



1098203

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
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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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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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> _____
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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: _____ _____
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DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Rd
Hays KS 67601

ATTN: Herb Deines

Bixenman #1

11-15s-19w Ellis,KS

Start Date: 2012.08.18 @ 14:45:05

End Date: 2012.08.18 @ 20:27:50

Job Ticket #: 47916 DST #: 1

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

Printed: 2012.08.27 @ 11:14:39

TDI Inc.
11-15s-19w Ellis,KS
Bixenman #1
DST # 1
LKC'A-C'
2012.08.18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

11-15s-19w Ellis,KS
Bixenman #1
Job Ticket: 47916 **DST#: 1**
Test Start: 2012.08.18 @ 14:45:05

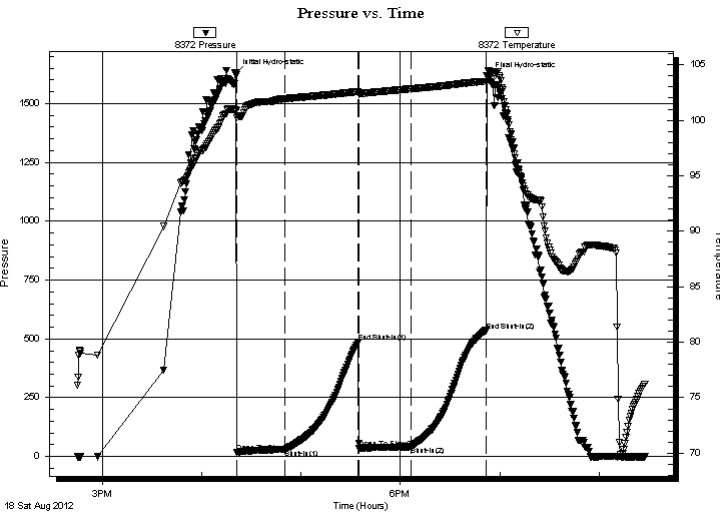
GENERAL INFORMATION:

Formation: **LKC"A-C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:21:20
Time Test Ended: 20:27:50
Interval: **3332.00 ft (KB) To 3382.00 ft (KB) (TVD)**
Total Depth: 3382.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Andy Carreira
Unit No: 39
Reference Elevations: 2065.00 ft (KB)
2058.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8372 Outside

Press @ Run Depth: 42.57 psig @ 3339.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.08.18 End Date: 2012.08.18 Last Calib.: 2012.08.18
Start Time: 14:45:05 End Time: 20:27:50 Time On Btm: 2012.08.18 @ 16:20:30
Time Off Btm: 2012.08.18 @ 18:53:00

TEST COMMENT: IF:(30min) 5" blow in 15 min. 8" in 20 min.
IS:(45min) No Return
FF:(30min) BOB, 30 sec.
FS:(45min) No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1625.36	100.89	Initial Hydro-static
1	16.60	100.23	Open To Flow (1)
30	30.72	101.94	Shut-In(1)
74	485.53	102.58	End Shut-In(1)
75	34.47	102.42	Open To Flow (2)
106	42.57	102.83	Shut-In(2)
151	534.73	103.51	End Shut-In(2)
153	1614.04	104.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	HOCGM g=10% o=30% m=60%	0.98

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

11-15s-19w Ellis,KS
Bixenman #1
Job Ticket: 47916 **DST#: 1**
Test Start: 2012.08.18 @ 14:45:05

Tool Information

Drill Pipe:	Length: 3342.00 ft	Diameter: 3.80 inches	Volume: 46.88 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	42000.00 lb
			<u>Total Volume: 46.88 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	37000.00 lb
Depth to Top Packer:	3332.00 ft			Final	38000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	50.00 ft				
Tool Length:	70.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3313.00	
Shut In Tool	5.00			3318.00	
Hydraulic tool	5.00			3323.00	
Packer	5.00			3328.00	20.00 Bottom Of Top Packer
Packer	4.00			3332.00	
Stubb	1.00			3333.00	
Perforations	5.00			3338.00	
Change Over Sub	1.00			3339.00	
Recorder	0.00	8017	Inside	3339.00	
Recorder	0.00	8372	Outside	3339.00	
Drill Pipe	32.00			3371.00	
Change Over Sub	1.00			3372.00	
Perforations	7.00			3379.00	
Bullnose	3.00			3382.00	50.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc. **11-15s-19w Ellis,KS**
 1310 Bison Rd **Bixenman #1**
 Hays KS 67601 Job Ticket: 47916 **DST#: 1**
 ATTN: Herb Deines Test Start: 2012.08.18 @ 14:45:05

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: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.17 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7300.00 ppm			
Filter Cake: inches			

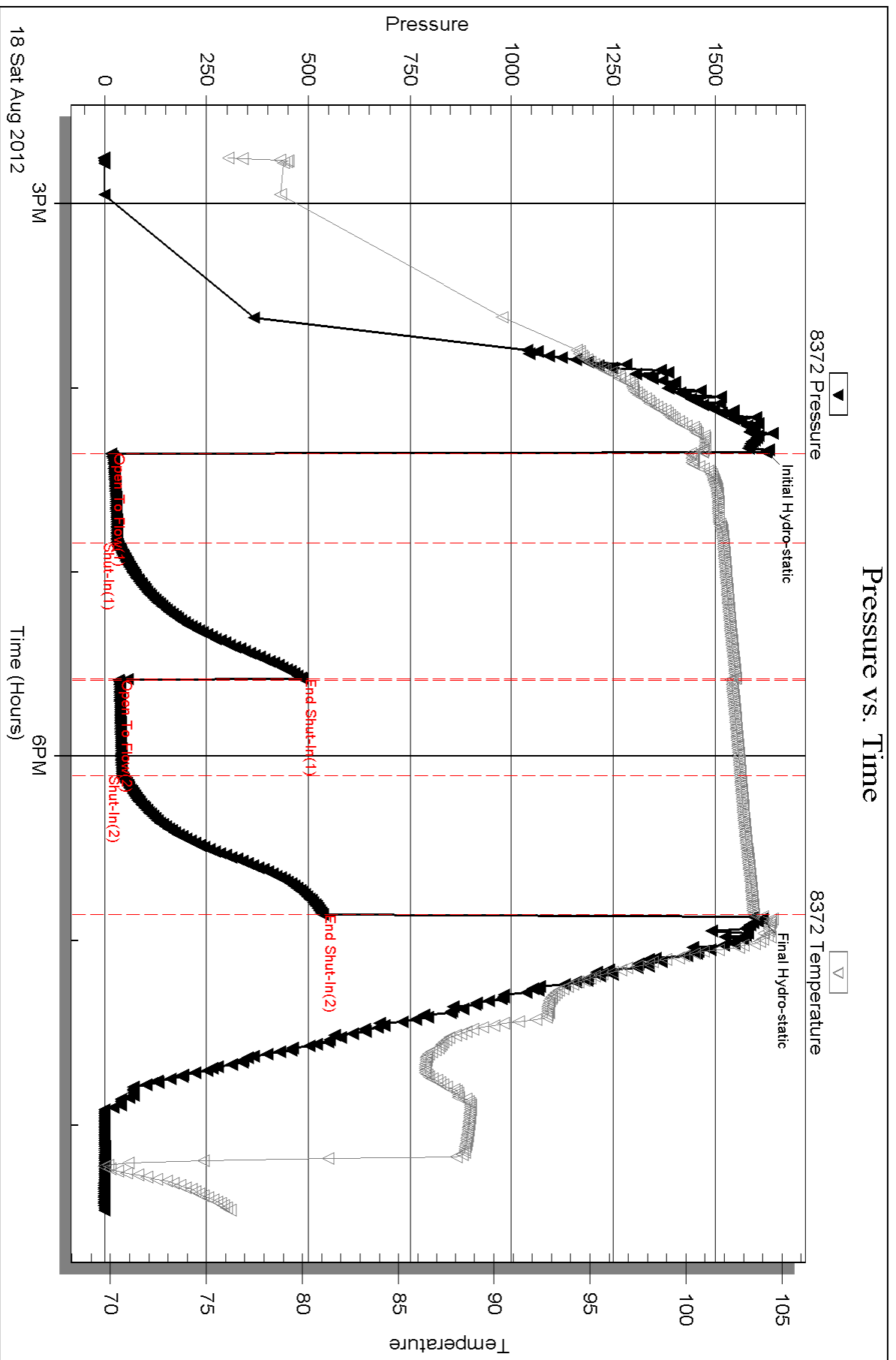
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	HOCGM g=10% o=30% m=60%	0.982

