



DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating Inc**

PO Box 86
Plainville KS 67663-0086

ATTN: Marc Downing

13-10-26 Sheridan,KS

Delbert Walt Trust #13-3

Start Date: 2013.10.18 @ 01:15:00

End Date: 2013.10.18 @ 07:27:00

Job Ticket #: 52263 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.10.24 @ 11:49:41

H&C Oil Operating Inc

Delbert Walt Trust #13-3

13-10-26 Sheridan,KS

DST # 1

Toronto & LKC " A "

2013.10.18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating Inc
 PO Box 86
 Plainville KS 67663-0086
 ATTN: Marc Downing

Delbert Walt Trust #13-3
13-10-26 Sheridan,KS
 Job Ticket: 52263 **DST#: 1**
 Test Start: 2013.10.18 @ 01:15:00

GENERAL INFORMATION:

Formation: **Toronto & LKC " A "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:36:15
 Time Test Ended: 07:27:00
 Interval: **3800.00 ft (KB) To 3860.00 ft (KB) (TVD)**
 Total Depth: 3860.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jim Svaty
 Unit No: 54
 Reference Elevations: 2589.00 ft (KB)
 2582.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8289 Outside

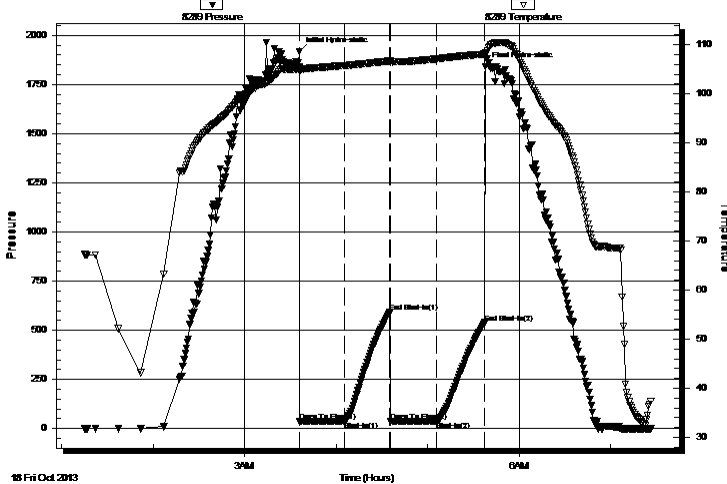
Press @ Run Depth: 38.36 psig @ 3801.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.18 End Date: 2013.10.18 Last Calib.: 2013.10.18
 Start Time: 01:15:02 End Time: 07:26:45 Time On Btm: 2013.10.18 @ 03:36:00
 Time Off Btm: 2013.10.18 @ 05:38:00

TEST COMMENT: 30-IFP- Surface Blow Building to 1"
 30-ISIP- No Blow
 30-FFP- No Blow
 30-FSIP- No Blow

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1916.79	105.43	Initial Hydro-static
1	36.60	104.63	Open To Flow (1)
30	37.83	105.73	Shut-In(1)
60	592.45	106.67	End Shut-In(1)
60	37.42	106.39	Open To Flow (2)
90	38.36	107.10	Shut-In(2)
122	539.09	108.09	End Shut-In(2)
122	1841.84	108.44	Final Hydro-static

Pressure vs. Time



Recovery

Length (ft)	Description	Volume (bbl)
40.00	Mud 100%	0.29

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating Inc
 PO Box 86
 Plainville KS 67663-0086
 ATTN: Marc Downing

Delbert Walt Trust #13-3
13-10-26 Sheridan,KS
 Job Ticket: 52263 **DST#: 1**
 Test Start: 2013.10.18 @ 01:15:00

GENERAL INFORMATION:

Formation: **Toronto & LKC " A "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:36:15

Time Test Ended: 07:27:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 54

Interval: **3800.00 ft (KB) To 3860.00 ft (KB) (TVD)**

Total Depth: 3860.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2589.00 ft (KB)

2582.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8789

Inside

Press @ Run Depth: psig @ 3801.00 ft (KB)

Start Date: 2013.10.18

End Date: 2013.10.18

Capacity: 8000.00 psig

Last Calib.: 2013.10.18

Start Time: 01:15:02

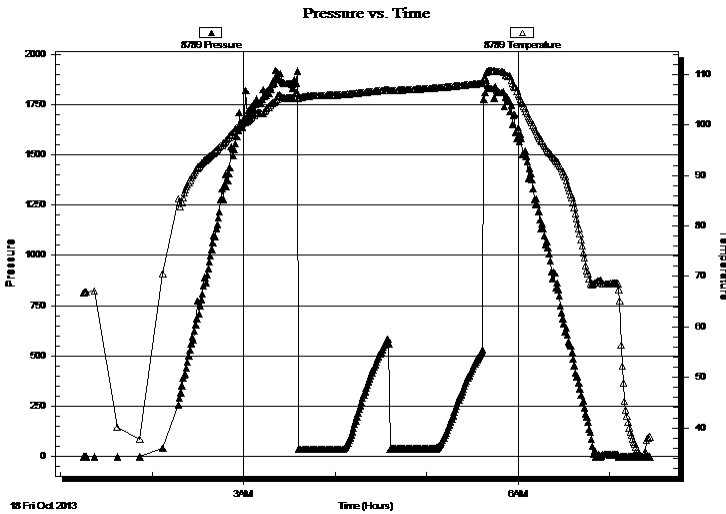
End Time: 07:26:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IFP- Surface Blow Building to 1"
 30-ISIP- No Blow
 30-FFP- No Blow
 30-FSIP- No Blow

PRESSURE SUMMARY



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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
40.00	Mud 100%	0.29

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc
 PO Box 86
 Plainville KS 67663-0086
 ATTN: Marc Downing

Delbert Walt Trust #13-3
13-10-26 Sheridan,KS
 Job Ticket: 52263 **DST#: 1**
 Test Start: 2013.10.18 @ 01:15:00

Tool Information

Drill Pipe:	Length: 3765.00 ft	Diameter: 3.80 inches	Volume: 52.81 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 52.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	3800.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	88.00 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			3773.00	
Shut In Tool	5.00			3778.00	
Hydraulic tool	5.00			3783.00	
Jars	5.00			3788.00	
Safety Joint	2.00			3790.00	
Packer	5.00			3795.00	28.00 Bottom Of Top Packer
Packer	5.00			3800.00	
Stubb	1.00			3801.00	
Recorder	0.00	8789	Inside	3801.00	
Recorder	0.00	8289	Outside	3801.00	
Perforations	23.00			3824.00	
Change Over Sub	1.00			3825.00	
Blank Spacing	31.00			3856.00	
Change Over Sub	1.00			3857.00	
Bullnose	3.00			3860.00	60.00 Bottom Packers & Anchor

Total Tool Length: 88.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Marc Downing

Delbert Walt Trust #13-3
13-10-26 Sheridan,KS
Job Ticket: 52263 **DST#: 1**
Test Start: 2013.10.18 @ 01:15:00

Mud and Cushion Information

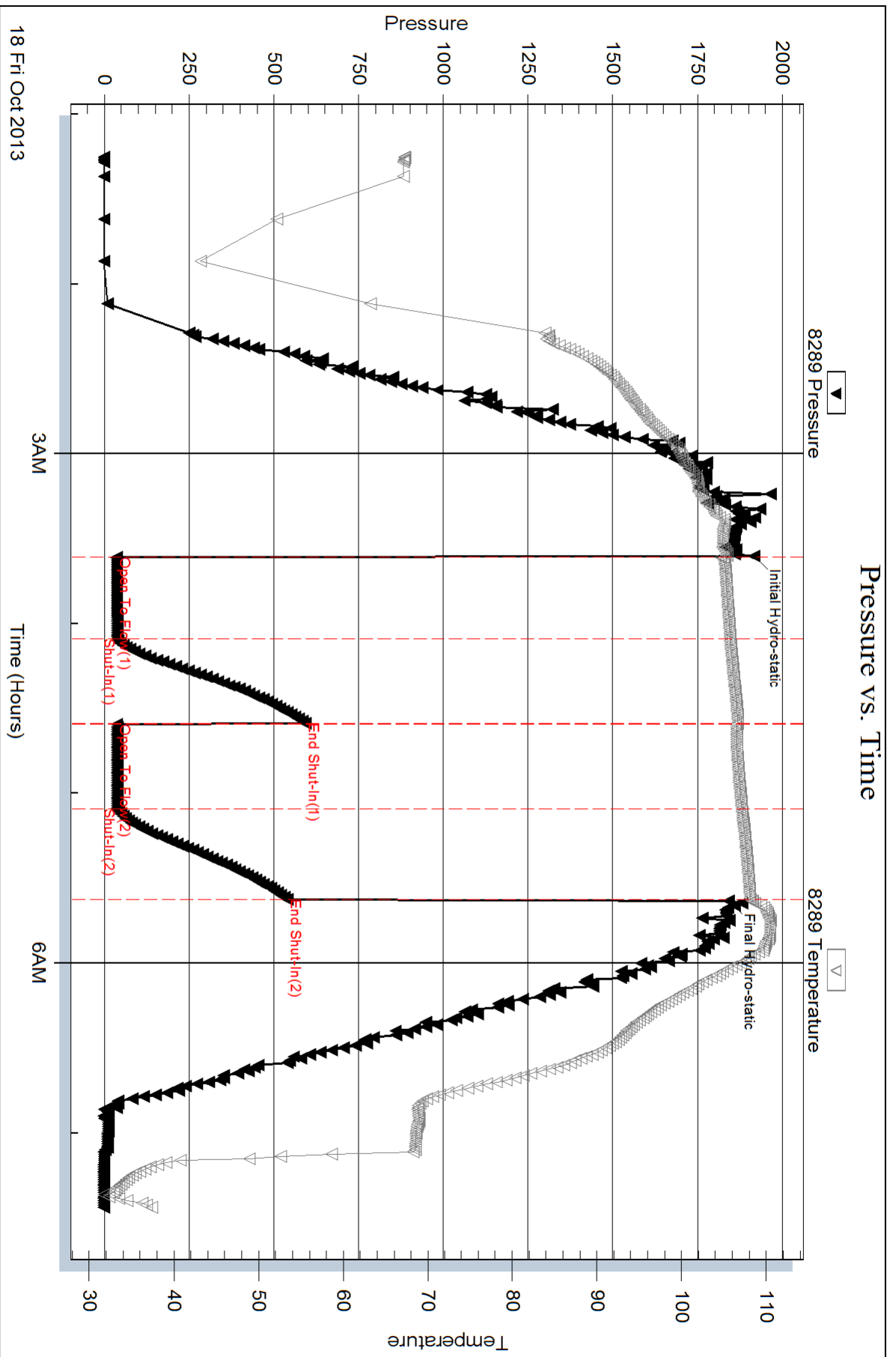
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.13 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: 2.00 inches			

