



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

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



1098241

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

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

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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				

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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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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 (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	TDI, Inc.
Well Name	Orville 1
Doc ID	1098241

Tops

Name	Top	Datum
Anhydrite	1274'	+760'
Topeka	3008'	-974'
Heebner	3281'	-1247'
Lansing/Kansas City	3327'	-1293'
Base Kansas City	3579'	-1545'
Conglomerate	3660'	-1626'
Arbuckle	3678'	-1644'
Reagan Sand	3689'	-1655'



DRILL STEM TEST REPORT

Prepared For: **TDI, Inc.**

1310 Bison Rd.
Hays, KS 67601

ATTN: Herb Deines

Orville #1

7-15s-19w Ellis,KS

Start Date: 2012.08.27 @ 21:31:15

End Date: 2012.08.28 @ 02:45:45

Job Ticket #: 49490 DST #: 1

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

Printed: 2012.09.07 @ 16:35:01

TDI, Inc. 7-15s-19w Ellis,KS Orville #1 DST # 1 Topeka-Oread 2012.08.27



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

7-15s-19w Ellis, KS
Orville #1
 Job Ticket: 49490 **DST#: 1**
 Test Start: 2012.08.27 @ 21:31:15

GENERAL INFORMATION:

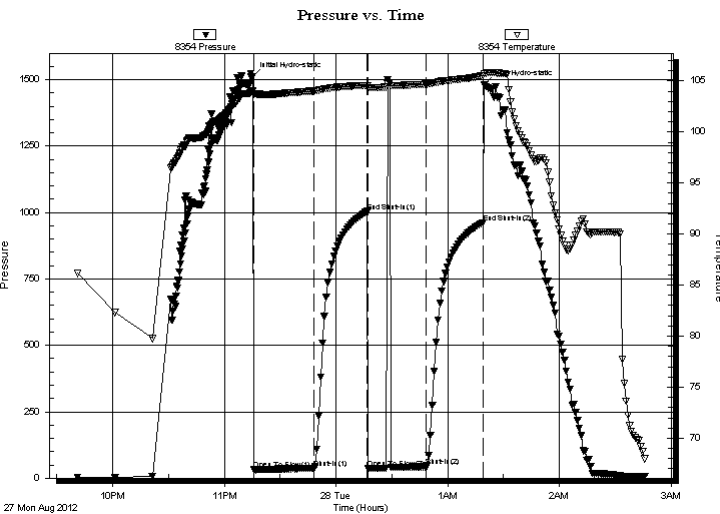
Formation: **Topeka-Oread**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:15:45
 Time Test Ended: 02:45:45
 Interval: **3188.00 ft (KB) To 3238.00 ft (KB) (TVD)**
 Total Depth: 3238.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Rash
 Unit No: 38
 Reference Elevations: 2034.00 ft (KB)
 2027.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 42.75 psig @ 3227.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.27 End Date: 2012.08.28 Last Calib.: 2012.08.28
 Start Time: 21:41:15 End Time: 02:45:45 Time On Btm: 2012.08.27 @ 23:15:25
 Time Off Btm: 2012.08.28 @ 01:19:45

TEST COMMENT: IF-Weak 1/2 inch blow throughout.
 IS-No Return.
 FF-No Blow . Flushed Tool. Weak surface blow . Died @ 11 minutes.
 FS-No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1512.71	104.03	Initial Hydro-static
1	32.67	103.73	Open To Flow (1)
33	36.68	104.02	Shut-In(1)
62	1004.15	104.58	End Shut-In(1)
62	36.75	104.21	Open To Flow (2)
93	42.75	104.69	Shut-In(2)
124	961.34	105.51	End Shut-In(2)
125	1480.05	105.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	100%Mud	0.56

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

7-15s-19w Ellis, KS
Orville #1
Job Ticket: 49490 **DST#: 1**
Test Start: 2012.08.27 @ 21:31:15

Tool Information

Drill Pipe:	Length: 3178.00 ft	Diameter: 3.80 inches	Volume: 44.58 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:	15000.00 lb
			<u>Total Volume: 44.58 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	30000.00 lb
Depth to Top Packer:	3188.00 ft			Final	30000.00 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			3169.00	
Shut In Tool	5.00			3174.00	
Hydraulic tool	5.00			3179.00	
Packer	5.00			3184.00	20.00 Bottom Of Top Packer
Packer	4.00			3188.00	
Stubb	1.00			3189.00	
Perforations	5.00			3194.00	
Change Over Sub	1.00			3195.00	
Drill Pipe	31.00			3226.00	
Change Over Sub	1.00			3227.00	
Recorder	0.00	8354	Inside	3227.00	
Recorder	0.00	8520	Outside	3227.00	
Perforations	8.00			3235.00	
Bullnose	3.00			3238.00	50.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

7-15s-19w Ellis,KS
Orville #1
Job Ticket: 49490 **DST#: 1**
Test Start: 2012.08.27 @ 21:31:15

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: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

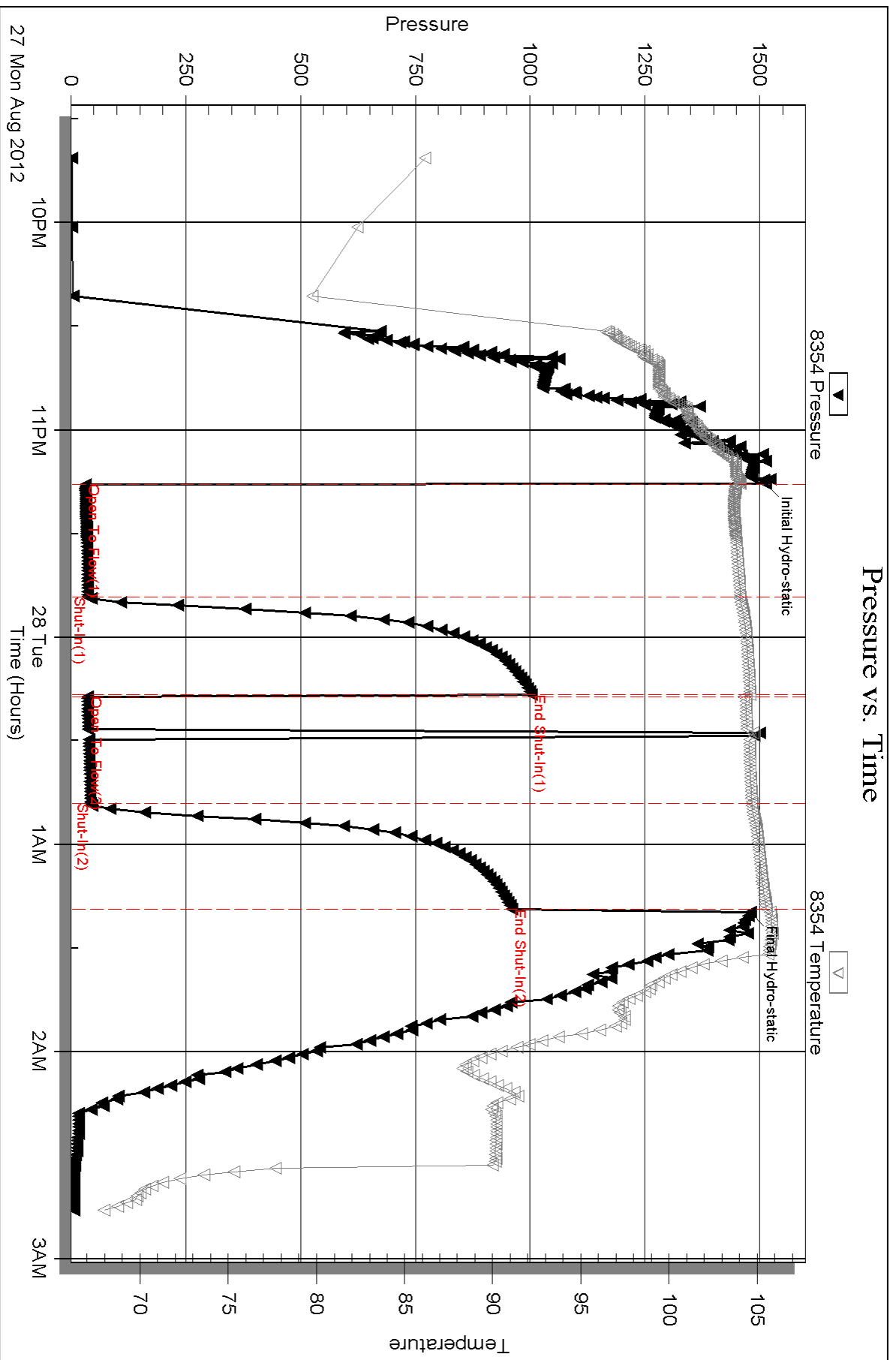
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	100%Mud	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time

