



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

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: _____



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 <table style="width:100%; border: none;"> <tr> <td style="width:70%; border: none;">Name</td> <td style="width:15%; border: none;">Top</td> <td style="width:15%; border: none;">Datum</td> </tr> </table>	Name	Top	Datum
Name	Top	Datum		

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

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

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> _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Double D's LLC
Well Name	Reichert 3
Doc ID	1155992

All Electric Logs Run

Dual Induction
Micro
Neutron Density
Sonic

Form	ACO1 - Well Completion
Operator	Double D's LLC
Well Name	Reichert 3
Doc ID	1155992

Tops

Name	Top	Datum
Anhydrite	1164	+823
Base	1206	+781
Topeka	2956	+969
Heebner	3238	-1251
Toronto	3257	-1270
Lansing	3284	-1297
BKC	3532	-1545
Congl. Sd	3614	-1627
Arbuckle	3644	-1656

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. 6705

Date	6-26-13	Sec.	23	Twp.	15	Range	19	County	Ellis	State	KS	On Location	12:30pm	Finish	2:45pm
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Lease Reichert Well No. 3 Location Antinno 3 1/2 S Winte

Contractor Balay I Owner To Quality Oilwell Cementing, Inc.
Type Job Surface 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. 1169 Charge To Double D's

Csg. 858 Depth 1169 Street Double D's

Tbg. Size _____ Depth _____ City _____ State _____

Tool _____ Depth _____ The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. 12042 Shoe Joint 12042 Cement Amount Ordered 450 3% CC 2% gel

Meas Line _____ Displace 73.5 BBL

EQUIPMENT			
Pumptrk	15	No. Cementer	Common <u>450</u>
		Helper	Poz. Mix
Bulktrk	19	No. Driver	Gel. <u>9</u>
		Driver	Calcium <u>16</u>
Bulktrk	04	No. Driver	Hulls
		Driver	Salt

Remarks: ~~Cement~~

Rat Hole ~~Cement~~

Mouse Hole _____

Centralizers _____

Baskets _____

D/V or Port Collar _____

~~Cement did~~

~~Extrude~~

Cement Circulated

Handling 475

Mileage _____

FLOAT EQUIPMENT

Guide Shoe _____

Centralizer _____

Baskets _____

AFU Inserts _____

Float Shoe _____

Latch Down _____

Beffle plate _____

Rubber Plug _____

Pumptrk Charge Long Surface

Mileage 13

Signature Doug Budig

Tax	
Discount	
Total Charge	

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. 7966

Date	7-2-13	Sec.	23	Twp.	15	Range	19	County	Ellis	State	KS	On Location		Finish	2:00 P.M.
Lease								Well No.		Location					
Reigher T								3		Antonino 3 1/2 Winto					
Contractor								Owner							
Royal #1								To Quality Oilwell Cementing, Inc.							
Type Job								You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Production String															
Hole Size				T.D.				Charge To							
2 1/8				375'				Double D's							
Csg.				Depth				Street							
4 1/2 11.60'				3749											
Tbg. Size				Depth				City				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							
44.26				44.26				235 Cem.							
Meas Line				Displace				500 gal mod Clear							
				5 7/2 B L											
EQUIPMENT								Common							
Pumptrk 15 No. Cementer								235							
Craig															
Helper								Poz. Mix							
Bulktrk No. Driver															
Wick								Gel.							
Bulktrk 14 No. Driver								Calcium							
Doug															
Driver								Hulls							
Driver								Salt							
JOB SERVICES & REMARKS								Flowseal							
Remarks:								Kol-Seal							
Rat Hole 30SK								Mud CLR 48 500 gal							
Mouse Hole 15SK								CFL-117 or CD110 CAF 38							
Centralizers								Sand							
Baskets								Handling							
D/V or Port Collar								Mileage							
4 1/2 set @ 3749. Insert @ 3704.75								FLOAT EQUIPMENT							
Est. Circulation. Pump 500 gal mod								Guide Shoe 4 1/2							
Clear & 10 BL spacer Cement								Centralizer 7							
Rathole + Mousehole. Cement 4 1/2 with								Baskets 2							
190 SK - Clear lines. Displace plug.								AFU Inserts							
Plug landed @ 1500#. Hold. Release								Float Shoe 1							
Pressure Dry.								Latch Down 1							
								Pumptrk Charge							
								13 Prod Long String							
								Mileage							
								Tax							
								Discount							
								Total Charge							
X Signature															



DRILL STEM TEST REPORT

Prepared For: **Double D's LLC**

122 E. 12th
Hays KS 67601

ATTN: Alan Downing

Reichert #3

23-15s-19w Ellis,KS

Start Date: 2013.06.29 @ 22:52:00

End Date: 2013.06.30 @ 04:43:45

Job Ticket #: 53920 DST #: 1

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

Printed: 2013.07.02 @ 14:49:56

Double D's LLC
23-15s-19w Ellis,KS
Reichert #3
DST # 1
Lansing H-I-J
2013.06.29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Double D's LLC

23-15s-19w Ellis, KS

122 E. 12th
Hays KS 67601

Reichert #3

Job Ticket: 53920

DST#: 1

ATTN: Alan Downing

Test Start: 2013.06.29 @ 22:52:00

GENERAL INFORMATION:

Formation: **Lansing H-I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:37:00

Time Test Ended: 04:43:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 43

Interval: 3406.00 ft (KB) To 3480.00 ft (KB) (TVD)

Reference Elevations: 1984.00 ft (KB)

Total Depth: 3480.00 ft (KB) (TVD)

1979.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press @ Run Depth: 253.91 psig @ 3472.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.29

End Date:

2013.06.30

Last Calib.:

2013.06.30

Start Time: 22:52:05

End Time:

04:43:44

Time On Btm:

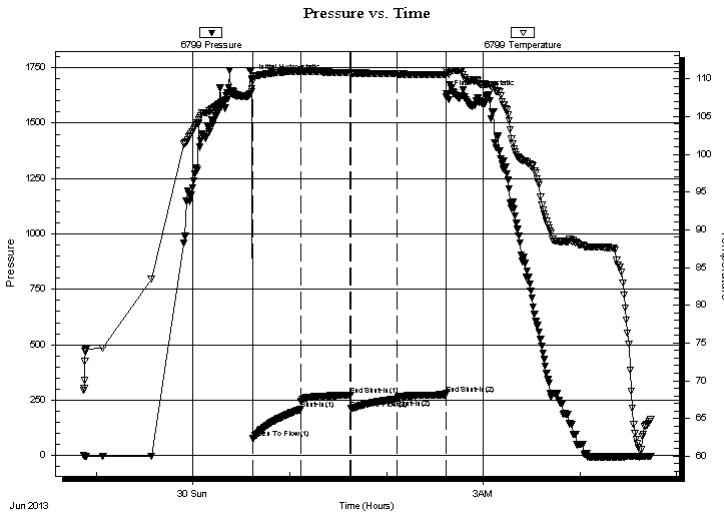
2013.06.30 @ 00:36:30

Time Off Btm:

2013.06.30 @ 02:37:15

TEST COMMENT: 30 - IF- B.O.B. in 8 minutes
30 - IS- No return
30 - FF- B.O.B. in 10 minutes
30 - FS- No return

PRESSURE SUMMARY



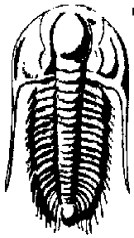
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1699.37	108.70	Initial Hydro-static
1	76.42	109.64	Open To Flow (1)
31	207.81	110.91	Shut-In(1)
61	272.34	110.77	End Shut-In(1)
62	211.28	110.73	Open To Flow (2)
90	253.91	110.63	Shut-In(2)
121	278.39	110.54	End Shut-In(2)
121	1630.89	111.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	MW, 20%M, 80%W	4.35
139.00	WM, 10%W, 90%M	1.95

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Double D's LLC

122 E. 12th
Hays KS 67601

ATTN: Alan Downing

23-15s-19w Ellis,KS

Reichert #3

Job Ticket: 53920

DST#: 1

Test Start: 2013.06.29 @ 22:52:00

GENERAL INFORMATION:

Formation: **Lansing H-I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:37:00

Time Test Ended: 04:43:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 43

Interval: 3406.00 ft (KB) To 3480.00 ft (KB) (TVD)

Reference Elevations: 1984.00 ft (KB)

Total Depth: 3480.00 ft (KB) (TVD)

1979.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8648 Outside

Press @ RunDepth: psig @ 3472.00 ft (KB)

Start Date: 2013.06.29

End Date:

2013.06.30

Start Time: 22:52:05

End Time:

04:42:59

Capacity: 8000.00 psig

Last Calib.: 2013.06.30

Time On Btm:

Time Off Btm:

TEST COMMENT:
30 - IF- B.O.B. in 8 minutes
30 - IS- No return
30 - FF- B.O.B. in 10 minutes
30 - FS- No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
310.00	MW, 20%M, 80%W	4.35
139.00	WM, 10%W, 90%M	1.95

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Double D's LLC

23-15s-19w Ellis,KS

122 E. 12th
Hays KS 67601

Reichert #3

Job Ticket: 53920

DST#: 1

ATTN: Alan Downing

Test Start: 2013.06.29 @ 22:52:00

Tool Information

Drill Pipe:	Length: 3397.00 ft	Diameter: 3.80 inches	Volume: 47.65 bbl	Tool Weight: 2000.00 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 47.65 bbl</u>	Tool Chased 15.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	3406.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	95.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3386.00	
Shut In Tool	5.00			3391.00	
Hydraulic tool	5.00			3396.00	
Packer	5.00			3401.00	21.00 Bottom Of Top Packer
Packer	5.00			3406.00	
Stubb	1.00			3407.00	
Perforations	1.00			3408.00	
Change Over Sub	1.00			3409.00	
Drill Pipe	62.00			3471.00	
Change Over Sub	1.00			3472.00	
Recorder	0.00	6799	Inside	3472.00	
Recorder	0.00	8648	Outside	3472.00	
Perforations	5.00			3477.00	
Bullnose	3.00			3480.00	74.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Double D's LLC

23-15s-19w Ellis,KS

122 E. 12th
Hays KS 67601

Reichert #3

Job Ticket: 53920

DST#: 1

ATTN: Alan Downing

Test Start: 2013.06.29 @ 22:52:00

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:

33000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
310.00	MW, 20%M, 80%W	4.348
139.00	WM, 10%W, 90%M	1.950

