



DRILL STEM TEST REPORT

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

133 E 12th
Hays, KS 67601

ATTN: Al Downing

Gottschalk #1

10-14s-19w Ellis,KS

Start Date: 2013.12.17 @ 06:14:40

End Date: 2013.12.17 @ 15:03:40

Job Ticket #: 55439 DST #: 1

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

Printed: 2013.12.20 @ 11:43:33

Double D's LLC
10-14s-19w Ellis,KS
Gottschalk #1
DST # 1
LKC A-D
2013.12.17



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Double D's LLC

10-14s-19w Ellis,KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55439

DST#: 1

ATTN: Al Downing

Test Start: 2013.12.17 @ 06:14:40

GENERAL INFORMATION:

Formation: **LKC A-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:50:55

Time Test Ended: 15:03:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan L

Unit No: 54

Interval: 3509.00 ft (KB) To 3585.00 ft (KB) (TVD)

Reference Elevations: 2209.00 ft (KB)

Total Depth: 3585.00 ft (KB) (TVD)

2203.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8789

Inside

Press@RunDepth: 377.25 psig @ 3517.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.17

End Date:

2013.12.17

Last Calib.: 2013.12.17

Start Time: 06:14:42

End Time:

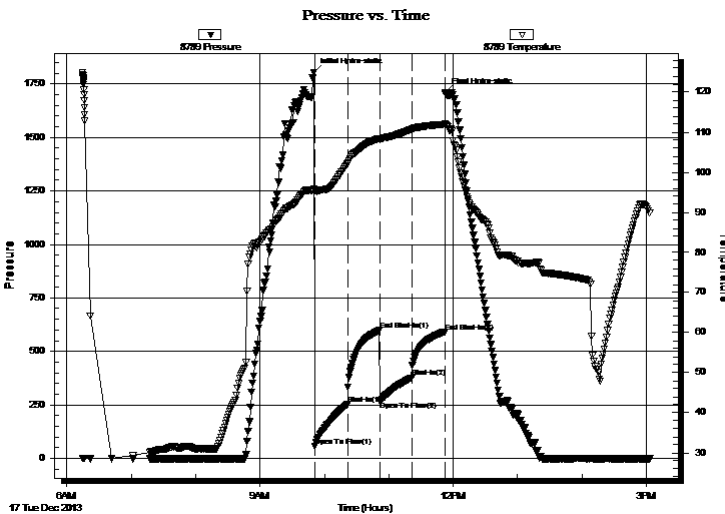
15:03:40

Time On Btm: 2013.12.17 @ 09:49:55

Time Off Btm: 2013.12.17 @ 11:52:25

TEST COMMENT: 30- IF- BOB 2 mins
30- IS- Surface blow that died half way through
30- FF- BOB 4 mins
30- FS- Surface blow throughout

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1804.28	95.78	Initial Hydro-static
1	56.04	95.44	Open To Flow (1)
32	253.40	102.17	Shut-In(1)
62	598.44	108.42	End Shut-In(1)
62	267.38	108.35	Open To Flow (2)
92	377.25	110.68	Shut-In(2)
122	590.74	111.91	End Shut-In(2)
123	1708.81	112.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
350.00	GOWM, 15%G 20%O 25%W 40%M	4.78
445.00	MOW, 10%M 10%O 80%W	6.08
0.00	30' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Double D's LLC

10-14s-19w Ellis,KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55439

DST#: 1

ATTN: Al Downing

Test Start: 2013.12.17 @ 06:14:40

Tool Information

Drill Pipe:	Length: 3522.00 ft	Diameter: 3.75 inches	Volume: 48.11 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 48.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3509.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	96.00 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			3490.00	
Shut In Tool	5.00			3495.00	
Hydraulic tool	5.00			3500.00	
Packer	5.00			3505.00	20.00 Bottom Of Top Packer
Packer	4.00			3509.00	
Stubb	1.00			3510.00	
Perforations	7.00			3517.00	
Recorder	0.00	8789	Inside	3517.00	
Recorder	0.00	8289	Outside	3517.00	
Blank Spacing	65.00			3582.00	
Bullnose	3.00			3585.00	76.00 Bottom Packers & Anchor

Total Tool Length: 96.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Double D's LLC

10-14s-19w Ellis,KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55439

DST#: 1

ATTN: Al Downing

Test Start: 2013.12.17 @ 06:14:40

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: 80000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume: bbl

Water Loss: 5.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
350.00	GOWM, 15%G 20%O 25%W 40%M	4.781
445.00	MOW, 10%M 10%O 80%W	6.079
0.00	30' GIP	0.000

Total Length: 795.00 ft Total Volume: 10.860 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

