



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1318785  
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: \_\_\_\_\_

1318785

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <i>(Submit ACO-5)</i> <input type="checkbox"/> Commingled <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
--	--	---





**QUALITY OILWELL CEMENTING, INC.**

PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net

Date: 8/3/2016  
 Invoice # 1995

P.O.#:  
 Due Date: 9/2/2016  
 Division: Russell

# Invoice

**Contact:**  
 DOUBLE D'S  
**Address/Job Location:**

133 E 12TH  
 HAYS KS 67601

**Reference:**  
 REICHERT 4 SEC 23-15-19

**Description of Work:**  
 LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable
Labor		\$ 467.97	No
Common-Class A	360	\$ 3,761.36	Yes
POZ Mix-Standard	90	\$ 396.53	Yes
Calcium Chloride	16	\$ 563.95	Yes
Bulk Truck Matl-Material Service Charge	475	\$ 298.97	No
Pump Truck Mileage-Job to Nearest Camp	14	\$ 39.65	No
Premium Gel (Bentonite)	9	\$ 164.28	Yes
Bulk Truck Mileage-Job to Nearest Bulk Plant	14	\$ 30.84	No

Item	Quantity	Price	Taxable
8 5/8" Centralizer	3	\$120.85	Yes

**Invoice Terms:**

Net 30

SubTotal: \$ 5,989.17  
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (149.73)

SubTotal for Taxable Items: \$ 5,022.94  
 SubTotal for Non-Taxable Items: \$ 816.50

Total: \$ 5,839.44  
 Tax: \$ 351.61

7.00% Ellis County Sales Tax

**Amount Due: \$ 6,191.05**  
**Applied Payments:**  
**Balance Due: \$ 6,191.05**

**Thank You For Your Business!**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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# 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. 1995

Date	8-3-16	Sec.	23	Twp.	15	Range	19	County	Ellis	State	KS	On Location		Finish	10:30pm
								Location Antonino 55							

Lease	Rexchert	Well No.	4	Owner	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.
Contractor	Koyal #1				
Type Job	Surface				
Hole Size	12 1/4	T.D.	1172	Charge To	Deeble D'S
Csg.	8 5/8	Depth	1172	Street	
Tbg. Size		Depth		City	State
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered 450 <sup>80</sup> 20.3/11 2/1682	
Meas Line		Displace	73BC		

**EQUIPMENT**

Pumptrk	20	No.	Cementer	Craig	Common	360
			Helper		Poz. Mix	<del>90</del> 90
Bulktrk		No.	Driver	Brett	Gel.	9
Bulktrk	19	No.	Driver	Billy	Calcium	16

**JOB SERVICES & REMARKS**

Remarks:		Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	425
		Mileage	

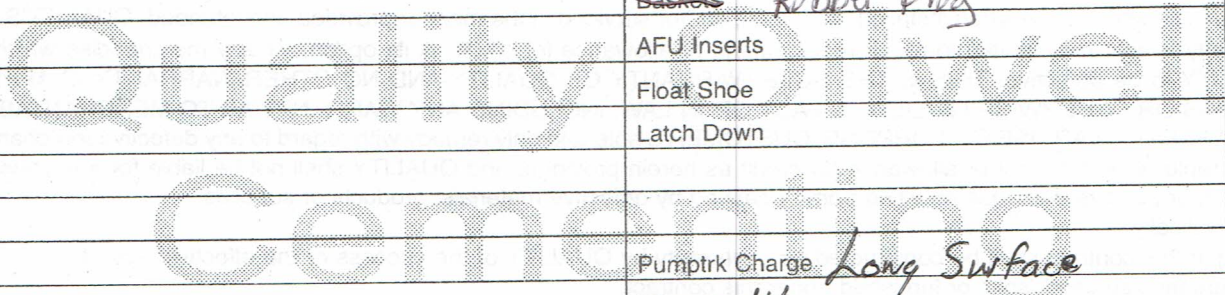
**FLOAT EQUIPMENT**

		Guide Shoe	8 5/8 Bebble Plate
		Centralizer	3
		Baskets	Rubber Plug
		AFU Inserts	
		Float Shoe	
		Latch Down	

Pumptrk Charge Long Surface  
Mileage 14

Tax	
Discount	
Total Charge	

X Signature Doug Buey



8 5/8 on bottom. Est. Circulation.  
Bell Perse @ 1152. Mix 450SK &  
Displace Plug  
Cement Circulated  
Plug low @ 800#



**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net

Date: 8/11/2016  
 Invoice # 1999

P.O.#:  
 Due Date: 9/10/2016  
 Division: Russell

# Invoice

Contact:  
 DOUBLE D'S  
 Address/Job Location:

133 E 12TH  
 HAYS KS 67601

Reference:  
 REICHART 4

Description of Work:  
 PROD STRING

*CK # 2362*

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 467.97	No	Pump Truck Mileage-Job to Nearest Camp	14	\$39.65	No
Common-Class A	200	\$ 2,089.65	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	14	\$30.84	No
Gilsonite	1000	\$ 944.12	Yes				
5 1/2" Basket	2	\$ 324.78	Yes				
5 1/2" Turbolizer	6	\$ 271.91	Yes				
Mud Clear	500	\$ 232.88	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 211.48	Yes				
Latch Down Plug & Baffle, 5 1/2"	1	\$ 167.42	Yes				
Salt (Fine)	17	\$ 140.17	Yes				
Bulk Truck Matl-Material Service Charge	227	\$ 142.88	No				
KCL	2	\$ 37.59	Yes				

SubTotal: \$ 5,101.33

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (127.53)

SubTotal for Taxable Items: \$ 4,309.49

SubTotal for Non-Taxable Items: \$ 664.30

Total: \$ 4,973.80

Tax: \$ 301.66

7.00% Ellis County Sales Tax

Amount Due: \$ 5,275.46

Applied Payments:

Balance Due: \$ 5,275.46

**Thank You For Your Business!**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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# 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. 1999

Date	8-11-16	Sec.	23	Twp.	15	Range	19	County	Ellis	State	KS	On Location		Finish	12:30 AM
Location								Anderson 5/23 WIND							

Lease	Reichert	Well No.	4	Owner	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.
Contractor	Royal #1				
Type Job	Production string				
Hole Size	7 7/8	T.D.	3663	Charge To	Double D'S
Csg.	5/2 14#	Depth	3659	Street	
Tbg. Size		Depth		City State	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	20	Shoe Joint	20	Cement Amount Ordered 200 10/salt 5/6 Gilsonite	
Meas Line		Displace	88 3/4 B/C	200 R KCL 500 gal mud Clear	

**EQUIPMENT**

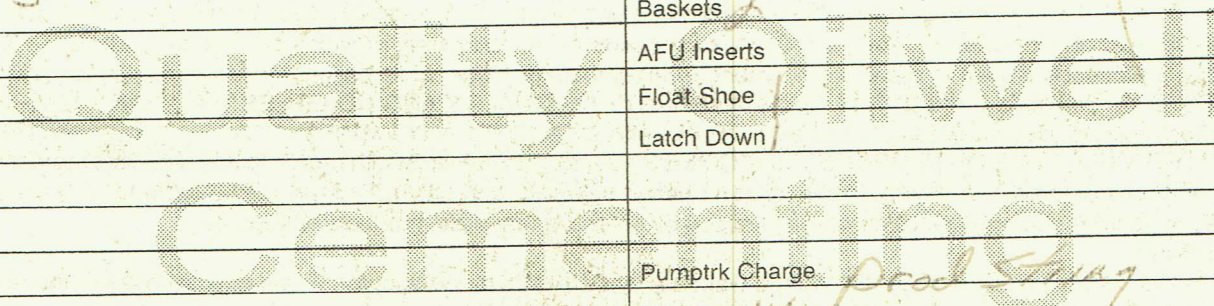
Pumptrk	18	No.		Cementer		Common
				Helper		Poz. Mix
Bulktrk		No.		Driver		Gel.
Bulktrk	14	No.		Driver		Calcium

**JOB SERVICES & REMARKS**

Remarks:		Hulls	KCL 2 gal
Rat Hole	30SK	Salt	17
Mouse Hole	15SK	Flowseal	50#
Centralizers		Kol-Seal	1000#
Baskets		Mud CLR 48	500 gal
D/V or Port Collar		CFL-117 or CD110 CAF 38	
		Sand	
	5/2 50x0 3659 Roll 100 3639	Handling	127
	Est. Cementation King road and then	Mileage	

**FLOAT EQUIPMENT**

		Guide Shoe	0
		Centralizer	6 Turbo's
		Baskets	2
		AFU Inserts	
		Float Shoe	
		Latch Down	



		Pumptrk Charge	Prod string
		Mileage	14
		Tax	
		Discount	
		Total Charge	

X Signature *Mary Budwig*



## DRILL STEM TEST REPORT

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

133 E 12th  
Hays, KS 67601

ATTN: Marc Downing

### **Reichert #4**

### **23-15S-19W Ellis, KS**

Start Date: 2016.08.07 @ 06:13:47

End Date: 2016.08.07 @ 13:17:47

Job Ticket #: 58057                      DST #: 1

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

Printed: 2016.08.11 @ 08:41:57

Double D's LLC  
23-15S-19W Ellis, KS  
Reichert #4  
DST # 1  
LKC "C"  
2016.08.07





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Double D's LLC

**23-15S-19W Ellis, KS**

133 E 12th  
Hays, KS 67601

**Reichert #4**

Job Ticket: 58057

**DST#: 1**

ATTN: Marc Downing

Test Start: 2016.08.07 @ 06:13:47

## GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:53:17

Time Test Ended: 13:17:47

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 3279.00 ft (KB) To 3309.00 ft (KB) (TVD)**

Reference Elevations: 1979.00 ft (KB)

Total Depth: 3309.00 ft (KB) (TVD)

1972.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 6651**

**Inside**

Press@RunDepth: 16.89 psig @ 3280.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.08.07

End Date:

2016.08.07

Last Calib.:

2016.08.07

Start Time: 06:13:48

End Time:

13:17:47

Time On Btm:

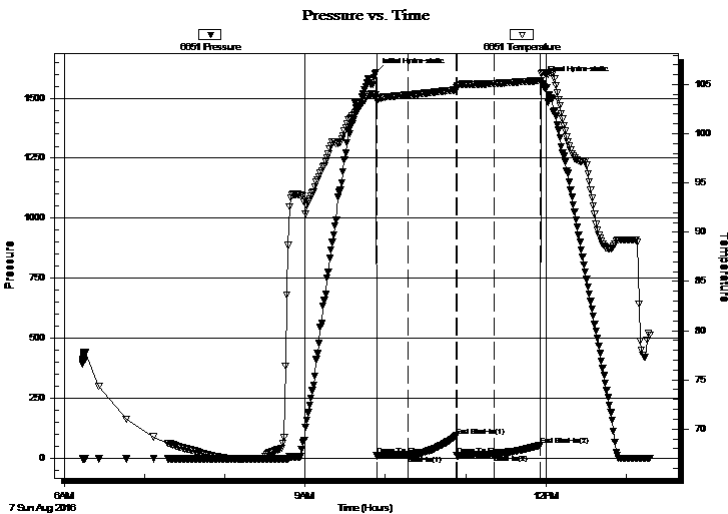
2016.08.07 @ 09:52:47

Time Off Btm:

2016.08.07 @ 11:56:17

TEST COMMENT: 30- IF- Slowly built to 1"  
30- IS- No blow  
30- FF- Slowly built to 1"  
30- FS- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1607.57	103.98	Initial Hydro-static
1	10.46	103.42	Open To Flow (1)
24	14.01	103.95	Shut-In(1)
60	93.19	104.47	End Shut-In(1)
61	10.40	104.85	Open To Flow (2)
88	16.89	105.11	Shut-In(2)
123	53.64	105.41	End Shut-In(2)
124	1574.14	106.13	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	SOCM, 3%O 97%M	0.21

