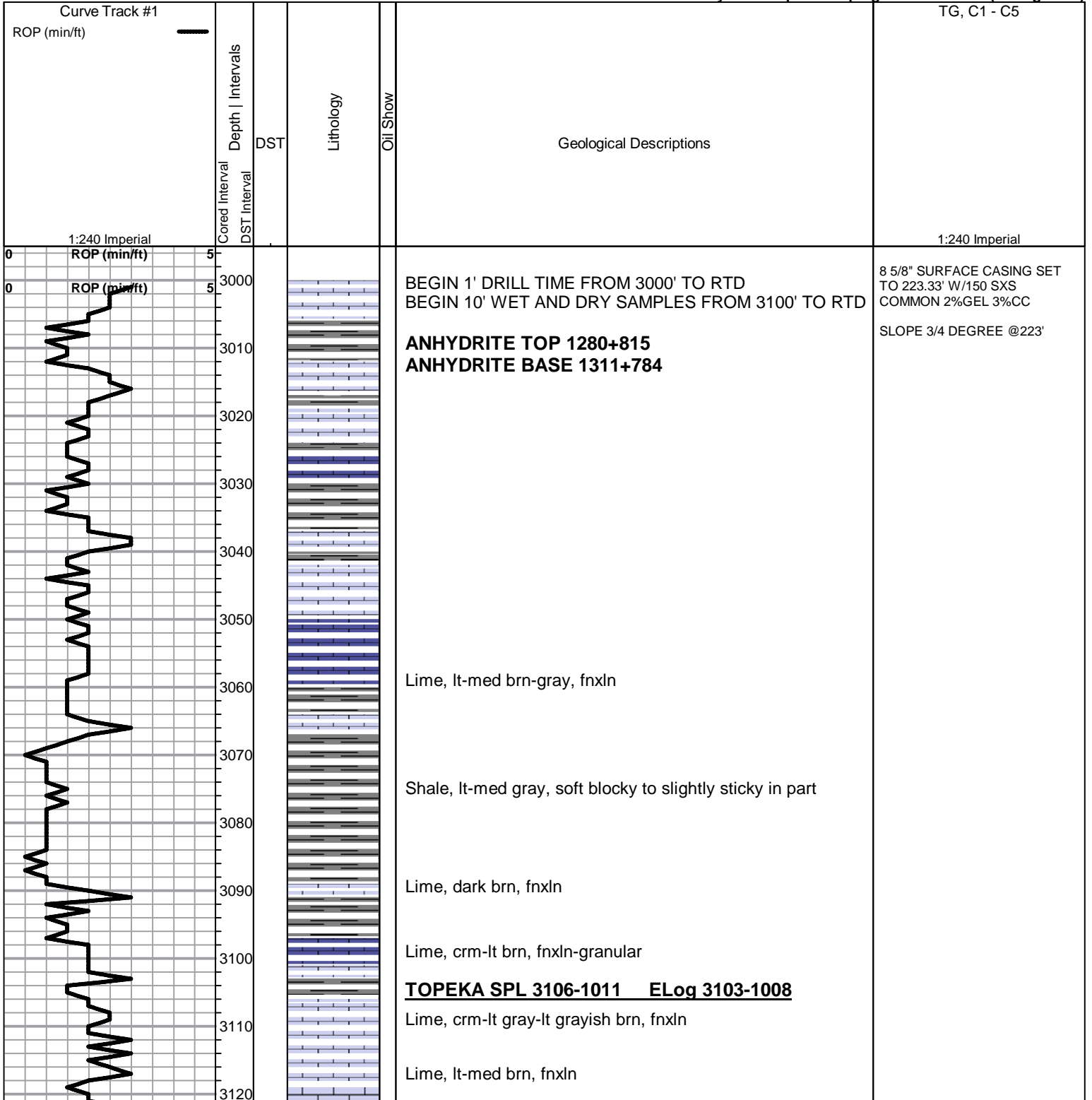
#### Oil Show

- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Strn
- Dead Oil Strn
- Fluorescence
- \* Gas

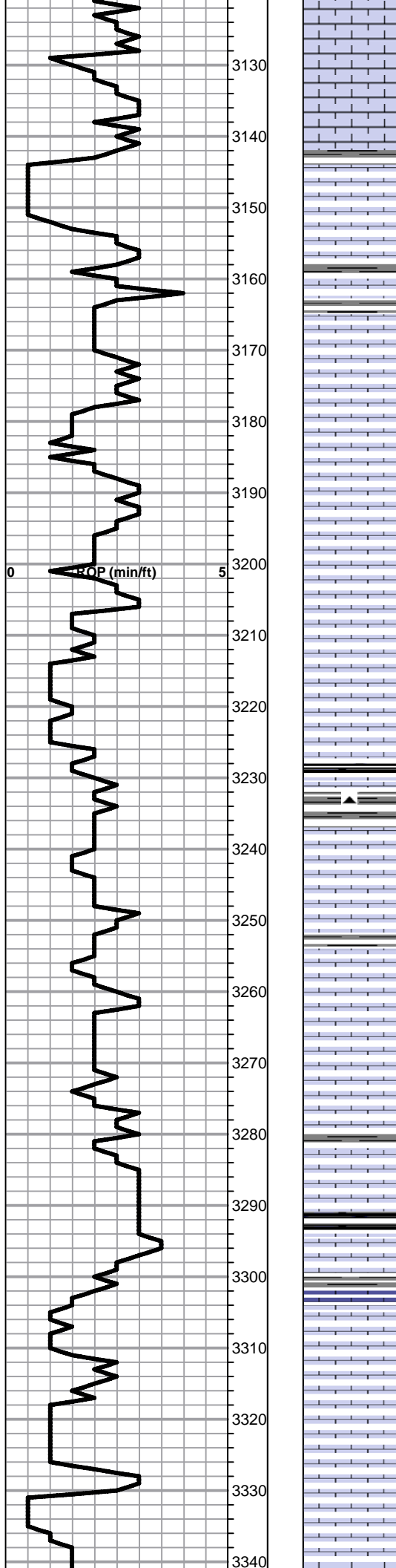
#### DST

- DST Int
- DST alt
- Core
- tail pipe

Printed by GEOstrip VC Striplog version 4.0.8.9 (www.grsi.ca)







Lime, offwhite-lt-med gray, fnxln

3130

Lime, off white-lt gray, fnxln, slight bedded chalk

3140

Lime, lt brn, granular, NS

3150

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

3160

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

3170

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

3180

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

3190

Lime, lt brn, fnxln-granular, bedded chalk with sticky clumps in part

ROP (min/ft)

3200

Lime, lt brn, fnxln-granular, chalky matrix with bedded chalk with sticky clumps, slightly fossiliferous