Total Length: 449.00 ft

Total Volume: 6.298 bbl

Num Fluid Samples: 0

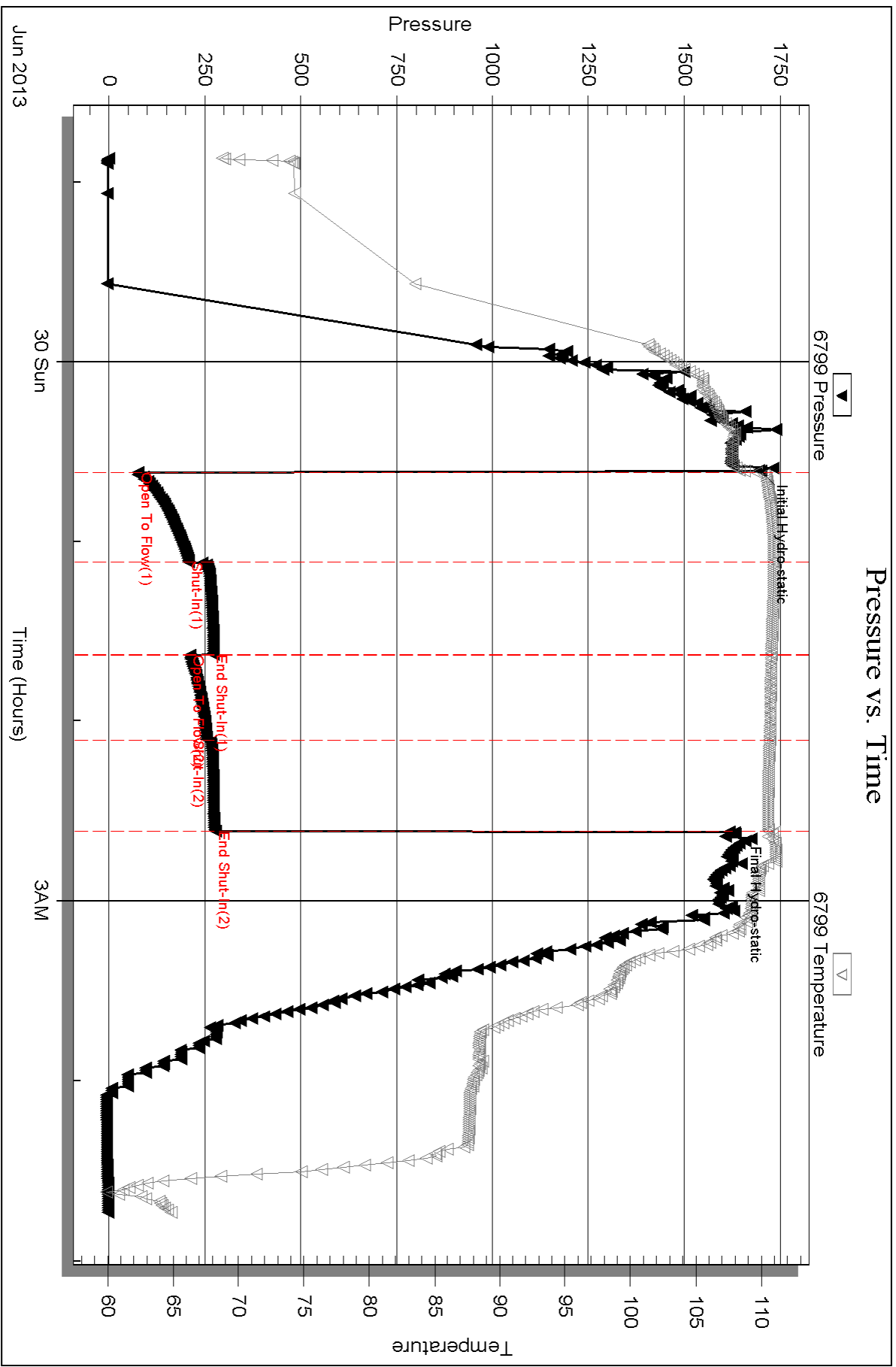
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

