



DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Rd
Hays KS 67601

ATTN: Herb Dienes

Desmarteau #1

31-11s-18w Ellis,KS

Start Date: 2015.11.08 @ 04:31:00

End Date: 2015.11.08 @ 10:22:00

Job Ticket #: 61669 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.11.10 @ 16:42:17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

31-11s-18w Ellis,KS
Desmarteau #1
Job Ticket: 61669 **DST#: 1**
Test Start: 2015.11.08 @ 04:31:00

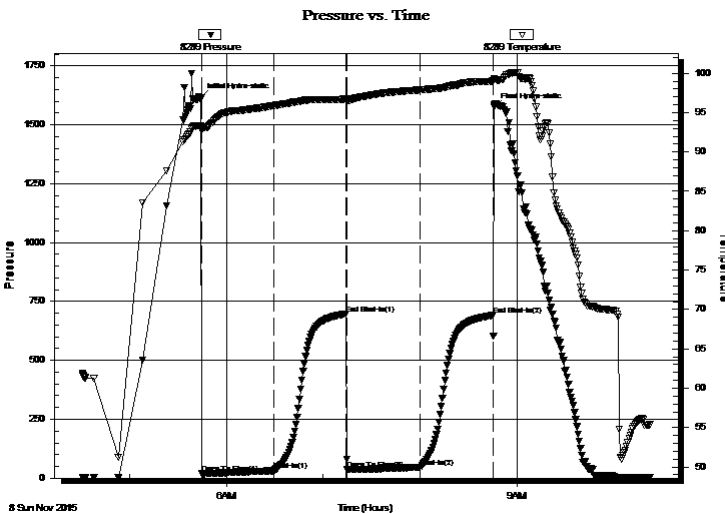
GENERAL INFORMATION:

Formation: **Toronto - LKC " C "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:44:30
 Time Test Ended: 10:22:00
 Interval: **3360.00 ft (KB) To 3455.00 ft (KB) (TVD)**
 Total Depth: 3455.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jim Svaty
 Unit No: 76
 Reference Elevations: 2129.00 ft (KB)
 2119.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8289 Outside
 Press@RunDepth: 46.19 psig @ 3364.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.11.08 End Date: 2015.11.08 Last Calib.: 2015.11.08
 Start Time: 04:31:02 End Time: 10:22:00 Time On Btm: 2015.11.08 @ 05:44:15
 Time Off Btm: 2015.11.08 @ 08:45:45

TEST COMMENT: 45-IF- Surface Blow Building to 1 1/4". In 6 min.
 45-ISI- No Blow
 45-FF- 2 1/4" Blow in 1 min. Died Back in 5 min.
 45-FSI- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1613.65	93.36	Initial Hydro-static
1	18.58	92.76	Open To Flow (1)
46	31.41	95.90	Shut-In(1)
90	698.06	96.71	End Shut-In(1)
91	36.68	96.47	Open To Flow (2)
136	46.19	97.91	Shut-In(2)
181	691.73	98.98	End Shut-In(2)
182	1574.83	99.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
67.00	OCM 30%o 70%m	0.94
0.00	120 GIP	0.00

Gas Rates

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



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TESTING, INC

DRILL STEM TEST REPORT

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

31-11s-18w Ellis,KS
Desmarteau #1
Job Ticket: 61669 **DST#: 1**
Test Start: 2015.11.08 @ 04:31:00

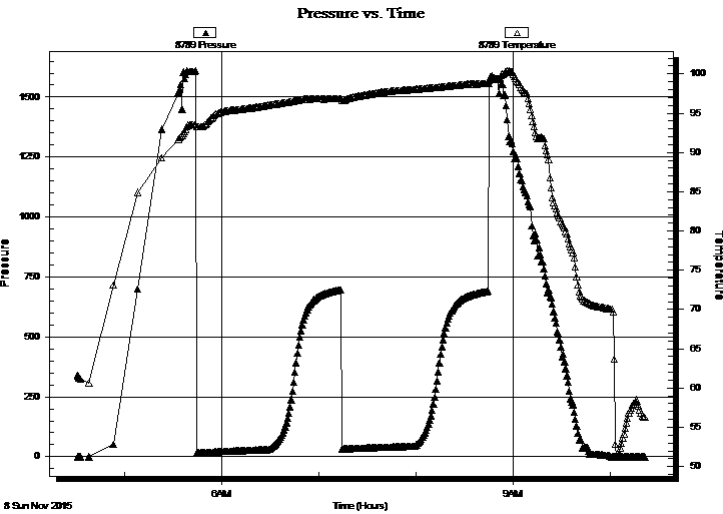
GENERAL INFORMATION:

Formation: **Toronto - LKC " C "**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 05:44:30 Tester: Jim Svaty
Time Test Ended: 10:22:00 Unit No: 76
Interval: 3360.00 ft (KB) To 3455.00 ft (KB) (TVD) Reference Elevations: 2129.00 ft (KB)
Total Depth: 3455.00 ft (KB) (TVD) 2119.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8789 Inside

Press@RunDepth: psig @ 3364.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.11.08 End Date: 2015.11.08 Last Calib.: 2015.11.08
Start Time: 04:31:02 End Time: 10:21:45 Time On Btm:
Time Off Btm:

TEST COMMENT: 45-IF- Surface Blow Building to 1 1/4". In 6 min.
45-ISI- No Blow
45-FF- 2 1/4" Blow in 1 min. Died Back in 5 min.
45-FSI- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
67.00	OCM 30%o 70%m	0.94
0.00	120 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

31-11s-18w Ellis,KS
Desmarteau #1
Job Ticket: 61669 **DST#: 1**
Test Start: 2015.11.08 @ 04:31:00

Tool Information

Drill Pipe:	Length: 3370.00 ft	Diameter: 3.80 inches	Volume: 47.27 bbl	Tool Weight:	2500.00 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:	45000.00 lb
			<u>Total Volume: 47.27 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3360.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	95.00 ft				
Tool Length:	116.00 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			3340.00	
Shut In Tool	5.00			3345.00	
Hydraulic tool	5.00			3350.00	
Packer	5.00			3355.00	21.00 Bottom Of Top Packer
Packer	5.00			3360.00	
Stubb	1.00			3361.00	
Perforations	2.00			3363.00	
Change Over Sub	1.00			3364.00	
Recorder	0.00	8789	Inside	3364.00	
Recorder	0.00	8289	Outside	3364.00	
Blank Spacing	62.00			3426.00	
Change Over Sub	1.00			3427.00	
Perforations	25.00			3452.00	
Bullnose	3.00			3455.00	95.00 Bottom Packers & Anchor

