



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1226181
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1226181

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken Yes No
(Attach Additional Sheets)
Samples Sent to Geological Survey Yes No
Cores Taken Yes No
Electric Log Run Yes No

Log Formation (Top), Depth and Datum Sample
Name Top Datum

List All E. Logs Run:

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

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

Did you perform a hydraulic fracturing treatment on this well? Yes No (If No, skip questions 2 and 3)
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No (If No, skip question 3)
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No (If No, fill out Page Three of the ACO-1)

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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

Form	ACO1 - Well Completion
Operator	H & C Oil Operating Inc.
Well Name	Delbert Walt Trust 13-4
Doc ID	1226181

All Electric Logs Run

Dual induction log
Microresistivity log
Dual compensated porosity log
Sonic Cement Bond log

Marc A. Downing		Geologic Report	
Consulting Petroleum Geologist		Drilling Time and Sample Log	
Operator H&C Oil Operating, Inc.		KB Elevation 2579	
Lease Delbert Walt No. 13-4		DF 2572	
API # 15-179-21363-0000		Casing Record Surface	
Field Gurk		8 5/8" @ 265'	
Location 2310' FSL & 1650' FEL		Production 5 1/2" @ 4100'	
Sec. 13	Twp. 10s	Rge. 26w	Electrical Surveys
County Sheridan State Kansas		CNL/CDL, DIL, MEL	
Formation	Sample tops	Log Tops	Datum Struct Comp
Top Anhydrite	2200	2203	+376 -6
Base Anhydrite	2231	2237	+342 -6
Topeka	3577	3580	-1001 -8
Heebner	3786	3794	-1215 -8
Toronto	3808	3816	-1237 -9
LKC	3826	3834	-1255 -10
BKC	4058	4064	-1485 -9
Total Depth	4105	4113	-1534
Reference Well For Structural Comparison H&C Oil Operating, Inc.			
Bakel #30-1 1650' FNL & 330' FWL Sec. 30-9s-24w			

Drilling Contractor	American Eagle, Rig #2	
Commenced	8-27-14	Completed 9-4-14
Samples Saved From	3750	To RTD
Drilling Time Kept From	3450	To RTD
Samples Examined From	3750	To RTD
Geological Supervision From	3450	To RTD

Summary and Recommendations

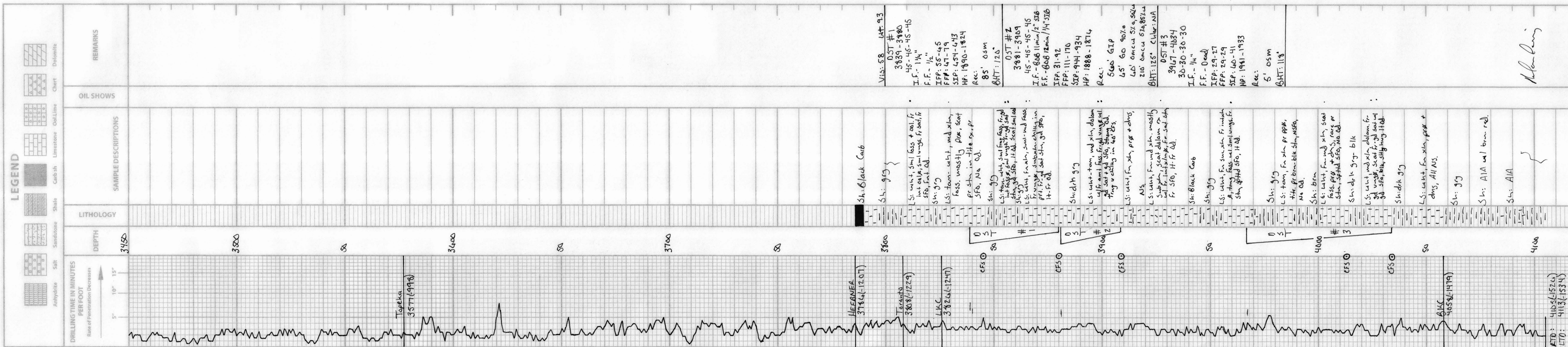
Due to structural position, DST recovery, and log evaluation, it was decided to set 5 1/2" production casing for completion.

Perforations:

LKC F: 3913-18
E: 3904-08
D: 3871-74
C: 3862-64
A: 3834-38 (Before Abandonment)

Respectfully Submitted,

Marc A. Downing





DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

13-10-26 Sheridan,KS

Delbert Walt Trust #13-4

Start Date: 2014.08.31 @ 16:05:00

End Date: 2014.09.01 @ 01:05:45

Job Ticket #: 53968 DST #: 1

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

Printed: 2014.09.04 @ 13:58:59

H&C Oil Operating Inc.

Delbert Walt Trust #13-4

13-10-26 Sheridan,KS

DST # 1

KC "C-D"

2014.08.31



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H&C Oil Operating Inc.