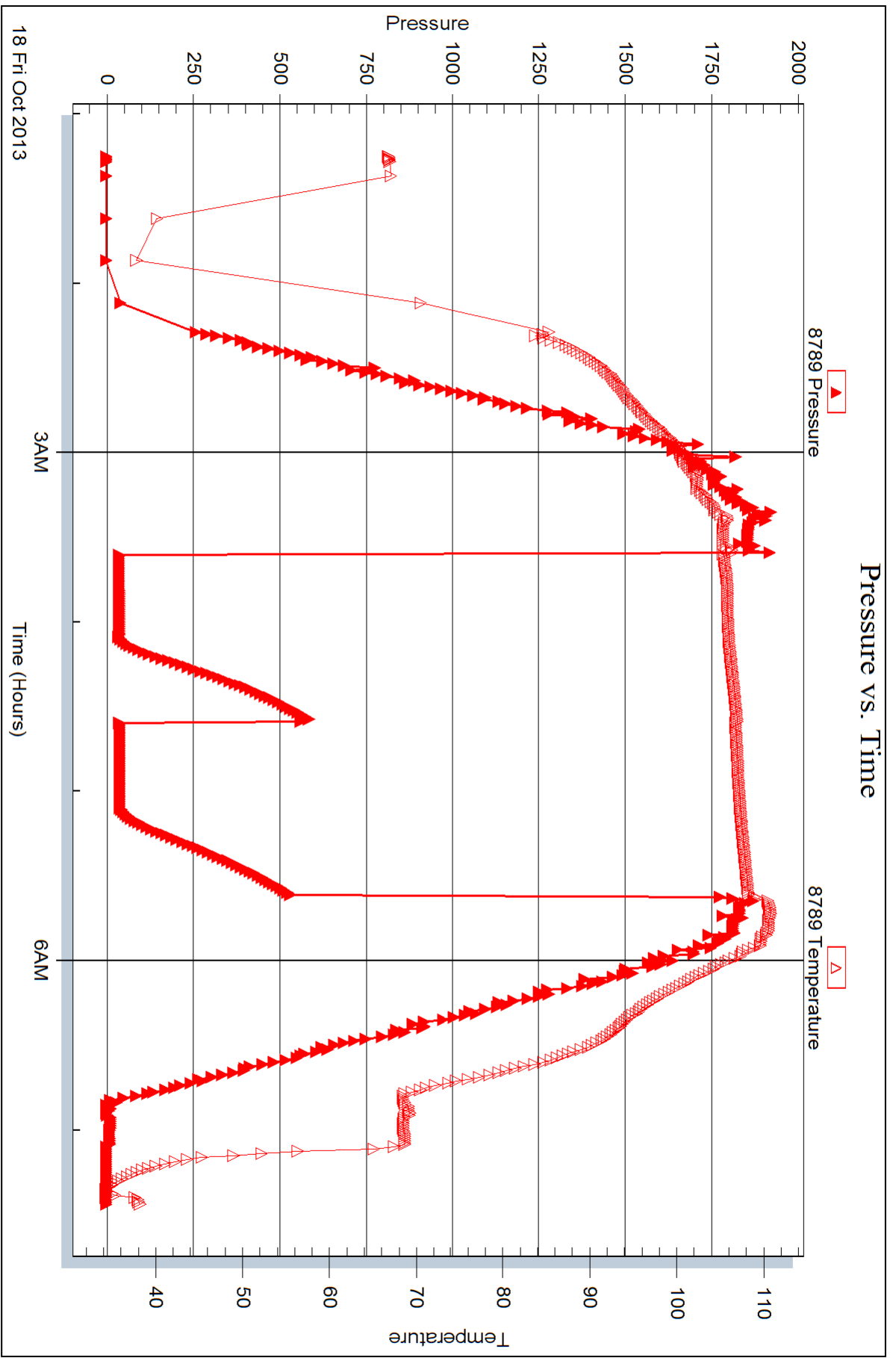
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Mud 100%	0.288

Total Length: 40.00 ft Total Volume: 0.288 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating Inc**

PO Box 86
Plainville KS 67663-0086

ATTN: Marc Downing

13-10-26 Sheridan,KS

Delbert Walt Trust #13-3

Start Date: 2013.10.18 @ 16:50:00

End Date: 2013.10.18 @ 22:17:00

Job Ticket #: 52264 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.10.24 @ 11:49:17

H&C Oil Operating Inc

Delbert Walt Trust #13-3

13-10-26 Sheridan,KS

DST # 2

LKC " C & D "

2013.10.18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating Inc
 PO Box 86
 Plainville KS 67663-0086
 ATTN: Marc Downing

Delbert Walt Trust #13-3
13-10-26 Sheridan,KS
 Job Ticket: 52264 **DST#: 2**
 Test Start: 2013.10.18 @ 16:50:00

GENERAL INFORMATION:

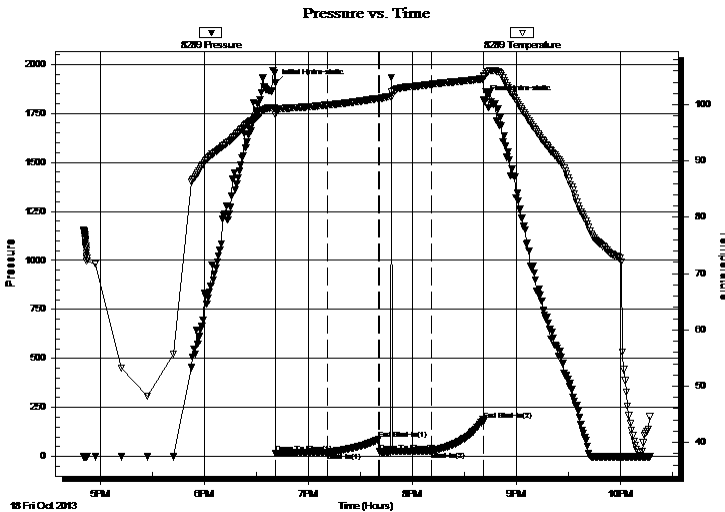
Formation: **LKC " C & D "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:41:00
 Time Test Ended: 22:17:00
 Interval: **3853.00 ft (KB) To 3900.00 ft (KB) (TVD)**
 Total Depth: 3900.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 54
 Reference Elevations: 2589.00 ft (KB)
 2582.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8289 Outside

Press @ Run Depth: 28.72 psig @ 3854.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.18 End Date: 2013.10.18 Last Calib.: 2013.10.18
 Start Time: 16:50:02 End Time: 22:17:00 Time On Btm: 2013.10.18 @ 18:40:45
 Time Off Btm: 2013.10.18 @ 20:41:15

TEST COMMENT: 30-IFP- No Blow Good Surge on Open
 30-ISIP- No Blow
 30-FFP- No Blow Flushed - No Blow
 30-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1903.23	99.30	Initial Hydro-static
1	16.19	98.25	Open To Flow (1)
31	22.06	99.93	Shut-In(1)
60	86.77	101.11	End Shut-In(1)
60	23.71	101.06	Open To Flow (2)
91	28.72	103.61	Shut-In(2)
120	187.21	104.58	End Shut-In(2)
121	1820.67	105.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
7.00	Mud 100%	0.03

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating Inc
 PO Box 86
 Plainville KS 67663-0086
 ATTN: Marc Downing

Delbert Walt Trust #13-3
13-10-26 Sheridan,KS
 Job Ticket: 52264 **DST#: 2**
 Test Start: 2013.10.18 @ 16:50:00

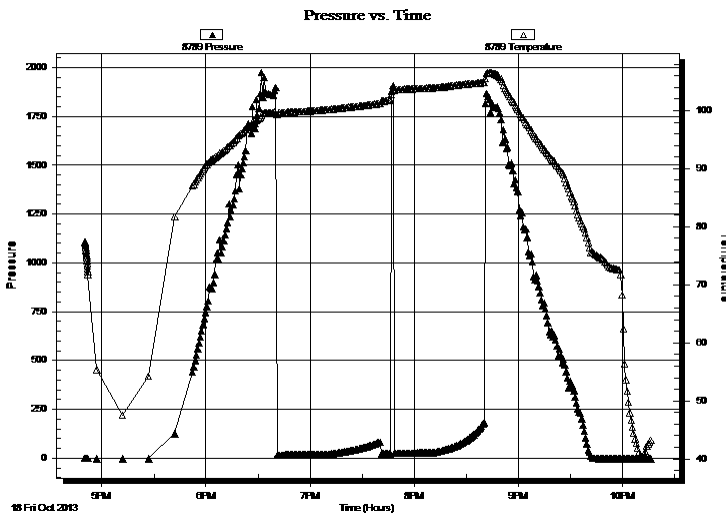
GENERAL INFORMATION:

Formation: **LKC " C & D "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:41:00
 Time Test Ended: 22:17:00
 Interval: **3853.00 ft (KB) To 3900.00 ft (KB) (TVD)**
 Total Depth: 3900.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 54
 Reference Elevations: 2589.00 ft (KB)
 2582.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8789 **Inside**
 Press @ RunDepth: psig @ 3854.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.18 End Date: 2013.10.18 Last Calib.: 2013.10.18
 Start Time: 16:50:02 End Time: 22:16:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IFP- No Blow Good Surge on Open
 30-ISIP- No Blow
 30-FFP- No Blow Flushed - No Blow
 30-FSIP- No Blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
7.00	Mud 100%	0.03

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Marc Downing

Delbert Walt Trust #13-3
13-10-26 Sheridan,KS
Job Ticket: 52264 **DST#: 2**
Test Start: 2013.10.18 @ 16:50:00

Tool Information

Drill Pipe:	Length: 3802.00 ft	Diameter: 3.80 inches	Volume: 53.33 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 53.48 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	3853.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	75.00 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			3826.00	
Shut In Tool	5.00			3831.00	
Hydraulic tool	5.00			3836.00	
Jars	5.00			3841.00	
Safety Joint	2.00			3843.00	
Packer	5.00			3848.00	28.00 Bottom Of Top Packer
Packer	5.00			3853.00	
Stubb	1.00			3854.00	
Recorder	0.00	8789	Inside	3854.00	
Recorder	0.00	8289	Outside	3854.00	
Perforations	10.00			3864.00	
Change Over Sub	1.00			3865.00	
Blank Spacing	31.00			3896.00	
Change Over Sub	1.00			3897.00	
Bullnose	3.00			3900.00	47.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc
 PO Box 86
 Plainville KS 67663-0086
 ATTN: Marc Downing

Delbert Walt Trust #13-3
13-10-26 Sheridan,KS
 Job Ticket: 52264 **DST#: 2**
 Test Start: 2013.10.18 @ 16:50:00

Mud and Cushion Information

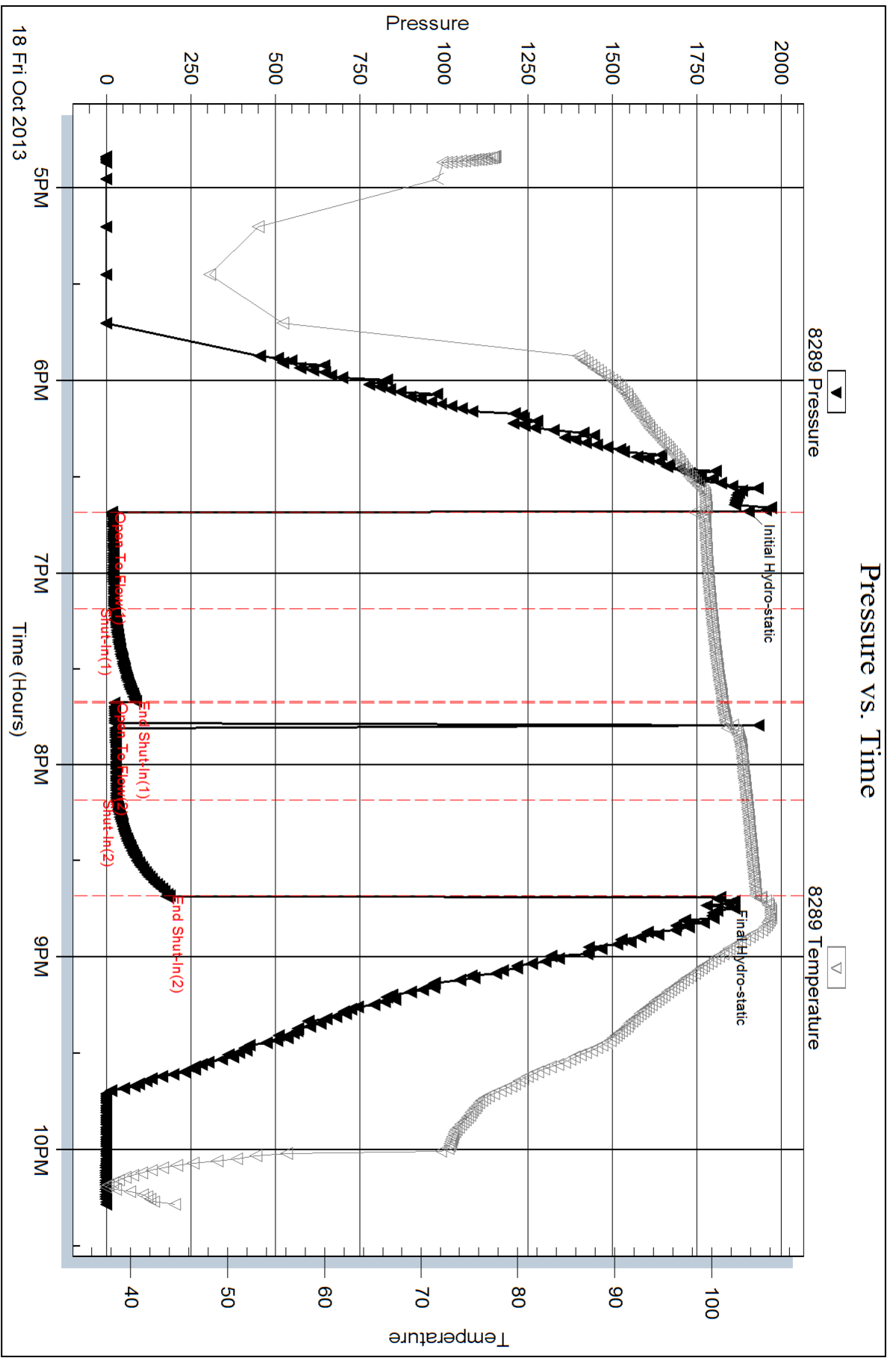
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.36 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
7.00	Mud 100%	0.034

