



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1088641
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: _____

1088641

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

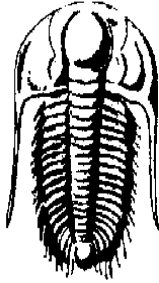
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Rd
Hays KS 67601-9696

ATTN: Herb Deines

Augustine #1

15-13s-17w Ellis,KS

Start Date: 2012.05.23 @ 07:43:05

End Date: 2012.05.23 @ 14:22:39

Job Ticket #: 47332 DST #: 1

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

Printed: 2012.05.24 @ 09:29:01

TDI Inc. 15-13s-17w Ellis,KS Augustine #1 DST # 1 Arbuckle 2012.05.23



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TDI Inc.
1310 Bison Rd
Hays KS 67601-9696
ATTN: Herb Deines

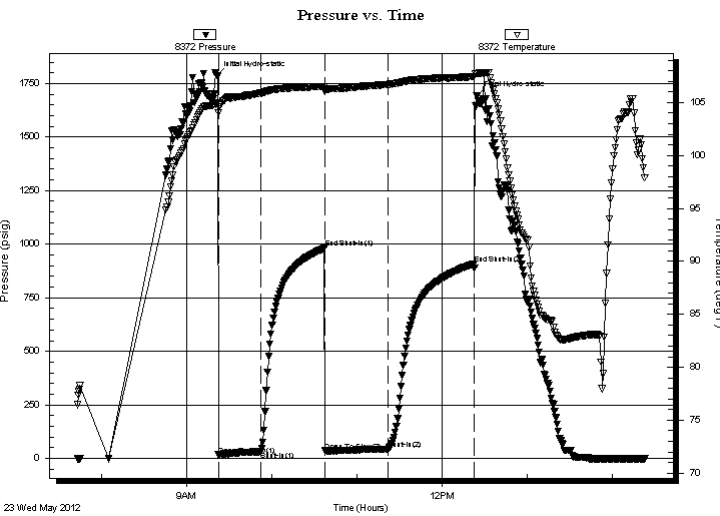
15-13s-17w Ellis,KS
Augustine #1
Job Ticket: 47332 **DST#: 1**
Test Start: 2012.05.23 @ 07:43:05

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:22:10
Time Test Ended: 14:22:39
Interval: **3536.00 ft (KB) To 3596.00 ft (KB) (TVD)**
Total Depth: 3732.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Straddle (Initial)
Tester: Andy Carreira
Unit No: 39
Reference Elevations: 2018.00 ft (KB)
2011.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8372 Outside
Press @ Run Depth: 44.08 psig @ 3539.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.05.23 End Date: 2012.05.23 Last Calib.: 2012.05.23
Start Time: 07:43:05 End Time: 14:22:40 Time On Btm: 2012.05.23 @ 09:20:50
Time Off Btm: 2012.05.23 @ 12:24:20

TEST COMMENT: IF:(30min) Fair 3" blow
IS:(45min) No Return
FF:(45min) 1" blow
FS:(60min) No Return



PRESSURE SUMMARY

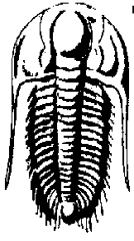
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1788.17	104.93	Initial Hydro-static
2	17.24	104.05	Open To Flow (1)
32	31.25	105.88	Shut-In(1)
77	981.82	106.53	End Shut-In(1)
77	35.89	106.06	Open To Flow (2)
121	44.08	106.71	Shut-In(2)
182	908.81	107.44	End Shut-In(2)
184	1691.78	107.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM o=5% m=95%	0.84
10.00	CO o=100%	0.14

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TDI Inc.
1310 Bison Rd
Hays KS 67601-9696
ATTN: Herb Deines

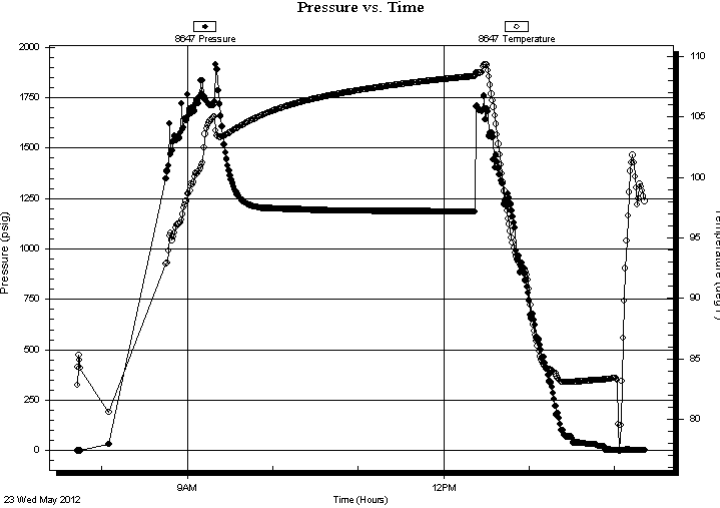
15-13s-17w Ellis,KS
Augustine #1
Job Ticket: 47332 **DST#: 1**
Test Start: 2012.05.23 @ 07:43:05

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Straddle (Initial)
 Time Tool Opened: 09:22:10 Tester: Andy Carreira
 Time Test Ended: 14:22:39 Unit No: 39
 Interval: **3536.00 ft (KB) To 3596.00 ft (KB) (TVD)** Reference Elevations: 2018.00 ft (KB)
 Total Depth: 3732.00 ft (KB) (TVD) 2011.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8647 Below (Straddle)
 Press @ Run Depth: psig @ 3605.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.23 End Date: 2012.05.23 Last Calib.: 2012.05.23
 Start Time: 07:43:05 End Time: 14:21:10 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF:(30min) Fair 3" blow
 IS:(45min) No Return
 FF:(45min) 1" blow
 FS:(60min) No Return



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

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	OCM o=5% m=95%	0.84
10.00	CO o=100%	0.14

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI Inc.
1310 Bison Rd
Hays KS 67601-9696
ATTN: Herb Deines