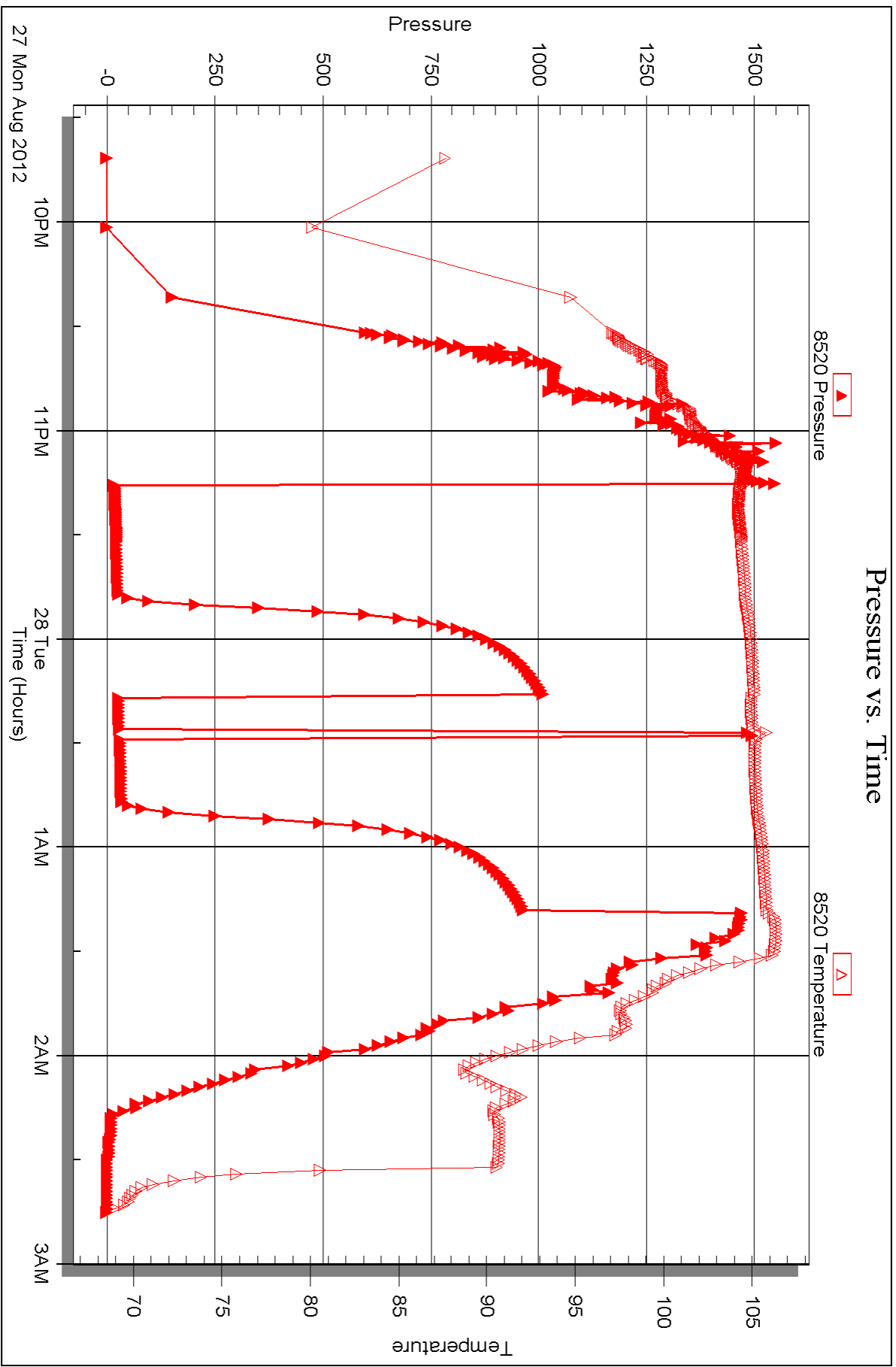


Serial #: 8520

Outside TDI, Inc.

Orville #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **TDI, Inc.**

1310 Bison Rd.
Hays, KS 67601

ATTN: Herb Deines

Orville #1

7-15s-19w Ellis,KS

Start Date: 2012.08.28 @ 12:48:30

End Date: 2012.08.28 @ 18:13:30

Job Ticket #: 49491 DST #: 2

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

Printed: 2012.09.07 @ 16:34:04

TDI, Inc. 7-15s-19w Ellis,KS Orville #1 DST # 2 LKC "A-C" 2012.08.28



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

7-15s-19w Ellis, KS
Orville #1
Job Ticket: 49491 **DST#: 2**
Test Start: 2012.08.28 @ 12:48:30

Tool Information

Drill Pipe:	Length: 3332.00 ft	Diameter: 3.80 inches	Volume: 46.74 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:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	5000.00 lb
			<u>Total Volume: 46.74 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial	30000.00 lb
Depth to Top Packer:	3319.00 ft			Final	30000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	51.00 ft				
Tool Length:	71.00 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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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3300.00	
Shut In Tool	5.00			3305.00	
Hydraulic tool	5.00			3310.00	
Packer	5.00			3315.00	20.00 Bottom Of Top Packer
Packer	4.00			3319.00	
Stubb	1.00			3320.00	
Perforations	5.00			3325.00	
Change Over Sub	1.00			3326.00	
Drill Pipe	31.00			3357.00	
Change Over Sub	1.00			3358.00	
Recorder	0.00	8354	Inside	3358.00	
Recorder	0.00	8520	Outside	3358.00	
Perforations	9.00			3367.00	
Bullnose	3.00			3370.00	51.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

7-15s-19w Ellis,KS
Orville #1
Job Ticket: 49491 **DST#: 2**
Test Start: 2012.08.28 @ 12:48:30

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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3600.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	100%Mud	0.491