Total Length: 7.00 ft Total Volume: 0.034 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



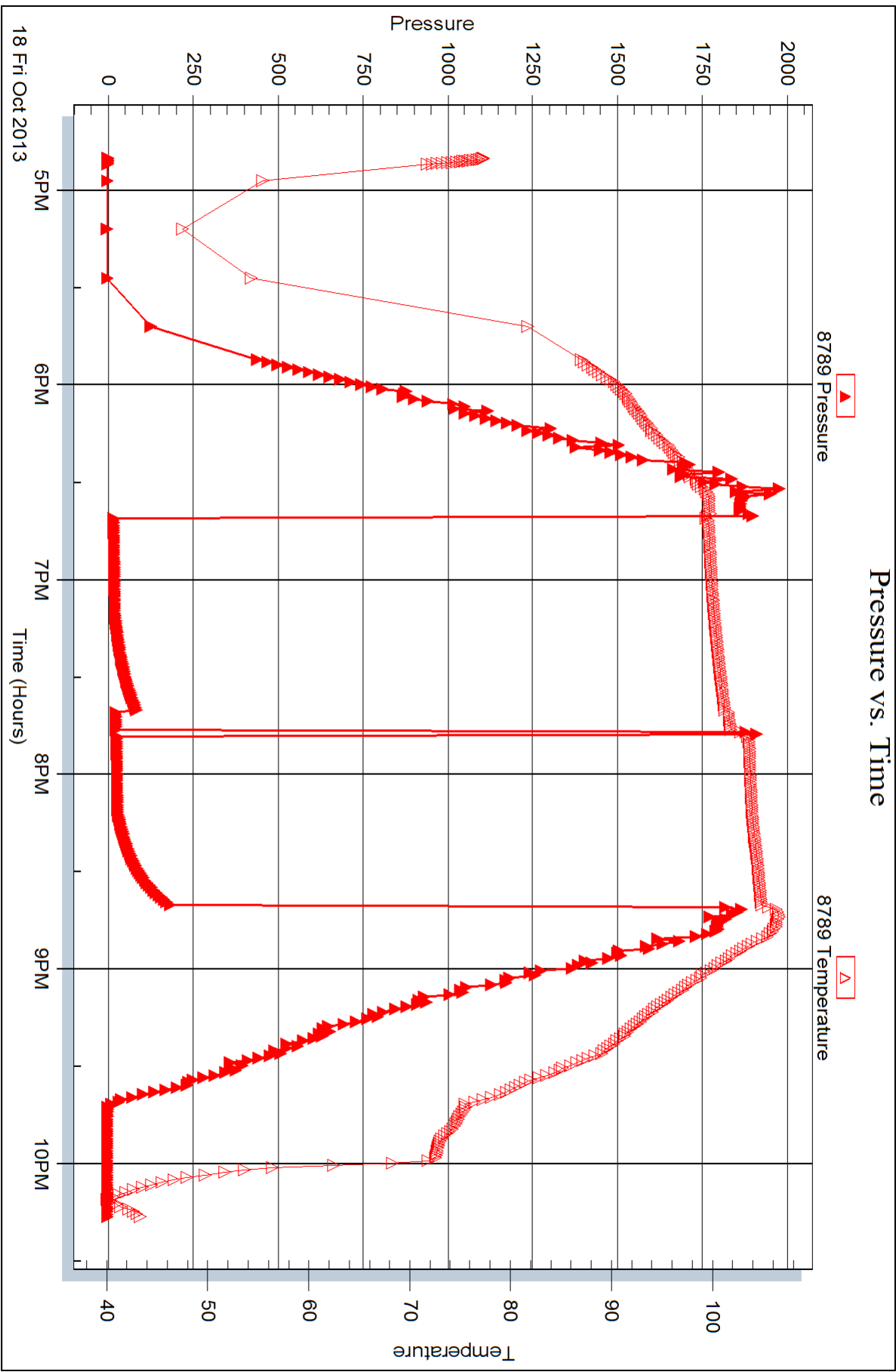
Serial #: 8789

Inside

H&C Oil Operating Inc

13-10-26 Sheridan, KS

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating Inc**

PO Box 86
Plainville KS 67663-0086

ATTN: Marc Downing

13-10-26 Sheridan,KS

Delbert Walt Trust #13-3

Start Date: 2013.10.19 @ 05:15:00

End Date: 2013.10.19 @ 11:19:00

Job Ticket #: 52265 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.10.24 @ 11:48:51

H&C Oil Operating Inc

Delbert Walt Trust #13-3

13-10-26 Sheridan,KS

DST # 3

LKC " E & F "

2013.10.19



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating Inc
 PO Box 86
 Plainville KS 67663-0086
 ATTN: Marc Downing

Delbert Walt Trust #13-3
13-10-26 Sheridan,KS
 Job Ticket: 52265 **DST#: 3**
 Test Start: 2013.10.19 @ 05:15:00

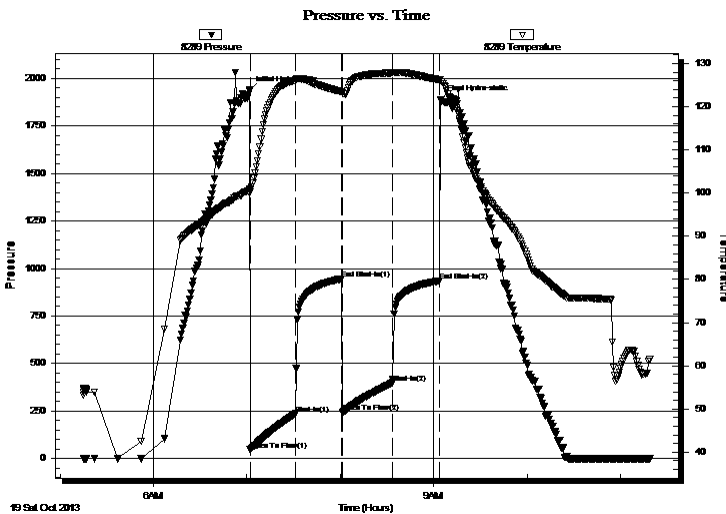
GENERAL INFORMATION:

Formation: **LKC " E & F "**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 07:02:00 Tester: Jim Svaty
 Time Test Ended: 11:19:00 Unit No: 54
 Interval: **3899.00 ft (KB) To 3923.00 ft (KB) (TVD)** Reference Elevations: 2589.00 ft (KB)
 Total Depth: 3923.00 ft (KB) (TVD) 2582.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8289 Outside
 Press @ RunDepth: 398.95 psig @ 3900.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.19 End Date: 2013.10.19 Last Calib.: 2013.10.19
 Start Time: 05:15:02 End Time: 11:18:45 Time On Btm: 2013.10.19 @ 07:01:45
 Time Off Btm: 2013.10.19 @ 09:04:30

TEST COMMENT: 30-IFP- BOB in 6 min.
 30-ISIP- No Blow
 30-FFP- BOB in 7 min.
 30-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1938.04	100.88	Initial Hydro-static
1	45.35	100.34	Open To Flow (1)
30	235.29	126.17	Shut-In(1)
60	945.33	123.45	End Shut-In(1)
60	243.11	123.18	Open To Flow (2)
92	398.95	127.83	Shut-In(2)
122	935.20	126.19	End Shut-In(2)
123	1890.08	126.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
500.00	MCW 5%M 95%w	6.74
306.00	MCW 30%M 70%w Show of Oil	4.29

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating Inc
 PO Box 86
 Plainville KS 67663-0086
 ATTN: Marc Downing

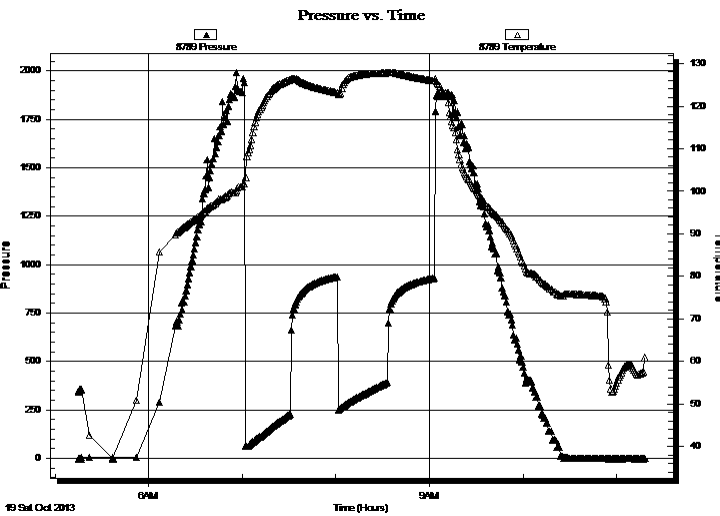
Delbert Walt Trust #13-3
13-10-26 Sheridan,KS
 Job Ticket: 52265 **DST#: 3**
 Test Start: 2013.10.19 @ 05:15:00

GENERAL INFORMATION:

Formation: **LKC " E & F "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:02:00
 Time Test Ended: 11:19:00
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 54
 Interval: **3899.00 ft (KB) To 3923.00 ft (KB) (TVD)**
 Total Depth: 3923.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Reference Elevations: 2589.00 ft (KB)
 2582.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8789 Inside
 Press @ RunDepth: psig @ 3900.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.19 End Date: 2013.10.19 Last Calib.: 2013.10.19
 Start Time: 05:15:02 End Time: 11:18:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IFP- BOB in 6 min.
 30-ISIP- No Blow
 30-FFP- BOB in 7 min.
 30-FSIP- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
500.00	MCW 5%M 95%w	6.74
306.00	MCW 30%M 70%w Show of Oil	4.29

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Marc Downing

Delbert Walt Trust #13-3
13-10-26 Sheridan,KS
Job Ticket: 52265 **DST#: 3**
Test Start: 2013.10.19 @ 05:15:00

Tool Information

Drill Pipe:	Length: 3864.00 ft	Diameter: 3.80 inches	Volume: 54.20 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 54.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	3899.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	52.00 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			3872.00	
Shut In Tool	5.00			3877.00	
Hydraulic tool	5.00			3882.00	
Jars	5.00			3887.00	
Safety Joint	2.00			3889.00	
Packer	5.00			3894.00	28.00 Bottom Of Top Packer
Packer	5.00			3899.00	
Stubb	1.00			3900.00	
Recorder	0.00	8789	Inside	3900.00	
Recorder	0.00	8289	Outside	3900.00	
Perforations	20.00			3920.00	
Bullnose	3.00			3923.00	24.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Marc Downing

Delbert Walt Trust #13-3
13-10-26 Sheridan,KS
Job Ticket: 52265 **DST#: 3**
Test Start: 2013.10.19 @ 05:15:00

