



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1209702
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1209702

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 <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
--	---

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	-------	---------	------------	---

Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	TDI, Inc.
Well Name	Viola 1
Doc ID	1209702

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3516'-3522'	250 gals., 15%	
4	3474'-3480'	250 gals., 15%	
4	3450'-3453'	250 gals., 15%	
4	3427'-3429'		
4	3320'-3324'	250 gals., 15%	
4	3284'-3286'	2250 gals., 15%	



DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

1310 Blson Rd
Hays,KS 67601

ATTN: Herb Deines

Viola #1

15-10s-17 Rooks,KS

Start Date: 2014.04.27 @ 16:37:13

End Date: 2014.04.27 @ 23:32:13

Job Ticket #: 55746 DST #: 1

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

Printed: 2014.04.29 @ 14:22:33



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TDI Inc
1310 Blson Rd
Hays, KS 67601
ATTN: Herb Deines

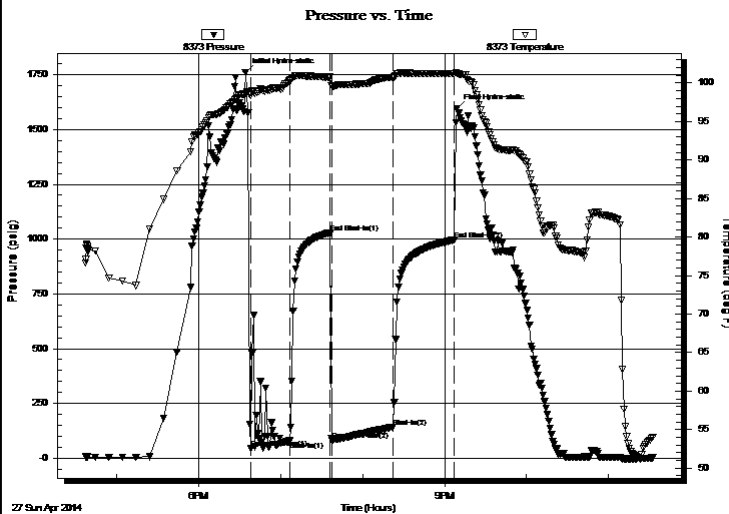
15-10s-17 Rooks, KS
Viola #1
Job Ticket: 55746 **DST#: 1**
Test Start: 2014.04.27 @ 16:37:13

GENERAL INFORMATION:

Formation: **Toronto- LKC D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:38:13
 Time Test Ended: 23:32:13
 Interval: **3241.00 ft (KB) To 3360.00 ft (KB) (TVD)**
 Total Depth: 3360.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brandon Turley
 Unit No: 60
 Reference Elevations: 2090.00 ft (KB)
 2080.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8373 Inside
 Press@RunDepth: 142.34 psig @ 3242.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.04.27 End Date: 2014.04.27 Last Calib.: 2014.04.27
 Start Time: 16:37:18 End Time: 23:32:12 Time On Btm: 2014.04.27 @ 18:34:13
 Time Off Btm: 2014.04.27 @ 21:09:13

TEST COMMENT: IF: 1/4" blow BOB in 11 min. Plugging.
 IS: Surface blow built to 1" died in 14 min.
 FF: BOB in 4 min.
 FS: Surface blow built to 4 1/2" in 15 min. Died in 20 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1761.14	98.65	Initial Hydro-static
4	42.97	98.42	Open To Flow (1)
33	79.51	100.30	Shut-In(1)
62	1029.68	100.76	End Shut-In(1)
64	83.30	99.59	Open To Flow (2)
108	142.34	100.69	Shut-In(2)
153	996.07	101.19	End Shut-In(2)
155	1594.74	101.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	gocm 40%g 10%o 50%m	0.87
124.00	gocm 15%g 5%o 80%m	1.74
155.00	mcgo 20%g 60%o 20%m	2.17
0.00	961 GIP weak gas	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI Inc
1310 Blson Rd
Hays, KS 67601
ATTN: Herb Deines

15-10s-17 Rooks, KS
Viola #1
Job Ticket: 55746 **DST#: 1**
Test Start: 2014.04.27 @ 16:37:13

Tool Information

Drill Pipe:	Length: 3247.00 ft	Diameter: 3.80 inches	Volume: 45.55 bbl	Tool Weight:	1500.00 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: 45.55 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3241.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	119.00 ft				
Tool Length:	139.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Stubb	1.00			3222.00	
Shut In Tool	5.00			3227.00	
Hydraulic tool	5.00			3232.00	
Packer	5.00			3237.00	20.00 Bottom Of Top Packer
Packer	4.00			3241.00	
Stubb	1.00			3242.00	
Recorder	0.00	8373	Inside	3242.00	
Recorder	0.00	8356	Outside	3242.00	
Perforations	17.00			3259.00	
Change Over Sub	1.00			3260.00	
Drill Pipe	94.00			3354.00	
Change Over Sub	1.00			3355.00	
Bullnose	5.00			3360.00	119.00 Bottom Packers & Anchor

