



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1140722
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: _____



1140722

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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DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

1310 Bison RD
Hays, KS 67601

ATTN: Herb Deines

Henman Unit #1

6-15s-19w Ellis KS

Start Date: 2013.03.27 @ 14:58:00

End Date: 2013.03.27 @ 20:21:30

Job Ticket #: 52164 DST #: 1

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

Printed: 2013.03.28 @ 15:32:52

TDI Inc
6-15s-19w Ellis KS
Henman Unit #1
DST # 1
Cong. Sand
2013.03.27



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

6-15s-19w Ellis KS

Henman Unit #1

Job Ticket: 52164

DST#: 1

Test Start: 2013.03.27 @ 14:58:00

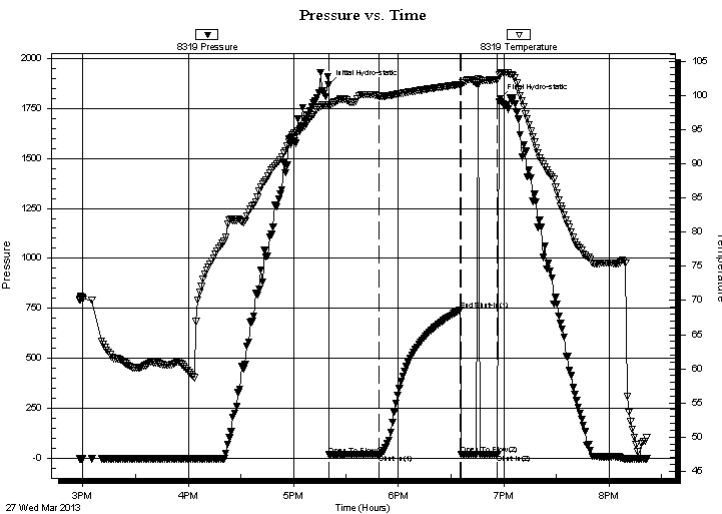
GENERAL INFORMATION:

Formation: **Cong. Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:20:30
 Time Test Ended: 20:21:30
 Interval: **3656.00 ft (KB) To 3685.00 ft (KB) (TVD)**
 Total Depth: 3685.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Cody Bloedorn
 Unit No: 59
 Reference Elevations: 2048.00 ft (KB)
 2038.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8319 Outside

Press @ RunDepth: 19.70 psig @ 3657.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.03.27 End Date: 2013.03.27 Last Calib.: 2013.03.27
 Start Time: 14:58:05 End Time: 20:21:29 Time On Btm: 2013.03.27 @ 17:20:00
 Time Off Btm: 2013.03.27 @ 18:58:00

TEST COMMENT: 30 - IF- 3/4" blow
 45 - IS- No return
 20 - FF- No blow for 10 Minutes, flushed tool, surged and died. w. waited 10 Min. Pulled tool.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1868.47	98.68	Initial Hydro-static
1	18.52	98.36	Open To Flow (1)
29	19.70	99.89	Shut-In(1)
75	741.64	101.58	End Shut-In(1)
76	20.15	101.43	Open To Flow (2)
97	21.77	102.32	Shut-In(2)
98	1797.74	103.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud, with show of Oil, 100%M	0.21

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
 ATTN: Herb Deines

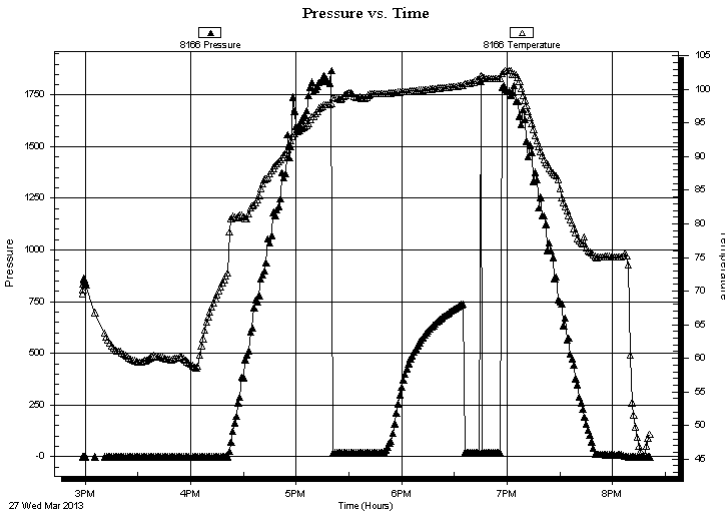
6-15s-19w Ellis KS
Henman Unit #1
 Job Ticket: 52164 **DST#: 1**
 Test Start: 2013.03.27 @ 14:58:00

GENERAL INFORMATION:

Formation: **Cong. Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:20:30
 Time Test Ended: 20:21:30
 Interval: **3656.00 ft (KB) To 3685.00 ft (KB) (TVD)**
 Total Depth: 3685.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Cody Bloedorn
 Unit No: 59
 Reference Elevations: 2048.00 ft (KB)
 2038.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8166 **Inside**
 Press @ Run Depth: psig @ 3657.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.03.27 End Date: 2013.03.27 Last Calib.: 2013.03.27
 Start Time: 14:58:35 End Time: 20:20:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF- 3/4" blow
 45 - IS- No return
 20 - FF- No blow for 10 Minutes, flushed tool, surged and died. w. waited 10 Min. Pulled tool.



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

Recovery		
Length (ft)	Description	Volume (bbl)
15.00	Mud, with show of Oil, 100%M	0.21

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

6-15s-19w Ellis KS
Henman Unit #1
Job Ticket: 52164 **DST#: 1**
Test Start: 2013.03.27 @ 14:58:00

Tool Information

Drill Pipe:	Length: 3657.00 ft	Diameter: 3.80 inches	Volume: 51.30 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 51.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3656.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	57.00 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			3629.00	
Shut In Tool	5.00			3634.00	
Hydraulic tool	5.00			3639.00	
Jars	5.00			3644.00	
Safety Joint	2.00			3646.00	
Packer	5.00			3651.00	28.00 Bottom Of Top Packer
Packer	5.00			3656.00	
Stubb	1.00			3657.00	
Recorder	0.00	8166	Inside	3657.00	
Recorder	0.00	8319	Outside	3657.00	
Perforations	25.00			3682.00	
Bullnose	3.00			3685.00	29.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc **6-15s-19w Ellis KS**
 1310 Bison RD **Henman Unit #1**
 Hays, KS 67601 Job Ticket: 52164 **DST#: 1**
 ATTN: Herb Deines Test Start: 2013.03.27 @ 14:58:00

Mud and Cushion Information

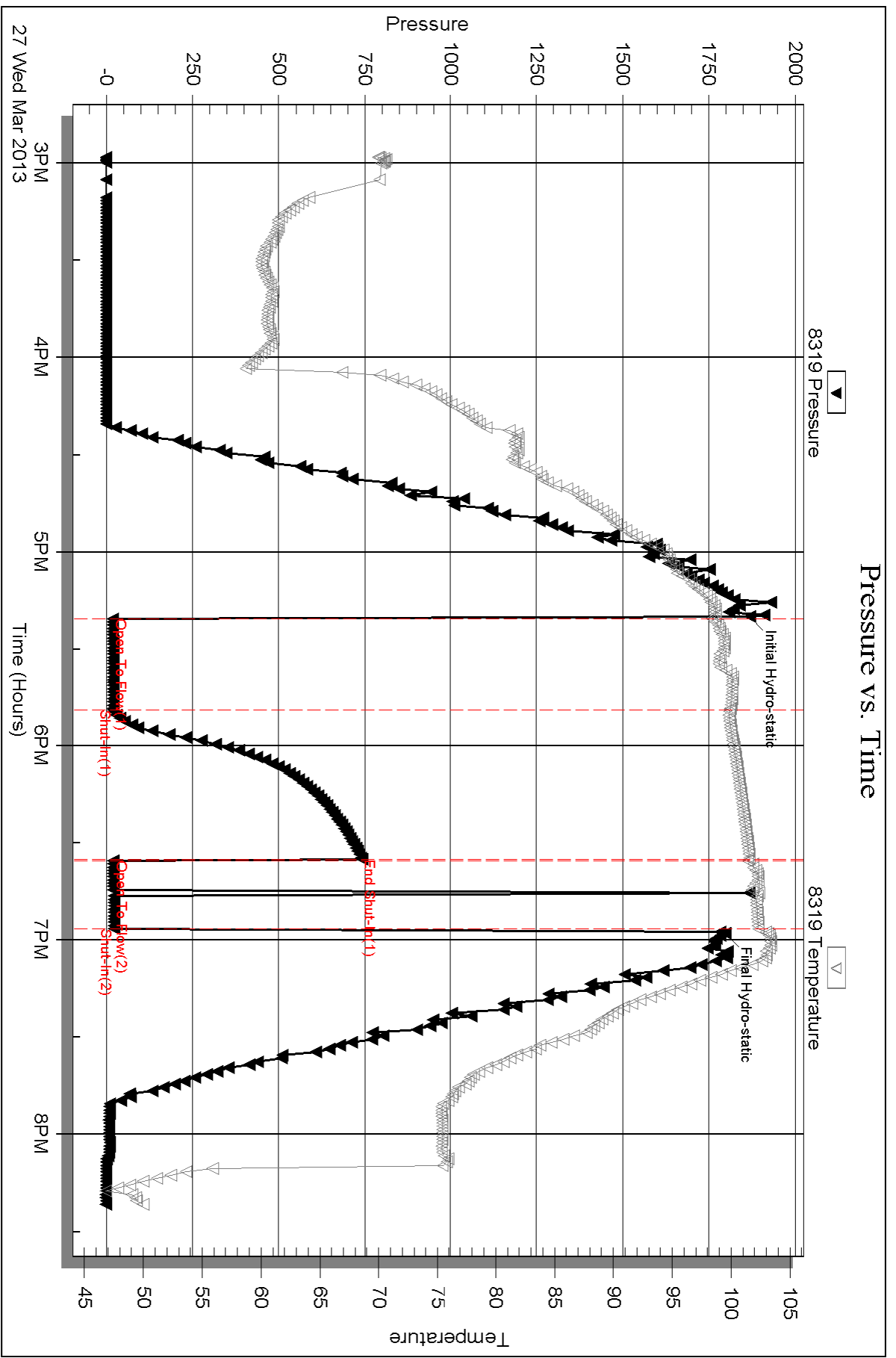
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 75.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud, with show of Oil, 100%M	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



