



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1171969  
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: \_\_\_\_\_

1171969

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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

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

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

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

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	H & C Oil Operating Inc.
Well Name	Delbert Walt Trust 13-3
Doc ID	1171969

All Electric Logs Run

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





COMPANY H+C Oil Operating, Inc.

WELL Delbert Well #13-3

FIELD Guruh

LOCATION 1980 FNL + 2310 FEL

SEC. 13 TWP. 10S RGE. 24W

COUNTY Sheridan

STATE Kansas

OPERATOR H+C Oil Operating, Inc.

CONTRACTOR American Eagle, Div #2

COMM. 10-13-13 CORR. 10-21-13

SURF. 48" @ 4115 PROD. 5 1/2" @ 4115

TOTAL DEPTH DRILLERS: 4115' DITL  
TOTAL DEPTH LOG: 4118' MEL

PRODUCTION LKC  
ELEVATION KB 2589  
DF 2582  
GI 2582

Drilling Measured From: KB  
Samples Smeared From: 3800 to TD  
Drilling Time From: 3450 to TD  
Samples Examined From: 3450 to TD  
Geological Supervision From: 3450 to Total Depth  
Wellbore Geologist: Marc Downing  
Electrical Service: Pioneer  
Cul/C/CL

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
Top Anhydrite	2214	2214	+375	-8
Base Anhydrite	2245	2247	+342	-7
Topoka	3590	3590	-1001	-6
HEBNER	3802	3806	-1217	-9
Taranto	3826	3828	-1239	-8
LKC	3844	3846	-1257	-7
OKC	4074	4074	-1485	-5

REFERENCE WELL FOR STRUCTURE H+C Oil Operating, Inc.  
Delbert Well #13-2 1980 FNL + 1050 FEL SEC. 13-10S-24W

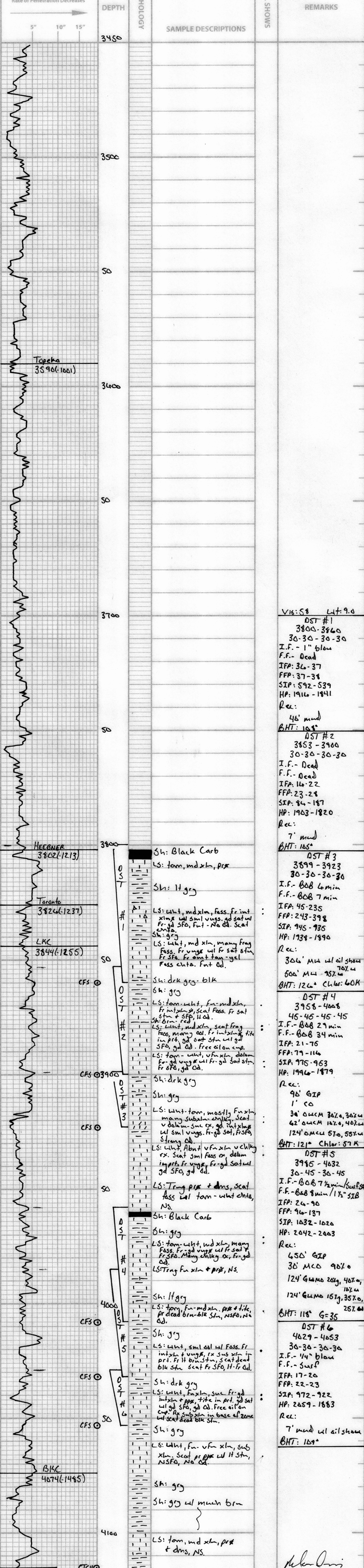
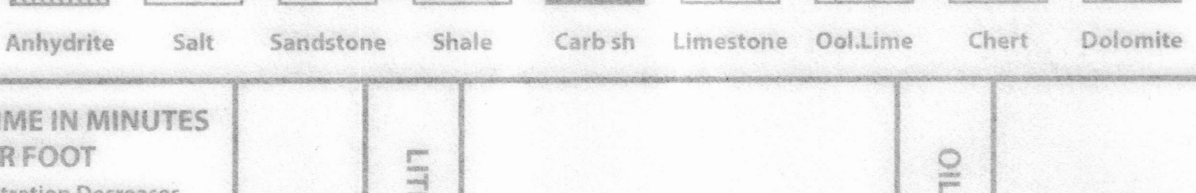
DRILL STEM TESTS

No.	Interval	HP/Time	ISD/Time	FFP/Time	ESP/Time	HP-FRP	RECOVERY

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

Perforate:  
LKC "S" : 4021-25

LEGEND







## 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

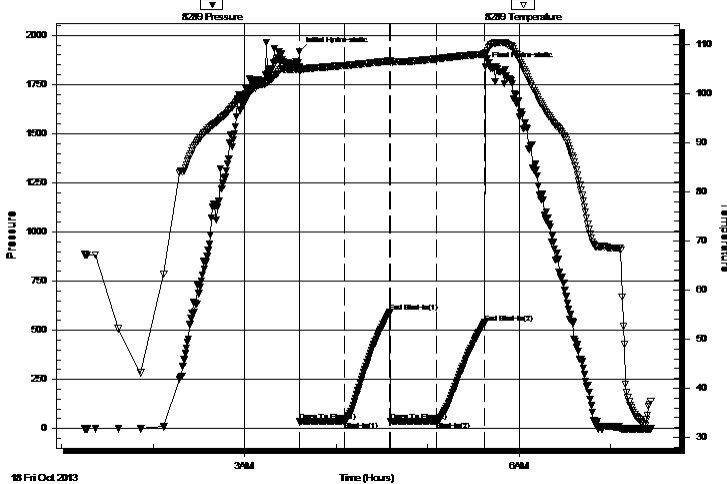
Press @ Run Depth: 38.36 psig @ 3801.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.10.18 End Date: 2013.10.18 Last Calib.: 2013.10.18  
 Start Time: 01:15:02 End Time: 07:26:45 Time On Btm: 2013.10.18 @ 03:36:00  
 Time Off Btm: 2013.10.18 @ 05:38:00

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

**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:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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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

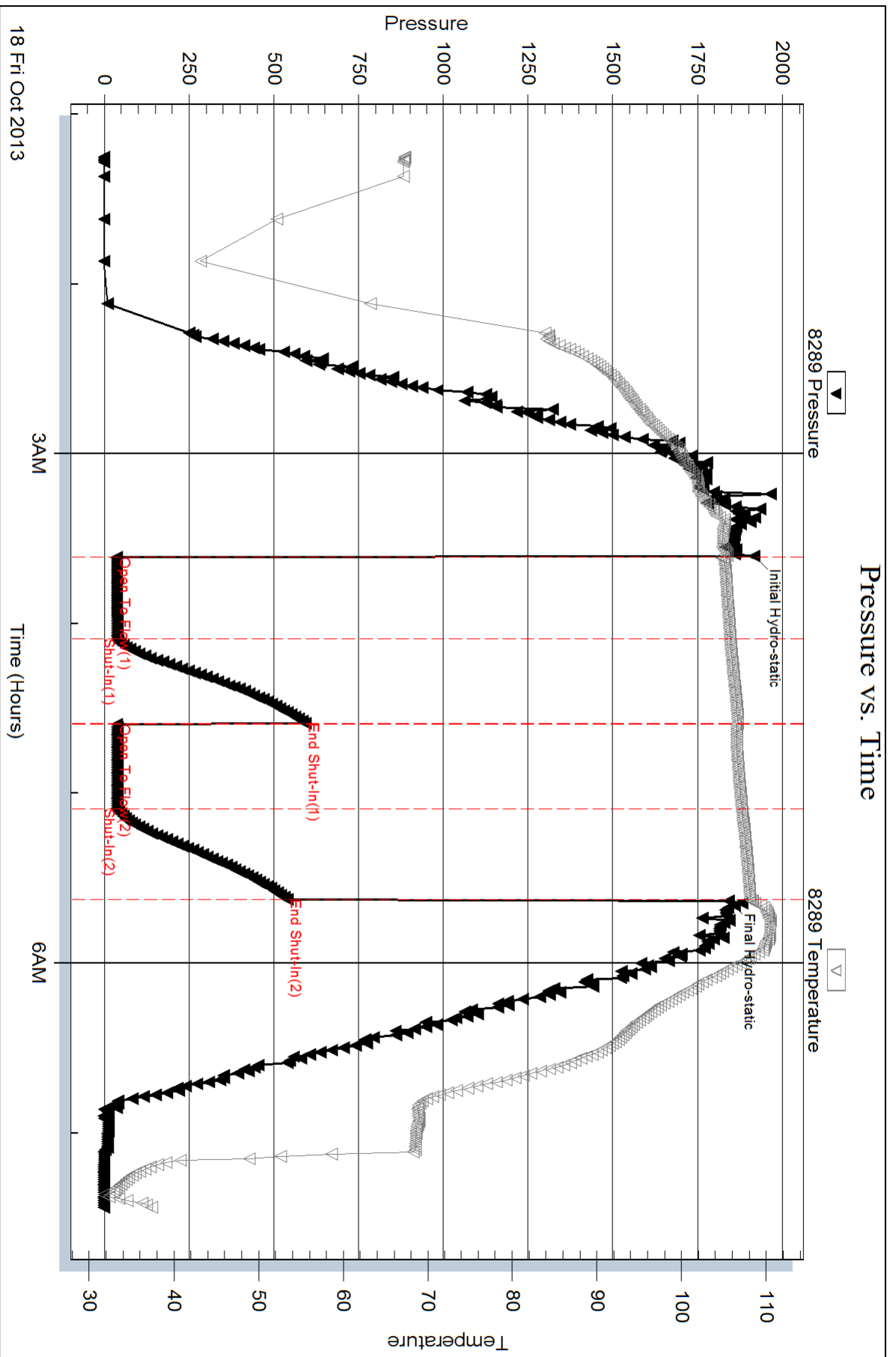
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.13 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: 2.00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