Total Tool Length: 139.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc
1310 Blson Rd
Hays, KS 67601
ATTN: Herb Deines

15-10s-17 Rooks, KS
Viola #1
Job Ticket: 55746
Test Start: 2014.04.27 @ 16:37:13

DST#: 1

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 37 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.99 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 3300.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

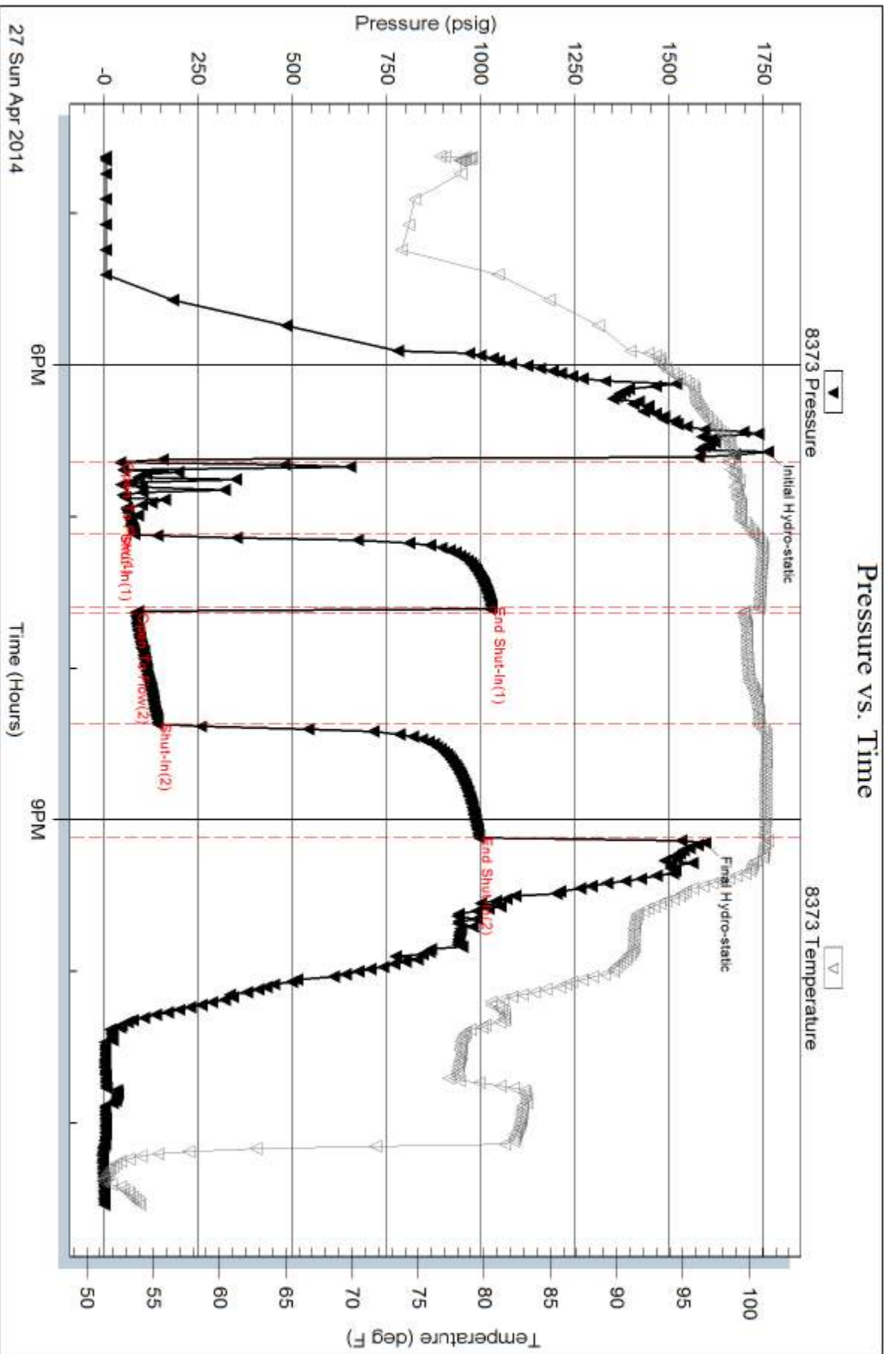
Length ft	Description	Volume bbl
62.00	gocm 40%g 10%o 50%m	0.870
124.00	gocm 15%g 5%o 80%m	1.739
155.00	mcgo 20%g 60%o 20%m	2.174
0.00	961 GIP weak gas	0.000