Mud and Cushion Information

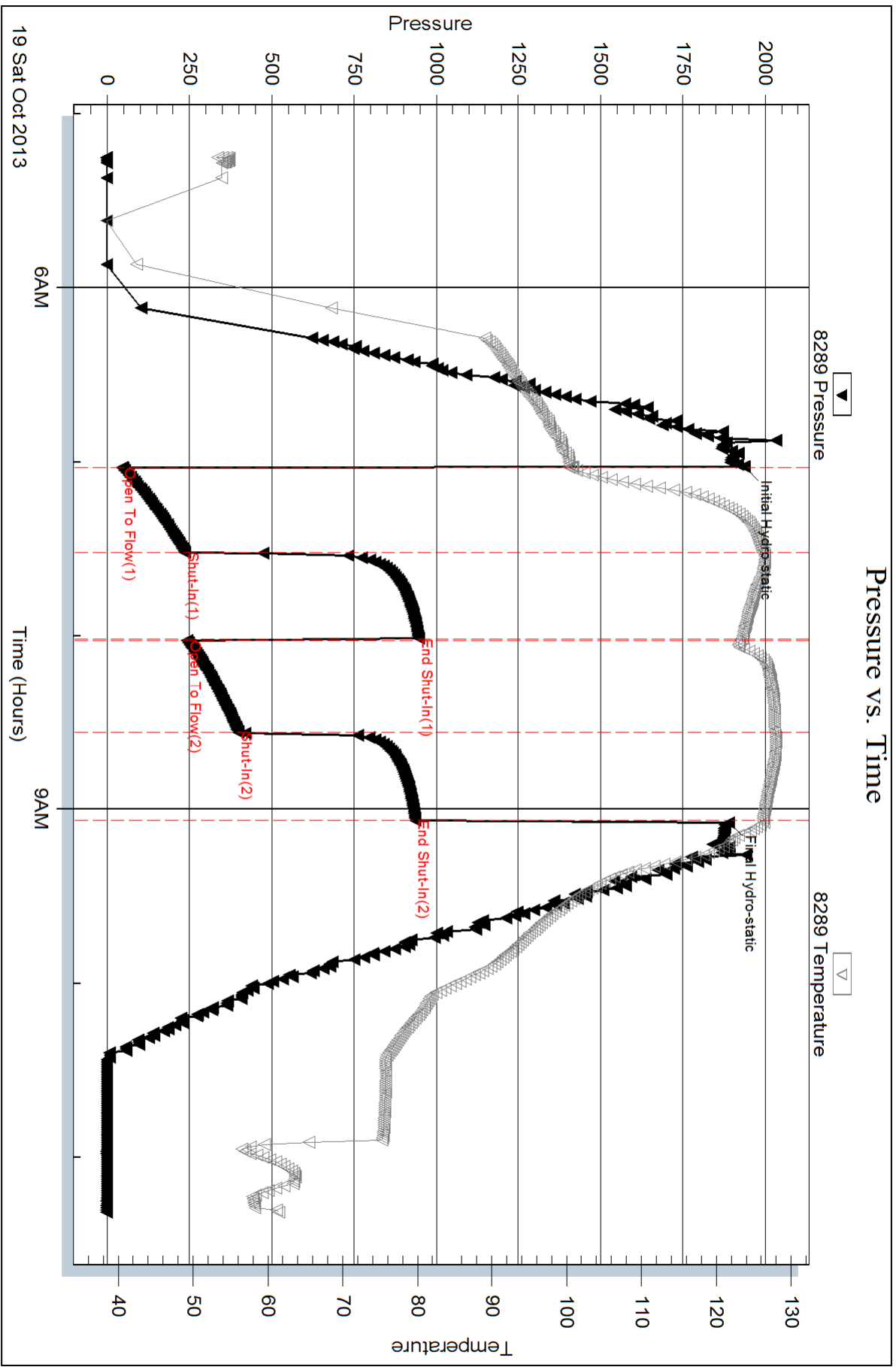
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	60000 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.37 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
500.00	MCW 5%M 95%w	6.740
306.00	MCW 30%M 70%w Show of Oil	4.292

Total Length: 806.00 ft Total Volume: 11.032 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: .180 @ 50



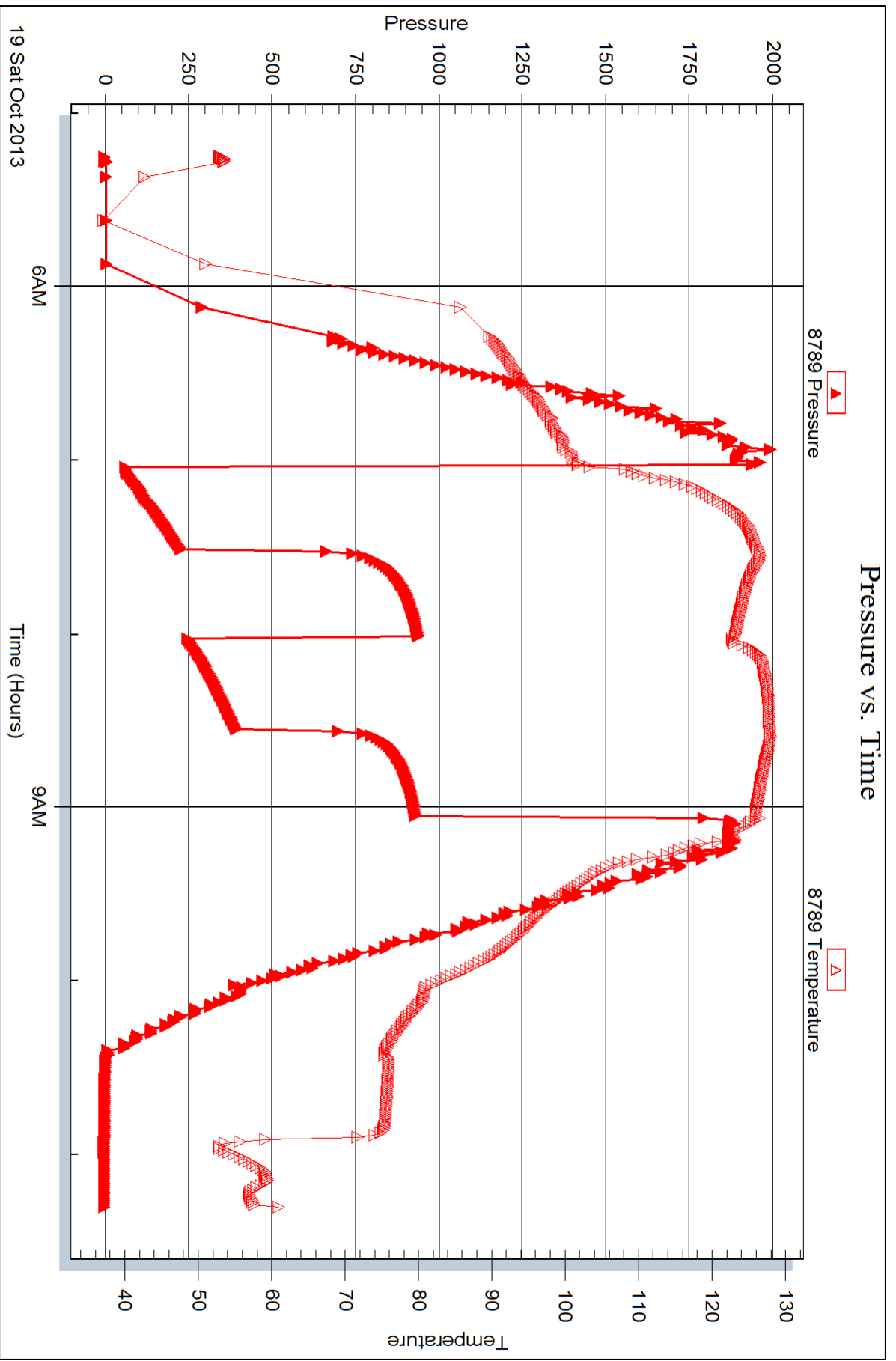
Serial #: 8789

Inside

H&C Oil Operating Inc

13-10-26 Sheridan, KS

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating Inc**

PO Box 86
Plainville KS 67663-0086

ATTN: Marc Downing

13-10-26 Sheridan,KS

Delbert Walt Trust #13-3

Start Date: 2013.10.19 @ 22:30:00

End Date: 2013.10.20 @ 05:36:00

Job Ticket #: 52266 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.10.24 @ 11:48:29

H&C Oil Operating Inc

Delbert Walt Trust #13-3

13-10-26 Sheridan,KS

DST # 4

LKC " H & I "

2013.10.19



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Marc Downing

Delbert Walt Trust #13-3
13-10-26 Sheridan,KS
Job Ticket: 52266 **DST#: 4**
Test Start: 2013.10.19 @ 22:30:00

GENERAL INFORMATION:

Formation: **LKC " H & I "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:24:00
Time Test Ended: 05:36:00
Interval: **3958.00 ft (KB) To 4008.00 ft (KB) (TVD)**
Total Depth: 4008.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 54
Reference Elevations: 2589.00 ft (KB)
2582.00 ft (CF)
KB to GR/CF: 7.00 ft

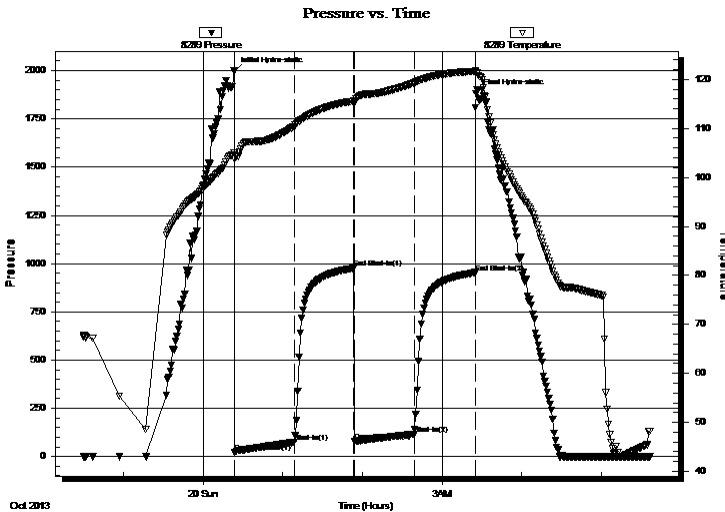
Serial #: 8289

Outside

Press @RunDepth: 116.05 psig @ 3959.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.10.19 End Date: 2013.10.20 Last Calib.: 2013.10.20
Start Time: 22:30:02 End Time: 05:36:15 Time On Btm: 2013.10.20 @ 00:23:45
Time Off Btm: 2013.10.20 @ 03:25:30

TEST COMMENT: 45-IFP- BOB in 29 min.
45-ISIP- No Blow
45-FFP- BOB in 34 min.
45-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1996.87	104.91	Initial Hydro-static
1	21.59	103.77	Open To Flow (1)
45	75.00	110.46	Shut-In(1)
90	975.83	115.57	End Shut-In(1)
91	79.52	115.21	Open To Flow (2)
135	116.05	119.21	Shut-In(2)
181	953.40	121.59	End Shut-In(2)
182	1879.90	121.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	OMCW 5%o 40%w 55%w	1.47
62.00	OWCM 10%o 40%w 50%m	0.87
30.00	OWCM 30%o 30%w 40%m	0.42
1.00	CO 100%	0.01
0.00	90 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating Inc
 PO Box 86
 Plainville KS 67663-0086
 ATTN: Marc Downing

Delbert Walt Trust #13-3
13-10-26 Sheridan,KS
 Job Ticket: 52266 **DST#: 4**
 Test Start: 2013.10.19 @ 22:30:00

GENERAL INFORMATION:

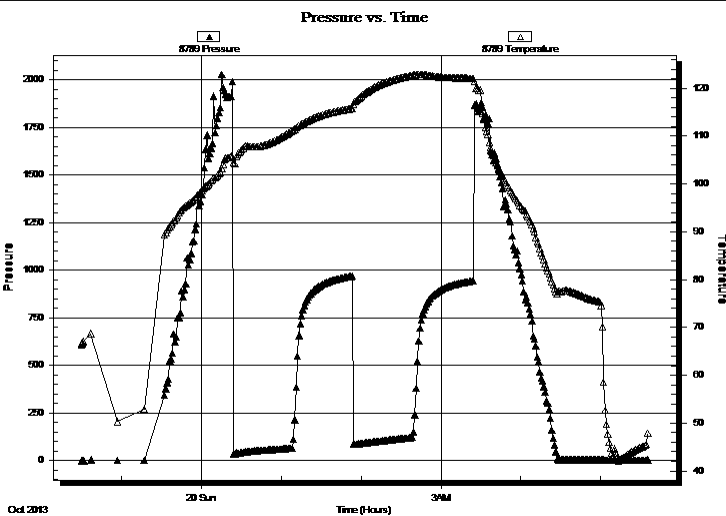
Formation: **LKC " H & I "**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 00:24:00
 Tester: Jim Svaty
 Time Test Ended: 05:36:00
 Unit No: 54
Interval: 3958.00 ft (KB) To 4008.00 ft (KB) (TVD)
 Reference Elevations: 2589.00 ft (KB)
 Total Depth: 4008.00 ft (KB) (TVD) 2582.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Poor
 KB to GR/CF: 7.00 ft

Serial #: 8789

Inside

Press @ Run Depth: psig @ 3959.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2013.10.19 End Date: 2013.10.20 Last Calib.: 2013.10.20
 Start Time: 22:30:02 End Time: 05:36:00
 Time On Btm: Time Off Btm:

TEST COMMENT: 45-IFP- BOB in 29 min.
 45-ISIP- No Blow
 45-FFP- BOB in 34 min.
 45-FSIP- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
124.00	OMCW 5%o 40%m 55%w	1.47
62.00	OWCM 10%o 40%w 50%m	0.87
30.00	OWCM 30%o 30%w 40%m	0.42
1.00	CO 100%	0.01
0.00	90 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

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Marc Downing

Delbert Walt Trust #13-3
13-10-26 Sheridan,KS
Job Ticket: 52266 **DST#: 4**
Test Start: 2013.10.19 @ 22:30:00