## 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

133 E 12th  
Hays, KS 67601

**Reichert #4**

Job Ticket: 58057

**DST#: 1**

ATTN: Marc Downing

Test Start: 2016.08.07 @ 06:13:47

## GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:53:17

Time Test Ended: 13:17:47

**Interval: 3279.00 ft (KB) To 3309.00 ft (KB) (TVD)**

Total Depth: 3309.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

Reference Elevations: 1979.00 ft (KB)

1972.00 ft (CF)

KB to GR/CF: 7.00 ft

**Serial #: 8959 Outside**

Press@RunDepth: psig @ 3280.00 ft (KB)

Start Date: 2016.08.07

End Date: 2016.08.07

Capacity: 8000.00 psig

Last Calib.: 2016.08.07

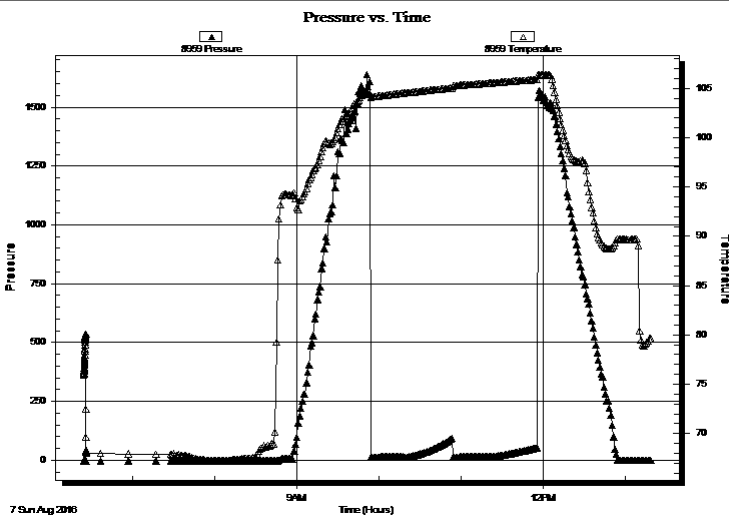
Start Time: 06:24:34

End Time: 13:18:03

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 30- IF- Slow ly built to 1"  
30- IS- No blow  
30- FF- Slow ly built to 1"  
30- FS- No blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	SOCM, 3%O 97%M	0.21

## 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**

133 E 12th  
Hays, KS 67601

**Reichert #4**

Job Ticket: 58057

**DST#: 1**

ATTN: Marc Downing

Test Start: 2016.08.07 @ 06:13:47

## Tool Information

Drill Pipe:	Length: 3262.00 ft	Diameter: 3.82 inches	Volume: 46.24 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - 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: 43000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3279.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	50.00 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			3260.00	
Shut In Tool	5.00			3265.00	
Hydraulic tool	5.00			3270.00	
Packer	5.00			3275.00	20.00 Bottom Of Top Packer
Packer	4.00			3279.00	
Stubb	1.00			3280.00	
Recorder	0.00	6651	Inside	3280.00	
Recorder	0.00	8959	Outside	3280.00	
Perforations	26.00			3306.00	
Bullnose	3.00			3309.00	30.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>50.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Double D's LLC

**23-15S-19W Ellis, KS**

133 E 12th  
Hays, KS 67601

**Reichert #4**

Job Ticket: 58057

**DST#: 1**

ATTN: Marc Downing

Test Start: 2016.08.07 @ 06:13:47

## 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: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	SOCM, 3%O 97%M	0.213

Total Length: 15.00 ft      Total Volume: 0.213 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

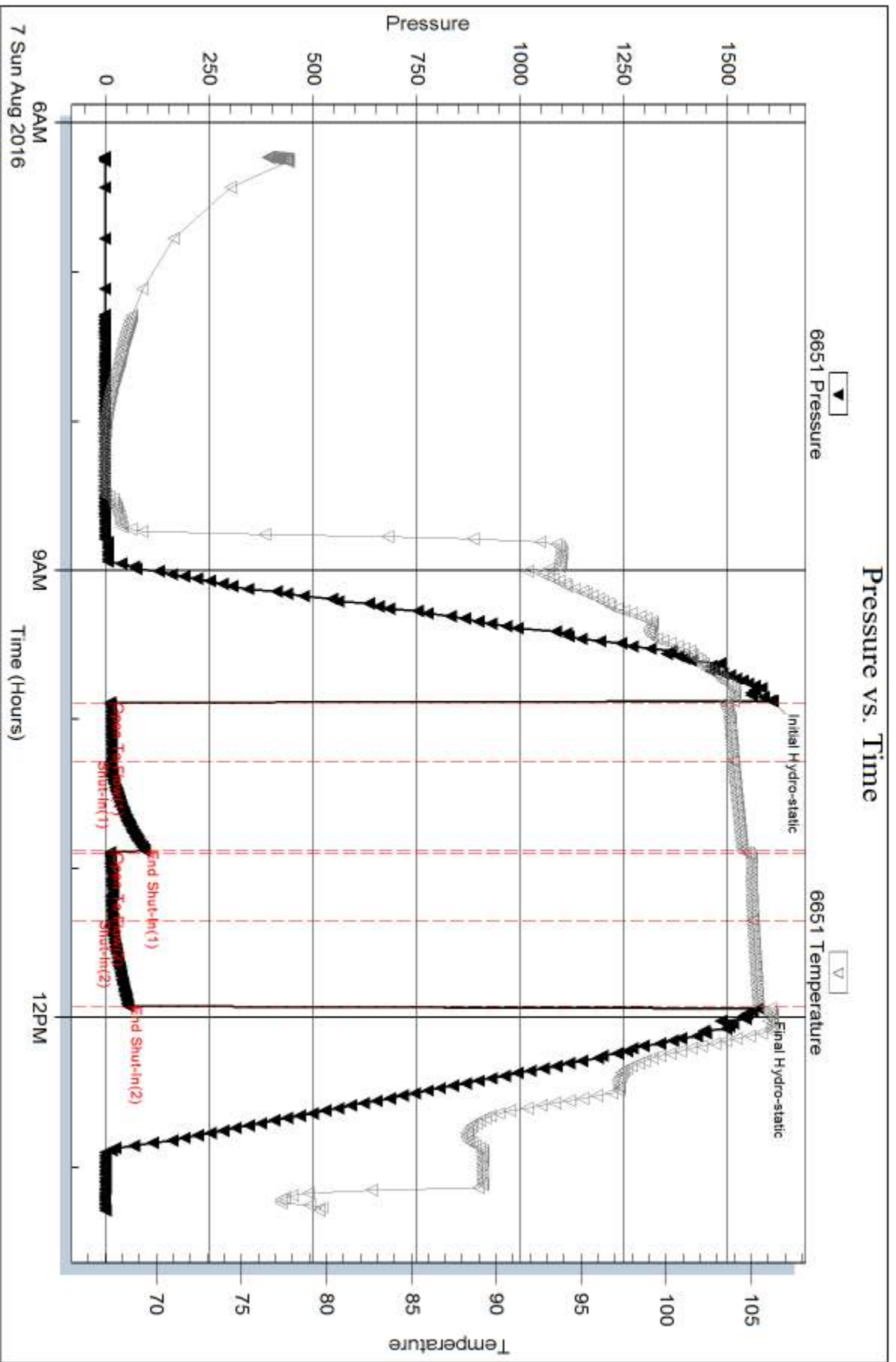
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

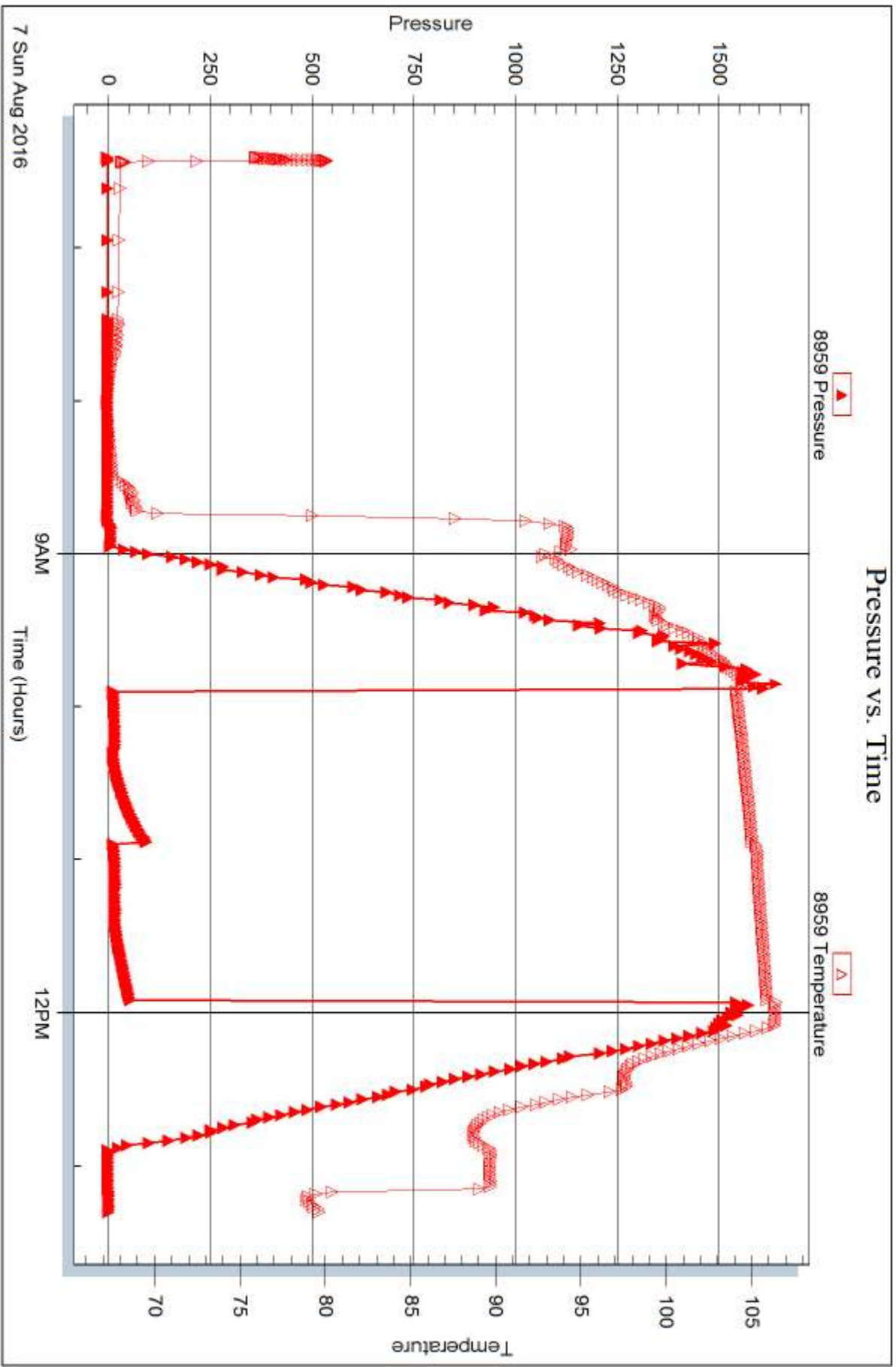


Serial #: 8959

Outside Double Ds LLC

Reichert #4

DST Test Number: 1



Trickle Testing, Inc

Ref. No: 58057

Printed: 2016.08.11 @ 08:41:59



## DRILL STEM TEST REPORT

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

133 E 12th  
Hays, KS 67601

ATTN: Marc Downing

### **Reichert #4**

#### **23-15S-19W Ellis, KS**

Start Date: 2016.08.07 @ 19:03:00

End Date: 2016.08.08 @ 00:54:00

Job Ticket #: 58058                      DST #: 2

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

Printed: 2016.08.11 @ 08:41:35

Double D's LLC    23-15S-19W Ellis, KS    Reichert #4    DST # 2    LKC "D"    2016.08.07