Total Tool Length: 116.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc. **31-11s-18w Ellis,KS**
 1310 Bison Rd **Desmarteau #1**
 Hays KS 67601 Job Ticket: 61669 **DST#: 1**
 ATTN: Herb Dienes Test Start: 2015.11.08 @ 04:31:00

Mud and Cushion Information

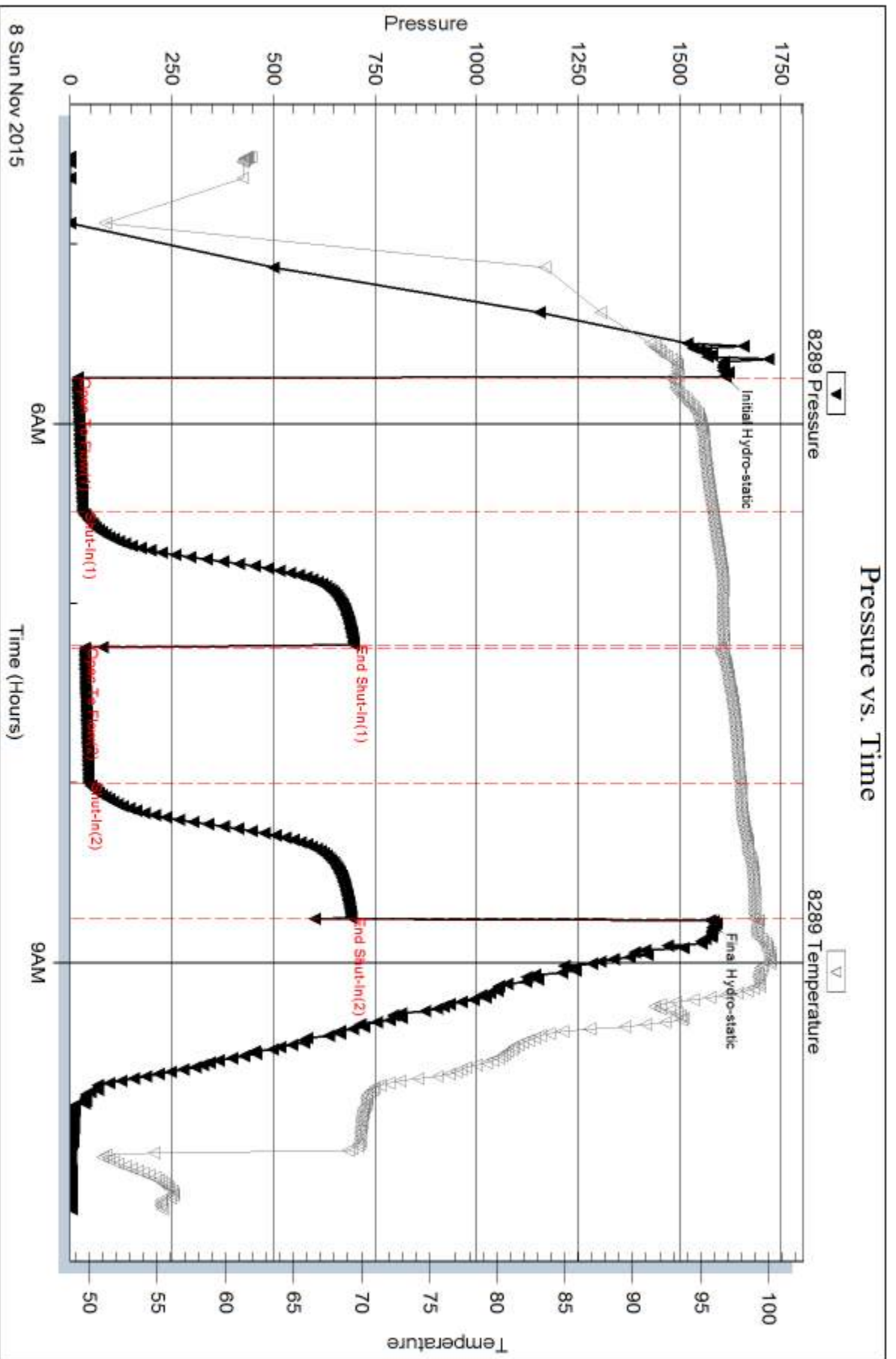
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 8.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.17 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2200.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
67.00	OCM 30%o 70%m	0.940
0.00	120 GIP	0.000

Total Length: 67.00 ft Total Volume: 0.940 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