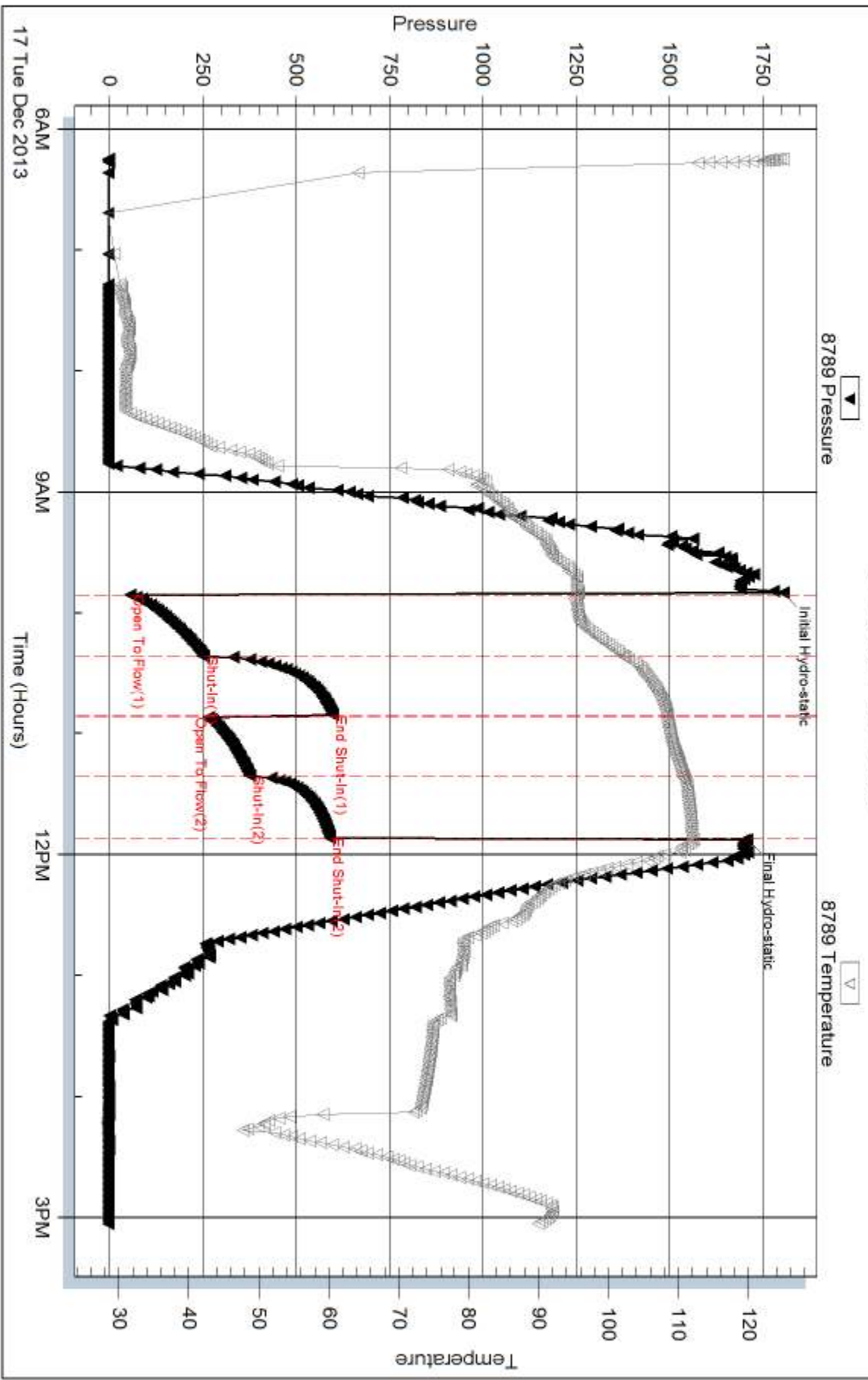
Serial #:

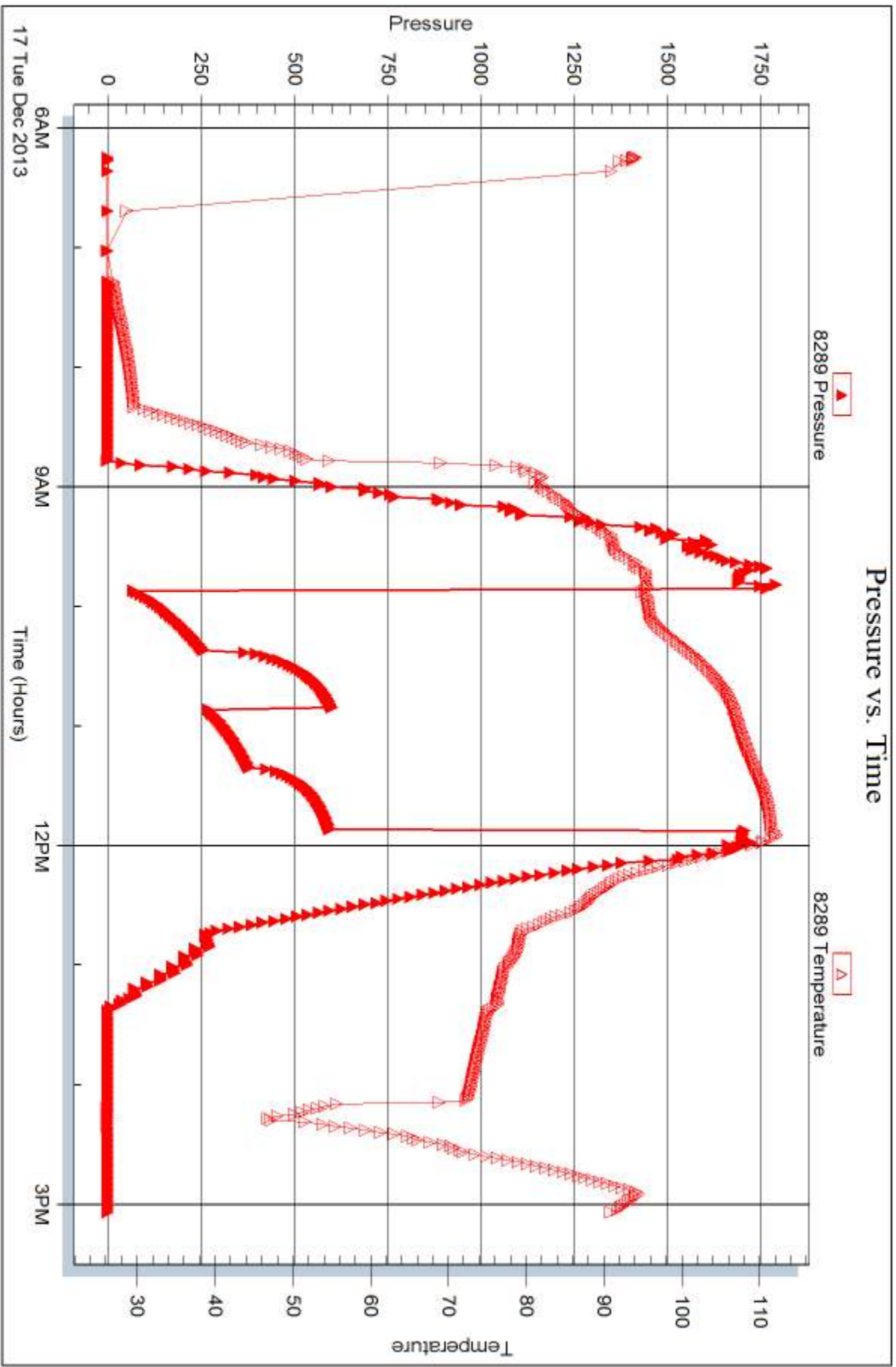
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