Delbert Walt Trust #13-4

PO Box 86
Plainville KS 67663

13-10-26 Sheridan,KS

ATTN: Marc Downing

Job Ticket: 53968

DST#: 1

Test Start: 2014.08.31 @ 16:05:00

GENERAL INFORMATION:

Formation: **KC "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:19:00

Time Test Ended: 01:05:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3839.00 ft (KB) To 3880.00 ft (KB) (TVD)

Reference Elevations: 2578.00 ft (KB)

Total Depth: 3880.00 ft (KB) (TVD)

2572.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 6.00 ft

Serial #: 8957 Outside

Press@RunDepth: 78.88 psig @ 3840.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.31

End Date:

2014.09.01

Last Calib.: 2014.09.01

Start Time: 16:05:05

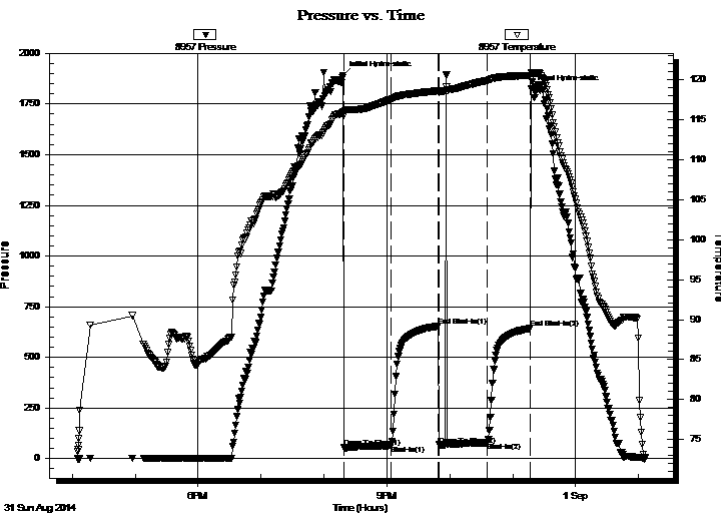
End Time:

01:05:45

Time On Btm: 2014.08.31 @ 20:18:00

Time Off Btm: 2014.08.31 @ 23:17:45

TEST COMMENT: IF-1 1/4" blow
IS-No blow
FF- 1/2" blow
FS-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1890.10	115.93	Initial Hydro-static
1	54.58	115.91	Open To Flow (1)
46	65.10	117.47	Shut-In(1)
91	654.49	118.57	End Shut-In(1)
92	66.73	118.44	Open To Flow (2)
138	78.88	119.83	Shut-In(2)
179	643.25	120.52	End Shut-In(2)
180	1823.59	120.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
85.00	OS Mud	0.92

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc.

Delbert Walt Trust #13-4

PO Box 86
Plainville KS 67663

13-10-26 Sheridan,KS

Job Ticket: 53968

DST#: 1

ATTN: Marc Downing

Test Start: 2014.08.31 @ 16:05:00

Tool Information

Drill Pipe:	Length: 3805.00 ft	Diameter: 3.80 inches	Volume: 53.37 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - 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: - bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3839.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	61.00 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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Shut In Tool	5.00			3824.00	
Hydraulic tool	5.00			3829.00	
Packer	5.00			3834.00	20.00 Bottom Of Top Packer
Packer	5.00			3839.00	
Stubb	1.00			3840.00	
Recorder	0.00	8934	Inside	3840.00	
Recorder	0.00	8957	Outside	3840.00	
Perforations	4.00			3844.00	
Change Over Sub	1.00			3845.00	
Drill Pipe	31.00			3876.00	
Change Over Sub	1.00			3877.00	
Bullnose	3.00			3880.00	41.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc.

Delbert Walt Trust #13-4

PO Box 86
Plainville KS 67663

13-10-26 Sheridan,KS

Job Ticket: 53968

DST#: 1

ATTN: Marc Downing

Test Start: 2014.08.31 @ 16:05:00

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: 41.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
85.00	OS Mud	0.919

Total Length: 85.00 ft Total Volume: 0.919 bbl

Num Fluid Samples: 0

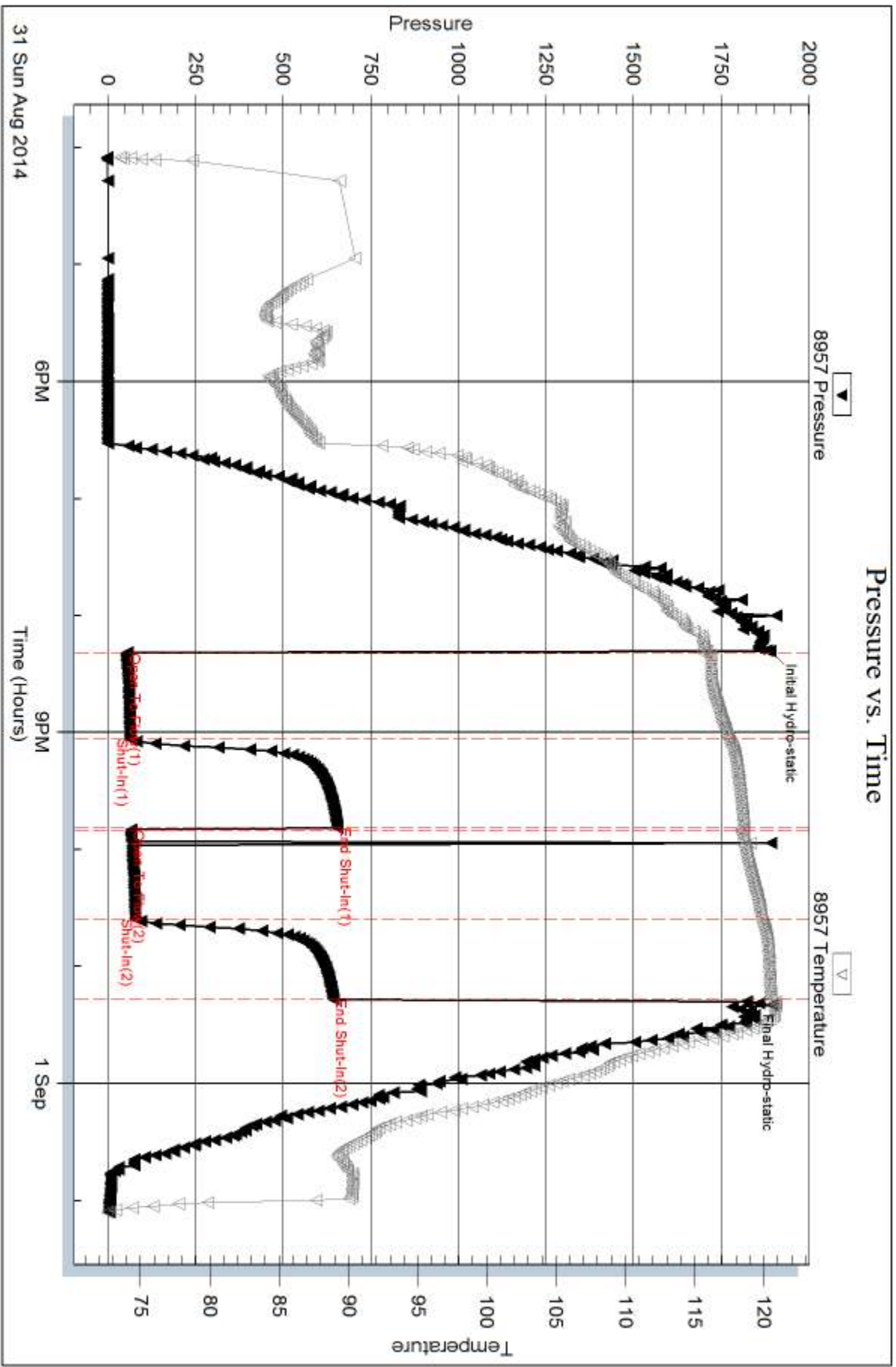
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