Total Length: 341.00 ft Total Volume: 4.783 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 37@60=37

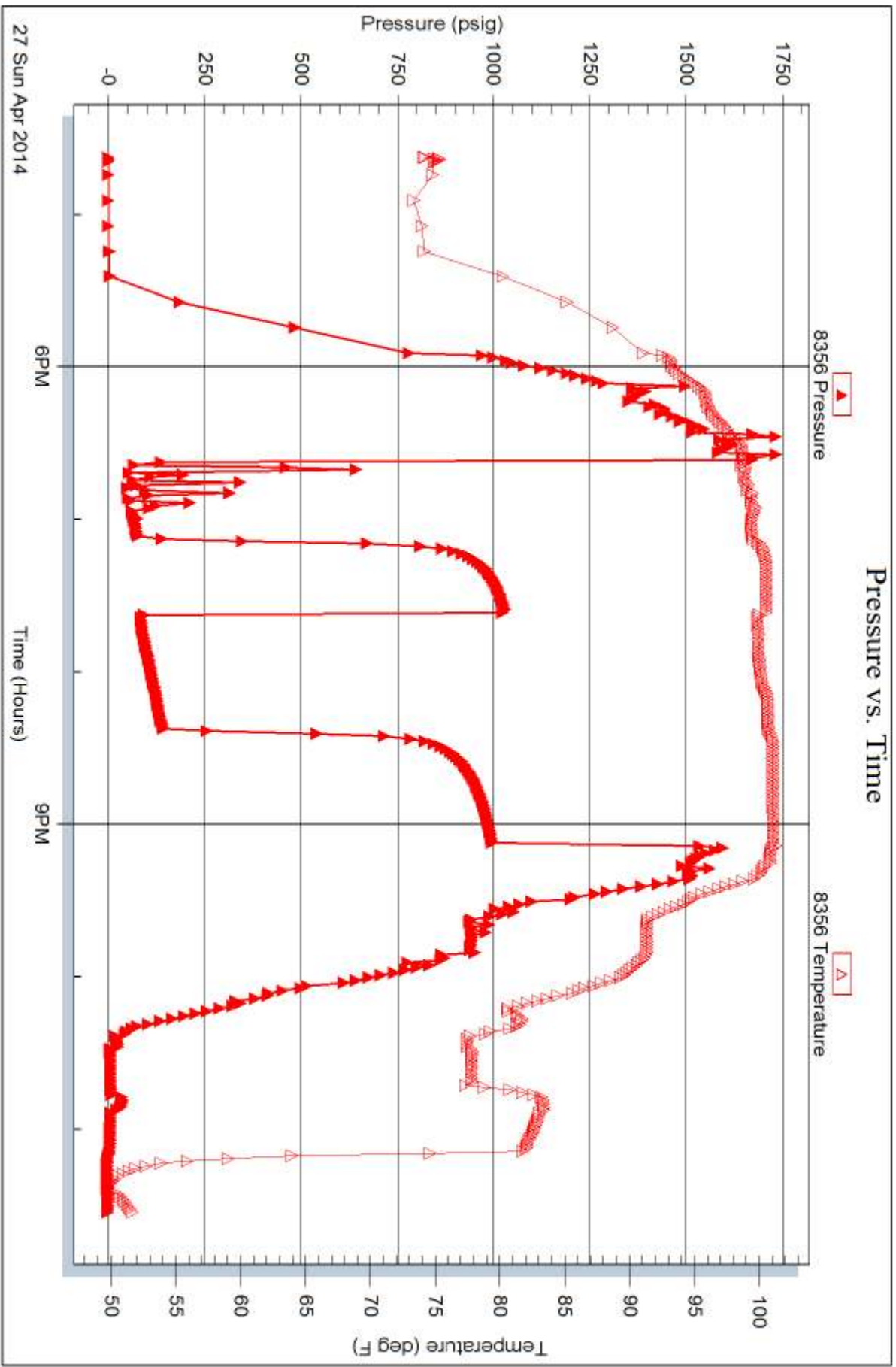


Serial #: 8356

Outside TDI Inc

Viola #1

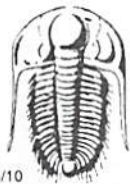
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 55746

Printed: 2014.04.29 @ 14:22:34



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55746

Well Name & No. Dio19 #1 Test No. 1 Date 4-27-14
 Company TDI Inc Elevation 2090 KB 2080 GL
 Address 1310 Bison Rd Hays, KS 67601
 Co. Rep / Geo. Herb Deines Rig South with 1
 Location: Sec. 15 Twp. 10 Rge. 17 Co. Rooks State KS