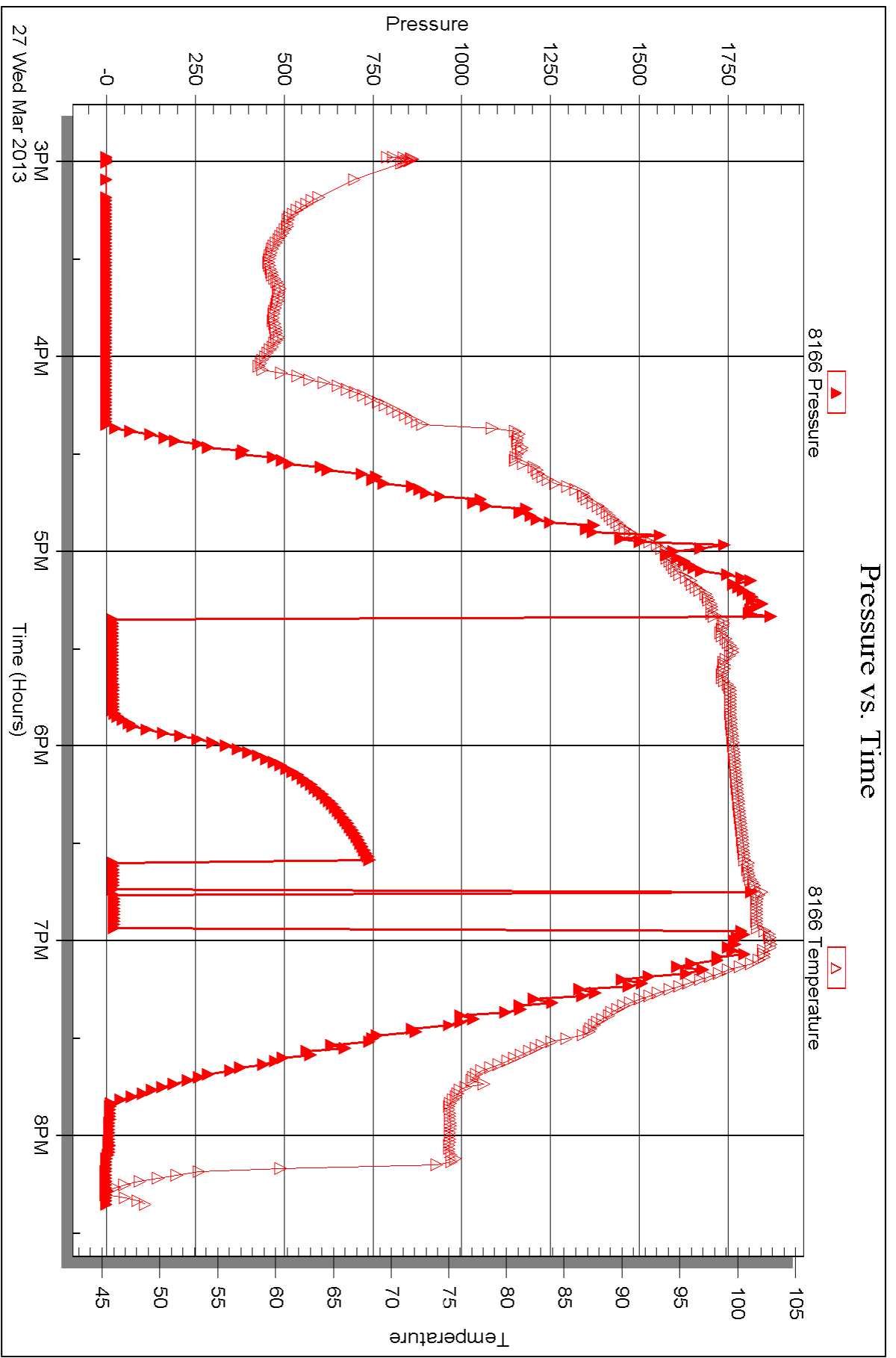
Serial #: 8166

Inside

TDI Inc

Herman Unit #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 52164

Printed: 2013.03.28 @ 15:32:55



DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

1310 Bison RD
Hays, KS 67601

ATTN: Herb Deines

Henman Unit #1

6-15s-19w Ellis KS

Start Date: 2013.03.28 @ 01:08:05

End Date: 2013.03.28 @ 08:48:29

Job Ticket #: 52165 DST #: 2

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

Printed: 2013.03.28 @ 15:31:20

TDI Inc
6-15s-19w Ellis KS
Henman Unit #1
DST # 2
"H"
2013.03.28



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

6-15s-19w Ellis KS
Henman Unit #1
 Job Ticket: 52165 **DST#: 2**
 Test Start: 2013.03.28 @ 01:08:05

GENERAL INFORMATION:

Formation: **"H"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:20:00
 Time Test Ended: 08:48:29
Interval: 3460.00 ft (KB) To 3484.00 ft (KB) (TVD)
 Total Depth: 3684.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Reset)
 Tester: Cody Bloedorn
 Unit No: 59
 Reference Elevations: 2048.00 ft (KB)
 2038.00 ft (CF)
 KB to GR/CF: 10.00 ft

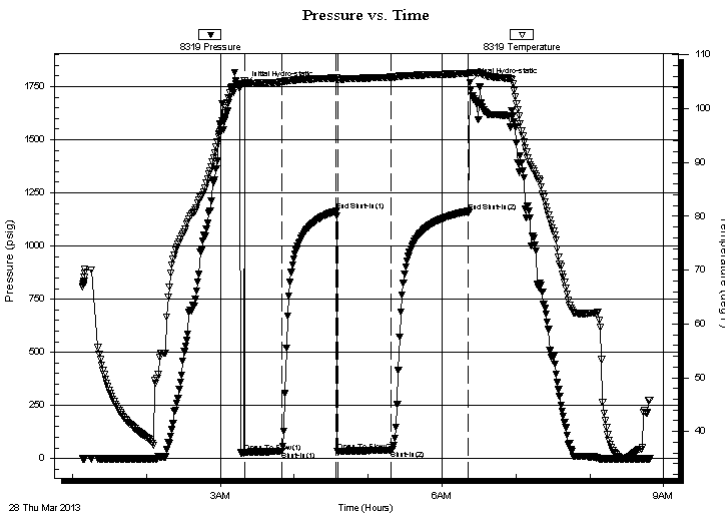
Serial #: 8319

Inside

Press @ Run Depth: 39.09 psig @ 3480.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.03.28 End Date: 2013.03.28 Last Calib.: 2013.03.28
 Start Time: 01:08:05 End Time: 08:48:29 Time On Btm: 2013.03.28 @ 03:19:30
 Time Off Btm: 2013.03.28 @ 06:22:30

TEST COMMENT: 30 - IF- 1" blow
 45 - IS- No return
 45 - FF- 1/2" blow
 60 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1757.09	105.13	Initial Hydro-static
1	29.22	104.76	Open To Flow (1)
30	33.05	104.97	Shut-In(1)
75	1164.76	105.72	End Shut-In(1)
76	34.34	105.43	Open To Flow (2)
119	39.09	105.88	Shut-In(2)
182	1162.82	106.53	End Shut-In(2)
183	1769.98	106.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud, with oil spots, 100%M	0.63

* Recovery from multiple tests

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
ATTN: Herb Deines

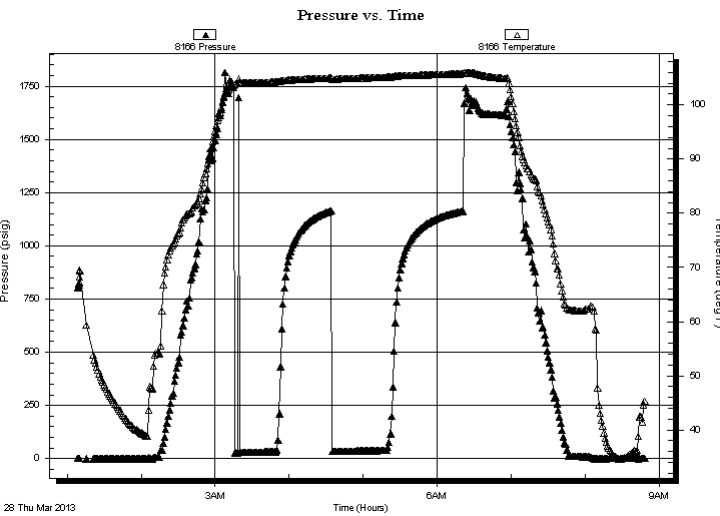
6-15s-19w Ellis KS
Henman Unit #1
Job Ticket: 52165 **DST#: 2**
Test Start: 2013.03.28 @ 01:08:05

GENERAL INFORMATION:

Formation: "H"
Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle (Reset)
Time Tool Opened: 03:20:00 Tester: Cody Bloedorn
Time Test Ended: 08:48:29 Unit No: 59
Interval: 3460.00 ft (KB) To 3484.00 ft (KB) (TVD) Reference Elevations: 2048.00 ft (KB)
Total Depth: 3684.00 ft (KB) (TVD) 2038.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8166 Outside
Press @ Run Depth: psig @ 3480.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.03.28 End Date: 2013.03.28 Last Calib.: 2013.03.28
Start Time: 01:08:35 End Time: 08:48:29 Time On Btm:
Time Off Btm:

TEST COMMENT: 30 - IF- 1" blow
45 - IS- No return
45 - FF- 1/2" blow
60 - FS- No return



PRESSURE SUMMARY

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

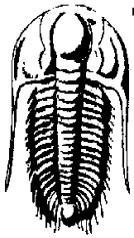
Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud, with oil spots, 100%M	0.63

* Recovery from multiple tests

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
 ATTN: Herb Deines

6-15s-19w Ellis KS
Henman Unit #1
 Job Ticket: 52165 **DST#: 2**
 Test Start: 2013.03.28 @ 01:08:05

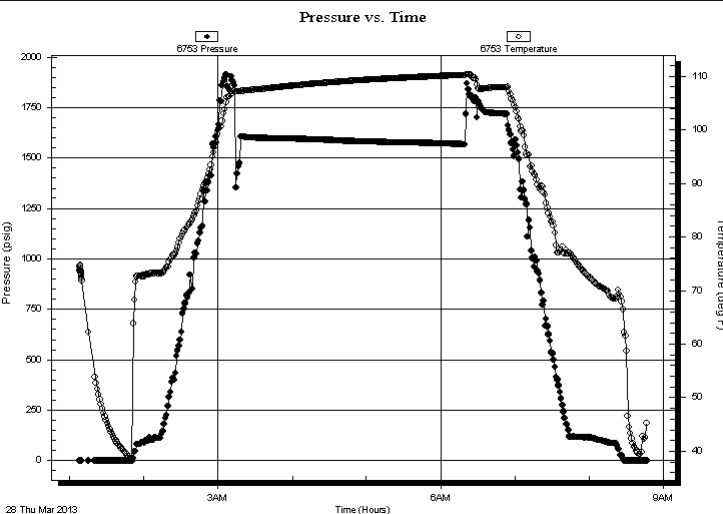
GENERAL INFORMATION:

Formation: "H"				Test Type: Conventional Straddle (Reset)
Deviated: No Whipstock:		ft (KB)		Tester: Cody Bloedorn
Time Tool Opened: 03:20:00				Unit No: 59
Time Test Ended: 08:48:29				
Interval: 3460.00 ft (KB) To 3484.00 ft (KB) (TVD)			Reference Elevations:	2048.00 ft (KB)
Total Depth: 3684.00 ft (KB) (TVD)				2038.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair		KB to GR/CF:	10.00 ft

Serial #: 6753 Below (Straddle)

Press @ RunDepth: psig @	3685.00 ft (KB)	Capacity:	8000.00 psig
Start Date: 2013.03.28	End Date: 2013.03.28	Last Calib.:	2013.03.28
Start Time: 01:08:05	End Time: 08:46:59	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: 30 - IF- 1" blow
 45 - IS- No return
 45 - FF- 1/2" blow
 60 - FS- No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud, with oil spots, 100%M	0.63

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

6-15s-19w Ellis KS
Henman Unit #1
Job Ticket: 52165 **DST#: 2**
Test Start: 2013.03.28 @ 01:08:05

Tool Information

Drill Pipe:	Length: 3466.00 ft	Diameter: 3.80 inches	Volume: 48.62 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	44000.00 lb
			<u>Total Volume: 48.62 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3460.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	3484.00 ft				
Interval between Packers:	24.00 ft				
Tool Length:	256.00 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			3433.00	
Shut In Tool	5.00			3438.00	
Hydraulic tool	5.00			3443.00	
Jars	5.00			3448.00	
Safety Joint	3.00			3451.00	
Packer	4.00			3455.00	28.00 Bottom Of Top Packer
Packer	5.00			3460.00	
Stubb	1.00			3461.00	
Perforations	19.00			3480.00	
Recorder	0.00	8319	Inside	3480.00	
Recorder	0.00	8166	Outside	3480.00	
Blank Off Sub	4.00			3484.00	24.00 Tool Interval
Packer	4.00			3488.00	
Stubb	1.00			3489.00	
perforations	5.00			3494.00	
Change Over Sub	1.00			3495.00	
Blank Spacing	189.00			3684.00	
Change Over Sub	1.00			3685.00	
Recorder	0.00	6753	Below	3685.00	
Bullnose	3.00			3688.00	204.00 Bottom Packers & Anchor
Total Tool Length:	256.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

6-15s-19w Ellis KS
Henman Unit #1
Job Ticket: 52165 **DST#: 2**
Test Start: 2013.03.28 @ 01:08:05

Mud and Cushion Information

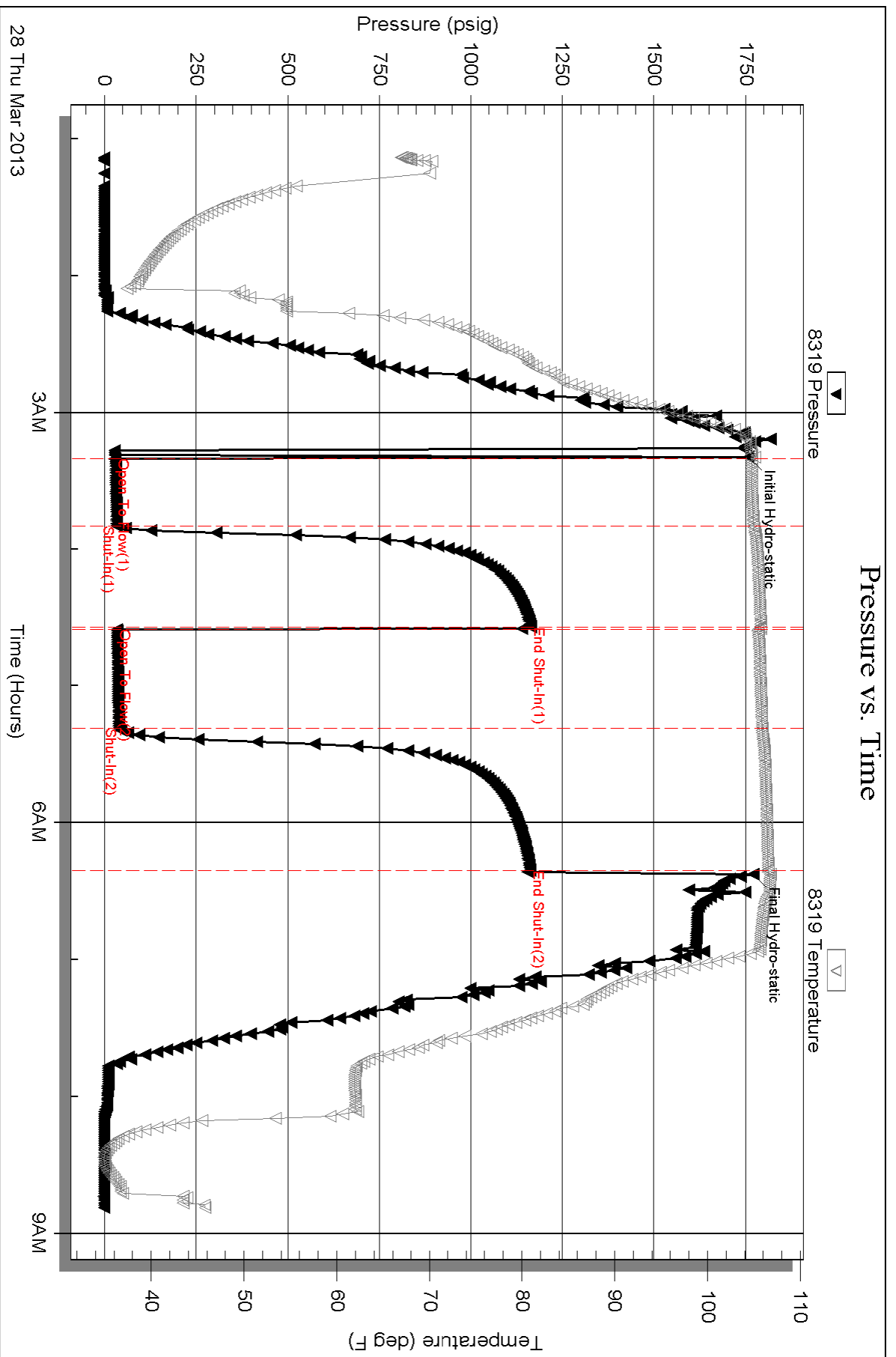
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 75.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2600.00 ppm			
Filter Cake: inches			

