



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1219421  
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: \_\_\_\_\_

1219421

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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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 13-5
Doc ID	1219421

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	H & C Oil Operating Inc.
Well Name	Delbert Walt Trust 13-5
Doc ID	1219421

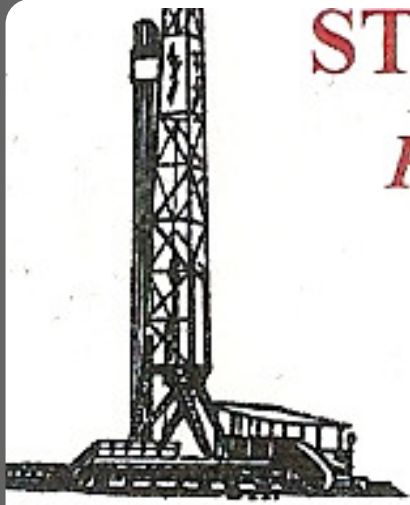
Tops

Name	Top	Datum
Top Anhydrite	2198	+380
Base Anhydrite	2232	+346
Topeka	3576	-998
Heebner	3790	-1212
Toronto	3810	-1232
Lansing	3834	-1256
Muncie Creek	3948	-1370
Stark	4021	-1443
Hushpuckney	4041	-1463
BKC	4063	-1485



# STEVEN P. MURPHY, P.G.

*Petroleum Geologist (KS #228)*



Cell 620.639.3030

Fax 785.387.2400

RR#1, Box 69

Otis, Kansas 67565

geomurphy@gbta.net

Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: Delbert Walt Trust #13-5

API: 15-179-21364-00-00

Location: Sheridan County

License Number: 8914

Spud Date: 7/8/14

Surface Coordinates: 1650' FNL & 2310' FEL (NW SW NE)

Section 13-T10S-R26W

Bottom Hole Coordinates: Vertical well, minimal deviation

Region: Kansas

Drilling Completed: 7/16/14

Ground Elevation (ft): 2571'

K.B. Elevation (ft): 2578'

Logged Interval (ft): 3450' To: TD

Total Depth (ft): LTD & RTD - 4110'

Formation: Topeka through BKC

Type of Drilling Fluid: Chemical (Mudco)

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

## OPERATOR

Company: H&C Oil Operating, Inc.

Address: P.O. Box 86  
Plainville, KS 67663

## GEOLOGIST

Name: Steven P. Murphy, PG (KS License #228)

Company: Consulting Petroleum Geologists

Address: 3365 CR 390  
Otis, KS 67565

## LogTops (Datum)

Open-hole logging was performed by Pioneer Log-Tech. The following are formation tops w/associated datums:

Anhydrite Top: 2198 (+380)

Anhydrite Base: 2232 (+346)

Topeka: 3576 (-998)

Heebner: 3790 (-1212)

Toronto: 3810 (-1232)

Lansing: 3834 (-1256)

Muncie Creek: 3948 (-1370)

Stark: 4021 (-1443)

Hushpuckney: 4041 (-1463)

BKC: 4063 (-1485)

**DSTs**

Drillstem testing was performed by Trilobite Testing (Oberlin shop):

**DST #1 3860-3888 (LKC "C-D")**  
 45:60:45:60  
 IF: Wk blow built to 2.25", NR  
 FF: Wk blow built to 2.75", NR  
 Recovery: 60' OCM (10%G, 14%O, 76%M)  
 IHP: 1942      FHP: 1901  
 IFP: 29-38      ISIP: 471  
 FFP: 40-43      FSIP: 110  
 BHT - 119 F

**DST #2 3942-4020 (LKC "H, I, J")**  
 45:60:45:60  
 IF: Built to 3.5", NR  
 FF: Built to 4.5", NR  
 Recovery: 62' GIP, 61' GOCM  
 (30%G, 10%O, 60%M)  
 IHP: 1976      FHP: 1908  
 IFP: 22-39      ISIP: 689  
 FFP: 40-61      FSIP: 622  
 BHT - 119 F

**DST #3 4018-4040 (LKC "K")**  
 30:30:30:30  
 IF: Built to 3/4", NR  
 FF: No blow, NR  
 Recovery: 5' Mud  
 IHP: 2055      FHP: 1917  
 IFP: 17-21      ISIP: 41  
 FF: 21-21      FSIP: 43  
 BHT - 116 F



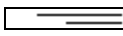

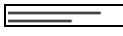
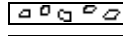

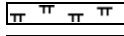
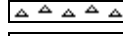


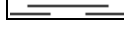

**COMMENTS**

Based on the results of the sample & log analysis, and DST results, it was recommended & agreed that pipe should be set to produce the LKC "J, H and possibly later the "D" zones.



Sincerely,


Steven P. Murphy, PG

**ROCK TYPES**

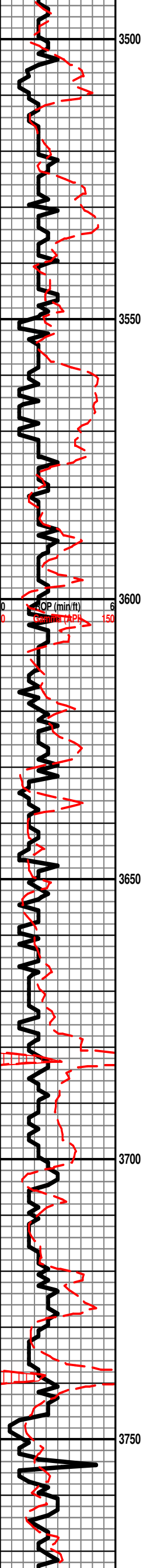
 Anhy	 Coal	 Lmst	 Shcol
 Bent	 Congl	 Meta	 Shgy
 Brec	 Dol	 Mrlst	 Sltst
 Cht	 Gyp	 Salt	 Ss
 Clyst	 Igne	 Shale	 Till

**OTHER SYMBOLS**

<b>OIL SHOW</b>	 Dead	<b>INTERVAL</b>	<b>EVENT</b>
 Even	 Gas	 Core	 Conn
 Spotted		 Dst	 Rft
 Ques			 Sidewall

Curve Track 1 ROP (min/ft) ——— Gamma (API) - - - -	Depth	Lithology	Oil Shows	Geological Descriptions	REMARKS
				Bit trip @ 3465'	American Eagle Rig #2 MIRU 7/8/2014  8-5/8" Surface casing set @ 262' Deviation @ 262' - 1/2 deg  Bit trip @ 3456' Strap - 1.25' short Deviation - 3/4 deg  NOTE: The following tops are picked from samples & ROP. Please refer to the header

samples & ROP. Please refer to the header section for the log tops:



TOPEKA 3576 (-998)

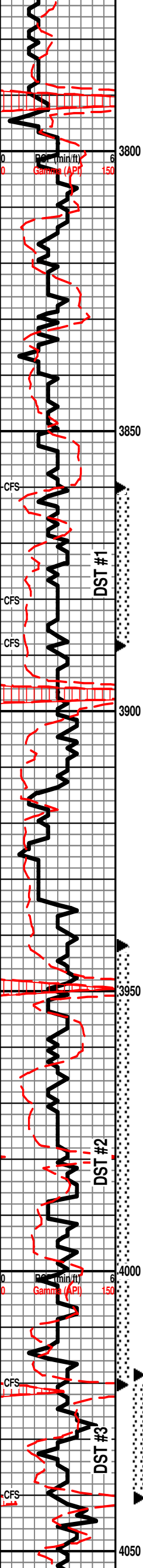
LS: wht-tan, fxl n, oolitic, sl foss, sl chalky, fr  
inxln por, NS

(Begin wet & dry samples @ 3750')

LS: crm-tan, vfxln, oolitic, sl foss, chalky,  
dense, NS

LS: as above





LS: crm-brn-gry, vfxln, dense, chalky, NS

LS: as above

SH: blk, carb

HEEBNER 3793 (-1215)

SH: gry-grm-blk

TORONTO 3814 (-1236)

LS: wht-gry, sl cherty, f-vfxln, oolitic, fr ppt por in pt, mostly dense, rare dead stn, nsfo, no odor