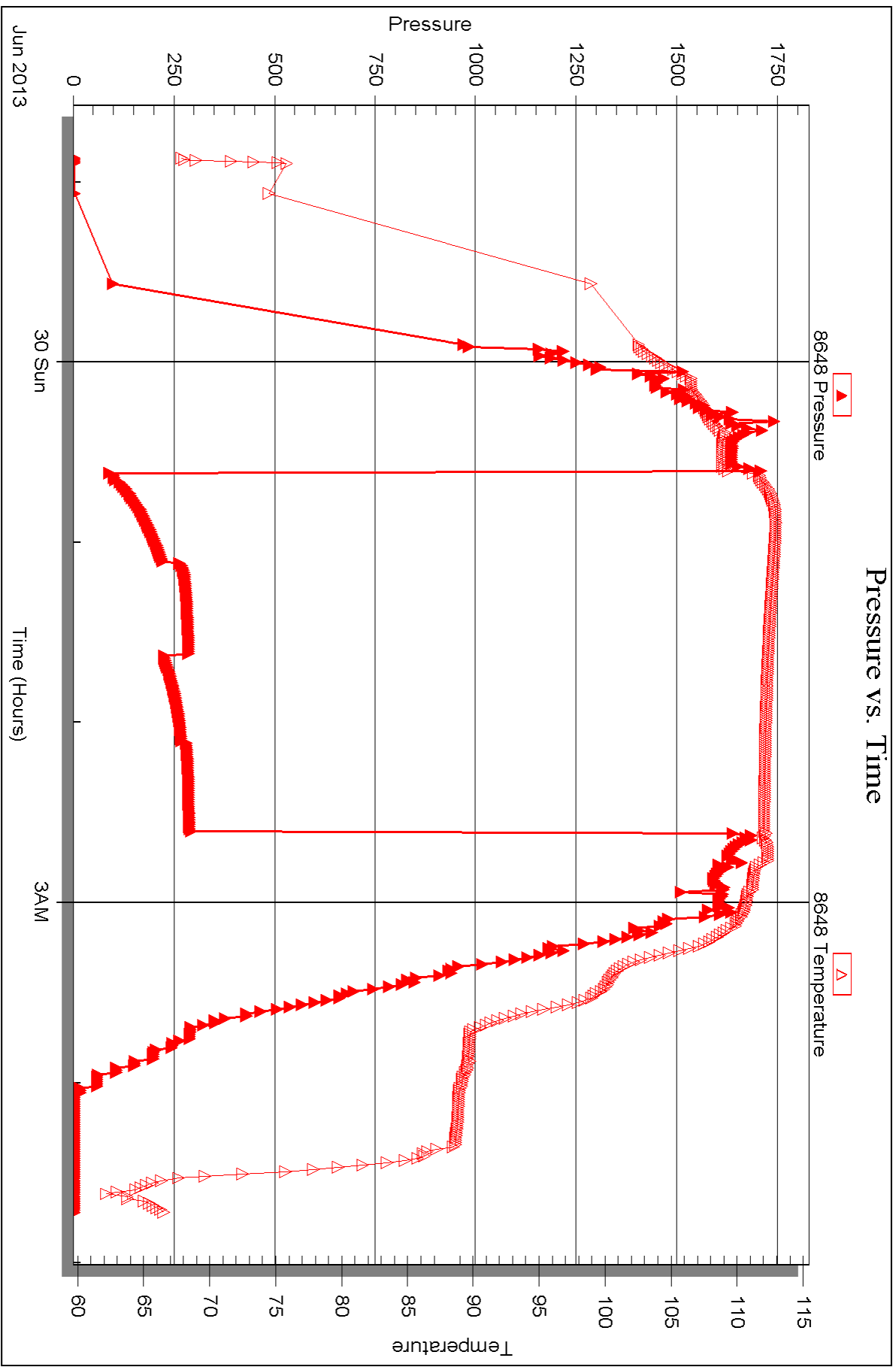


Serial #: 8648

Outside Double Ds LLC

Reichert #3

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Double D's LLC**

122 E. 12th
Hays KS 67601

ATTN: Alan Downing

Reichert #3

23-15s-19w Ellis,KS

Start Date: 2013.07.01 @ 11:22:00

End Date: 2013.07.01 @ 17:29:45

Job Ticket #: 53921 DST #: 2

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

Printed: 2013.07.02 @ 14:49:10

Double D's LLC
23-15s-19w Ellis,KS
Reichert #3
DST # 2
Cong. Sand
2013.07.01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Double D's LLC

23-15s-19w Ellis,KS

122 E. 12th
Hays KS 67601

Reichert #3

Job Ticket: 53921

DST#: 2

ATTN: Alan Downing

Test Start: 2013.07.01 @ 11:22:00

GENERAL INFORMATION:

Formation: **Cong. Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:40:15

Time Test Ended: 17:29:45

Test Type: Conventional Straddle (Reset)

Tester: Cody Bloedorn

Unit No: 43

Interval: 3595.00 ft (KB) To 3650.00 ft (KB) (TVD)

Reference Elevations: 1984.00 ft (KB)

Total Depth: 3750.00 ft (KB) (TVD)

1979.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press @ Run Depth: 463.56 psig @ 3630.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.01

End Date:

2013.07.01

Last Calib.:

2013.07.01

Start Time: 11:22:05

End Time:

17:29:44

Time On Btm:

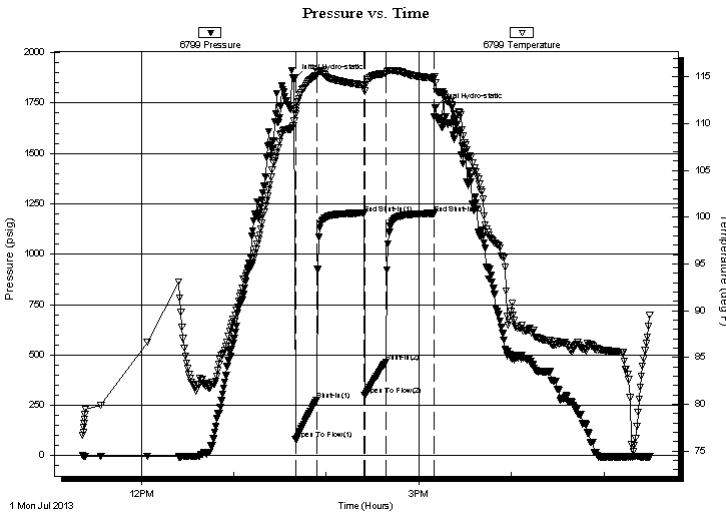
2013.07.01 @ 13:39:15

Time Off Btm:

2013.07.01 @ 15:10:45

TEST COMMENT: 15 - IF- B.O.B. in 1 minute
30 - IS- No return
15 - FF- B.O.B. in 1 minute
30 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1872.32	110.31	Initial Hydro-static
1	79.13	111.34	Open To Flow (1)
15	274.79	115.15	Shut-In(1)
45	1201.98	114.11	End Shut-In(1)
46	301.22	113.49	Open To Flow (2)
60	463.56	115.35	Shut-In(2)
91	1202.85	114.85	End Shut-In(2)
92	1727.25	114.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
682.00	MW, 10%M, 90%W	9.57
186.00	MW, 50%M, 50%W	2.61
124.00	WM, 20%W, 80%M	1.74

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Double D's LLC

23-15s-19w Ellis, KS

122 E. 12th
Hays KS 67601

Reichert #3

Job Ticket: 53921

DST#: 2

ATTN: Alan Downing

Test Start: 2013.07.01 @ 11:22:00

GENERAL INFORMATION:

Formation: **Cong. Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:40:15

Time Test Ended: 17:29:45

Test Type: Conventional Straddle (Reset)

Tester: Cody Bloedorn

Unit No: 43

Interval: **3595.00 ft (KB) To 3650.00 ft (KB) (TVD)**

Reference Elevations: 1984.00 ft (KB)

Total Depth: 3750.00 ft (KB) (TVD)

1979.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: **8648** Outside

Press @ Run Depth: psig @ 3630.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.01 End Date: 2013.07.01