15-13s-17w Ellis,KS
Augustine #1
Job Ticket: 47332 **DST#: 1**
Test Start: 2012.05.23 @ 07:43:05

Tool Information

Drill Pipe:	Length: 3540.00 ft	Diameter: 3.80 inches	Volume: 49.66 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 49.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3536.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	3596.00 ft			
Interval between Packers:	60.00 ft			
Tool Length:	220.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3517.00	
Shut In Tool	5.00			3522.00	
Hydraulic tool	5.00			3527.00	
Packer	5.00			3532.00	20.00 Bottom Of Top Packer
Packer	4.00			3536.00	
Stubb	1.00			3537.00	
Perforations	1.00			3538.00	
Change Over Sub	1.00			3539.00	
Recorder	0.00	8017	Inside	3539.00	
Recorder	0.00	8372	Outside	3539.00	
Drill Pipe	31.00			3570.00	
Change Over Sub	1.00			3571.00	
Perforations	20.00			3591.00	
Blank Spacing	4.00			3595.00	
Blank Off Sub	1.00			3596.00	60.00 Tool Interval
Packer	4.00			3600.00	
Stubb	1.00			3601.00	
Perforations	3.00			3604.00	
Change Over Sub	1.00			3605.00	
Recorder	0.00	8647	Below	3605.00	
Drill Pipe	126.00			3731.00	
Change Over Sub	1.00			3732.00	
Perforations	2.00			3734.00	
Bullnose	2.00			3736.00	140.00 Bottom Packers & Anchor
Total Tool Length:	220.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc.
1310 Bison Rd
Hays KS 67601-9696
ATTN: Herb Deines

15-13s-17w Ellis,KS
Augustine #1
Job Ticket: 47332 **DST#: 1**
Test Start: 2012.05.23 @ 07:43:05

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: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

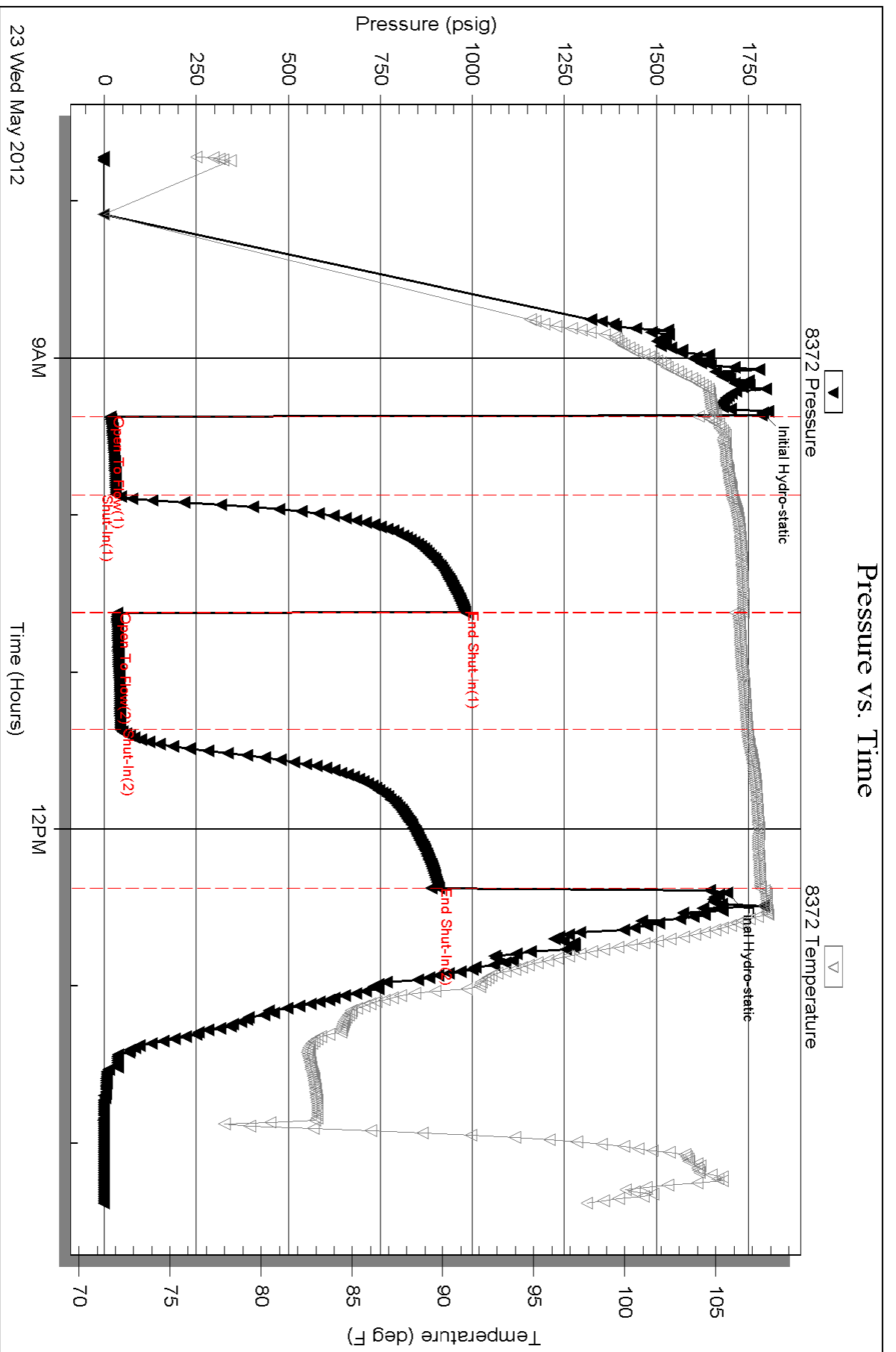
Length ft	Description	Volume bbl
60.00	OCM o=5% m=95%	0.842
10.00	CO o=100%	0.140

Total Length: 70.00 ft Total Volume: 0.982 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