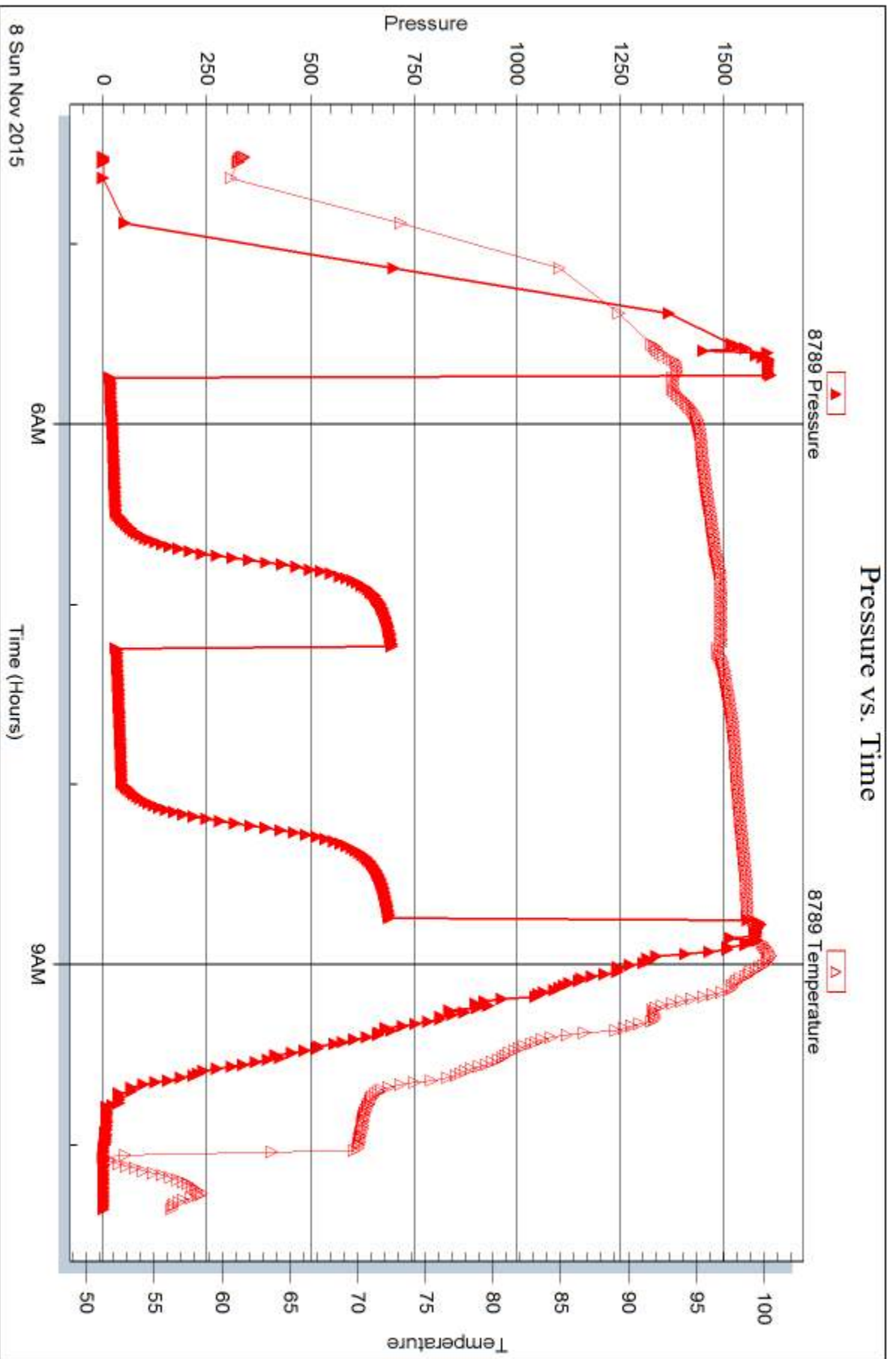
Serial #: 8789

Inside

TDI Inc.

Desmarneau #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Rd
Hays KS 67601

ATTN: Herb Dienes

Desmarteau #1

31-11s-18w Ellis,KS

Start Date: 2015.11.08 @ 15:15:00

End Date: 2015.11.08 @ 21:14:00

Job Ticket #: 61670 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.11.10 @ 16:41:59

TDI Inc.
31-11s-18w Ellis,KS
Desmarteau #1
DST # 2
LKC " D "
2015.11.08



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

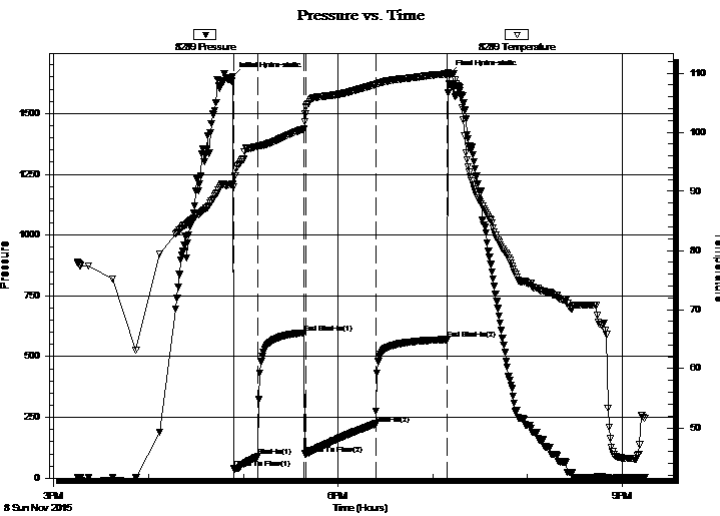
31-11s-18w Ellis,KS
Desmarteau #1
Job Ticket: 61670 **DST#: 2**
Test Start: 2015.11.08 @ 15:15:00

GENERAL INFORMATION:

Formation: **LKC " D "**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 16:54:00 Tester: Jim Svaty
Time Test Ended: 21:14:00 Unit No: 76
Interval: 3450.00 ft (KB) To 3475.00 ft (KB) (TVD) Reference Elevations: 2129.00 ft (KB)
Total Depth: 3475.00 ft (KB) (TVD) 2119.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8289 Outside
Press@RunDepth: 223.35 psig @ 3452.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.11.08 End Date: 2015.11.08 Last Calib.: 2015.11.08
Start Time: 15:15:02 End Time: 21:14:15 Time On Btm: 2015.11.08 @ 16:53:30
Time Off Btm: 2015.11.08 @ 19:10:15

TEST COMMENT: 15-IF- BOB in 2 min.
30-ISI- Weak Surface Blow
45-FF- BOB in 6 min.
45-FSI- Surface Blow Building to 6 1/4" in 16 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1653.50	91.20	Initial Hydro-static
1	38.75	90.79	Open To Flow (1)
16	89.14	97.59	Shut-In(1)
45	598.12	100.56	End Shut-In(1)
46	98.68	103.07	Open To Flow (2)
91	223.35	108.05	Shut-In(2)
136	570.47	109.84	End Shut-In(2)
137	1659.67	109.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
137.00	Oil Speck MCW 5% m 95% w	1.92
113.00	GWMCO 15% w 15% m 30% g 40% o	1.59
250.00	CO 100%	3.51
0.00	935 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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

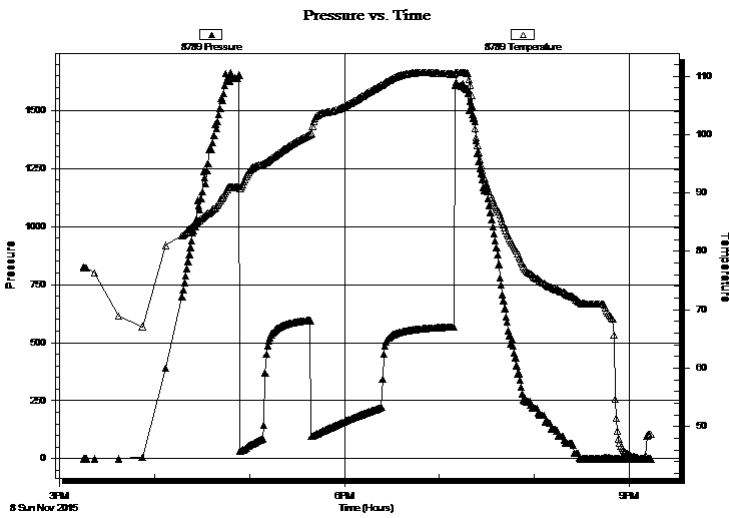
31-11s-18w Ellis,KS
Desmarteau #1
Job Ticket: 61670 **DST#: 2**
Test Start: 2015.11.08 @ 15:15:00