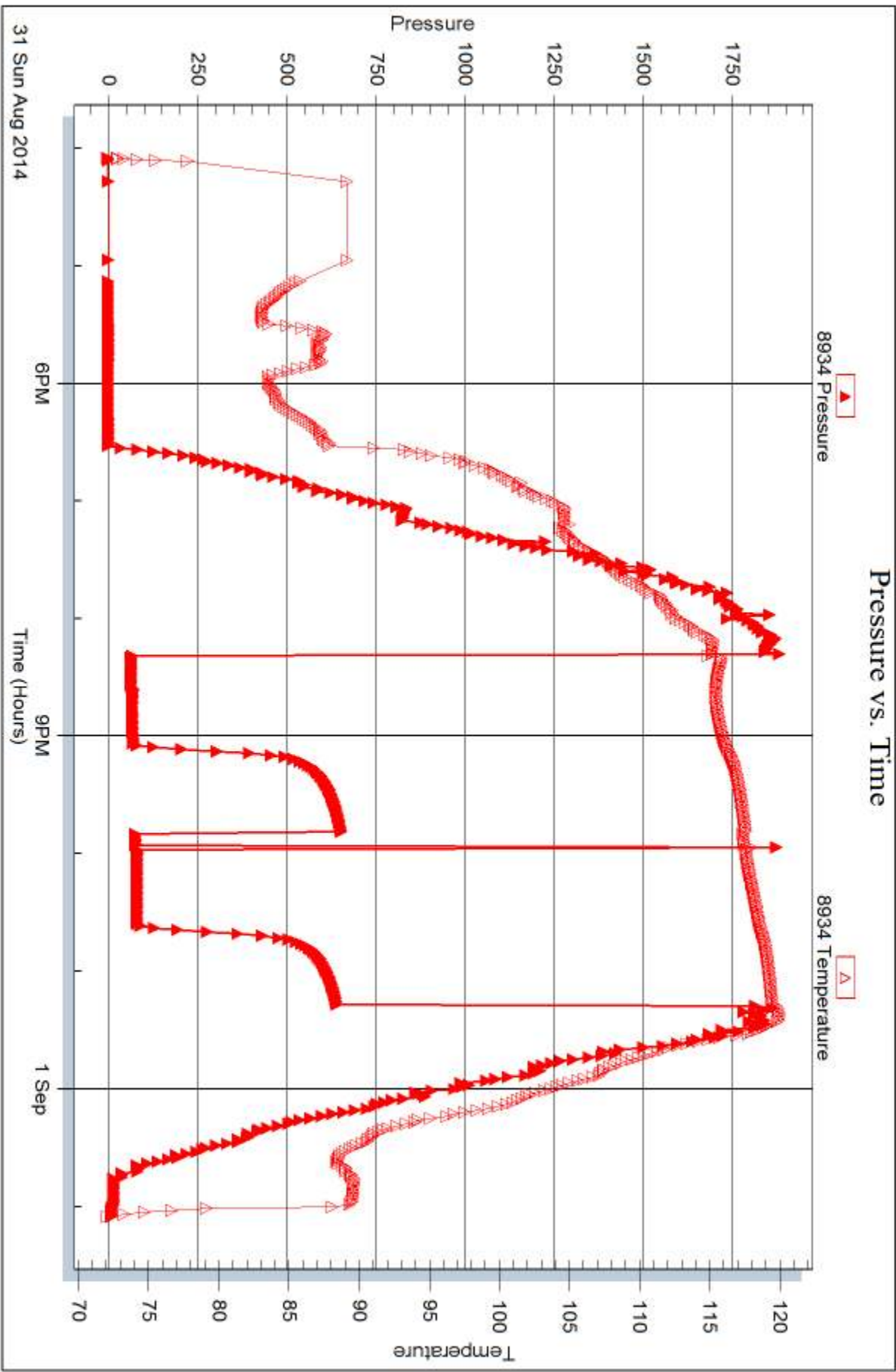
Serial #: 8934

Inside

H&C Oil Operating Inc.