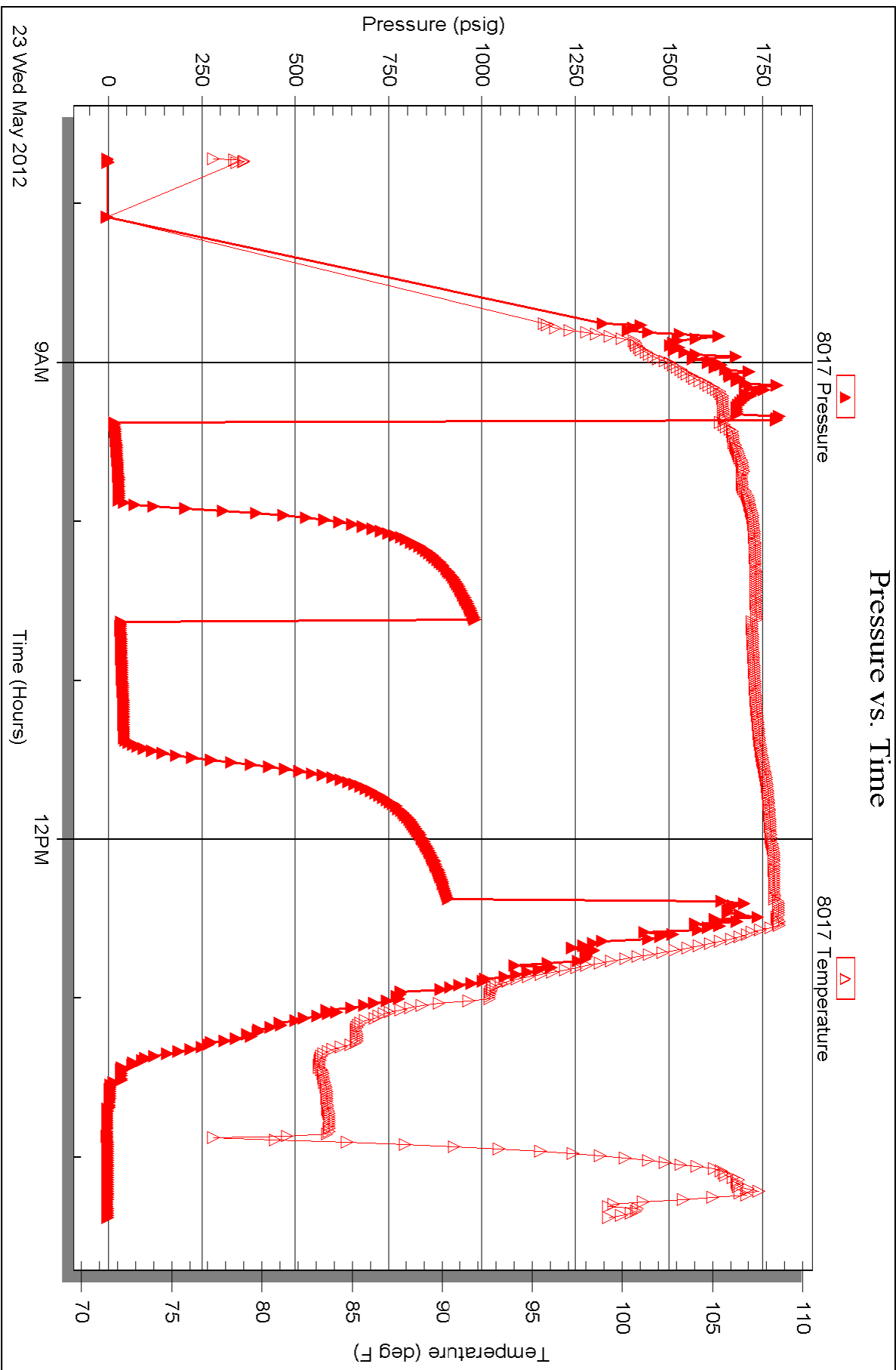
Serial #: 8017

Inside

TDI Inc.