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:

Pressure vs. Time



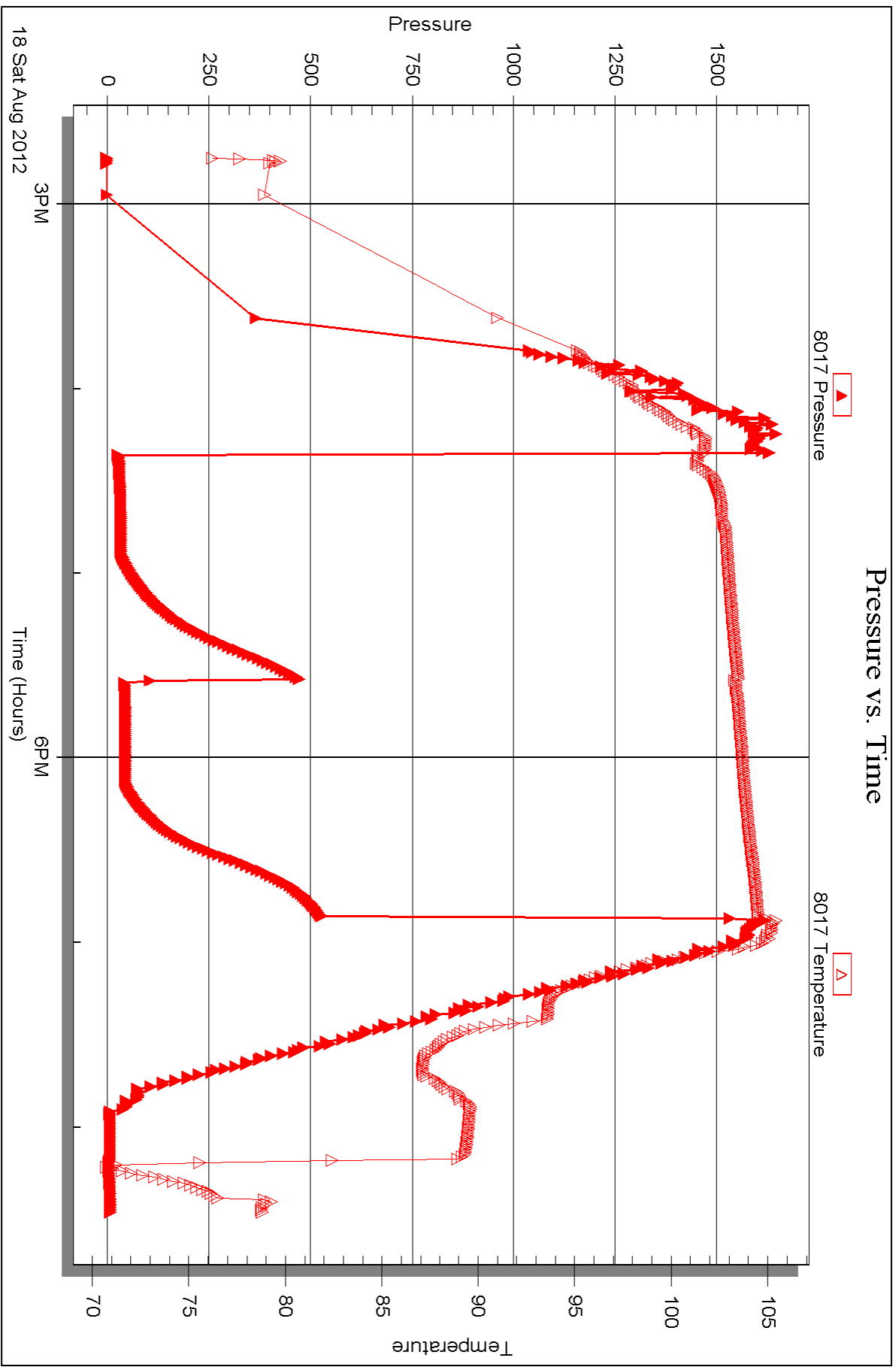
Serial #: 8017

Inside

TDI Inc.

Bixenman #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Rd
Hays KS 67601

ATTN: Herb Deines

Bixenman #1

11-15s-19w Ellis,KS

Start Date: 2012.08.19 @ 14:07:05

End Date: 2012.08.19 @ 20:19:50

Job Ticket #: 47917 DST #: 2

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

Printed: 2012.08.27 @ 11:13:46

TDI Inc. 11-15s-19w Ellis,KS Bixenman #1 DST # 2 LKC-"H-J" 2012.08.19



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

11-15s-19w Ellis,KS
Bixenman #1
Job Ticket: 47917 **DST#: 2**
Test Start: 2012.08.19 @ 14:07:05

Tool Information

Drill Pipe:	Length: 3439.00 ft	Diameter: 3.80 inches	Volume: 48.24 bbl	Tool Weight:	2000.00 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:	44000.00 lb
			<u>Total Volume: 48.24 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	39000.00 lb
Depth to Top Packer:	3450.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	85.00 ft				
Tool Length:	105.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3431.00	
Shut In Tool	5.00			3436.00	
Hydraulic tool	5.00			3441.00	
Packer	5.00			3446.00	20.00 Bottom Of Top Packer
Packer	4.00			3450.00	
Stubb	1.00			3451.00	
Perforations	5.00			3456.00	
Change Over Sub	1.00			3457.00	
Recorder	0.00	8017	Inside	3457.00	
Recorder	0.00	8372	Outside	3457.00	
Drill Pipe	63.00			3520.00	
Change Over Sub	1.00			3521.00	
Perforations	11.00			3532.00	
Bullnose	3.00			3535.00	85.00 Bottom Packers & Anchor

Total Tool Length: 105.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc. **11-15s-19w Ellis,KS**
 1310 Bison Rd **Bixenman #1**
 Hays KS 67601 Job Ticket: 47917 **DST#: 2**
 ATTN: Herb Deines Test Start: 2012.08.19 @ 14:07:05

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: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.15 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7300.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	CO	0.014
69.00	SOCM o=5% m=95%	0.968