Interval Tested 3241 3360 Zone Tested Toronto - Lansing D
 Anchor Length 119 Drill Pipe Run 3247 Mud Wt. 9.4
 Top Packer Depth 3236 Drill Collars Run — Vis 61
 Bottom Packer Depth 3241 Wt. Pipe Run — WL 8.0
 Total Depth 3360 Chlorides 3300 ppm System LCM 2

Blow Description IF: 1/4 blow BoB in 11 min. Plugging,
IS: Surface blow built to 1 died in 14 min.
FF: BoB in 4 min.
FS: Surface blow built to 4 1/2 in 15 died 20 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>155</u>	<u>mc90</u>	<u>20</u>	<u>60</u>	<u>20</u>	<u>—</u>
<u>124</u>	<u>90cm</u>	<u>15</u>	<u>5</u>	<u>80</u>	<u>—</u>
<u>62</u>	<u>90cm</u>	<u>40</u>	<u>10</u>	<u>50</u>	<u>—</u>
<u>—</u>	<u>961 GIP</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Rec Total 341 BHT 101 Gravity 37 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1761 Test 1150 T-On Location 15:45
 (B) First Initial Flow 42 Jars — T-Started 16:37
 (C) First Final Flow 79 Safety Joint — T-Open 18:36
 (D) Initial Shut-In 1029 Circ Sub N/L T-Pulled 21:06
 (E) Second Initial Flow 83 Hourly Standby — T-Out 23:35
 (F) Second Final Flow 142 Mileage 308 x2 Comments loaded tools 4/28 mid afternoon
 (G) Final Shut-In 996 Sampler 58rt 179.80
 (H) Final Hydrostatic 1594 Straddle — Ruined Shale Packer —
 Shale Packer — Ruined Packer —

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

Sub Total 1329.80
 Approved By [Signature] 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.

OPERATOR

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

Contact Geologist: TOM DENNING
 Contact Phone Nbr: 785-628-2593
 Well Name: VIOLA # 1
 Location: SW NE NW SE, Sec.15-10s-17w API: 15-163-24,186-00-00
 Pool: WILDCAT Field: UNNAMED
 State: KANSAS Country: USA



Scale 1:240 Imperial

Well Name: VIOLA # 1
 Surface Location: SW NE NW SE, Sec.15-10s-17w
 Bottom Location:
 API: 15-163-24,186-00-00
 License Number: 4787
 Spud Date: 4/23/2014 Time: 5:00 PM
 Region: ROOKS COUNTY
 Drilling Completed: 4/28/2014 Time: 8:08 PM
 Surface Coordinates: 2280' FSL & 1700' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2080.00ft
 K.B. Elevation: 2090.00ft
 Logged Interval: 2900.00ft To: 3775.00ft
 Total Depth: 3775.00ft
 Formation: LANSING-KANSAS CITY
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -99.2013119 Latitude: 39.1823744
 N/S Co-ord: 2280' FSL
 E/W Co-ord: 1700' FEL

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: 4/23/2014 Time: 5:00 PM
 TD Date: 4/28/2014 Time: 8:08 PM
 Rig Release: 4/29/2014 Time: 3:30 PM

ELEVATIONS

K.B. Elevation: 2090.00ft Ground Elevation: 2080.00ft
 K.B. to Ground: 10.00ft

NOTES

RECOMMENDATION TO RUN PRODUCTION CASING BASED ON RESULTS OF DST # 1, FAVORABLE STRUCTURE AND NUMEROUS MINOR SHOWS IN LKC BENCHES.