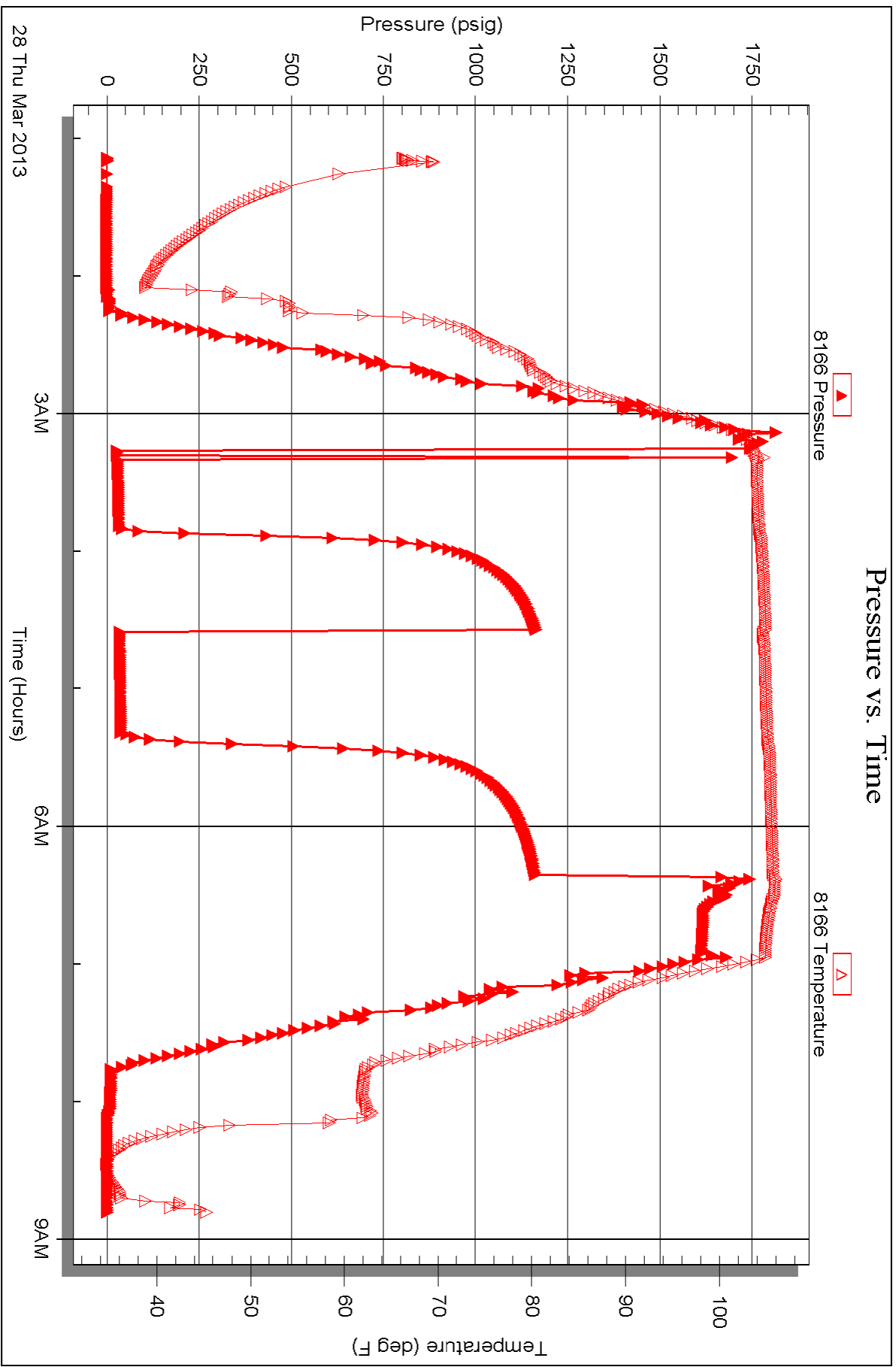
Recovery Information

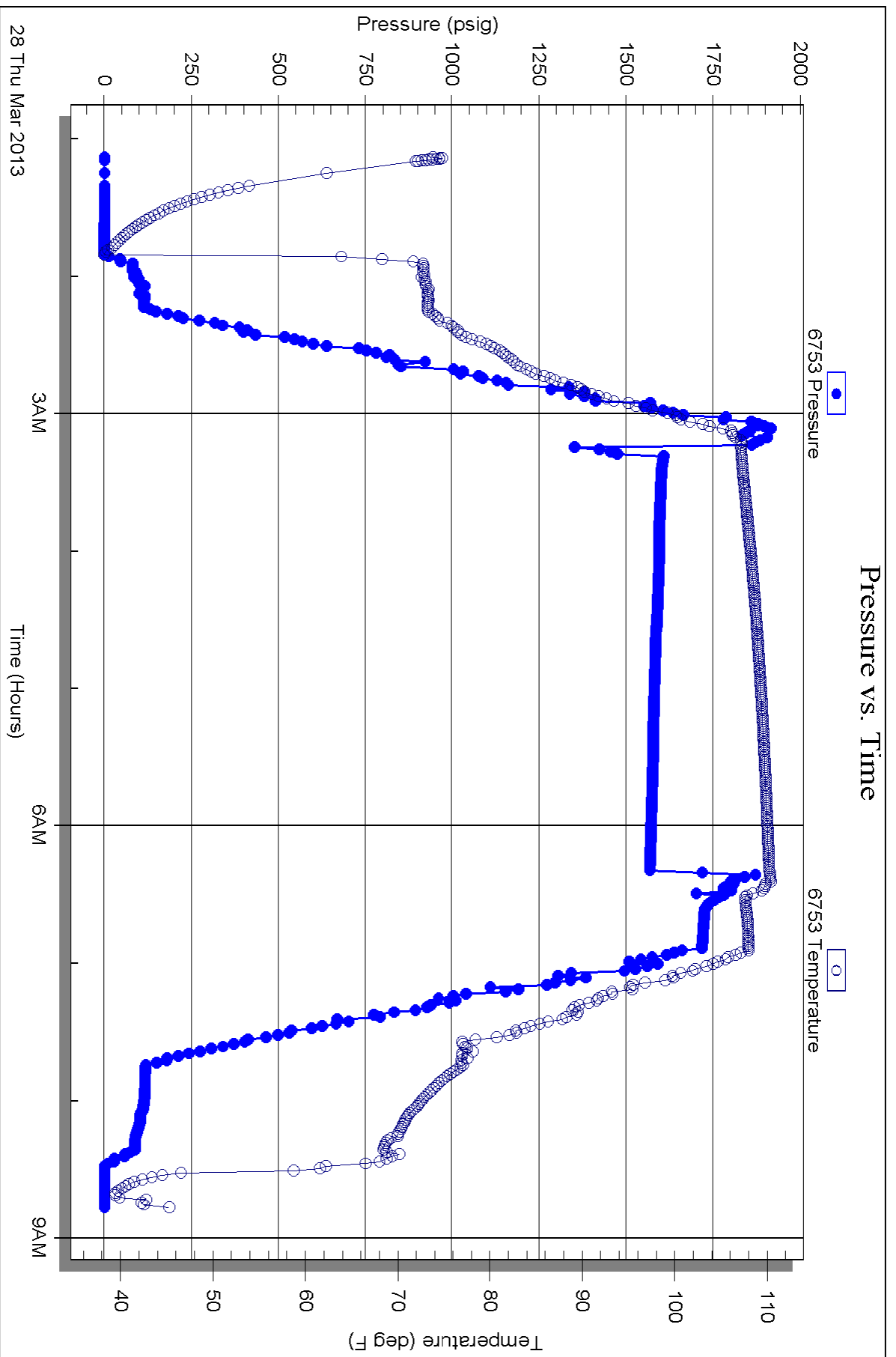
Recovery Table

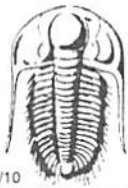
Length ft	Description	Volume bbl
45.00	Mud, w ith oil spots, 100%M	0.631

Total Length: 45.00 ft Total Volume: 0.631 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:









TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52164

Well Name & No. Henman Unit #1 Test No. 1 Date 3-27-13
 Company TDI Inc Elevation 2048 KB 2038 GL
 Address 1310 Bison RD, Hays KS, 67601
 Co. Rep / Geo. Herb Rig Southwind #1
 Location: Sec. 6 Twp. 15S Rge. 19W Co. ELLIS State KS

Interval Tested 3656 - 3685 Zone Tested Congl sand
 Anchor Length 29' Drill Pipe Run 3657' Mud Wt. 9.5
 Top Packer Depth 3651 Drill Collars Run — Vis 75
 Bottom Packer Depth 3656 Wt. Pipe Run — WL 7.8
 Total Depth 3685 Chlorides 2,600 ppm System LCM —

Blow Description IF - 3/4" blow
ISI - No return
FF - No blow for 10 Min. Flushed tool, surged & died, waited 10 min.
~~ISI~~ pulled tool

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Mud with show of oil</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 15' BHT 102° Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>1868</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>10:13 am</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>2:58 pm</u>
(C) First Final Flow <u>19</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>5:20 pm</u>
(D) Initial Shut-In <u>741</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>6:55 pm</u>
(E) Second Initial Flow <u>20</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>8:23 pm</u>
(F) Second Final Flow <u>21</u>	<input checked="" type="checkbox"/> Mileage <u>2000 40RT⁶²</u>	Comments <u>No hourly charge</u>
(G) Final Shut-In <u>—</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1797</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer

Initial Open 30
 Initial Shut-In 45
 Final Flow 20
 Final Shut-In —

Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Sub Total 1537

Total 1537
 MP/DST Disc't —

Approved By _____

Our Representative Cody B

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52165

Well Name & No. Henman unit #1 Test No. 2 Date 3-28-13
 Company TDI Inc Elevation 2048 KB 2038 GL
 Address 1310 Bison RD, Hays KS, 67601
 Co. Rep / Geo. Herb Rig Southwind #1
 Location: Sec. 6 Twp. 15S Rge. 19W Co. Ellis State KS

Interval Tested 3460 - 3484 TD3684 Zone Tested "H"
 Anchor Length 24' Drill Pipe Run 3466 Mud Wt. 9.5
 Top Packer Depth 3455 Drill Collars Run — Vis 75
 Bottom Packer Depth 3460 Wt. Pipe Run — WL 7.8
 Total Depth 3484 Chlorides 21600 ppm System LCM —