13-10-26 Sheridan, KS

DST Test Number: 1





DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

13-10-26 Sheridan,KS

Delbert Walt Trust #13-4

Start Date: 2014.09.01 @ 08:55:00

End Date: 2014.09.01 @ 17:09:45

Job Ticket #: 53969 DST #: 2

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

Printed: 2014.09.04 @ 13:58:36

H&C Oil Operating Inc.

Delbert Walt Trust #13-4

13-10-26 Sheridan,KS

DST # 2

KC "E-F"

2014.09.01



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H&C Oil Operating Inc.

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

Delbert Walt Trust #13-4

13-10-26 Sheridan,KS

Job Ticket: 53969

DST#: 2

Test Start: 2014.09.01 @ 08:55:00

GENERAL INFORMATION:

Formation: **KC "E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:42:45

Time Test Ended: 17:09:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3881.00 ft (KB) To 3909.00 ft (KB) (TVD)

Reference Elevations: 2578.00 ft (KB)

Total Depth: 3909.00 ft (KB) (TVD)

2572.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8957 Outside

Press@RunDepth: 169.98 psig @ 3882.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.01

End Date: 2014.09.01

Last Calib.: 2014.09.01

Start Time: 08:55:05

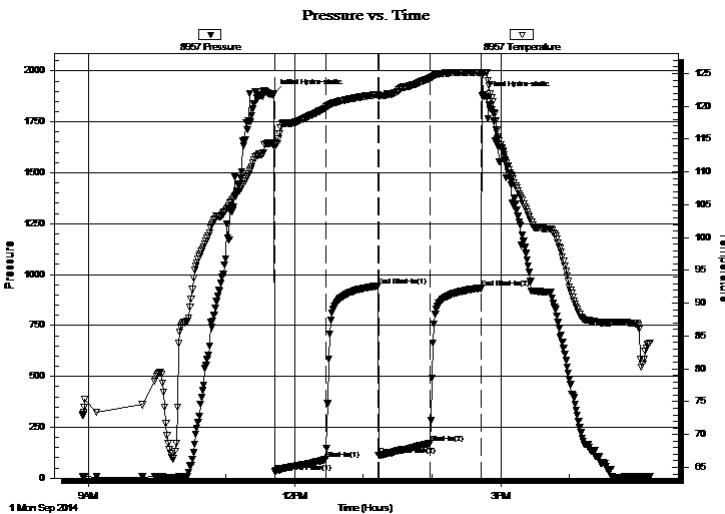
End Time: 17:09:44

Time On Btm: 2014.09.01 @ 11:42:00

Time Off Btm: 2014.09.01 @ 14:43:30

TEST COMMENT: IF-BOB in 11 min
IS-2" blow
FF-BOB in 12 min
FS- 1/4" blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1888.23	114.48	Initial Hydro-static
1	30.76	113.70	Open To Flow (1)
45	91.70	119.70	Shut-In(1)
91	944.47	121.79	End Shut-In(1)
92	111.27	121.57	Open To Flow (2)
136	169.98	124.24	Shut-In(2)
181	934.11	125.17	End Shut-In(2)
182	1876.46	124.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	V SOMCW 5%O 85%W 10%M	2.67
60.00	V SOMCW 5%O 50%W 45%M	0.84
65.00	GO 10%G 90%O	0.91
0.00	560ft 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.

Delbert Walt Trust #13-4

PO Box 86
Plainville KS 67663

13-10-26 Sheridan, KS

Job Ticket: 53969

DST#: 2

ATTN: Marc Downing

Test Start: 2014.09.01 @ 08:55:00

Tool Information

Drill Pipe:	Length: 3856.00 ft	Diameter: 3.80 inches	Volume: 54.09 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - 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:	50000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	45000.00 lb
Drill Pipe Above KB:	25.00 ft			Final	50000.00 lb
Depth to Top Packer:	3881.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	28.00 ft				
Tool Length:	48.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3866.00	
Hydraulic tool	5.00			3871.00	
Packer	5.00			3876.00	20.00 Bottom Of Top Packer
Packer	5.00			3881.00	
Stubb	1.00			3882.00	
Recorder	0.00	8934	Inside	3882.00	
Recorder	0.00	8957	Outside	3882.00	
Perforations	24.00			3906.00	
Bullnose	3.00			3909.00	28.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc.

Delbert Walt Trust #13-4

PO Box 86
Plainville KS 67663

13-10-26 Sheridan,KS

Job Ticket: 53969

DST#: 2

ATTN: Marc Downing

Test Start: 2014.09.01 @ 08:55:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 41.00 sec/qt
Water Loss: 5.98 in³
Resistivity: ohm.m
Salinity: 1400.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 39 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	VSOMCW 5%O 85%W 10%M	2.672
60.00	VSOMCW 5%O 50%W 45%M	0.842
65.00	GO 10%G 90%O	0.912
0.00	560ft GIP	0.000