GENERAL INFORMATION:

Formation: **LKC " D "**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 16:54:00 Tester: Jim Svaty
Time Test Ended: 21:14:00 Unit No: 76
Interval: 3450.00 ft (KB) To 3475.00 ft (KB) (TVD) Reference Elevations: 2129.00 ft (KB)
Total Depth: 3475.00 ft (KB) (TVD) 2119.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8789 Inside
Press@RunDepth: psig @ 3452.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.11.08 End Date: 2015.11.08 Last Calib.: 2015.11.08
Start Time: 15:15:02 End Time: 21:14:00 Time On Btm:
Time Off Btm:

TEST COMMENT: 15-IF- BOB in 2 min.
30-ISI- Weak Surface Blow
45-FF- BOB in 6 min.
45-FSI- Surface Blow Building to 6 1/4" in 16 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
137.00	Oil Speck MCW 5% m 95% w	1.92
113.00	GWMCO 15% w 15% m 30% g 40% o	1.59
250.00	CO 100%	3.51
0.00	935 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

31-11s-18w Ellis,KS
Desmarteau #1
Job Ticket: 61670 **DST#: 2**
Test Start: 2015.11.08 @ 15:15:00

Tool Information

Drill Pipe:	Length: 3433.00 ft	Diameter: 3.80 inches	Volume: 48.16 bbl	Tool Weight:	2500.00 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:	45000.00 lb
			<u>Total Volume: 48.16 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3450.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	25.00 ft				
Tool Length:	46.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3430.00	
Shut In Tool	5.00			3435.00	
Hydraulic tool	5.00			3440.00	
Packer	5.00			3445.00	21.00 Bottom Of Top Packer
Packer	5.00			3450.00	
Stubb	1.00			3451.00	
Perforations	1.00			3452.00	
Recorder	0.00	8789	Inside	3452.00	
Recorder	0.00	8289	Outside	3452.00	
Perforations	20.00			3472.00	
Bullnose	3.00			3475.00	25.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc. **31-11s-18w Ellis,KS**
 1310 Bison Rd **Desmarteau #1**
 Hays KS 67601 Job Ticket: 61670 **DST#: 2**
 ATTN: Herb Dienes Test Start: 2015.11.08 @ 15:15:00

Mud and Cushion Information

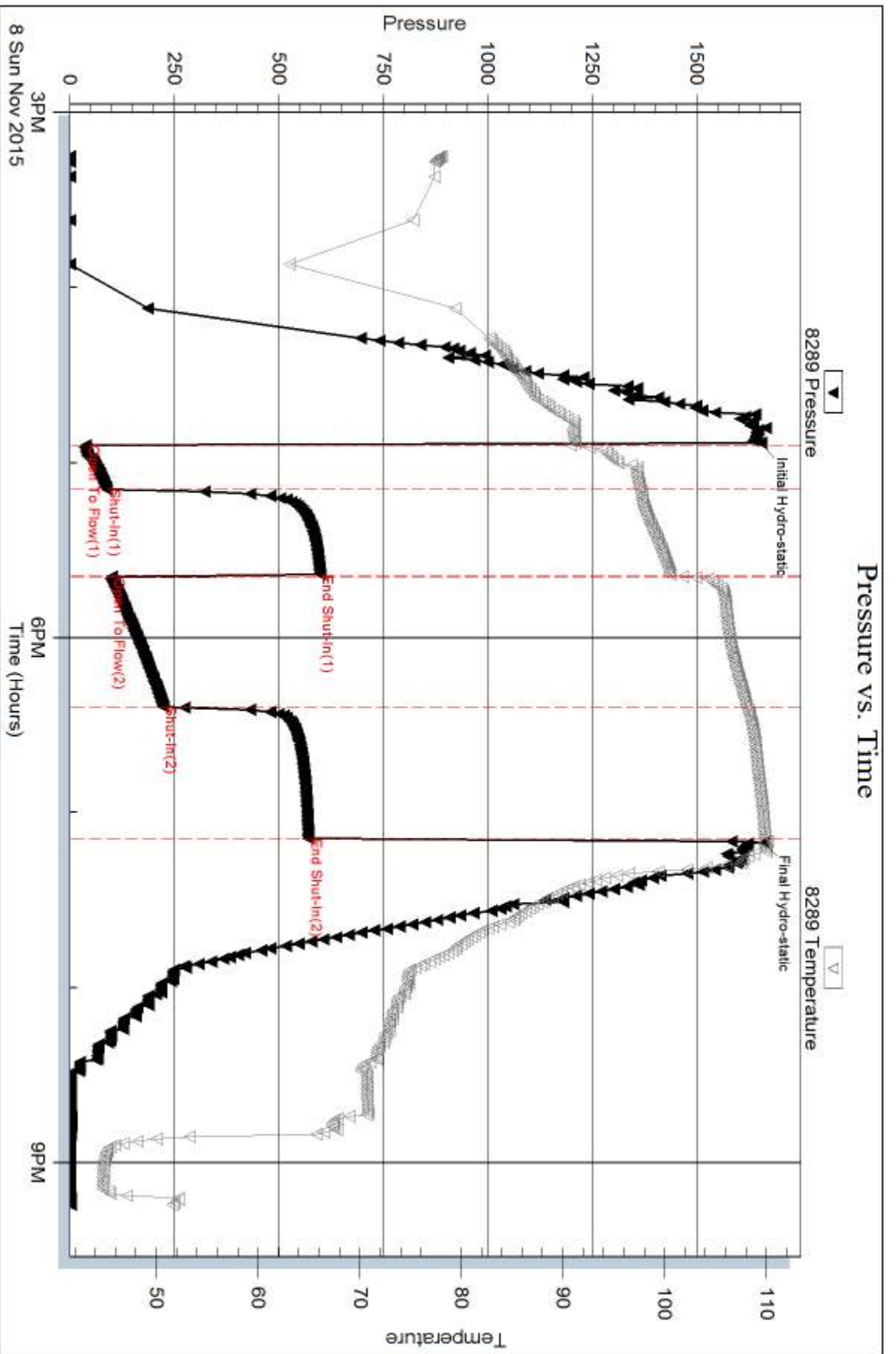
Mud Type: Gel Chem	Cushion Type:	Oil API: 31 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 125000 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.96 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4800.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
137.00	Oil Speck MCW 5%m 95%w	1.922
113.00	GWMCO 15%w 15%m 30%g 40%o	1.585
250.00	CO 100%	3.507
0.00	935 GIP	0.000