Blow Description IF - 1" blow
ISI - No return
FF - 1/2" blow
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>Mud with spots of oil</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 45' BHT 106° Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>1757</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>12:06am</u>
(B) First Initial Flow <u>29</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>1:08am</u>
(C) First Final Flow <u>33</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>3:19am</u>
(D) Initial Shut-In <u>1164</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>6:19am</u>
(E) Second Initial Flow <u>34</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>8:48am</u>
(F) Second Final Flow <u>39</u>	<input checked="" type="checkbox"/> Mileage <u>40 RT</u> 124	Comments
(G) Final Shut-In <u>1162</u>	<input type="checkbox"/> Sampler	<u>Brett loaded tools 3/28 @ 15:30</u>
(H) Final Hydrostatic <u>1769</u>	<input checked="" type="checkbox"/> Straddle 600	<input type="checkbox"/> Ruined Shale Packer

Initial Open 30 Shale Packer
 Initial Shut-In 45 Ruined Packer
 Final Flow 45 Extra Packer
 Final Shut-In 60 Extra Recorder
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 2199 MP/DST Disc't

Approved By _____ Our Representative Cody Bloodorn

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

OPERATOR

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

Contact Geologist: TOM DENNING
 Contact Phone Nbr: 785-628-2593
 Well Name: HENMAN UNIT # 1
 Location: SE SW SW SW Sec.6-15s-19w
 Pool: WILDCAT
 State: KANSAS

API: 15-051-26,485-00-00
 Field: UNNAMED
 Country: USA



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

Scale 1:240 Imperial

Well Name: HENMAN UNIT # 1
 Surface Location: SE SW SW SW Sec.6-15s-19w
 Bottom Location:
 API: 15-051-26,485-00-00
 License Number: 4787
 Spud Date: 3/22/2013 Time: 6:30 PM
 Region: ELLIS COUNTY
 Drilling Completed: 3/28/2013 Time: 2:21 PM
 Surface Coordinates: 100' FSL & 625' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 2038.00ft
 K.B. Elevation: 2048.00ft
 Logged Interval: 2250.00ft To: 3685.00ft
 Total Depth: 3700.00ft
 Formation: LANSING-KANSAS CITY
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 100' FSL
 E/W Co-ord: 625' FWL

LOGGED BY

Company: SOLUTIONS CONSULTING, INC.
 Address: 108 W 35TH
 HAYS, KS 67601

Phone Nbr: (785) 639-1337
 Logged By: Geologist Name: HERB DEINES

CONTRACTOR

Contractor: SOUTHWIND DRILLING INC.
 Rig #: 1
 Rig Type: MUD ROTARY

Rig Type: MUD ROTARY
 Spud Date: 3/22/2013
 TD Date: 3/28/2013
 Rig Release: 3/28/2013

Time: 6:30 PM
 Time: 2:21 PM
 Time: 9:30 PM

ELEVATIONS

K.B. Elevation: 2048.00ft Ground Elevation: 2038.00ft
 K.B. to Ground: 10.00ft

NOTES

RECOMMENDATION TO PLUG AND ABANDON WELL DUE TO NEGATIVE RESULTS OF TWO DSTS. WELL WAS LOGGED TO 3685' AND DEEPENED TO 3700' TO DETERMINE UNDERLYING LITHOLOGY OF CONGLOMERATE SAND SECTION.

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

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

FORMATION TOPS SUMMARY AND CHRONOLOGY OF DAILY ACTIVITY

Henman Unit # 1

100' FSL & 625' FWL, SW/4

Sec. 6-15s-19w

2038' GL 2048' KB

ORVILLE # 1

NE NE SW SE

Sec. 7-15s-19w

Reference Well


<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>	
Anhydrite	1290+ 758	1286+ 762	+760	-2
B-Anhydrite	1326+ 722	1322+ 726	+722	-4
Topeka		3040- 992		
Heebner Shale	3299-1251	3294-1246	-1247	- 1
Toronto	3321-1273	3319-1271	-1267	+4
LKC	3345-1297	3343-1295	-1293	+2
BKC	3595-1547	3592-1544	-1545	- 1
Marmaton	3640-1592	3642-1594	-1591	+3
Conglomerate SS	3680-1632		-1626	- 6
RTD	3700-1652			
LTD		3683-1635		

SUMMARY OF DAILY ACTIVITY

- 3-22-13 RU, spud 6:30 PM, set 8 5/8" surface pipe to 222.46' w/ 150 sacks
Common, 2%Gel, 3%CC, plug down 11:15 PM, WOC 8hrs, slope 1/2
- 3-23-13 224', drill plug at 8:15AM
- 3-24-13 1880'drilling,
- 3-25-13 2589', drilling, displaced 2621' to 2638'

- 3-26-13 3260', drilling
- 3-27-13 3685', DST # 1 3656' to 3685' Conglomerate sand, open hole logs
- 3-28-13 3685', DST # 2 straddle test LKC "H" 3460' to 3484', deepen well to 3700' RTD @2:21 PM, P&A, plugging complete at 9:30 PM
- 3-29-13 3700', finish tear down and move rig

DST # 1 CONVENTIONAL TEST OVER CONGLOMERATE SAND TEST SUMMARY PAGE

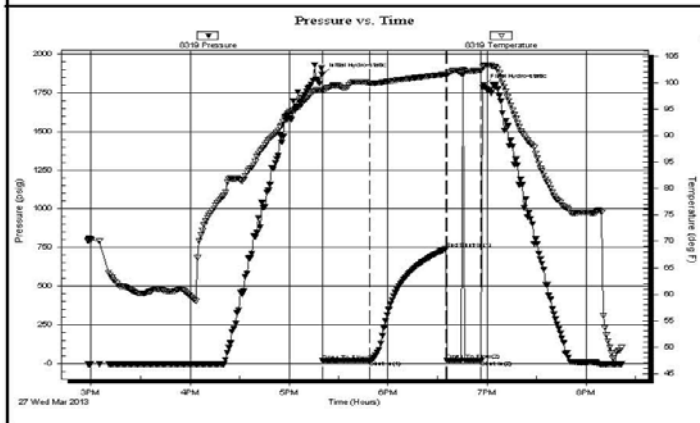
 <p>TRILOBITE TESTING, INC.</p>	DRILL STEM TEST REPORT		
	TDI Inc 1310 Bison RD Hays KS, 67601 ATTN: Herb	6-15s-19w Ellis KS Henman Unit #1 Job Ticket: 52164 DST#: 1 Test Start: 2013.03.27 @ 14:58:00	

GENERAL INFORMATION:

Formation: Cong. Sand	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Cody Bloedorn
Time Tool Opened: 17:20:30	Unit No: 59
Time Test Ended: 20:21:30	Reference Elevations: 2048.00 ft (KB)
Interval: 3656.00 ft (KB) To 3685.00 ft (KB) (TVD)	2038.00 ft (CF)
Total Depth: 3685.00 ft (KB) (TVD)	KB to GR/CF: 10.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair

Serial #: 8319	Outside	Capacity: 8000.00 psig
Press@RunDepth: 19.70 psig @ 3657.00 ft (KB)	End Date: 2013.03.27	Last Calib.: 2013.03.27
Start Date: 2013.03.27	End Time: 20:21:29	Time On Btm: 2013.03.27 @ 17:20:00
Start Time: 14:58:05		Time Off Btm: 2013.03.27 @ 18:58:00

TEST COMMENT: 30 - IF- 3/4" blow
 45 - IS- No return
 20 - FF- No blow for 10 Minutes, flushed tool, surged and died. w waited 10 Min. Pulled tool.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1868.47	98.68	Initial Hydro-static
1	18.52	98.36	Open To Flow (1)
29	19.70	99.89	Shut-In(1)
75	741.64	101.58	End Shut-In(1)
76	20.15	101.43	Open To Flow (2)
97	21.77	102.32	Shut-In(2)
98	1797.74	103.15	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
15.00	Mud, with show of Oil, 100%M	0.21