Total Length: 335.00 ft Total Volume: 4.426 bbl

Num Fluid Samples: 0

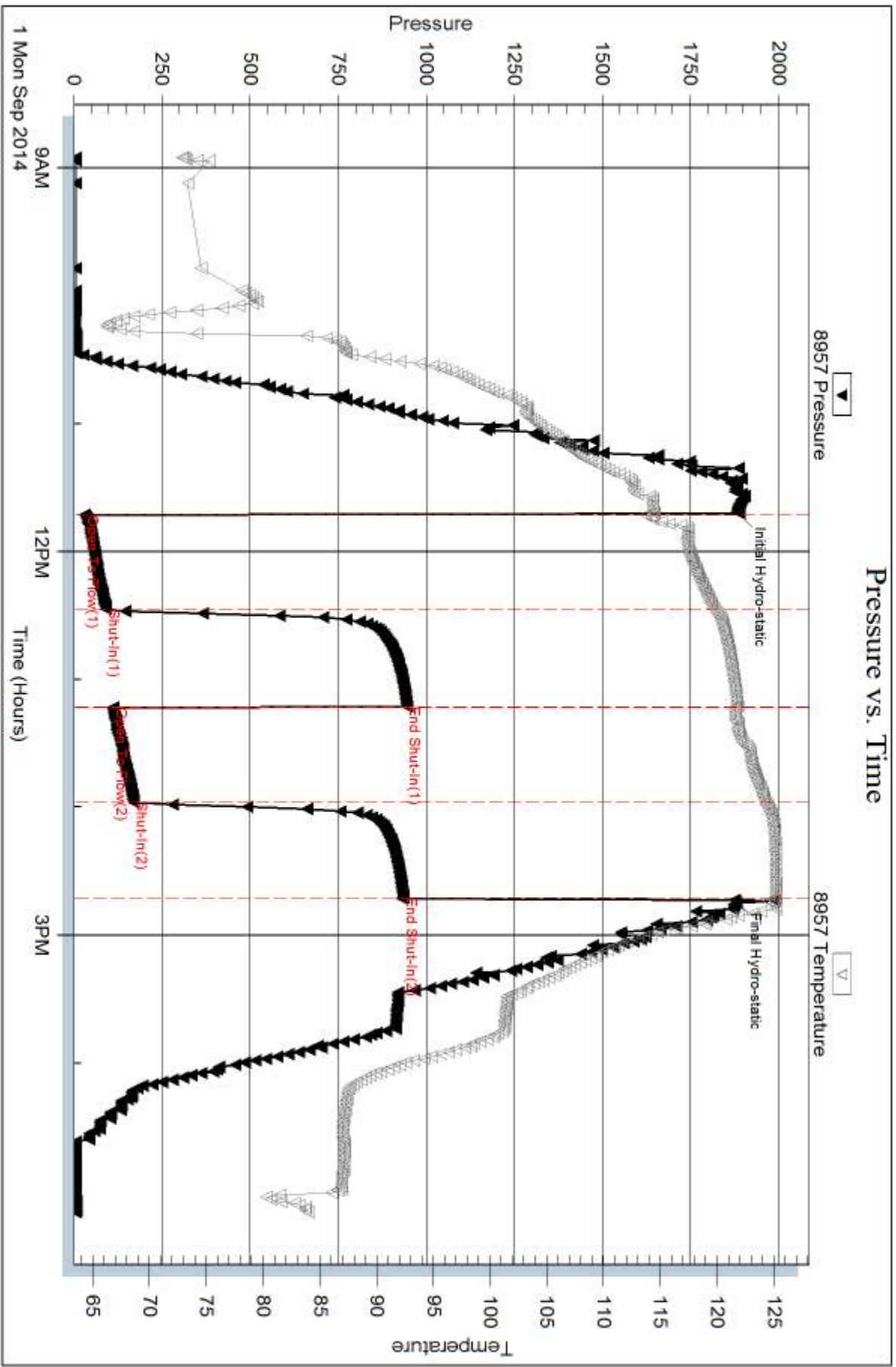
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