Augustine #1

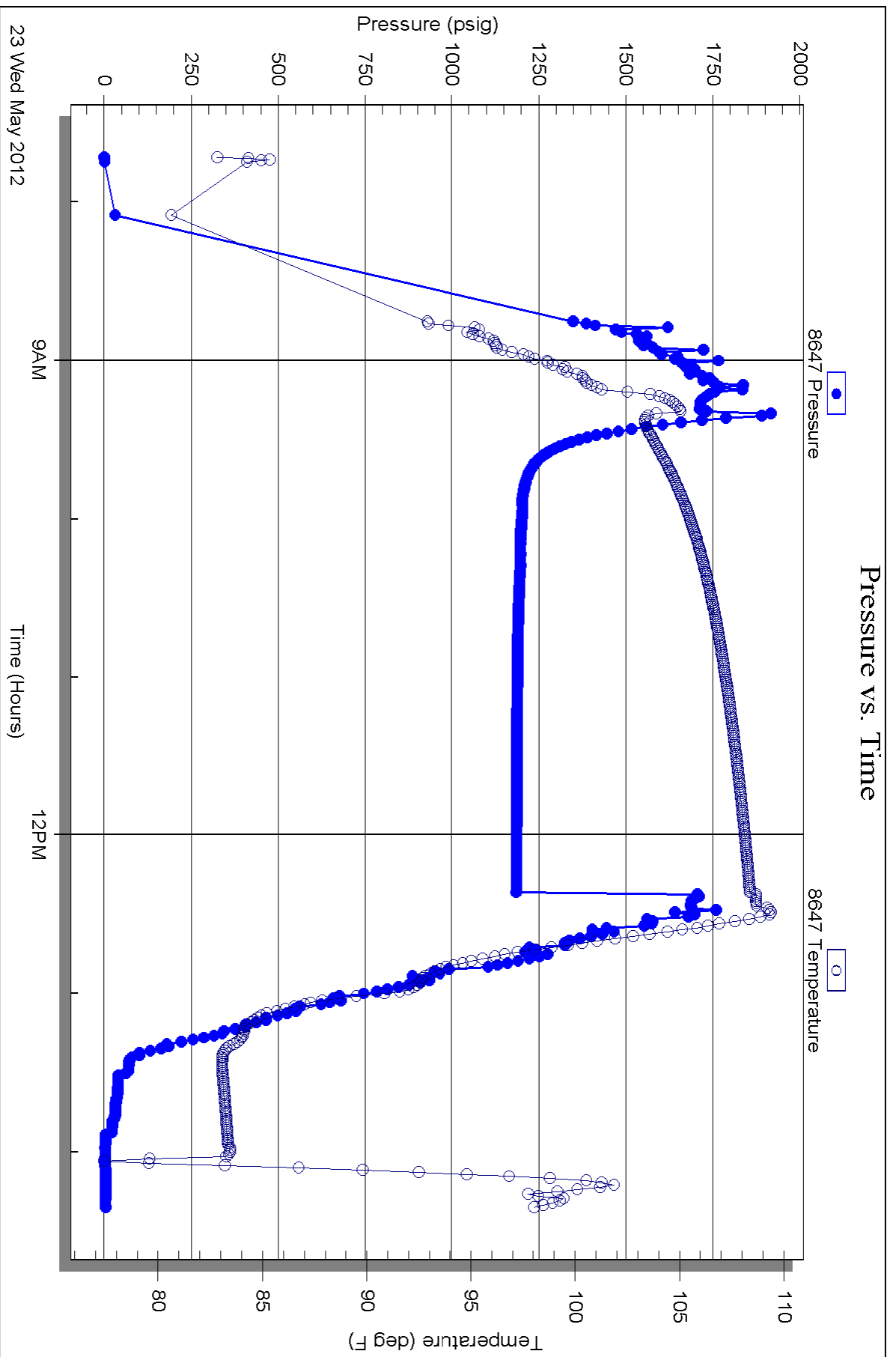
DST Test Number: 1



Triobite Testing, Inc

Ref. No: 47332

Printed: 2012.05.24 @ 09:29:05





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47332

4/10

Well Name & No. Augustine #1 Test No. 1 Date 5-23-12
 Company TDI inc Elevation 2018 KB 2011 GL
 Address 1310 BISON RD Hays, Ks. 67601 + 9696
 Co. Rep / Geo. Herb Deines Rig Southwind #1
 Location: Sec. 15 Twp. 13S Rge. 17W Co. Ellis State K5

Interval Tested 3536-3596 Zone Tested Arbuckle
 Anchor Length 60 Drill Pipe Run 3540 Mud Wt. 9.1
 Top Packer Depth 3536 Drill Collars Run 0 Vis 57
 Bottom Packer Depth 3596 Wt. Pipe Run 0 WL 6.8
 Total Depth 3732 Chlorides 6500 ppm System LCM 2

Blow Description IF: FAIR 3" blow
FSI: NO RETURN
FF: 1" blow
FST: NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>CO</u>		<u>100</u>		
<u>60</u>	<u>OCM</u>		<u>5</u>		<u>95</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 70' BHT Gravity 24 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1788 Test ← 1150 T-On Location 06:30
 (B) First Initial Flow 17 Jars T-Started 07:43
 (C) First Final Flow 31 Safety Joint T-Open 09:22
 (D) Initial Shut-In 981 Circ Sub T-Pulled 12:22
 (E) Second Initial Flow 35 Hourly Standby T-Out 14:23
 (F) Second Final Flow 44 Mileage ← 19RT 29.45 Comments
 (G) Final Shut-In 908 Sampler
 (H) Final Hydrostatic 1691 Straddle ← 600 Ruined Shale Packer

Initial Open 30 Shale Packer Ruined Packer
 Initial Shut-In 45 Extra Packer Extra Copies
 Final Flow 45 Extra Recorder Sub Total 0
 Final Shut-In 60 Day Standby Total 1779.45
 Accessibility MP/DST Disc't
 Sub Total 1779.45

Approved By _____ Our Representative [Signature]

Triobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

OPERATOR

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

Contact Geologist: TOM DENNING
 Contact Phone Nbr: 785-259-3141
 Well Name: AUGUSTINE # 1
 Location: NW NW SE SW
 Pool: INFIELD
 State: Kansas

API: 15-051-26,290-00-00
 Field: CATHERINE SOUTH
 Country: USA



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

Scale 1:240 Imperial

Well Name: AUGUSTINE # 1
 Surface Location: NW NW SE SW
 Bottom Location:
 API: 15-051-26,290-00-00
 License Number: 4787
 Spud Date: 5/18/2012 Time: 3:30 PM
 Region: ELLIS COUNTY Time: 8:14 PM
 Drilling Completed: 5/22/2012
 Surface Coordinates: 1200' FSL & 1400' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 2008.00ft
 K.B. Elevation: 2018.00ft
 Logged Interval: 2900.00ft To: 3732.00ft
 Total Depth: 3735.00ft
 Formation: ARBUCKLE
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 1200' FSL
 E/W Co-ord: 1400' FWL

LOGGED BY

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

CONTRACTOR

Contractor: SOUTHWIND DRILLING, INC.
 Rig #: 1
 Rig Type: MUD ROTARY
 Spud Date: 5/18/2012 Time: 3:30 PM
 TD Date: 5/22/2012 Time: 8:14 PM
 Rig Release: 5/24/2012 Time: 2:00 AM

ELEVATIONS

K.B. Elevation: 2018.00ft Ground Elevation: 2008.00ft
 K.B. to Ground: 10.00ft

NOTES

RECOMMENDATION TO RUN 5 1/2' PRODUCTION CASING TO TEST ARBUCKLE BASED ON FAVORABLE STRUCTURE AND POSITIVE RESULTS OF DST # 1.