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

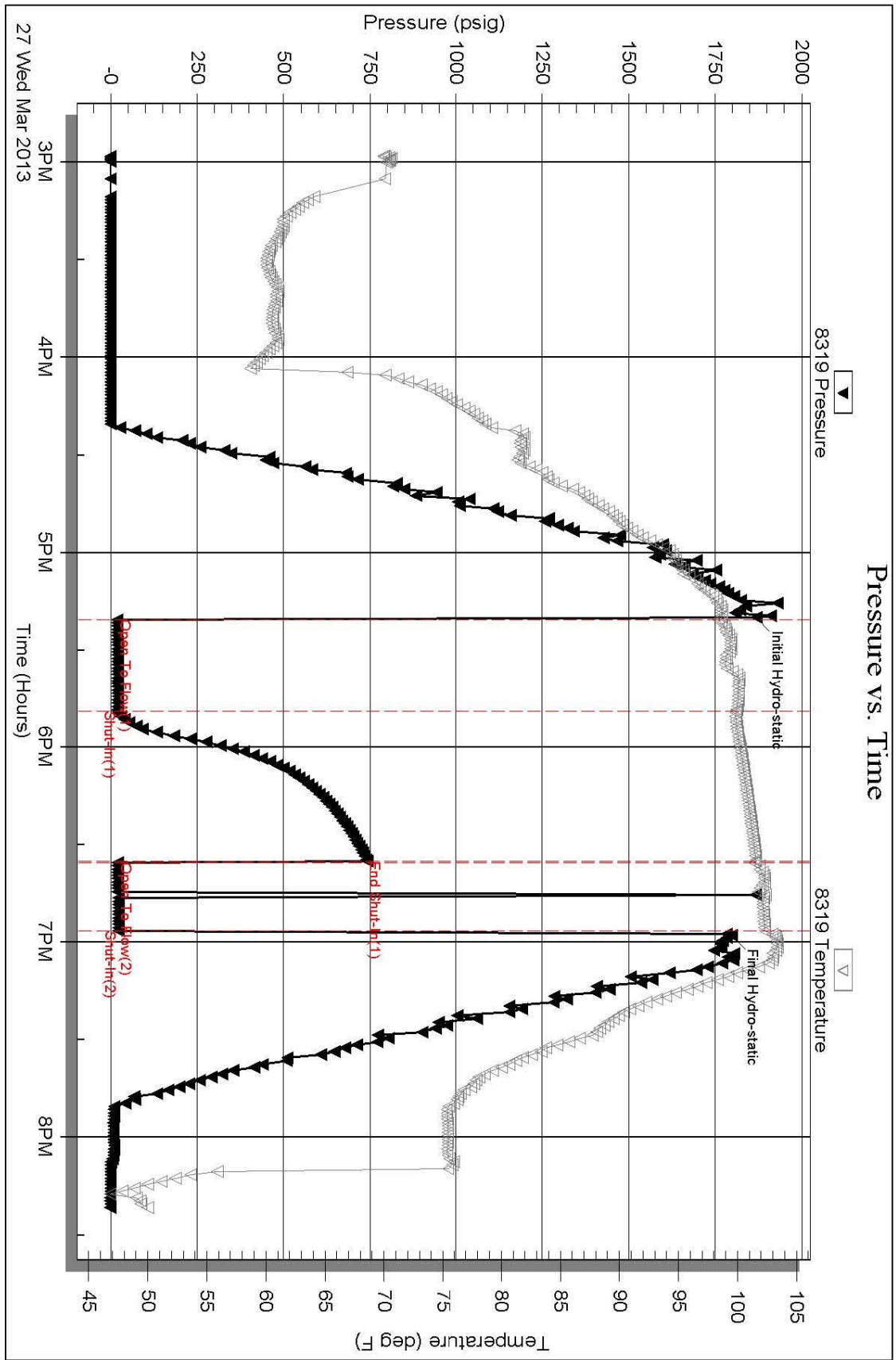
DST # 1 EXPANDED CHART

Serial #: 8319

Outside TDI Inc

Hennan Unit #1

DST Test Number: 1


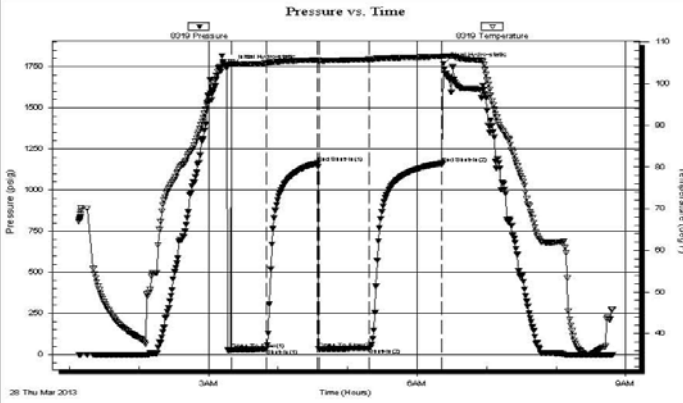


Trilobite Testing, Inc

Ref. No: 52164

Printed: 2013.03.28 @ 07:59:57

DST # 2 STRADDLE TEST OF LKC "H" ZONE TEST SUMMARY PAGE

	DRILL STEM TEST REPORT				
	TDI Inc 1310 Bison RD Hays KS. 67601 ATTN: Herb	6-15s-19w Ellis KS Henman Unit #1 Job Ticket: 52165 DST#: 2 Test Start: 2013.03.28 @ 01:08:05			
GENERAL INFORMATION:					
Formation: "H" Deviated: No Whipstock: ft (KB) Time Tool Opened: 03:20:00 Time Test Ended: 08:48:29		Test Type: Conventional Straddle (Reset) Tester: Cody Bloedorn Unit No: 59			
Interval: 3460.00 ft (KB) To 3484.00 ft (KB) (TVD) Total Depth: 3684.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair		Reference Elevations: 2048.00 ft (KB) 2038.00 ft (CF) KB to GR/CF: 10.00 ft			
Serial #: 8319 Inside					
Press@RunDepth: 39.09 psig @ 3480.00 ft (KB) Start Date: 2013.03.28 End Date: 2013.03.28 Start Time: 01:08:05 End Time: 08:48:29		Capacity: 8000.00 psig Last Calib.: 2013.03.28 Time On Btm: 2013.03.28 @ 03:19:30 Time Off Btm: 2013.03.28 @ 06:22:30			
TEST COMMENT: 30 - IF- 1" blow 45 - IS- No return 45 - FF- 1/2" blow 60 - FSI- No return					
	PRESSURE SUMMARY				
	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	
	0	1757.09	105.13	Initial Hydro-static	
	1	29.22	104.76	Open To Flow (1)	
	30	33.05	104.97	Shut-In(1)	
	75	1164.76	105.72	End Shut-In(1)	
	76	34.34	105.43	Open To Flow (2)	
	119	39.09	105.88	Shut-In(2)	
	182	1162.82	106.53	End Shut-In(2)	
	183	1769.98	106.75	Final Hydro-static	
Recovery		Gas Rates			
Length (ft)	Description	Volume (bbl)	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
45.00	Mud, w ith oil spots, 100% M	0.63			
* Recovery from multiple tests					

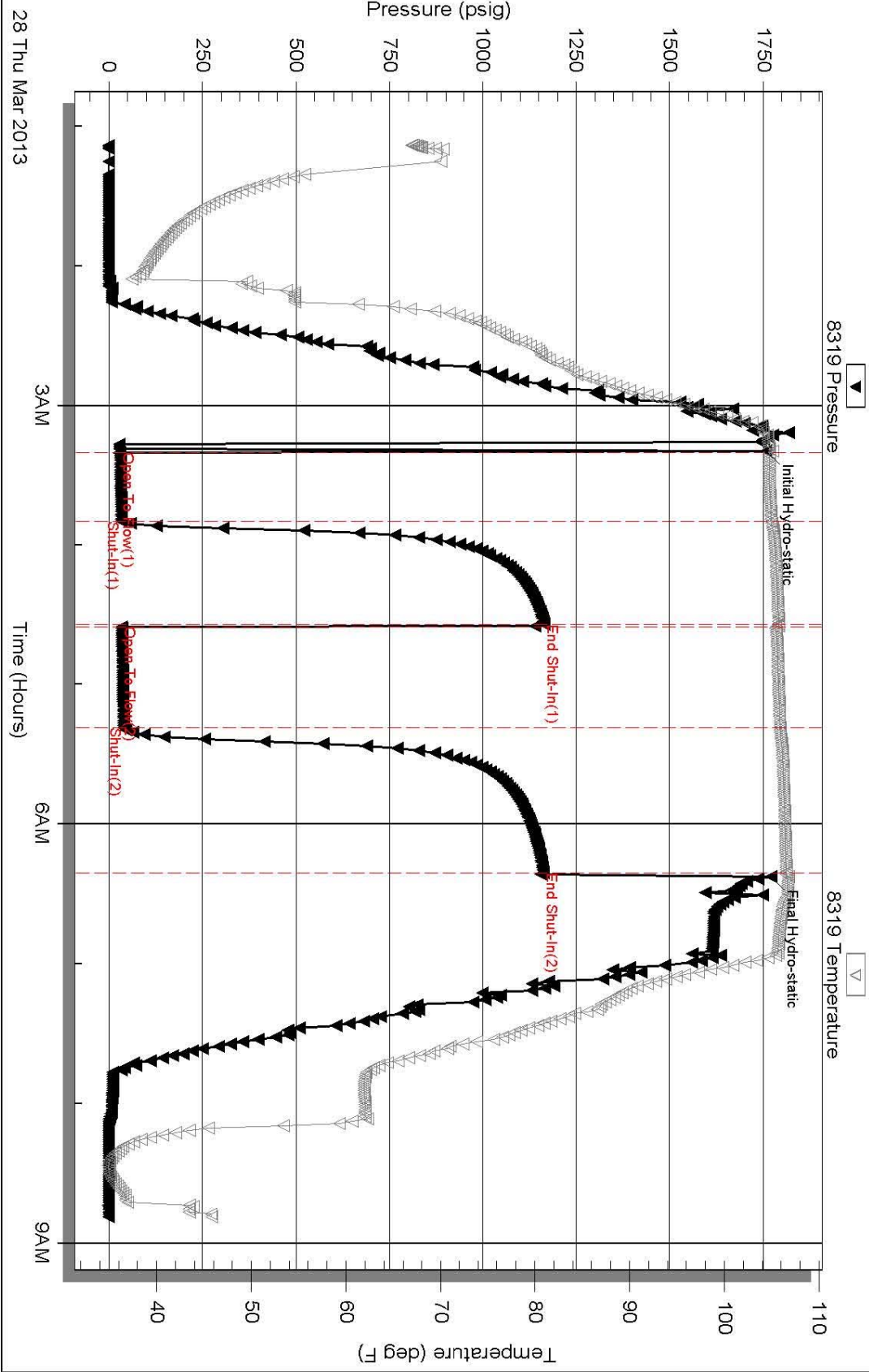
Trilobite Testing, Inc

Ref. No: 52165

Printed: 2013.03.28 @ 10:01:53

DST # 2 EXPANDED CHART

Pressure vs. Time



ROCK TYPES

- | | | | | | | | |
|--|-----------|--|------------|--|------------|--|----------|
| | Clystgy | | shale, grn | | shale, red | | Dol Lime |
| | Lmst fw<7 | | shale, gry | | Ss | | Lscongl |
| | Lmst fw>7 | | Carbon Sh | | Slst | | CglSandy |