133 E 12th
Hays, KS 67601

ATTN: Al Downing

Gottschalk #1

10-14s-19w Ellis,KS

Start Date: 2013.12.17 @ 19:15:52

End Date: 2013.12.18 @ 02:08:52

Job Ticket #: 55440 DST #: 2

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

Printed: 2013.12.20 @ 11:42:53



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Double D's LLC

10-14s-19w Ellis,KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55440

DST#: 2

ATTN: Al Downing

Test Start: 2013.12.17 @ 19:15:52

GENERAL INFORMATION:

Formation: **LKC E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:21:07

Time Test Ended: 02:08:52

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan L

Unit No: 54

Interval: 3578.00 ft (KB) To 3597.00 ft (KB) (TVD)

Reference Elevations: 2209.00 ft (KB)

Total Depth: 3597.00 ft (KB) (TVD)

2203.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8789

Inside

Press@RunDepth: 72.96 psig @ 3594.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.17

End Date:

2013.12.18

Last Calib.: 2013.12.18

Start Time: 19:15:54

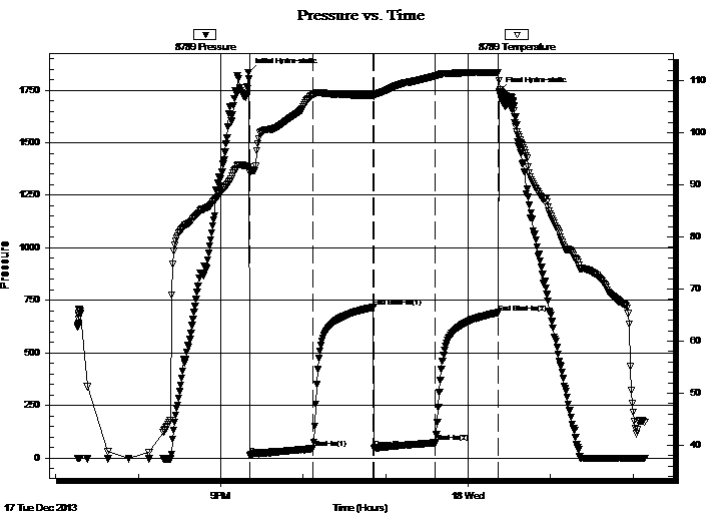
End Time:

02:08:52

Time On Btm: 2013.12.17 @ 21:20:07

Time Off Btm: 2013.12.18 @ 00:22:37

TEST COMMENT: 45- IF- BOB 38 mins
45- IS- Surface blow
45- FF- Built to 7"
45- FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1834.70	93.46	Initial Hydro-static
1	12.70	92.16	Open To Flow (1)
47	45.49	107.29	Shut-In(1)
91	717.16	107.17	End Shut-In(1)
92	47.42	106.96	Open To Flow (2)
136	72.96	110.84	Shut-In(2)
182	692.42	111.55	End Shut-In(2)
183	1743.31	109.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	MW, 80%W	1.78

* 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

10-14s-19w Ellis,KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55440

DST#: 2

ATTN: Al Downing

Test Start: 2013.12.17 @ 19:15:52

Tool Information

Drill Pipe:	Length: 3585.00 ft	Diameter: 3.75 inches	Volume: 48.97 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 48.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3578.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	39.00 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			3559.00	
Shut In Tool	5.00			3564.00	
Hydraulic tool	5.00			3569.00	
Packer	5.00			3574.00	20.00 Bottom Of Top Packer
Packer	4.00			3578.00	
Stubb	1.00			3579.00	
Perforations	15.00			3594.00	
Recorder	0.00	8789	Inside	3594.00	
Recorder	0.00	8289	Outside	3594.00	
Bullnose	3.00			3597.00	19.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