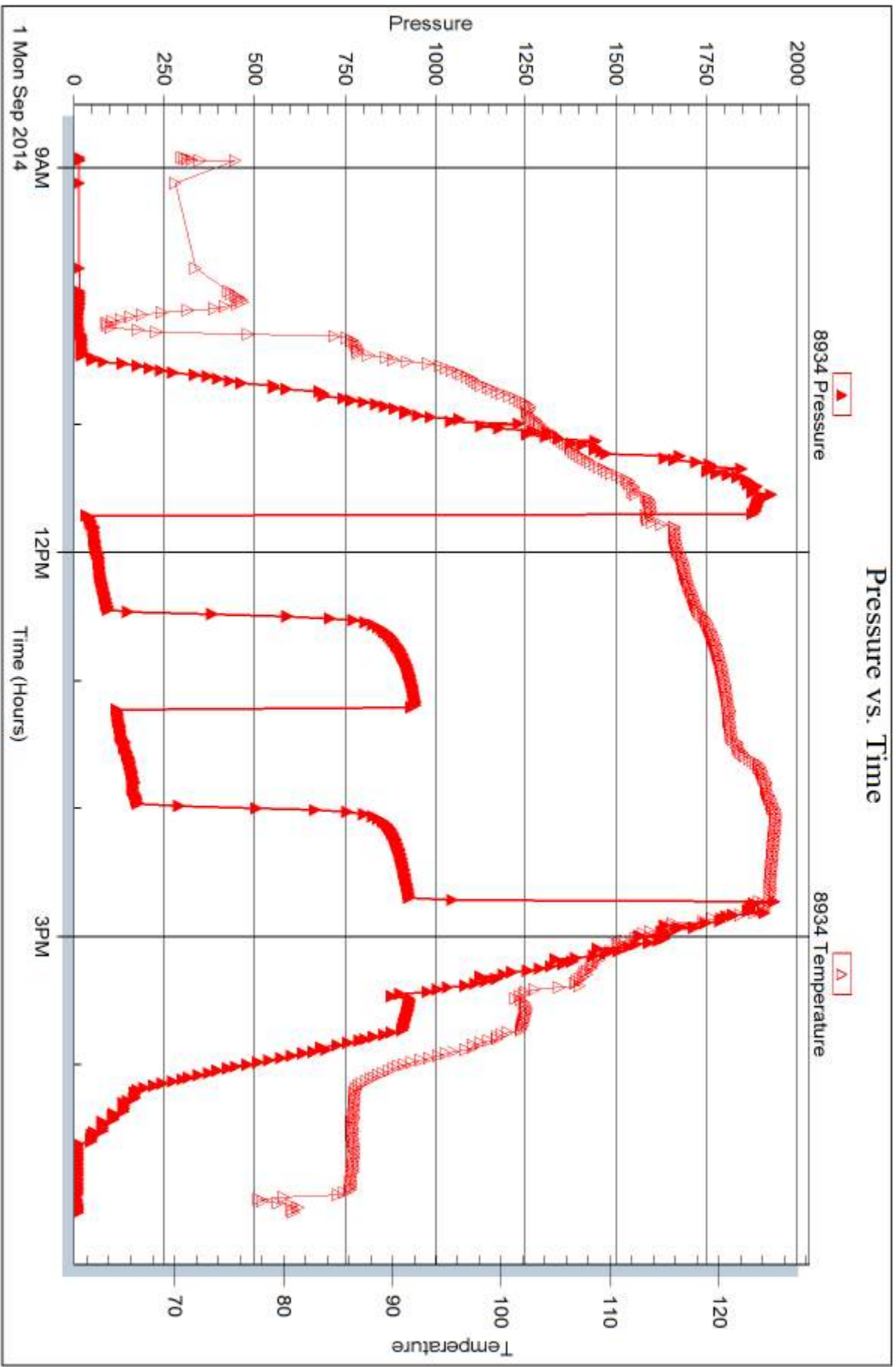
Serial #: 8934

Inside

H&C Oil Operating Inc.

13-10-26 Sheridan, KS

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 53969

Printed: 2014.09.04 @ 13:58:37



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating Inc.

Delbert Walt Trust #13-4

PO Box 86
Plainville KS 67663

13-10-26 Sheridan,KS

ATTN: Marc Downing

Job Ticket: 53970

DST#: 3

Test Start: 2014.09.02 @ 07:55:00

GENERAL INFORMATION:

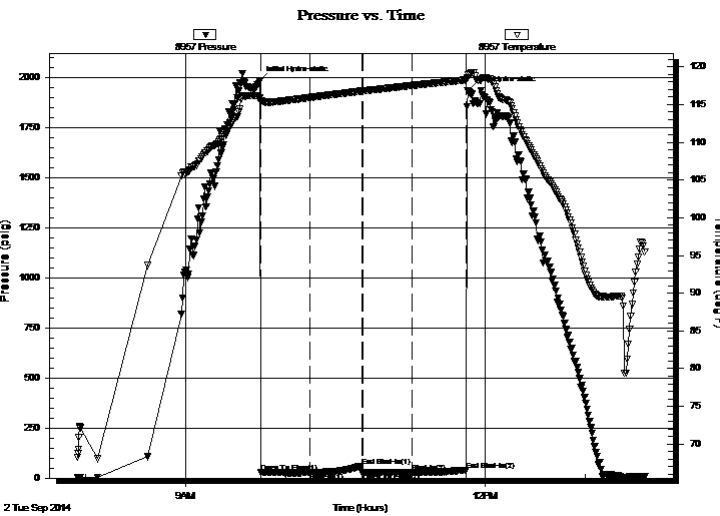
Formation: **KC "I-K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:45:15
 Time Test Ended: 13:35:30
 Interval: **3967.00 ft (KB) To 4034.00 ft (KB) (TVD)**
 Total Depth: 4034.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 2578.00 ft (KB)
 2572.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 8957

Outside

Press@RunDepth: 29.49 psig @ 3968.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.02 End Date: 2014.09.02 Last Calib.: 2014.09.02
 Start Time: 07:55:05 End Time: 13:35:29 Time On Btm: 2014.09.02 @ 09:44:15
 Time Off Btm: 2014.09.02 @ 11:49:15

TEST COMMENT: IF-1/4" blow
 IS-No blow
 FF-No blow
 FS-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1981.37	115.79	Initial Hydro-static
1	29.42	115.43	Open To Flow (1)
30	26.97	115.93	Shut-In(1)
62	59.92	116.79	End Shut-In(1)
63	28.95	116.80	Open To Flow (2)
92	29.49	117.52	Shut-In(2)
124	40.66	118.26	End Shut-In(2)
125	1933.41	118.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OS Mud	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc.

Delbert Walt Trust #13-4

PO Box 86
Plainville KS 67663

13-10-26 Sheridan,KS

Job Ticket: 53970

DST#: 3

ATTN: Marc Downing

Test Start: 2014.09.02 @ 07:55:00

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: 41.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OS Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