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Double D's LLC

**23-15S-19W Ellis, KS**

133 E 12th  
Hays, KS 67601

**Reichert #4**

Job Ticket: 58058

**DST#: 2**

ATTN: Marc Downing

Test Start: 2016.08.07 @ 19:03:00

## GENERAL INFORMATION:

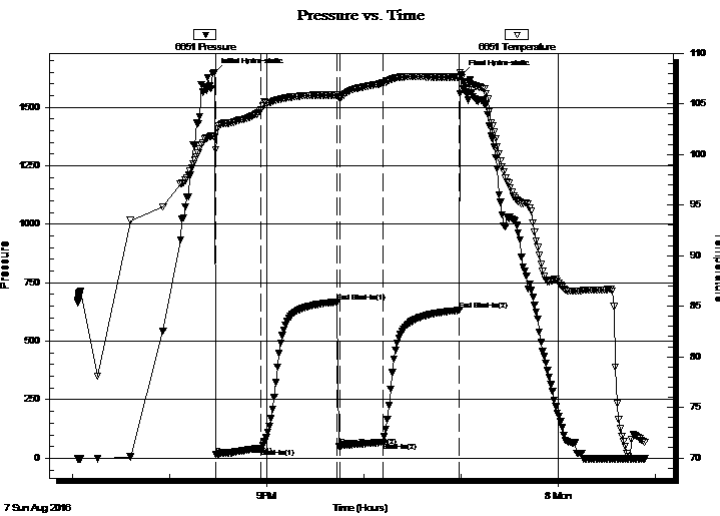
Formation: **LKC "D"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:28:30  
 Time Test Ended: 00:54:00  
 Interval: **3306.00 ft (KB) To 3332.00 ft (KB) (TVD)**  
 Total Depth: 3332.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brannan Lonsdale  
 Unit No: 73  
 Reference Elevations: 1979.00 ft (KB)  
 1972.00 ft (CF)  
 KB to GR/CF: 7.00 ft

## Serial #: 6651

Inside

Press@RunDepth: 68.51 psig @ 3307.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.08.07 End Date: 2016.08.08 Last Calib.: 2016.08.08  
 Start Time: 19:03:01 End Time: 00:54:00 Time On Btm: 2016.08.07 @ 20:27:30  
 Time Off Btm: 2016.08.07 @ 23:00:30

TEST COMMENT: 30- IF- BOB 4 mins  
 45- IS- Surface blow  
 30- FF- BOB 1 min  
 45- FS- Slowly built to 1"



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1649.03	101.72	Initial Hydro-static
1	14.31	100.47	Open To Flow (1)
29	43.57	104.47	Shut-In(1)
76	667.82	105.89	End Shut-In(1)
78	51.19	105.67	Open To Flow (2)
104	68.51	107.07	Shut-In(2)
152	632.39	107.65	End Shut-In(2)
153	1639.44	107.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
126.00	VGSWSMCO, 45%G 45%O 5%W 5%M	1.79
30.00	GOCM, 10%G 35%O 55%M	0.43
0.00	1356' GIP	0.00

\* 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**

133 E 12th  
Hays, KS 67601

**Reichert #4**

Job Ticket: 58058

**DST#: 2**

ATTN: Marc Downing

Test Start: 2016.08.07 @ 19:03:00

## GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:28:30

Time Test Ended: 00:54:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 3306.00 ft (KB) To 3332.00 ft (KB) (TVD)**

Reference Elevations: 1979.00 ft (KB)

Total Depth: 3332.00 ft (KB) (TVD)

1972.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8959 Outside**

Press@RunDepth: psig @ 3307.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.08.07 End Date: 2016.08.08

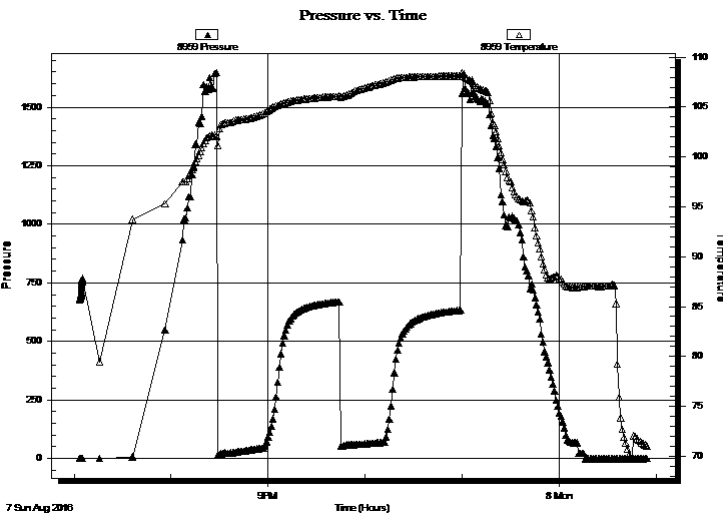
Last Calib.: 2016.08.08

Start Time: 19:03:28 End Time: 00:54:27

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 30- IF- BOB 4 mins  
45- IS- Surface blow  
30- FF- BOB 1 min  
45- FS- Slowly built to 1"



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
126.00	VGSWSMCO, 45%G 45%O 5%W 5%M	1.79
30.00	GOCM, 10%G 35%O 55%M	0.43
0.00	1356' GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Double D's LLC

**23-15S-19W Ellis, KS**

133 E 12th  
Hays, KS 67601

**Reichert #4**

Job Ticket: 58058

**DST#: 2**

ATTN: Marc Downing

Test Start: 2016.08.07 @ 19:03:00

## Tool Information

Drill Pipe:	Length: 3294.00 ft	Diameter: 3.82 inches	Volume: 46.69 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - 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:	44000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3306.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	46.00 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			3287.00	
Shut In Tool	5.00			3292.00	
Hydraulic tool	5.00			3297.00	
Packer	5.00			3302.00	20.00 Bottom Of Top Packer
Packer	4.00			3306.00	
Stubb	1.00			3307.00	
Recorder	0.00	6651	Inside	3307.00	
Recorder	0.00	8959	Outside	3307.00	
Perforations	22.00			3329.00	
Bullnose	3.00			3332.00	26.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>46.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Double D's LLC

**23-15S-19W Ellis, KS**

133 E 12th  
Hays, KS 67601

**Reichert #4**

Job Ticket: 58058

**DST#: 2**

ATTN: Marc Downing

Test Start: 2016.08.07 @ 19:03:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in<sup>3</sup>

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 bbbl
126.00	VGSWSMCO, 45%G 45%O 5%W 5%M	1.786
30.00	GOCM, 10%G 35%O 55%M	0.425
0.00	1356' GIP	0.000

Total Length: 156.00 ft

Total Volume: 2.211 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

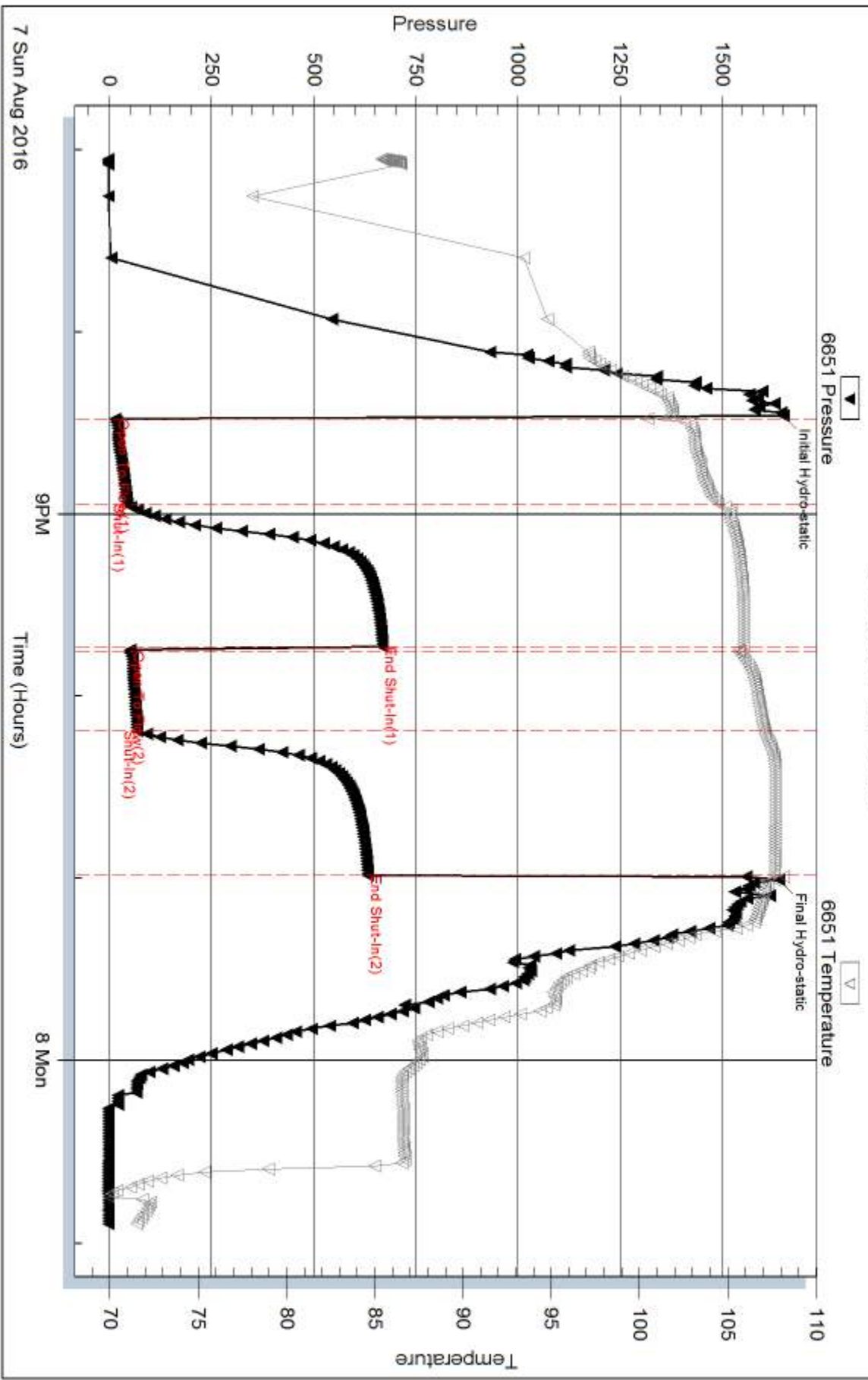
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