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FLUID SUMMARY

Double D's LLC

10-14s-19w Ellis,KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55440

DST#: 2

ATTN: Al Downing

Test Start: 2013.12.17 @ 19:15:52

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:

7500 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	MW, 80%W	1.776

Total Length: 130.00 ft

Total Volume: 1.776 bbl

Num Fluid Samples: 0

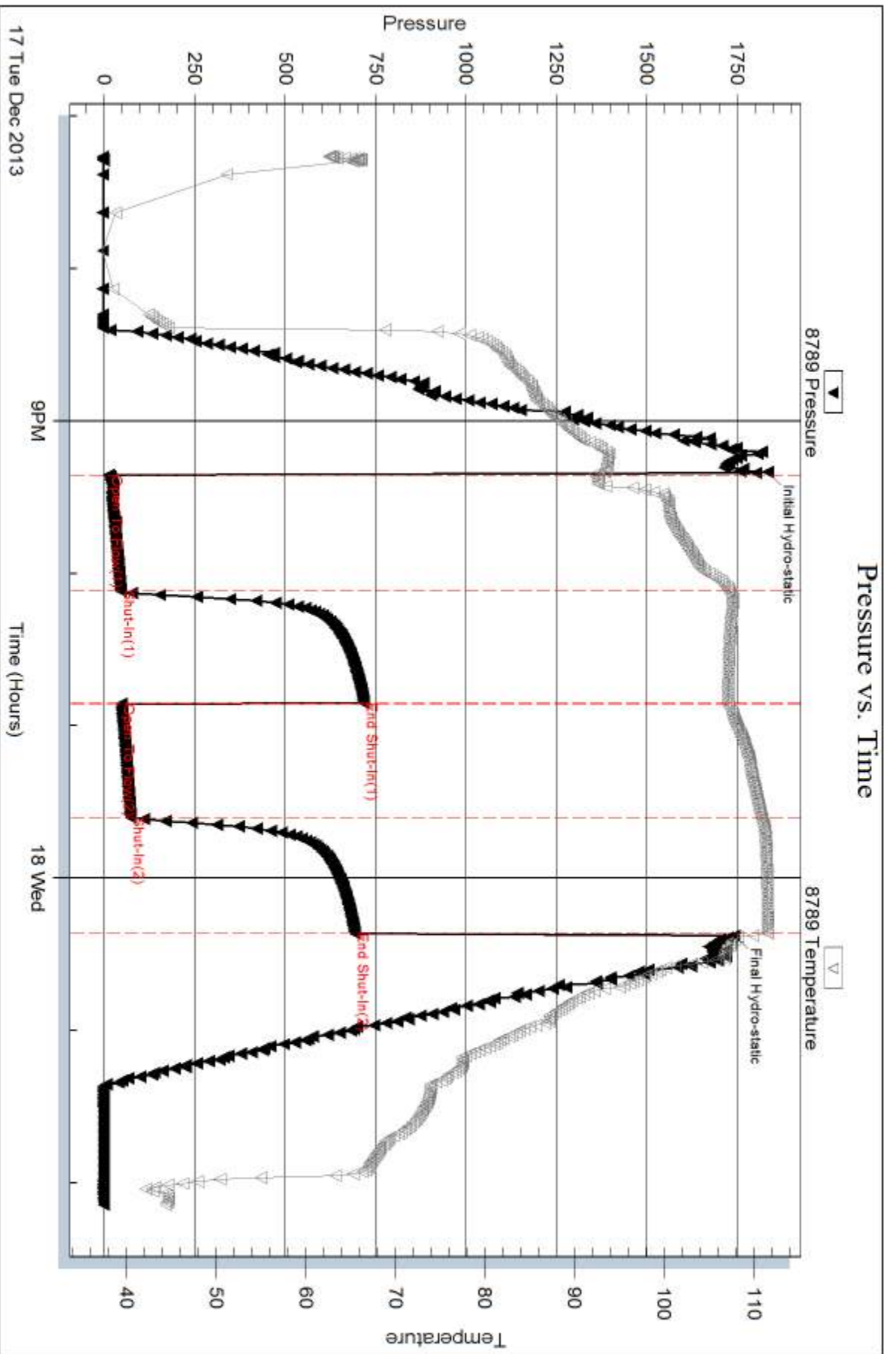
Num Gas Bombs: 0

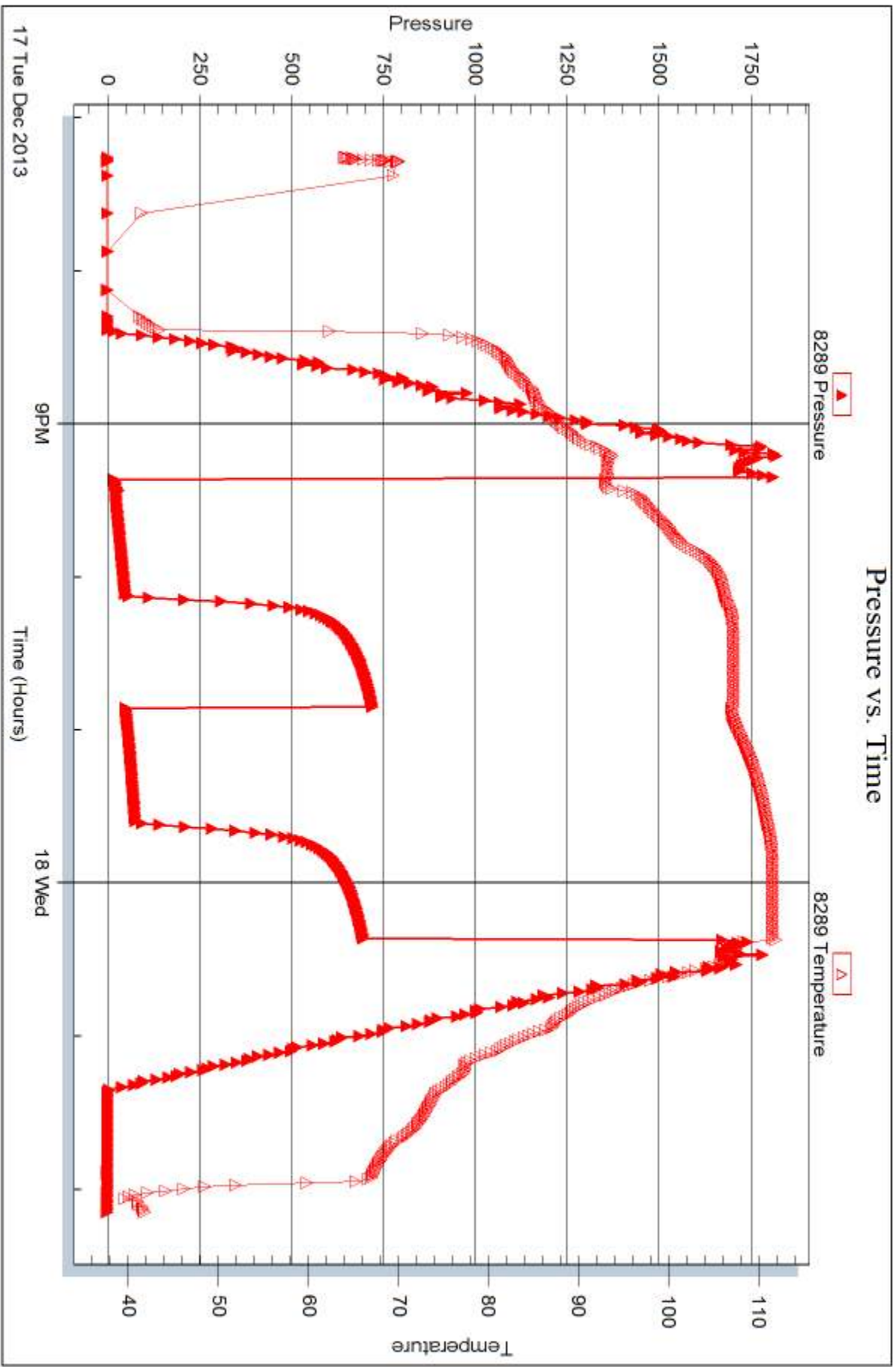
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

133 E 12th
Hays, KS 67601

ATTN: Al Downing

Gottschalk #1

10-14s-19w Ellis,KS

Start Date: 2013.12.18 @ 14:13:08

End Date: 2013.12.18 @ 18:36:38

Job Ticket #: 55441 DST #: 3

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

Printed: 2013.12.20 @ 11:41:26