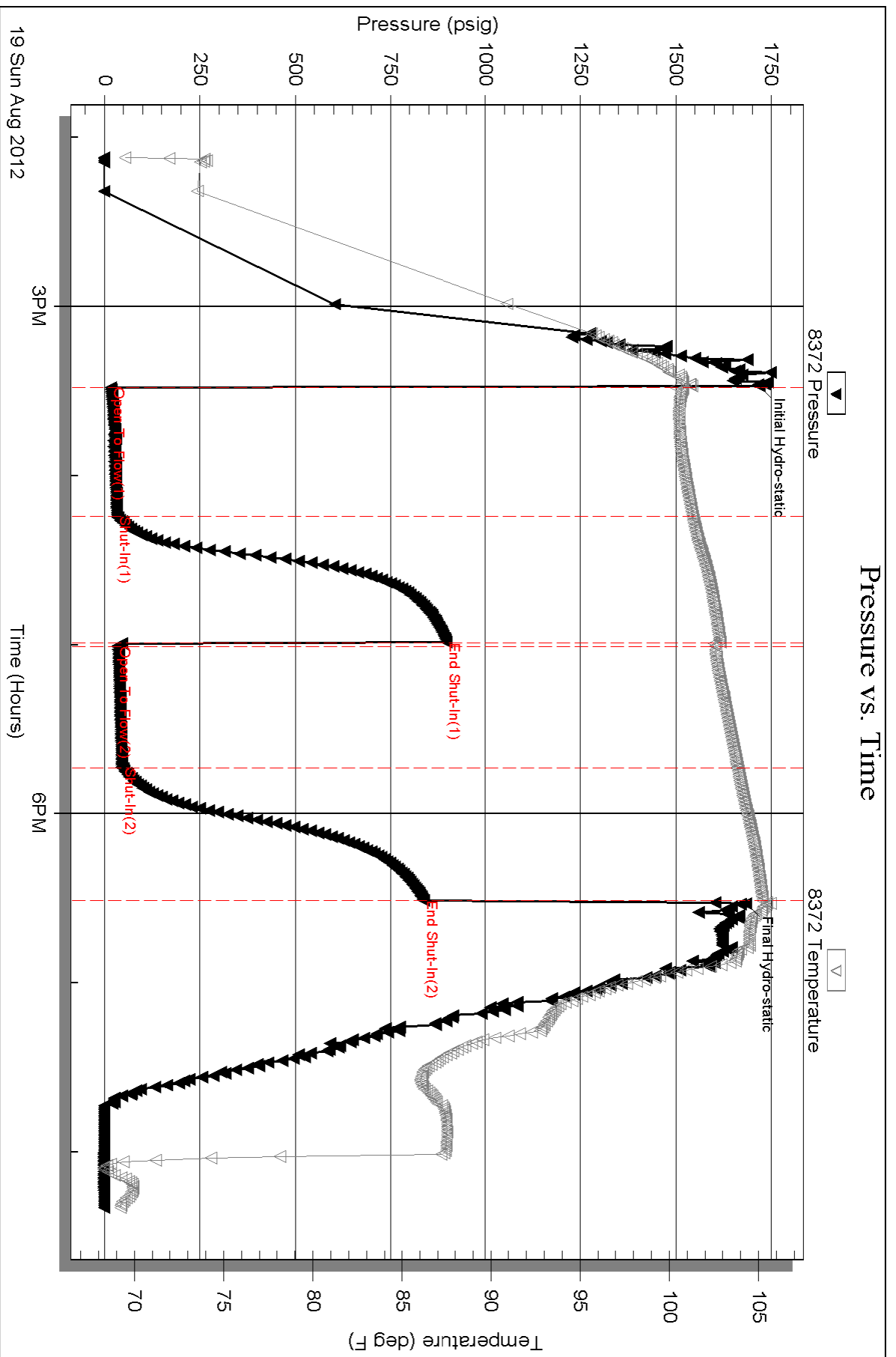
Total Length: 70.00 ft Total Volume: 0.982 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 8372

Outside TDI Inc.

Bixenman #1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 47917

Printed: 2012.08.27 @ 11:13:51

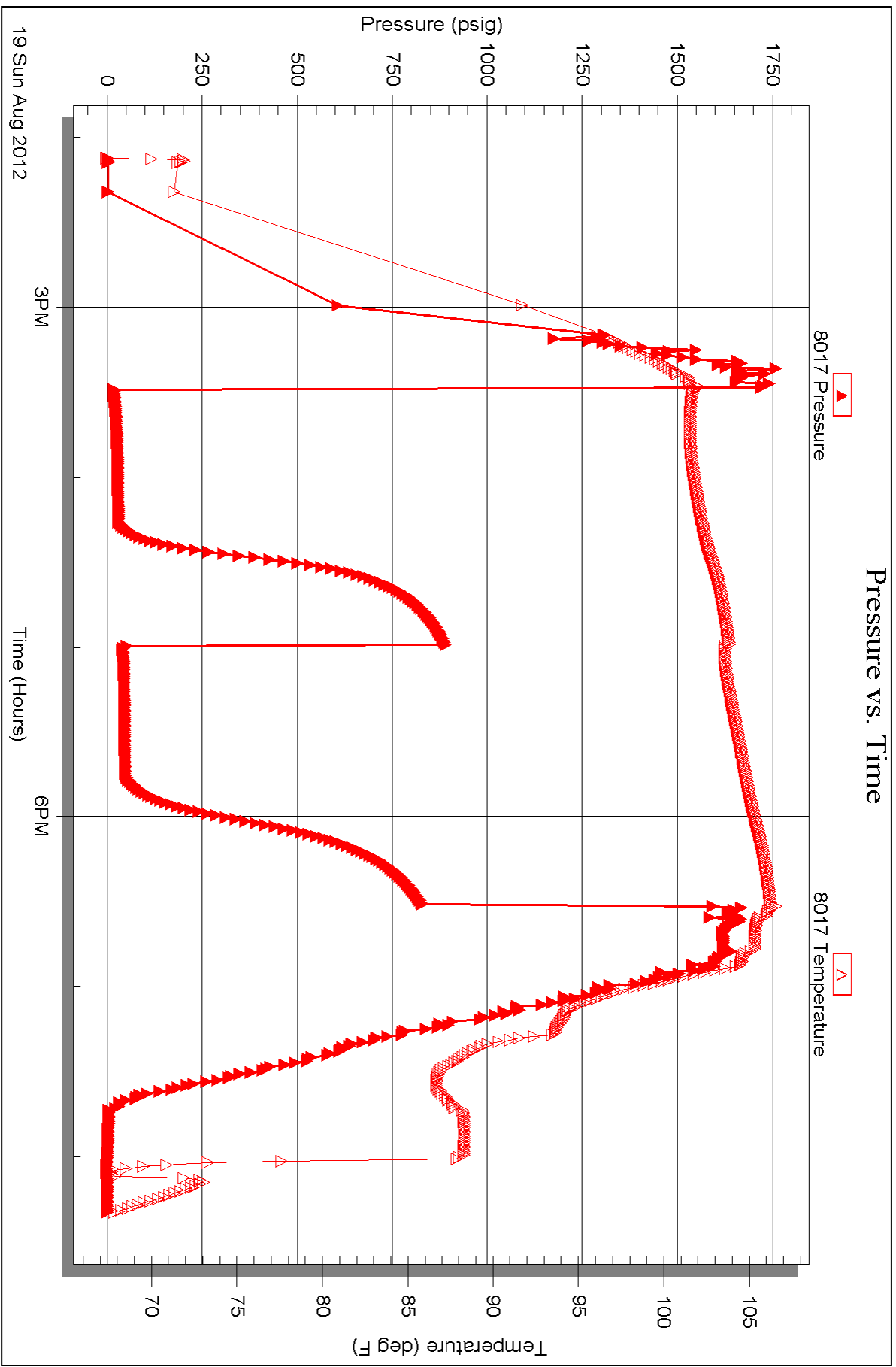
Serial #: 8017

Inside

TDI Inc.

Bixeman #1

DST Test Number: 2





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47916

Well Name & No. BIXENMAN #1 Test No. 1 Date 8-18-12
 Company TDI Elevation 2065 KB 2058 GL
 Address 1310 BISON RD HAYS KS 67601
 Co. Rep / Geo. Herb Deines Rig Southwind #4
 Location: Sec. 11 Twp. 15 Rge. 19W Co. Ellis State Ks

Interval Tested 3332-3382 Zone Tested LKC "A,B,C"
 Anchor Length 50 Drill Pipe Run 3342 Mud Wt. 9.1
 Top Packer Depth 3327 Drill Collars Run 0 Vis 58
 Bottom Packer Depth 3332 Wt. Pipe Run 0 WL 9.2
 Total Depth 3382 Chlorides 7300 ppm System LCM 3#

Blow Description 5" blow in 15 min. 8" in 28 min
ESP: NO RETURN
FP: BOB, 30 sec.
ESP: NO RETURN

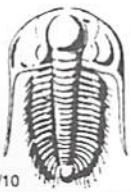
Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>HOCBM</u>	<u>10</u>	<u>30</u>	<u>60</u>	
<u>315</u>	<u>BIP</u>				