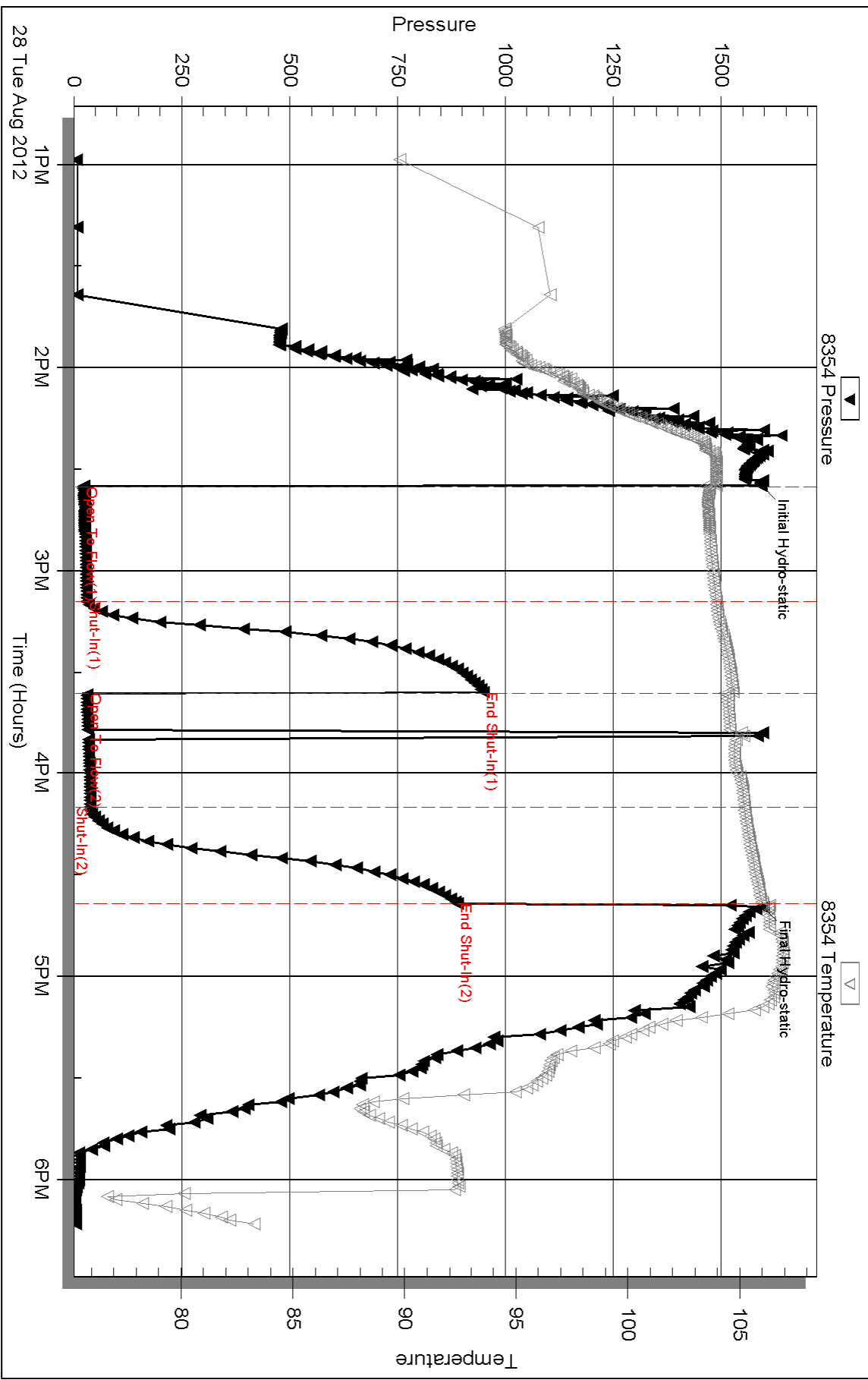
Total Length: 35.00 ft Total Volume: 0.491 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

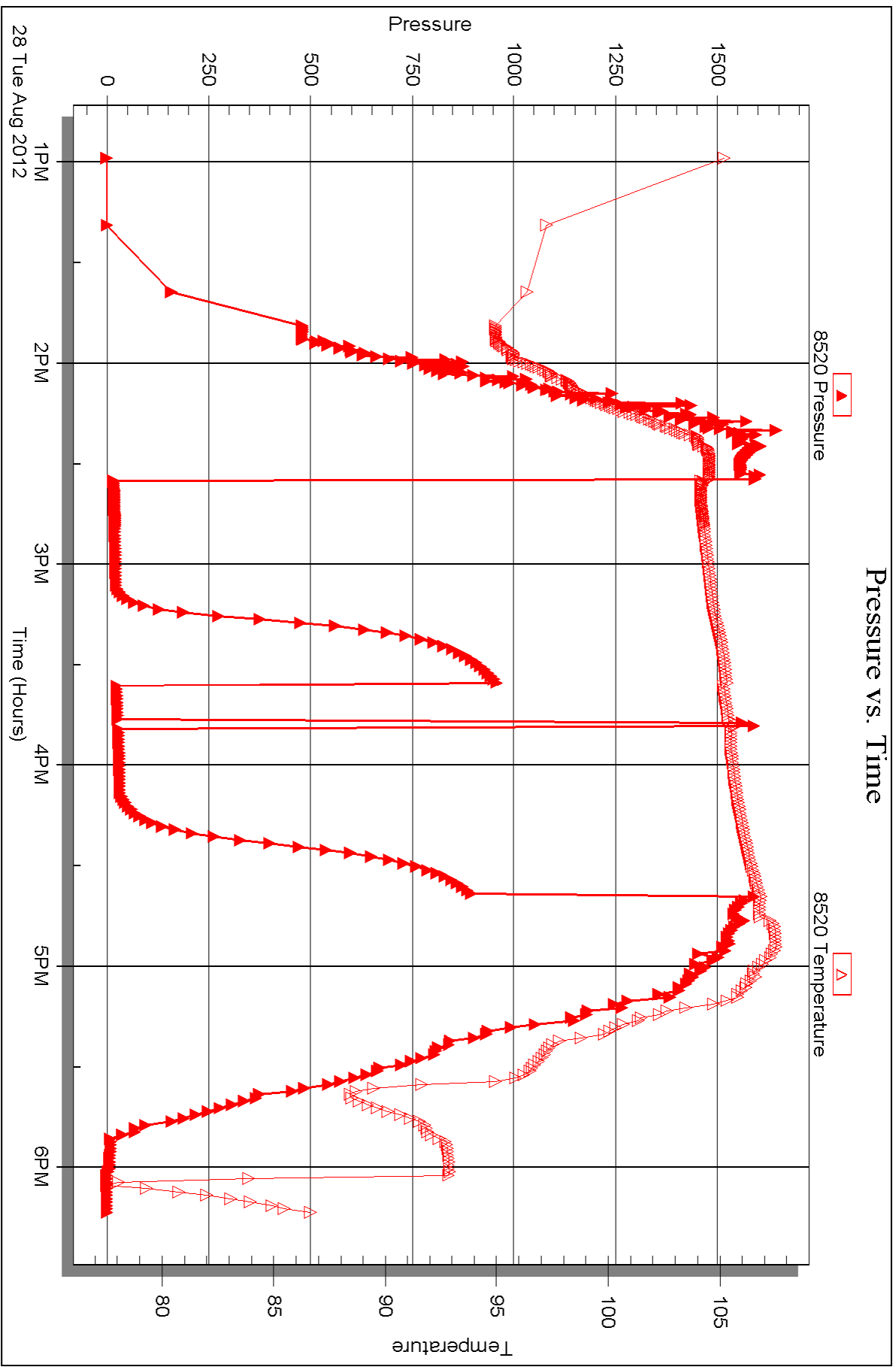


Serial #: 8520

Outside TDI, Inc.

Orville #1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 49491

Printed: 2012.09.07 @ 16:34:09



DRILL STEM TEST REPORT

Prepared For: **TDI, Inc.**

1310 Bison Rd.
Hays, KS 67601

ATTN: Herb Deines

Orville #1

7-15s-19w Ellis,KS

Start Date: 2012.08.30 @ 01:45:15

End Date: 2012.08.30 @ 07:23:15

Job Ticket #: 49492 DST #: 3

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

Printed: 2012.09.07 @ 16:33:21

TDI, Inc.
7-15s-19w Ellis,KS
Orville #1
DST # 3
LKC "D"
2012.08.30



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

7-15s-19w Ellis, KS
Orville #1
Job Ticket: 49492 **DST#: 3**
Test Start: 2012.08.30 @ 01:45:15

Tool Information

Drill Pipe:	Length: 3362.00 ft	Diameter: 3.80 inches	Volume: 47.16 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 47.16 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3362.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	350.00 ft			
Tool Length:	370.00 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			3343.00	
Shut In Tool	5.00			3348.00	
Hydraulic tool	5.00			3353.00	
Packer	5.00			3358.00	20.00 Bottom Of Top Packer
Packer	4.00			3362.00	
Stubb	1.00			3363.00	
Recorder	0.00	8354	Inside	3363.00	
Recorder	0.00	8520	Outside	3363.00	
Perforations	19.00			3382.00	
Blank Off Sub	1.00			3383.00	350.00 Tool Interval
Packer	4.00			3387.00	
Stubb	1.00			3388.00	
Perforations	4.00			3392.00	
Change Over Sub	1.00			3393.00	
Recorder	0.00	8653	Below	3393.00	
Drill Pipe	315.00			3708.00	
Change Over Sub	1.00			3709.00	
Bullnose	3.00			3712.00	1000369.00 Bottom Packers & Anchor

Total Tool Length: 370.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

7-15s-19w Ellis,KS
Orville #1
Job Ticket: 49492 **DST#: 3**
Test Start: 2012.08.30 @ 01:45:15