ACCESSORIES

MINERAL

- ▲ Chert, dark
- P Pyrite
- Sandy
- ◊ Varicolored chert
- △ Chert White

FOSSIL

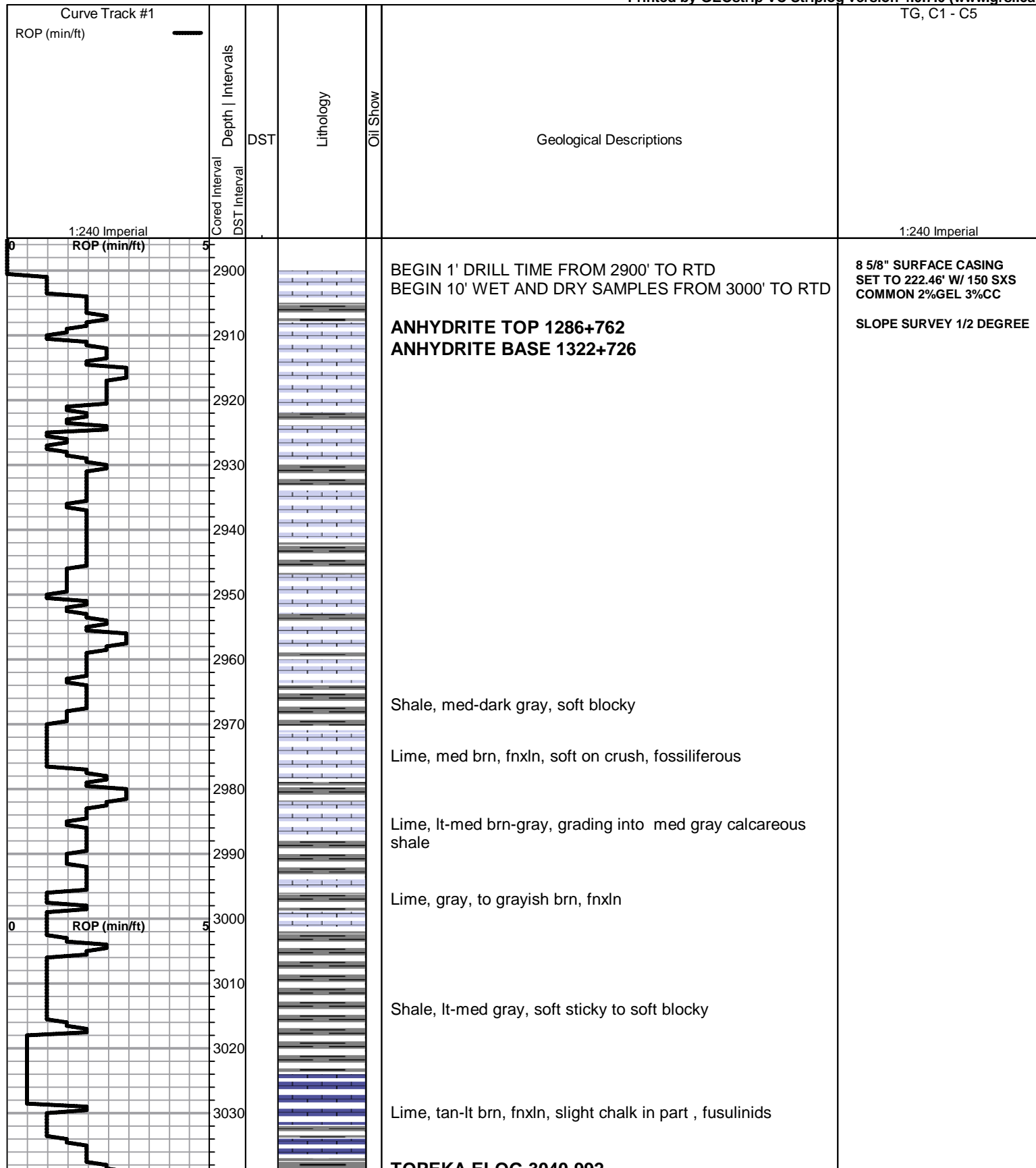
- Oolite

OTHER SYMBOLS

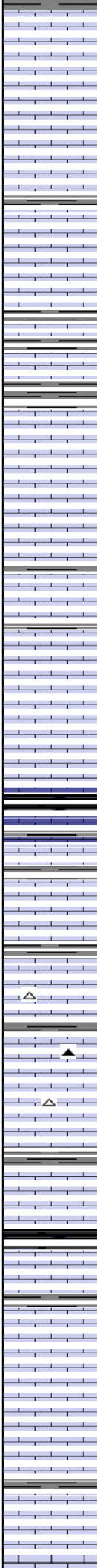
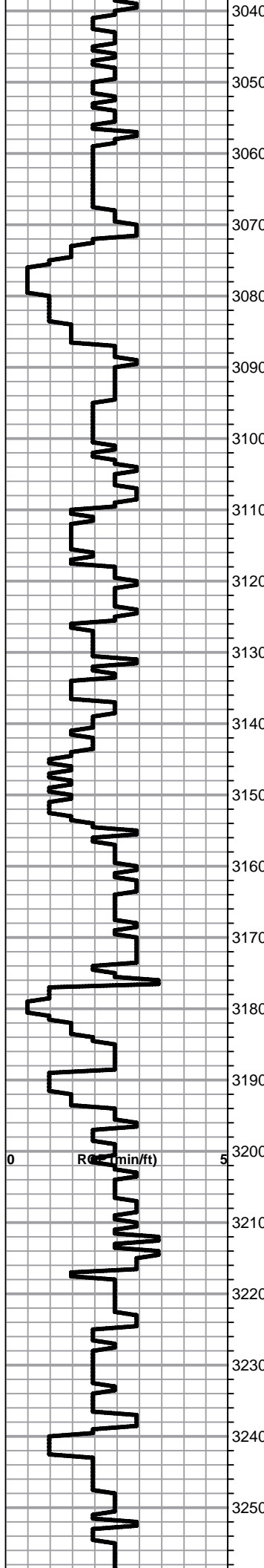
DST

- DST Int
- DST alt
- Core

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



TOPEKA ELOG 3040-992



Lime, lt-med brn, fnxln, soft on crush, chalk in part, slightly fossiliferous, scattered vfxln brn lime.

Lime, tan-lt gray, fnxln, chalk in part

Lime, lt-med brn-dark grayish brn, fnxln, scattered fossils

Lime, lt-med brn, soft crumbly, sticky chalk clumps in part, NS

Lime, lt-med brn-gray, fnxln, chalk in lighter color limes.

Lime, lt-med brn-gray, fnxln

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

Lime, lt-med brn-gray, fnxln-granular, stickly chalk clumps in part

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

Lime,lt-med brn, granular, slight chalk

Lime, brn-gray, granular
Shale, black carbonaceous, fissile, blocky

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

Lime. crm, fnxln, bedded chalk

Lime, lt-med brn, slight bedded chalk in part, NS

Lime, lt-med brn, fnxln-granular, slight bed chalk, NS

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

Shale, lt-med gray, calcareous, soft blocky

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

Shale, black carbonaceous, fissile, blocky
Lime, lt-med brn-grayish brn, fnxln

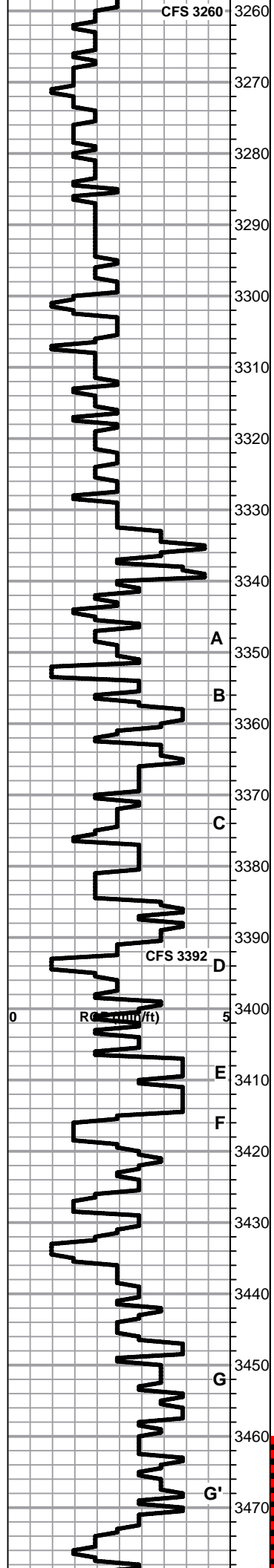
* Lime, lt brn-lt grayish brn, bed chalk with chalky matrix in part, , V LT Odor, NFO, NO STAINING

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

Lime, offwhite-lt brn, fnxln, chalk and chalky matrix

* Lime, crm, mostly fnxln, soft on crush, few chips granular with lt odor and scattered specks of oil on crush.