Rec Total 70' BHT 1030 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1625</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>13:40</u>
(B) First Initial Flow <u>16</u>	<input type="checkbox"/> Jars _____	T-Started <u>14:45</u>
(C) First Final Flow <u>30</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>16:20</u>
(D) Initial Shut-In <u>485</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>18:50</u>
(E) Second Initial Flow <u>34</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>20:28</u>
(F) Second Final Flow <u>42</u>	<input checked="" type="checkbox"/> Mileage <u>28RT</u> 43.40	Comments _____
(G) Final Shut-In <u>534</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1614</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1193.40</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1193.40</u>	

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47917

Well Name & No. BIXENMAN #1 Test No. 2 Date 8-19-12
 Company TDS Elevation 2065 KB 2058 GL
 Address 1310 BISON RD Hays KS 67601
 Co. Rep / Geo. HERB DEINES Rig SOUTHWIND #4
 Location: Sec. 11 Twp. 15 Rge. 19W Co. ELLIS State KS

Interval Tested 3450-3535 Zone Tested LKC^uH I J^u
 Anchor Length 85 Drill Pipe Run 3439 Mud Wt. 9.1
 Top Packer Depth 3445 Drill Collars Run 0 Vis 58
 Bottom Packer Depth 3450 Wt. Pipe Run 0 WL 9.2
 Total Depth 3535 Chlorides 73000 ppm System LCM 3H

Blow Description FP: 1" blow in 9min.
ISF: NO RETURN
FP: 1" blow in 2min. 2" in 13min. DECREASED to 1"
FSL: NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>oil</u>		<u>100</u>		
<u>69</u>	<u>50cm</u>		<u>5</u>		<u>95</u>

Rec Total 70 BHT 105 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1715 Test 1150 T-On Location 13:35
 (B) First Initial Flow 16 Jars T-Started 14:07
 (C) First Final Flow 32 Safety Joint T-Open 15:29
 (D) Initial Shut-In 899 Circ Sub T-Pulled 18:29
 (E) Second Initial Flow 33 Hourly Standby T-Out 20:20
 (F) Second Final Flow 45 Mileage ← 28RT 43.40 Comments _____
 (G) Final Shut-In 836 Sampler _____
 (H) Final Hydrostatic 1684 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

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

Sub Total 1193.40

MP/DST Disc't _____

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.

OPERATOR

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

Contact Geologist: TOM DENNING
 Contact Phone Nbr: 785-259-3141
 Well Name: BIXENMAN # 1
 Location: NE NW SW NE Sec.11-15s-19w
 Pool: WILDCAT
 State: KANSAS

API: 15-051-26,309-00-00
 Field: UNNAMED
 Country: USA



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

Scale 1:240 Imperial

Well Name: BIXENMAN # 1
 Surface Location: NE NW SW NE Sec.11-15s-19w
 Bottom Location:
 API: 15-051-26,309-00-00
 License Number: 4787
 Spud Date: 8/13/2012
 Region: ELLIS COUNTY
 Drilling Completed: 8/20/2012
 Surface Coordinates: 1340' FNL & 2005' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2058.00ft
 K.B. Elevation: 2065.00ft
 Logged Interval: 2900.00ft
 Total Depth: 3750.00ft
 Formation: LANSING-KANSAS CITY
 Drilling Fluid Type: FRESH WATER GEL/CHEMICAL

Time: 8:00 PM
 Time: 11:44 AM
 To: 3750.00ft

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 1340' FNL
 E/W Co-ord: 2005' FEL

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 #: 4
 Rig Type: MUD ROTARY

Rig Type: MUD ROTARY
Spud Date: 8/13/2012
TD Date: 8/20/2012
Rig Release: 8/21/2012

Time: 8:00 PM
Time: 11:44 AM
Time: 1:00 PM

ELEVATIONS

K.B. Elevation: 2065.00ft
K.B. to Ground: 7.00ft

Ground Elevation: 2058.00ft

NOTES

RECOMMENDATION TO RUN PRODUCTION CASING BASED ON NUMEROUS SHOWS OF OIL IN LANSING-KANSAS CITY CARBONATE BENCHES AND HIGH STRUCTURAL POSITION OF WELL TO OFFSET PRODUCERS.

PIONEER ENERGY SERVICES RAN DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG AND MICRORESISTIVITY LOG

FORMATION TOPS SUMMARY AND CHRONOLOGY OF DAILY DEPTH AND ACTIVITY

BIXENMAN # 1
1340' FNL & 2005' FEL, NE/4
Sec.11-15s-19w
2058' GL 2065' KB


<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>LOG TOPS</u>
Anhydrite	1267+ 798	1265+ 800
B-Anhydrite	1301+ 764	1304+ 761
Topeka	3024- 959	3024- 959
Heebner Shale	3299-1234	3298-1233
Toronto	3323-1258	3317-1252
LKC	3344-1279	3345-1280
BKC	3587-1522	3591-1526
Conglomerate Sand		3672-1607
Arbuckle		3689-1624
RTD	3750-1685	
LTD		3753-1688

SUMMARY OF DAILY ACTIVITY

8-13-12 RU, Spud late in day, rig repairs
8-14-12 212' set 8 5/8" surface casing to 211' w/150 sacks of Common, 2%Gel, 3% CC, plug down 9:15 AM, WOC 8 hours, slope 3/4 degree .
8-15-12 1074', drilling

- 8-16-12 2060', drilling
- 8-17-12 2800', drilling
- 8-18-12 3351', drilling, DST # 1, 3332'-3382'
- 8-19-12 3458', drilling, DST # 2 3450' to 3535'
- 8-20-12 3658', drilling, RTD 3750, logs, run production casing
- 8-21-12 3750', finish running casing, cement casing and top stage.

DST # 1 TEST SUMMARY

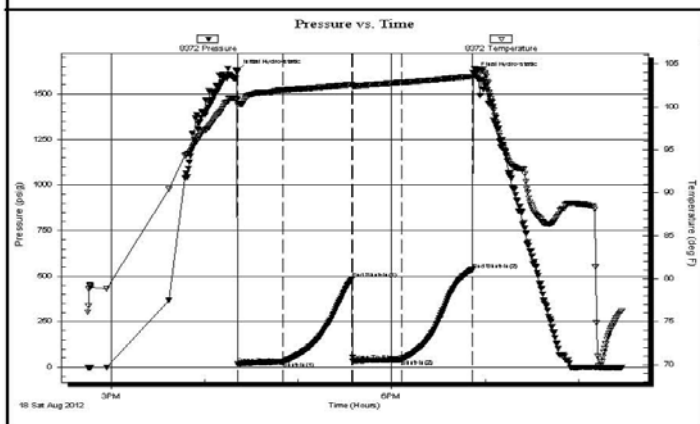
 TRILOBITE TESTING, INC	DRILL STEM TEST REPORT		
	TDI inc. 1310 Bison Rd Hays Ks. 67601 ATTN: Herb Deines	11-15-19w Ellis Bixenman #1 Job Ticket: 47916 DST#: 1 Test Start: 2012.08.18 @ 14:45:05	

GENERAL INFORMATION:

Formation: LKC"A,B,C"	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock ft (KB)	Tester: Andy Carreira
Time Tool Opened: 16:21:20	Unit No: 39
Time Test Ended: 20:27:50	
Interval: 3332.00 ft (KB) To 3382.00 ft (KB) (TVD)	Reference Elevations: 2065.00 ft (KB)
Total Depth: 3382.00 ft (KB) (TVD)	2058.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair	KB to GR/CF: 7.00 ft

Serial #: 8372 Outside	Capacity: 8000.00 psig
Press@RunDepth: 42.57 psig @ 3339.00 ft (KB)	Last Calib.: 2012.08.18
Start Date: 2012.08.18 End Date: 2012.08.18	Time On Btm: 2012.08.18 @ 16:20:30
Start Time: 14:45:05 End Time: 20:27:50	Time Off Btm: 2012.08.18 @ 18:53:00