3210

Lime, lt brn, granular with increasing bedded chalk with lt chalk wash

3220

Lime, lt-med brn, granular, bedded chalk

3230

Shale, black carbonaceous, blocky

3240

Shale, lt gray, soft blocky, calcareous with fossil fragments

3250

Lime, crm, fn-vfxln, lithographic, slight bedded chalk

3260

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

3270

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

3280

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

3290

Lime, lt-med brn, fnxln

3300

Shale, black carbonaceous, blocky

Lime, crm-lt brn, fnxln

3310

Lime, lt-med brn, fnxln-granular, slightly fossiliferous, lt chalk wash

Lime, med brn, fnxln, slightly fossiliferous but well cemented

3320

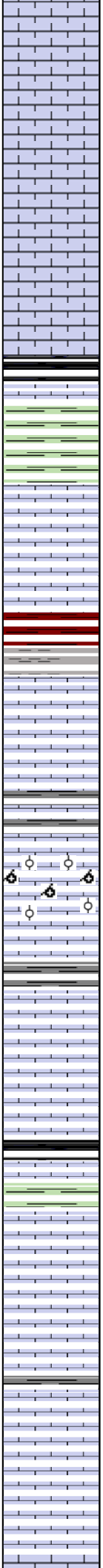
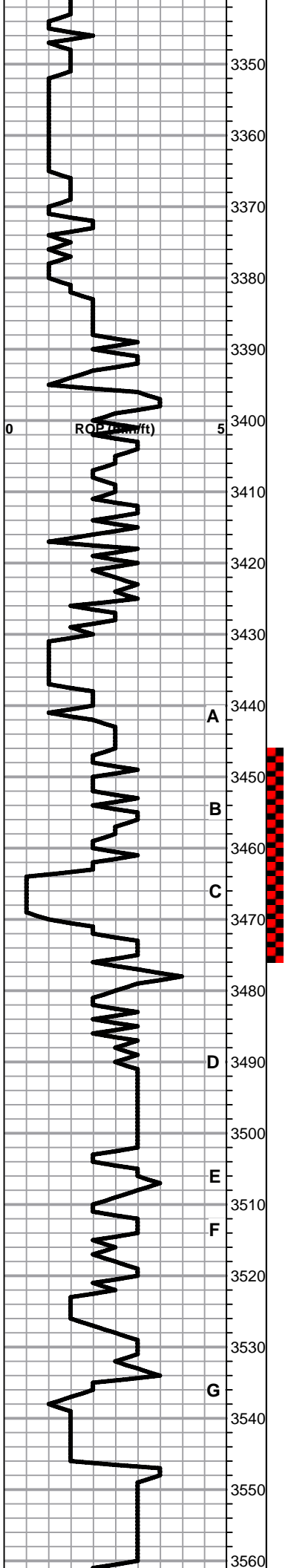
Lime, lt-med brn, fnxln-granular, slightly fossiliferous, slight bedded chalk

3330

Lime, crm-lt brn, fine oolitic/oomoldic, NS, No Wet Cut

3340

Lime, lt-med brn, granular-fnxln, bedded chalk with sticky



Lime, lt-med brn, granular, fnxn, bedded chalk with sticky clumps

3350  
3360  
3370  
3380  
3390  
**HEEBNER SHALE SPL 3391-1296 ELog 3386-1291**  
Shale, black carbonaceous, fissile, blocky  
Lime, lt brn, fn-vfxln

3400  
3410  
**TORONTO SPL 3408-1313 ELog 3406-1311**  
Lime, white-crm, fn-vfxln, NS

3420  
3430  
Shale, reddish brn-red, soft blocky with lt red wash  
**LKC SPL 3436-1341 ELog 3433-1338**  
Lime, lt brn, fnxln

3440  
3450  
3460  
3470  
3480  
3490  
3500  
3510  
3520  
3530  
3540  
3550  
3560

Lime, lt-med brn, granular, bedded chalk with sticky clumps in part

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

Shale, lime green, mostly soft mud

Lime, white-crm, fn-vfxln, NS

Lime, lt-med brn, fn-vfxln

Lime, lt-med brn-grayish brn, fn-vfxln, gray mottling in part

Lime, lt brn, fnxln-oolitic/oomoldic, NS, tested to confirm in DST # 1

Lime, lt brn, fnxln

Lime, crm, fnxln with lot of bedded chalk. NS

Lime, tan, fn-vfxln, NS

Shale, black carbonaceous, blocky  
Lime, offwhite-lt gray, micro xln

Lime, tan, fnxln, slight bedded chalk, NS

Lime, tan-lt brn, fn-vfxln, slight bedded chalk, NS

Lime, tan, fnxln, lot of bedded chalk, NS

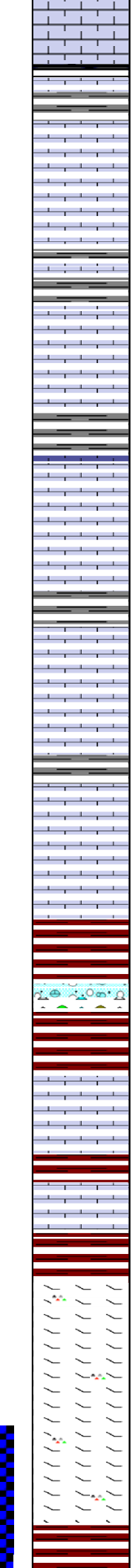
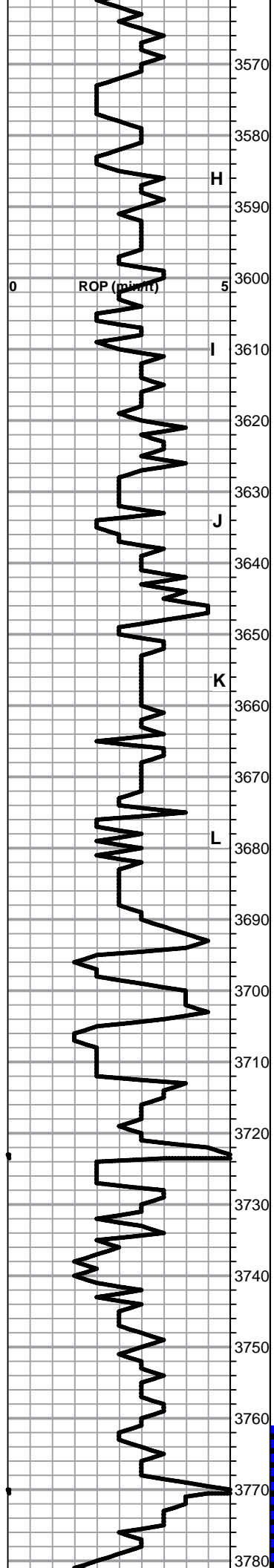
Lime, tan, fnxln, bedded chalk, NS

Lime, tan, fnxln, bedded chalk

CFS 3410', SHORT TRIP  
PULLED 25 STANDS

DST # 1 3446' TO 3476' SEE  
HEADER FOR TEST SUMMARY

CFS 3476'



Shale, med gray-black carbonaceous, soft, blocky  
Lime, tan-lt brn, fn-micro xln

Lime, lt-med brn, fnxln, scattered oolitic and fossil fragments but well cemented, NS