SH: gry-grm-red

LANSING 3834 (-1256)

LS: wht-gry, fxl, chalky, mostly dense, rare pr-fr ppt por, ssfo on brk, spotty lite stn, sl odor

Short trip 21 stands @ 3888' prior to DST #1  
Deviation @ 3888' - 1/4 deg

LS: wht-tan-gry, vfxln, dense, sl chalky, NS

LS: wht-tan-gry, f-vfxln, oolitic, mostly dense, rare pr ppt por, vssfo on brk, spotty rare stn, no odor

SH: gry-grm-blk-red-brn

DST #1 3860-3888 (LKC "C-D")  
45:60:45:60  
IF: Wk blow built to 2.25", NR  
FF: Wk blow built to 2.75", NR  
Recovery: 60' OCM (10%G, 14%O, 76%M)  
IHP: 1942 FHP: 1901  
IFP: 29-38 ISIP: 471  
FFP: 40-43 FSIP: 110  
BHT - 119 F

LS: crm-tan, fxl, oolitic, sl foss, much dense, rare pr-fr vug & ppt por, fsfo, spotty stn. fr odor

SH: gry-grm-brn

LS: wht-tan, f-vfxln, much dense, some fr-gd vug por, fsfo, spotty lite stn, str odor

LS: wht-crm-gry, vfxln, dense, cherty, NS

LS: crm-tan-gry, vfxln, dense, sl cherty, NS

SH: gry-grm-red

LS: wht-crm, fxl-sucros, fr inxln por, ssfo, spotty lite stn, fr odor

LS: wht-crm, fxl, oolitic, fr vug por, ssfo, spotty lite stn, fr odor

LS: wht-gry, vfxln, dense, NS

MUNCIE CREEK 3949 (-1371)

SH: blk, carb

SH: gry-grm-brn-red-blk

LS: wht-brn, fxl, foss, sl oolitic, much dense, some pr-fr inxln/vug por, ssfo on brk, spotty stn, sl odor

DST #2 3942-4020 (LKC "H, I, J")  
45:60:45:60  
IF: Built to 3.5", NR  
FF: Built to 4.5", NR  
Recovery: 62' GIP, 61' GOCM (30%G, 10%O, 60%M)  
IHP: 1976 FHP: 1908  
IFP: 22-39 ISIP: 689  
FFP: 40-61 FSIP: 622  
BHT - 119 F

LS: as above, mostly dense

SH: gry-grm-brn

LS: crm-tan-brn, vfxln, dense, sl foss, nsfo, tr stn, no odor

SH: gry-grm-red-blk

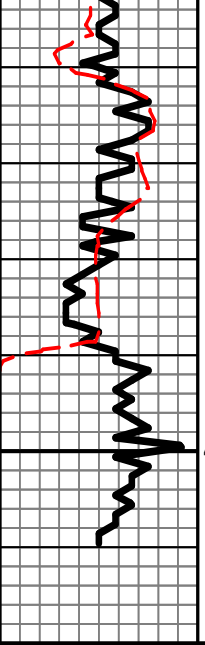
LS: wht, f-mxln, sl oolitic, fr-gd inxln/vug por, vssfo, spotty stn, sl odor

DST #3 4018-4040 (LKC "K")  
30:30:30:30  
IF: Built to 3/4", NR  
FF: No blow, NR  
Recovery: 5' Mud  
IHP: 2055 FHP: 1917  
IFP: 17-21 ISIP: 41  
FFP: 21-21 FSIP: 43  
BHT - 116 F

SH: blk, carb

LS: wht-gry, f-vfxln, oolitic in pt, pr ppt/vug por, ssfo, spotty dk stn, sl odor

SH: blk-gry-brm-grm



4100

LS: crm-tan, vfln, dense, oolitic, sl chalky, NS

BKC 4062 (-1484)

SH: gry-grn-red-blk

SH: as above

SH: as above

LS: crm-gry, vfxln, dense, NS

RTD - 4110'

LTD - 4110'



## DRILL STEM TEST REPORT

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

PO Box 86  
Plainville, KS 67663

ATTN: Steve Murphy

**13-10-26 Sheridan,KS**

**Delbert Walt Trust #13-5**

Start Date: 2014.07.13 @ 16:50:00

End Date: 2014.07.14 @ 00:06:15

Job Ticket #: 56943                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.07.16 @ 16:44:31

H & C Oil Operating, Inc.

Delbert Walt Trust #13-5

13-10-26 Sheridan,KS

DST # 1

LKC "C - D"

2014.07.13



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

H & C Oil Operating, Inc.

**Delbert Walt Trust #13-5**

PO Box 86  
Plainville, KS 67663

**13-10-26 Sheridan,KS**

ATTN: Steve Murphy

Job Ticket: 56943

**DST#: 1**

Test Start: 2014.07.13 @ 16:50:00

## GENERAL INFORMATION:

Formation: **LKC "C - D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:00:00

Time Test Ended: 00:06:15

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 57

**Interval: 3860.00 ft (KB) To 3888.00 ft (KB) (TVD)**

Reference Elevations: 2578.00 ft (KB)

Total Depth: 3888.00 ft (KB) (TVD)

2571.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8671**

**Inside**

Press@RunDepth: 43.26 psig @ 3861.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.13

End Date:

2014.07.14

Last Calib.:

2014.07.14

Start Time:

16:50:05

End Time:

00:06:14

Time On Btm:

2014.07.13 @ 18:59:30

Time Off Btm:

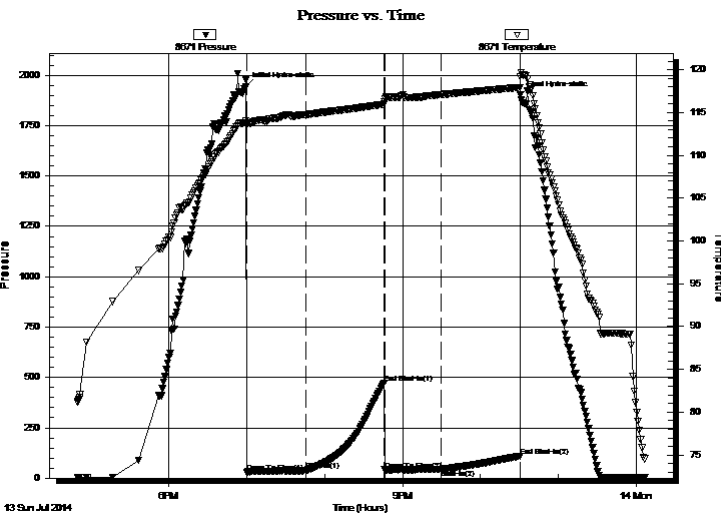
2014.07.13 @ 22:30:30

TEST COMMENT: 45 - IF: 1" Blow at open, built to 2 1/4"

60 - IS: No blow back

45 - FF: Blow built to 2 3/4"

60 - FS: No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1942.47	114.00	Initial Hydro-static
1	28.87	113.52	Open To Flow (1)
46	37.79	114.75	Shut-In(1)
107	470.90	115.97	End Shut-In(1)
107	39.55	116.59	Open To Flow (2)
151	43.26	117.08	Shut-In(2)
211	110.08	117.94	End Shut-In(2)
211	1901.13	119.22	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 76% m, 14% o, 10% g	0.57

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

H & C Oil Operating, Inc.