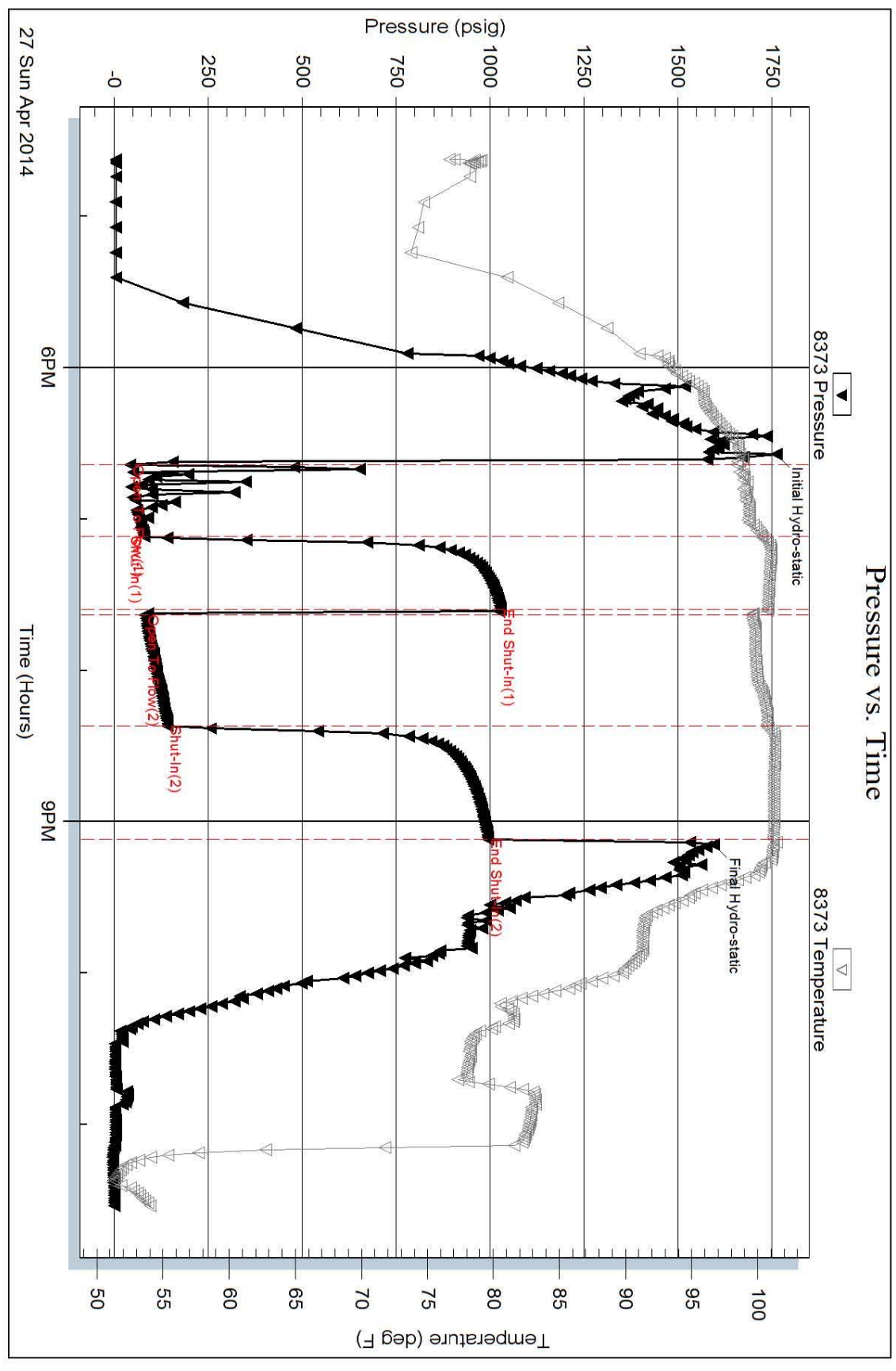
OPEN HOLE LOGGING BY PIONEER ENERGY SERVICES: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG, MICRORESISTIVITY LOG

DRILL STEM TESTING BY TRILOBITE TESTING INC: ONE (1) CONVENTIONAL TEST

FORMATION TOPS COMPARISON AND CHRONOLGY OF DAILY ACTIVITY

VIOLA # 1		BICE #1-3	BICE # 1
SW NE NW SE		NE NW SW	E2 NE NW SE
SEC.15-10S-17W		SEC.15-10-17W	SEC.22-10-17W
2080'GL 2090'KB		KB 2087'	KB 2040'
<u>FORMATION</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>
Anhydrite	1334 +756	+ 737	+744
B-Anhydrite	1372 +718		+711
T	2022 - 2022		2022