Lime, lt brn, fn-micro xln, slight bedded chalk

Lime, lt-med brn, fn-vfxln  
Shale, med-dark gray, firm blocky

Lime, crm-tan, fn-vfxln, bedded chalk, sub lithographic, NS

Lime, tan-lt brn, fnxln

Lime, crm-tan, fn-vfxln, slight bedded chalk, NS

Lime, crm-lt brn, fn-micro xln

Shale, dark gray-black, firm blocky

Lime, lt brn, fn-micro xln, slight bedded chalk, NS

Lime, tan-med brn, fnxln

Shale, gray-black, firm blocky

Lime, tan-lt brn, fn-micro xln, slight bedded chalk

Lime, tan-med brn, fn-micro xln

**BKC SPL 3690-1595 ELog 3686-1591**

Shale, dark brn-reddish brn, firm blocky with cherty conglomerate mix in part

Shale, reddish brn, soft, blocky, lt red wash

**MARMATON SPL 3712-1617 ELog 3708-1613**

Lime, crm-tan, fnxln

Shale, brn, red, firm blocky

Lime, crm-lt brn, fnxln

Shale, grays, reds, brns, soft-firm blocky

**PAWNEE SPL 3741-1646 ELog 3736-1641**

Lime, grayish green tinted, fnxln, fragments of orange chert

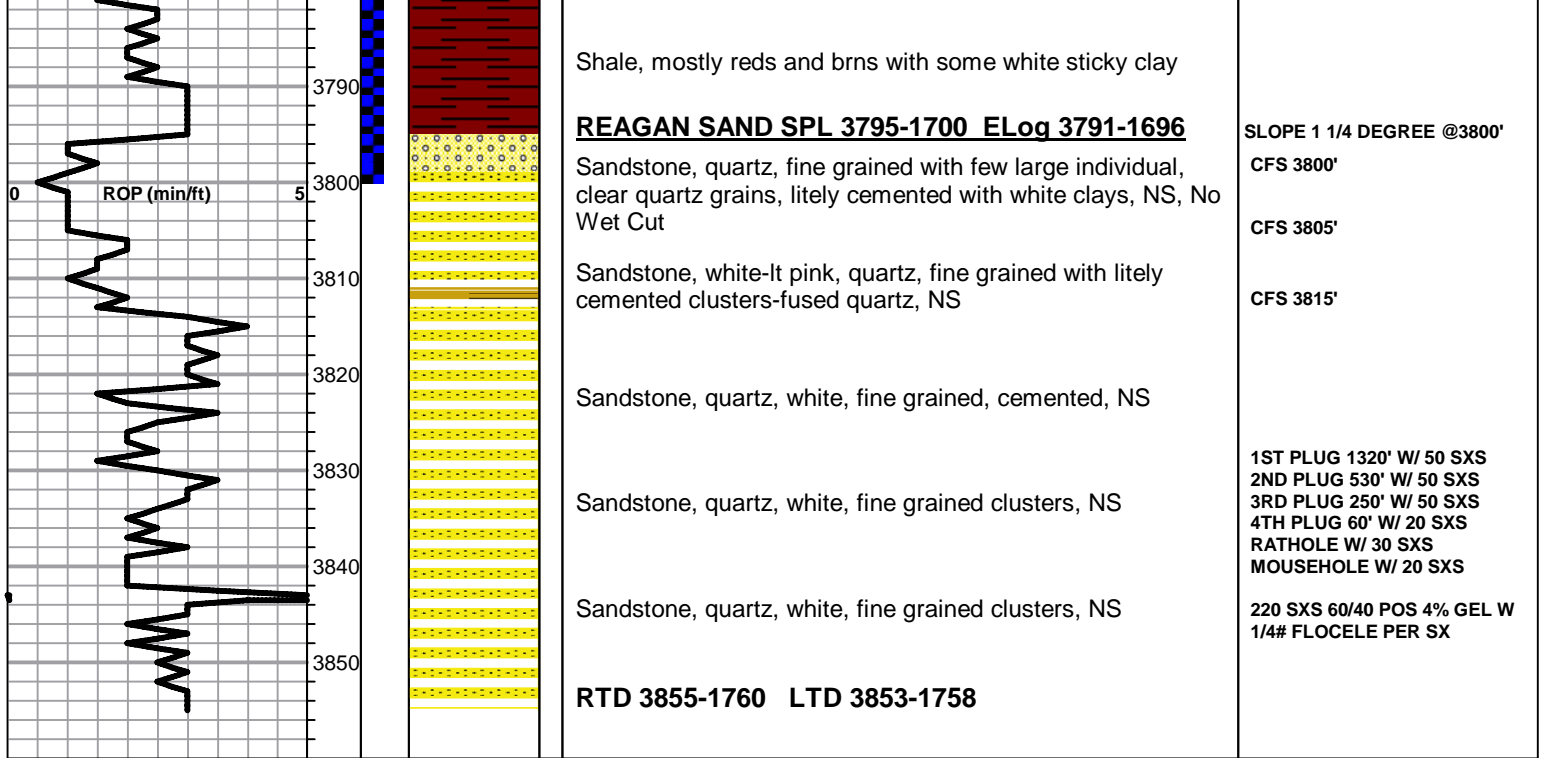
Lime, crm-tan, fn-vfxln, increasing chert content, tans, orange, fresh, sharp, slightly dolomitic

Lime, crm-tan, fn-vfxln, cherts, tan, orange, fresh, sharp

Lime, tan-lt brn, fn-micro xln

**CONGLOMERATE SPL 3775-1680 ELog 3775-1680**

Shale, brn-dark brn, soft blocky



# GLOBAL CEMENTING, L.L.C.

1395

REMIT TO 18048 170RD  
RUSSELL, KS 67665

SERVICE POINT: Russell KS

DATE <u>7-23-14</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Beverly</u>	WELL #. <u>1</u>		LOCATION			COUNTY <u>Rush CO</u>	STATE <u>KS</u>
OLD OR NEW (CIRCLE ONE)							

CONTRACTOR Southwind Drilling #1

TYPE OF JOB Surface

HOLE SIZE 12 3/4 T.D. 223 ft

CASING SIZE 8 3/8 DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS

DISPLACEMENT

OWNER

CEMENT AMOUNT ORDERED 150 sks 3 1/2" - 2% gel

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

EQUIPMENT

PUMP TRUCK CEMENTER Cody

# P1 HELPER Brad

BULK TRUCK DRIVER ERIC

# B4 DRIVER

# DRIVER

REMARKS:

Run 5 joints 8 3/8 casing

Hooked up for circulation pumped 150 sks

circulate cement displaced 12.34 bbls H2O

Shut in at 200 lbs

CHARGE TO: IDI Inc

STREET

CITY STATE ZIP 12.3

Global Cementing, L.L.C.,  
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 Earl M Beans

SIGNATURE Jay Beans

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE 14.2 @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

@

@

@

@

TOTAL

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS



# GLOBAL CEMENTING, L.L.C.

1397

REMIT TO 18048 170RD  
RUSSELL, KS 67665

SERVICE POINT: Russell KS

DATE <u>7-30-14</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Beverly</u>	WELL #. <u>1</u>	LOCATION			COUNTY <u>Rush</u>	STATE <u>KS</u>	
OLD OR NEW (CIRCLE ONE)							

CONTRACTOR Southwind Drilling #1  
 TYPE OF JOB plug  
 HOLE SIZE 7/8 T.D. 3855  
 CASING SIZE DEPTH  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG.  
 PERFS  
 DISPLACEMENT