**Delbert Walt Trust #13-5**

PO Box 86  
Plainville, KS 67663

**13-10-26 Sheridan,KS**

ATTN: Steve Murphy

Job Ticket: 56943 **DST#: 1**

Test Start: 2014.07.13 @ 16:50:00

## GENERAL INFORMATION:

Formation: **LKC "C - D"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 19:00:00  
 Time Test Ended: 00:06:15  
 Interval: **3860.00 ft (KB) To 3888.00 ft (KB) (TVD)**  
 Total Depth: 3888.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: James Winder  
 Unit No: 57  
 Reference Elevations: 2578.00 ft (KB)  
 2571.00 ft (CF)  
 KB to GR/CF: 7.00 ft

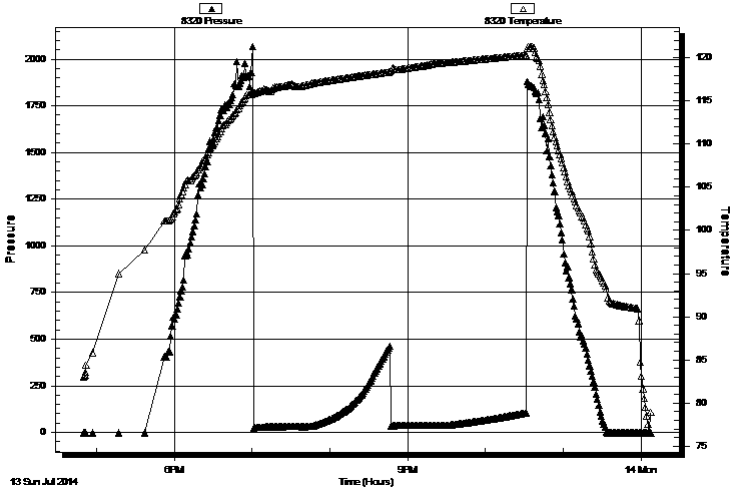
**Serial #: 8320**

**Outside**

Press@RunDepth: psig @ 3861.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.07.13 End Date: 2014.07.14 Last Calib.: 2014.07.14  
 Start Time: 16:50:05 End Time: 00:07:14 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 45 - IF: 1" Blow at open, built to 2 1/4"  
 60 - IS: No blow back  
 45 - FF: Blow built to 2 3/4"  
 60 - FS: No blow back

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 76% m, 14% o, 10% g	0.57

## 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 #13-5**

PO Box 86  
Plainville, KS 67663

**13-10-26 Sheridan, KS**

ATTN: Steve Murphy

Job Ticket: 56943

**DST#: 1**

Test Start: 2014.07.13 @ 16:50:00

## Tool Information

Drill Pipe:	Length: 3810.00 ft	Diameter: 3.80 inches	Volume: 53.44 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 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: 65000.00 lb
			<u>Total Volume: 53.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3860.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Rig changed weight indicator during test

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3837.00	
Hydraulic tool	5.00			3842.00	
Jars	5.00			3847.00	
Safety Joint	3.00			3850.00	
Packer	5.00			3855.00	28.00 Bottom Of Top Packer
Packer	5.00			3860.00	
Stubb	1.00			3861.00	
Recorder	0.00	8671	Inside	3861.00	
Recorder	0.00	8320	Outside	3861.00	
Perforations	24.00			3885.00	
Bullnose	3.00			3888.00	28.00 Bottom Packers & Anchor

**Total Tool Length: 56.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

H & C Oil Operating, Inc.

**Delbert Walt Trust #13-5**

PO Box 86  
Plainville, KS 67663

**13-10-26 Sheridan, KS**

Job Ticket: 56943

**DST#: 1**

ATTN: Steve Murphy

Test Start: 2014.07.13 @ 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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OCM 76%m, 14%o, 10%g	0.568

Total Length: 60.00 ft      Total Volume: 0.568 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

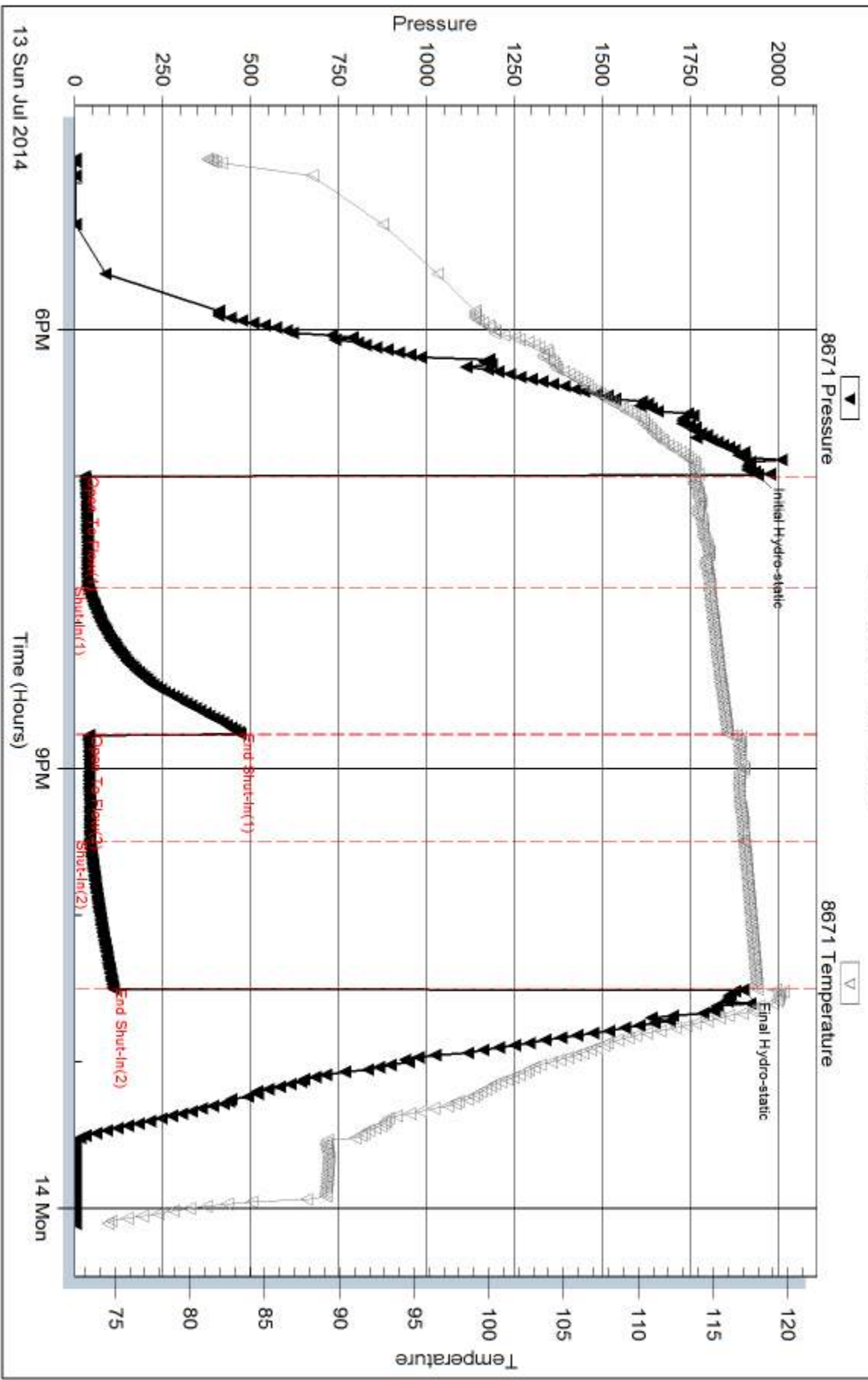
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