Serial #: 8373 Inside TDI Inc Viola #1 DST Test Number: 1



Triobite Testing, Inc Ref. No: 55746 Printed: 2014.04.27 @ 23:49:05

ROCK TYPES

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

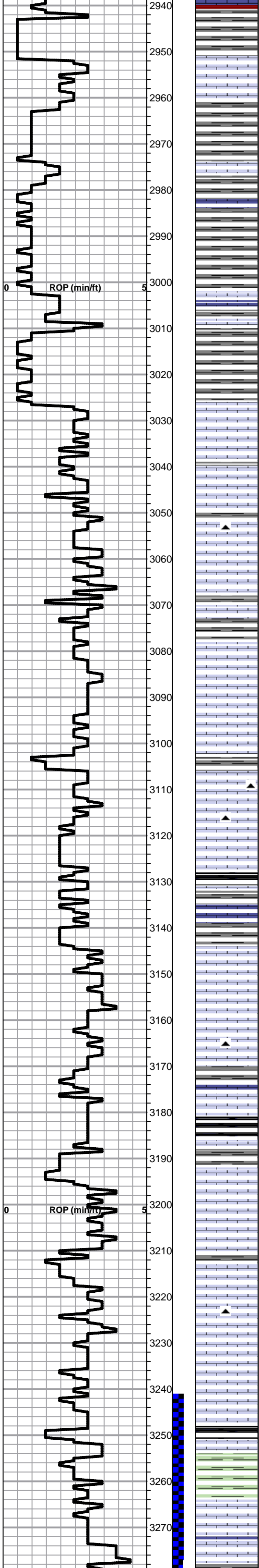
ACCESSORIES

MINERAL

- ▲ Chert, dark
- × Mineral Crystals
- P Pyrite

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

Curve Track #1 ROP (min/ft)	Depth Intervals DST	Lithology	Oil Show	Geological Descriptions	Curve Track #3
1:240 Imperial ROP (min/ft)	Cored Interval DST Interval				1:240 Imperial
	2900			BEGIN 1' DRILL TIME FROM 2900' TO RTD BEGIN 10' WET AND DRY SAMPLES FROM 2950' TO RTD	8 5/8" SURFACE CASING SET TO 223.83' W/150 SX COMMON 2%GEL 3%CC
	2910			ANHYDRITE TOP ELog 1334+756 ANHYDRITE BASE ELog 1372+718	SLOPE 1 DEGREE @ 224'
	2920			Lime, lt-med brn, fnxln, slightly fossiliferous	
	2930			Lime, lt-med brn, fnxln	



Shale, lt gray-red, soft sticky

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

Shale, lt-med gray, soft blocky with sticky clumps in part

Lime, lt-med brn, fnxln, slightly fossiliferous

Shale, med gray, soft blocky-soft sticky clumps

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

Shale, med-dark gray, soft-firm, blocky

TOPEKA SPL 3026-936

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

Lime, med brn-med grayish brn, fn-vfxln, scattered fossil fragments and casts

Lime, lt brn, fn-vfxln, slight bedded chalk, tan chert, fresh

Lime, lt brn-lt grayish brn, fnxln with increasing bedded chalk, slightly fossiliferous in part

Lime, lt-med brn, fn-vfxln

Shale, lt -med gray forming soft mud

Lime, tan-lt brn, fnxln-granular with lt chalk matrix with slight bedded chalk, slightly fossiliferous

Lime, lt brn, fnxln-granular with bedded chalk, slightly fossiliferous

Shale, med gray-black, firm, blocky

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

Lime, lt brn, fn-vfxln

Shale, black carbonaceous, fissile, blocky

Lime, med brn, vfxln

Shale, tan- lime green-gray, soft sticky

Lime, crm-tan, fn-vfxln, clean-lithographic

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

Lime, lt brn-lt grayish brn, fnxln-granular, fossiliferous chert

Shale, dove gray, soft mud

Lime, tan, fnxln, chalky with sticky clumps in part

Shale, black carbonaceous, fissile, blocky

Shale, med-dark gray, firm, calcareous in part

Lime, crm, fnxln, slight bedded chalk, no visible porosity, NS

Lime, tan-lt brn, fn-micro xln

Lime, tan-lt brn, fnxln-granular, lot of bedded chalk with white chalk wash, few chips micro oolitic with fair wet cut, no odor, NFO, very lt staining

Lime, med brn, fnxln-granular, slightly fossiliferous

Lime, tan-lt brn, fnxln, slightly fossiliferous, increasing bedded chalk

Lime, tan-lt brn, fn-vfxln, slightly fossiliferous

HEEBNER SHALE SPL 3248-1158

Shale, black carbonaceous, fissile, blocky

Lime, med brn, vf-micro xln

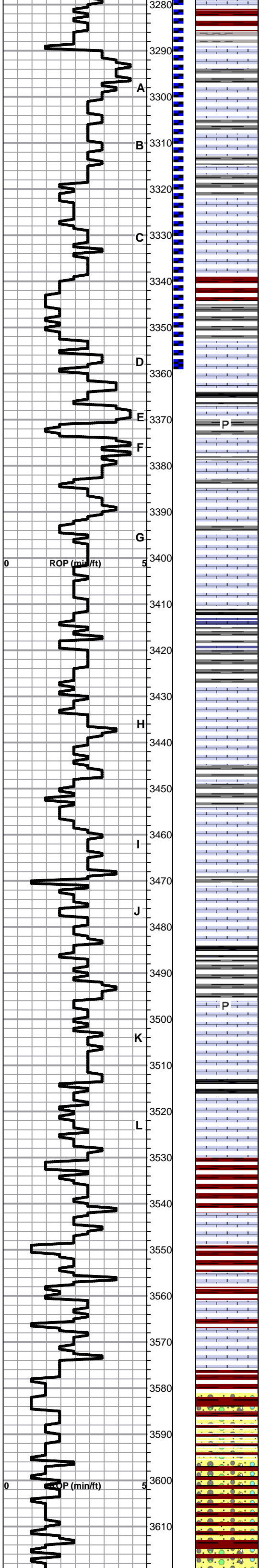
TORONTO

Lime, tan-lt brn, fnxln, cherty, few chips with lt staining, NFO, no odor in fine vuggy and fine interxln porosity