Tool Information

Drill Pipe:	Length: 3927.00 ft	Diameter: 3.80 inches	Volume: 55.09 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 55.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3958.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	78.00 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			3931.00	
Shut In Tool	5.00			3936.00	
Hydraulic tool	5.00			3941.00	
Jars	5.00			3946.00	
Safety Joint	2.00			3948.00	
Packer	5.00			3953.00	28.00 Bottom Of Top Packer
Packer	5.00			3958.00	
Stubb	1.00			3959.00	
Recorder	0.00	8789	Inside	3959.00	
Recorder	0.00	8289	Outside	3959.00	
Perforations	13.00			3972.00	
Change Over Sub	1.00			3973.00	
Blank Spacing	31.00			4004.00	
Change Over Sub	1.00			4005.00	
Bullnose	3.00			4008.00	50.00 Bottom Packers & Anchor

Total Tool Length: 78.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Marc Downing

Delbert Walt Trust #13-3
13-10-26 Sheridan,KS
Job Ticket: 52266 **DST#: 4**
Test Start: 2013.10.19 @ 22:30:00

Mud and Cushion Information

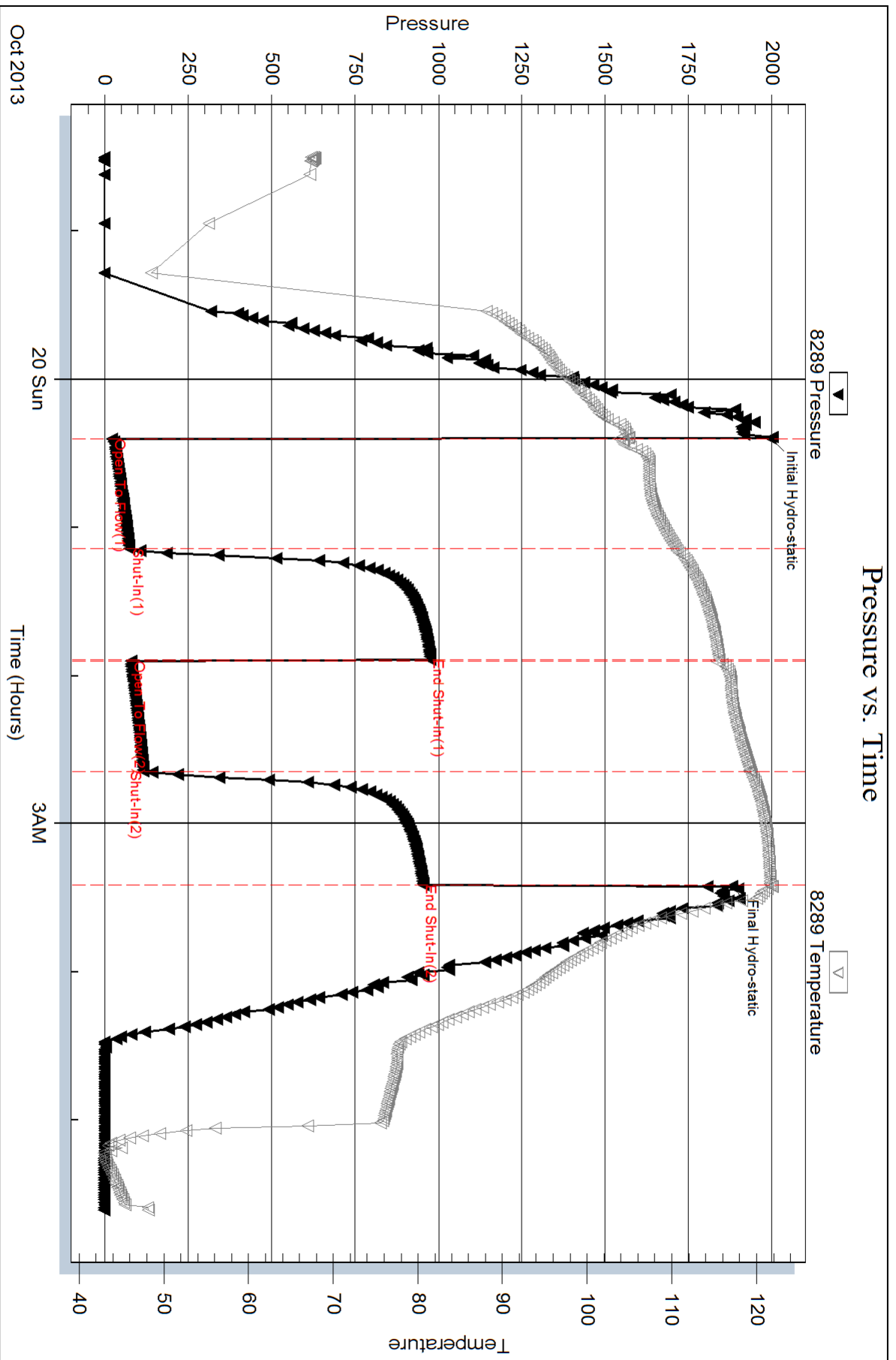
Mud Type: Gel Chem	Cushion Type:	Oil API: 34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 57000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 5.77 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1200.00 ppm		
Filter Cake: 2.00 inches		

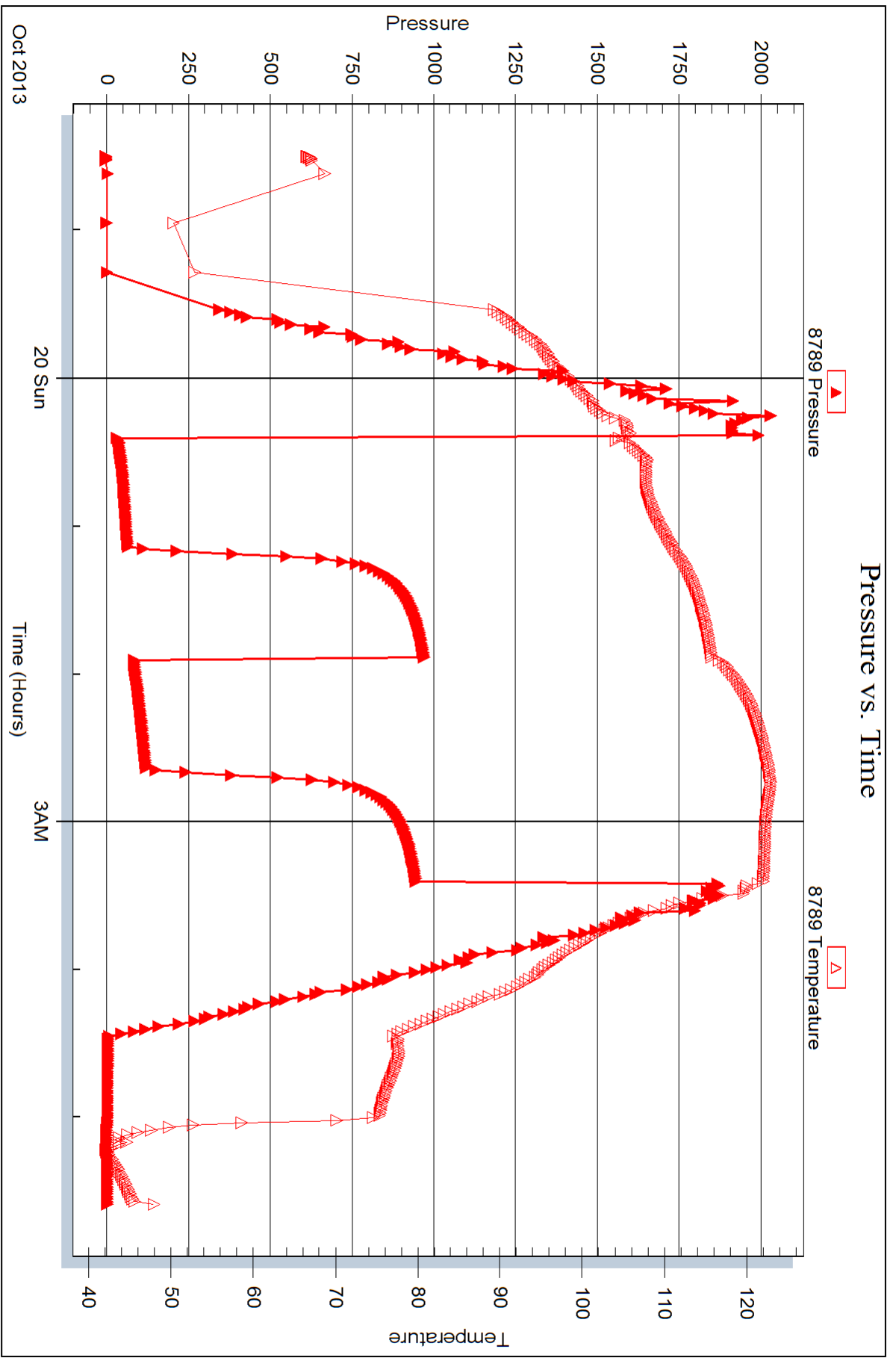
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	OMCW 5%o 40%m 55%w	1.466
62.00	OWCM 10%o 40%w 50%m	0.870
30.00	OWCM 30%o 30%w 40%m	0.421
1.00	CO 100%	0.014
0.00	90 GIP	0.000

Total Length: 217.00 ft Total Volume: 2.771 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: .250 @ 38







DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating Inc**

PO Box 86
Plainville KS 67663-0086

ATTN: Marc Downing

13-10-26 Sheridan,KS

Delbert Walt Trust #13-3

Start Date: 2013.10.20 @ 13:14:00

End Date: 2013.10.20 @ 20:07:00

Job Ticket #: 52267 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.10.24 @ 11:48:04

H&C Oil Operating Inc

Delbert Walt Trust #13-3

13-10-26 Sheridan,KS

DST # 5

LKC " J "

2013.10.20



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating Inc
 PO Box 86
 Plainville KS 67663-0086
 ATTN: Marc Downing

Delbert Walt Trust #13-3
13-10-26 Sheridan,KS
 Job Ticket: 52267 **DST#: 5**
 Test Start: 2013.10.20 @ 13:14:00

GENERAL INFORMATION:

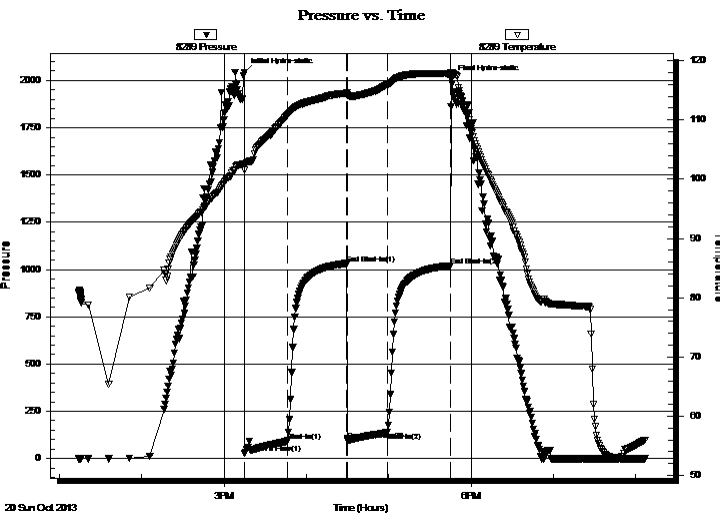
Formation: **LKC " J "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:15:00
 Time Test Ended: 20:07:00
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 54
 Interval: **3985.00 ft (KB) To 4032.00 ft (KB) (TVD)**
 Reference Elevations: 2589.00 ft (KB)
 Total Depth: 4032.00 ft (KB) (TVD) 2582.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 7.00 ft

Serial #: 8289

Outside

Press @ RunDepth: 137.65 psig @ 3986.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.20 End Date: 2013.10.20 Last Calib.: 2013.10.20
 Start Time: 13:14:02 End Time: 20:07:00 Time On Btm: 2013.10.20 @ 15:14:45
 Time Off Btm: 2013.10.20 @ 17:45:45

TEST COMMENT: 30-IFP- BOB in 7 1/2 min.
 45-ISIP- Surface Blow Died in 20 min.
 30-FFP- BOB in 8 min.
 45-FSIP- Surface Blow Building to 1 1/2" in 5 min. Died Back in 15 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2042.81	102.61	Initial Hydro-static
1	26.66	101.50	Open To Flow (1)
32	90.56	110.73	Shut-In(1)
75	1032.27	114.53	End Shut-In(1)
76	96.53	114.18	Open To Flow (2)
105	137.65	115.97	Shut-In(2)
151	1020.84	117.73	End Shut-In(2)
151	2003.99	118.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GWMCO 15%g 25%w 25%m 35%o	1.47
124.00	GWMCO 20%g 10%w 30%m 40%o	1.74
30.00	MCO 10%m 90%o	0.42
0.00	GIP 650	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating Inc
 PO Box 86
 Plainville KS 67663-0086
 ATTN: Marc Downing