TEST COMMENT: IF:(30min) 5" blow in 15 min. 8" in 20 min.
 ISl:(45min) No Return
 FF:(30min) BOB, 30 sec.
 FSl:(45min) No Return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1625.36	100.89	Initial Hydro-static
1	16.60	100.23	Open To Flow (1)
30	30.72	101.94	Shut-In(1)
74	485.53	102.58	End Shut-In(1)
75	34.47	102.42	Open To Flow (2)
106	42.57	102.83	Shut-In(2)
151	534.73	103.51	End Shut-In(2)
153	1614.04	104.48	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
70.00	HOCGM g=10% o=30% m=60%	0.98

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

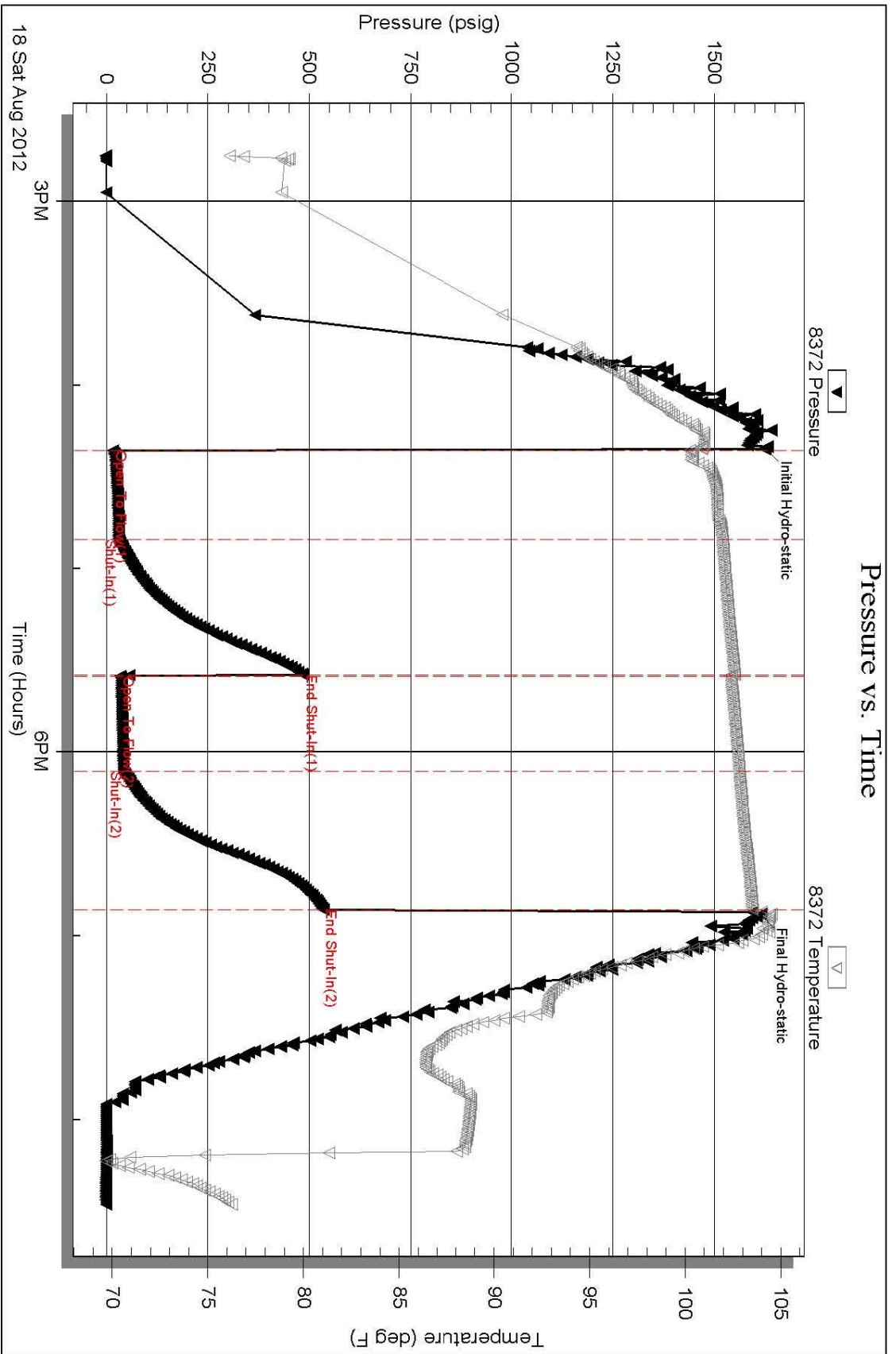
DST # 1 EXPANDED CHART

Serial #: 8372

Outside TDI Inc.

Bixennan #1

DST Test Number: 1


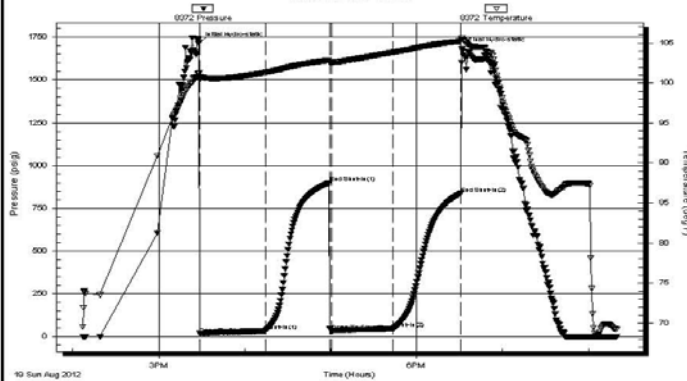


Trilobite Testing, Inc

Ref. No: 47916

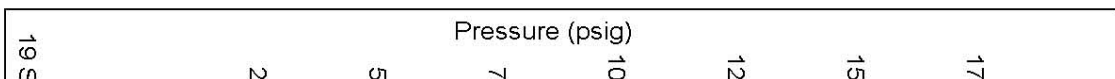
Printed: 2012.08.19 @ 00:07:13

DST # 2 TEST SUMMARY

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT																																						
TDI inc. 1310 Bison Rd Hays Ks. 67601 ATTN: Herb Deines	11-15-19w Ellis Bixenman #1 Job Ticket: 47917 DST#: 2 Test Start: 2012.08.19 @ 14:07:05																																						
GENERAL INFORMATION:																																							
Formation: LKC"H,I,J" Deviated: No Whipstock: ft (KB) Time Tool Opened: 15:28:30 Time Test Ended: 20:19:50		Test Type: Conventional Bottom Hole (Reset) Tester: Andy Carreira Unit No: 39																																					
Interval: 3450.00 ft (KB) To 3535.00 ft (KB) (TVD) Total Depth: 3535.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair		Reference Elevations: 2065.00 ft (KB) 2058.00 ft (CF) KB to GR/CF: 7.00 ft																																					
Serial #: 8372 Outside																																							
Press@RunDepth: 45.77 psig @ 3457.00 ft (KB) Start Date: 2012.08.19 End Date: 2012.08.19 Start Time: 14:07:05 End Time: 20:19:50		Capacity: 8000.00 psig Last Calib.: 2012.08.19 Time On Btm: 2012.08.19 @ 15:27:40 Time Off Btm: 2012.08.19 @ 18:31:39																																					
TEST COMMENT: IF:(45min) 1" blow in 9 min. ISl:(45min) No Return FF:(45min) 1" blow in 2 min. 2" in 13 min. Decreased to 1" FSl:(45min) No Return																																							
Pressure vs. Time		PRESSURE SUMMARY																																					
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Time (Min.)</th> <th>Pressure (psig)</th> <th>Temp (deg F)</th> <th>Annotation</th> </tr> </thead> <tbody> <tr><td>0</td><td>1715.56</td><td>101.18</td><td>Initial Hydro-static</td></tr> <tr><td>1</td><td>16.32</td><td>100.35</td><td>Open To Flow (1)</td></tr> <tr><td>47</td><td>32.84</td><td>101.30</td><td>Shut-In(1)</td></tr> <tr><td>92</td><td>899.11</td><td>102.84</td><td>End Shut-In(1)</td></tr> <tr><td>93</td><td>33.37</td><td>102.59</td><td>Open To Flow (2)</td></tr> <tr><td>136</td><td>45.77</td><td>103.81</td><td>Shut-In(2)</td></tr> <tr><td>184</td><td>836.70</td><td>105.23</td><td>End Shut-In(2)</td></tr> <tr><td>184</td><td>1684.41</td><td>105.65</td><td>Final Hydro-static</td></tr> </tbody> </table>		Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	1715.56	101.18	Initial Hydro-static	1	16.32	100.35	Open To Flow (1)	47	32.84	101.30	Shut-In(1)	92	899.11	102.84	End Shut-In(1)	93	33.37	102.59	Open To Flow (2)	136	45.77	103.81	Shut-In(2)	184	836.70	105.23	End Shut-In(2)	184	1684.41	105.65	Final Hydro-static
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Trilobite Testing, Inc		Ref. No: 47917																																					
		Printed: 2012.08.19 @ 23:00:55																																					