Last Calib.: 2013.07.01

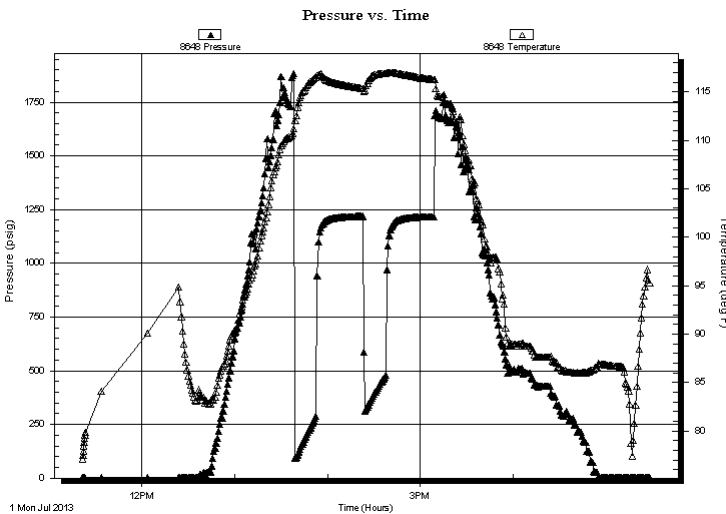
Start Time: 11:22:05 End Time: 17:28:14

Time On Btm:

Time Off Btm:

TEST COMMENT: 15 - IF- B.O.B. in 1 minute
30 - IS- No return
15 - FF- B.O.B. in 1 minute
30 - FS- No return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
682.00	MW, 10%M, 90%W	9.57
186.00	MW, 50%M, 50%W	2.61
124.00	WM, 20%W, 80%M	1.74

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Double D's LLC
122 E. 12th
Hays KS 67601
ATTN: Alan Downing

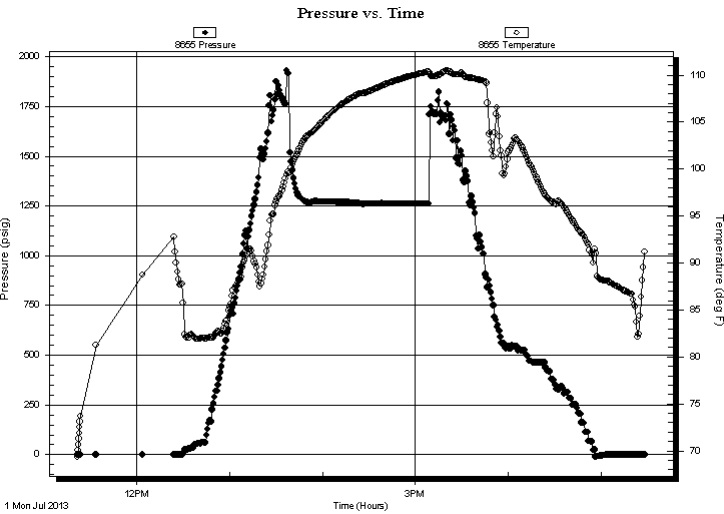
23-15s-19w Ellis,KS
Reichert #3
Job Ticket: 53921 **DST#: 2**
Test Start: 2013.07.01 @ 11:22:00

GENERAL INFORMATION:

Formation: **Cong. Sand**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle (Reset)
Time Tool Opened: 13:40:15 Tester: Cody Bloedorn
Time Test Ended: 17:29:45 Unit No: 43
Interval: 3595.00 ft (KB) To 3650.00 ft (KB) (TVD) Reference Elevations: 1984.00 ft (KB)
Total Depth: 3750.00 ft (KB) (TVD) 1979.00 ft (CF)
Hole Diameter: 7.88 inchesHole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8655 Below (Straddle)
Press@RunDepth: psig @ 3655.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.07.01 End Date: 2013.07.01 Last Calib.: 2013.07.01
Start Time: 11:22:05 End Time: 17:28:14 Time On Btm:
Time Off Btm:

TEST COMMENT: 15 - IF- B.O.B. in 1 minute
30 - IS- No return
15 - FF- B.O.B. in 1 minute
30 - FS- No return



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

Recovery

Length (ft)	Description	Volume (bbl)
682.00	MW, 10%M, 90%W	9.57
186.00	MW, 50%M, 50%W	2.61
124.00	WM, 20%W, 80%M	1.74

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Double D's LLC

23-15s-19w Ellis,KS

122 E. 12th
Hays KS 67601

Reichert #3

Job Ticket: 53921

DST#: 2

ATTN: Alan Downing

Test Start: 2013.07.01 @ 11:22:00

Tool Information

Drill Pipe:	Length: 3586.00 ft	Diameter: 3.80 inches	Volume: 50.30 bbl	Tool Weight: 2000.00 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 50.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3595.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	3650.00 ft			
Interval between Packers:	55.00 ft			
Tool Length:	180.00 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			3575.00	
Shut In Tool	5.00			3580.00	
Hydraulic tool	5.00			3585.00	
Packer	5.00			3590.00	21.00 Bottom Of Top Packer
Packer	5.00			3595.00	
Stubb	1.00			3596.00	
Perforations	1.00			3597.00	
Change Over Sub	1.00			3598.00	
Drill Pipe	31.00			3629.00	
Change Over Sub	1.00			3630.00	
Recorder	0.00	6799	Inside	3630.00	
Recorder	0.00	8648	Outside	3630.00	
Perforations	19.00			3649.00	
Blank Off Sub	1.00			3650.00	55.00 Tool Interval
Packer	4.00			3654.00	
Change Over Sub	1.00			3655.00	
Recorder	0.00	8655	Below	3655.00	
Drill Pipe	93.00			3748.00	
Change Over Sub	1.00			3749.00	
Perforations	2.00			3751.00	
Bullnose	3.00			3754.00	104.00 Bottom Packers & Anchor