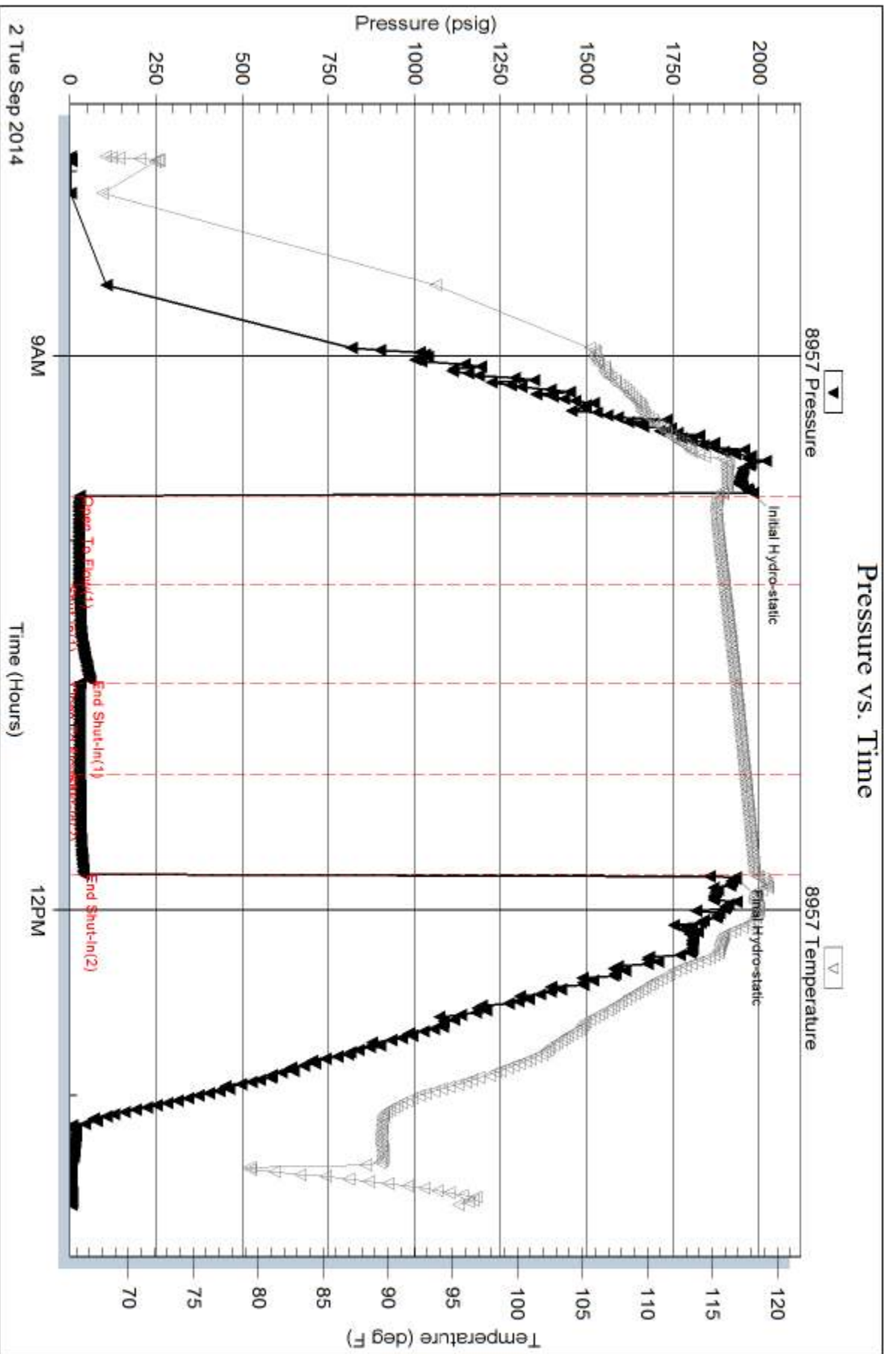
Recovery Comments:

Serial #: 8957

Outside H&C Oil Operating Inc.

13-10-26 Sheridan, KS

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53968

Well Name & No. Delbert Walt Trust #13-4 Test No. 1 Date 8-31-14
 Company H+C Oil Operating Inc. Elevation 2578 KB 2572 GL
 Address PO Box 86 Plainville KS 67663
 Co. Rep / Geo. _____ Rig American Eagle
 Location: Sec. 13 Twp. 10 Rge. 26 Co. Sheridan State KS

Interval Tested 3839-3880 Zone Tested KC" 50"
 Anchor Length 41 Drill Pipe Run _____ Mud Wt. 9.3
 Top Packer Depth 3834 Drill Collars Run 30 Vis 58
 Bottom Packer Depth 3839 Wt. Pipe Run - WL 6.0
 Total Depth 3880 Chlorides 6400 ppm System LCM 1

Blow Description FF - 1/4 in blow
FST - No blow
FF - 1/2 in blow
FST - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>85</u>	<u>OS Mud</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 85 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1,890</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>15:15</u>
(B) First Initial Flow <u>55</u>	<input type="checkbox"/> Jars _____	T-Started <u>16:05</u>
(C) First Final Flow <u>65</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>20:18</u>
(D) Initial Shut-In <u>654</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>23:18</u>
(E) Second Initial Flow <u>67</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1:05</u>
(F) Second Final Flow <u>79</u>	<input checked="" type="checkbox"/> Mileage <u>128.40</u> 198.40	Comments _____
(G) Final Shut-In <u>643</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>6824</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	Total <u>1348.40</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1348.40</u>	

Approved By _____ Our Representative Bruce

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. 53969

Well Name & No. Delbert Walt trust #13-4 Test No. 2 Date 9-1-14
 Company H&C Oil Operating Inc. Elevation 2578 KB 2572 GL
 Address _____
 Co. Rep / Geo. Marc D Rig American Eagle
 Location: Sec. 13 Twp. 10 Rge. 26 Co. Sheridan State KS

Interval Tested 3881 - 3909 Zone Tested KC¹F-F¹¹
 Anchor Length 28 Drill Pipe Run _____ Mud Wt. _____
 Top Packer Depth 3876 Drill Collars Run 30 Vis _____
 Bottom Packer Depth 3881 Wt. Pipe Run — WL _____
 Total Depth 3909 Chlorides _____ ppm System LCM _____

Blow Description IF - BOB in 11 min
IST - 2 in blow
FF - BOB in 12 min
PSI - 1/4 in blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>60</u>	<u>10</u>	<u>90</u>		
<u>60</u>	<u>VSOM^{MCW}</u>		<u>5</u>	<u>50</u>	<u>45</u>
<u>210</u>	<u>VSOM^{MCW}</u>		<u>5</u>	<u>85</u>	<u>10</u>
<u>—</u>	<u>560 AT GIP</u>				
<u>—</u>	<u>—</u>				