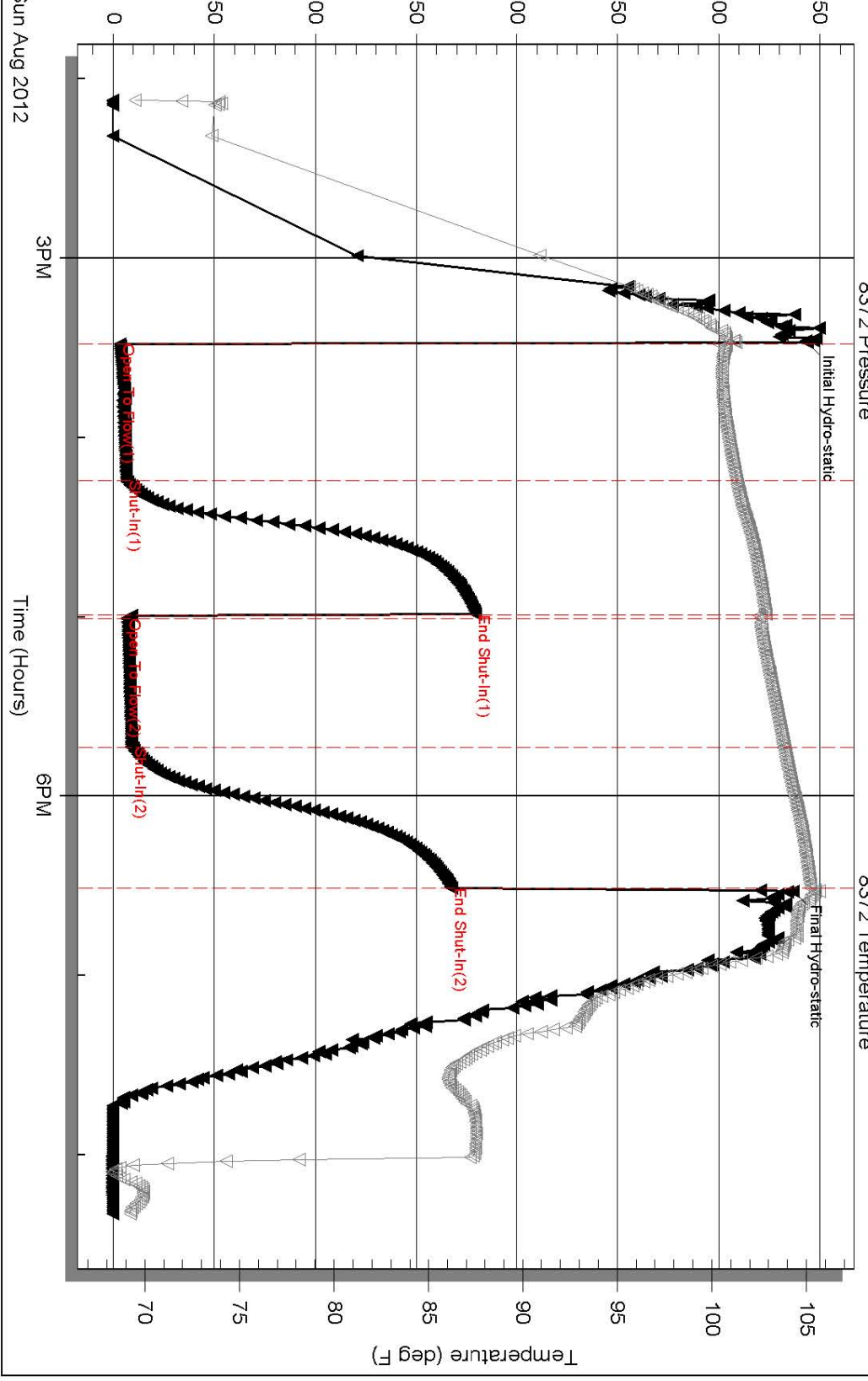
DST # 2 EXPANDED CHART

Trilobite



Serial:

Pressure vs. Time



ROCK TYPES

- | | | | | | | | |
|--|----------|--|------------|--|------------|--|----------|
| | Cht | | Lmst fw<7 | | shale, gry | | Shcol |
| | Cht vari | | Lmst fw>7 | | Carbon Sh | | Ss |
| | Dolprim | | shale, grn | | shale, red | | Dol Lime |