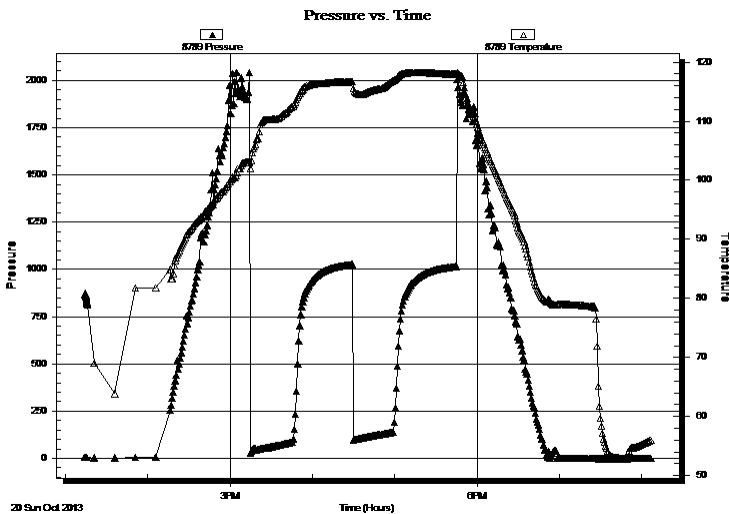
Delbert Walt Trust #13-3
13-10-26 Sheridan,KS
 Job Ticket: 52267 **DST#: 5**
 Test Start: 2013.10.20 @ 13:14:00

GENERAL INFORMATION:

Formation: **LKC " J "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:15:00
 Time Test Ended: 20:07:00
 Interval: **3985.00 ft (KB) To 4032.00 ft (KB) (TVD)**
 Total Depth: 4032.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 54
 Reference Elevations: 2589.00 ft (KB)
 2582.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8789 **Inside**
 Press @ Run Depth: psig @ 3986.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.20 End Date: 2013.10.20 Last Calib.: 2013.10.20
 Start Time: 13:14:02 End Time: 20:06:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IFP- BOB in 7 1/2 min.
 45-ISIP- Surface Blow Died in 20 min.
 30-FFP- BOB in 8 min.
 45-FSIP- Surface Blow Building to 1 1/2" in 5 min. Died Back in 15 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GWMCO 15%g 25%w 25%m 35%o	1.47
124.00	GWMCO 20%g 10%w 30%m 40%o	1.74
30.00	MCO 10%m 90%o	0.42
0.00	GIP 650	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

H&C Oil Operating Inc
 PO Box 86
 Plainville KS 67663-0086
 ATTN: Marc Downing

Delbert Walt Trust #13-3
13-10-26 Sheridan,KS
 Job Ticket: 52267 **DST#: 5**
 Test Start: 2013.10.20 @ 13:14:00

Tool Information

Drill Pipe:	Length: 3958.00 ft	Diameter: 3.80 inches	Volume: 55.52 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 55.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3985.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	75.00 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			3958.00	
Shut In Tool	5.00			3963.00	
Hydraulic tool	5.00			3968.00	
Jars	5.00			3973.00	
Safety Joint	2.00			3975.00	
Packer	5.00			3980.00	28.00 Bottom Of Top Packer
Packer	5.00			3985.00	
Stubb	1.00			3986.00	
Recorder	0.00	8789	Inside	3986.00	
Recorder	0.00	8289	Outside	3986.00	
Perforations	10.00			3996.00	
Change Over Sub	1.00			3997.00	
Blank Spacing	31.00			4028.00	
Change Over Sub	1.00			4029.00	
Bullnose	3.00			4032.00	47.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Marc Downing

Delbert Walt Trust #13-3
13-10-26 Sheridan,KS
Job Ticket: 52267 **DST#: 5**
Test Start: 2013.10.20 @ 13:14:00

Mud and Cushion Information

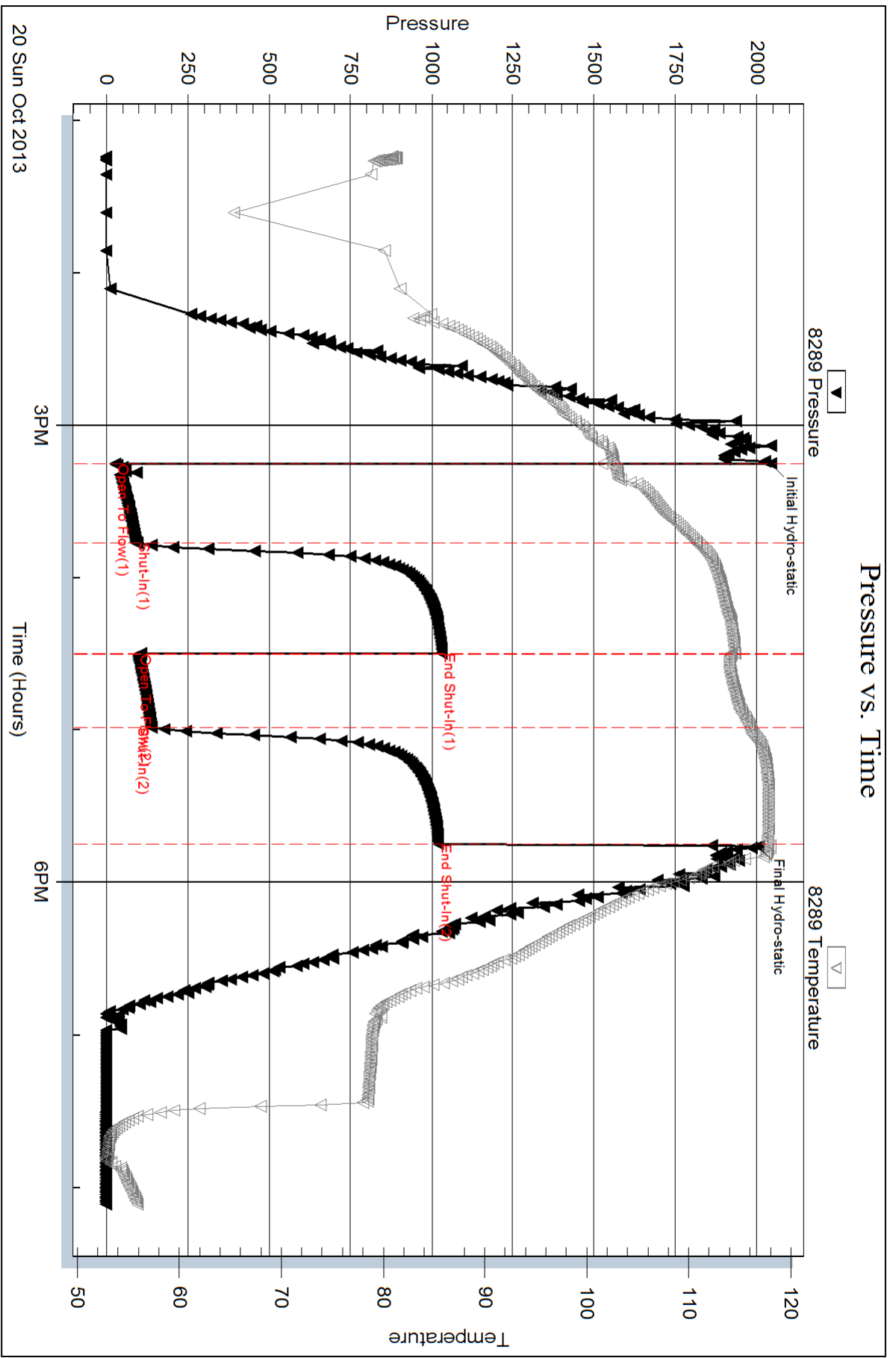
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1300.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	GWMCO 15%g 25%w 25%m 35%o	1.466
124.00	GWMCO 20%g 10%w 30%m 40%o	1.739
30.00	MCO 10%m 90%o	0.421
0.00	GIP 650	0.000

Total Length: 278.00 ft Total Volume: 3.626 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



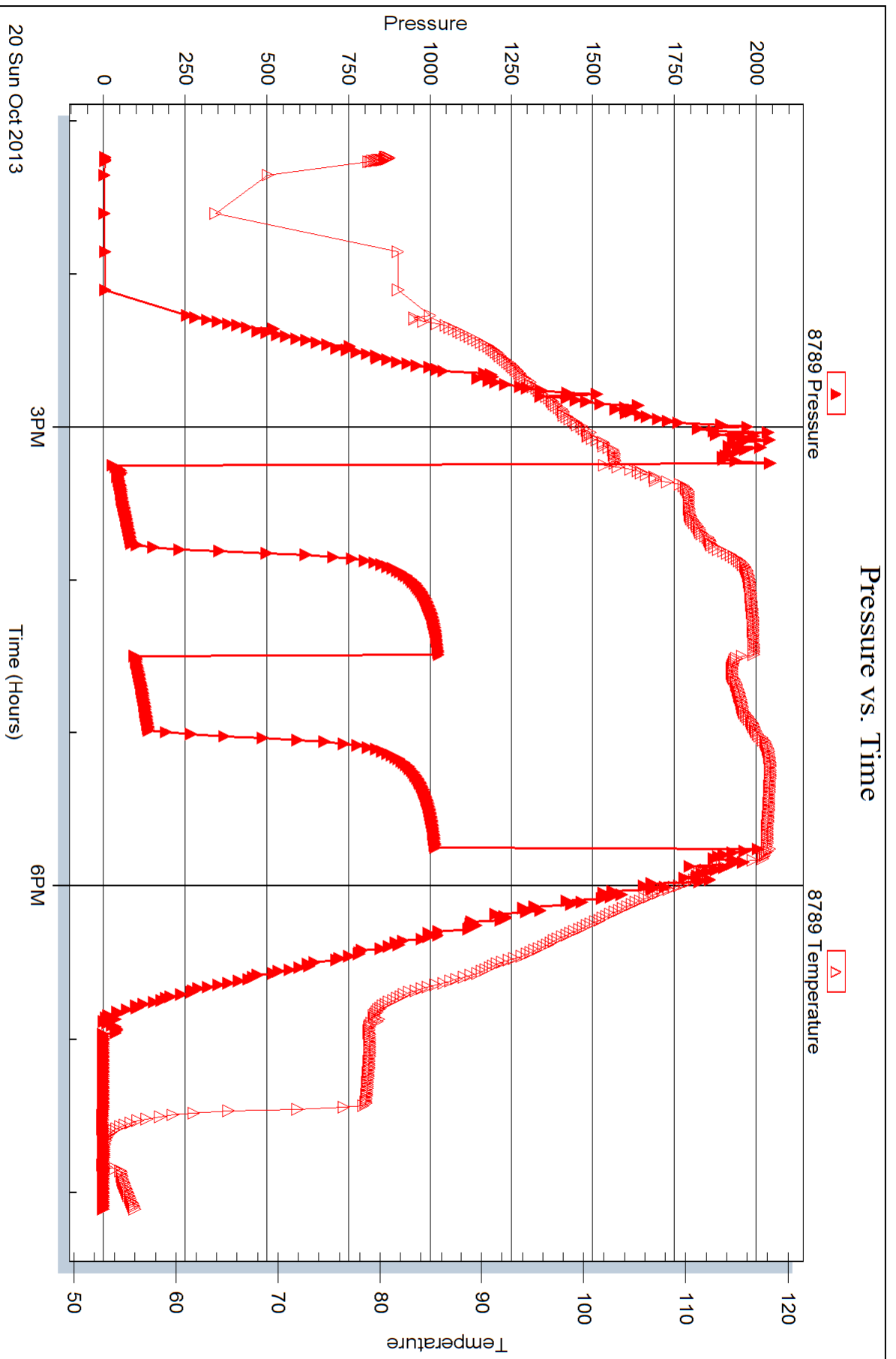
Serial #: 8789

Inside

H&C Oil Operating Inc

13-10-26 Sheridan, KS

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating Inc**

PO Box 86
Plainville KS 67663-0086

ATTN: Marc Downing

13-10-26 Sheridan,KS

Delbert Walt Trust #13-3

Start Date: 2013.10.21 @ 02:42:00

End Date: 2013.10.21 @ 08:46:00

Job Ticket #: 52268 DST #: 6

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

Printed: 2013.10.24 @ 11:47:33

H&C Oil Operating Inc

Delbert Walt Trust #13-3

13-10-26 Sheridan,KS

DST # 6

LKC " K "

2013.10.21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating Inc
 PO Box 86
 Plainville KS 67663-0086
 ATTN: Marc Downing

Delbert Walt Trust #13-3
13-10-26 Sheridan,KS
 Job Ticket: 52268 **DST#: 6**
 Test Start: 2013.10.21 @ 02:42:00

GENERAL INFORMATION:

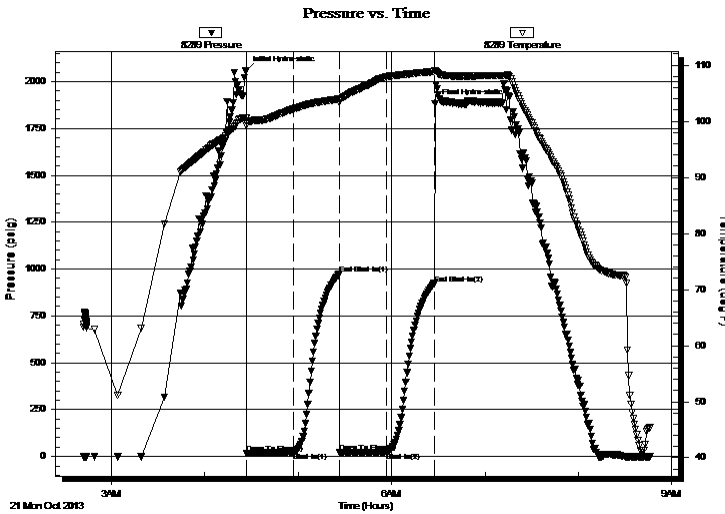
Formation: **LKC " K "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:26:45
 Time Test Ended: 08:46:00
 Interval: **4029.00 ft (KB) To 4053.00 ft (KB) (TVD)**
 Total Depth: 4053.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 54
 Reference Elevations: 2589.00 ft (KB)
 2582.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8289 Outside

Press @ Run Depth: 23.57 psig @ 4030.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.21 End Date: 2013.10.21 Last Calib.: 2013.10.21
 Start Time: 02:42:02 End Time: 08:46:00 Time On Btm: 2013.10.21 @ 04:26:30
 Time Off Btm: 2013.10.21 @ 06:27:45

TEST COMMENT: 30-IFP- 1/4" Blow
 30-ISIP- No Blow
 30-FFP- Surface Blow
 30-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2059.50	100.55	Initial Hydro-static
1	17.86	99.25	Open To Flow (1)
31	20.60	102.19	Shut-In(1)
60	972.43	103.97	End Shut-In(1)
60	22.36	103.34	Open To Flow (2)
91	23.57	107.96	Shut-In(2)
121	922.91	108.86	End Shut-In(2)
122	1883.13	109.08	Final Hydro-static

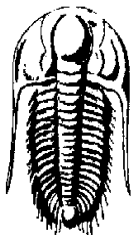
Recovery

Length (ft)	Description	Volume (bbl)
7.00	Mud 100%	0.03
0.00	Show of Oil in Tool	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Marc Downing

Delbert Walt Trust #13-3
13-10-26 Sheridan,KS
Job Ticket: 52268 **DST#: 6**
Test Start: 2013.10.21 @ 02:42:00

GENERAL INFORMATION:

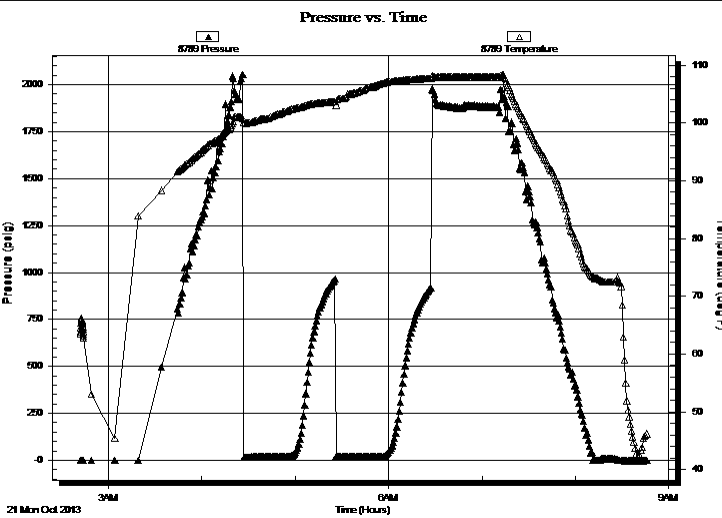
Formation: LKC " K "			
Deviated: No Whipstock: ft (KB)	Test Type: Conventional Bottom Hole (Reset)		
Time Tool Opened: 04:26:45	Tester: Jim Svaty		
Time Test Ended: 08:46:00	Unit No: 54		
Interval: 4029.00 ft (KB) To 4053.00 ft (KB) (TVD)	Reference Elevations: 2589.00 ft (KB)		
Total Depth: 4053.00 ft (KB) (TVD)	2582.00 ft (CF)		
Hole Diameter: 7.88 inches	Hole Condition: Poor	KB to GR/CF: 7.00 ft	

Serial #: 8789

Inside

Press @ Run Depth: psig @ 4030.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2013.10.21	End Date: 2013.10.21
Start Time: 02:42:02	End Time: 08:45:45
	Last Calib.: 2013.10.21
	Time On Btm:
	Time Off Btm:

TEST COMMENT: 30-IFP- 1/4" Blow
30-ISIP- No Blow
30-FFP- Surface Blow
30-FSIP- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
7.00	Mud 100%	0.03
0.00	Show of Oil in Tool	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

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Marc Downing

Delbert Walt Trust #13-3
13-10-26 Sheridan,KS
Job Ticket: 52268 **DST#: 6**
Test Start: 2013.10.21 @ 02:42:00

Tool Information

Drill Pipe:	Length: 3988.00 ft	Diameter: 3.80 inches	Volume: 55.94 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 56.09 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	4029.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	24.00 ft				
Tool Length:	52.00 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			4002.00	
Shut In Tool	5.00			4007.00	
Hydraulic tool	5.00			4012.00	
Jars	5.00			4017.00	
Safety Joint	2.00			4019.00	
Packer	5.00			4024.00	28.00 Bottom Of Top Packer
Packer	5.00			4029.00	
Stubb	1.00			4030.00	
Recorder	0.00	8789	Inside	4030.00	
Recorder	0.00	8289	Outside	4030.00	
Perforations	20.00			4050.00	
Bullnose	3.00			4053.00	24.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Marc Downing

Delbert Walt Trust #13-3
13-10-26 Sheridan,KS
Job Ticket: 52268 **DST#: 6**
Test Start: 2013.10.21 @ 02:42:00

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:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1300.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

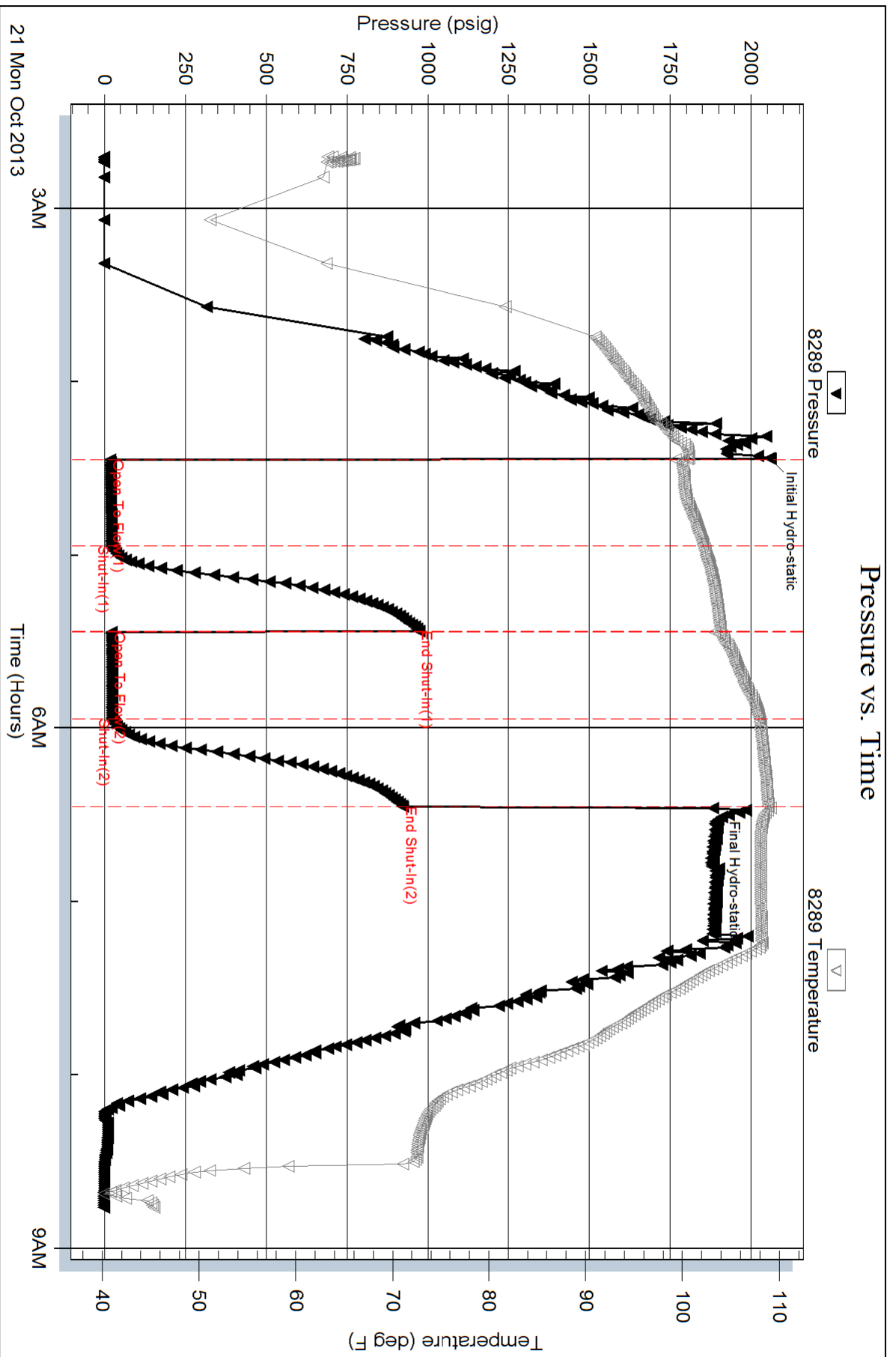
Length ft	Description	Volume bbl
7.00	Mud 100%	0.034
0.00	Show of Oil in Tool	0.000

Total Length: 7.00 ft Total Volume: 0.034 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