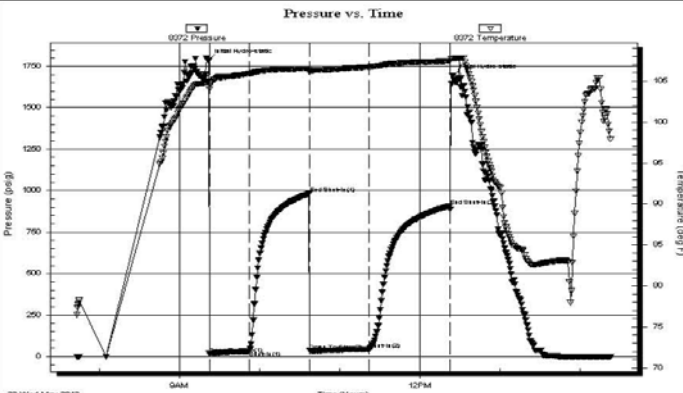
FORMATION TOPS AND DAILY ACTIVITY REPORT

AUGUSTINE #1

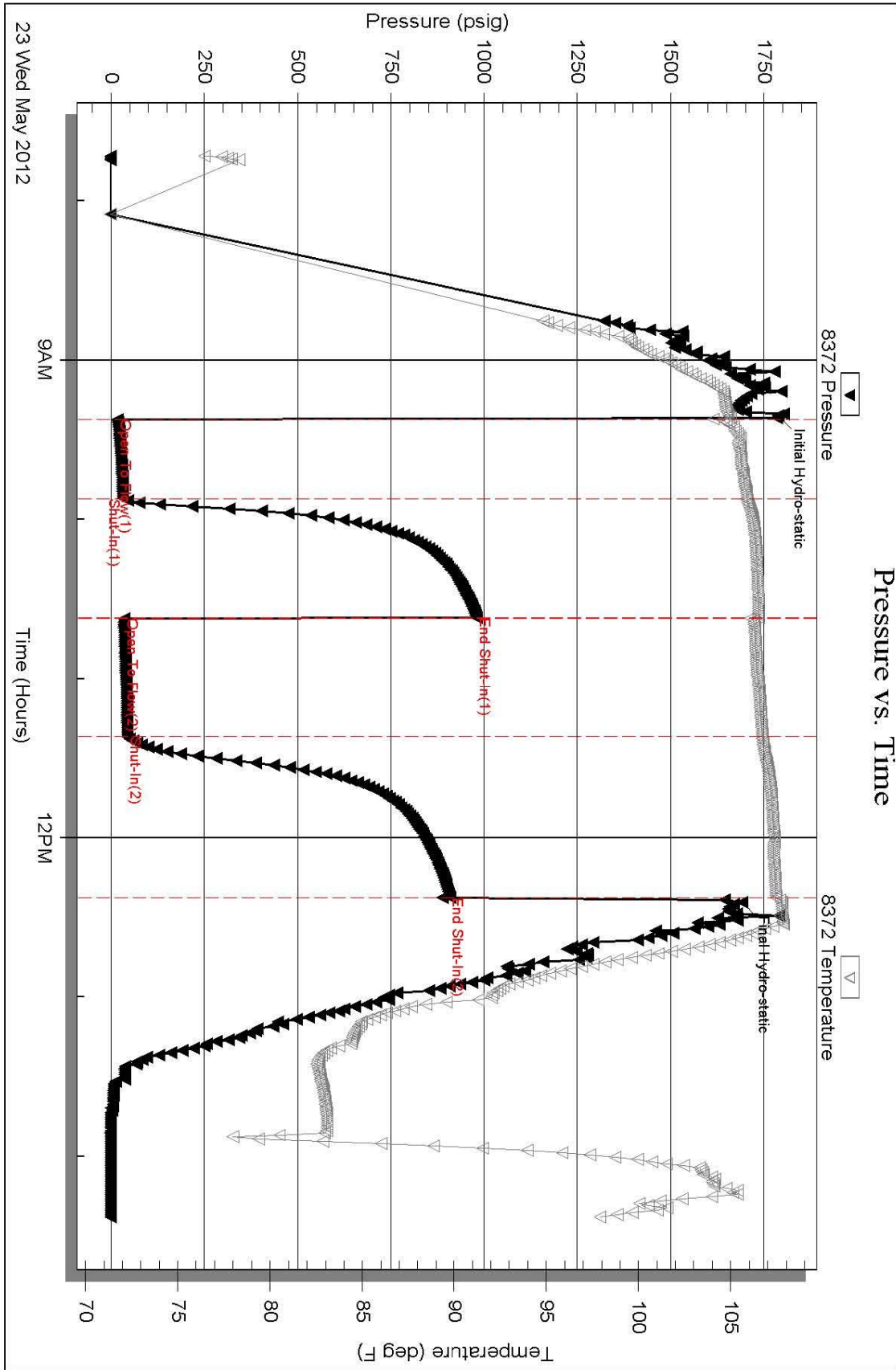
<u>FORMATION</u>	<u>SAMPLE TOP</u>	<u>LOG TOP</u>
Anhydrite	1242+ 776	1240+ 778
B-Anhydrite	1277+ 741	1275+ 743
Topeka	3033-1015	3028-1010
Heebner Shale	3273-1255	3268-1250
Toronto	3294-1276	3289-1271
LKC	3319-1301	3314-1296
BKC	3544-1526	3540-1522
Arbuckle	3563-1545	3558-1540
RTD	3735-1717	
LTD		3732-1714

- 5-18-12 RU, Spud, set surface casing to 215' w/150 sxs. Common, 2%gel, 3%CC, Slope survey ¼ degree, WOC 8 hrs. Plug down 7:15PM.
- 5-19-12 446' drilling
- 5-20-12 1955' drilling
- 5-21-12 2864' drilling
- 5-22-12 3405' drilling
- 5-23-12 3735' RTD, Logs, DST#1 Straddle test, run production casing
- 5-24-12 3735' finish cementing DV tool, RD