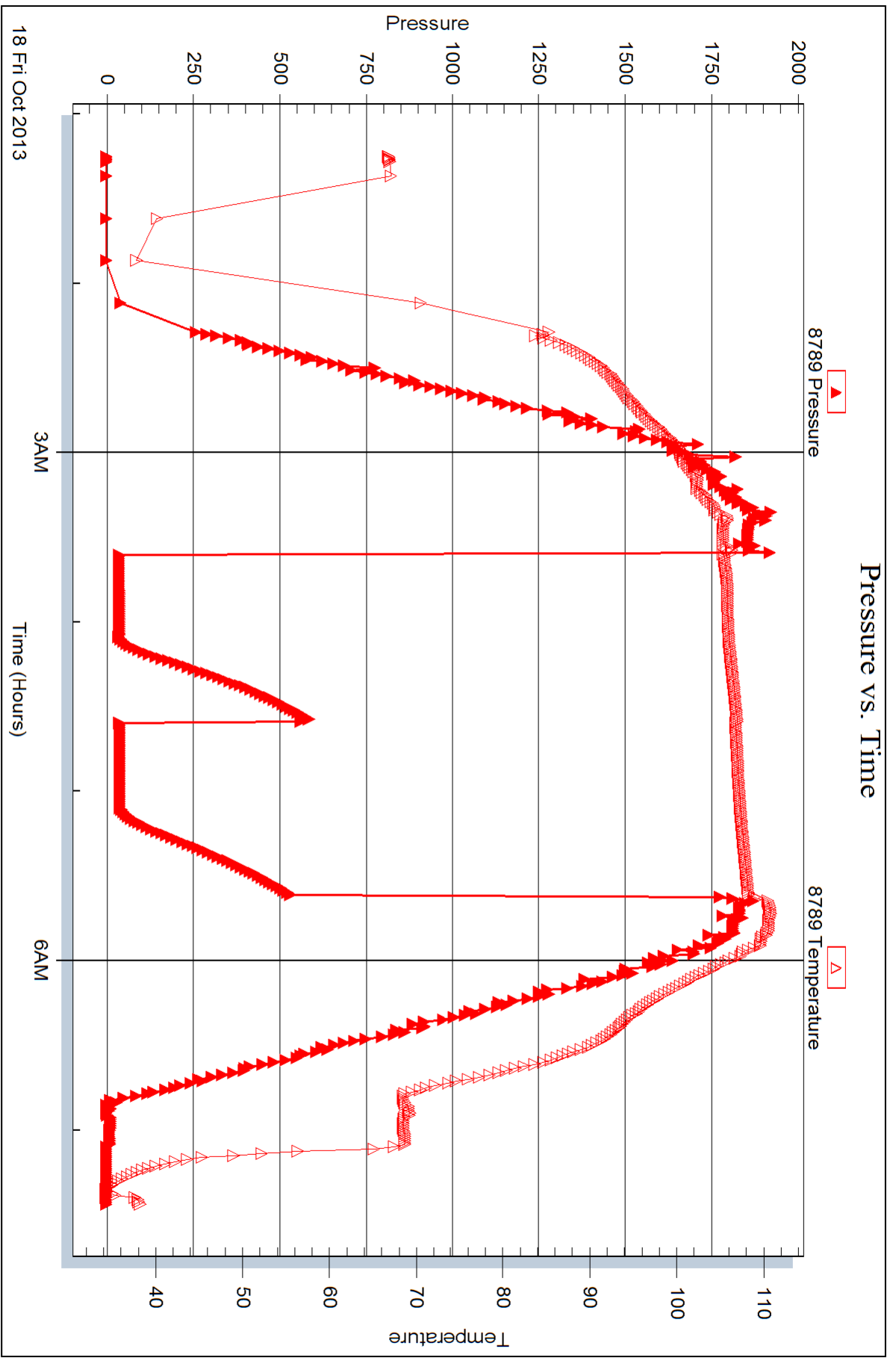
## Recovery Information

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:

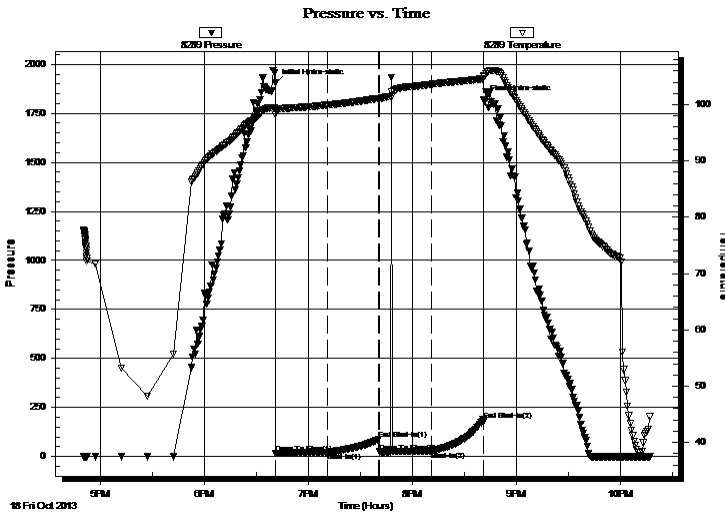
Formation: **LKC " C & D "**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 18:41:00  
 Time Test Ended: 22:17:00  
 Interval: **3853.00 ft (KB) To 3900.00 ft (KB) (TVD)**  
 Total Depth: 3900.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom 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

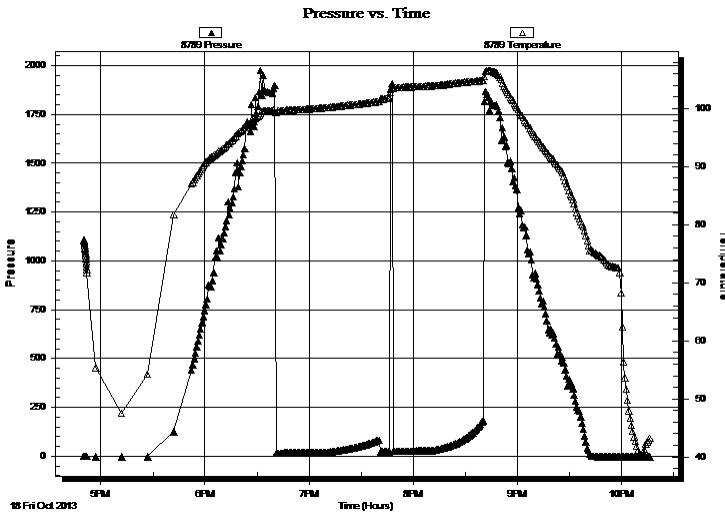
## GENERAL INFORMATION:

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:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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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

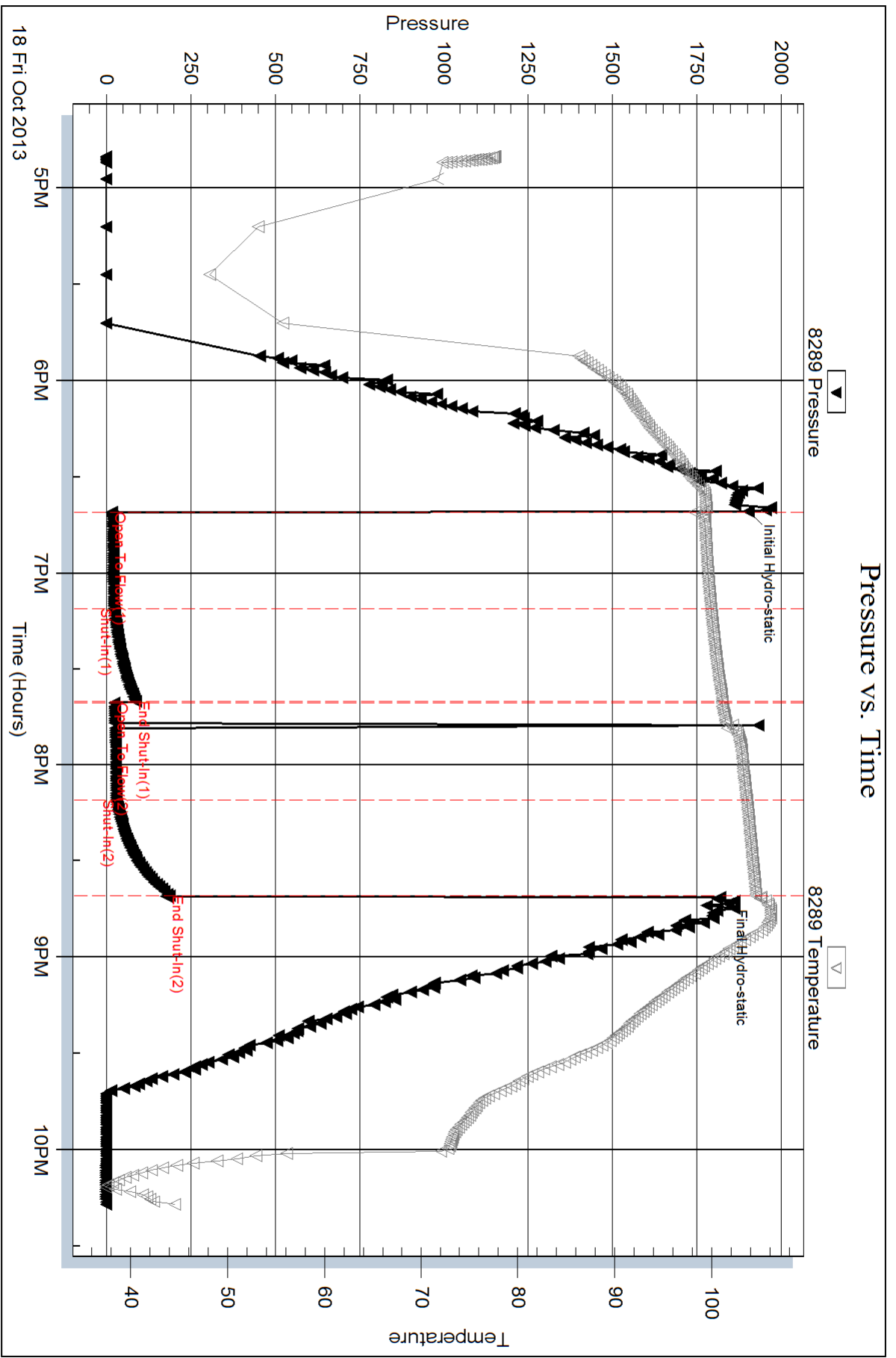
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.36 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00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



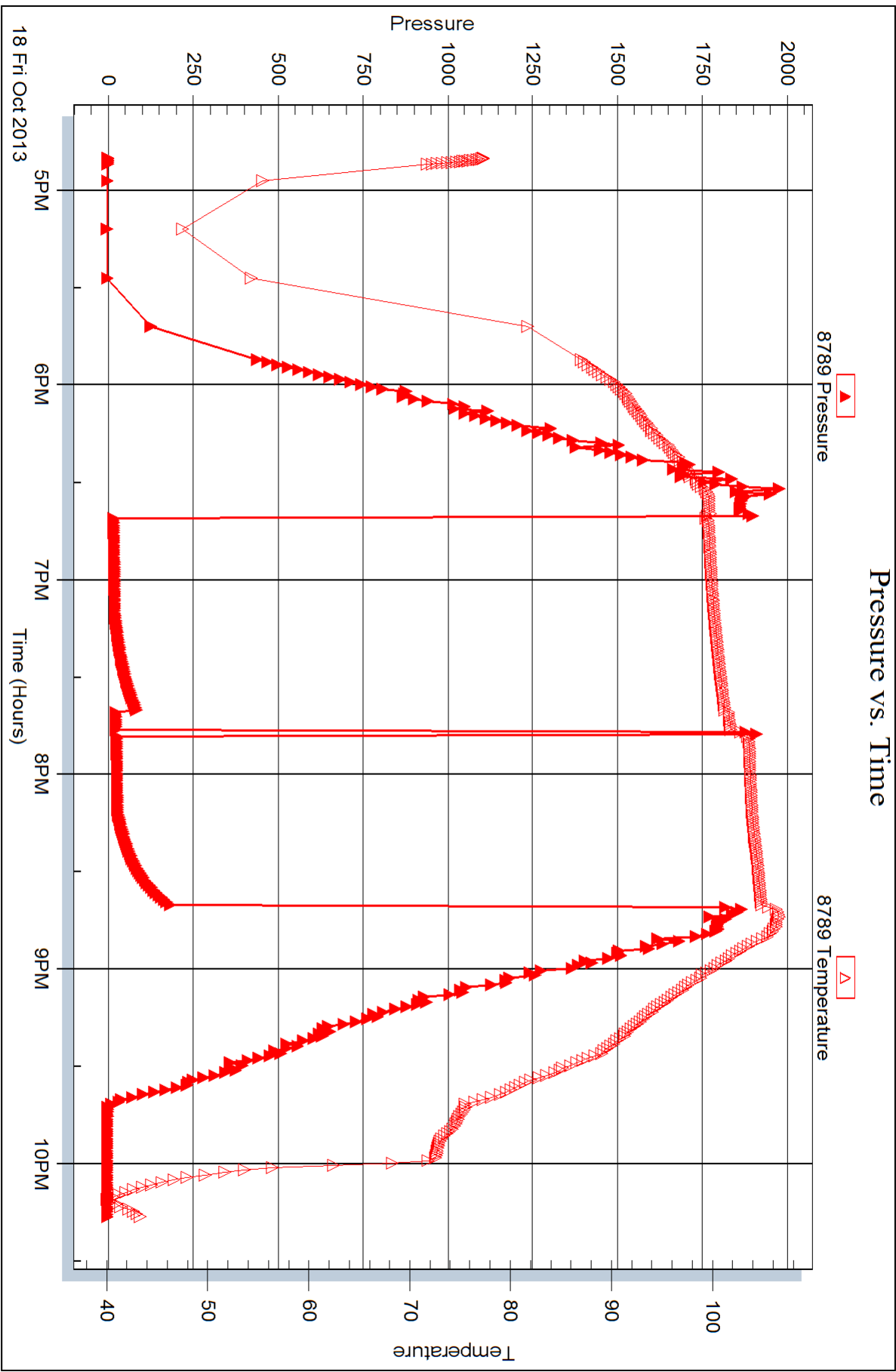
Serial #: 8789

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

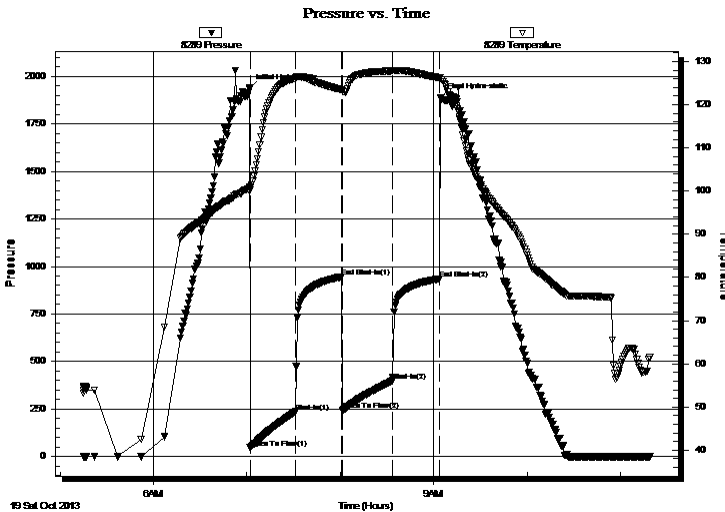
## GENERAL INFORMATION:

Formation: **LKC " E & F "**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 07:02:00  
Time Test Ended: 11:19:00  
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  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Jim Svaty  
Unit No: 54

**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

**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

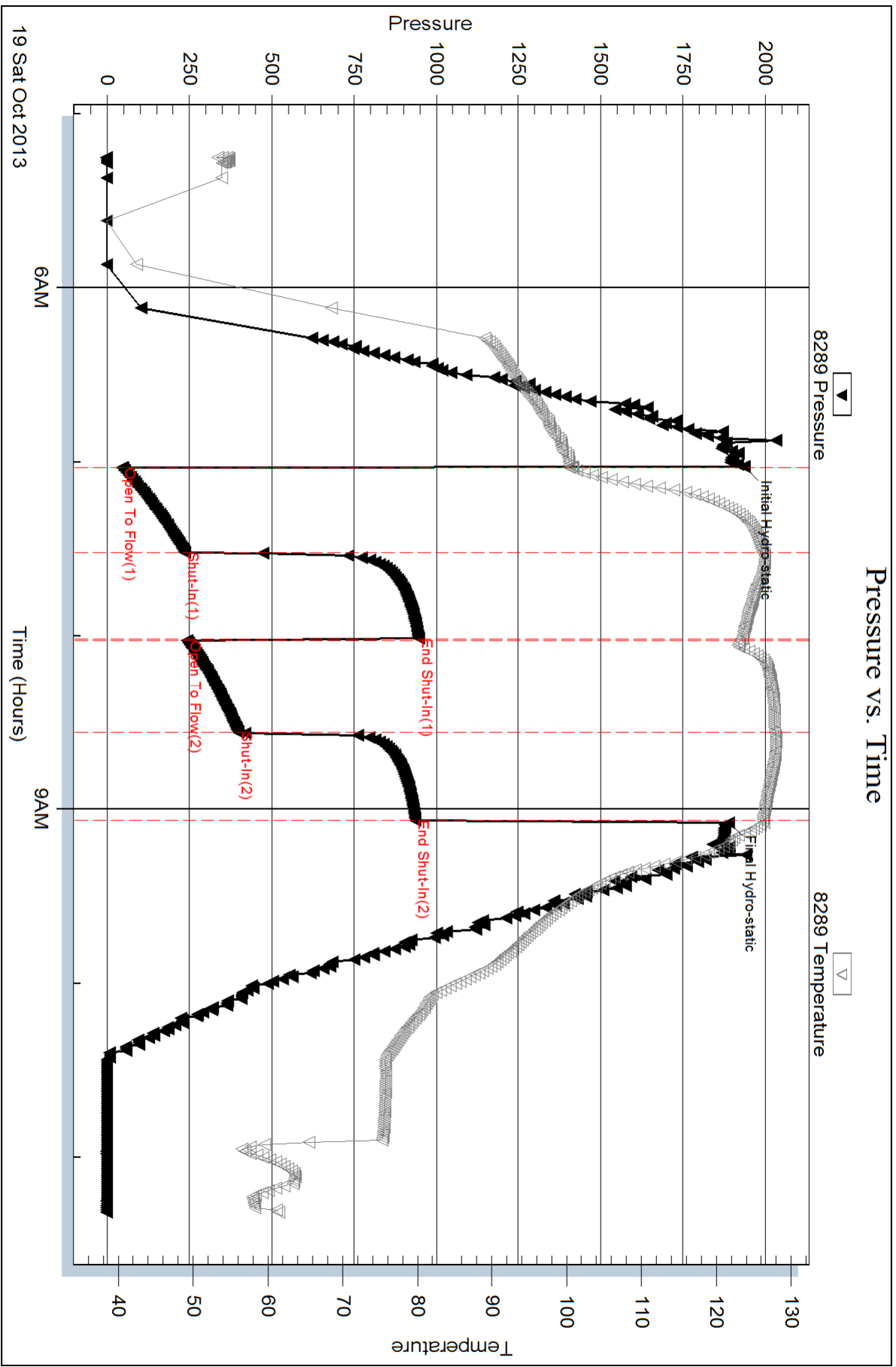
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	60000 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.37 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: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



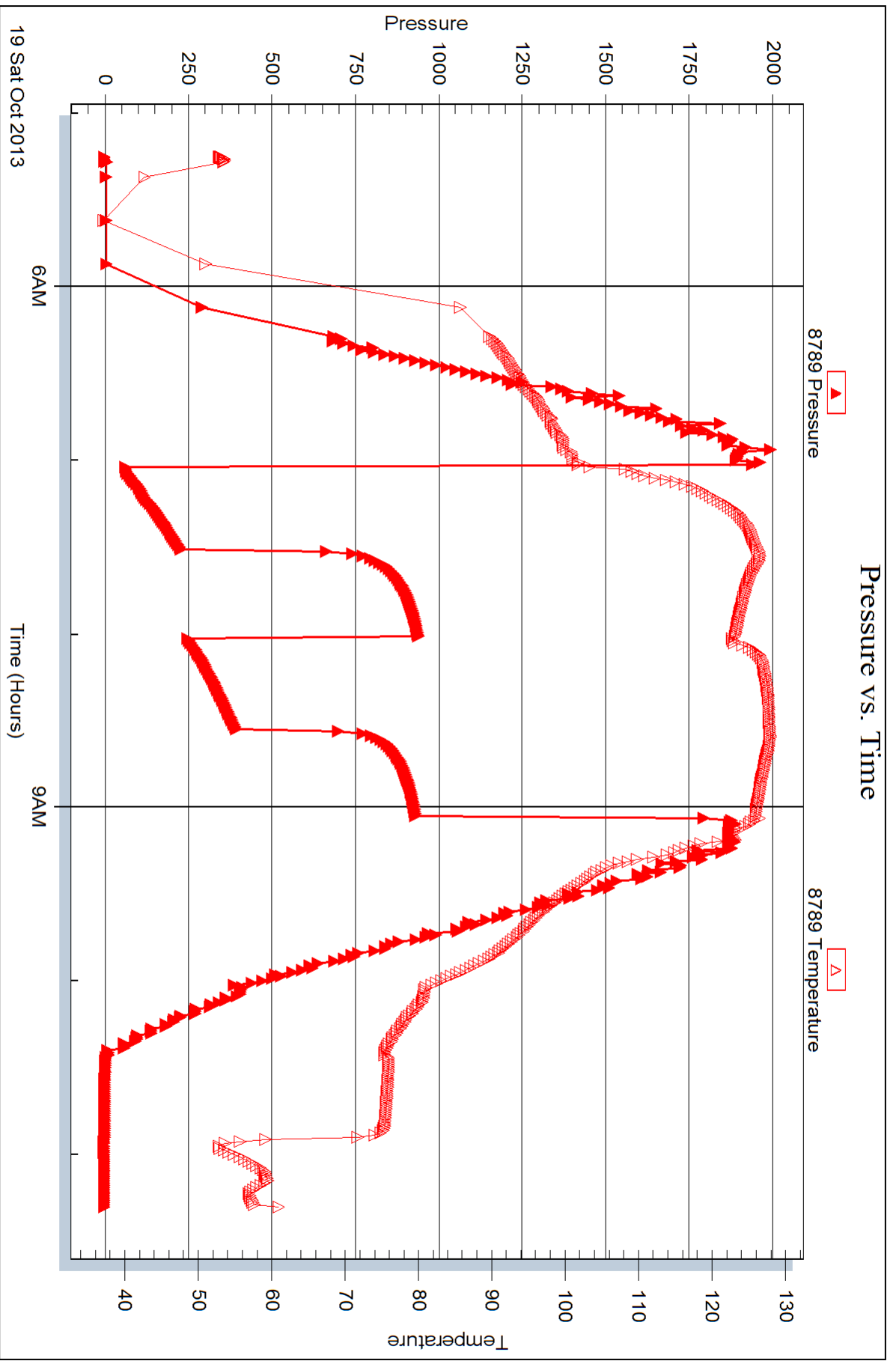
Serial #: 8789

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:

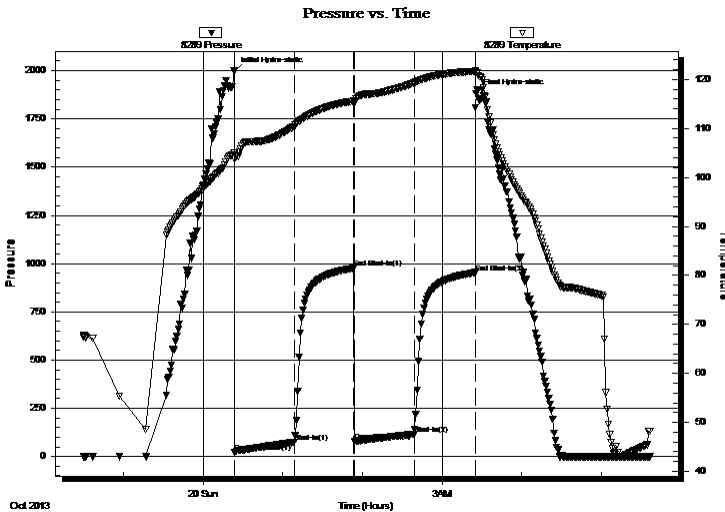
Formation: **LKC " H & I "**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 00:24:00  
Time Test Ended: 05:36:00  
Interval: **3958.00 ft (KB) To 4008.00 ft (KB) (TVD)**  
Total Depth: 4008.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Poor  
Test Type: Conventional Bottom Hole (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

**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

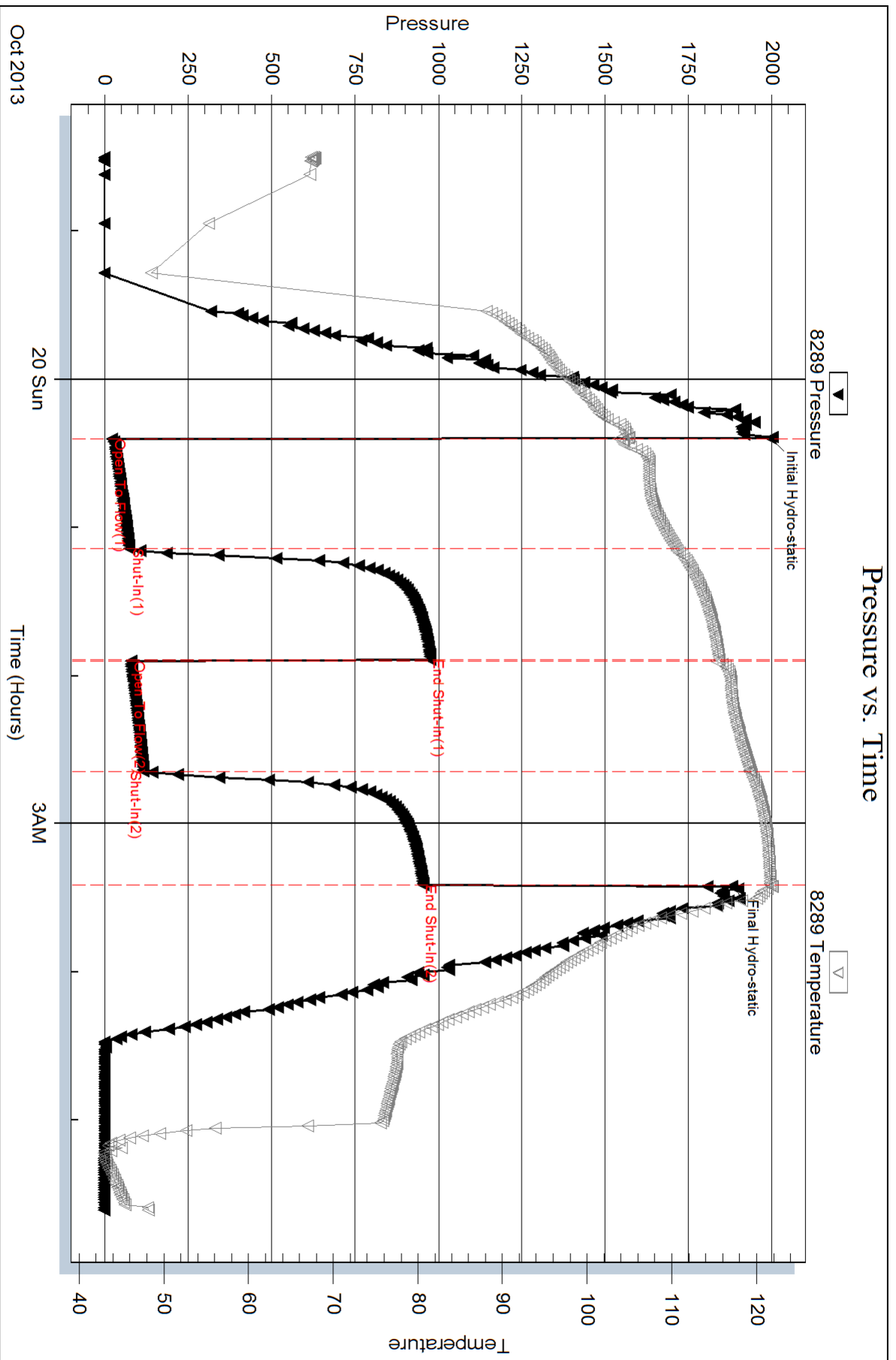
Mud Type: Gel Chem	Cushion Type:	Oil API: 34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 57000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 5.77 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1200.00 ppm		
Filter Cake: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