Total Tool Length: 180.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Double D's LLC

23-15s-19w Ellis,KS

122 E. 12th
Hays KS 67601

Reichert #3

Job Ticket: 53921

DST#: 2

ATTN: Alan Downing

Test Start: 2013.07.01 @ 11:22:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length:

ft

Water Salinity:

30000 ppm

Viscosity: sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
682.00	MW, 10%M, 90%W	9.567
186.00	MW, 50%M, 50%W	2.609
124.00	WM, 20%W, 80%M	1.739

Total Length: 992.00 ft Total Volume: 13.915 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .25 @ 70 Degrees = 30, 000

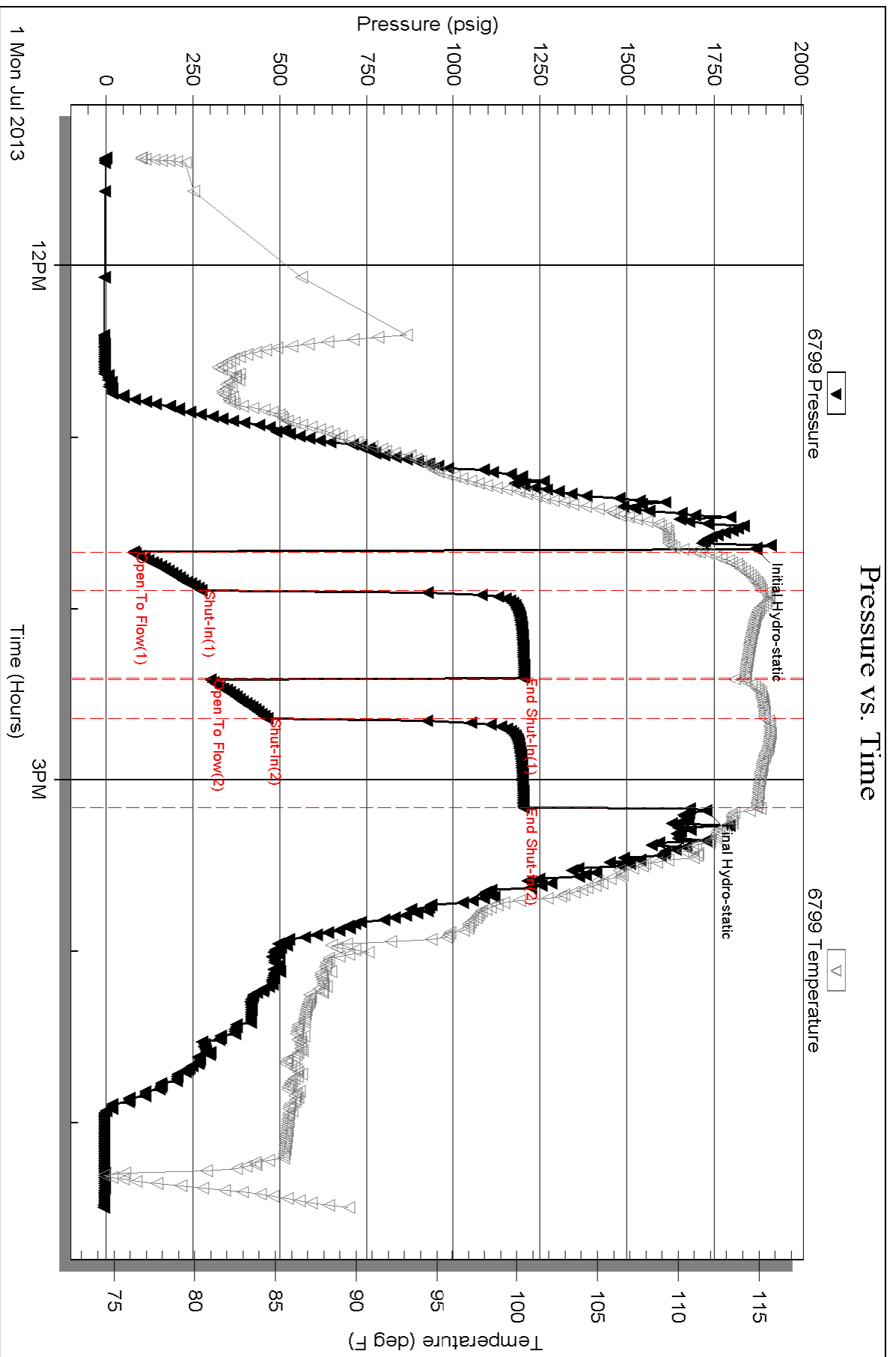
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Inside