DST #1 STRADDLE TEST - ARBUCKLE

	DRILL STEM TEST REPORT																																						
	TDI Inc. 1310 Bison Rd. Hays KS 67601+9696 ATTN: Herb Deines	15-13s-17w Ellis,KS Augustine #1 Job Ticket: 47332 DST#: 1 Test Start: 2012.05.23 @ 07:43:05																																					
GENERAL INFORMATION: Formation: Arbuckle Deviated: No Whipstock: ft (KB) Time Tool Opened: 09:22:10 Time Test Ended: 14:22:39 Test Type: Conventional Straddle (Initial) Tester: Andy Carreira Unit No: 39 Interval: 3536.00 ft (KB) To 3596.00 ft (KB) (TVD) Total Depth: 3732.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair Reference Elevations: 2018.00 ft (KB) 2011.00 ft (CF) KB to GR/CF: 7.00 ft																																							
Serial #: 8372 Outside Press@RunDepth: 44.08 psig @ 3539.00 ft (KB) Capacity: 8000.00 psig Start Date: 2012.05.23 End Date: 2012.05.23 Last Calib.: 2012.05.23 Start Time: 07:43:05 End Time: 14:22:40 Time On Btm: 2012.05.23 @ 09:20:50 Time Off Btm: 2012.05.23 @ 12:24:20																																							
TEST COMMENT: IF:(30min) Fair 3" blow ISl:(45min) No Return FF:(45min) 1" blow FSl:(60min) No Return																																							
	PRESSURE SUMMARY <table border="1"> <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>1788.17</td><td>104.93</td><td>Initial Hydro-static</td></tr> <tr><td>2</td><td>17.24</td><td>104.05</td><td>Open To Flow (1)</td></tr> <tr><td>32</td><td>31.25</td><td>105.88</td><td>Shut-In(1)</td></tr> <tr><td>77</td><td>981.82</td><td>106.53</td><td>End Shut-In(1)</td></tr> <tr><td>77</td><td>35.89</td><td>106.06</td><td>Open To Flow (2)</td></tr> <tr><td>121</td><td>44.08</td><td>106.71</td><td>Shut-In(2)</td></tr> <tr><td>182</td><td>908.81</td><td>107.44</td><td>End Shut-In(2)</td></tr> <tr><td>184</td><td>1691.78</td><td>107.74</td><td>Final Hydro-static</td></tr> </tbody> </table>			Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	1788.17	104.93	Initial Hydro-static	2	17.24	104.05	Open To Flow (1)	32	31.25	105.88	Shut-In(1)	77	981.82	106.53	End Shut-In(1)	77	35.89	106.06	Open To Flow (2)	121	44.08	106.71	Shut-In(2)	182	908.81	107.44	End Shut-In(2)	184	1691.78	107.74	Final Hydro-static
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DST # 1 EXPANDED CHARTS



Serial #: 8372 Outside TDI Inc. Augustine #1 DST Test Number: 1

Tribolite Testing, Inc Ref. No: 47332 Printed: 2012.05.23 @ 16:20:00

ROCK TYPES

Dolprim	Lscongl shale, grn	Carbon Sh shale, red	Shgy
Lmst fw7>			

ACCESSORIES

MINERAL	FOSSIL
Varicolored chert	Oolite
Chert White	

OTHER SYMBOLS

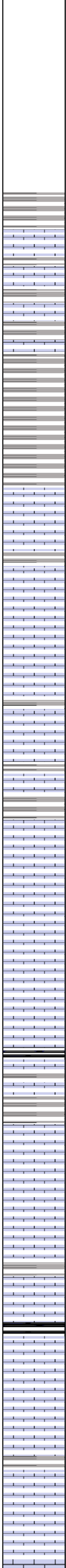
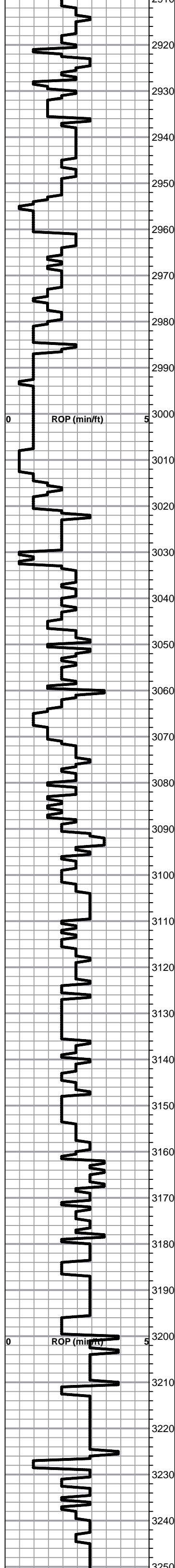
DST
DST Int
DST alt

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
1:240 Imperial ROP (min/ft)	Cored Interval DST Interval				
	2900				
	2910				
				ANHYDRITE TOP Spl 1242+776 ELog 1240+778	
				ANHYDRITE BASE Spl 1277+ ELog 1275+743	

1' drill time from 2900' to RTD
 10' wet and dry samples from 3000' to RTD

Slope 215' 1/4 degree



Lime, med brn-gray, fnxln, fossiliferous in brn lime
 Shale, light gray, soft, sticky mud balls
 Lime, brn-gray, fnxln, shaley in part