Lime, tan-lt brn, fn-micro xln

CFS @3220'

CFS & SHORT TRIP @3280'



Shale, lt red wash, soft

LKC SPL 3289-1199

Lime, tan, fn-micro xln, tan chert, NS, NFO

Lime, tan, fn-micro xln, increasing darker lime near shale, fusulinids

Lime, tan-brn, fn-vfxln

Shale, lt gray, soft forming sticky clumps

Lime, crm, fnxln, slight bedded chalk, few chips, scattered to saturated staining with very lt odor and very minor show of free oil on crush, fine vuggy in interxln porosity

Lime, white-crm, fnxln

Shale, lt red wash, red-med gray, soft-soft mud

Lime, tan-lt brn with lt green tint in part, fn-vfxln, bedded chalk, NS

Shale, black carbonaceous, blocky
Lime, lt gray with green tint, vfxln

Lime, lt brn, vfxln, NS

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

Lime, crm, fnxln, bedded chalk, NS

Lime, crm-tan, fnxln, lot of hard bedded chalk, NS

Lime, white-crm, fn-vfxln

Shale, gray-black carbonaceous, blocky

Lime, med-dark gray, fn-vfxln, NS

Shale, dove gray-grayish green, soft blocky-soft mud

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

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

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

Lime, tan, fnxln, bedded chalk, spotty staining, NFO, No Odor, fine vuggy and inter xln porosity, appears poorly developed

Lime, tan-lt brn, fnxln, bedded chalk

Lime, crm-tan, fnxln with few oolitic/oolmoldic chips with spotty staining, NFO, No Odor

Shale, black carbonaceous, blocky grading into med gray shale with red shale in part, blocky

Lime, lt brn-lt gray, fn-vfxln with fine xln pyrite inclusions, trace of lt staining, NFO, no odor

Lime, crm-tan, fnxln, bedded chalk

Shale, gray-black carbonaceous, blocky

Lime, tan-lt gray, fnxln, bedded chalk, scattered fossil fragments

BKC SPL 3530-1440

Shale, reddish brn, soft blocky grading into red wash, soft mud

Lime, tan, fnxln-granular, bedded chalk

Lime, tan, fn-vfxln

Lime, crm-tan, fnxln-granular

Lime, tan-crm, fnxln-granular

CONGLOMERATE SPL 3576-1486

Shale, red-dark brn, soft-firm blocky grading into soft dark red shale with deep red wash

Shale, red-dark maroon, soft-firm blocky with increasing vari color chert content, no shows of gilsonite, free oil, staining or odor

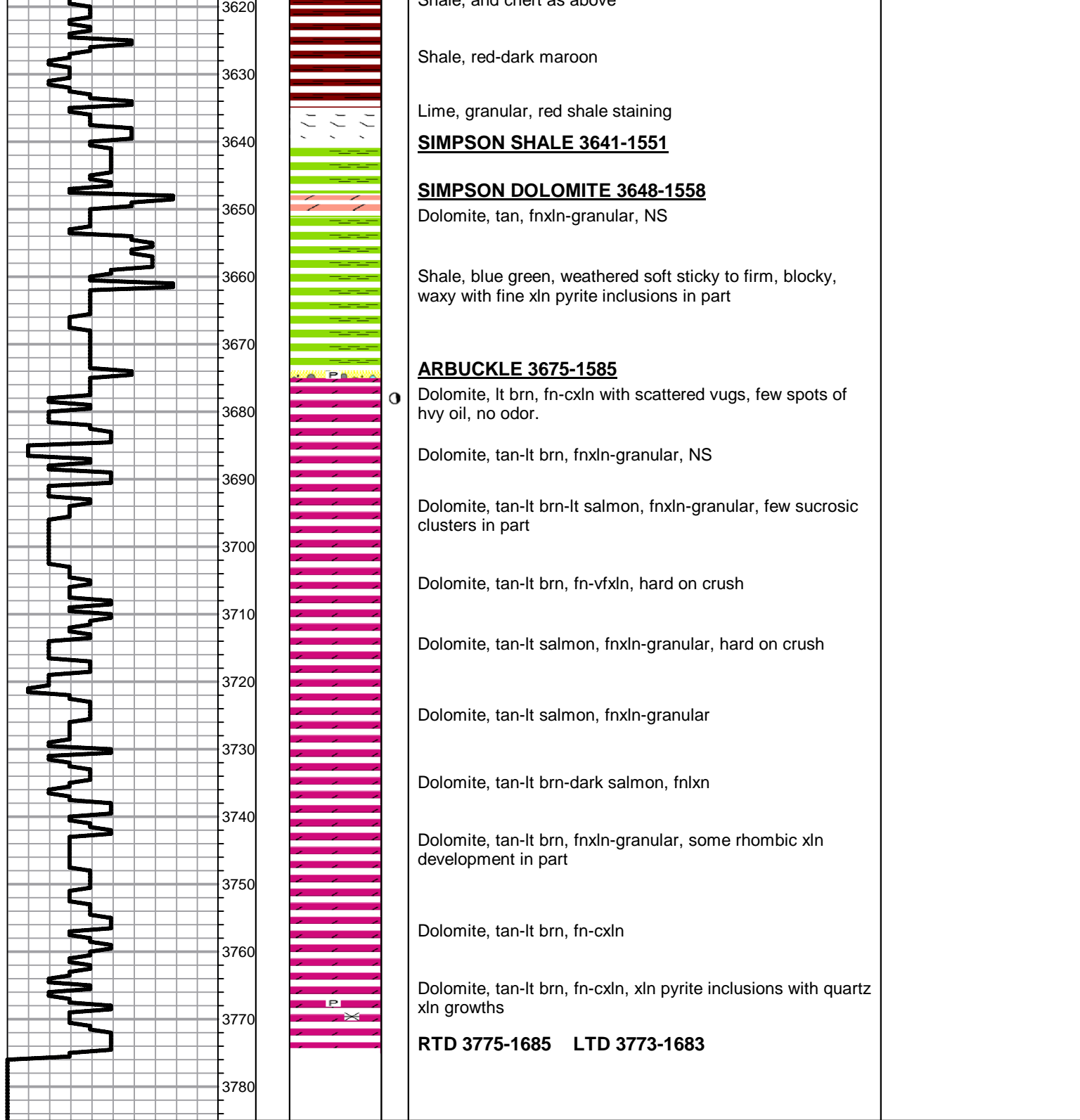
Shale, red-dark maroon, soft with vari colored cherts