Double Ds LLC

Reichert #3

DST Test Number: 2

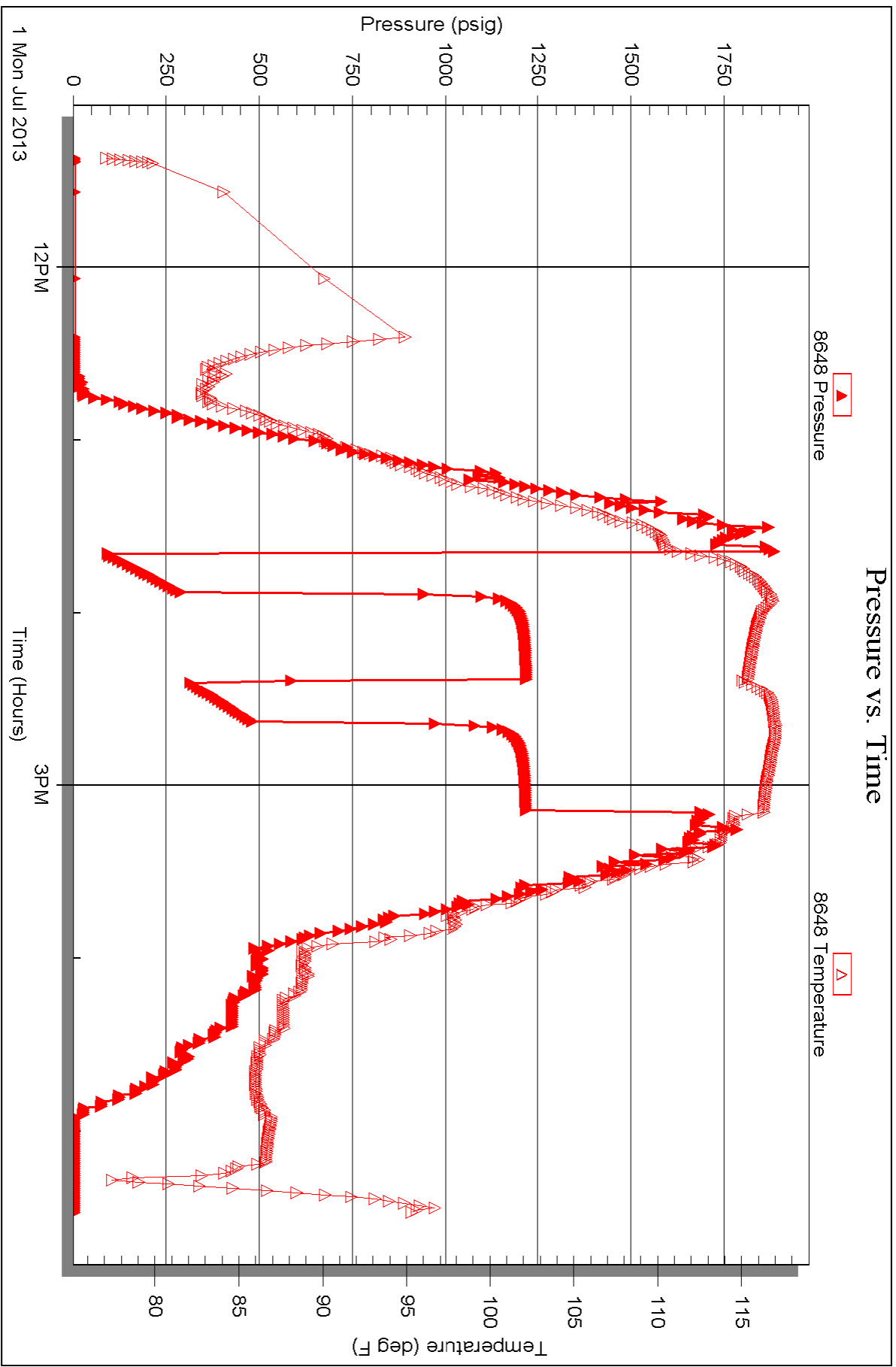


Serial #: 8648

Outside Double Ds LLC

Reichert #3

DST Test Number: 2

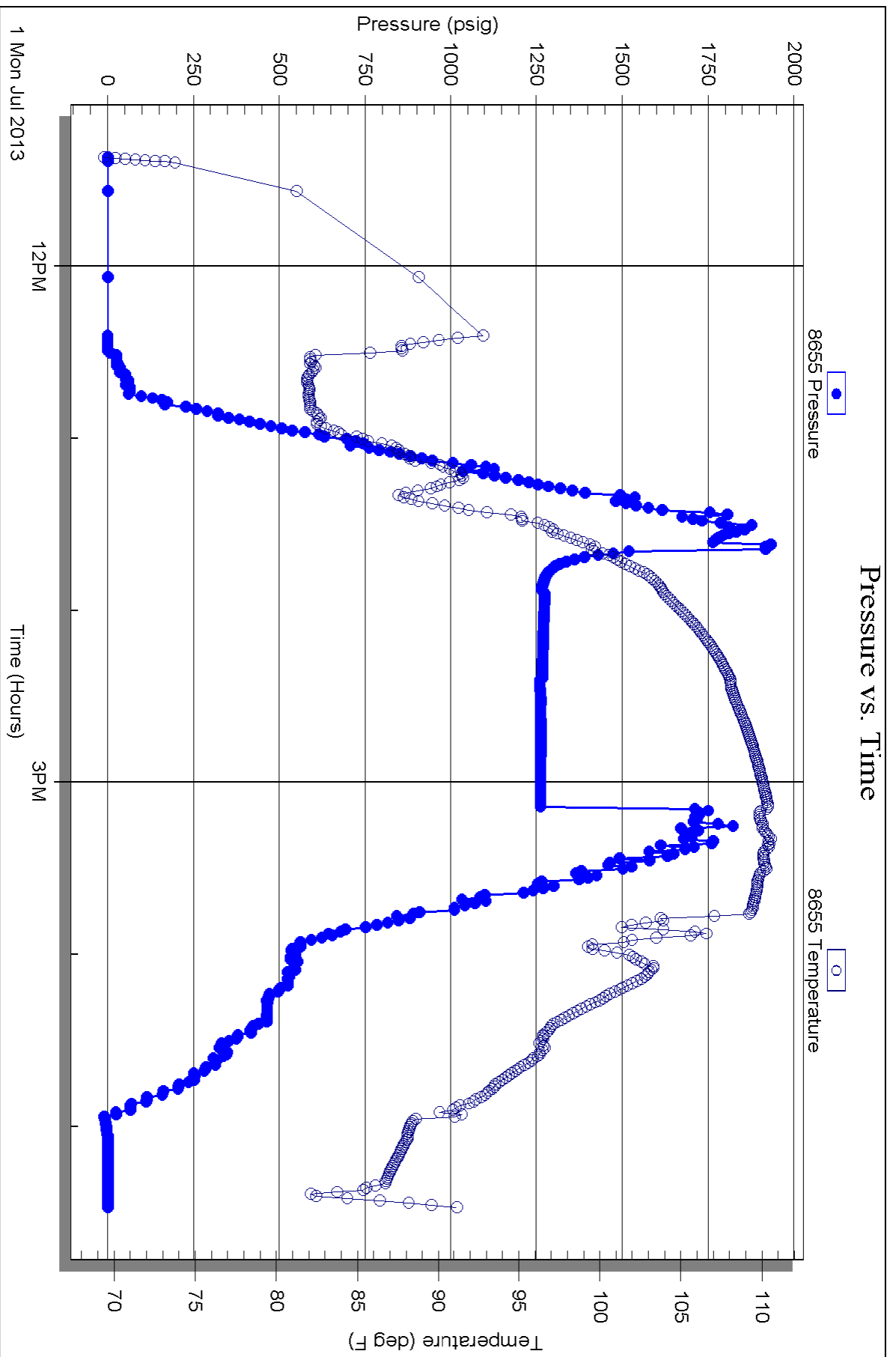


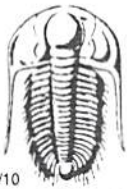
Serial #: 8655

Below (Stratified) Ds LLC

Reichert #3

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53920

Well Name & No. Reichert #3 Test No. 1 Date 6-29-13
 Company Double D's LLC Elevation 1984 KB 1979 GL
 Address 133 E. 12th, Hays KS, 67601
 Co. Rep / Geo. Allen Downing Rig Royal
 Location: Sec. 23 Twp. 15S Rge. 19W Co. Ellis State KS

Interval Tested 3406 - 3480 Zone Tested H-I-J
 Anchor Length 74' Drill Pipe Run 3397' Mud Wt. 8.9
 Top Packer Depth 3401 Drill Collars Run - Vis 60+
 Bottom Packer Depth 3406 Wt. Pipe Run - WL 7.2
 Total Depth 3480 Chlorides 1800 ppm System LCM 2#
 Blow Description IF- B.O.B. in 8 minutes
ISI- No return
FF- B.O.B. in 10 minutes
FSI- No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>310</u>	<u>MW</u>			<u>80</u>	<u>20</u>
<u>139</u>	<u>WM</u>			<u>10</u>	<u>90</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

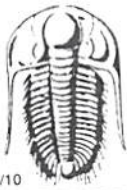
Rec Total 449' BHT 110° Gravity - API RW .25 @ 60° F Chlorides 33,000 ppm
 (A) Initial Hydrostatic 1699 Test 1150 T-On Location 9:40pm
 (B) First Initial Flow 76 Jars _____ T-Started 10:52pm
 (C) First Final Flow 207 Safety Joint _____ T-Open 12:37am
 (D) Initial Shut-In 272 Circ Sub _____ T-Pulled 2:37am
 (E) Second Initial Flow 211 Hourly Standby _____ T-Out 4:44am
 (F) Second Final Flow 253 Mileage 33 RT ^{51.15} Comments _____
 (G) Final Shut-In 278 Sampler _____
 (H) Final Hydrostatic 1630 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1201.15

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Sub Total 0
 Total 1201.15
 MP/DST Disc't _____

Approved By _____ Our Representative Cody Blush

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. 53921

Well Name & No. Reichert #3 Test No. 2 Date 7-1-13
 Company Double D's LLC Elevation 1984 KB 1979 GL