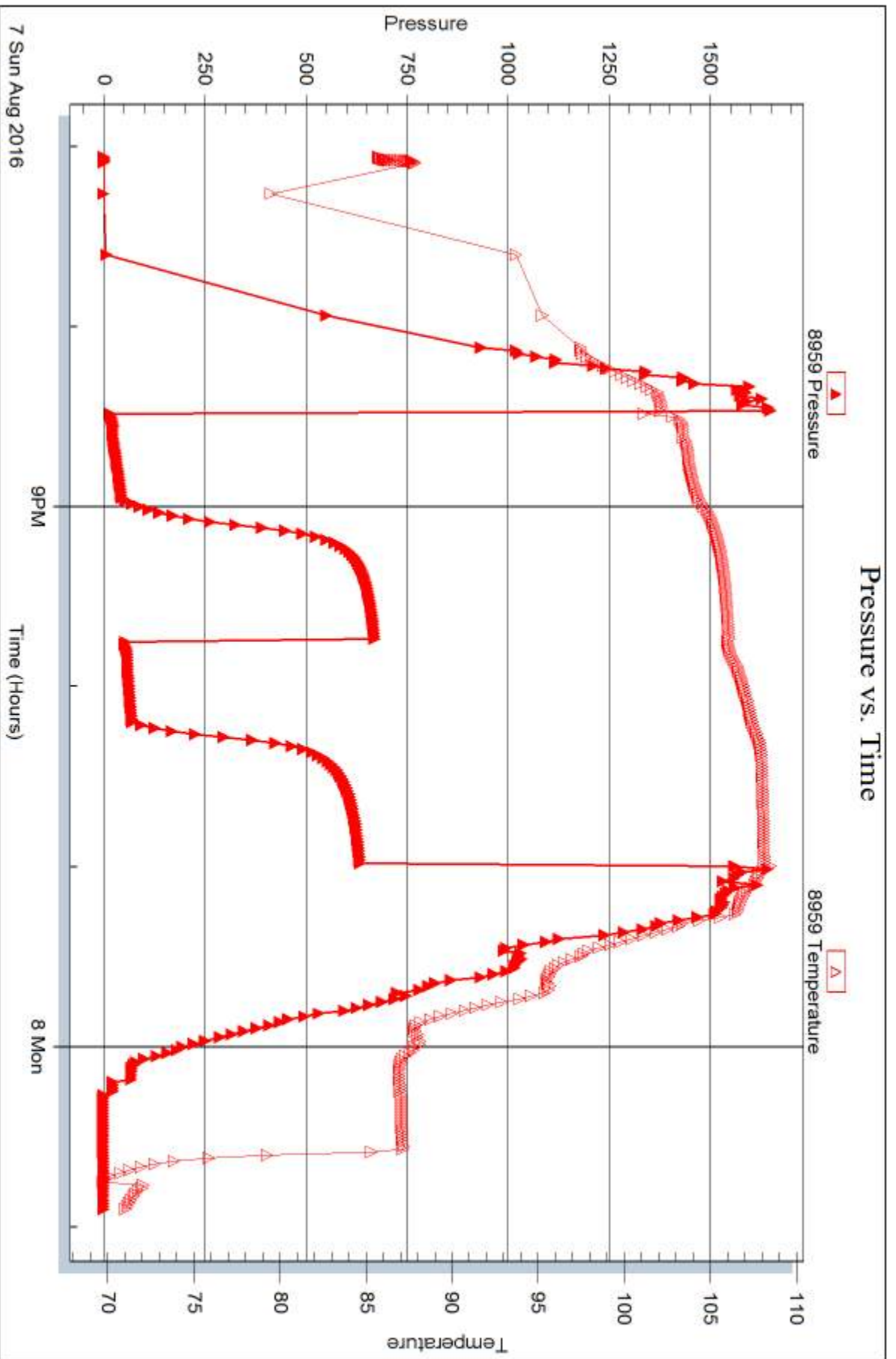


Serial #: 8959

Outside Double D's LLC

Reichert #4

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 58058

Printed: 2016.08.11 @ 08:41:37



## DRILL STEM TEST REPORT

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

133 E 12th  
Hays, KS 67601

ATTN: Marc Downing

### **Reichert #4**

### **23-15S-19W Ellis, KS**

Start Date: 2016.08.08 @ 07:15:53

End Date: 2016.08.08 @ 11:33:53

Job Ticket #: 58059                      DST #: 3

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

Printed: 2016.08.11 @ 08:41:11

Double D's LLC  
23-15S-19W Ellis, KS  
Reichert #4  
DST # 3  
LKC "E"  
2016.08.08



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Double D's LLC

**23-15S-19W Ellis, KS**

133 E 12th  
Hays, KS 67601

**Reichert #4**

Job Ticket: 58059

**DST#: 3**

ATTN: Marc Downing

Test Start: 2016.08.08 @ 07:15:53

## GENERAL INFORMATION:

Formation: **LKC "E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:04:23

Time Test Ended: 11:33:53

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 3329.00 ft (KB) To 3350.00 ft (KB) (TVD)**

Reference Elevations: 1979.00 ft (KB)

Total Depth: 3350.00 ft (KB) (TVD)

1972.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8959 Outside**

Press@RunDepth: 12.42 psig @ 3330.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.08.08

End Date:

2016.08.08

Last Calib.:

2016.08.08

Start Time: 07:15:54

End Time:

11:33:53

Time On Btm:

2016.08.08 @ 09:03:53

Time Off Btm:

2016.08.08 @ 10:05:23

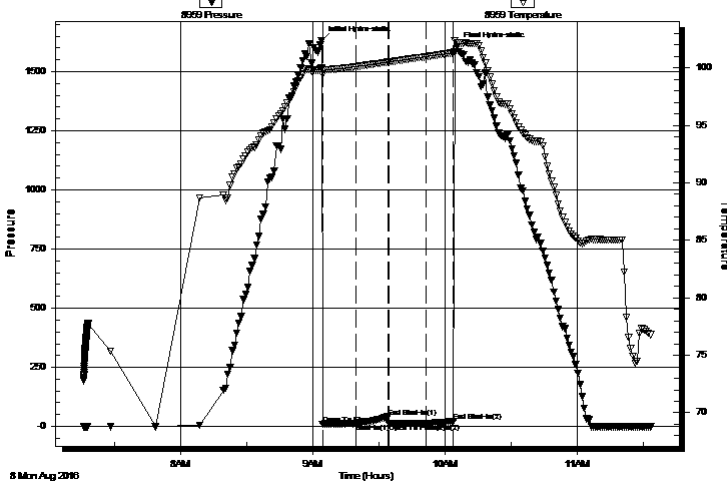
TEST COMMENT: 15- IF- Slowly built to .5"

15- IS- No blow

15- FF- No blow

15- FSI- No blow

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1631.88	99.98	Initial Hydro-static
1	9.76	99.41	Open To Flow (1)
16	12.47	100.10	Shut-In(1)
30	40.72	100.50	End Shut-In(1)
31	11.99	100.51	Open To Flow (2)
48	12.42	100.98	Shut-In(2)
60	21.66	101.32	End Shut-In(2)
62	1605.01	102.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	M	0.03

\* 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**

133 E 12th  
Hays, KS 67601

**Reichert #4**

Job Ticket: 58059

**DST#: 3**

ATTN: Marc Downing

Test Start: 2016.08.08 @ 07:15:53

**GENERAL INFORMATION:**

Formation: **LKC "E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:04:23

Time Test Ended: 11:33:53

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 3329.00 ft (KB) To 3350.00 ft (KB) (TVD)**

Reference Elevations: 1979.00 ft (KB)

Total Depth: 3350.00 ft (KB) (TVD)

1972.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 6651 Inside**

Press@RunDepth: psig @ 3330.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.08.08 End Date: 2016.08.08

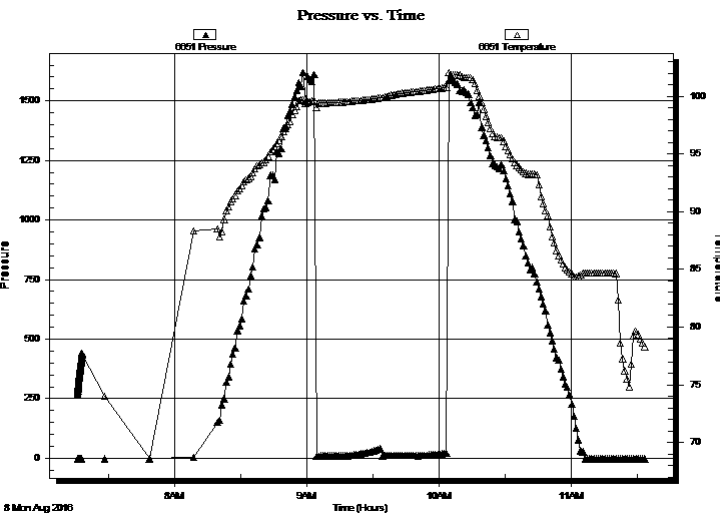
Last Calib.: 1899.12.30

Start Time: 07:15:58 End Time: 11:33:57

Time On Btm:

Time Off Btm:

TEST COMMENT: 15- IF- Slowly built to .5"  
15- IS- No blow  
15- FF- No blow  
15- FS- No blow



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
2.00	M	0.03

**Gas Rates**

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Double D's LLC

**23-15S-19W Ellis, KS**

133 E 12th  
Hays, KS 67601

**Reichert #4**

Job Ticket: 58059

**DST#: 3**

ATTN: Marc Downing

Test Start: 2016.08.08 @ 07:15:53

## Tool Information

Drill Pipe:	Length: 3325.00 ft	Diameter: 3.82 inches	Volume: 47.13 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - 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: 45000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3329.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	41.00 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			3310.00	
Shut In Tool	5.00			3315.00	
Hydraulic tool	5.00			3320.00	
Packer	5.00			3325.00	20.00 Bottom Of Top Packer
Packer	4.00			3329.00	
Stubb	1.00			3330.00	
Recorder	0.00	6651	Inside	3330.00	
Recorder	0.00	8959	Outside	3330.00	
Perforations	17.00			3347.00	
Bullnose	3.00			3350.00	21.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>41.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Double D's LLC

**23-15S-19W Ellis, KS**

133 E 12th  
Hays, KS 67601

**Reichert #4**

Job Ticket: 58059

**DST#: 3**

ATTN: Marc Downing

Test Start: 2016.08.08 @ 07:15:53

## 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: 7.17 in<sup>3</sup>

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
2.00	M	0.028

Total Length: 2.00 ft      Total Volume: 0.028 bbl

Num Fluid Samples: 0

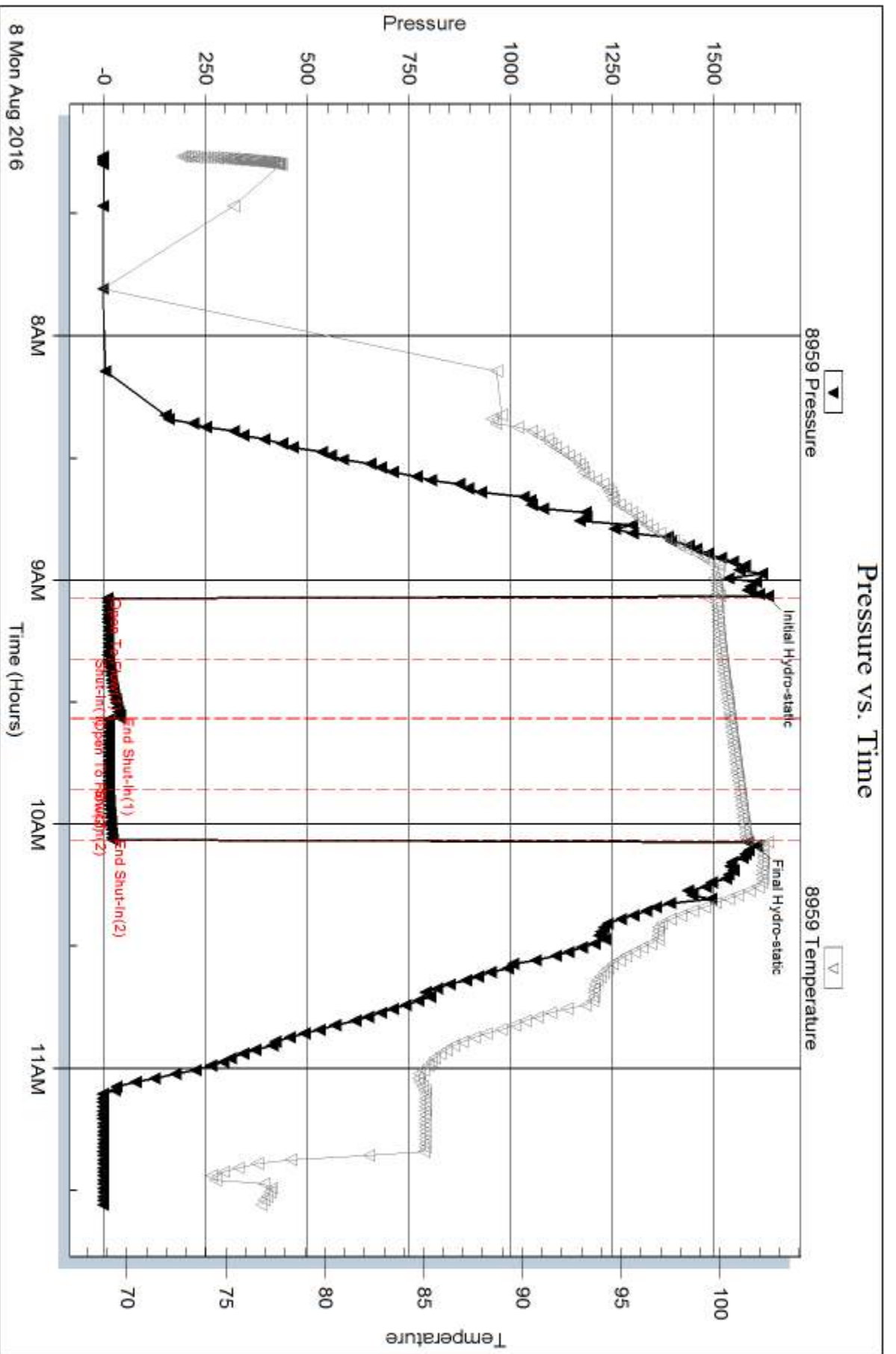
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