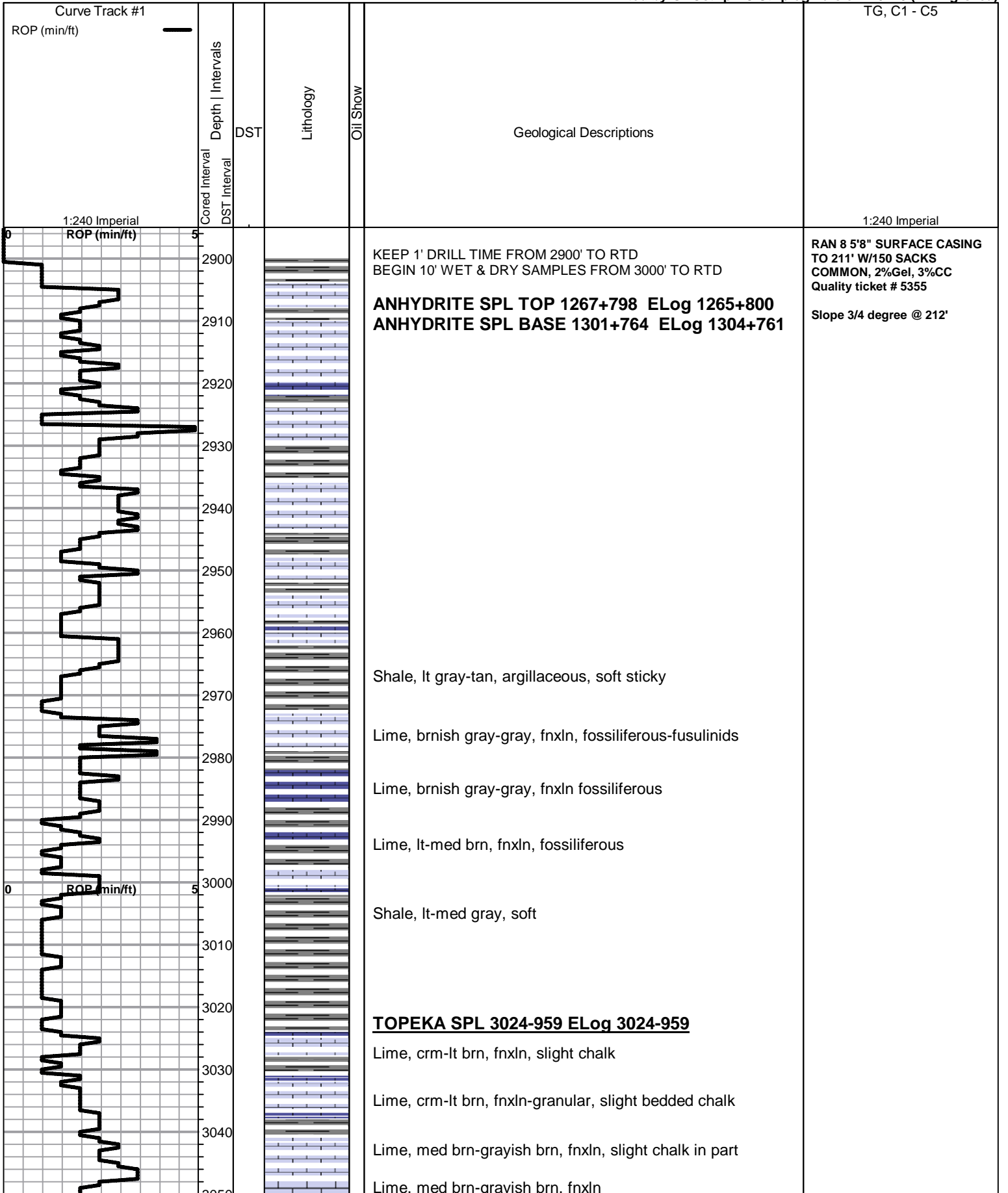
ACCESSORIES

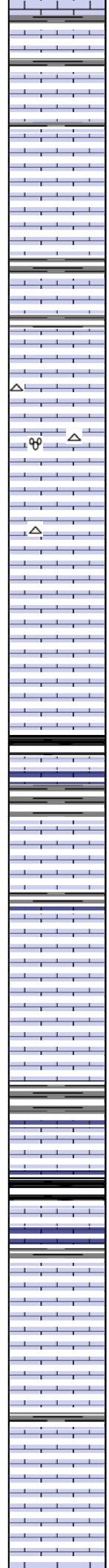
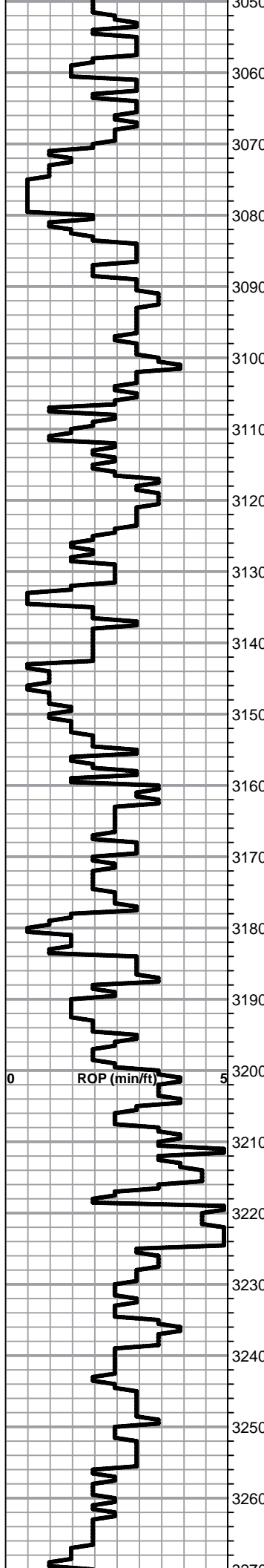
- | | |
|----------------|----------------|
| MINERAL | FOSSIL |
| P Pyrite | ⊕ Foraminifera |
| △ Chert White | ⊕ Calcite |

OTHER SYMBOLS

- DST
 ■ DST Int
 ■ DST alt
 ■ Core

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





Lime, med brn-grayish brn, fnxln

Lime, crm-lt brn-gray, fnxln

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

Lime, crm-brnish gray, fnxln-granular, crinoid fragments, NS

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

Shale, lt gray soft

Lime, lt-med brn, fnxln

Lime, lt-med brn-gray, fnxln, fusulinids, white chert, fresh

Lime, lt-med brn, fnxln, fusulinids

Lime, lt-med brn, fnxln

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

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

Shale, black carbonaceous

Lime, med brn, fnxln

Lime, brn, fnxln, fossiliferous

Lime, lt-med brn-grayish brn, fnxln-granular, NS

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

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

Shale, gray, calcareous

Lime, lt brn, fnxln

Shale, black carbonaceous
Lime, lt-med brn, fn-vfxln

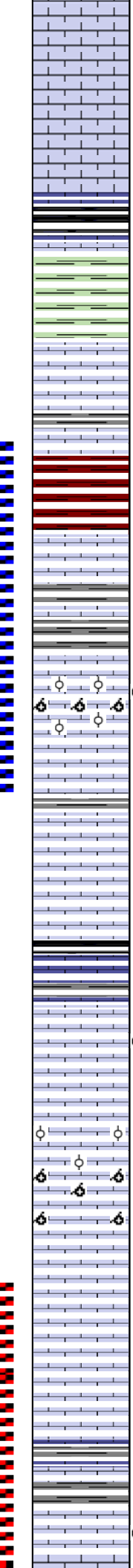
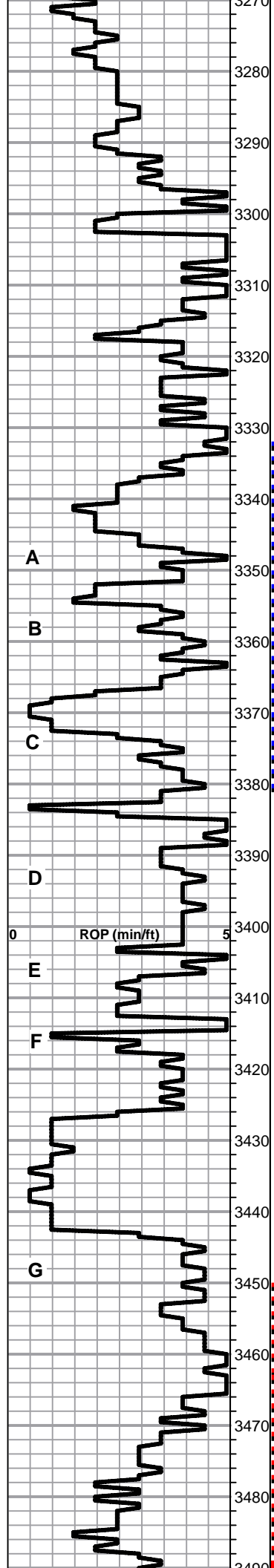
Lime, lt-med brn-grayish brn, fnxln

Lime, st-med brn, fnxln-granular in part, slightly fossiliferous

Lime, lt-med brn, fnxln

Lime, lt brn, fnxln

Lime, lt-med brn-grayish brn, fnxln, slightly cherty, brittle



Lime, lt-med brn, fnxln

Lime, lt-med brn, fnxln

HEEBNER SHALE SPL 3299-1234 ELog 3298-1233

Shale, black carbonaceous, fissile, blocky
Lime, med brn, fnxln

Shale, lt gray-lt green, soft blocky to soft mud

TORONTO SPL 3323-1258 ELog 3317-1252

Lime, crm, vfxln, bedded chalk, NS

Lime, crm, fnxln, white chalk wash

Shale, red wash grading into gray shale

LKC SPL 3344-1279 ELog 3345-1280

Lime, lt-med brn, fnxln, 2 chips with lt surface stain, no odor

Shale, dove gray-med gray, soft-soft mud balls

Lime, brnish gray, fnxln

Lime, lt brn, oolitic/oomoldic, scattered to saturated staining, scattered vugs, lt gsy oil show, fair-good odor.