OWNER

CEMENT AMOUNT ORDERED 220sk 60% 1oz 1/8 gel  
1/2 1oz  
 COMMON @  
 POZMIX @  
 GEL @  
 CHLORIDE @  
 ASC @

EQUIPMENT  
 PUMP TRUCK CEMENTER Cody  
 # 01 HELPER Brad  
 BULK TRUCK  
 # B3 DRIVER Erick / Barton  
 BULK TRUCK  
 # DRIVER

HANDLING @  
 MILEAGE @  
 TOTAL

REMARKS:

1 plug 1320 50sk  
2 plug 530 50sk  
3 plug 250- 50sk  
reline 60ft. 20sk MS 20sk  
R 30sk

SERVICE

DEPTH OF JOB  
 PUMP TRUCK CHARGE  
 EXTRA FOOTAGE @  
 MILEAGE 14x2 @  
 MANIFOLD @  
 @  
 @

CHARGE TO: TDI INC  
 STREET  
 CITY STATE ZIP

TOTAL

PLUG & FLOAT EQUIPMENT

@  
 @  
 @  
 @  
 @

TOTAL

Global Cementing, L.L.C.,  
 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 LARRY BEEMER  
 SIGNATURE Larry Beemer

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



## DRILL STEM TEST REPORT

Prepared For: **TDI**

1310 Bison Rd  
Hays, KS 67601

ATTN: Herb Deines

### **Beverly #1**

#### **2-17s-19w Rush,KS**

Start Date: 2014.07.27 @ 16:10:29

End Date: 2014.07.27 @ 23:04:49

Job Ticket #: 58920                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.30 @ 14:35:23

TDI  
2-17s-19w Rush,KS  
Beverly #1  
DST # 1  
LKC "C"  
2014.07.27



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

TDI  
1310 Bison Rd  
Hays, KS 67601  
ATTN: Herb Deines

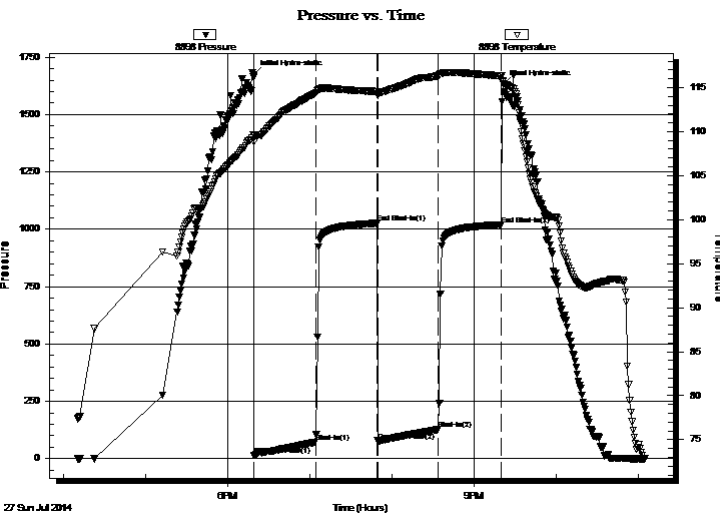
**2-17s-19w Rush,KS**  
**Beverly #1**  
Job Ticket: 58920 **DST#: 1**  
Test Start: 2014.07.27 @ 16:10:29

## GENERAL INFORMATION:

Formation: **LKC "C"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 18:19:29  
Time Test Ended: 23:04:49  
Interval: **3446.00 ft (KB) To 3476.00 ft (KB) (TVD)**  
Total Depth: 3476.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Tate Lang  
Unit No: 77  
Reference Elevations: 2095.00 ft (KB)  
2083.00 ft (CF)  
KB to GR/CF: 12.00 ft

**Serial #: 8898 Outside**  
Press@RunDepth: 127.48 psig @ 3448.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.07.27 End Date: 2014.07.27 Last Calib.: 2014.07.27  
Start Time: 16:10:30 End Time: 23:04:49 Time On Btm: 2014.07.27 @ 18:19:19  
Time Off Btm: 2014.07.27 @ 21:21:19

**TEST COMMENT:** Strong blow built to 10 in.  
Dead no blow back  
Strong blow built to 8 1/2 in.  
Dead no blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1672.84	109.68	Initial Hydro-static
1	15.67	108.88	Open To Flow (1)
45	72.73	114.36	Shut-In(1)
90	1026.23	114.57	End Shut-In(1)
91	77.63	114.07	Open To Flow (2)
135	127.48	116.36	Shut-In(2)
181	1020.57	116.31	End Shut-In(2)
183	1632.66	115.79	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
248.00	SMCW 5%M 95%W	3.48

## Gas Rates

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





# TRILOBITE TESTING, INC

## DRILL STEM TEST REPORT

TDI  
1310 Bison Rd  
Hays, KS 67601  
ATTN: Herb Deines

**2-17s-19w Rush,KS**  
**Beverly #1**  
Job Ticket: 58920 **DST#: 1**  
Test Start: 2014.07.27 @ 16:10:29

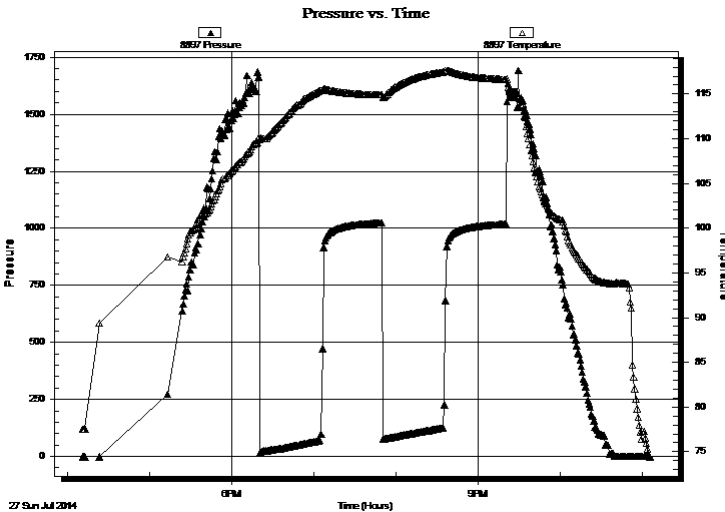
### GENERAL INFORMATION:

Formation: **LKC "C"**  
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 18:19:29 Tester: Tate Lang  
 Time Test Ended: 23:04:49 Unit No: 77  
**Interval: 3446.00 ft (KB) To 3476.00 ft (KB) (TVD)** Reference Elevations: 2095.00 ft (KB)  
 Total Depth: 3476.00 ft (KB) (TVD) 2083.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 12.00 ft

**Serial #: 8897 Inside**  
 Press@RunDepth: psig @ 3448.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.07.27 End Date: 2014.07.27 Last Calib.: 2014.07.27  
 Start Time: 16:10:45 End Time: 23:05:14 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** Strong blow built to 10 in.  
 Dead no blow back  
 Strong blow built to 8 1/2 in.  
 Dead no blow back.

### PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
248.00	SMCW 5%M 95%W	3.48

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

TDI  
1310 Bison Rd  
Hays, KS 67601  
ATTN: Herb Deines

**2-17s-19w Rush,KS**  
**Beverly #1**  
Job Ticket: 58920      **DST#: 1**  
Test Start: 2014.07.27 @ 16:10:29

**Tool Information**

Drill Pipe:	Length: 3436.00 ft	Diameter: 3.80 inches	Volume: 48.20 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 48.20 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3446.00 ft			Final	43000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	50.00 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>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			3431.00	
Hydraulic tool	5.00			3436.00	
Packer	5.00			3441.00	20.00      Bottom Of Top Packer
Packer	5.00			3446.00	
Stubb	1.00			3447.00	
Perforations	1.00			3448.00	
Recorder	0.00	8897	Inside	3448.00	
Recorder	0.00	8898	Outside	3448.00	
Perforations	25.00			3473.00	
Bullnose	3.00			3476.00	30.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>50.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

TDI **2-17s-19w Rush,KS**  
 1310 Bison Rd **Beverly #1**  
 Hays, KS 67601 Job Ticket: 58920 **DST#: 1**  
 ATTN: Herb Deines Test Start: 2014.07.27 @ 16:10:29

### Mud and Cushion Information

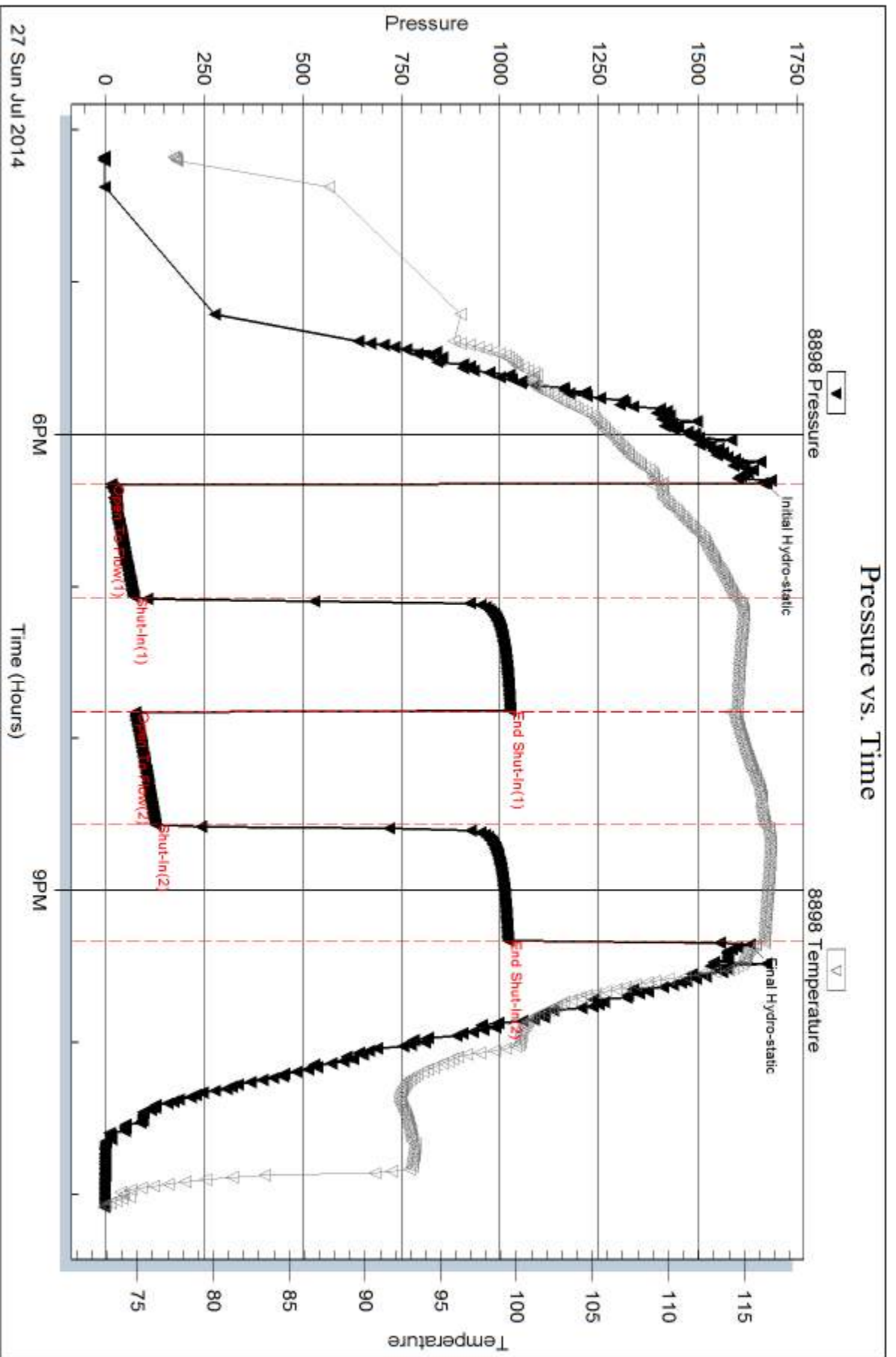
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 6.40 sec/qt	Cushion Volume: bbl		
Water Loss: 11.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7500.00 ppm			
Filter Cake: 1.00 inches			