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Double D's LLC

10-14s-19w Ellis,KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55441

DST#: 3

ATTN: Al Downing

Test Start: 2013.12.18 @ 14:13:08

GENERAL INFORMATION:

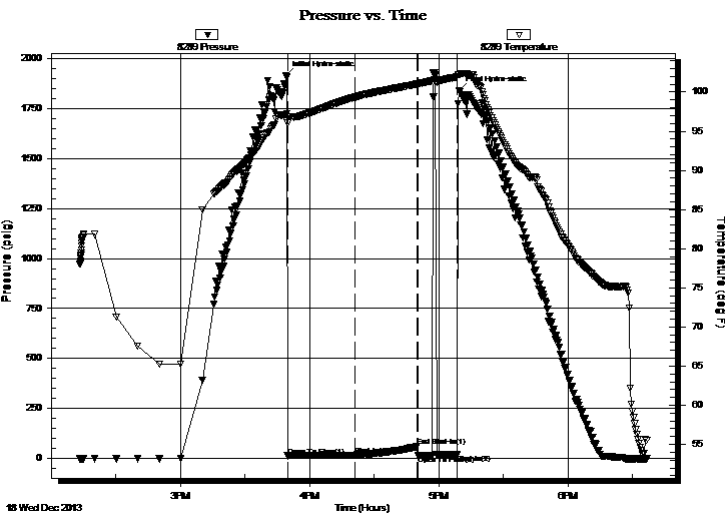
Formation: **KC 'I'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:49:38
 Time Test Ended: 18:36:38
 Interval: **3691.00 ft (KB) To 3711.00 ft (KB) (TVD)**
 Total Depth: 3711.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan L
 Unit No: 54
 Reference Elevations: 2209.00 ft (KB)
 2203.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 8289

Outside

Press@RunDepth: 16.86 psig @ 3708.00 ft (KB)
 Start Date: 2013.12.18 End Date: 2013.12.18
 Start Time: 14:13:10 End Time: 18:36:38
 Capacity: 8000.00 psig
 Last Calib.: 2013.12.18
 Time On Btm: 2013.12.18 @ 15:48:53
 Time Off Btm: 2013.12.18 @ 17:09:23