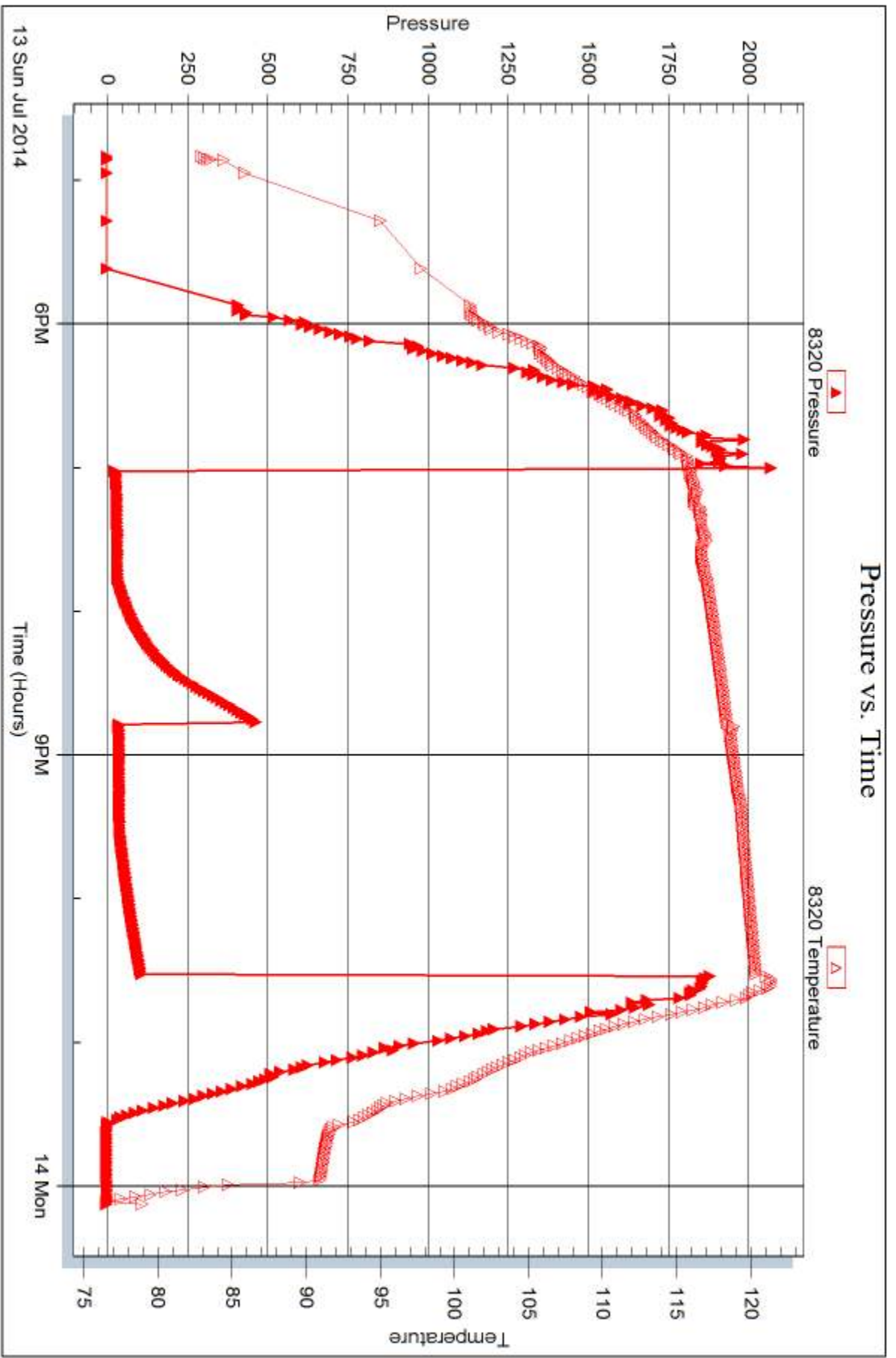


Serial #: 8320

Outside H & C Oil Operating, Inc.

13-10-26 Sheridan, KS

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 56943

Printed: 2014.07.16 @ 16:44:32



## DRILL STEM TEST REPORT

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

PO Box 86  
Plainville, KS 67663

ATTN: Steve Murphy

**13-10-26 Sheridan,KS**

**Delbert Walt Trust #13-5**

Start Date: 2014.07.14 @ 13:55:00

End Date: 2014.07.14 @ 21:23:30

Job Ticket #: 58360                      DST #: 2

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

Printed: 2014.07.16 @ 16:43:33



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

H & C Oil Operating, Inc.

**Delbert Walt Trust #13-5**

PO Box 86  
Plainville, KS 67663

**13-10-26 Sheridan,KS**

ATTN: Steve Murphy

Job Ticket: 58360

**DST#: 2**

Test Start: 2014.07.14 @ 13:55:00

## GENERAL INFORMATION:

Formation: **LKC "H-J"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:48:15  
 Time Test Ended: 21:23:30  
 Interval: **3942.00 ft (KB) To 4020.00 ft (KB) (TVD)**  
 Total Depth: 4020.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brandon Quintana  
 Unit No: 57  
 Reference Elevations: 2578.00 ft (KB)  
 2571.00 ft (CF)  
 KB to GR/CF: 7.00 ft

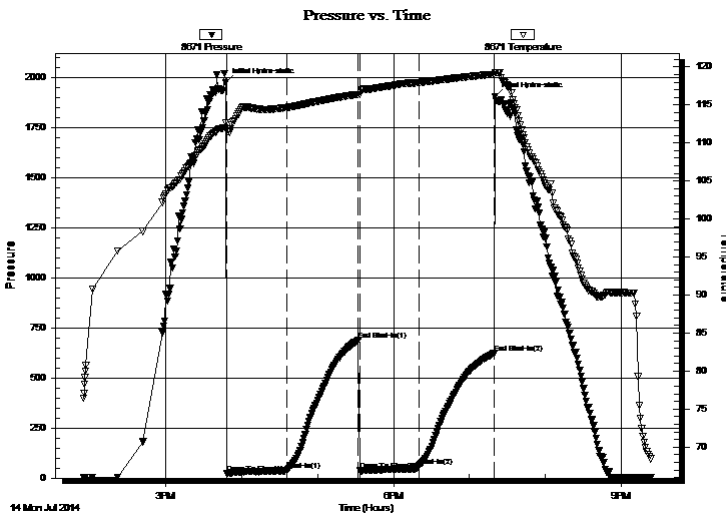
## Serial #: 8671

Inside

Press@RunDepth: 61.63 psig @ 3943.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.07.14 End Date: 2014.07.14 Last Calib.: 2014.07.14  
 Start Time: 13:55:05 End Time: 21:23:29 Time On Btm: 2014.07.14 @ 15:47:15  
 Time Off Btm: 2014.07.14 @ 19:20:15

TEST COMMENT: 45 - IF - Opened w/ surface blow , built to 3"  
 60 - ISI - No Return  
 45 - FF - Opened w/ surface blow , built to 4 1/2"  
 60 - FSI - No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1976.38	112.69	Initial Hydro-static
1	22.61	111.83	Open To Flow (1)
48	39.19	114.65	Shut-In(1)
105	689.38	116.40	End Shut-In(1)
106	40.39	116.40	Open To Flow (2)
153	61.63	117.94	Shut-In(2)
212	622.59	119.04	End Shut-In(2)
213	1908.12	119.28	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
61.00	GOCM 60% m, 30% g, 10% o	0.58

## 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

ATTN: Steve Murphy

**Delbert Walt Trust #13-5**

**13-10-26 Sheridan, KS**

Job Ticket: 58360

**DST#: 2**

Test Start: 2014.07.14 @ 13:55:00

## GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:48:15

Time Test Ended: 21:23:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 57

**Interval: 3942.00 ft (KB) To 4020.00 ft (KB) (TVD)**

Total Depth: 4020.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2578.00 ft (KB)

2571.00 ft (CF)

KB to GR/CF: 7.00 ft

**Serial #: 8320 Outside**

Press@RunDepth: psig @ 3943.00 ft (KB)

Start Date: 2014.07.14 End Date: 2014.07.14

Start Time: 13:55:05 End Time: 21:24:59

Capacity: 8000.00 psig

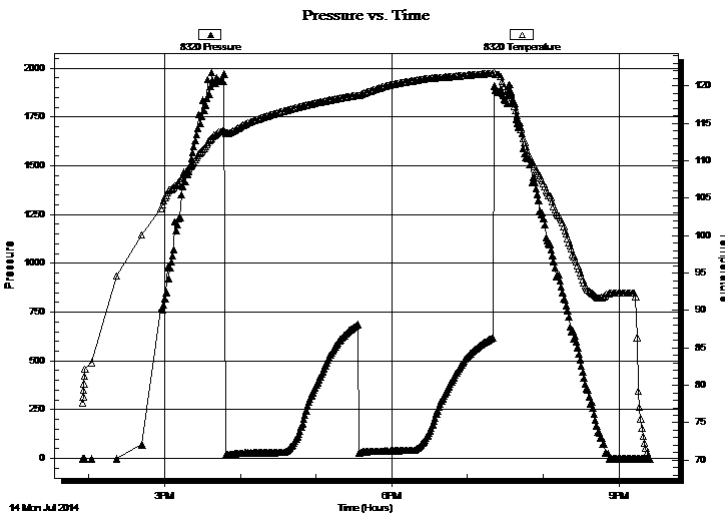
Last Calib.: 2014.07.14

Time On Btm:

Time Off Btm:

TEST COMMENT: 45 - IF - Opened w/ surface blow , built to 3"  
60 - ISI - No Return  
45 - FF - Opened w/ surface blow , built to 4 1/2"  
60 - FSI - No Return

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
61.00	GOCM 60% m, 30% g, 10% o	0.58

## 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 #13-5**

PO Box 86  
Plainville, KS 67663

**13-10-26 Sheridan, KS**

Job Ticket: 58360

**DST#: 2**

ATTN: Steve Murphy

Test Start: 2014.07.14 @ 13:55:00

## Tool Information

Drill Pipe:	Length: 3903.00 ft	Diameter: 3.80 inches	Volume: 54.75 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 54.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	3942.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	106.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3919.00	
Hydraulic tool	5.00			3924.00	
Jars	5.00			3929.00	
Safety Joint	3.00			3932.00	
Packer	5.00			3937.00	28.00 Bottom Of Top Packer
Packer	5.00			3942.00	
Stubb	1.00			3943.00	
Recorder	0.00	8671	Inside	3943.00	
Recorder	0.00	8320	Outside	3943.00	
Perforations	10.00			3953.00	
Change Over Sub	1.00			3954.00	
Drill Pipe	62.00			4016.00	
Change Over Sub	1.00			4017.00	
Bullnose	3.00			4020.00	78.00 Bottom Packers & Anchor

**Total Tool Length: 106.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H & C Oil Operating, Inc.

**Delbert Walt Trust #13-5**

PO Box 86  
Plainville, KS 67663

**13-10-26 Sheridan, KS**

Job Ticket: 58360

**DST#: 2**

ATTN: Steve Murphy

Test Start: 2014.07.14 @ 13:55:00

## 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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
61.00	GOCM 60%m, 30%g, 10%o	0.582

Total Length: 61.00 ft      Total Volume: 0.582 bbl

Num Fluid Samples: 0

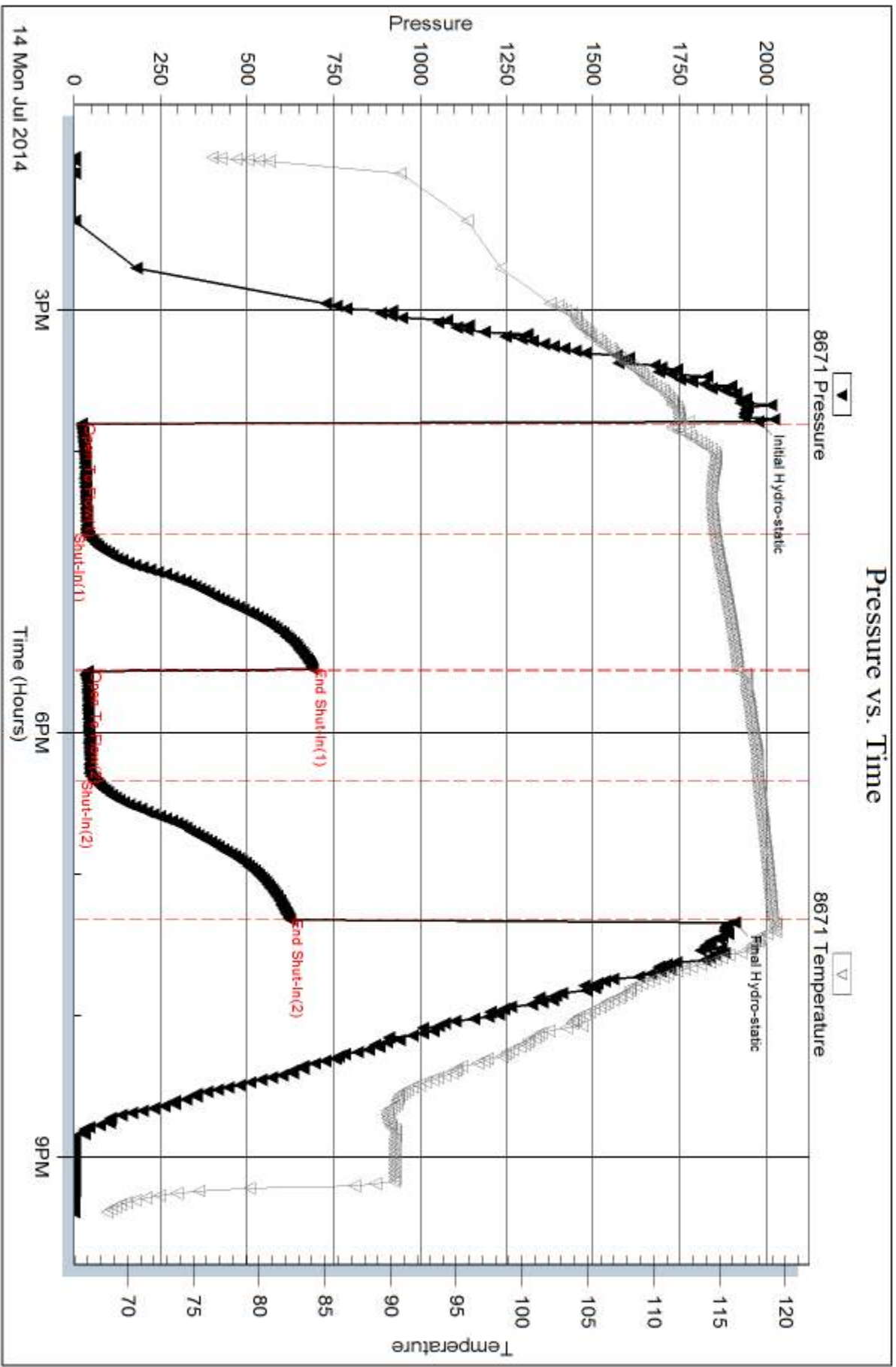
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