Rec Total 335 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1,888 Test 1150 T-On Location 8:40
 (B) First Initial Flow 31 Jars _____ T-Started 8:55
 (C) First Final Flow 92 Safety Joint _____ T-Open 11:40
 (D) Initial Shut-In 944 Circ Sub _____ T-Pulled 14:40
 (E) Second Initial Flow 111 Hourly Standby _____ T-Out 17:10
 (F) Second Final Flow 170 Mileage 128.7 198.40
 (G) Final Shut-In 934 Sampler _____
 (H) Final Hydrostatic 1,876 Straddle _____

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 43
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1348.40
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1348.40

Approved By _____ Our Representative Beth Decker

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. 53970

Well Name & No. Delbert Welf Trust #13-4 Test No. 3 Date 9-2-14
 Company Hdc Oil Operating Inc. Elevation 2578 KB 2572 GL
 Address _____
 Co. Rep / Geo. Mace D Rig American Eagle
 Location: Sec. 13 Twp. 10 Rge. 26 Co. Sheridan State KS

Interval Tested 3967-4034 Zone Tested KC" I-K"
 Anchor Length 67 Drill Pipe Run _____ Mud Wt. _____
 Top Packer Depth 3962 Drill Collars Run 30 Vis _____
 Bottom Packer Depth 3967 Wt. Pipe Run _____ WL _____
 Total Depth 4034 Chlorides _____ ppm System LCM _____

Blow Description IF - 4 1/2 blow
ISF - No blow
FF - No blow
FST - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>OS Mud</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 5 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>4981</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>7:45</u>
(B) First Initial Flow <u>29</u>	<input type="checkbox"/> Jars _____	T-Started <u>7:45</u>
(C) First Final Flow <u>27</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>9:42</u>
(D) Initial Shut-In <u>60</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>11:42</u>
(E) Second Initial Flow <u>29</u>	<input type="checkbox"/> Hourly Standby _____	T-Out _____
(F) Second Final Flow <u>29</u>	<input checked="" type="checkbox"/> Mileage <u>128.7</u> 198.40	Comments <u>load 700/5</u>
(G) Final Shut-In <u>41</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1933</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

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

Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 1448.40

Sub Total 0
 Total 1448.40
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 383

Date	9-3-14	13	10	26	Shesidan	KS	On Location	18:15pm
Lease	Delbert Wain Trust		Well No. 13-4		Location St Peter 4 1/2 mi S into		Owner	
Contractor	American Eagle #3 To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.							
Type Job	Production String							
Hole Size	7 7/8 T.D.							
Csg.	5 1/2 14# Depth 4111.51							
Tbg. Size	Depth							
Tool	Port Collar #37 Depth 2598							
Cement Left in Csg.	Shoe Joint 17693							
Meas Line	Displace 99 7/8 gal							
EQUIPMENT								
Pumptrk	No.	Cementer	C 2545					
Bulktrk	No.	Helper	W.C.K.					
Bulktrk	No.	Driver	Tyler					
JOB SERVICES & REMARKS								
Remarks:								
Rat Hole	3" Basic							
Mouse Hole								
Centralizers								
Baskets								
D/V or Port Collar								
5' 1/2 on bottom. EA Chiselation								
Pump 500 gal mud clear 500 gal spacer								
Common Ratchet Cement 5' 1/2 with								
14025K Clear 500 gal 5' Displace Plug								
Phy Lawler 1500ft								
Release Pressure Dwy								
FLOAT EQUIPMENT								
Guide Shoe								
Centralizer 14 Tombo's								
Baskets 2								
AFU Inserts Port Collar								
Float Shoe 1								
Latch Down 1								
Rotating Head								
Pumptrk Charge Prod String								
Mileage 35								
Tax								
Discount								
Total Charge								

X Signature Bob Plank

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 589

Date	8-26-2014	Sec.	13	Twp.	10	Range	24	County	SHEARDON	State	KANSAS	On Location		Finish	7:30 PM
Lease		DELBERT WALT TRUST		Well No.		13-4		Location		ST PETER KS. 4 3/4 W 1/2 S INTO					
Contractor		AMERICAN Eagle Rig #2 'Bead'													
Type Job		CEMENT SURFACE													
Hole Size		12 1/4		T.D.		263		Charge To		H & C Oil Company					
Csg.		8 5/8 New 23#		Depth				Street							
Tbg. Size				Depth				City		State					
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.		15		Shoe Joint				Cement Amount Ordered		170 sx Com. 3% cc					
Meas Line		Displace		15.80				Common		170					
EQUIPMENT															
Pumptrk	18	No.	Cementier Helper		GILBERT G. CODY B. LONKIE M.		Poz. Mix		3						
Bulktrk	3	No.	Driver				Gel.		6						
Bulktrk		No.	Driver				Calcium		Hulls						
JOB SERVICES & REMARKS															
Remarks:															
Rat Hole															
Mouse Hole															
Centralizers															
Baskets															
DN or Port Collar															
RAN 6 NEW JOINTS OF 23# B 3/8 CSG															
SET @ 263, RECEIVED CIRCULATION,															
4 CEMENT W/ 190 SX COM. 3% C.															
DISPLACED 15 3/4 GAL H ₂ O BEHIND CEMENT															
CEMENT DID NOT CIRCULATE TO SURFACE!															
L. Lonkies															
Pumptrk Charge															
Surface															
Mileage 35															
Tax															
Discount															
Total Charge															
Signature <i>Quincy...</i>															