Shale, lt-med gray, soft forming soft mud balls in part

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

TOPEKA Spl 3033-1015 ELog 3028-1010

Lime, lt-med brn-grayish brn, fnxln, fossiliferous, trashy in part

Lime, lt-med brn-lt gray, fn-vfxln, slightly fossiliferous

Lime, lt-med brn-gray, fnxln, slightly fossiliferous, slight chalk

Lime, brn-gray, fnxln with light brn granular lime in part, NS

Lime, offwht-med brn, fnxln

Shale, med gray, calcareous

Lime, lt brn-grayish brn, fn-vfxln

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

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

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

Lime, lt-med brn, granular with chalk, slightly fossiliferous

Shale, blk carbonaceous, pyritic

Lime, brnsh gray, fnxln

Lime, crm-lt brn, fnxln-lithographic

Lime, crm-lt brn, cryptocrystalline

Lime, offwht-crm, cryptocrystalline

Shale, med gray, calcareous with fossil fragments

Lime, brn-lt gray, fnxln

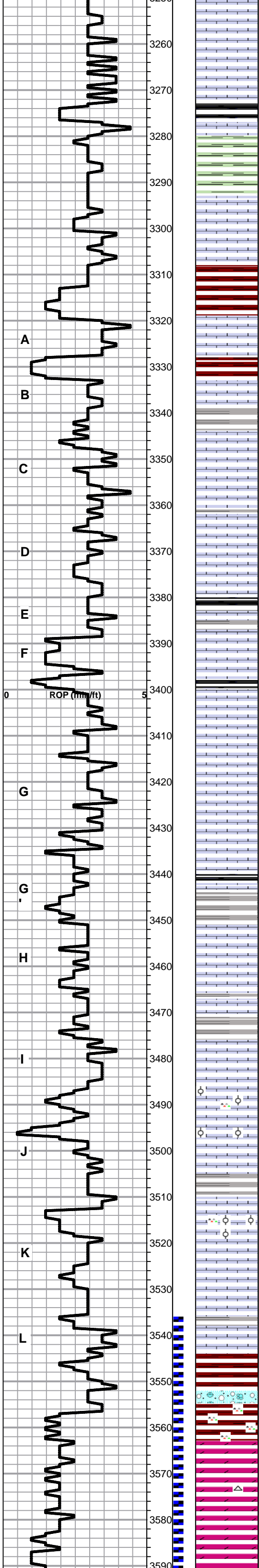
Shale, black carbonaceous with black chert, sharp, fresh

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

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

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

Lime, crm-lt brn, fnxln



Lime, lt-med brn, fnxn with increasing chalk content

HEEBNER SHALE Spl 3273-1255 ELog 3268-1250

Shale, black carbonaceous
Lime, brn, fnxn
Shale, lime green-dove gray, soft

TORONTO Spl 3294-1276 ELog 3289-1271

Lime, lt-med brn, fnxn, chalk in part, few chips with pinpoint vuggy porosity, VMSFO on break, No Odor

Lime, crm-wht, fn-vfxln, NS

Shale, red, soft forming mud balls

LKC Spl 3319-1301 ELog 3314-1296

Lime, lt-med brn, fnxn

Shale, red wash

Lime, crm-lt-med brn, fnxn, chalk in part, NS

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

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

Lime, crm-lt brn, vfxln, very clean in appearance, slight chalk in part

Shale, gray-black carbonaceous
Lime, lt brn, fnxn
Shale, lime green, soft

Lime, crm-tan, mostly fnxn, few chips with vuggy porosity with minor SFO on break with light odor

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

Lime, crm-tan, fn-vfxln, slight chalk in part

Lime, crm-tan, fn-vfxln

Lime, lt brn, shaley, fnxn
Shale, blk carbonaceous with black chert

Shale, gray, calcareous

Lime, crm-gray, fnxn, slightly fossiliferous, light scattered stain in fine pinpoint porosity NFO, No Odor

Lime, crm-lt brn, fn-vfxln

Lime, lt-med brn, fn-vfxln

Lime, crm-lt brn, few oolmolic with scattered stain, NFO, No Odor

Lime, lt-med brn, fnxn

Lime, crm-lt brn, mostly fnxn, oolmoldic in part with light odor on crush, spreading stain as sample heated up.

Lime, crm-med brn, fn-vfxln, bedded chalk in part

Lime, lt-med brn, fn-vfxln, chalk in part

Lime, lt brn, fn-vfxln

BKC Spl 3544-1526 ELog 3540-1522

Shale, reddish brn, blocky
Lime, clastic mix with red shale staining
Shale, lt brn red, soft, vari color cherts