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 41 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.59 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3600.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
57.00	40%Oil/60%Mud	0.800
40.00	40%Gas/60%Oil	0.561
0.00	1389' G.I.P.	0.000

Total Length: 97.00 ft Total Volume: 1.361 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

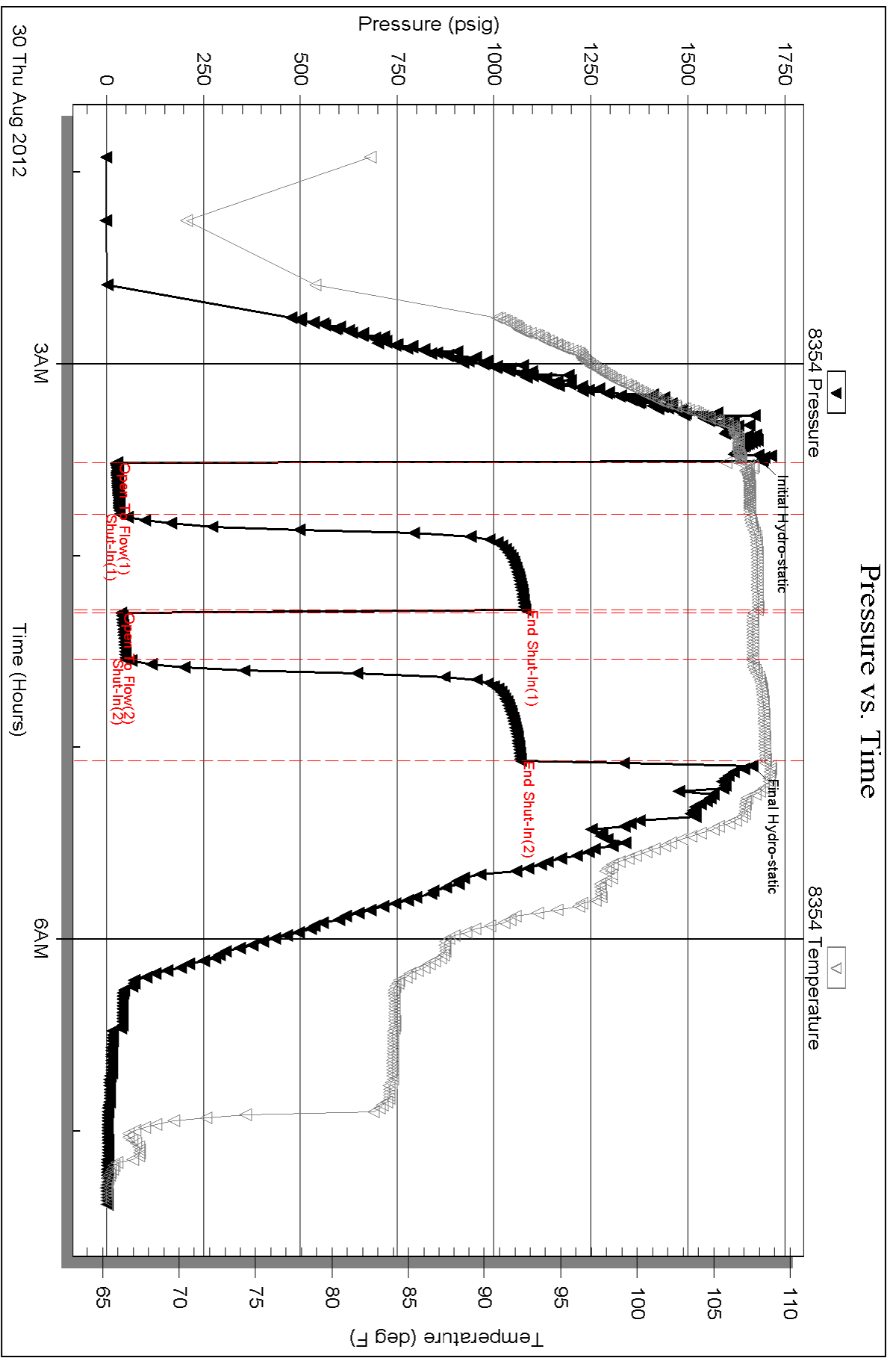
Serial #: 8354

Inside

TDI, Inc.