Total Length: 500.00 ft Total Volume: 7.014 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: .095 @ 53



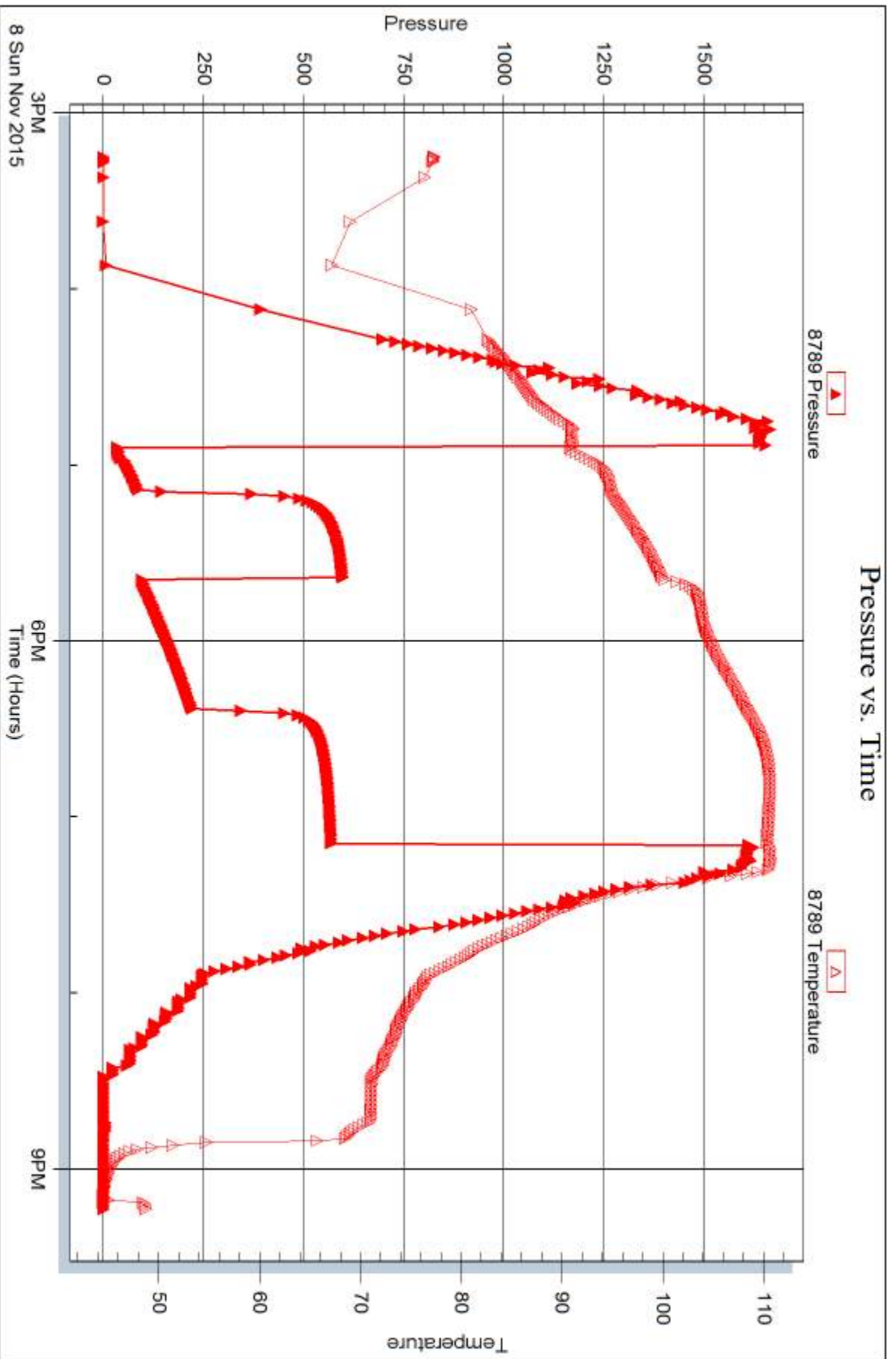
Serial #: 8789

Inside

TDI Inc.

Desmarneau #1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 61670

Printed: 2015.11.10 @ 16:42:00



DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Rd
Hays KS 67601

ATTN: Herb Dienes

Desmarteau #1

31-11s-18w Ellis,KS

Start Date: 2015.11.09 @ 11:02:00

End Date: 2015.11.09 @ 17:17:00

Job Ticket #: 61671 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.11.10 @ 16:41:28

TDI Inc.
31-11s-18w Ellis,KS
Desmarteau #1
DST # 3
LKC " I - K "
2015.11.09



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

31-11s-18w Ellis,KS
Desmarteau #1
Job Ticket: 61671 **DST#: 3**
Test Start: 2015.11.09 @ 11:02:00

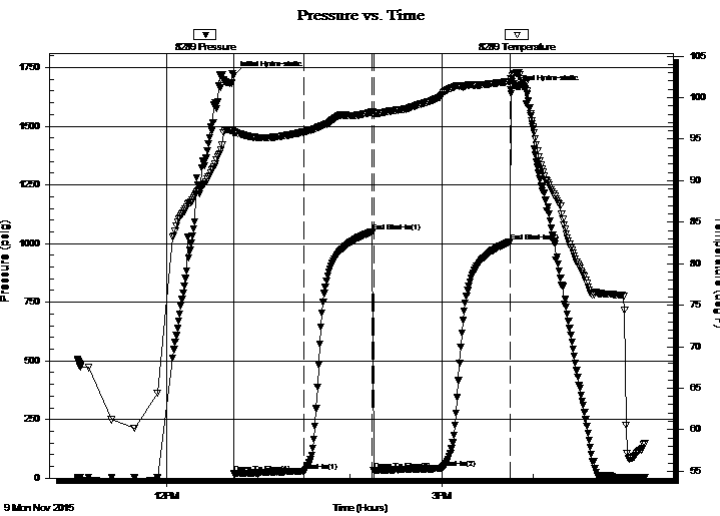
GENERAL INFORMATION:

Formation: **LKC " I - K "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:44:15
 Time Test Ended: 17:17:00
 Interval: **3554.00 ft (KB) To 3615.00 ft (KB) (TVD)**
 Total Depth: 3615.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 76
 Reference Elevations: 2129.00 ft (KB)
 2119.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8289 Outside

Press@RunDepth: 41.47 psig @ 3559.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.11.09 End Date: 2015.11.09 Last Calib.: 2015.11.09
 Start Time: 11:02:02 End Time: 17:13:00 Time On Btm: 2015.11.09 @ 12:44:00
 Time Off Btm: 2015.11.09 @ 15:45:15

TEST COMMENT: 45-IS- Surface Blow Building to 2 1/4"
 45-IS- No Blow
 60-FF- Surface Blow Died in 8 min.
 60-FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1715.07	96.15	Initial Hydro-static
1	20.07	95.62	Open To Flow (1)
46	29.84	95.87	Shut-In(1)
91	1050.16	98.29	End Shut-In(1)
92	34.51	98.01	Open To Flow (2)
136	41.47	100.23	Shut-In(2)
181	1007.71	101.97	End Shut-In(2)
182	1656.13	102.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Oil Speck WCM 25%w 75%m	0.63
0.00	6 inch Oil Cap 100%	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

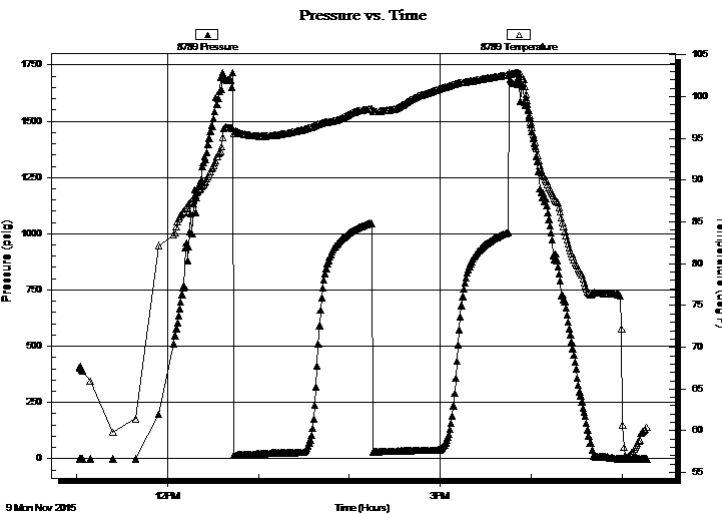
31-11s-18w Ellis,KS
Desmarteau #1
Job Ticket: 61671 **DST#: 3**
Test Start: 2015.11.09 @ 11:02:00

GENERAL INFORMATION:

Formation: **LKC "I - K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:44:15
Time Test Ended: 17:17:00
Interval: 3554.00 ft (KB) To 3615.00 ft (KB) (TVD)
Total Depth: 3615.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 76
Reference Elevations: 2129.00 ft (KB)
2119.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8789 Inside
Press@RunDepth: psig @ 3559.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.11.09 End Date: 2015.11.09 Last Calib.: 2015.11.09
Start Time: 11:02:02 End Time: 17:16:45 Time On Btm:
Time Off Btm:

TEST COMMENT: 45-IF- Surface Blow Building to 2 1/4"
45-ISI- No Blow
60-FF- Surface Blow Died in 8 min.
60-FSI- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Oil Speck WCM 25%w 75%m	0.63
0.00	6 inch Oil Cap 100%	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

31-11s-18w Ellis,KS
Desmarteau #1
Job Ticket: 61671 **DST#: 3**
Test Start: 2015.11.09 @ 11:02:00

Tool Information

Drill Pipe:	Length: 3557.00 ft	Diameter: 3.80 inches	Volume: 49.90 bbl	Tool Weight:	2500.00 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:	45000.00 lb
			<u>Total Volume: 49.90 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	41000.00 lb
Depth to Top Packer:	3554.00 ft			Final	41000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	61.00 ft				
Tool Length:	82.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3534.00	
Shut In Tool	5.00			3539.00	
Hydraulic tool	5.00			3544.00	
Packer	5.00			3549.00	21.00 Bottom Of Top Packer
Packer	5.00			3554.00	
Stubb	1.00			3555.00	
Perforations	3.00			3558.00	
Change Over Sub	1.00			3559.00	
Recorder	0.00	8789	Inside	3559.00	
Recorder	0.00	8289	Outside	3559.00	
Blank Spacing	32.00			3591.00	
Change Over Sub	1.00			3592.00	
Perforations	20.00			3612.00	
Bullnose	3.00			3615.00	61.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc. **31-11s-18w Ellis,KS**
 1310 Bison Rd **Desmarteau #1**
 Hays KS 67601 Job Ticket: 61671 **DST#: 3**
 ATTN: Herb Dienes Test Start: 2015.11.09 @ 11:02:00