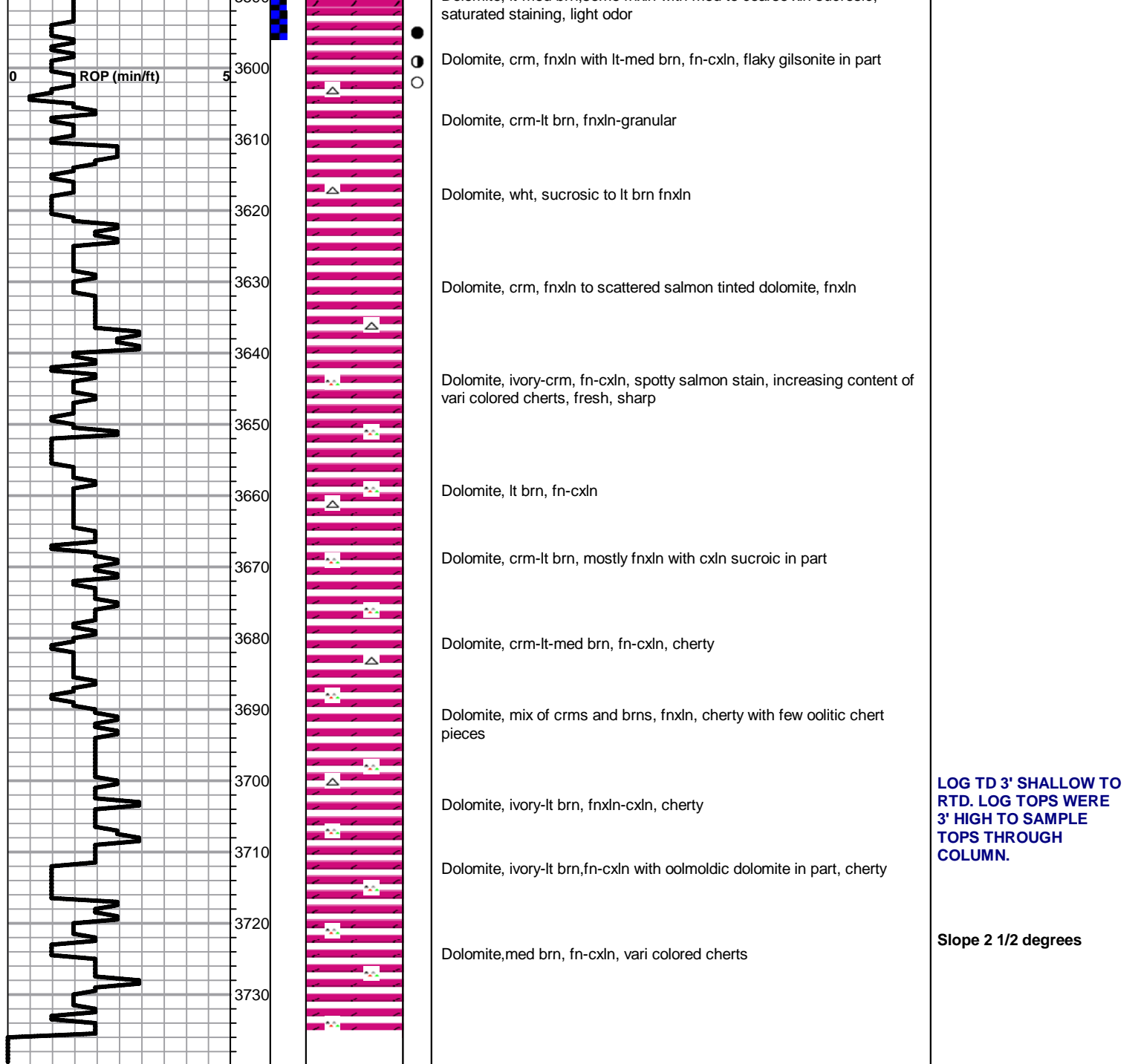
ARBUCKLE Spl 3563-1545 ELog 3558-1540

Dolomite, lt-med brn, fn-med granular, sucrosic, saturated stain with light odor and MSFO as sample warmed up

Dolomite, lt-med brn, fn-med granular, saturated staining, light odor

Dolomite, lt-med brn, some fnxn with med to coarse xln sucrosic.

DST # 1 STRADDLE TEST
3536-3596 LOG INTERVAL
SEE HEADER FOR TEST DETAILS AND CHART



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 662

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-18-12	15	13	17	Ellis	KS		7:15 p.m.

Lease	Well No.	Location
Augustine	1	Catherine 1/2 E 1/2 S 1/2 E into

Contractor	Owner
Southwind #1	To Quality Oilwell Cementing, Inc.

Type Job	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.	
12 1/4	215	

Csg.	Depth	Charge To
8 5/8	215	TDI

Tbg. Size	Depth	Street

Tool	Depth	City	State

Cement Left in Csg.	Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.
15'		

Meas Line	Displace	Cement Amount Ordered
	12 1/2 BCL	150 com 3 1/2 L 2 1/2 L 1

EQUIPMENT

Pumptrk	No.	Cementer	Helper	Common
9		Craig		150

Bulktrk	No.	Driver	Driver	Poz. Mix
		Matt		

Bulktrk	No.	Driver	Driver	Gel.
14		Lennie		3

JOB SERVICES & REMARKS

Remarks:	Hulls
----------	-------

Rat Hole	Salt
----------	------

Mouse Hole	Flowseal
------------	----------

Centralizers	Kol-Seal
--------------	----------

Baskets	Mud CLR 48
---------	------------

D/V or Port Collar	CFL-117 or CD110 CAF 38
--------------------	-------------------------

8 5/8 on bottom Fst + Circulation.	Sand
------------------------------------	------

Mix 150 5/8 + Displace	Handling
	15 B

	Mileage
--	---------

FLOAT EQUIPMENT

	Guide Shoe
--	------------

	Centralizer
	8 5/8 surge

	Baskets
--	---------

	AFU Inserts
--	-------------

	Float Shoe
--	------------

	Latch Down
--	------------

--	--

--	--

	Pumptrk Charge
	Surface

	Mileage
	13

	Tax
--	-----

	Discount
--	----------

	Total Charge
--	--------------

X Signature *Dick*

JOB LOG

SWIFT Services, Inc.

DATE 05-23-12 PAGE NO. 7

CUSTOMER T.O. 2, WELL NO. 1, LEASE AUGUSTINE, JOB TYPE 2-STAGE, TICKET NO. 21373

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2030							ON LOCATION CMT: Bottom 150 S&S STD EA-2 Top 200 S&S SMD
								R.D. 3735 SET PIPE 3728 S 142.53 INSERT 3785 5 1/2 14 1/4 D.V. ON TOP #60, 1259 FT CENT: 1, 3, 5, 6, 8, 10, 12, 59 BAYS: 4, 14, 60, 82 Run 88 JOINTS, JOINTS OUT 2, 40, 91
	2215							START C&U AFFOATELY
	2345							TAG BOTTOM - DROP BALL
	2350							BREAK CIRC & ROTATE PIPE
	0050	5.0	12				200	500 GALS MUD FLUSH
		5	20				5	20 bbls MCL FLUSH
			36.5					150 S&S EA-2
								DROP L.D. PLUG & WASH OUT PL.
	0105	6.5	0				20	START DISP. w/ H2O
			62				400	" " w/ MUD 15 bbls
			77				600	" " w/ MCL 15 bbls
			85				700	
	0120		90.1				1500	LAND PLUG
								RELEASE PLUG, DRY
								DROP D.V. OPENING PART
	0125		7.5					PLUG RH 30, MH 20
	0133	2.0	5.0				1100	OPEN D.V. w/ 5 bbls MCL
	0135	5.7	0				200	START SMD CMT
	0150	5	85				5	END
								DROP D.V. CLOSING PLUG
	0153	5.0	0				200	START DISP.
			20				400	CIRC CMT TO PIT!!! 20 S&S
			25				500	
	0200		30.1				1300	LAND & CLOSE D.V.
	0245							JOB COMPLETE THANK YOU! DAVE, JOSH, ROB

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

Sam Brownback, Governor

July 25, 2012

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

Re: ACO1
API 15-051-26290-00-00
Augustine 1
SW/4 Sec.15-13S-17W
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