Orville #1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 49492

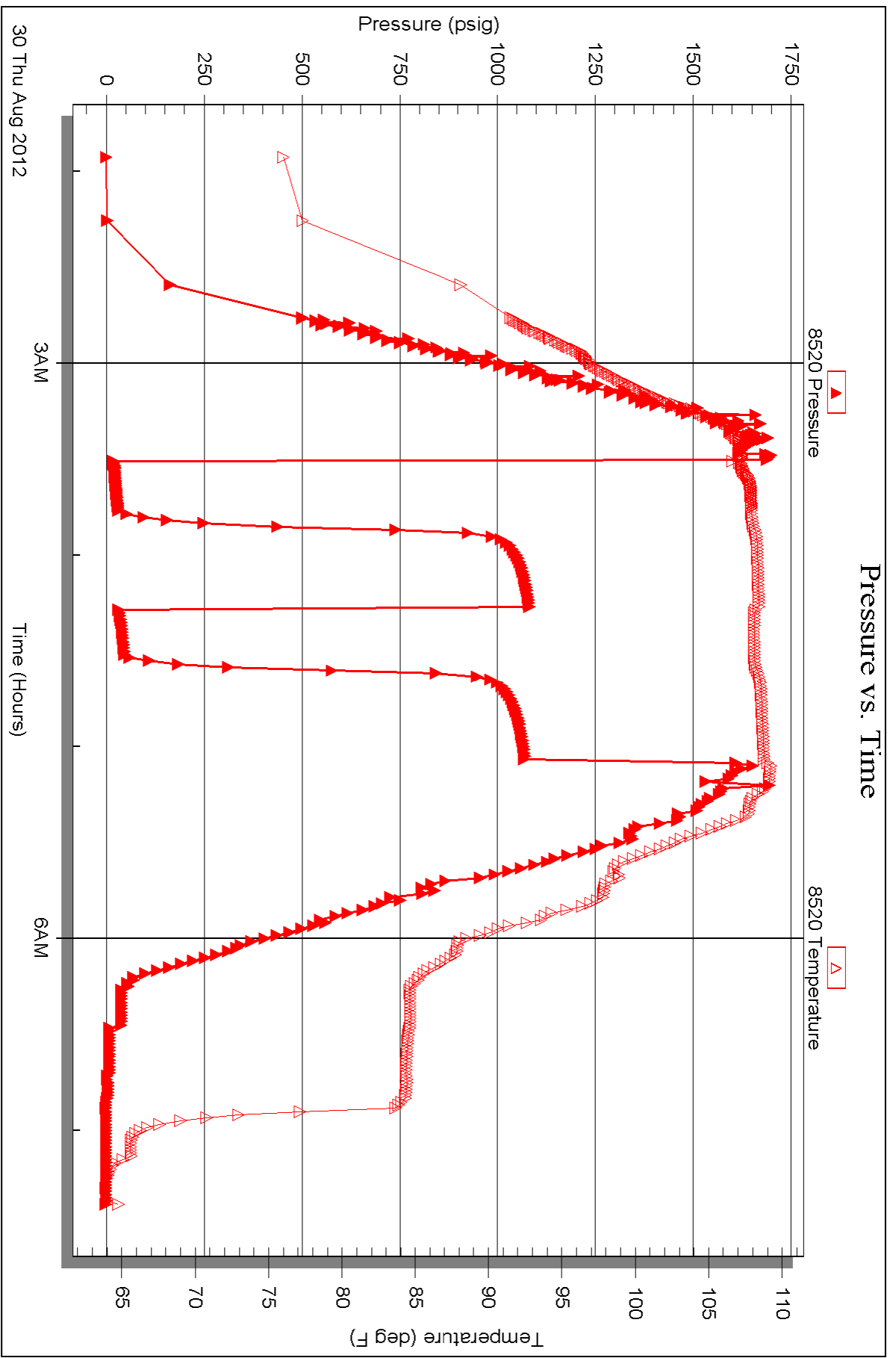
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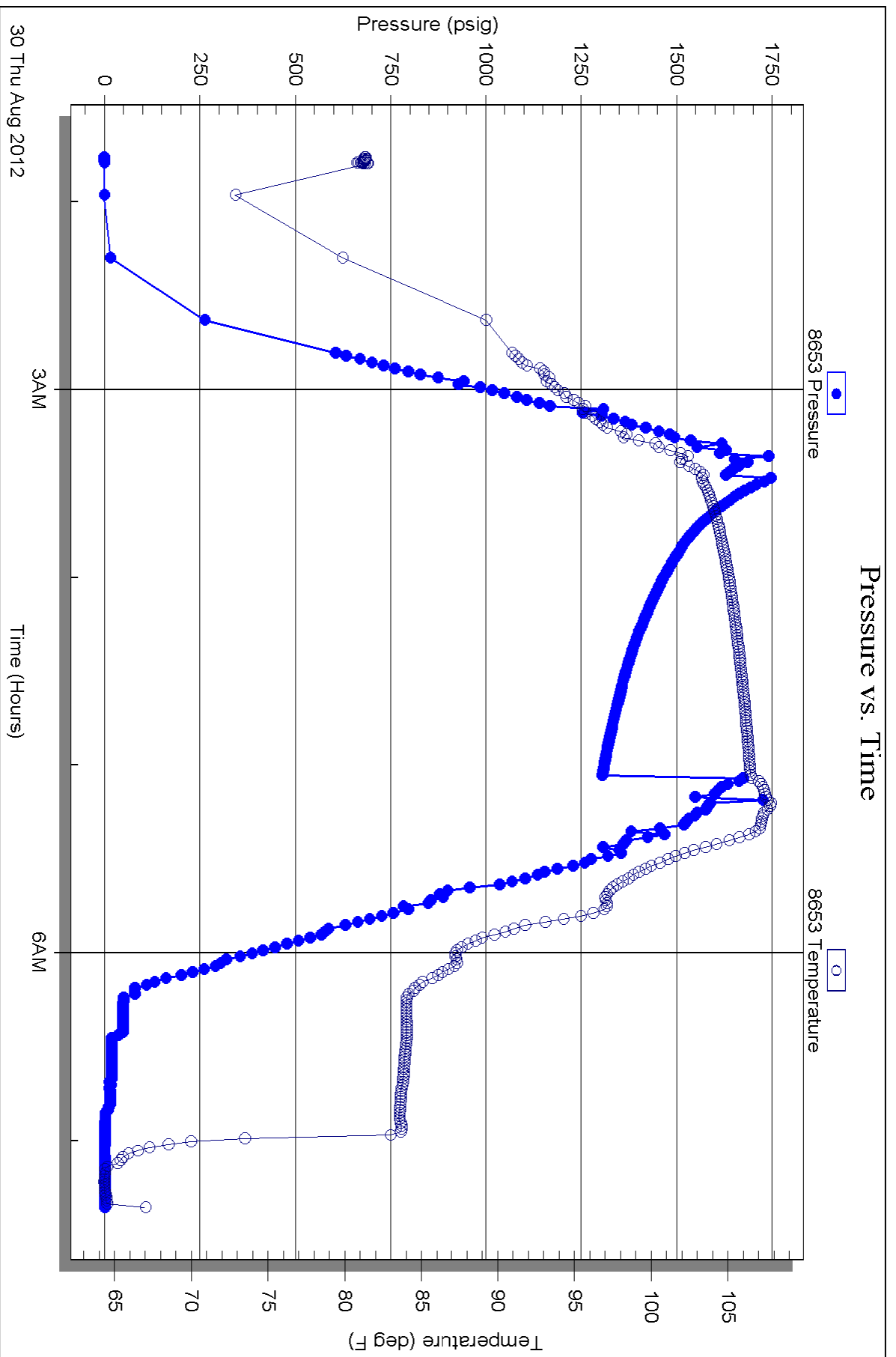
Serial #: 8520

Outside TDI, Inc.

Orville #1

DST Test Number: 3







TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49490

Well Name & No. Orville #1 Test No. 1 Date 8-27-11
 Company VIV, Inc. Elevation 2034 KB 2027 GL
 Address 1310 Bison Rd. Hays, KS 67601
 Co. Rep / Geo. Herb Darnes Rig Southward 1
 Location: Sec. 7 Twp. 15S Rge. 19W Co. Ellis State KS

Interval Tested 3188-3238 Zone Tested Topeka - Oread
 Anchor Length 50' Drill Pipe Run _____ Mud Wt. 8.7
 Top Packer Depth 3183 Drill Collars Run 0 Vis 59
 Bottom Packer Depth 3188 Wt. Pipe Run 0 WL 6.8
 Total Depth 3238 Chlorides 3000 ppm System LCM 2#

Blow Description IF - Weak 1/2 inch blow throughout
ISI - No Return
FF - No Blow. Flushed tool. Weak surface blow. Died @ 11 min.
FST - No Return

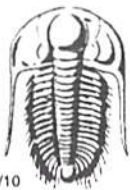
Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 40 BHT 106 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1513</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0815</u>
(B) First Initial Flow <u>33</u>	<input type="checkbox"/> Jars _____	T-Started <u>2200</u>
(C) First Final Flow <u>37</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>2316</u>
(D) Initial Shut-In <u>1004</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>0120</u>
(E) Second Initial Flow <u>37</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>0245</u>
(F) Second Final Flow <u>43</u>	<input checked="" type="checkbox"/> Mileage <u>17X2</u> 52.7	Comments <u>BHT-2131</u>
(G) Final Shut-In <u>961</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1480</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1202.70</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1202.70</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. 49491

Well Name & No. Orville #1 Test No. 2 Date 8-28-12
 Company TST, Inc. Elevation 2034 KB 2027 GL
 Address 1310 Bison Rd. Hays, KS 67601
 Co. Rep / Geo. Herb Demes Rig Southwind 2
 Location: Sec. 7 Twp. 15S Rge. 19W Co. Ellis State KS

Interval Tested 3319-3370 Zone Tested LHC "A-C"
 Anchor Length 51' Drill Pipe Run 3332 Mud Wt. 9.0
 Top Packer Depth 3314 Drill Collars Run 0 Vis 48
 Bottom Packer Depth 3319 Wt. Pipe Run 0 WL 7.2
 Total Depth 3370 Chlorides 3600 ppm System LCM 2#

Blow Description IF - Weak surface blow, Surging @ 11 minutes.
IST - No Return,
FF - No Blow, Flushed Tool. Surface blow, Died @ 9 minutes.
FST - No Return,

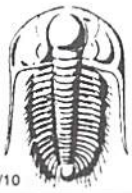
Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 35 BHT 106 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1594 Test 1150 T-On Location 1215
 (B) First Initial Flow 22 Jars _____ T-Started ~~1215~~ 1300
 (C) First Final Flow 30 Safety Joint _____ T-Open 1435
 (D) Initial Shut-In 950 Circ Sub _____ T-Pulled 1640
 (E) Second Initial Flow 31 Hourly Standby _____ T-Out 1815
 (F) Second Final Flow 38 Mileage 17X2 52.70 Comments BHT-1248
 (G) Final Shut-In 890 Sampler _____
 (H) Final Hydrostatic 1597 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1202.70
 Final Flow 30 Accessibility _____ MP/DST Disc _____
 Final Shut-In 30 Sub Total 1202.70

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. 49492

Well Name & No. Ourville #1 Test No. 3 Date 8-30-12
 Company TDI Inc, Elevation 2034 KB 2027 GL
 Address 1310 Bison Rd. Hays, KS 67601
 Co. Rep / Geo. Herb Dernes Rig Southwind 1
 Location: Sec. 7 Twp. 15S Rge. 19W Co. Ellis State KS

Interval Tested 3362-3382 Zone Tested LKC "D"
 Anchor Length 20' 325' TP Drill Pipe Run _____ Mud Wt. 9.1
 Top Packer Depth 3357 Drill Collars Run 0 Vis 53
 Bottom Packer Depth 3362 Wt. Pipe Run 0 WL 7.6
 Total Depth 3707 Chlorides 3600 ppm System LCM 2#