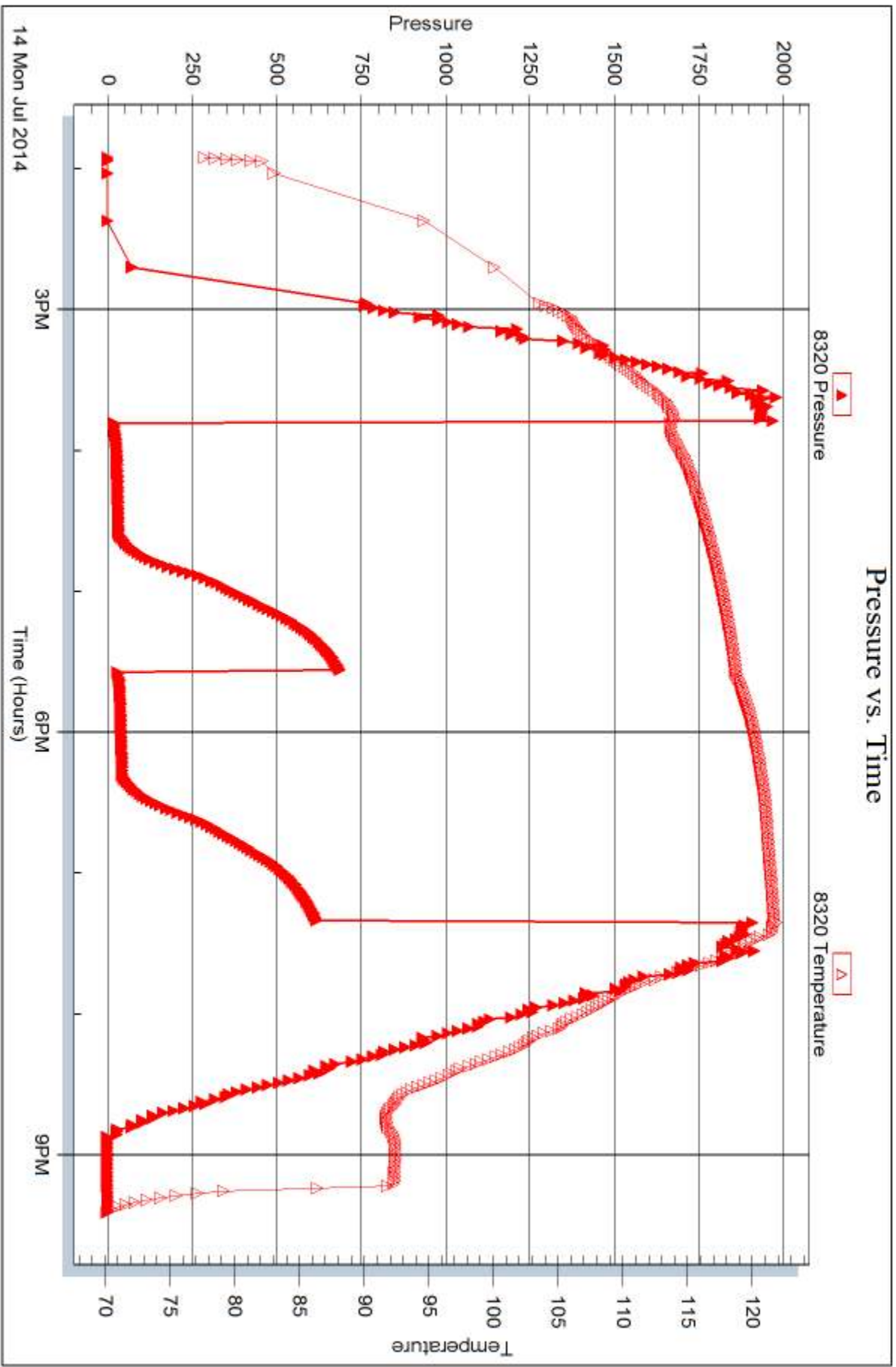


Serial #: 8320

Outside H & C Oil Operating, Inc.

13-10-26 Sheridan, KS

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 58360

Printed: 2014.07.16 @ 16:43:34





## DRILL STEM TEST REPORT

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

PO Box 86  
Plainville, KS 67663

ATTN: Steve Murphy

**13-10-26 Sheridan,KS**

**Delbert Walt Trust #13-5**

Start Date: 2014.07.15 @ 04:37:00

End Date: 2014.07.15 @ 10:17:45

Job Ticket #: 58361                      DST #: 3

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

Printed: 2014.07.16 @ 15:49:05

H & C Oil Operating, Inc.

Delbert Walt Trust #13-5

13-10-26 Sheridan,KS

DST # 3

LKC "K"

2014.07.15



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

H & C Oil Operating, Inc.

**Delbert Walt Trust #13-5**

PO Box 86  
Plainville, KS 67663

**13-10-26 Sheridan,KS**

ATTN: Steve Murphy

Job Ticket: 58361

**DST#: 3**

Test Start: 2014.07.15 @ 04:37:00

## GENERAL INFORMATION:

Formation: **LKC "K"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 06:41:30  
 Time Test Ended: 10:17:45  
 Interval: **4018.00 ft (KB) To 4040.00 ft (KB) (TVD)**  
 Total Depth: 40404.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brandon Quintana  
 Unit No: 57  
 Reference Elevations: 2578.00 ft (KB)  
 2571.00 ft (CF)  
 KB to GR/CF: 7.00 ft

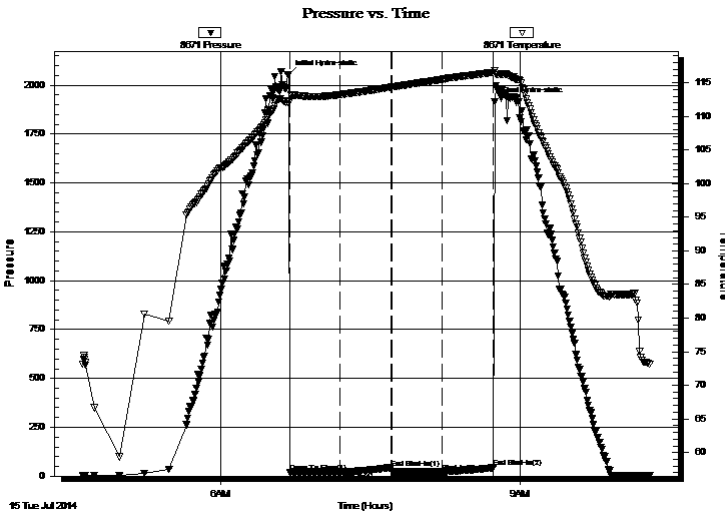
## Serial #: 8671

Inside

Press@RunDepth: 21.89 psig @ 4019.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.07.15 End Date: 2014.07.15 Last Calib.: 2014.07.15  
 Start Time: 04:37:05 End Time: 10:17:44 Time On Btm: 2014.07.15 @ 06:40:45  
 Time Off Btm: 2014.07.15 @ 08:44:30

TEST COMMENT: 30 - IF - Opened w/ surface blow , built to 3/4"  
 30 - ISI - No Return  
 30 - FF - No Blow  
 30 - FSI - No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2055.84	112.37	Initial Hydro-static
1	17.46	112.17	Open To Flow (1)
31	21.26	113.23	Shut-In(1)
62	41.13	114.36	End Shut-In(1)
63	21.18	114.37	Open To Flow (2)
93	21.89	115.51	Shut-In(2)
123	43.67	116.56	End Shut-In(2)
124	1917.31	116.85	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% mud	0.02

## 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 #13-5**

PO Box 86  
Plainville, KS 67663

**13-10-26 Sheridan, KS**

Job Ticket: 58361

**DST#: 3**

ATTN: Steve Murphy

Test Start: 2014.07.15 @ 04:37:00

## Tool Information

Drill Pipe:	Length: 3965.00 ft	Diameter: 3.80 inches	Volume: 55.62 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 55.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4018.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	50.00 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			3995.00	
Hydraulic tool	5.00			4000.00	
Jars	5.00			4005.00	
Safety Joint	3.00			4008.00	
Packer	5.00			4013.00	28.00 Bottom Of Top Packer
Packer	5.00			4018.00	
Stubb	1.00			4019.00	
Recorder	0.00	8671	Inside	4019.00	
Recorder	0.00	8320	Outside	4019.00	
Perforations	18.00			4037.00	
Bullnose	3.00			4040.00	22.00 Bottom Packers & Anchor

**Total Tool Length: 50.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H & C Oil Operating, Inc.

**Delbert Walt Trust #13-5**

PO Box 86  
Plainville, KS 67663

**13-10-26 Sheridan,KS**

Job Ticket: 58361

**DST#: 3**

ATTN: Steve Murphy

Test Start: 2014.07.15 @ 04:37:00

## 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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100%mud	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