Mud and Cushion Information

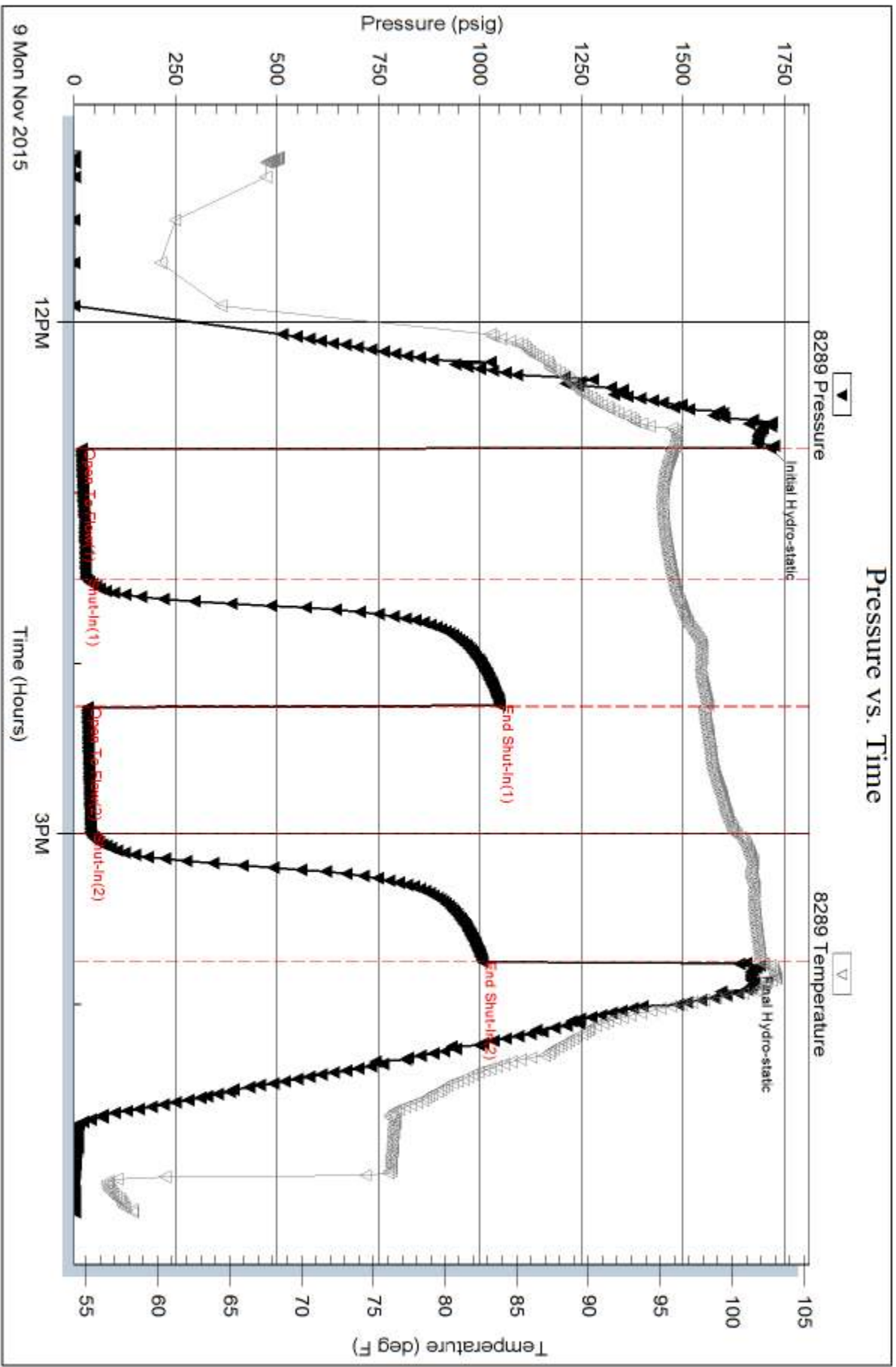
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	26000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5700.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Oil Speck WCM 25%w 75%m	0.631
0.00	6 inch Oil Cap 100%	0.000

Total Length: 45.00 ft Total Volume: 0.631 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: .275 @ 67



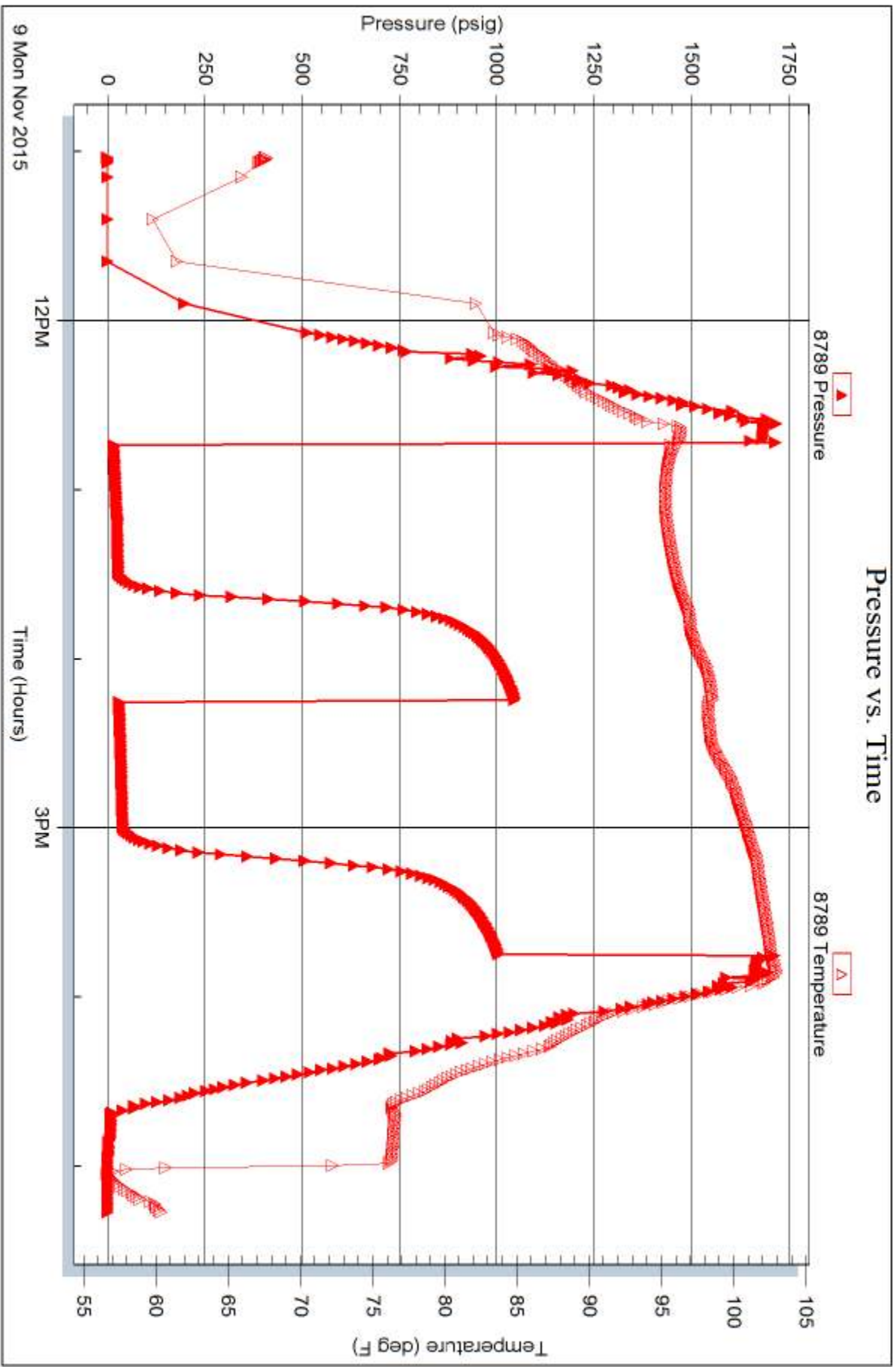
Serial #: 8789

Inside

TDI Inc.