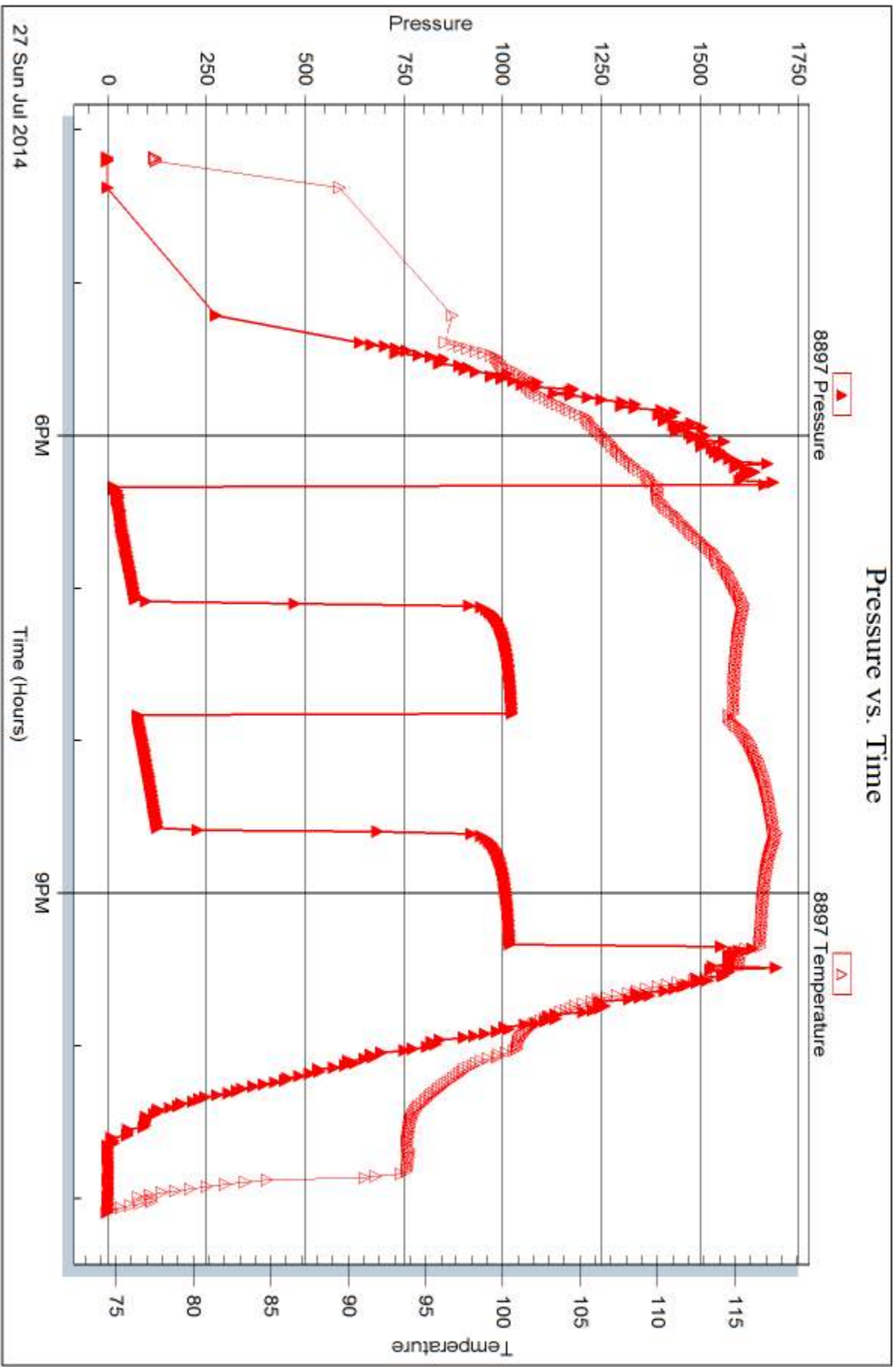
### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	SMCW 5%M 95%W	3.479

Total Length: 248.00 ft      Total Volume: 3.479 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:





27 Sun Jul 2014



## DRILL STEM TEST REPORT

Prepared For: **TDI**

1310 Bison Rd  
Hays, KS 67601

ATTN: Herb Deines

### **Beverly #1**

#### **2-17s-19w Rush,KS**

Start Date: 2014.07.28 @ 22:01:39

End Date: 2014.07.29 @ 03:32:39

Job Ticket #: 58921                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.07.30 @ 14:34:50

TDI  
2-17s-19w Rush,KS  
Beverly #1  
DST # 2  
Cong. Sand  
2014.07.28



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

TDI  
1310 Bison Rd  
Hays, KS 67601  
ATTN: Herb Deines

**2-17s-19w Rush, KS**  
**Beverly #1**  
Job Ticket: 58921      **DST#: 2**  
Test Start: 2014.07.28 @ 22:01:39

## GENERAL INFORMATION:

Formation: **Cong. Sand**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 23:46:29  
Time Test Ended: 03:32:39  
Interval: **3761.00 ft (KB) To 3800.00 ft (KB) (TVD)**  
Total Depth: 3476.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Reference Elevations: 2095.00 ft (KB)  
2083.00 ft (CF)  
KB to GR/CF: 12.00 ft

## Serial #: 8898

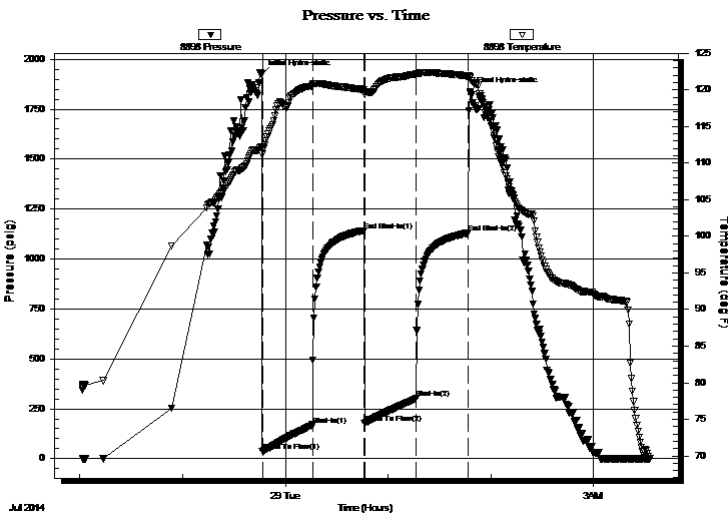
Outside

Press@RunDepth: 302.22 psig @ 3763.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.07.28      End Date: 2014.07.29      Last Calib.: 2014.07.29  
Start Time: 22:01:40      End Time: 03:32:39      Time On Btm: 2014.07.28 @ 23:46:19  
Time Off Btm: 2014.07.29 @ 01:47:49

TEST COMMENT: B.O.B. in 7 mins  
Dead no blow back  
B.O.B. in 8 mins  
Dead no blow back

## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1925.36	112.27	Initial Hydro-static
1	36.40	111.21	Open To Flow (1)
30	169.54	120.59	Shut-In(1)
60	1142.70	120.00	End Shut-In(1)
60	178.43	119.33	Open To Flow (2)
90	302.22	122.13	Shut-In(2)
121	1129.77	121.82	End Shut-In(2)
122	1838.43	121.84	Final Hydro-static



## Recovery

Length (ft)	Description	Volume (bbl)
120.00	WCM 30%W 70%M	1.68
500.00	SMCW 92%W 8%M	7.01

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

TDI  
1310 Bison Rd  
Hays, KS 67601  
ATTN: Herb Deines

**2-17s-19w Rush,KS**  
**Beverly #1**  
Job Ticket: 58921 **DST#: 2**  
Test Start: 2014.07.28 @ 22:01:39

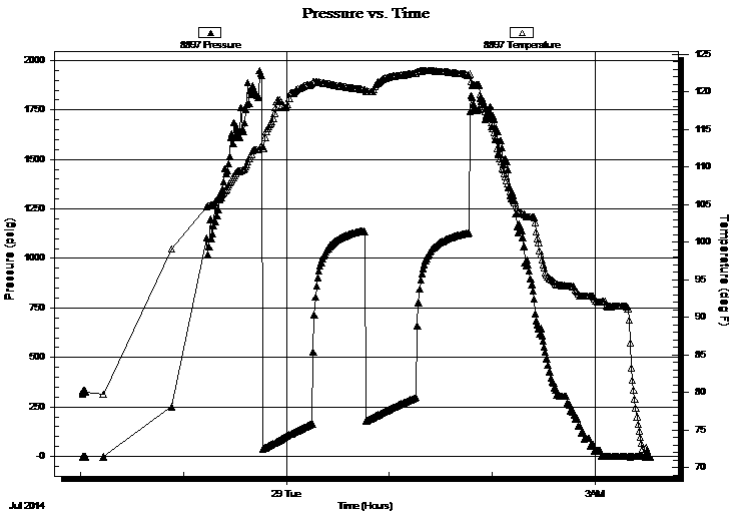
## GENERAL INFORMATION:

Formation: **Cong. Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:46:29  
 Time Test Ended: 03:32:39  
 Interval: **3761.00 ft (KB) To 3800.00 ft (KB) (TVD)**  
 Total Depth: 3476.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Tate Lang  
 Unit No: 77  
 Reference Elevations: 2095.00 ft (KB)  
 2083.00 ft (CF)  
 KB to GR/CF: 12.00 ft

**Serial #: 8897** **Inside**  
 Press@RunDepth: psig @ 3763.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.07.28 End Date: 2014.07.29 Last Calib.: 2014.07.29  
 Start Time: 22:01:19 End Time: 03:32:08 Time On Btm:  
 Time Off Btm:

TEST COMMENT: B.O.B. in 7 mins  
 Dead no blow back  
 B.O.B. in 8 mins  
 Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	WCM 30%W 70%M	1.68
500.00	SMCW 92%W 8%M	7.01

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

TDI  
1310 Bison Rd  
Hays, KS 67601  
ATTN: Herb Deines

**2-17s-19w Rush,KS**  
**Beverly #1**  
Job Ticket: 58921      **DST#: 2**  
Test Start: 2014.07.28 @ 22:01:39

**Tool Information**

Drill Pipe:	Length: 3750.00 ft	Diameter: 3.80 inches	Volume: 52.60 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 52.60 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3761.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	39.00 ft				
Tool Length:	59.00 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>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			3746.00	
Hydraulic tool	5.00			3751.00	
Packer	5.00			3756.00	20.00      Bottom Of Top Packer
Packer	5.00			3761.00	
Stubb	1.00			3762.00	
Perforations	1.00			3763.00	
Recorder	0.00	8897	Inside	3763.00	
Recorder	0.00	8898	Outside	3763.00	
Perforations	34.00			3797.00	
Bullnose	3.00			3800.00	39.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>59.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

TDI **2-17s-19w Rush,KS**  
 1310 Bison Rd **Beverly #1**  
 Hays, KS 67601 Job Ticket: 58921 **DST#: 2**  
 ATTN: Herb Deines Test Start: 2014.07.28 @ 22:01:39

## Mud and Cushion Information

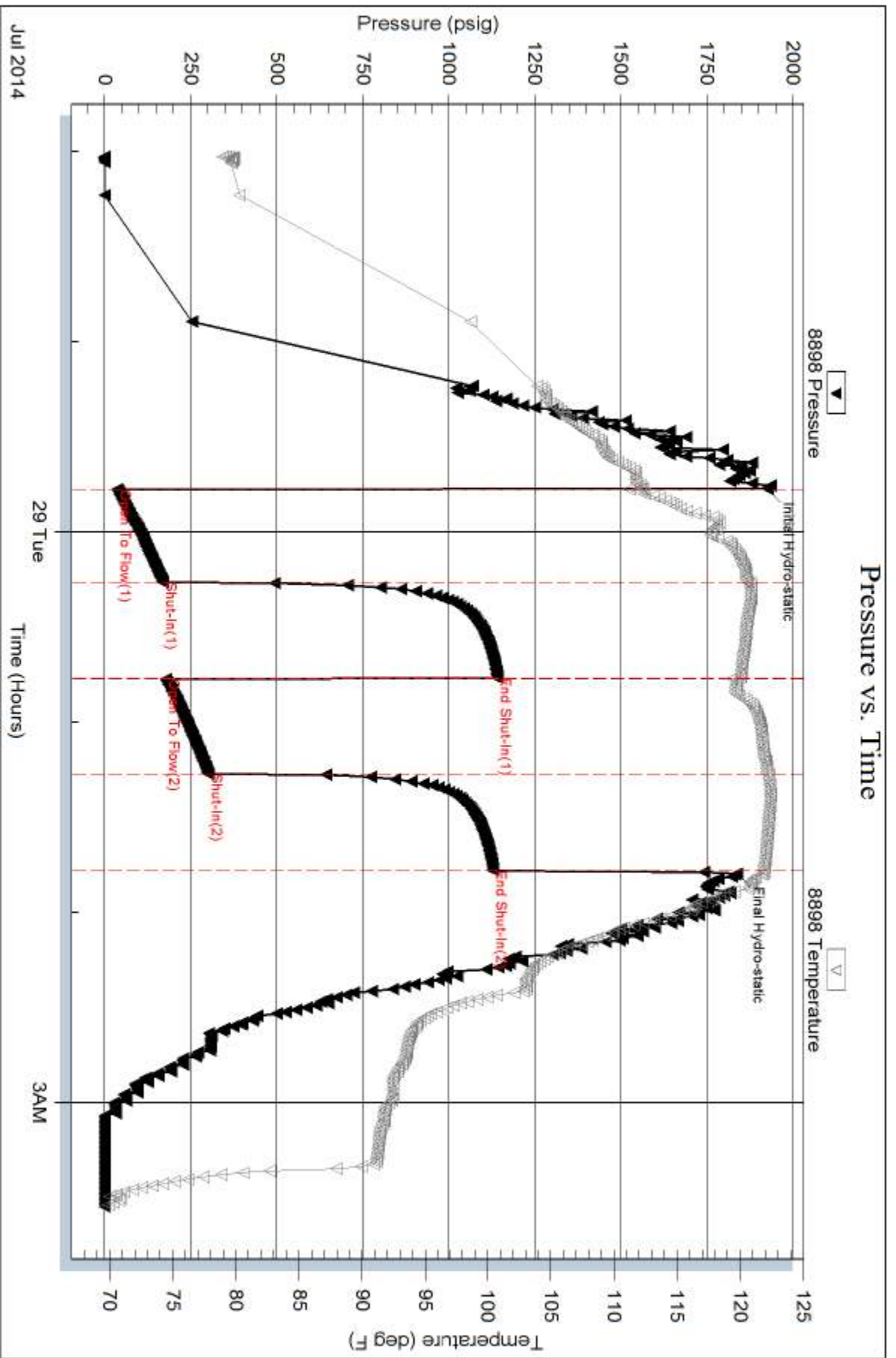
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 1.00 inches			