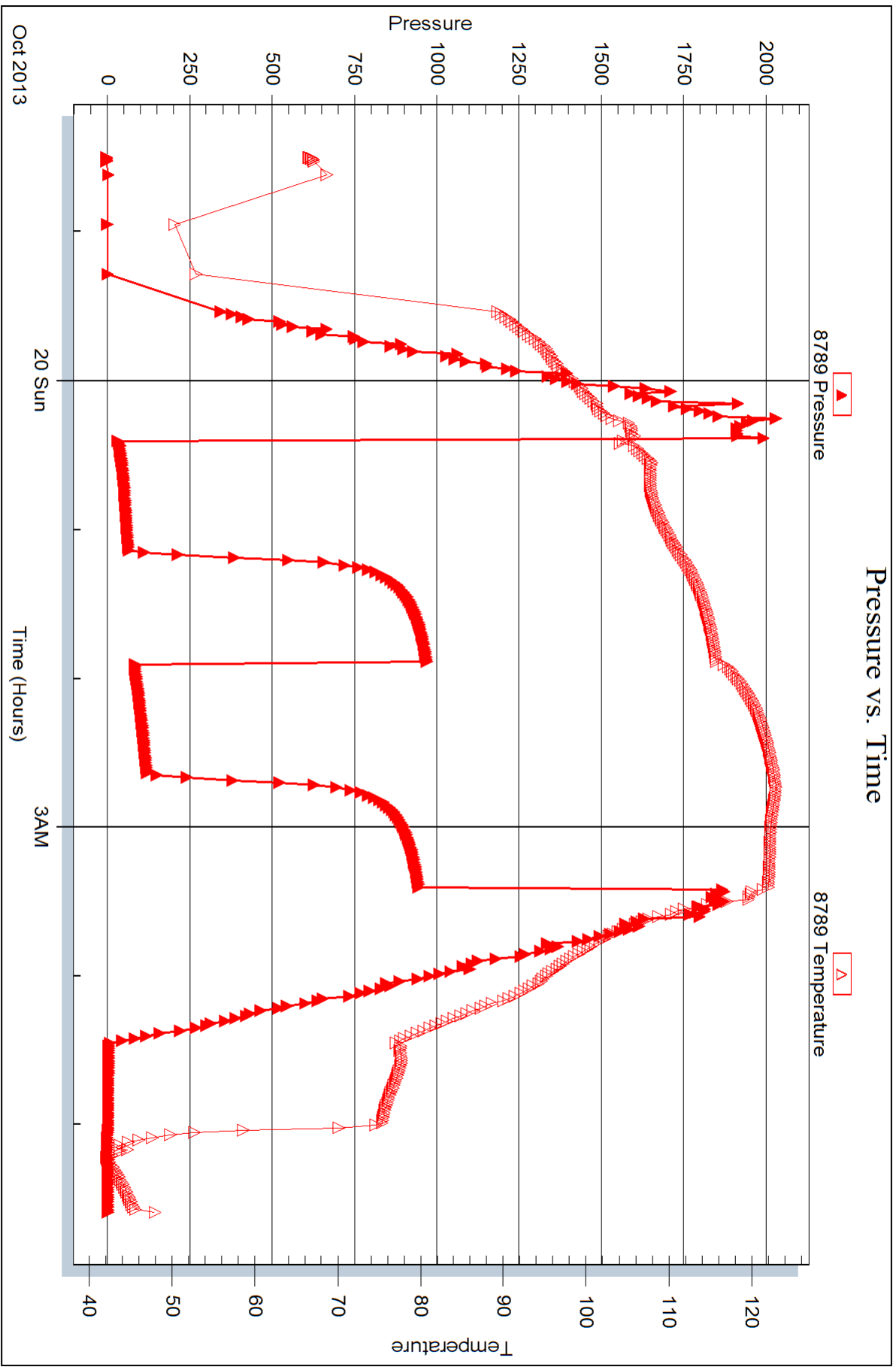
## Recovery Information

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:

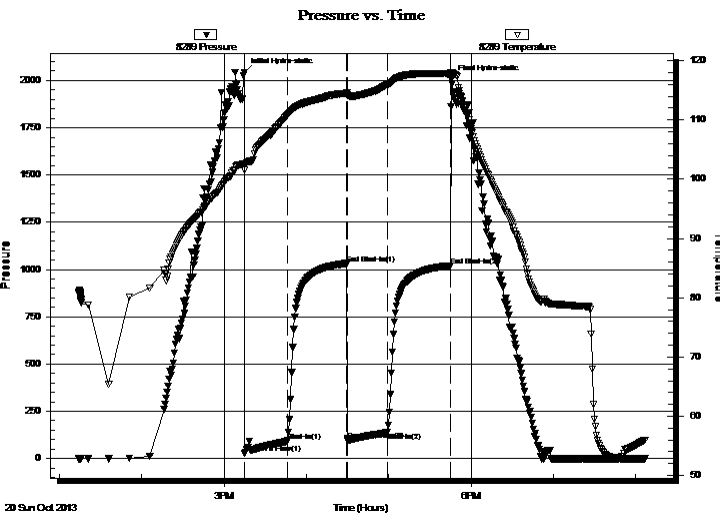
Formation: **LKC " J "**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:15:00  
 Time Test Ended: 20:07:00  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jim Svaty  
 Unit No: 54  
 Interval: **3985.00 ft (KB) To 4032.00 ft (KB) (TVD)**  
 Reference Elevations: 2589.00 ft (KB)  
 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

**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

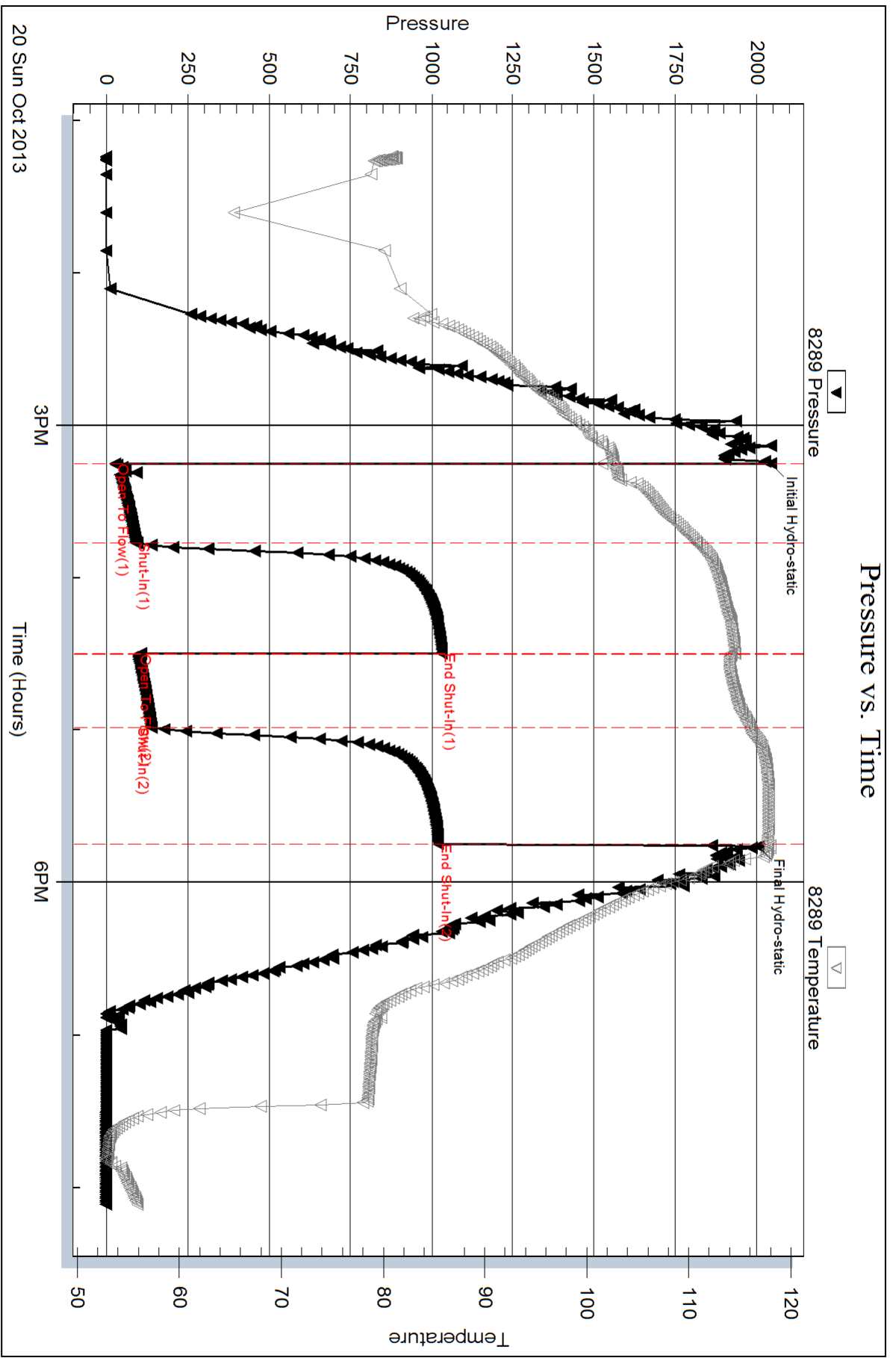
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1300.00 ppm			
Filter Cake: 2.00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