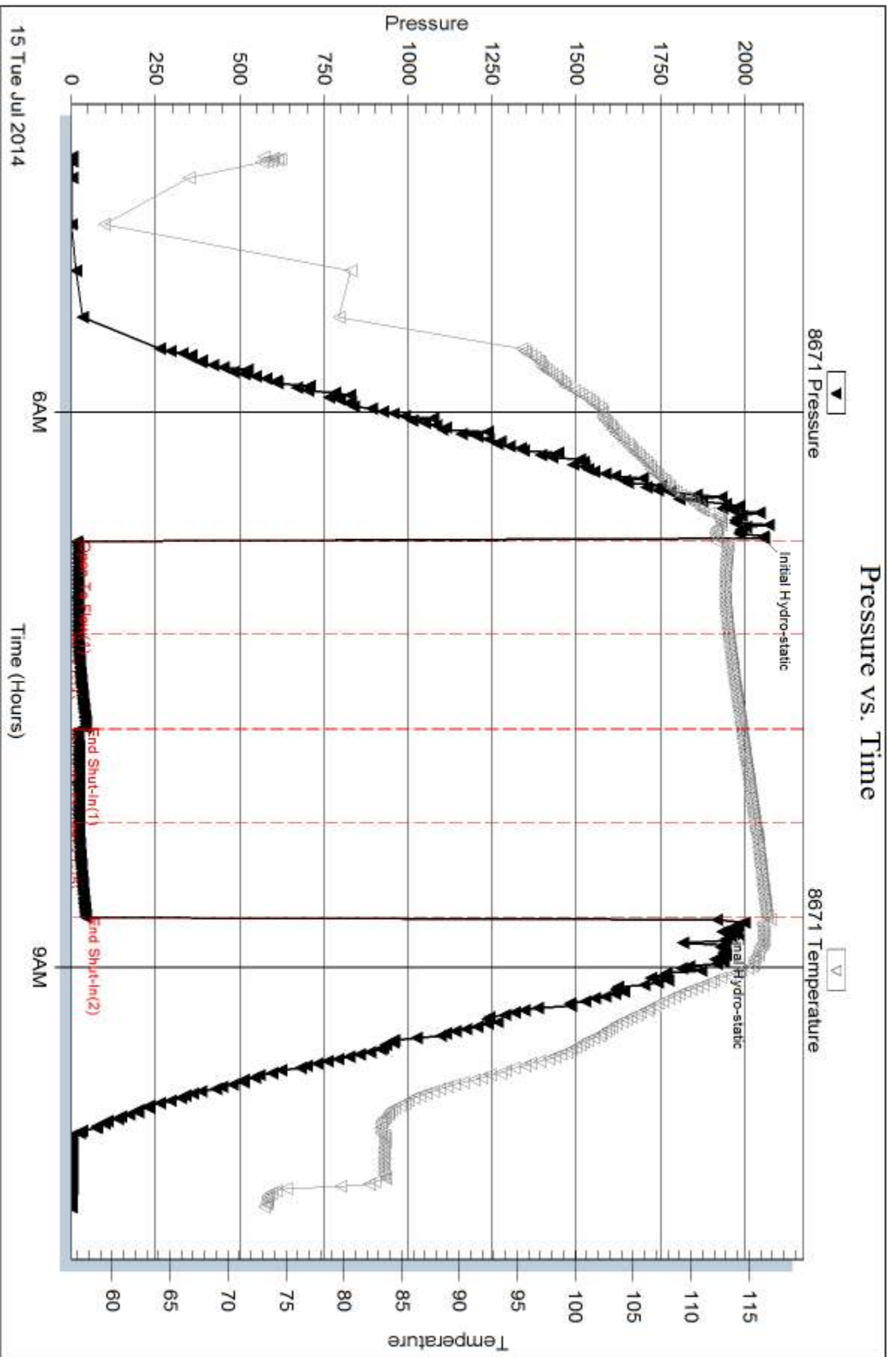
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

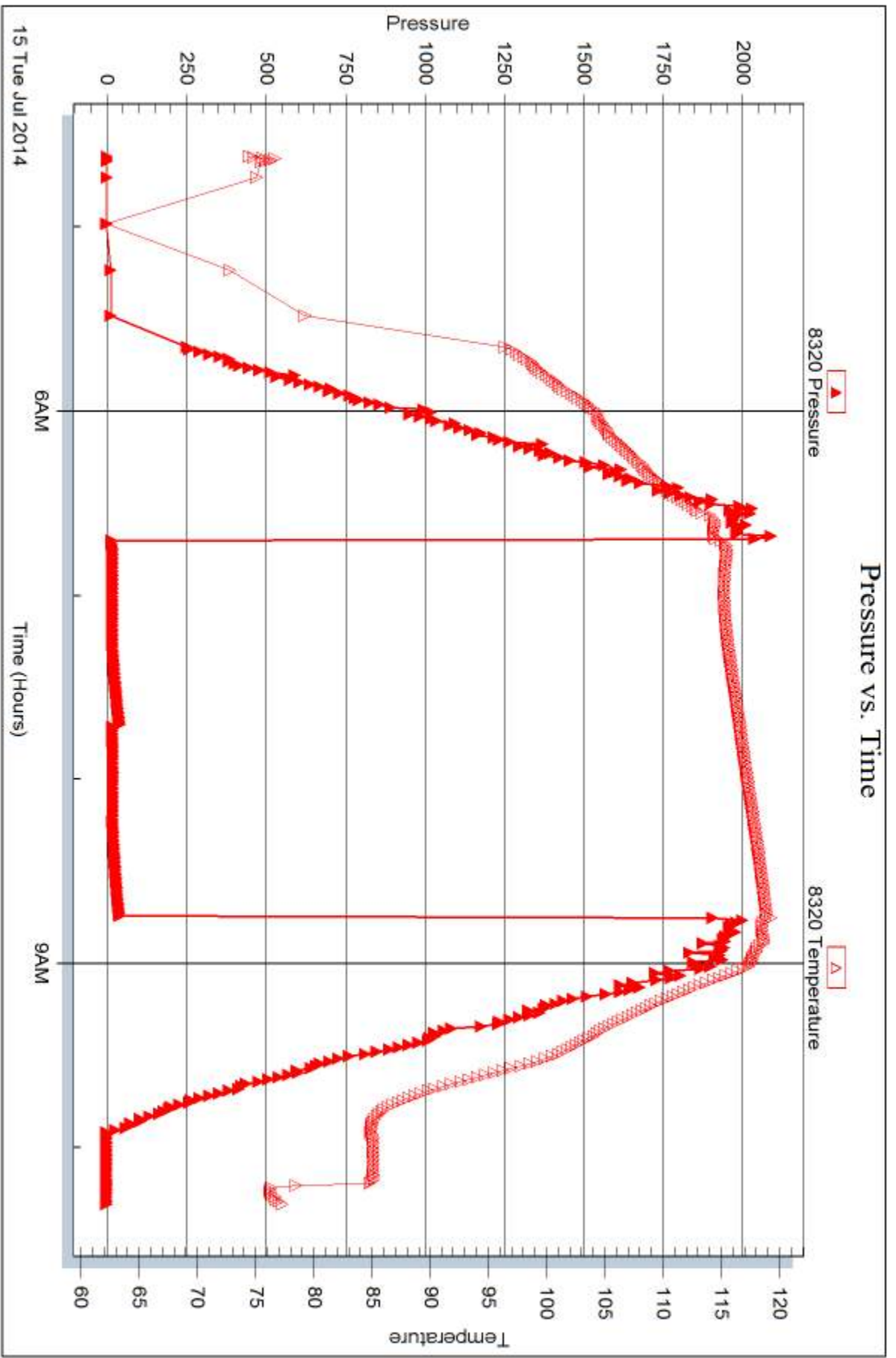


Serial #: 8320

Outside H & C Oil Operating, Inc.

13-10-26 Sheridan, KS

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 58361

Printed: 2014.07.16 @ 15:49:07



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 56943

Well Name & No. Delbert Walt Trust #13-5 Test No. 1 Date 7-13-14  
 Company H & C Oil Operating Inc Elevation 2578 KB 2571 GL  
 Address PO Box 86 Plainville, KS 67663  
 Co. Rep / Geo. Steve Murphy Rig American Eagle #2  
 Location: Sec. 13 Twp. 10s Rge. 26w Co. Sheridan State KS

Interval Tested 3860 - 3888 Zone Tested LKC "C-D"  
 Anchor Length 28 Drill Pipe Run 3810 Mud Wt. 9.2  
 Top Packer Depth 3855 Drill Collars Run 30 Vis 48  
 Bottom Packer Depth 3860 Wt. Pipe Run - WL 7.2  
 Total Depth 3888 Chlorides 1400 ppm System LCM -  
 Blow Description IF: 1" Blow at open, built to 2 1/4"  
ISI: No blowback  
FF: Blow built to 2 3/4"  
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>OCM</u>	<u>10</u>	<u>14</u>	<u>76</u>	<u>76</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 60 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1942  Test 1150 T-On Location 16:00  
 (B) First Initial Flow 29  Jars 250 T-Started 16:50  
 (C) First Final Flow 38  Safety Joint 75 T-Open 19:00  
 (D) Initial Shut-In 471  Circ Sub \_\_\_\_\_ T-Pulled 22:30  
 (E) Second Initial Flow 40  Hourly Standby \_\_\_\_\_ T-Out 00:05  
 (F) Second Final Flow 43  Mileage 128RT 198.40 Comments Tool slid 5' to bottom  
 (G) Final Shut-In 110  Sampler \_\_\_\_\_ before open - lost 1' mud at  
 (H) Final Hydrostatic 1901  Straddle \_\_\_\_\_ open  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_