Lime, lt-med brn, fnxln, slightly chalky

Lime, lt-med brn, fnxln

Lime, crm-offwhite, fnxln, NS

Shale, gray-black carbonaceous
Lime, lt brn, fnxln

Lime, lt brn, fnxln with few chips with fine intercrystalline porosity with scattered to saturated stain, very lt odor with light halo wet cut

Lime, crm-offwhite, fnxln with bedded chalk

Lime, crm-tan, granular with chalk, few pieces of oolitic-oomoldic, barren

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

Lime, crm-lt brn, fnxln with bedded chalk in part

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

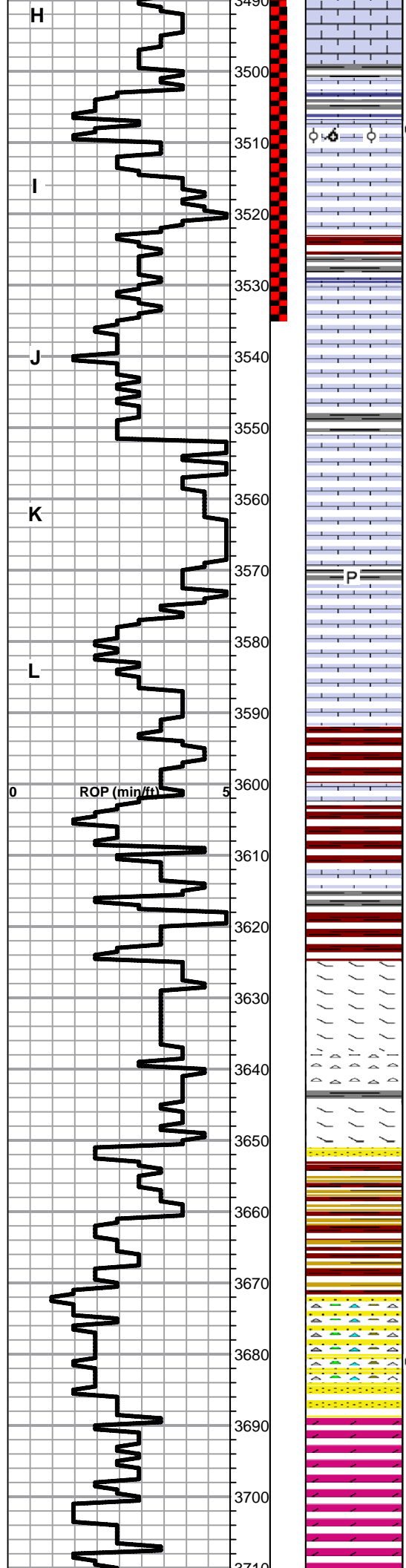
Lime, lt brn-lt gray, fn-vfxln

Shale, dove gray, soft mud to medium gray, soft blocky

Lime, lt brn, fnxln, few chips with fine intercrystalline porosity light staining, NFO, lt odor.

DST # 1 3332' TO 3382'
SEE HEADER FOR TEST SUMMARY

DST # 2 3450' to 3535'
SEE HEADER FOR TEST SUMMARY



Lime, lt brn, fn-vfxln

Shale, lt-med gray, soft, blocky

Lime, crm-lt brn, fnxln with few chips oolitic with scattered staining with light odor

Lime, crm, fn-vfxln, chalk in part

Shale, lt red wash grading into gray, soft, blocky

Lime, crm-tan, fnxln, bedded chalk in part

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

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

Shale, med gray, pyritic clusters

Lime, crm-tan, fnxln, chalky, NS

Lime, crm-tan, fnxln, chalky

BKC SPL 3587-1522 ELog 3591-1526

Shale, lt-med green-reddish brown, blocky

Shale, red wash, soft mud

Shale, dove gray-reddish brown, soft mud

Lime, crm-lt brn, dolomitic, fnxln

Lime, crm-lt brn,
Chert, crm, tan, orange, fresh, sharp

Lime, crm-lt brn with scattered chert

Sandstone, fine grained, poorly sorted with white clay in matrix, lt halo wet cut.

Shale, rewash with mix of vari colored shales

CONGLOMERATE SAND ELog 3672-1607

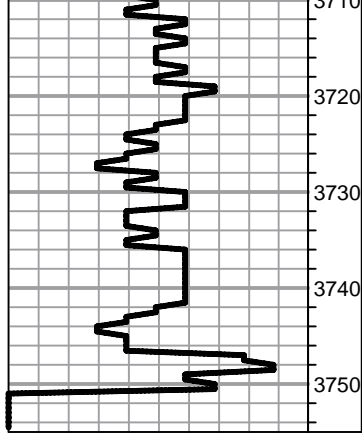
Mix of vari colored cherts and dirty looking sand grading into cleaner, well sorted, quartz sand near bottom of sequence, few clusters with lt gassy oil show

ARBUCKLE ELog 3689-1624

Dolomite, crm, fnxln with white sticky chalk in part

Dolomite, crm, fnxln-granular in part

Dolomite, crm, fnxln-granular in part

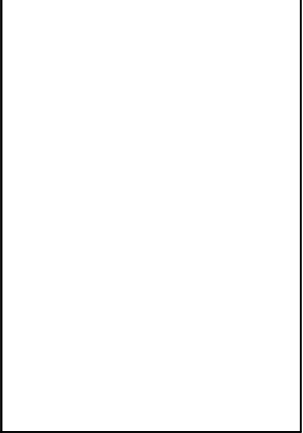


Dolomite, crm-ivory, fn-maxln, sucrosic in part

Dolomite, crm, fn-medxln, sucrosic in part

Dolomite, crm, fn-cxln, sucrosic in part

Dolomite, crm-lt brn, fnxln, hard on break



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

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

No. 5355

Date	8-14-12	Sec.	11	Twp.	15	Range	19	County	ELLIS	State	KS	On Location		Finish	9:00 AM
Lease	Bixeman			Well No.	#1			Location	Antinino 1/4 S West 1/2						
Contractor	Southwind Rig 4							Owner	ANTININO						
Type Job	Surface							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size	12 1/4			T.D.	2.11			Charge To	PP TDI						
Csg.	8 5/8			Depth	2.11			Street							
Tbg. Size				Depth				City	State						
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.	20ft			Shoe Joint	20ft			Cement Amount Ordered	150 3600 2% gel						
Meas Line				Displace	1 1/4										

EQUIPMENT

Pumptrk	9	No.	Cement	hatt	Common	150
			Helper			
Bulktrk	8	No.	Driver	Dave	Poz. Mix	
			Driver			
Bulktrk		No.	Driver	Cody	Gel.	3
			Driver			

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
	Sand
	Handling 158
	Mileage

Cement 7 did calculate

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Bixeman

Pumptrk Charge	Surface
Mileage	12

X Signature Brent Bobcock

Tax	
Discount	
Total Charge	

JOB LOG

SWIFT Services, Inc.

DATE 8-21-12 PAGE NO.

CUSTOMER TDI WELL NO. #1 LEASE Bixerman JOB TYPE 2-stage TICKET NO. 21744

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0430							on loc w/ FE
								RTD 3750'
								5 1/2" x 14" x 3746' x 42'
								Cent. 1, 3, 5, 7, 8, 10, 12, 5-8
								Back 2, 12, 5-9
								DV 59 @ 1217'
	0715							Start FE
	0900							Break Circ
	1000	5	0			150		Start Preflushes 500 gal Mud flush
		5	32/0			150		20 bbl KCL flush
	1015		36					Start 150 sks EA-2 EA-2 Cement
								End Cement
								Wash PTL
								Drop D Plug
	1020	6	0			150		Start Displacement
		5	70			250		Catch Cement / KCL in last 20 bbl
	1040		90.5			600/400		Land Plug
								Release Pressure / Float Held
								Drop Opening Plug
	1045	2.5	7/5					Plug RHMH
	1100					1100		Open DV
	1102	6	0			150		Start Cement
	1120		100			150		End Cement
								Drop Closing Plug
	1124	5	0			150		Start Displacement
	1125	5	5			200		Circulate Cement
	1130		29.5			450/400		Land Plug / Close DV Tool
								Release Pressure
								DV Closed
								Circ soaks to pit
								Thank you
								Nick, David E. & Son

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

October 22, 2012

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

Re: ACO1
API 15-051-26309-00-00
Bixenman 1
NE/4 Sec.11-15S-19W
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