Shale and chert as above

Shale and chert as above

DST # 1 3241' TO 3360' SEE HEADER FOR TEST SUMMARY

SLOPE @ 3360' 1 DEGREE



GLOBAL CEMENTING, L.L.C.

1304

REMIT TO 18048 170RD
RUSSELL, KS 67665

SERVICE POINT:

Russell, KS

DATE <i>4-23-14</i>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START <i>11:15pm</i>	JOB FINISH <i>11:45pm</i>
LEASE <i>Viola</i>	WELL #. <i>1</i>	LOCATION			COUNTY <i>Hooker</i>	STATE <i>KS</i>	
OLD OR <input checked="" type="radio"/> NEW (CIRCLE ONE)							

CONTRACTOR *Southwind #1*

TYPE OF JOB *Surface*

HOLE SIZE *12 3/4* T.D.

CASING SIZE *8 5/8* DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *20ft*

PERFS

DISPLACEMENT *12 3/4 bbl*

EQUIPMENT

PUMP TRUCK CEMENTER *Heath*

P1 HELPER *Cody - Brod*

BULK TRUCK

B1 DRIVER *ERIC*

BULK TRUCK

DRIVER

OWNER

CEMENT AMOUNT ORDERED *150sx com 3% lcc*

2% gel

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

REMARKS:

*Ran 5 JTS of 8 5/8 casing and landing it
est circulation with mud pump
Hook up and mix 150sx and disp 12 3/4 bbl
of H2O - Shut in @ 300 ps.
Cement Ad Circulate!!*

CHARGE TO: *TOI*

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

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

SIGNATURE *Lang Beavers*

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

1 3/4 Run 8 5/8

JOB LOG

SWIFT Services, Inc.

DATE 4-29-14 PAGE NO.

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
TOF		1		Vida		5 1/2 Two Stage		28534	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	1000								on location
									TO 3775 SJ 42
									TP 3770 Insert 3728
									DV Top 57 1323" 5 1/2 x 14"
									centralizers 1,3,5,7,9,10,12,56
									Baskets 3, 57
	1130								Start Pipe
	1250								Drop Ball Break Circulation Rotate
	1400	5	12		✓		300		Start Mud flush
		5	20		✓		300		start KCL flush
		5	36		✓		200		start cement 150 sks EA-2
	1420								Drop Plug Wash out Pump + Lines
	1423	6.5							Start Displacement
		6.5	70.9		✓				Start KCL flush
	1440	6.5	90.9		✓		700 1500		land Plug
									Release Dry
	1445								Drop Open Plug
	1446		7/4						Plug MH 30 sks MH-15 sks
	1455						1300		Open DV
	1456		86		✓				Start SMD cement 155 sks
	1585				✓				Prop Plug wash out Pump + Lines
	1516	5			✓				Start Displacement
		5	16		✓		400		Circulate Cement 30 sks to pit
	1530		32.2		✓		400 1500		Land Plug Close DV
									Release Dry
									Wash up Back up
	1615								Job Complete
									Thank You
									Josh, Brian, Rob