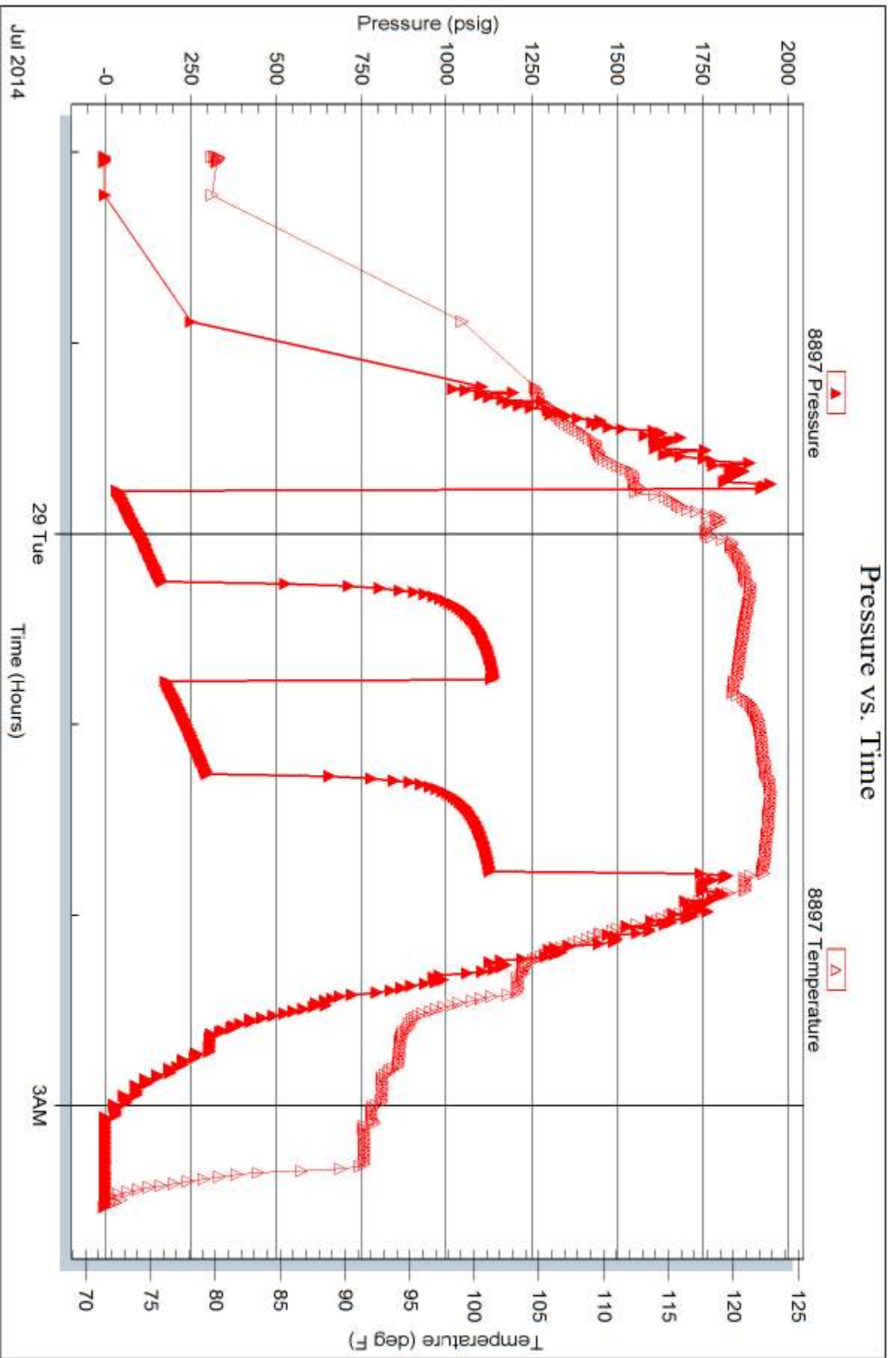
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	WCM 30%W 70%M	1.683
500.00	SMCW 92%W 8%M	7.014

Total Length: 620.00 ft      Total Volume: 8.697 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 58920

Well Name & No. Beverly #1 Test No. 1 Date 7-27-14  
 Company TDI Inc Elevation 2095 KB 2083 GL  
 Address 1310 Bison Rd. Hays KS 67601  
 Co. Rep / Geo. Herb Deines Rig Southwind #1  
 Location: Sec. 2 Twp. 17 Rge. 19 Co. Rush State KS

Interval Tested 3446 3476 Zone Tested LHC "C"  
 Anchor Length 30 Drill Pipe Run 3436 Mud Wt. 9.0  
 Top Packer Depth 3441 Drill Collars Run 0 Vis 6.4  
 Bottom Packer Depth 3446 Wt. Pipe Run 0 WL 12.0  
 Total Depth 3476 Chlorides 7500 ppm System LCM 1#

Blow Description Strong blow built to 10in  
Dead to blow back  
Strong blow built to 8 1/2 in  
Dead to blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>248</u>	Feet of <u>SMCW</u>	%gas	%oil	<u>95</u> %water	<u>5</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 248 BHT 116 Gravity \_\_\_\_\_ API-RW 231 @ 30 ° F Chlorides 26000 ppm

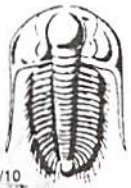
(A) Initial Hydrostatic 1673  Test 1150 T-On Location 1440  
 (B) First Initial Flow 16  Jars \_\_\_\_\_ T-Started 1610  
 (C) First Final Flow 72  Safety Joint \_\_\_\_\_ T-Open 1819  
 (D) Initial Shut-In 1026  Circ Sub \_\_\_\_\_ T-Pulled 2119  
 (E) Second Initial Flow 78  Hourly Standby \_\_\_\_\_ T-Out 2304  
 (F) Second Final Flow 127  Mileage 49RM 75.95 Comments \_\_\_\_\_  
 (G) Final Shut-In 1021  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1633  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 45  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 45  Day Standby \_\_\_\_\_ Total 1225.95  
 Final Shut-In 45  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1225.95

Approved By \_\_\_\_\_ Our Representative [Signature]

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. 58921

Well Name & No. Beverly #1 Test No. 2 Date 7-28-14  
 Company TDT INC Elevation 2095 KB 2083 GL  
 Address 1310 Bison Rd. Hays KS 67601  
 Co. Rep / Geo. Herb Deines Rig Southwind #1  
 Location: Sec. 2 Twp. 17 Rge. 19 Co. Rush State KS

Interval Tested 3761 3800 Zone Tested Conglomerate Sand  
 Anchor Length 39 Drill Pipe Run 3750 Mud Wt. 9.2  
 Top Packer Depth 3756 Drill Collars Run 0 Vis 54  
 Bottom Packer Depth 3761 Wt. Pipe Run 0 WL 10.4  
 Total Depth 3800 Chlorides 7000 ppm System LCM TR

Blow Description B.O.B. IN 7 mins  
Dead no blow back  
B.O.B. IN 8 mins  
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>120</u>	Feet of <u>wcm</u>			<u>30%</u>	<u>70</u>
Rec <u>500</u>	Feet of <u>smcw</u>			<u>92%</u>	<u>8</u>
Rec _____	Feet of _____				
Rec _____	Feet of _____				

Rec Total 620 BHT 121 Gravity \_\_\_\_\_ API RW 226 @ 60 °F Chlorides 37000 ppm  
 (A) Initial Hydrostatic 1925  Test 1150 T-On Location 2119  
 (B) First Initial Flow 36  Jars \_\_\_\_\_ T-Started 2201  
 (C) First Final Flow 170  Safety Joint \_\_\_\_\_ T-Open 2346  
 (D) Initial Shut-In 1143  Circ Sub \_\_\_\_\_ T-Pulled 0146  
 (E) Second Initial Flow 178  Hourly Standby \_\_\_\_\_ T-Out 0332  
 (F) Second Final Flow 302  Mileage X2 Local Comments \_\_\_\_\_  
 (G) Final Shut-In 1130  Sampler 151.90 7/29 17:15  
 (H) Final Hydrostatic 1838  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1301.90  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30  
 Sub Total 1301.90

Approved By \_\_\_\_\_ Our Representative [Signature]  
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