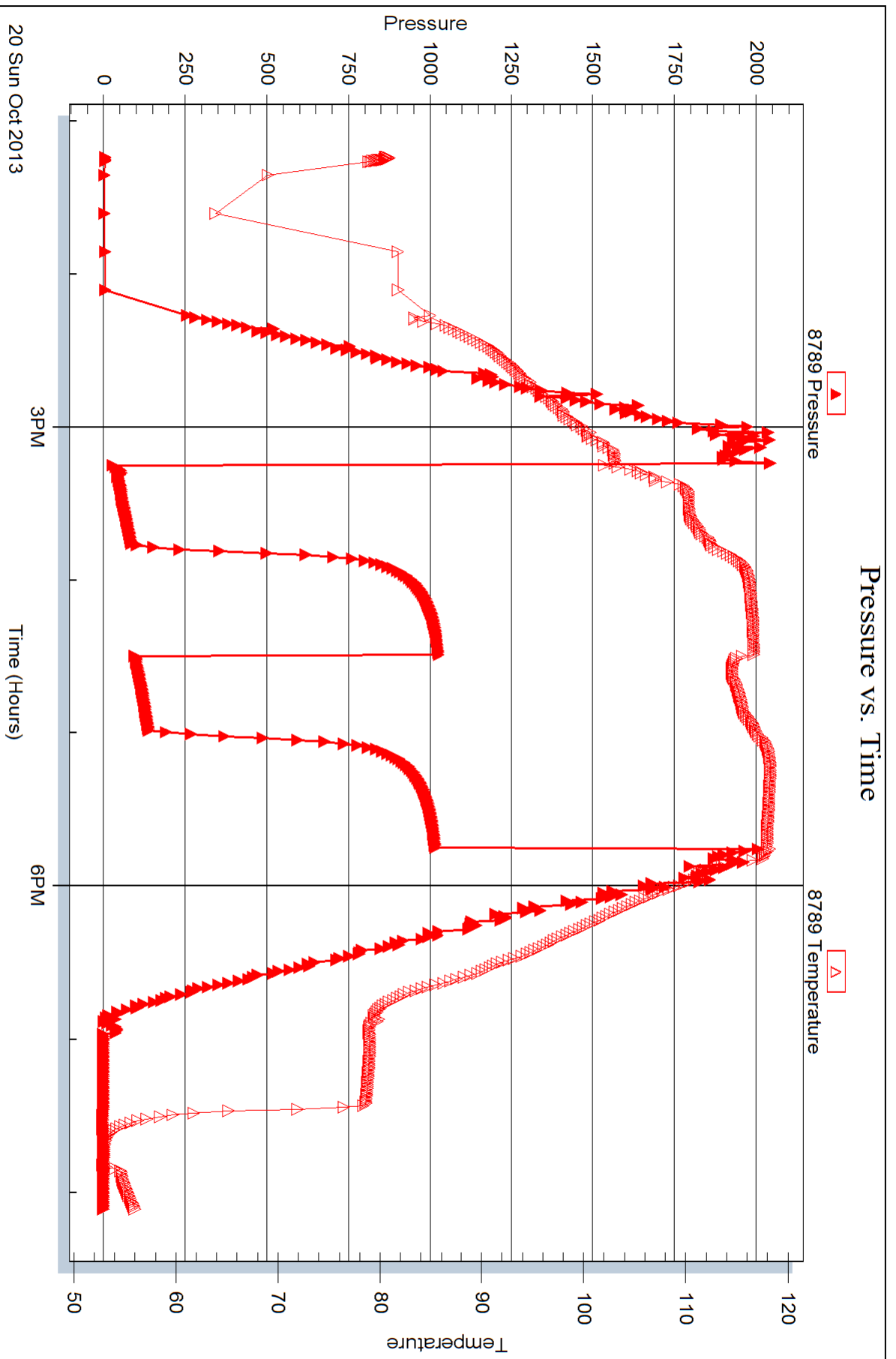
Serial #: 8789

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:

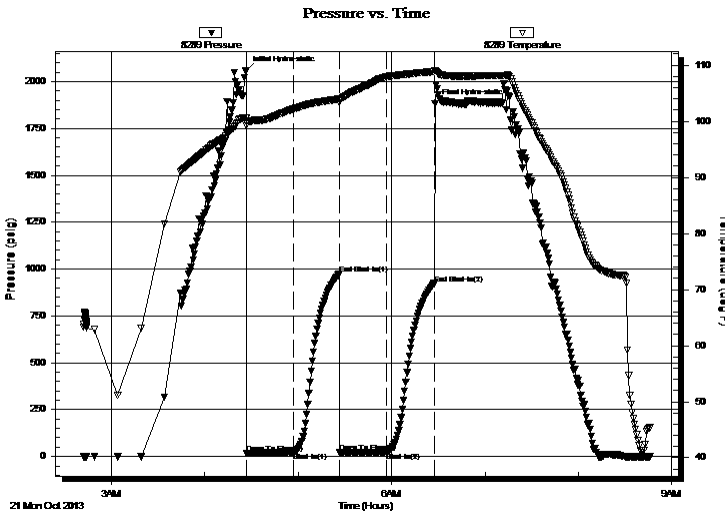
Formation: **LKC " K "**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 04:26:45  
Time Test Ended: 08:46:00  
Interval: **4029.00 ft (KB) To 4053.00 ft (KB) (TVD)**  
Total Depth: 4053.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Poor  
Test Type: Conventional Bottom Hole (Reset)  
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

**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:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

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

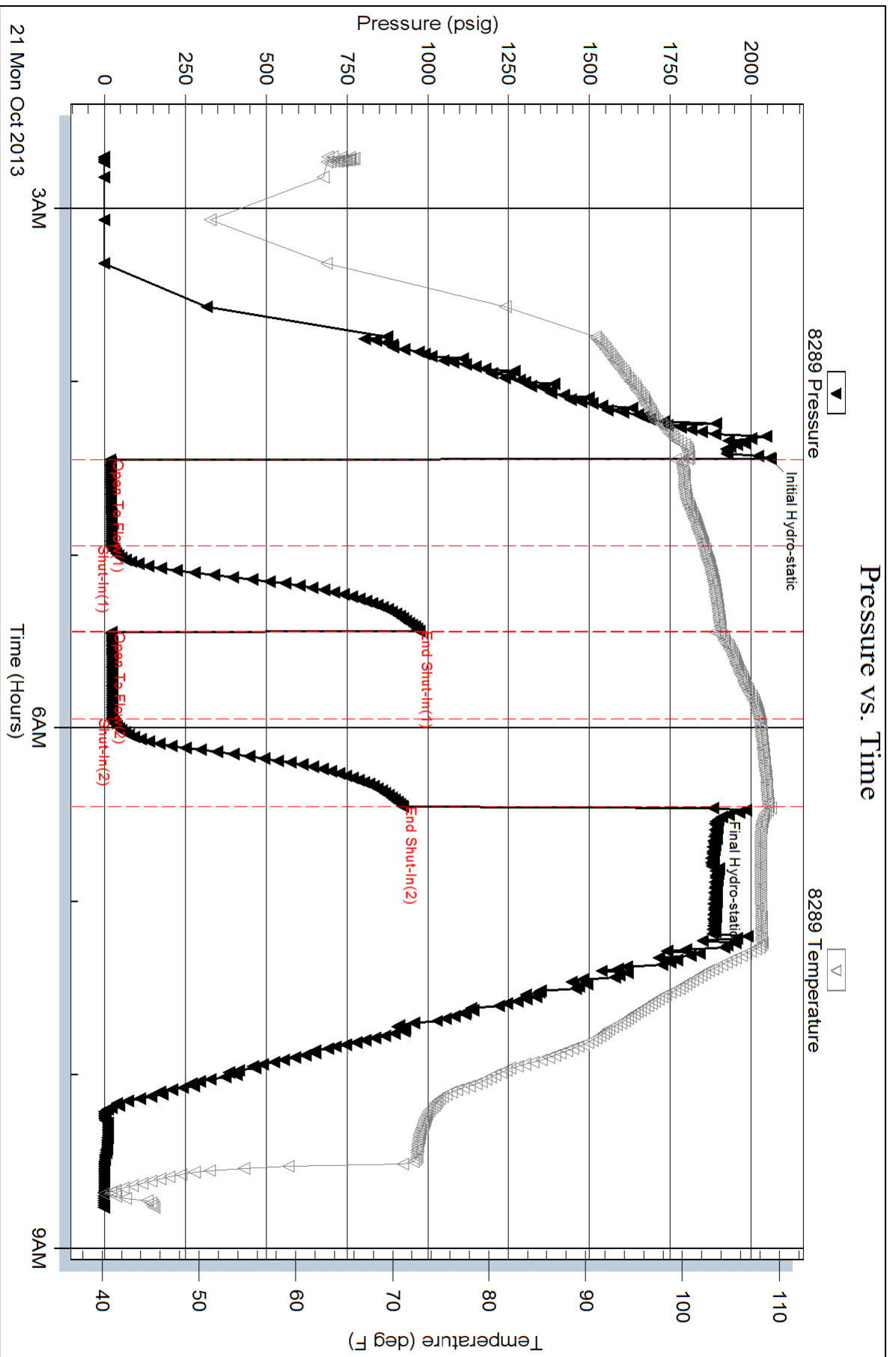
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1300.00 ppm			
Filter Cake: 2.00 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:



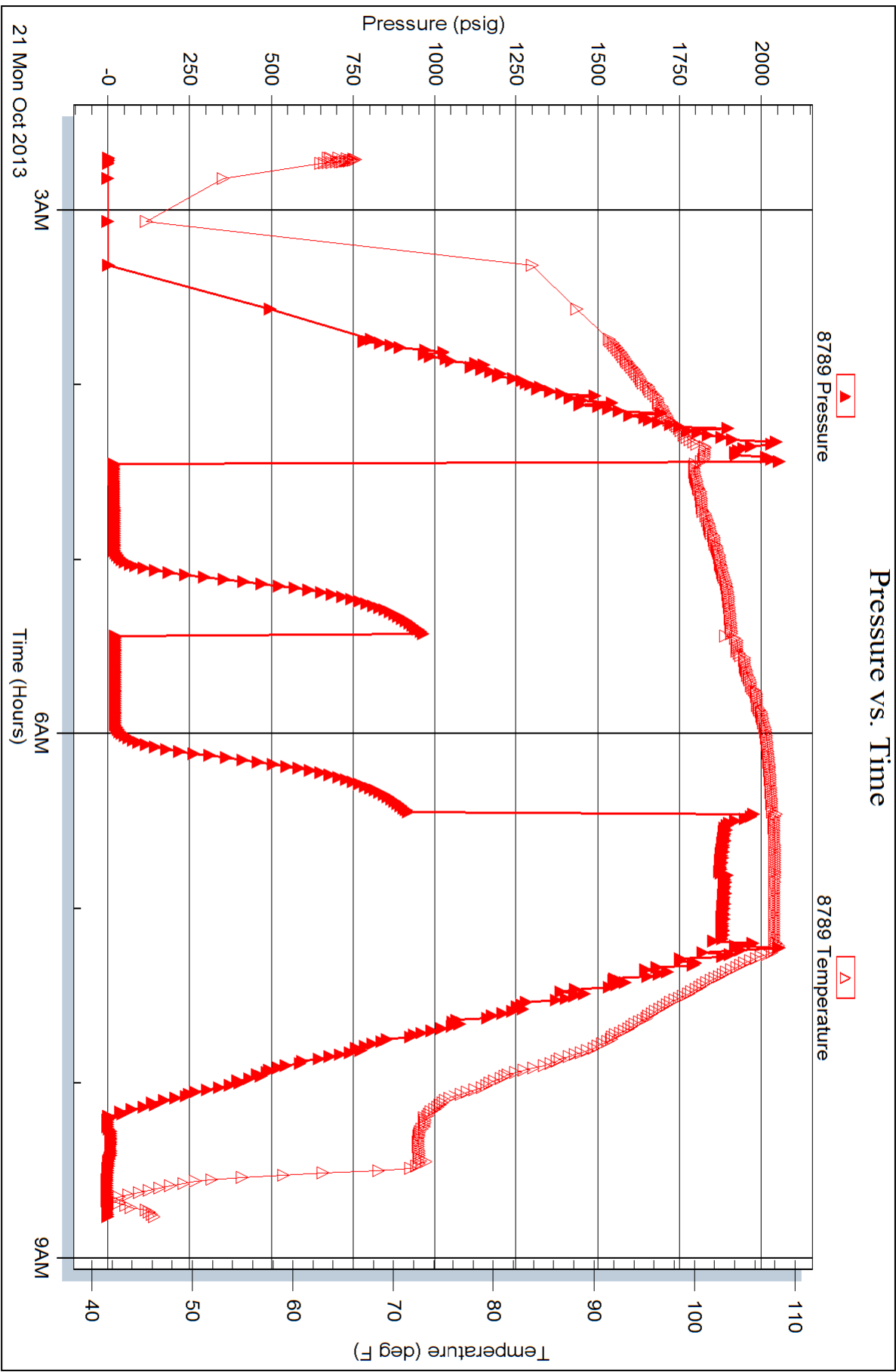
Serial #: 8789

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<sup>s</sup> Rge. 26<sup>w</sup> 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 IFP - No Blow Good Surgeon 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 \_\_\_\_\_

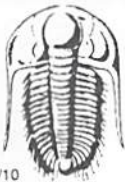
Sub Total 1670.30

Sub Total 1670.30 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_

Our Representative [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. 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

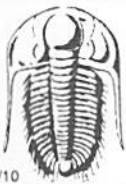
Blow Description IFP-BOB in 6min  
ISIP- No Blow  
FFP- BOB in 7min.  
FSIP- No Blow

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 \_\_\_\_\_  
 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 \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1770.30  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_

Initial Open 45  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 45  
 Sub Total 1770.30

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# 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<sup>s</sup> Rge. 26<sup>w</sup> 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 <u>2042</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>12:14</u>
(B) First Initial Flow <u>26</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>13:14</u>
(C) First Final Flow <u>90</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>15:15</u>
(D) Initial Shut-In <u>1032</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>17:45</u>
(E) Second Initial Flow <u>96</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>20:07</u>
(F) Second Final Flow <u>137</u>	<input checked="" type="checkbox"/> Mileage <u>195.30</u>	Comments
(G) Final Shut-In <u>1020</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2003</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 30  
 Final Shut-In 45

Sub Total 1770.30

Approved By \_\_\_\_\_ Our Representative [Signature]

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# 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<sup>s</sup> Rge. 26<sup>w</sup> 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]  
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# QUALITY CEMENT 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. 7539

Date	10-22-13	Sec.	13	Twp.	10	Range	26	County	Sheridan	State	KS	On Location		Finish	11:45 AM
Lease Delbert Walt Trust Well No. 13-3 Location St Peter 4 1/2 W Sinto															
Owner To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.															
Contractor	American eagle #2														
Type Job	Production string														
Hole Size	7 7/8														
Csg.	5 1/2														
Tbg. Size	4 118'														
Tool	Depth 4 110'														
Cement Left in Csg.	20.76														
Meas Line	Displace 99 3/4 bbl														
EQUIPMENT															
Pumptirk	No.	Cementor	Cody												Brett
Bulkirk	No.	Driver	Daug												
Bulkirk	No.	Driver	David												
JOB SERVICES & REMARKS															
Remarks:															
Rat Hole	- 30 <sup>5x</sup>														
Mouse Hole															
Centralizers	1 - 11, 47, 64, 74														
Baskets	48, 65, 75														
DV or Port Collar															
Handling	655														
Mileage	5 1/2 FLOAT EQUIPMENT														
Guide Shoe															
Centralizer	- 14 turbos														
Baskets	- 3														
AFU inserts															
Float Shoe	- 1														
Latch Down	- 1														
Rubber Plug	- 1														
Pumptirk Charge	prod long string														
Mileage	34														
Tax															
Discount															
Total Charge															

X Signature Bob Plante

# QUALITY 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. 7796

Date	10-12-13	Sec.	13	Twp.	10	Range	26	County	Sheridan	State	KS	On Location		Finish	10:15 PM									
Delbert Walt Trust													Location		St. Peter, Ks - 4 1/2 W 5th									
Lease													Well No.		13-3									
Contractor: American Eagle #2													Owner			To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Type Job: Surface													Charge To			H & C Oil Operating								
Hole Size: 12 1/4"													T.D.			223'								
Csg.:													8 5/8"			Depth			223'					
Tbg. Size													Depth											
Tool													Depth											
Cement Left in Csg.													15'			Shoe Joint			15'					
Meas Line													Displace			13 1/4			Cement Amount Ordered			170 Sx Common 3/8 CC		
<b>EQUIPMENT</b>																								
Pumptrk	15	No.	Cementer		Billy		Helper																	
Bulktrk	1	No.	Driver		Lonnie		AA																	
<del>Bulktrk</del>	<del>P.W.</del>	No.	Driver		Rick																			
<b>JOB SERVICES &amp; REMARKS</b>																								
Remarks:	Cement did Circulate																							
Rat Hole																								
Mouse Hole																								
Centralizers																								
Baskets																								
D/V or Port Collar																								
Handling	179																							
Mileage	FLOAT EQUIPMENT																							
Guide Shoe																								
Centralizer																								
Baskets																								
AFU Inserts																								
Float Shoe																								
Latch Down																								
Pumptrk Charge	Surface																							
Mileage	34																							
Signature: <i>Delbert Walt Trust</i>													Tax											
													Discount											
													Total Charge											