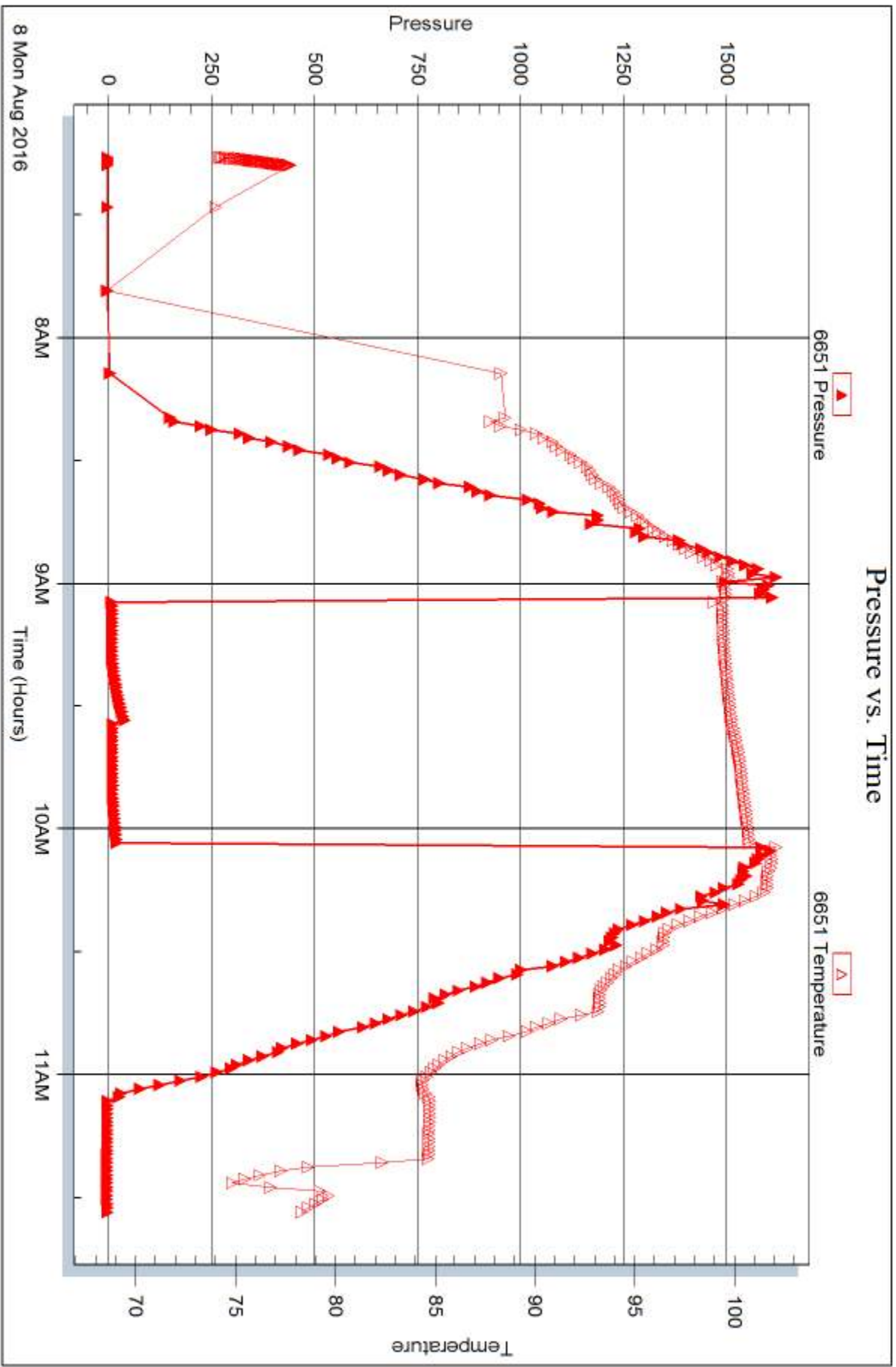
Serial #: 6651

Inside

Double Ds LLC

Reichert #4

DST Test Number: 3





## DRILL STEM TEST REPORT

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

133 E 12th  
Hays, KS 67601

ATTN: Marc Downing

### **Reichert #4**

### **23-15S-19W Ellis, KS**

Start Date: 2016.08.09 @ 00:25:52

End Date: 2016.08.09 @ 07:20:22

Job Ticket #: 58060                      DST #: 4

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

Printed: 2016.08.11 @ 08:40:15

Double D's LLC  
23-15S-19W Ellis, KS  
Reichert #4  
DST # 4  
LKC "I - J"  
2016.08.09



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Double D's LLC

**23-15S-19W Ellis, KS**

133 E 12th  
Hays, KS 67601

**Reichert #4**

Job Ticket: 58060

**DST#: 4**

ATTN: Marc Downing

Test Start: 2016.08.09 @ 00:25:52

## GENERAL INFORMATION:

Formation: **LKC "I - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:57:52

Time Test Ended: 07:20:22

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 3422.00 ft (KB) To 3470.00 ft (KB) (TVD)**

Reference Elevations: 1979.00 ft (KB)

Total Depth: 3470.00 ft (KB) (TVD)

1972.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 6651**

**Inside**

Press@RunDepth: 82.71 psig @ 3423.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.08.09

End Date:

2016.08.09

Last Calib.:

2016.08.09

Start Time: 00:25:53

End Time:

07:20:22

Time On Btm:

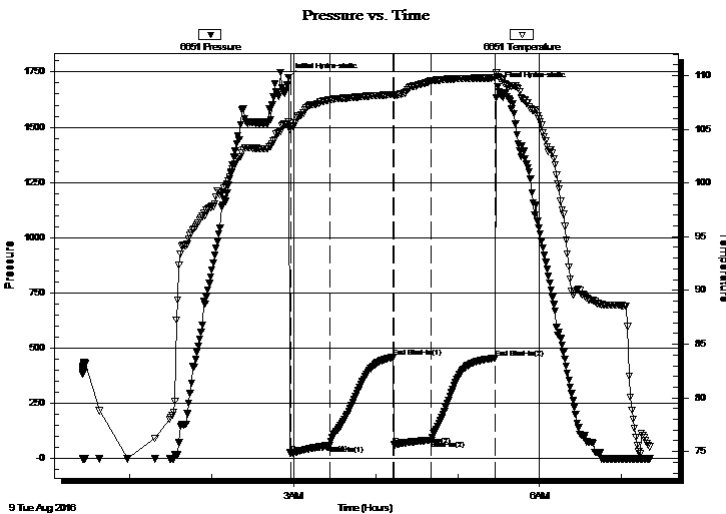
2016.08.09 @ 02:56:22

Time Off Btm:

2016.08.09 @ 05:29:22

**TEST COMMENT:** 30- IF- BOB 2 mins  
45- IS- No blow  
30- FF- BOB 2 mins  
45- FS- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1726.15	105.69	Initial Hydro-static
2	23.28	105.28	Open To Flow (1)
30	58.31	107.73	Shut-In(1)
76	456.52	108.22	End Shut-In(1)
78	60.93	108.12	Open To Flow (2)
105	82.71	109.49	Shut-In(2)
151	453.89	109.79	End Shut-In(2)
153	1685.55	109.92	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
126.00	GWOCM, 25%G 25%O 10%W 40%M	1.79
30.00	SOCM, 5%O 95%M	0.43
0.00	285' GIP	0.00

## 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

**23-15S-19W Ellis, KS**

133 E 12th  
Hays, KS 67601

**Reichert #4**

ATTN: Marc Downing

Job Ticket: 58060

**DST#: 4**

Test Start: 2016.08.09 @ 00:25:52

### GENERAL INFORMATION:

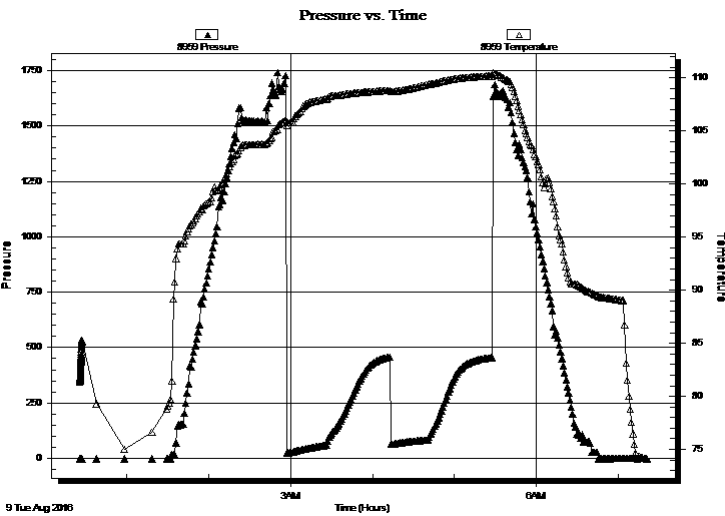
Formation: **LKC "I - J"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 02:57:52  
 Tester: Brannan Lonsdale  
 Time Test Ended: 07:20:22  
 Unit No: 73  
**Interval: 3422.00 ft (KB) To 3470.00 ft (KB) (TVD)**  
 Reference Elevations: 1979.00 ft (KB)  
 Total Depth: 3470.00 ft (KB) (TVD)  
 1972.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 7.00 ft

### Serial #: 8959

Outside

Press@RunDepth: psig @ 3423.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.08.09 End Date: 2016.08.09 Last Calib.: 2016.08.09  
 Start Time: 00:25:57 End Time: 07:20:26 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 30- IF- BOB 2 mins  
 45- IS- No blow  
 30- FF- BOB 2 mins  
 45- FS- No blow



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
126.00	GWOCM, 25%G 25%O 10%W 40%M	1.79
30.00	SOCM, 5%O 95%M	0.43
0.00	285' GIP	0.00