TEST COMMENT: 30- IF- Built very slow ly to 1"
 30- IS- No blow
 20- FF- Dead blow Flushed tool Surface blow Pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1915.55	97.09	Initial Hydro-static
1	13.52	96.01	Open To Flow (1)
32	16.86	99.33	Shut-In(1)
61	60.08	101.03	End Shut-In(1)
62	17.44	101.04	Open To Flow (2)
80	18.93	101.94	Shut-In(2)
81	1841.43	102.23	Final Hydro-static

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

10-14s-19w Ellis,KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55441

DST#: 3

ATTN: Al Downing

Test Start: 2013.12.18 @ 14:13:08

Tool Information

Drill Pipe:	Length: 3680.00 ft	Diameter: 3.75 inches	Volume: 50.27 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 50.27 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	53000.00 lb
Depth to Top Packer:	3691.00 ft			Final	53000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	40.00 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			3672.00	
Shut In Tool	5.00			3677.00	
Hydraulic tool	5.00			3682.00	
Packer	5.00			3687.00	20.00 Bottom Of Top Packer
Packer	4.00			3691.00	
Stubb	1.00			3692.00	
Perforations	16.00			3708.00	
Recorder	0.00	8789	Inside	3708.00	
Recorder	0.00	8289	Outside	3708.00	
Bullnose	3.00			3711.00	20.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Double D's LLC

10-14s-19w Ellis,KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55441

DST#: 3

ATTN: Al Downing

Test Start: 2013.12.18 @ 14:13:08

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	M	0.027

Total Length: 2.00 ft Total Volume: 0.027 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

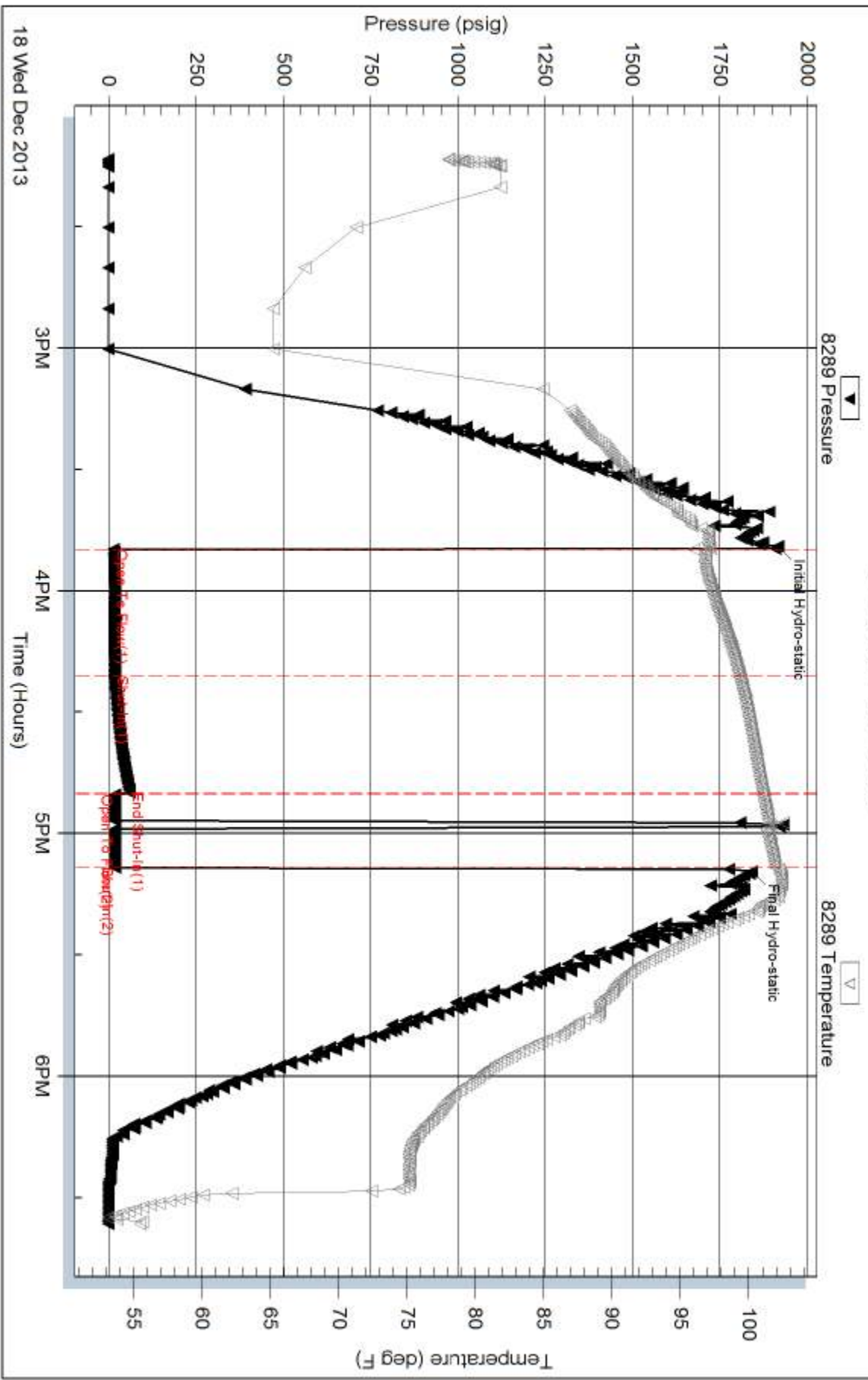
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