ZONE DIDN'T APPEAR WELL DEVELOPED WITH TYPE OF GRANULAR LIME FOUND ASSOCIATED WITH THIS



Lime, lt brn, mostly granular w/ chalk matrix and bedded chalk, NS

Lime, lt-med brn, granular with increasing fnxln, bed chalk with scattered fusulinids

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

HEEBNER SHALE SPL 3299-1251 ELog 3294-1246

Shale, black carbonaceous, fissile, blocky
Lime, tan-med brn-grayish brn, fn-vfxln

Shale, lime green, soft blocky to forming soft mud

TORONTO SPL 3321-1273 ELog 3319-1271

Lime, crm-lt brn, fnxln, bed chalk, NS

Lime, lt brn, chalk in part, NS
Shale, red wash grading into soft gray shale

LKC SPL 3345-1297 ELog 3343-1295

Lime, crm, brn, grays, fnxln

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

* Lime, mostly lt-med brn, soft with chalk, few oolmoldic, VLT ODOR, NFO, NO STAIN

MICROLOG SHOWS ZONE IN THIS INTERVAL TO BE VERY THIN AND POORLY DEVELOPED

Lime, crm-lt brn, fnxln-granular, lot of bedded chalk

Lime, crm-lt brn, fnxln, bedded chalk

Lime, lt brn, granular, scattered fine pinpt vuggy porosity, NS, No Wet Cut

Shale, gray-black carbonaceous, soft blocky
Lime, lt gray, fnxln

○ Lime, crm, fnxln-granular, trace of lt spotty stain, NFO, NO ODOR, looks wet on log

Lime, crm-lt brn, fnxln, soft on crush, bedded chalk

Lime, crm, fnxln, bedded chalk

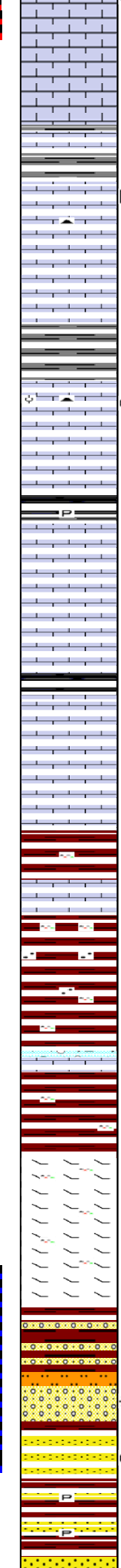
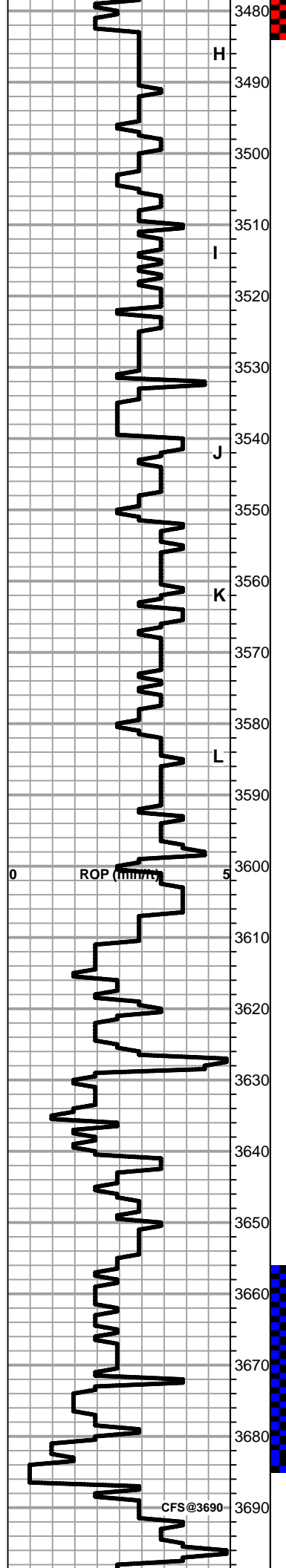
Lime, crm, fn-micro xln, slight bed chalk

Lime, offwhite-crm, fnxln, slight bed chalk, hard on crush

Lime, offwhite-crm, fnxln, slight bed chalk, hard on crush

DST # 1 3460' TO 3484'
STRADDLE TEST SEE HEADER FOR TEST SUMMARY

Shale, med gray-black carbonaceous, soft blocky
Lime, crm-lt brn, mostly fnxln, few small chips with trace of



oil stain, VLT ODOR in interfossiliferous porosity, Appears to be thin zone.

H 3480

3490 Lime, crm-lt brn, fnxln

3500 Shale, lime green-med gray, soft blocky, soft mud in part

D 3510 Lime, crm, mostly fnxln, scattered fine dead oil specks in fine, poorly developed, inter xln porosity, NFO, NO ODOR

I 3520 Lime, crm-lt brn, fn-vfxln, slight chalk

3530 Lime, crm-lt brn, fnxln, bed chalk
Shale, gray-grayish green, calcareous,

O 3540 Lime, crm-lt brn, very thin oolitic bed, lt spotty stain in 1 chip, NFO, NO ODOR

J 3550 Lime, crm-lt brn, fn-vfxln, bed chalk

3560 Shale, med-dark gray, soft blocky

K 3570 Lime, crm-lt brn, fn-vfxln, bed chalk

3580 Lime, crm-lt brn, fnxln, bedded chalk

3590 Shale, med gray -black carbonaceous, soft blocky

L 3600 Lime, crm-tan-lt brn, fn-vfxln, bedded chalk

BKC SPL 3595-1547 ELog 3592-1544

3610 Shale, reddish brn, firm blocky-lt red wash

Lime, lt gray, fine-vfxln, granular, hard on crush

3620 Shale, reddish brn, soft-firm blocky, slightly sandy in part

3630 Shale, reddish brn, soft

Lime, crm, vfxln

3640 Shale, reddish brn, soft blocky

Lime, crm-lt brn, fnxln, dolomitic, orange chert, fresh, sharp

3650 Lime, crm-lt brn, fnxln, dolomitic

3660 Lime, crm-lt brn, fnxln, dolomitic

Mix of vari color cherts, cemented sand clusters and red shale,

3670 Siltstone, white, sticky

* Sandstone, quartz, poorly developed, cemented, VLT ODOR

● SS, quartz, cemented to friable in part, p-f sorting, angular, IT ODOR, partial-saturated staining, lt SFO

3680 Shale, reddish brn-dark brn, soft-firm blocky, very little odor

3690 SS, quartz, hard clusters to fused solid, pyrite in part

DST # 1 3656' TO 3685' SEE HEADER FOR TEST SUMMARY

ORIGINAL RTD 3685 LTD 3683 WELL DEEPEEN TO 3700' TO DETERMINE UNDERLYING LITHOLOGY

DIDN'T CALL REAGAN SAND DUE TO HARDNESS OF QUARTZ MATERIAL IN THE LAST SAMPLE

3700

END OF LINE

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. 6551

Date	3-22-13	Sec.	10	Twp.	15	Range	19	County	ELLIS	State	KANSAS	On Location		Finish	11:15 PM
------	---------	------	----	------	----	-------	----	--------	-------	-------	--------	-------------	--	--------	----------

Location Antonia 40-19-74 W

Lease	<u>HENMAN UNIT</u>	Well No.	<u>#1</u>	Owner	<u>T.D.I.</u>
Contractor	<u>GLD #1</u>	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.			
Type Job	<u>SURFACE</u>	Charge To <u>T.D.I.</u>			
Hole Size	<u>12 1/4"</u>	T.D.	<u>334'</u>	Street	<u>1310 BISON RD</u>
Csg.	<u>8 1/2'</u>	Depth	<u>222'</u>	City	<u>Hays</u> State <u>KS 67601</u>
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tool		Depth		Cement Amount Ordered	<u>150 sks Com 302-2 gal</u>
Cement Left in Csg.		Shoe Joint			
Meas Line		Displace	<u>13 BBL</u>		

EQUIPMENT

Pumptrk # <u>15</u>	No.	Cementer		Common	<u>150</u>
		Helper	<u>NICK W.</u>	Poz. Mix	
Bulktrk # <u>14</u>	No.	Driver		Gel.	<u>3</u>
		Driver	<u>LONGER M.</u>	Calcium	<u>5</u>
Bulktrk # <u>14</u>	No.	Driver		Hulls	
		Driver	<u>CHUCK H.</u>	Salt	

JOB SERVICES & REMARKS

Remarks:	
Rat Hole	Flowseal
Mouse Hole	Kol-Seal
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
D/V or Port Collar	Sand
	Handling <u>158</u>

CEMENT DID CIRCULATE

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge Surface
Mileage 14

THANK YOU!

Signature <u>Ruby K</u>	Tax	
	Discount	
	Total Charge	

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 6475

Cell 785-324-1041

Date	3-28-13	Sec.	6	Twp.	15	Range	19	County	Ellis	State	KS	On Location		Finish	9:30 p.m.
Lease								Location				Antonia 40 15 3/4 W Vinto			
Lease								Well No. 1				Owner			
Contractor								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.			
Type Job								Charge To				T.D.I.			
Hole Size								T.D.				Street			
Csg.								Depth				City			
Tbg. Size								Depth				State			
Tool								Depth				The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.								Shoe Joint				Cement Amount Ordered			
Meas Line								Displace				Common			
EQUIPMENT								Poz. Mix				Gel.			
Pumptrk								Driver				Calcium			
Bulktrk								Driver				Hulls			
Bulktrk								Driver				Salt			
JOB SERVICES & REMARKS								Flowseal				Kol-Seal			
Remarks:								Mud CLR 48				CFL-117 or CD110 CAF 38			
Rat Hole								Sand				Handling			
Mouse Hole								Mileage				FLOAT EQUIPMENT			
Centralizers								Guide Shoe				Centralizer			
Baskets								Baskets				AFU Inserts			
D/V or Port Collar								Float Shoe				Latch Down			
1st 1320 255K								Pumptrk Charge				Tax			
2nd 537 1005K								Mileage				Discount			
3rd 275 405K												Total Charge			
4th 40 105K															
Signature															

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

May 21, 2013

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

Re: ACO1
API 15-051-26485-00-00
Henman Unit 1
SW/4 Sec.06-15S-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