 Address 133 E. 12th, Hays KS, 67601
 Co. Rep / Geo. Allen Downing Rig Royal #1
 Location: Sec. 23 Twp. 15s Rge. 19w Co. Ellis State KS

Interval Tested 3595 - 3650 TD 3750 Zone Tested Cong. Sand
 Anchor Length 55' 100' tail Drill Pipe Run 3586 Mud Wt. _____
 Top Packer Depth 3590 Drill Collars Run _____ Vis _____
 Bottom Packer Depth 3595 Wt. Pipe Run _____ WL _____
 Total Depth 3650 Chlorides _____ ppm System LCM _____
 Blow Description IF - B.O.B. in 1 minute
ISI - No return
FF - B.O.B. in 1 minute
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>682</u>	<u>MW</u>		<u>90</u>	<u>10</u>	
<u>186</u>	<u>MW</u>		<u>50</u>	<u>50</u>	
<u>124</u>	<u>WM</u>		<u>20</u>	<u>80</u>	
_____	Feet of _____	%gas	%oil	%water	%mud
_____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 992' BHT 1140 Gravity _____ API RW 1.25 @ 70 °F Chlorides 30,000 ppm

(A) Initial Hydrostatic <u>1872</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>10:30am</u>
(B) First Initial Flow <u>79</u>	<input type="checkbox"/> Jars _____	T-Started <u>11:22am</u>
(C) First Final Flow <u>274</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>1:40pm</u>
(D) Initial Shut-In <u>1201</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>3:10pm</u>
(E) Second Initial Flow <u>301</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>5:30pm</u>
(F) Second Final Flow <u>463</u>	<input checked="" type="checkbox"/> Mileage <u>33RT</u> 51.15	Comments _____
(G) Final Shut-In <u>1202</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1727</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>15</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>15</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>191.67</u>
Final Shut-In <u>30</u>	<input checked="" type="checkbox"/> Day Standby <u>over 24hrs</u> 1d 5.75h	Total <u>1992.82</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1801.15</u>	

Approved By _____ Our Representative Cody Blum

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.