18 Wed Dec 2013

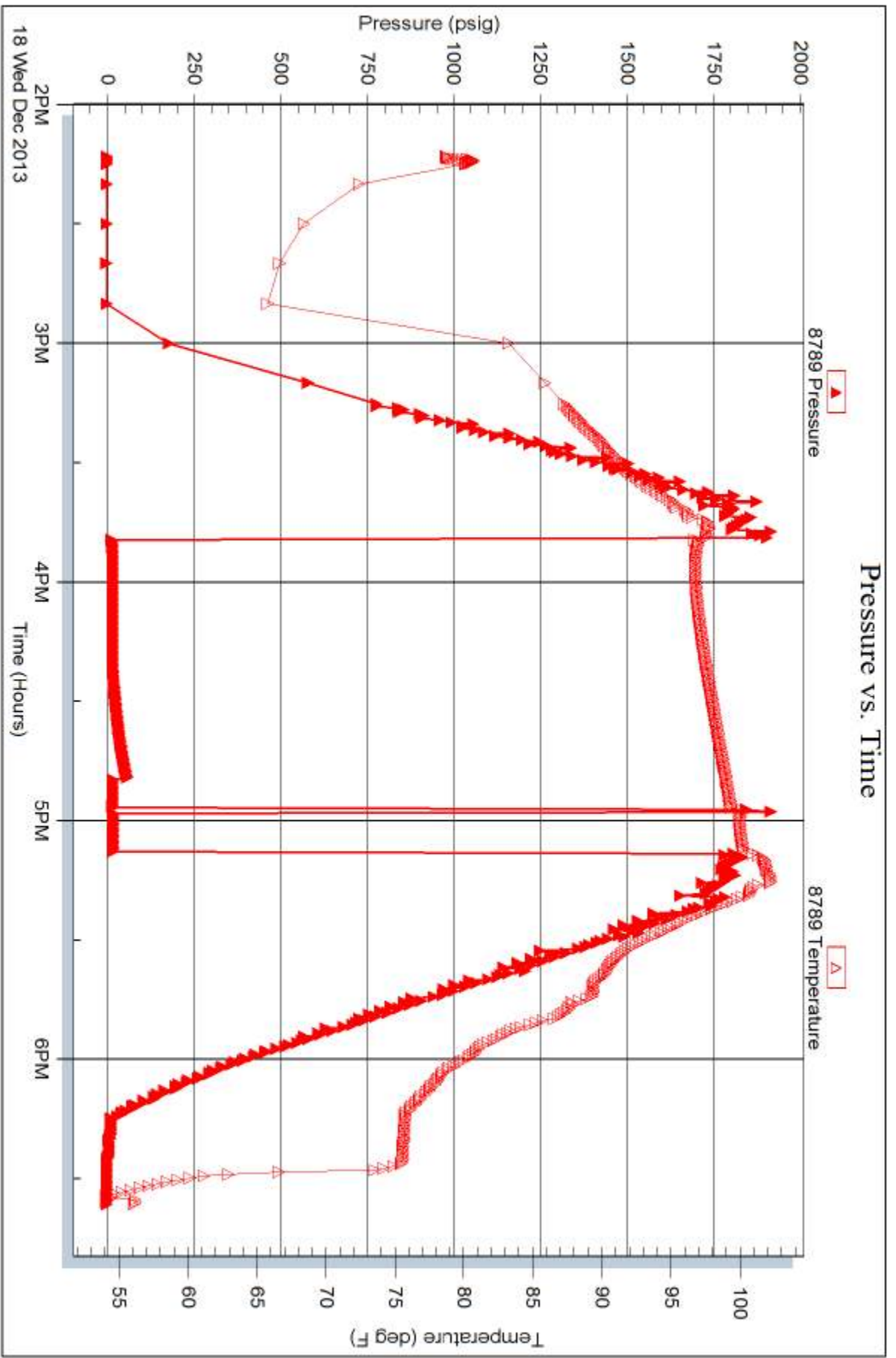
Serial #: 8789

Inside

Double Ds LLC

Gotschalk #1

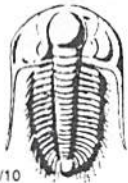
DST Test Number: 3



Tribble Testing, Inc

Ref. No: 55441

Printed: 2013.12.20 @ 11:41:28



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55439**

Well Name & No. Gottschalk #1 Test No. 1 Date 12/17/13
 Company Double D's LLC Elevation 2210 KB 2203 GL
 Address 133 E 12th Hays, KS 67601
 Co. Rep / Geo. Al Downing Rig Royal #1
 Location: Sec. 10 Twp. 14s Rge. 19w Co. Ellis State KS

Interval Tested 3509-3585 Zone Tested Lansing A-D
 Anchor Length 76' Drill Pipe Run 3522 Mud Wt. 9.0
 Top Packer Depth 3504 Drill Collars Run _____ Vis 56
 Bottom Packer Depth 3509 Wt. Pipe Run _____ WL 5.4
 Total Depth 3585 Chlorides 1500 ppm System LCM 2#