Blow Description TF - Strong building blow, BOB in 4 minutes,
ISI - No Return.
FF - Strong blow, BOB in 15 seconds,
FBI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>Gassy Oil</u>	<u>40</u>	<u>60</u>		
<u>57</u>	<u>HOCM</u>		<u>40</u>		<u>60</u>
____	____	____	____	____	____
____	____	____	____	____	____
____	<u>1389' G.I.P.</u>	____	____	____	____
Rec Total <u>97</u>	BHT <u>109</u>	Gravity <u>41</u>	API RW _____	@ _____ °F	Chlorides _____ ppm

(A) Initial Hydrostatic 1691 Test 1150 T-On Location 0100
 (B) First Initial Flow 27 Jars _____ T-Started 0145
 (C) First Final Flow 34 Safety Joint _____ T-Open 0331
 (D) Initial Shut-In 1080 Circ Sub _____ T-Pulled 0505
 (E) Second Initial Flow 38 Hourly Standby _____ T-Out 0715
 (F) Second Final Flow 50 Mileage 17X2 52.70 Comments BATT-0145
 (G) Final Shut-In 1070 Sampler _____
 (H) Final Hydrostatic 1667 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 15 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1802.70
 Final Flow 15 Accessibility _____ MP/DST Disc _____
 Final Shut-In 30 Sub Total 1802.70

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: ORVILLE # 1
 Location: NE NE SW SE SEC.7-15s-19w
 Pool: WILDCAT
 State: KANSAS

API: 15-051-26,345-00-00
 Field: UNNAMED
 Country: USA



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

Scale 1:240 Imperial

Well Name: ORVILLE # 1
 Surface Location: NE NE SW SE SEC.7-15s-19w
 Bottom Location:
 API: 15-051-26,345-00-00
 License Number: 4787
 Spud Date: 8/23/2012 Time: 3:00 PM
 Region: ELLIS COUNTY
 Drilling Completed: 8/29/2012 Time: 4:14 PM
 Surface Coordinates: 1250' FSL & 1330' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2024.00ft
 K.B. Elevation: 2034.00ft
 Logged Interval: 2900.00ft To: 3707.00ft
 Total Depth: 3707.00ft
 Formation: LANSING-KANSAS CITY
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 1250' FSL
 E/W Co-ord: 1330' 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 #: 1
 Rig Type: MUD ROTARY

Rig Type: MUD ROTARY
Spud Date: 8/23/2012
TD Date: 8/29/2012
Rig Release: 8/30/2012

Time: 3:00 PM
Time: 4:14 PM
Time: 8:00 PM

ELEVATIONS

K.B. Elevation: 2034.00ft
K.B. to Ground: 10.00ft

Ground Elevation: 2024.00ft

NOTES

DECISION TO RUN PRODUCTION CASING BASED ON RESULTS OF DST # 3, POSITIVE STRUCTURE AND NUMEROUS SHOWS OF OIL IN OTHER ZONES.

LOGGING DONE BY PIONEER ENERGY SERVICES: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG AND MICRORESISTIVITY LOG

DRILL STEM TESTING BY TRILOBITE TESTING, INC: 3 DSTS

FORMATION TOPS SUMMARY AND CHRONOLOGY OF DAILY DEPTH AND ACTIVITY

ORVILLE # 1

1250' FSL & 1330' FEL, SE/4

Sec.7-15s-19w

2024' GL 2034' KB


<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>LOG TOPS</u>
Anhydrite	1274+760	1274+ 760
B-Anhydrite	1308+ 726	1312+ 722
Topeka	3017- 983	3008- 974
Heebner Shale	3285-1251	3281-1247
Toronto	3308-1274	3301-1267
LKC	3330-1296	3327-1293
BKC	3580-1546	3579-1545
Conglomerate Sand	3664-1630	3660-1626
Arbuckle	3674-1640	3678-1644
Reagan Sand	3690-1656	3689-1655
RTD	3707-1673	
LTD		3706-1672

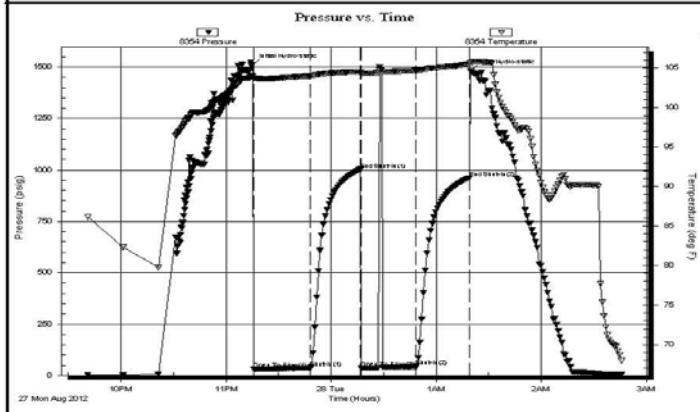
SUMMARY OF DAILY ACTIVITY

8-23-12 RU, Spud

- 8-24-12 1010', drilling, ran 31 jts, new 23# 8 5/8" surface casing set to 1282.62' w/ 375 sxs SMD, plug down 9:00 PM, slope ½ degree
- 8-25-12 WOC 12 hrs, kick off drilling plug at 9:00 AM
- 8-26-12 2385', drilling
- 8-27-12 3023', drilling, displace 2875', DST # 1 3188'-3238', slope ¼ degree
- 8-28-12 3285', drilling, DST # 2, 3319'-3370'
- 8-29-12 3535', drilling, RTD 3707', slope @ 3707 ¾ degree, logs
- 8-30-12 3707', DST # 3 straddle test 3362'-3382', run 5 ½" production casing

DST # 1 TEST SUMMARY

	DRILL STEM TEST REPORT		
	TD, Inc. 1310 Bison Rd. Hays, KS 67601 ATTN: Herb Deines	7/15S/19W-Ellis Orville #1 Job Ticket: 49490 DST#: 1 Test Start: 2012.08.27 @ 21:31:15	
GENERAL INFORMATION:			
Formation: Topeka-Oread Deviated: No Whipstock ft (KB) Time Tool Opened: 23:15:45 Time Test Ended: 02:45:45		Test Type: Conventional Bottom Hole (Initial) Tester: Dustin Rash Unit No: 38	
Interval: 3188.00 ft (KB) To 3238.00 ft (KB) (TVD) Total Depth: 3238.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair		Reference Elevations: 2034.00 ft (KB) 2027.00 ft (CF) KB to GR/CF: 7.00 ft	
Serial #: 8354			
Press@RunDepth: 42.75 psig @ ft (KB) Start Date: 2012.08.27 End Date: 2012.08.28 Start Time: 21:41:15 End Time: 02:45:45		Capacity: 8000.00 psig Last Calib.: 2012.08.28 Time On Btm: 2012.08.27 @ 23:15:25 Time Off Btm: 2012.08.28 @ 01:19:45	
TEST COMMENT: IF-Weak 1/2 inch blow throughout. ISI-No Return. FF-No Blow . Flushed Tool. Weak surface blow . Died @ 11 minutes. FSI-No Return.			




PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1512.71	104.03	Initial Hydro-static
1	32.67	103.73	Open To Flow (1)
33	36.68	104.02	Shut-In(1)
62	1004.15	104.58	End Shut-In(1)
62	36.75	104.21	Open To Flow (2)
93	42.75	104.69	Shut-In(2)
124	961.34	105.51	End Shut-In(2)
125	1480.05	105.72	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
40.00	100% Mud	0.56

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

DST # 2 TEST SUMMARY

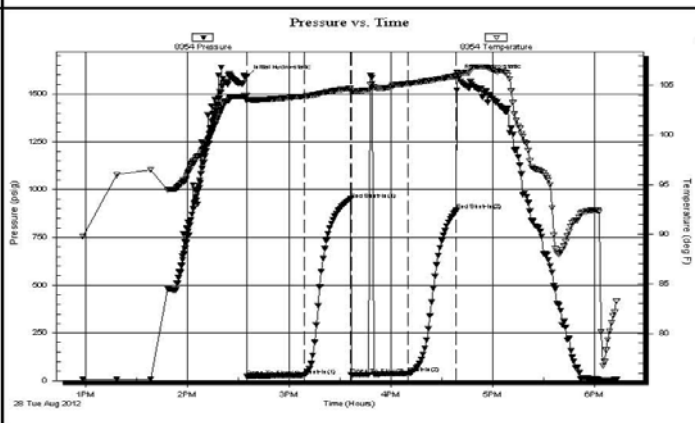
 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT	
	TDI, Inc. 1310 Bison Rd. Hays, KS 67601 ATTN: Herb Deines	7/15S/19W-Ellis Orville #1 Job Ticket: 49491 DST#: 2 Test Start: 2012.08.28 @ 12:48:30

GENERAL INFORMATION:

Formation: LKC "A-C"	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock ft (KB)	Tester: Dustin Rash
Time Tool Opened: 14:35:10	Unit No: 38
Time Test Ended: 18:13:30	Reference Elevations: 2034.00 ft (KB)
Interval: 3319.00 ft (KB) To 3370.00 ft (KB) (TVD)	2027.00 ft (CF)
Total Depth: 3370.00 ft (KB) (TVD)	KB to GR/CF: 7.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair

Serial #: 8354	Inside				
Press@RunDepth: 37.82 psig @ 3358.00 ft (KB)	Capacity: 8000.00 psig				
Start Date: 2012.08.28	End Date: 2012.08.28	Last Calib.: 2012.08.28			
Start Time: 12:58:30	End Time: 18:13:30	Time On Btm: 2012.08.28 @ 14:34:50			
		Time Off Btm: 2012.08.28 @ 16:39:30			

TEST COMMENT: IF-Weak surface blow. Surging @ 11 minutes.
 ISI-No Return.
 FF-No Blow. Flushed Tool. Surface Blow. Died @ 9 minutes.
 FSI-No Return.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1593.71	103.97	Initial Hydro-static
1	22.04	103.64	Open To Flow (1)
35	29.65	103.95	Shut-In(1)
62	950.08	104.70	End Shut-In(1)
62	30.59	104.32	Open To Flow (2)
96	37.82	105.21	Shut-In(2)
124	890.14	106.02	End Shut-In(2)
125	1597.40	106.28	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
35.00	100% Mud	0.49

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

DST # 3 STRADDLE TEST SUMMARY



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

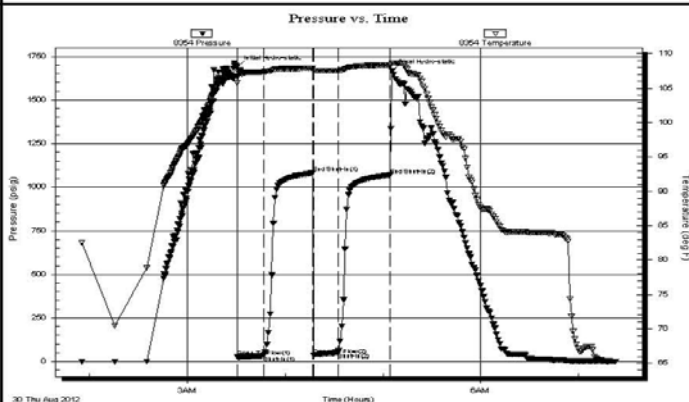
7/15S/19W-Ellis
Orville #1
Job Ticket: 49492 **DST#: 3**
Test Start: 2012.08.30 @ 01:45:15

GENERAL INFORMATION:

Formation: **LKC "D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:30:45
Time Test Ended: 07:23:15
Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Rash
Unit No: 38
Interval: **3362.00 ft (KB) To 3382.00 ft (KB) (TVD)**
Reference Elevations: 2034.00 ft (KB)
2027.00 ft (CF)
Total Depth: 3707.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
KB to GR/CF: 7.00 ft

Serial #: 8354 Inside
Press@RunDepth: 49.92 psig @ 3363.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.08.30 End Date: 2012.08.30 Last Calib.: 2012.08.30
Start Time: 01:55:15 End Time: 07:23:15 Time On Btm: 2012.08.30 @ 03:30:35
Time Off Btm: 2012.08.30 @ 05:05:45

TEST COMMENT: IF-Strong building blow. BOB in 4 minutes.
ISI-No Return.
FF-Strong blow. BOB in 15 seconds.
FSI-No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1691.10	106.80	Initial Hydro-static
1	27.31	105.80	Open To Flow (1)
17	33.93	107.37	Shut-In(1)
47	1080.19	107.88	End Shut-In(1)
48	38.05	107.57	Open To Flow (2)
62	49.92	107.56	Shut-In(2)
94	1070.06	108.37	End Shut-In(2)
96	1666.55	108.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
57.00	40%Oil/60% Mud	0.80
40.00	40%Gas/60%Oil	0.56
0.00	1389' G.I.P.	0.00

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 49492

Printed: 2012.08.30 @ 08:01:06

ROCK TYPES

Dolprim	shale, grn	shale, red	Dol Lime
Lmst fw<7	shale, gry	Shcol	Lscongl
Lmst fw>7	Carbon Sh	Ss	CglSandy