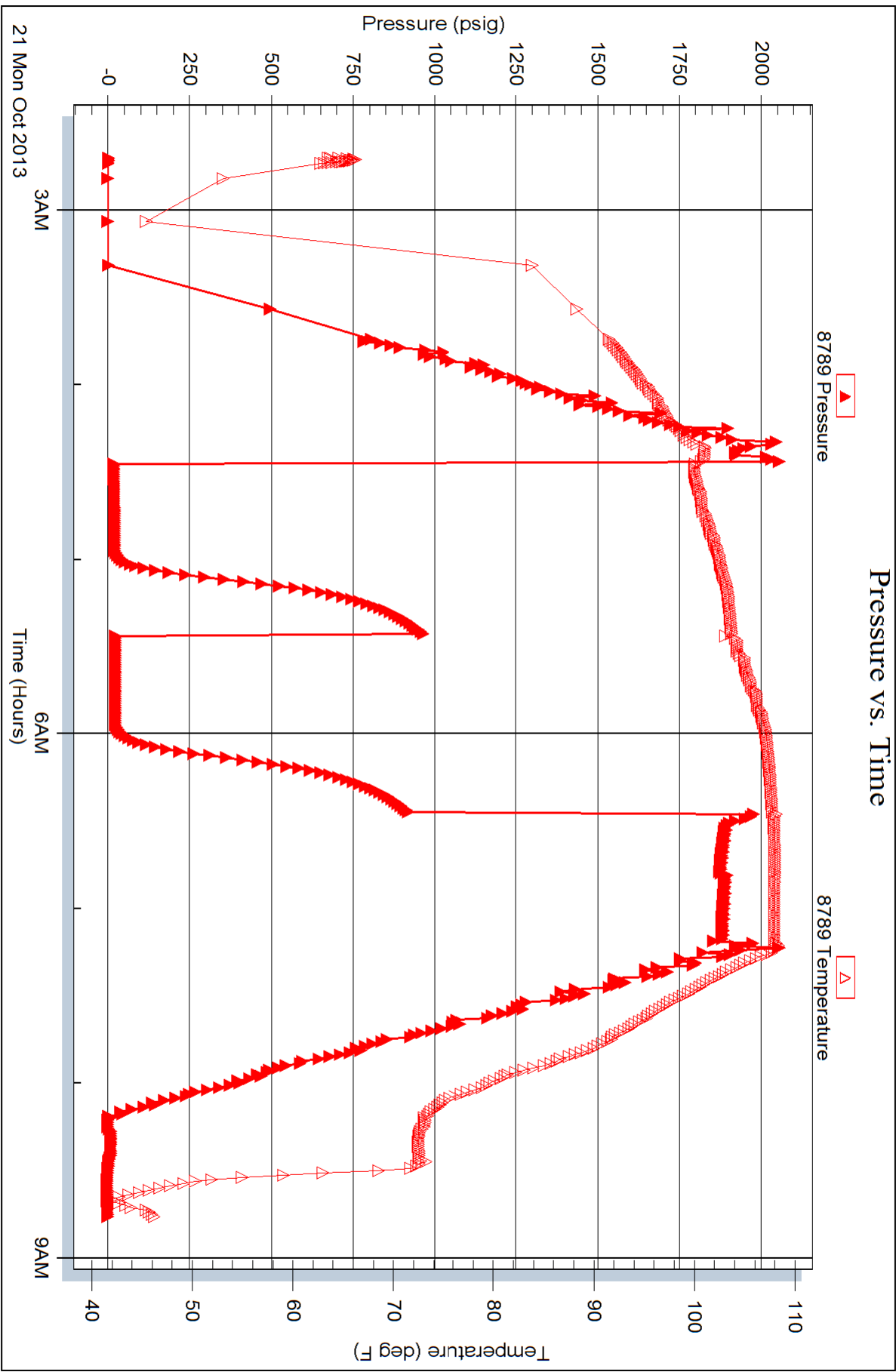
Serial #: 8789

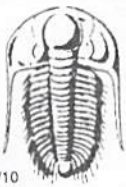
Inside

H&C Oil Operating Inc

13-10-26 Sheridan, KS

DST Test Number: 6





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52263

4/10

Well Name & No. Delbert Walt Trust 13-3 Test No. 1 Date 10-17-13
 Company H & C Oil Operating Inc. Elevation 2589 KB 2582 GL
 Address P.O. Box 86 Plainville KS, 67663-0086
 Co. Rep / Geo. MARC DOWNING Rig American Eagle #2
 Location: Sec. 13 Twp. 10-5 Rge. 26 W Co. Sheridan State KS

Interval Tested 3800-3860 Zone Tested Toronto + LRC "A"
 Anchor Length 60 Drill Pipe Run 3765 Mud Wt. 9.0
 Top Packer Depth 3795 Drill Collars Run 30 Vis 58
 Bottom Packer Depth 3800 Wt. Pipe Run Ø WL 6.2
 Total Depth 3860 Chlorides 1200 ppm System LCM 2

Blow Description IFP - SURFACE Blow Building to 1 in.
ISIP - No Blow
FFP - No Blow
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 40 BHT 108 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 1916 Test 1150 T-On Location 20:36
 (B) First Initial Flow 36 Jars 250 T-Started 01:15
 (C) First Final Flow 37 Safety Joint 75 T-Open 03:36
 (D) Initial Shut-In 592 Circ Sub _____ T-Pulled 05:36
 (E) Second Initial Flow 37 Hourly Standby _____ T-Out 07:27
 (F) Second Final Flow 38 Mileage 126 RT 195.30 Comments _____
 (G) Final Shut-In 539 Sampler _____
 (H) Final Hydrostatic 1841 Straddle _____

Initial Open 30 Shale Packer _____
 Initial Shut-In 30 Extra Packer _____
 Final Flow 30 Extra Recorder _____
 Final Shut-In 30 Day Standby _____
 Sub Total 1670.30 Accessibility _____
 MP/DST Disc't _____

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52264

Well Name & No. Delbert WALT Trust 13-3 Test No. 2 Date 10-18-13
 Company H+C Oil Operating Inc. Elevation 2589 KB 2582 GL
 Address P.O. Box 86 Plainville KS 67663-0086
 Co. Rep / Geo. Marc Downing Rig American Eagle #2
 Location: Sec. 13 Twp. 10^s Rge. 26^w Co. Sheridan State KS

Interval Tested 3853 - 3900 Zone Tested LKC "C+D"
 Anchor Length 47 Drill Pipe Run 3802 Mud Wt. 9.3
 Top Packer Depth 3848 Drill Collars Run 30 Vis 60
 Bottom Packer Depth 3853 Wt. Pipe Run 0 WL 5.4
 Total Depth 3900 Chlorides 1000 ppm System LCM 2

Blow Description IIFP - No Blow Good Surge on Oper.
ISIP - No Blow.
FFP - No Blow Flushed - No Blow
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>7</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 7 BHT 105 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1903</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>16:29</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>16:50</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>18:41</u>
(D) Initial Shut-In <u>86</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>20:41</u>
(E) Second Initial Flow <u>23</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>22:17</u>
(F) Second Final Flow <u>28</u>	<input checked="" type="checkbox"/> Mileage <u>195.30</u>	Comments _____
(G) Final Shut-In <u>187</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1820</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____

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

Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

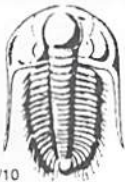
Sub Total 1670.30

Sub Total 1670.30 MP/DST Disc't _____

Approved By _____

Our Representative _____

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. 52265

Well Name & No. Delbert Walt Trust #13-3 Test No. 3 Date 10-19-13
 Company H+C Oil Operating Inc Elevation 2589 KB 2582 GL
 Address P.O. Box 86 Plainville KS 67663-0086
 Co. Rep / Geo. Marc Downing Rig American Eagle #2
 Location: Sec. 13 Twp. 10S Rge. 26W Co. Sheridan State KS

Interval Tested 3899-3923 Zone Tested LKC "E+F"
 Anchor Length 24 Drill Pipe Run 3864 Mud Wt. 9.2
 Top Packer Depth 3894 Drill Collars Run 30 Vis 60
 Bottom Packer Depth 3899 Wt. Pipe Run 0 WL 5.4
 Total Depth 3923 Chlorides 1000 ppm System LCM 2

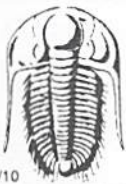
Blow Description IFP-BOB in 6min
ISIP- No Blow
FFP- BOB in 7min.
FSIP- No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>306</u>	<u>mcw Show of Oil</u>		<u>70</u>	<u>30</u>	
<u>500</u>	<u>mcw</u>		<u>95</u>	<u>5</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 806 BHT 126 Gravity API RW 1.80 @ 50 ° F Chlorides 60000 ppm
 (A) Initial Hydrostatic 1938 Test 1150 T-On Location 05:05
 (B) First Initial Flow 45 Jars 250 T-Started 05:15
 (C) First Final Flow 235 Safety Joint 75 T-Open 07:02
 (D) Initial Shut-In 945 Circ Sub _____ T-Pulled 09:02
 (E) Second Initial Flow 243 Hourly Standby _____ T-Out 11:19
 (F) Second Final Flow 398 Mileage 195.30 Comments _____
 (G) Final Shut-In 935 Sampler _____
 (H) Final Hydrostatic 1890 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Sub Total 0
 Total 1670.30
 MP/DST Disc't _____
 Sub Total 1670.30

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52266

4/10

Well Name & No. Delbert Walt Trust #13-3 Test No. 4 Date 10-19-13
 Company H&C Oil Operating Inc. Elevation 2589 KB 2582 GL
 Address P.O. Box 86 Plainville KS 67663-0086
 Co. Rep / Geo. Marc Downing Rig American Eagle #2
 Location: Sec. 13 Twp. 10S Rge. 26W Co. Sheridan State KS

Interval Tested 3958-4008 Zone Tested LKC "H&I"
 Anchor Length 50 Drill Pipe Run 3927 Mud Wt. 9.3
 Top Packer Depth 3953 Drill Collars Run ~~1200~~ 30 Vis 52
 Bottom Packer Depth 3958 Wt. Pipe Run 0 WL 5.8
 Total Depth 4008 Chlorides 1200 ppm System LCM 2

Blow Description IFP - BOB in 29 min
ISIP - No Blow
FFP - BOB in 34 min
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>0 m c w</u>	<u>5</u>	<u>55</u>	<u>40</u>	
<u>62</u>	<u>0 w c m</u>	<u>10</u>	<u>40</u>	<u>50</u>	
<u>30</u>	<u>0 w c m</u>	<u>30</u>	<u>30</u>	<u>40</u>	
<u>1</u>	<u>0</u>				
<u>—</u>	<u>90 IFP</u>				

Rec Total 217 BHT 121 Gravity 34 API RW 250 @ 38 °F Chlorides 57000 ppm

(A) Initial Hydrostatic 1996 Test 1250 T-On Location 21:53
 (B) First Initial Flow 21 Jars 250 T-Started 22:30
 (C) First Final Flow 75 Safety Joint 75 T-Open 00:24
 (D) Initial Shut-In 975 Circ Sub _____ T-Pulled 03:24
 (E) Second Initial Flow 79 Hourly Standby _____ T-Out 05:36
 (F) Second Final Flow 116 Mileage 195.30 Comments _____
 (G) Final Shut-In 953 Sampler _____
 (H) Final Hydrostatic 1879 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 1770.30
 Final Shut-In 45 Accessibility _____ MP/DST Disc't _____
 Sub Total 1770.30

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52267

Well Name & No. Delbert Walth Trust # 13-3 Test No. 5 Date 10-20-13
 Company H & CO. Operating Inc. Elevation 2589 KB 2582 GL
 Address P.O. Box 86 Plainville KS 67663-0086
 Co. Rep / Geo. Marc Downing Rig American Eagle #2
 Location: Sec. 13 Twp. 18^s Rge. 26^w Co. Sheridan State KS

Interval Tested 3985-4032 Zone Tested LKC "J"
 Anchor Length 47 Drill Pipe Run 3958 Mud Wt. 9.3
 Top Packer Depth 3980 Drill Collars Run 30 Vis 60 +
 Bottom Packer Depth 3985 Wt. Pipe Run 0 WL 5.8
 Total Depth 4032 Chlorides 1300 ppm System LCM 2

Blow Description IFP - BOBIN 7 1/2 min.
ISIP - Surface Blow Died in 20 min.
FFP - BOBIN 8 min.
FSIP - Surface Blow Building to 1/2 in. Died Back in 15 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>SWMCO</u>	<u>15</u>	<u>35</u>	<u>25</u>	<u>25</u>
<u>124</u>	<u>SWMCO</u>	<u>20</u>	<u>40</u>	<u>10</u>	<u>30</u>
<u>30</u>	<u>MCO</u>		<u>90</u>		<u>10</u>
	<u>650 ISIP</u>				

Rec Total 278 BHT 118 Gravity 35 API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic 2042 Test 1250 T-On Location 12:14
 (B) First Initial Flow 26 Jars 250 T-Started 13:14
 (C) First Final Flow 90 Safety Joint 75 T-Open 15:15
 (D) Initial Shut-In 1032 Circ Sub T-Pulled 17:45
 (E) Second Initial Flow 96 Hourly Standby T-Out 20:07
 (F) Second Final Flow 137 Mileage 195.30 Comments
 (G) Final Shut-In 1020 Sampler
 (H) Final Hydrostatic 2003 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 45
 Sub Total 1770.30
 MP/DST Disc't

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52268

4/10

Well Name & No. Delbert Walth Trust #13-3 Test No. 6 Date 10-21-13
 Company H & C Oil Operating Inc. Elevation 2589 KB 2582 GL
 Address P.O. Box 86 Plainville KS. 67663-0086
 Co. Rep / Geo. Marc Downing Rig American Eagle #2
 Location: Sec. 13 Twp. 10^s Rge. 26^w Co. Sheridan State KS

Interval Tested 4029-4053 Zone Tested LKC "K"
 Anchor Length 24 Drill Pipe Run 3988 Mud Wt. 9.3
 Top Packer Depth 4024 Drill Collars Run 30 Vis 60
 Bottom Packer Depth 4029 Wt. Pipe Run 0 WL 5.8
 Total Depth 4053 Chlorides 1300 ppm System LCM 2

Blow Description IFP- 1/4 in Blow
ISIP- No Blow
FFP- Surface Blow
FSIP- No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>7</u>	<u>mud</u>			<u>100</u>	
	<u>Show of Oil in Tool</u>				

Rec Total 7 BHT 109 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2059</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>02:27</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>02:42</u>
(C) First Final Flow <u>20</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>04:27</u>
(D) Initial Shut-In <u>972</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>06:27</u>
(E) Second Initial Flow <u>22</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>08:46</u>
(F) Second Final Flow <u>23</u>	<input checked="" type="checkbox"/> Mileage <u>195.30</u>	Comments _____
(G) Final Shut-In <u>922</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1883</u>	<input type="checkbox"/> Straddle _____	

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1770.30</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1770.30</u>	

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.