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Double D's LLC

**23-15S-19W Ellis, KS**

133 E 12th  
Hays, KS 67601

**Reichert #4**

Job Ticket: 58060

**DST#: 4**

ATTN: Marc Downing

Test Start: 2016.08.09 @ 00:25:52

## Tool Information

Drill Pipe:	Length: 3421.00 ft	Diameter: 3.82 inches	Volume: 48.49 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - 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: 44000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3422.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	68.00 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			3403.00	
Shut In Tool	5.00			3408.00	
Hydraulic tool	5.00			3413.00	
Packer	5.00			3418.00	20.00 Bottom Of Top Packer
Packer	4.00			3422.00	
Stubb	1.00			3423.00	
Recorder	0.00	6651	Inside	3423.00	
Recorder	0.00	8959	Outside	3423.00	
Perforations	10.00			3433.00	
Change Over Sub	1.00			3434.00	
Drill Pipe	32.00			3466.00	
Change Over Sub	1.00			3467.00	
Bullnose	3.00			3470.00	48.00 Bottom Packers & Anchor

**Total Tool Length: 68.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Double D's LLC

**23-15S-19W Ellis, KS**

133 E 12th  
Hays, KS 67601

**Reichert #4**

Job Ticket: 58060

**DST#: 4**

ATTN: Marc Downing

Test Start: 2016.08.09 @ 00:25:52

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

26 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
126.00	GWOCM, 25%G 25%O 10%W 40%M	1.786
30.00	SOCM, 5%O 95%M	0.425
0.00	285' GIP	0.000

Total Length: 156.00 ft      Total Volume: 2.211 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6651

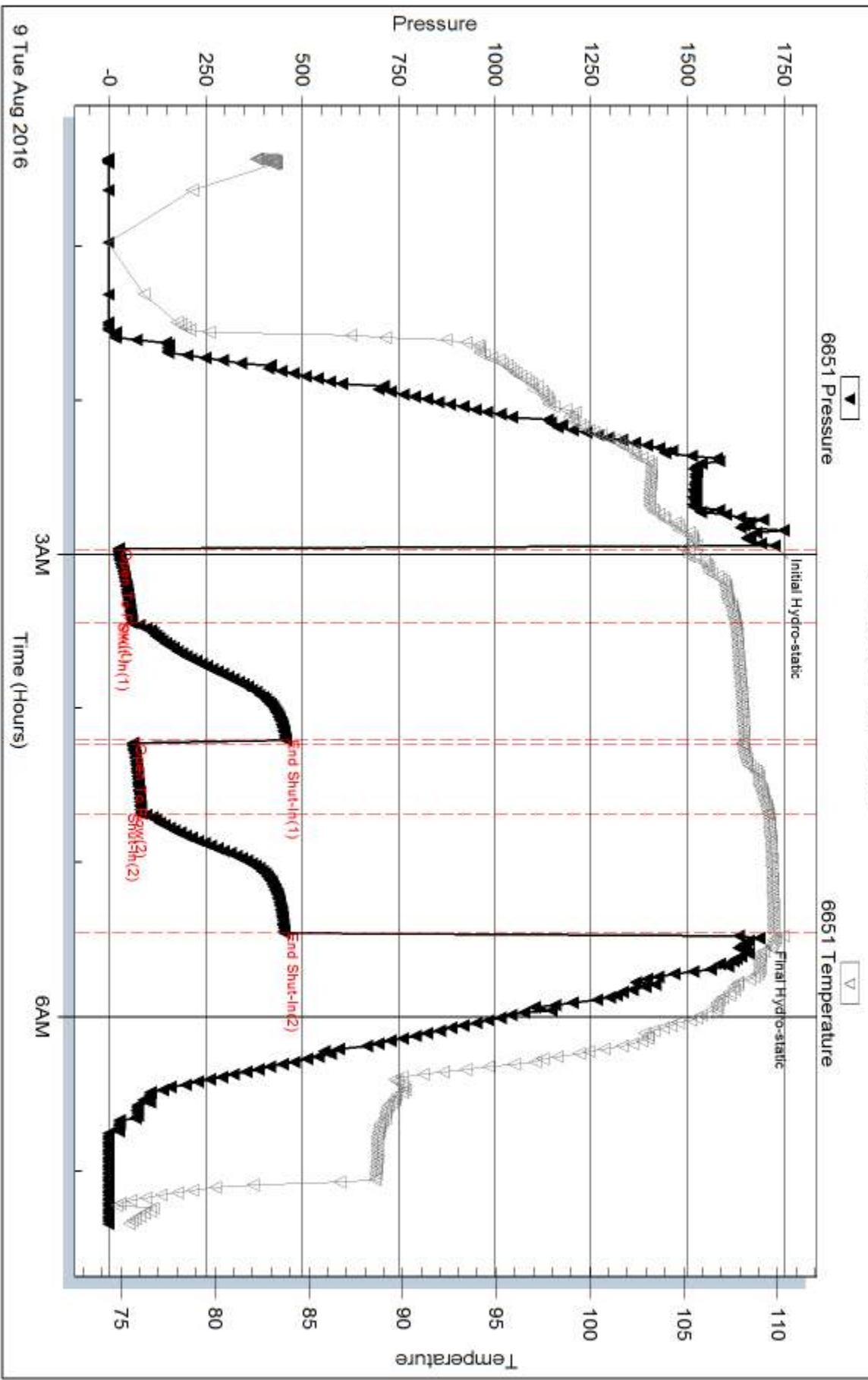
Inside

Double Ds LLC

Reichert #4

DST Test Number: 4

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 58060

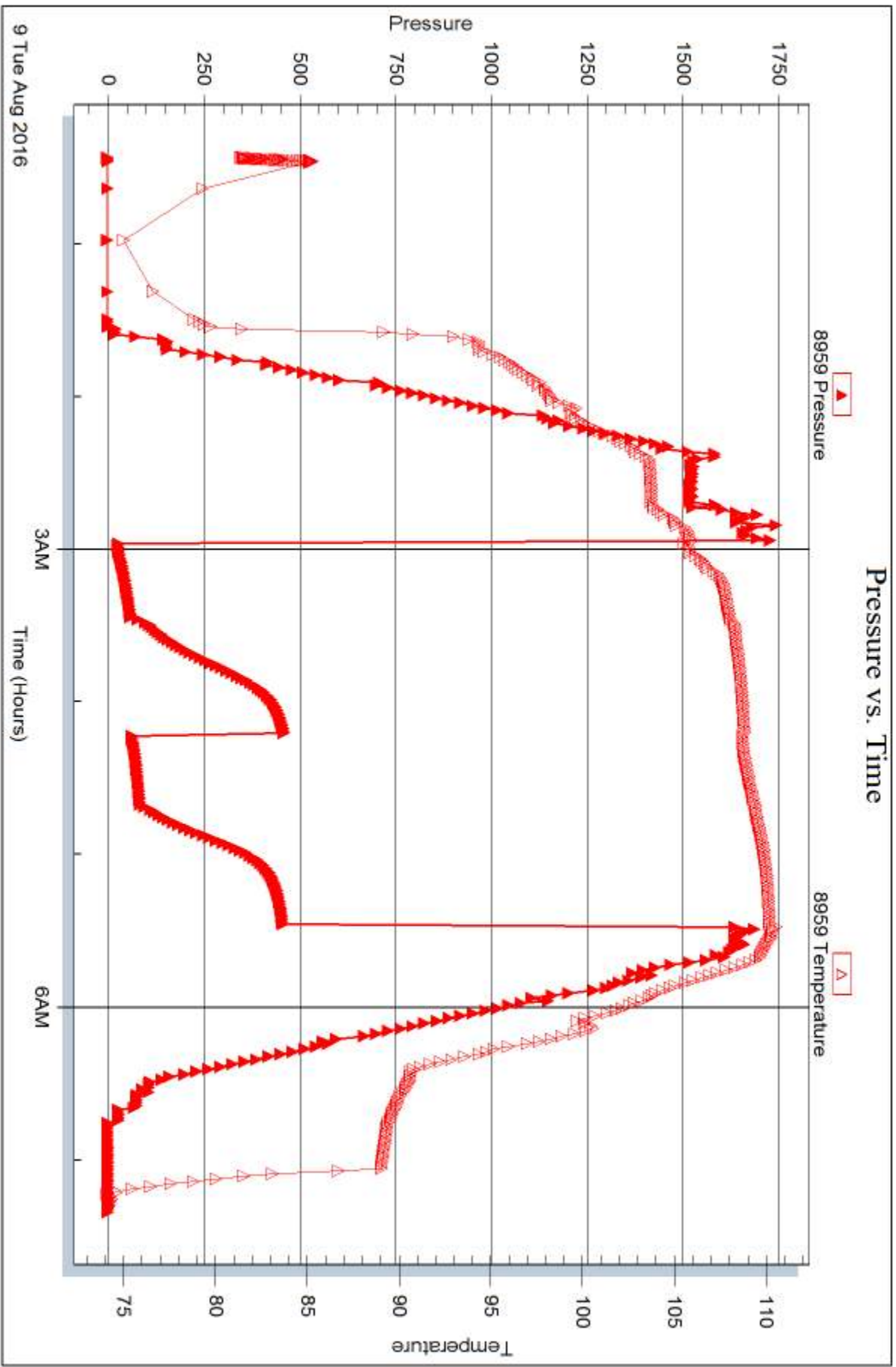
Printed: 2016.08.11 @ 08:40:17

Serial #: 8959

Outside Double Ds LLC

Reichert #4

DST Test Number: 4



Trickle Testing, Inc

Ref. No: 58060

Printed: 2016.08.11 @ 08:40:17



## DRILL STEM TEST REPORT

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

133 E 12th  
Hays, KS 67601

ATTN: Marc Downing

### **Reichert #4**

### **23-15S-19W Ellis, KS**

Start Date: 2016.08.09 @ 18:25:41

End Date: 2016.08.10 @ 01:11:41

Job Ticket #: 58061                      DST #: 5

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

Printed: 2016.08.11 @ 08:39:55



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Double D's LLC

**23-15S-19W Ellis, KS**

133 E 12th  
Hays, KS 67601

**Reichert #4**

Job Ticket: 58061

**DST#: 5**

ATTN: Marc Downing

Test Start: 2016.08.09 @ 18:25:41

## GENERAL INFORMATION:

Formation: **Cong Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:07:41

Time Test Ended: 01:11:41

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 3575.00 ft (KB) To 3605.00 ft (KB) (TVD)**

Reference Elevations: 1979.00 ft (KB)

Total Depth: 3605.00 ft (KB) (TVD)

1972.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 6651**

**Inside**

Press@RunDepth: 631.31 psig @ 3576.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.08.09

End Date:

2016.08.10

Last Calib.:

2016.08.10

Start Time: 18:25:42

End Time:

01:11:41

Time On Btm:

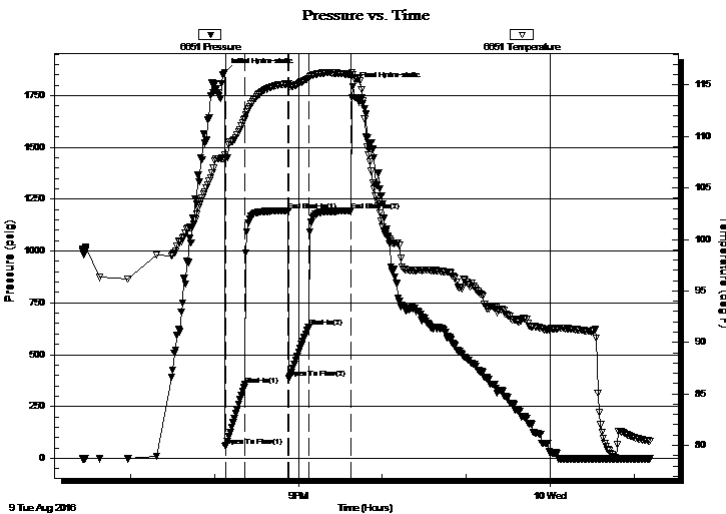
2016.08.09 @ 20:07:11

Time Off Btm:

2016.08.09 @ 21:39:11

TEST COMMENT: 15- IF- BOB 2 mins  
30- IS- No blow  
15- FF- BOB 2 mins  
30- FS- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1862.29	108.18	Initial Hydro-static
1	58.13	107.73	Open To Flow (1)
15	354.63	111.71	Shut-In(1)
46	1193.94	115.11	End Shut-In(1)
46	384.72	114.83	Open To Flow (2)
60	631.31	115.62	Shut-In(2)
91	1193.43	116.01	End Shut-In(2)
92	1792.69	116.03	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1197.00	GMCOV, 10%G 25%O 55%W 10%M	16.97
195.00	GWMCO, 5%G 50%O 25%W 20%M	2.76
0.00	2187' GIP (Very faint odor)	0.00

## 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

133 E 12th  
Hays, KS 67601

ATTN: Marc Downing

**23-15S-19W Ellis, KS**

**Reichert #4**

Job Ticket: 58061

**DST#: 5**

Test Start: 2016.08.09 @ 18:25:41

### GENERAL INFORMATION:

Formation: **Cong Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:07:41

Time Test Ended: 01:11:41

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 3575.00 ft (KB) To 3605.00 ft (KB) (TVD)**

Total Depth: 3605.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1979.00 ft (KB)

1972.00 ft (CF)

KB to GR/CF: 7.00 ft

**Serial #: 8959** **Outside**

Press@RunDepth: psig @ 3576.00 ft (KB)

Start Date: 2016.08.09

End Date:

2016.08.10

Start Time: 18:25:28

End Time:

01:11:27

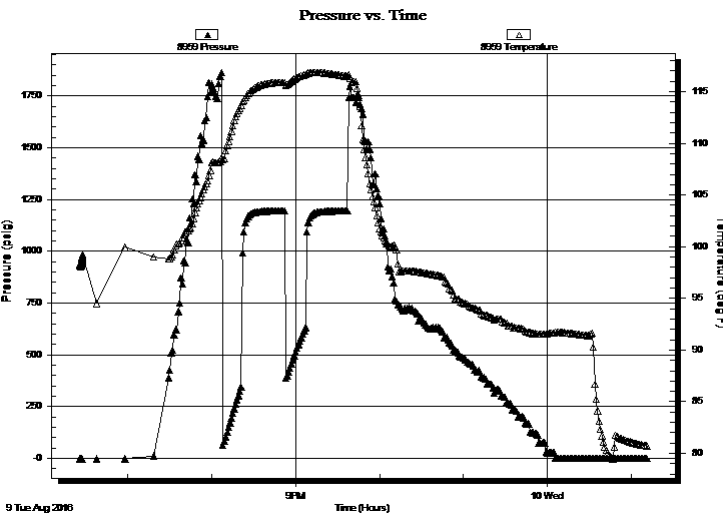
Capacity: 8000.00 psig

Last Calib.: 2016.08.10

Time On Btm:

Time Off Btm:

TEST COMMENT: 15- IF- BOB 2 mins  
30- IS- No blow  
15- FF- BOB 2 mins  
30- FS- No blow



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
1197.00	GMCOV, 10%G 25%O 55%W 10%M	16.97
195.00	GWMCO, 5%G 50%O 25%W 20%M	2.76
0.00	2187' GIP (Very faint odor)	0.00

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Double D's LLC

**23-15S-19W Ellis, KS**

133 E 12th  
Hays, KS 67601

**Reichert #4**

Job Ticket: 58061

**DST#: 5**

ATTN: Marc Downing

Test Start: 2016.08.09 @ 18:25:41

## Tool Information

Drill Pipe:	Length: 3579.00 ft	Diameter: 3.82 inches	Volume: 50.73 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - 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:	49000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	43000.00 lb
Drill Pipe Above KB:	24.00 ft			Final	48000.00 lb
Depth to Top Packer:	3575.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	50.00 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			3556.00	
Shut In Tool	5.00			3561.00	
Hydraulic tool	5.00			3566.00	
Packer	5.00			3571.00	20.00 Bottom Of Top Packer
Packer	4.00			3575.00	
Stubb	1.00			3576.00	
Recorder	0.00	6651	Inside	3576.00	
Recorder	0.00	8959	Outside	3576.00	
Perforations	26.00			3602.00	
Bullnose	3.00			3605.00	30.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>50.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Double D's LLC

**23-15S-19W Ellis, KS**

133 E 12th  
Hays, KS 67601

**Reichert #4**

Job Ticket: 58061

**DST#: 5**

ATTN: Marc Downing

Test Start: 2016.08.09 @ 18:25:41

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

24 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

43000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1197.00	GMCOV, 10%G 25%O 55%W 10%M	16.968
195.00	GWMCO, 5%G 50%O 25%W 20%M	2.764
0.00	2187' GIP (Very faint odor)	0.000

Total Length: 1392.00 ft      Total Volume: 19.732 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .rW 13 @ 84



Serial #: 6651

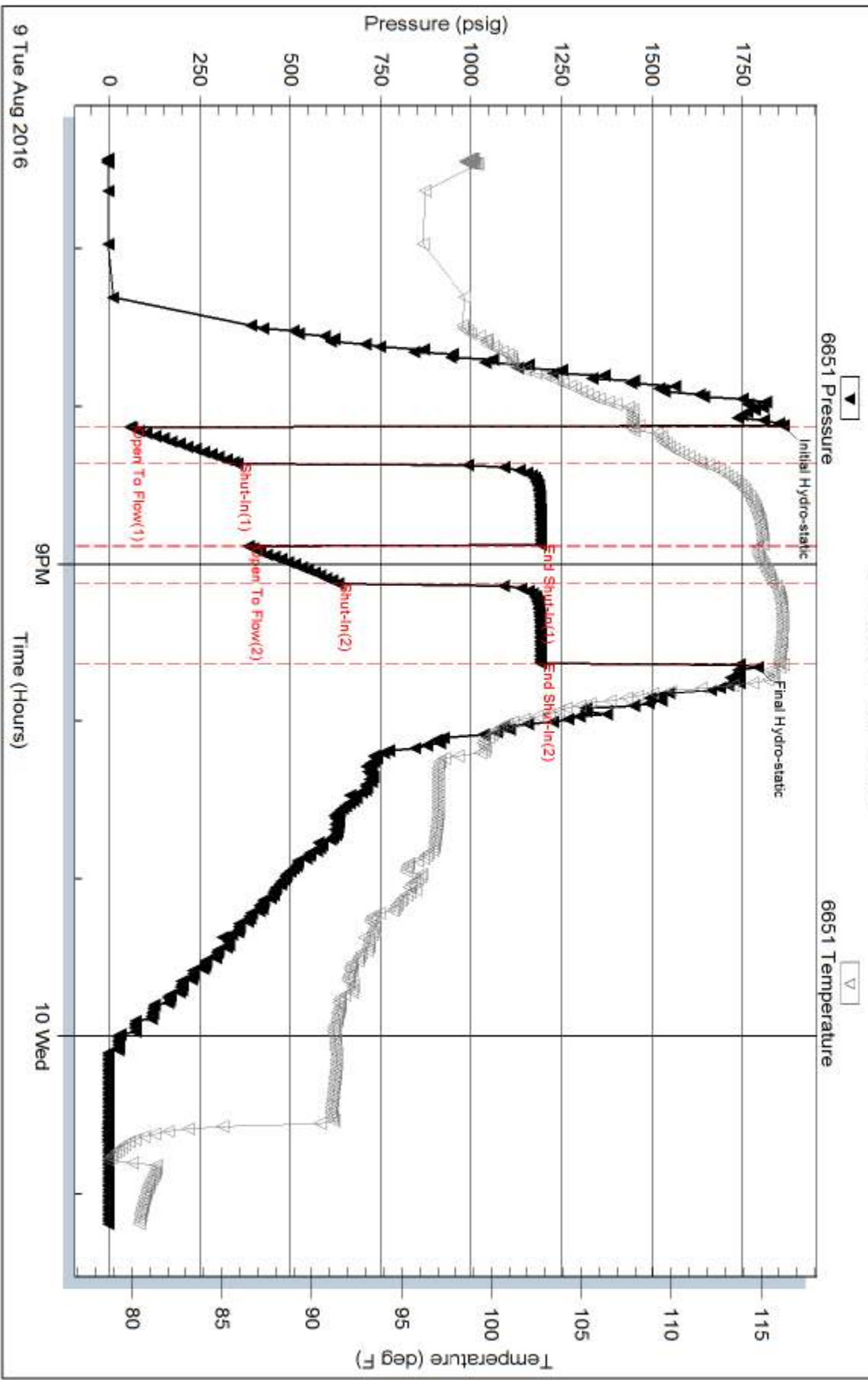
Inside

Double Ds LLC

Reichert #4

DST Test Number: 5

### Pressure vs. Time



Trioblate Testing, Inc

Ref. No: 58061

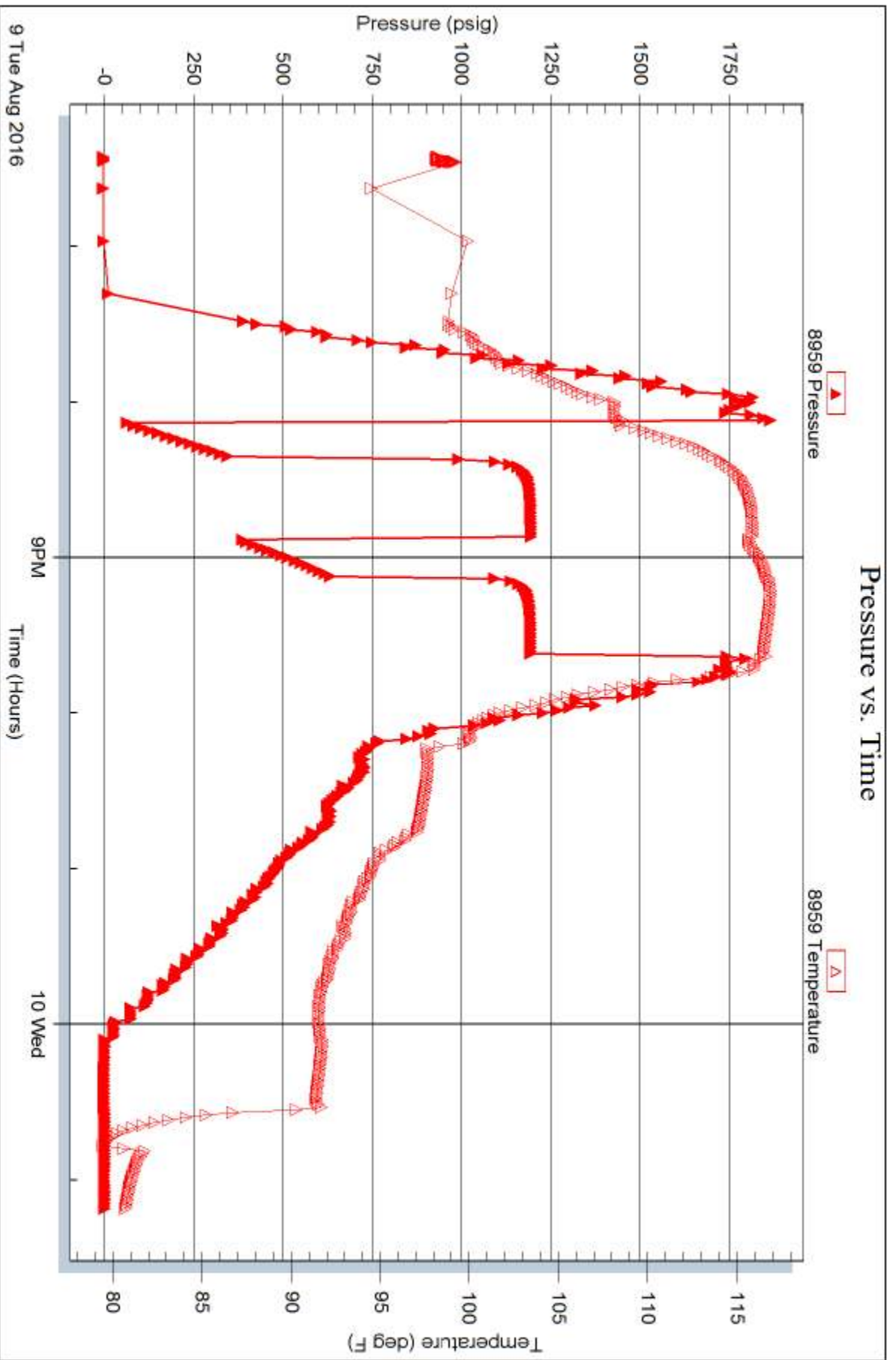
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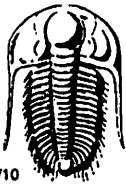
Serial #: 8959