Blow Description IF- BOB 2 mins
ISI- Surface blow that died half way thru
FF- BOB 4 mins
FSI- Surface blow throughout

Rec	Feet of	%gas	%oil	%water	%mud
<u>350</u>	<u>LOWM</u>	<u>15%</u>	<u>20%</u>	<u>25%</u>	<u>40%</u>
<u>445</u>	<u>MOW</u>	<u>_____</u>	<u>10%</u>	<u>80%</u>	<u>10%</u>
<u>_____</u>	<u>30' 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>

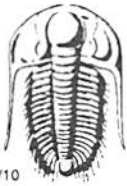
Rec Total 795 BHT 112° Gravity _____ API RW .09 @ 62° F Chlorides 80000 ppm

(A) Initial Hydrostatic 1804 Test 1150 T-On Location 0545
 (B) First Initial Flow 56 Jars _____ T-Started 0545 0614
 (C) First Final Flow 253 Safety Joint _____ T-Open 0950
 (D) Initial Shut-In 598 Circ Sub _____ T-Pulled 1150
 (E) Second Initial Flow 267 Hourly Standby _____ T-Out 1503
 (F) Second Final Flow 377 Mileage 26 RT 40.30 Comments _____
 (G) Final Shut-In 391 Sampler _____
 (H) Final Hydrostatic 1709 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 30 Extra Recorder _____ Sub Total 0
 Final Flow 30 Day Standby _____ Total 1190.30
 Final Shut-In 30 Accessibility _____ MP/DST Disc't _____
 Sub Total 1190.30

Approved By _____ Our Representative Brennan L

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. 55440

Well Name & No. Gottschalk #1 Test No. 2 Date 12/17/13
 Company Powder D's LLC Elevation 2209 KB 2203 GL
 Address 133 E. 12th Hays, KS 67601
 Co. Rep / Geo. Al Downing Rig Royal #1
 Location: Sec. 10 Twp. 14S Rge. 19W Co. Ellis State KS

Interval Tested 3578-3597 Zone Tested Lansing E
 Anchor Length 19' Drill Pipe Run 3585 Mud Wt. 9.0
 Top Packer Depth 3573 Drill Collars Run --- Vis 56
 Bottom Packer Depth 3578 Wt. Pipe Run --- WL 5.4
 Total Depth 3597 Chlorides 1,500 ppm System LCM 2#

Blow Description IF - BDB 38 mins
ISI - Surface blow
FF - Built slowly to 2"
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>130</u>	<u>MW</u>			<u>80</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

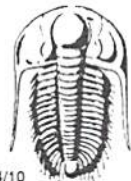
Rec Total 130 BHT 112° Gravity --- API RW .16 @ 38° F Chlorides 1,500 ppm

(A) Initial Hydrostatic 1835 Test 1150 T-On Location 1910
 (B) First Initial Flow 13 Jars --- T-Started 1915
 (C) First Final Flow 45 Safety Joint --- T-Open 2120
 (D) Initial Shut-In 717 Circ Sub --- T-Pulled 0020
 (E) Second Initial Flow 47 Hourly Standby --- T-Out 0208
 (F) Second Final Flow 73 Mileage 26 RT 40.30 Comments ---
 (G) Final Shut-In 692 Sampler ---
 (H) Final Hydrostatic 1743 Straddle --- Ruined Shale Packer ---
 Shale Packer --- Ruined Packer ---

Initial Open 45 Extra Packer --- Extra Copies ---
 Initial Shut-In 45 Extra Recorder --- Sub Total 0
 Final Flow 45 Day Standby --- Total 1190.30
 Final Shut-In 45 Accessibility --- MP/DST Disc't ---
 Sub Total 1190.30

Approved By _____ Our Representative Brannon L

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. 55441

Well Name & No. Gottschalk #1 Test No. 3 Date 12/18/13
 Company Double D's LLC Elevation 2209 KB 2203 GL
 Address 133 E 12th Hays, KS 67601
 Co. Rep / Geo. Al Downing Rig Royal #1
 Location: Sec. 10 Twp. 14s Rge. 19w Co. Ellis State KS

Interval Tested 3691-3711 Zone Tested KC "I"
 Anchor Length 20' Drill Pipe Run 3680 Mud Wt. 9.0
 Top Packer Depth 3686 Drill Collars Run — Vis 59
 Bottom Packer Depth 3691 Wt. Pipe Run — WL 6.4
 Total Depth 3711 Chlorides 1,500 ppm System LCM 1#

Blow Description IF - Built very slowly to 1"
ISI - No blow
FF - Dead flow flushed tool surface blow pulled tool
FSI -

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>M</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 2 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1916</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1410</u>
(B) First Initial Flow <u>14</u>	<input type="checkbox"/> Jars _____	T-Started <u>1413</u>
(C) First Final Flow <u>17</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>1550</u>
(D) Initial Shut-In <u>60</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1710</u>
(E) Second Initial Flow <u>17</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1837</u>
(F) Second Final Flow <u>19</u>	<input checked="" type="checkbox"/> Mileage <u>26 RT</u> 80.60	Comments <u>Loaded tools</u>
(G) Final Shut-In _____	<input type="checkbox"/> Sampler _____	<u>12/19 @ 1645</u>
(H) Final Hydrostatic <u>1841</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 20
 Final Shut-In _____

Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1230.60
 MP/DST Disc't _____

Sub Total 1230.60

Approved By _____ Our Representative Brannan L

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