Initial Open 45  
 Initial Shut-In 60  
 Final Flow 45  
 Final Shut-In 60

Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Sub Total 1673.40

Sub Total 0  
 Total 1673.40  
 MP/DST Disc't \_\_\_\_\_

Approved By [Signature] Our Representative James Winder  
 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. 58360

Well Name & No. Delbert Walt Trust #13-5 Test No. 2 Date 7-14-14  
 Company H+C Oil Operating, Inc. Elevation 2578 KB 2571 GL  
 Address PO Box 86 Plainville, KS 67663  
 Co. Rep / Geo. Steve Murphy Rig American Eagle #2  
 Location: Sec. 13 Twp. 10S Rge. 26W Co. Sheridan State KS

Interval Tested 3942-4020 Zone Tested LKC "H,I,J"  
 Anchor Length 78' Drill Pipe Run 3903 Mud Wt. 9.2  
 Top Packer Depth 3937 Drill Collars Run 30' Vis 5Z  
 Bottom Packer Depth 3942 Wt. Pipe Run - WL 6.4  
 Total Depth 4020 Chlorides 1500 ppm System LCM Tr

Blow Description IF- Opened w/ surface blow, built to 3"  
ISI- No Return  
FF- Opened w/ surface blow, built to 4 1/2"  
FSI- No Return

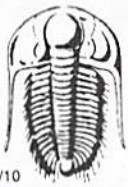
Rec	Feet of	%gas	%oil	%water	%mud
<u>61</u>	<u>Feet of 6 OCM</u>	<u>30</u>	<u>10</u>	<u></u>	<u>60</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>62</u>	Feet of <u>Gas</u>	<u>100</u>	<u></u>	<u></u>	<u></u>

Rec Total 61 BHT 119 Gravity  API RW  @  °F Chlorides  ppm  
 (A) Initial Hydrostatic 1976  Test 1250 T-On Location 1:45 PM  
 (B) First Initial Flow 22  Jars 250 T-Started 1:55 PM  
 (C) First Final Flow 39  Safety Joint 75 T-Open 3:50 PM  
 (D) Initial Shut-In 689  Circ Sub  T-Pulled 7:20 PM  
 (E) Second Initial Flow 40  Hourly Standby  T-Out 9:27 PM  
 (F) Second Final Flow 61  Mileage 128 R.T. 198.40 Comments   
 (G) Final Shut-In 622  Sampler   
 (H) Final Hydrostatic 1908  Straddle   Ruined Shale Packer   
 Shale Packer   Ruined Packer   
 Extra Packer   Extra Copies   
 Extra Recorder

Initial Open 45  
 Initial Shut-In 60  
 Final Flow 45  
 Final Shut-In 60  
 Sub Total 1773.40  
 Total 1773.40  
 MP/DST Disc't

Approved By [Signature] Our Representative Bruce Orit

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. **58361**

Well Name & No. Delbert Walt Trust #13-5 Test No. 3 Date 7-15-14  
 Company H+C Oil Operating, Inc. Elevation 2578 KB 2571 GL  
 Address PO Box 86 Plainville, KS 67663  
 Co. Rep / Geo. Steve Murphy Rig American Eagle #2  
 Location: Sec. 13 Twp. 10S Rge. 26W Co. Sheridan State KS

Interval Tested 4018-4040 Zone Tested LKC "K"  
 Anchor Length 22' Drill Pipe Run 3965 Mud Wt. 9.2  
 Top Packer Depth 4013 Drill Collars Run 30 Vis 52  
 Bottom Packer Depth 4018 Wt. Pipe Run — WL 6.4  
 Total Depth 4040 Chlorides 1500 ppm System LCM Tr

Blow Description IF - Opened w/ surface blow, built to 3/4"  
ISI - No Return  
FF - No Blow  
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</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 Total 2 BHT 116 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2055  Test 1250 T-On Location 4:10 AM  
 (B) First Initial Flow 17  Jars 250 T-Started 4:37 AM  
 (C) First Final Flow 21  Safety Joint 75 T-Open 6:44 AM  
 (D) Initial Shut-In 41  Circ Sub — T-Pulled 8:44 AM  
 (E) Second Initial Flow 21  Hourly Standby — T-Out 10:21 AM  
 (F) Second Final Flow 21  Mileage 128 R.T. 198.40  
 (G) Final Shut-In 43  Sampler —  
 (H) Final Hydrostatic 1917  Straddle —  
 Shale Packer —  Ruined Shale Packer —  
 Extra Packer —  Ruined Packer —  
 Extra Recorder —  Extra Copies —  
 Initial Open 30  Day Standby — Sub Total 0  
 Initial Shut-In 30  Accessibility — Total 1773.40  
 Final Flow 30 Sub Total 1773.40 MP/DST Disc't —  
 Final Shut-In 30

Approved By [Signature] Our Representative Bnd @ t  
 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.

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

No. 358

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

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

Date	7-16-14	13	10	26	Shee-lan	KS	100ppm
Sec.	Twp.	Range	County	State	On Location	Finish	
Lease					Location		
Delbert Walt Trust					St. Peter 4 1/2 Sinto		
Well No.					13-5		

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: Reduction String

Hole Size: 7 7/8

Csg. 5'k 14"

Tbg. Size: 5'k 14"

Charge To: AWC

Street: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_

Cement Left in Csg. 23'

Shoe Joint 23'

Displace 99' 1/2 B L

Cement Amount Ordered 450 QMDC / 415 B

Meas Line: 160 Q Pro-C 1/4 fl oz 500 gal mud clear  
Common 10% salt 5% g/l sulfate / 60 & pro-c  
Per. Mix 450 Q MDC

Pumptrk No. 20 Cementite Craig  
Helper Alex  
Driver Matt  
Bulktrk No. 21 Driver Matt  
Bulktrk No. 15 Driver Clayton

**JOB SERVICES & REMARKS**

Remarks: \_\_\_\_\_

Rat Hole 30SK

Mouse Hole \_\_\_\_\_

Centralizers \_\_\_\_\_

Baskets \_\_\_\_\_

DV or Port Collar \_\_\_\_\_

5'k sets 4126. Builup 4083

Best Circulation. Plus Reduc 30SK

Cement 5 1/2 with 420SK @ 11.7M

100SK @ 15#. Clear lines replace plug.

Handling 632

Mileage \_\_\_\_\_

Guide Shoe \_\_\_\_\_

Centralizer 13 Turbo's

Baskets 4

AFU Inserts \_\_\_\_\_

Float Shoe \_\_\_\_\_

Latch Down 1

Cement Circulated

14004 L.A Pressure

Land plus 2000 #

Pumptrk Charge pro-d string

Mileage 50

X	Signature	Rob Plank
	Tax	
	Discount	
	Total Charge	

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 310

Cell 785-324-1041

Date	7-8-14	Sec.	13	Twp.	10	Range	26	County	Shelburne	State	KS	On Location	4:00pm	Finish	6:20pm
Lease	DeBest-Walt Trust														
Contractor	American Eye 2														
Type Job	Surface														
Hole Size	1 1/4														
Csg.	8 5/8														
Tbg. Size	T.D. 263														
Tool	Depth														
Cement Left in Csg.	Shoe Joint 13.5 DBL														
Meas Line	Displace														
<b>EQUIPMENT</b>															
Pumptrk	No.	Cementer													
Bulktrk	No.	Helper													
Bulktrk	No.	Driver													
Bulktrk	No.	Driver													
Bulktrk	No.	Driver													
<b>JOB SERVICES &amp; REMARKS</b>															
Remarks:															
Rat Hole															
Mouse Hole															
Centralizers															
Baskets															
DV or Port Collar															
	Cement ditch														
	Circulate														
	Frank														
	Zey														
	FLOAT EQUIPMENT														
	Guide Shoe														
	Centralizer														
	Baskets														
	AFU Inserts														
	Float Shoe														
	Latch Down														
	Pumptrk Charge														
	Mileage 35														
	Tax														
	Discount														
	Total Charge														
Signature	Dwight Baker														