Outside Double D's LLC

Reichert #4

DST Test Number: 5





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 58057

Well Name & No. Reichert #4 Test No. 1 Date 8/7/16  
 Company Double D's LLC Elevation 1979 KB 1972 GL  
 Address 133 E. 12th Hays, KS 67601  
 Co. Rep / Geo. Marc Downing Rig Royal #1  
 Location: Sec. 23 Twp. 15 S Rge. 19 W Co. Ellis State KS

Interval Tested 3279-3309 Zone Tested LKC "C"  
 Anchor Length 30' Drill Pipe Run 3262 Mud Wt. 8.8  
 Top Packer Depth 3274 Drill Collars Run — Vis 42  
 Bottom Packer Depth 3279 Wt. Pipe Run — WL 2.2  
 Total Depth 3309 Chlorides 2,500 ppm System LCM 2#

Blow Description IF - Slowly built to 1"  
FSI - No blow  
FF - Slowly built to 1"  
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>SOCM</u>		<u>3</u>		<u>97</u>
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 105° Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

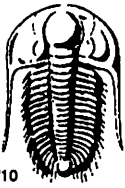
(A) Initial Hydrostatic 1608  Test 1050 T-On Location 0545  
 (B) First Initial Flow 10  Jars \_\_\_\_\_ T-Started 0613  
 (C) First Final Flow 14  Safety Joint \_\_\_\_\_ T-Open 0952  
 (D) Initial Shut-In 93  Circ Sub \_\_\_\_\_ T-Pulled 1152  
 (E) Second Initial Flow 10  Hourly Standby \_\_\_\_\_ T-Out 1317  
 (F) Second Final Flow 17  Mileage 34 RT 25.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 54  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1574  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

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

Sub Total 1075.50  
 Total 1075.50  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Brennan Lonsdak

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 58058

Well Name & No. Reichert #4 Test No. 2 Date 8/7/16  
 Company Double D's LLC Elevation 1979 KB 1972 GL  
 Address 133 E. 12<sup>th</sup> Hays, KS 67601  
 Co. Rep / Geo. Marc Downing Rig Royal #1  
 Location: Sec. 23 Twp. 15 S Rge. 19 W Co. Ellis State KS

Interval Tested 3306-3332 Zone Tested LKC "D"  
 Anchor Length 26' Drill Pipe Run 3294 Mud Wt. 9.3  
 Top Packer Depth 3301 Drill Collars Run — Vis 48  
 Bottom Packer Depth 3306 Wt. Pipe Run — WL 2.2  
 Total Depth 3332 Chlorides 2,600 ppm System LCM 2<sup>nd</sup>

Blow Description IF - BOB 4mins  
ISI - Surface blow  
PF - BOB 1min  
FSI - Slowly built to 1"

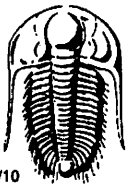
Rec	Feet of	%gas	%oil	%water	%mud
<u>126</u>	<u>VGSWSMCO</u>	<u>45</u>	<u>45</u>	<u>5</u>	<u>5</u>
<u>30</u>	<u>GOCM</u>	<u>10</u>	<u>25</u>	<u>—</u>	<u>55</u>
<u>—</u>	<u>B56' GIP</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Rec Total 156' BHT 108<sup>o</sup> Gravity 29 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1649  Test 1050 T-On Location 1900  
 (B) First Initial Flow 14  Jars — T-Started 1903  
 (C) First Final Flow 44  Safety Joint — T-Open 2029  
 (D) Initial Shut-In 668  Circ Sub — T-Pulled 2259  
 (E) Second Initial Flow 51  Hourly Standby — T-Out 7/8 0054  
 (F) Second Final Flow 69  Mileage 34 RT 25.50 Comments —  
 (G) Final Shut-In 632  Sampler —  
 (H) Final Hydrostatic 1639  Straddle —  Ruined Shale Packer —  
 Shale Packer —  Ruined Packer —  
 Extra Packer —  Extra Copies —  
 Extra Recorder — Sub Total 0  
 Day Standby — Total 1075.50  
 Accessibility — MP/DST Disc't —  
 Sub Total 1075.50

Approved By \_\_\_\_\_ Our Representative Brannan Lonsdale

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. 58059

Well Name & No. Reichert #4 Test No. 3 Date 8/8/16  
 Company Double D's LLC Elevation 1979 KB 1972 GL  
 Address 133 E 12<sup>th</sup> Hays, KS 67601  
 Co. Rep / Geo. Marc Dunning Rig Royal #1  
 Location: Sec. 23 Twp. 15 S Rge. 19 W Co. Ellis State KS

Interval Tested 3329-3350 Zone Tested 2KC "E"  
 Anchor Length 21' Drill Pipe Run 3325 Mud Wt. 93  
 Top Packer Depth 3324 Drill Collars Run — Vis 48  
 Bottom Packer Depth 3329 Wt. Pipe Run — WL 72  
 Total Depth 3350 Chlorides 2,600 ppm System LCM 2<sup>#</sup>

Blow Description IF - slowly built to 1/2"  
TSI - No blow  
FP - No blow  
FSI - No blow

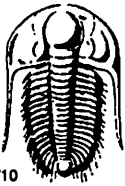
Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>MI</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2' BHT 101° Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1632</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0653</u>
(B) First Initial Flow <u>10</u>	<input type="checkbox"/> Jars _____	T-Started <u>0715</u>
(C) First Final Flow <u>12</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>0904</u>
(D) Initial Shut-In <u>41</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1024</u>
(E) Second Initial Flow <u>12</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1134</u>
(F) Second Final Flow <u>12</u>	<input checked="" type="checkbox"/> Mileage <u>34 RT</u> 25.50	Comments _____
(G) Final Shut-In <u>22</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1605</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>15</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>15</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>15</u>	<input type="checkbox"/> Day Standby _____	Total <u>1075.50</u>
Final Shut-In <u>15</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1075.50</u>	

Approved By \_\_\_\_\_ Our Representative Braman Lonsdale

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. 58060

Well Name & No. Reichert #4 Test No. 4 Date 8/9/16  
 Company Double D's LLC Elevation 1979 KB 1972 GL  
 Address 133 E. 12<sup>th</sup> Hays, KS 67601  
 Co. Rep / Geo. Marc Downing Rig Royal #1  
 Location: Sec. 23 Twp. 15 S Rge. 19 W Co. Ellis State KS

Interval Tested 3422-3470 Zone Tested LKC "JNJ"  
 Anchor Length 48' Drill Pipe Run 3421 Mud Wt. 9.0  
 Top Packer Depth 3417 Drill Collars Run — Vis 50  
 Bottom Packer Depth 3422 Wt. Pipe Run — WL 6.8  
 Total Depth 3470 Chlorides 2,900 ppm System LCM 2<sup>nd</sup>  
 Blow Description IF- BOB 2mins  
ISI- No Blow  
FF- BOB 2mins  
PST- No Blow

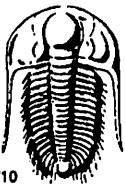
Rec	Feet of	%gas	%oil	%water	%mud
<u>12.6</u>	<u>6 WOCM</u>	<u>25</u>	<u>25</u>	<u>10</u>	<u>40</u>
<u>30</u>	<u>SOCM</u>	<u>—</u>	<u>5</u>	<u>—</u>	<u>95</u>
<u>—</u>	<u>285 WIP</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Rec Total 156' BHT 110° Gravity 26 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1726  Test 1050 T-On Location 0012  
 (B) First Initial Flow 27  Jars — T-Started 0025  
 (C) First Final Flow 58  Safety Joint — T-Open 0256  
 (D) Initial Shut-In 457  Circ Sub — T-Pulled 0526  
 (E) Second Initial Flow 61  Hourly Standby — T-Out 0719  
 (F) Second Final Flow 83  Mileage 34 RT 25.50 Comments —  
 (G) Final Shut-In 454  Sampler —  
 (H) Final Hydrostatic 1686  Straddle —  Ruined Shale Packer —  
 Shale Packer —  Ruined Packer —  
 Extra Packer —  Extra Copies —  
 Extra Recorder — Sub Total 0  
 Day Standby — Total 1075.50  
 Accessibility — MP/DST Disc't —  
 Sub Total 1075.50

Approved By \_\_\_\_\_ Our Representative Brannan Lonsdale

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 58061

Well Name & No. Reichert #4 Test No. 5 Date 8/9/16  
 Company Double D's LLC Elevation 1979 KB 1972 GL  
 Address 133 E 12<sup>th</sup> Hays, KS 67601  
 Co. Rep / Geo. Marc Dunning Rig Royal #1  
 Location: Sec. 23 Twp. 15 S Rge. 19 W Co. Ellis State KS

Interval Tested 3575-3605 Zone Tested Cong. Sand  
 Anchor Length 30' Drill Pipe Run 3579 Mud Wt. 9.1  
 Top Packer Depth 3570 Drill Collars Run — Vis 52  
 Bottom Packer Depth 3575 Wt. Pipe Run — WL 7.2  
 Total Depth 3605 Chlorides 2,900 ppm System LCM 2<sup>nd</sup>

Blow Description IF-BOB 2 mins  
ISI- No blow  
FF-BOB 2 mins  
FSI- No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1197</u>	<u>Feet of G/MCOW</u>	<u>10%</u>	<u>25%</u>	<u>55%</u>	<u>10%</u>
<u>195</u>	<u>Feet of G/MCO</u>	<u>5%</u>	<u>30%</u>	<u>25%</u>	<u>20%</u>
<u>—</u>	<u>Feet of 2187' GIP (Very faint odor)</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>Feet of</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>Feet of</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Rec Total 1392 BHT 116° Gravity 24 API RW 13 @ 84° F Chlorides 43,000 ppm  
 (A) Initial Hydrostatic 1862  Test 1050 T-On Location 1817  
 (B) First Initial Flow 58  Jars — T-Started 1825  
 (C) First Final Flow 355  Safety Joint — T-Open 2007  
 (D) Initial Shut-In 1194  Circ Sub — T-Pulled 2137  
 (E) Second Initial Flow 385  Hourly Standby — T-Out 8/10 @ 111  
 (F) Second Final Flow 631  Mileage 34 RT x 2 Comments Tools loaded  
 (G) Final Shut-In 1193  Sampler 51 8/10 @ 1515  
 (H) Final Hydrostatic 1793  Straddle —  Ruined Shale Packer —  
 Shale Packer —  Ruined Packer —  
 Extra Packer —  Extra Copies —  
 Extra Recorder — Sub Total 0  
 Day Standby — Total 1101  
 Accessibility — MP/DST Disc't —

Initial Open 15  
 Initial Shut-In 30  
 Final Flow 15  
 Final Shut-In 30  
 Sub Total 1101

Approved By \_\_\_\_\_ Our Representative Braman Lonsdale

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