ACCESSORIES

MINERAL

- ▲ Chert, dark
- △ Chert White

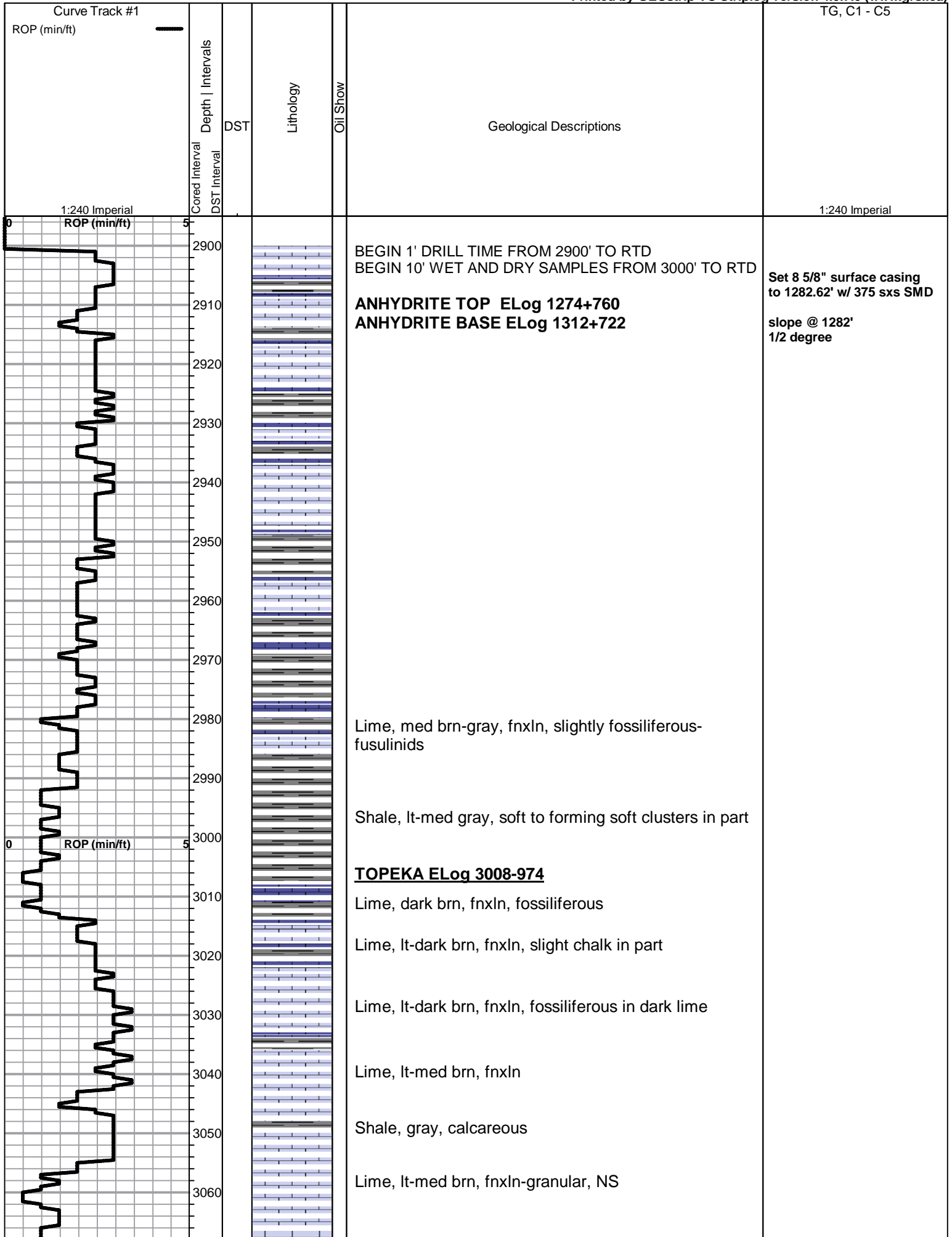
FOSSIL

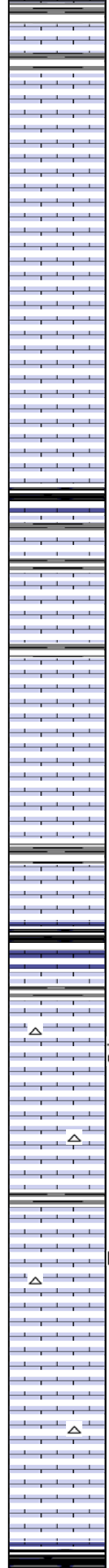
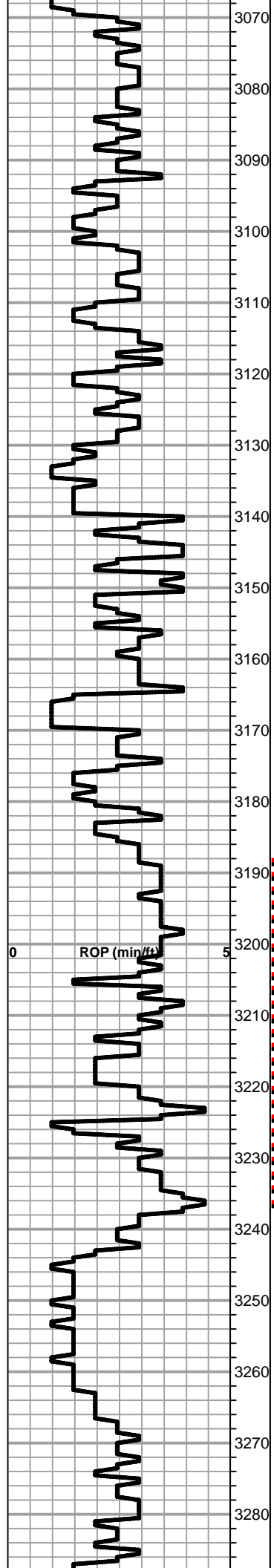
- Oolite
- ⊕ Oomoldic

OTHER SYMBOLS

DST

- DST Int





Lime, lt-med brn-lt gray, fnxln
 Shale, lt gray soft forming soft mud clumps

Lime, med brn-grayish brn, fnxln, slight chalk in part

Lime, med brn-grayish brn, fnxln

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

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

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

Shale, black carbonaceous, fissile, blocky

Lime, med brn-lt gray, fnxln

Lime, crm, fn- vfxln

Lime crm, fn-vfxln grading into granular, chalky lime,
 NS

Lime, lt brn, fnxln-granular in part

Lime, offwhite-med brn, fnxln

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

Lime, med brn, fnxln

Lime, med brn, fnxln with medium intercrystalline
 porosity, good odor, light staining, SFO on break

Lime, lt brn-lt grayish brn, fnxln-granular, slight chalk
 NS

Lime, fnxln with very dense micritic lime in part
 Shale, grayish green, soft and sticky clumps

Lime, crm-lt brn, fnxln-granular, spotty gilsonite

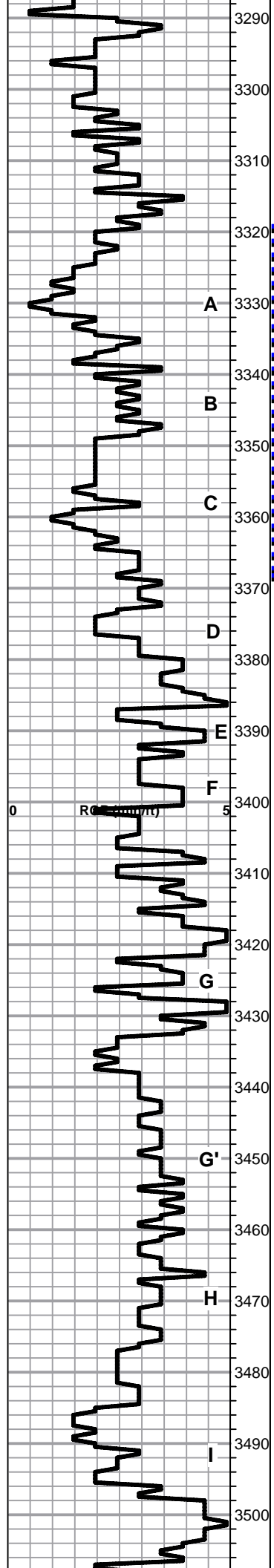
Lime, lt-med brn, granular with scattered gray chert,
 fresh, sharp

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

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

HEEBNER SHALE SPL 3285-1251 EL3281-1247

**DST # 1 3188' TO 3238'
 SEE HEADER FOR TEST
 SUMMARY**



Shale, black carbonaceous, fissile, blocky
 Lime, med brn, vfxln, hard, slightly fossiliferous
 Shale, lime green-lt gray, soft mud

TORONTO SPL 3308-1274 ELog 3301-1267

Lime, white-crm, fn-vfxln, bedded chalk, NS
 Lime, lt brn-lt gray, fnxln

Shale, red wash forming soft mud

LKC SPL 3330-1296 ELog 3327-1293

Lime, med brn-grayish brn, fnxln
 Shale, lime green-lt gray, forming soft mud clusters
 Lime, lt-med brn, fnxln grading into mixed color limes

DST # 2 3319' TO 3370'
 SEE HEADER FOR TEST SUMMARY

Shale, lime green, soft forming soft mud clusters

Lime, crm-tan, fnxln grading into cemented oolitic zone with oolmoldic in part with scattered staining with lt odor
 Lime, lt-med brn, fn-vfxln, slight bedded chalk

DST # 3 STRADDLE TEST
 3362' TO 3382'
 SEE HEADER FOR TEST SUMMARY

Lime, tan-lt brn, fnxln with fine intercrystalline porosity, scattered to saturated staining

Lime, crm, fnxln-vfxln
 Shale, gray-black carbonaceous
 Lime, pale green-lt gray, fnxln

Lime, wht-crm, oolitic in part with flakey gilsonite in part

Lime, crm-tan, oolitic with fossil fragments, saturated stain, very lt odor

Lime, crm-tan, fn-vfxln, scattered bedded chalk

Lime crm-lt brn, fn-vfxln with scattered granular, NS

Lime, crm-lt brn, fn-vfxln with scattered cemented oolitic lime in part

Lime, lt-med brn, vf-cryptoxln, slight bedded chalk

Lime, med-dark brn, vfxln, hard, slight fossil content

Lime, dark gray-crm-tan, fn-vfxln, hard

Lime, crm-tan, vf-cryptoxln, poor visible porosity, NS

Lime, brn, fnxln, hard

Lime crm-lt brn, fnxln-oolitic/oolmoldic, scattered gilsonite flakes, scat-saturated stain, lt odor

Lime, offwhite, vfxln, hard

Shale, med gray, soft

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

January 2, 2013

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

Re: ACO1
API 15-051-26345-00-00
Orville 1
SE/4 Sec.07-15S-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

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

January 14, 2013

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

Re: ACO-1
API 15-051-26345-00-00
Orville 1
SE/4 Sec.07-15S-19W
Ellis County, Kansas

Dear Tom Denning:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 8/23/2012 and the ACO-1 was received on January 11, 2013 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department