Desmarteau #1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 61671

Printed: 2015.11.10 @ 16:41:30



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61669

Well Name & No. Desmarreau #1 Test No. 1 Date 11-8-15
 Company TDI Inc. Elevation 2129 KB 2119 GL
 Address 1310 Bison Rd Hays KS, 67601
 Co. Rep / Geo. Herb Dienes Rig Southwind #1
 Location: Sec. 31 Twp. 11S Rge. 18W Co. Ellis State KS

Interval Tested 3360-3455 Zone Tested Toronto + LKC A-C
 Anchor Length 95 Drill Pipe Run 3370 Mud Wt. 8.5
 Top Packer Depth 3355 Drill Collars Run 0 Vis 62
 Bottom Packer Depth 3360 Wt. Pipe Run 0 WL 7.2
 Total Depth 3455 Chlorides 2200 ppm System LCM 2

Blow Description IF - Surface Blow Building to 1 1/4 in. in 6 min.
ISI - No Blow
FF - 2 1/4 in. Blow in / min. Died Back in 5 min.
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>67</u>	<u>OCM</u>	<u>30</u>		<u>70</u>	
	<u>120 DIP</u>				

Rec Total 67 BHT 99 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1613 Test 1050 T-On Location 3:46
 (B) First Initial Flow 18 Jars _____ T-Started 4:31
 (C) First Final Flow 31 Safety Joint _____ T-Open 5:45
 (D) Initial Shut-In 698 Circ Sub _____ T-Pulled 8:45
 (E) Second Initial Flow 36 Hourly Standby _____ T-Out 10:22
 (F) Second Final Flow 46 Mileage 31 RT Comments _____
 (G) Final Shut-In 691 Sampler _____
 (H) Final Hydrostatic 1574 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 45 Shale Packer _____
 Initial Shut-In 45 Extra Packer _____
 Final Flow 45 Extra Recorder _____ Sub Total 0
 Final Shut-In 45 Day Standby _____ Total 1081
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1081

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.
7856395864



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61670

Well Name & No. Desmar Teau #1 Test No. 2 Date 11-8-15
 Company TDT Inc. Elevation 2129 KB 2119 GL
 Address 1310 Bison Rd Hays KS 67601
 Co. Rep / Geo. Herb Dienes Rig Southwind #1
 Location: Sec. 31 Twp. 11^s Rge. 18^w Co. Ellis State KS

Interval Tested 3450-3475 Zone Tested LKC "D"
 Anchor Length 25 Drill Pipe Run 3433 Mud Wt. 8.8
 Top Packer Depth 3445 Drill Collars Run 0 Vis 51
 Bottom Packer Depth 3450 Wt. Pipe Run 0 WL 8
 Total Depth 3475 Chlorides 4800 ppm System LCM 2

Blow Description IF - BOB in 2 min.
ISI - Weak Surface Blow
EF - BOB in 6 min.
FSI - Surface Blow Building to 6 1/4 in. In. 16 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>137</u>	<u>Oil Speck MCW</u>		<u>95</u>	<u>5</u>	
<u>113</u>	<u>Wash WMCO</u>	<u>30</u>	<u>40</u>	<u>15</u>	<u>15</u>
<u>250</u>	<u>COO</u>	<u>100</u>			

Rec Total 500 BHT 110 Gravity 31 API RW 1.095 @ 53 °F Chlorides 125000 ppm

(A) Initial Hydrostatic 1653 Test 1050 T-On Location 15:11
 (B) First Initial Flow 38 Jars _____ T-Started 15:15
 (C) First Final Flow 89 Safety Joint _____ T-Open 16:54
 (D) Initial Shut-In 598 Circ Sub _____ T-Pulled 19:09
 (E) Second Initial Flow 98 Hourly Standby _____ T-Out 21:14
 (F) Second Final Flow 223 Mileage 31 Comments _____
 (G) Final Shut-In 570 Sampler _____
 (H) Final Hydrostatic 1659 Straddle _____ Ruined Shale Packer _____

Initial Open 15 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 30 Extra Packer _____ Extra Copies _____
 Final Flow 45 Extra Recorder _____ Sub Total 0
 Final Shut-In 45 Day Standby _____ Total 1081
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1081

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61671

Well Name & No. Desmarteau #1 Test No. 3 Date 11-9-15
 Company TDI Inc. Elevation 2129 KB 2119 GL
 Address 1310 BISON Rd HAYS KS 67601
 Co. Rep / Geo. Herb Dienes Rig Southwind #1
 Location: Sec. 31 Twp. 11^s Rge. 18^w Co. Ellis State KS

Interval Tested 3554-3615 Zone Tested LKC "I-K"
 Anchor Length 61 Drill Pipe Run 3557 Mud Wt. 9.2
 Top Packer Depth 3549 Drill Collars Run ⊗ Vis 50
 Bottom Packer Depth 3554 Wt. Pipe Run ⊗ WL 8
 Total Depth 3615 Chlorides 5700 ppm System LCM 1

Blow Description IF - Surface Blow Building to 2 1/4 in.
ISI - No Blow
FF - Surface Blow Dried in 8 min.
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>Oil Speck WCM</u>			<u>25</u>	<u>75</u>
	<u>6 inch oil cap</u>		<u>100</u>		

Rec Total 45 BHT 102 Gravity 1050 API RW 275 @ 67 °F Chlorides 26000 ppm

(A) Initial Hydrostatic	<u>1715</u>
(B) First Initial Flow	<u>20</u>
(C) First Final Flow	<u>29</u>
(D) Initial Shut-In	<u>1050</u>
(E) Second Initial Flow	<u>34</u>
(F) Second Final Flow	<u>41</u>
(G) Final Shut-In	<u>1007</u>
(H) Final Hydrostatic	<u>1656</u>
Initial Open	<u>45</u>
Initial Shut-In	<u>45</u>
Final Flow	<u>45</u>
Final Shut-In	<u>45</u>

- Test 1050
 - Jars
 - Safety Joint
 - Circ Sub
 - Hourly Standby
 - Mileage 31
 - Sampler
 - Straddle
 - Shale Packer
 - Extra Packer
 - Extra Recorder
 - Day Standby
 - Accessibility
- Sub Total 1112

T-On Location 8:45
 T-Started 11:02
 T-Open 12:45
 T-Pulled 15:45
 T-Out 17:17

Comments loaded tools 11/10 9:00

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1112
 MP/DST Disc't

Approved By _____ Our Representative [Signature]

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