



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1154556
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
-----------------------------------	-----------------	---

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: _____



1154556

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
--	---

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)*

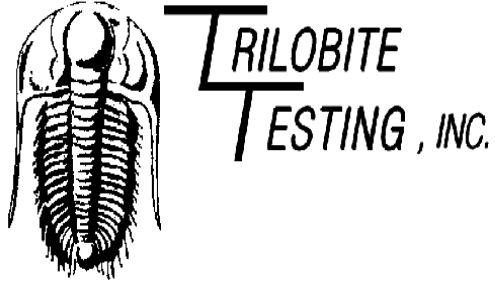
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	-------	---------	------------	---

Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <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> _____	PRODUCTION INTERVAL: _____ _____
--	---	---



DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663

ATTN: Marc Dowing

25-9s-25w Graham,KS

North Fork Farms #25-2

Start Date: 2013.07.29 @ 07:51:04

End Date: 2013.07.29 @ 15:09:54

Job Ticket #: 54378 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.02 @ 10:17:06

H&C Oil Operating, Inc

North Fork Farms #25-2

25-9s-25w Graham,KS

DST # 1

LKC "C"

2013.07.29



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating, Inc
PO Box 86
Plainville KS 67663
ATTN: Marc Dowling

North Fork Farms #25-2
25-9s-25w Graham,KS
Job Ticket: 54378 **DST#: 1**
Test Start: 2013.07.29 @ 07:51:04

GENERAL INFORMATION:

Formation: **LKC "C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:28:34
Time Test Ended: 15:09:54
Interval: **3928.00 ft (KB) To 3956.00 ft (KB) (TVD)**
Total Depth: 3956.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Tate Lang
Unit No: 41
Reference Elevations: 2587.00 ft (KB)
2582.00 ft (CF)
KB to GR/CF: 5.00 ft

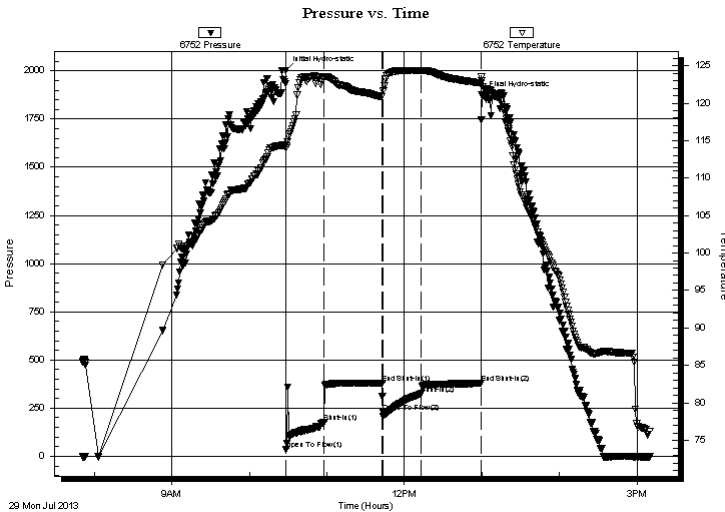
Serial #: 6752

Inside

Press @ Run Depth: 324.74 psig @ 3939.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.07.29 End Date: 2013.07.29 Last Calib.: 2013.07.29
Start Time: 07:51:05 End Time: 15:09:54 Time On Btm: 2013.07.29 @ 10:28:14
Time Off Btm: 2013.07.29 @ 12:59:43

TEST COMMENT: B.O.B. In 5 mins.
Dead no blow back
B.O.B. In 6 mins.
Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2002.18	114.36	Initial Hydro-static
1	35.39	114.06	Open To Flow (1)
30	175.86	123.38	Shut-In(1)
75	381.09	120.87	End Shut-In(1)
75	227.13	120.92	Open To Flow (2)
105	324.74	124.33	Shut-In(2)
152	377.88	122.67	End Shut-In(2)
152	1873.55	122.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
380.00	98%W 2%M	5.33
160.00	60%W 40%M few oil spots	2.24

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating, Inc

North Fork Farms #25-2

PO Box 86
Plainville KS 67663

25-9s-25w Graham,KS

ATTN: Marc Dowling

Job Ticket: 54378

DST#: 1

Test Start: 2013.07.29 @ 07:51:04

Tool Information

Drill Pipe:	Length: 3936.00 ft	Diameter: 3.80 inches	Volume: 55.21 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 55.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3938.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	38.00 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			3923.00	
Hydraulic tool	5.00			3928.00	
Packer	5.00			3933.00	20.00 Bottom Of Top Packer
Packer	5.00			3938.00	
Stubb	1.00			3939.00	
Recorder	0.00	6752	Inside	3939.00	
Recorder	0.00	8322	Outside	3939.00	
Perforations	14.00			3953.00	
Bullnose	3.00			3956.00	18.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc

North Fork Farms #25-2

PO Box 86
Plainville KS 67663

25-9s-25w Graham,KS

Job Ticket: 54378 **DST#: 1**

ATTN: Marc Dowling

Test Start: 2013.07.29 @ 07:51:04

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:	50000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

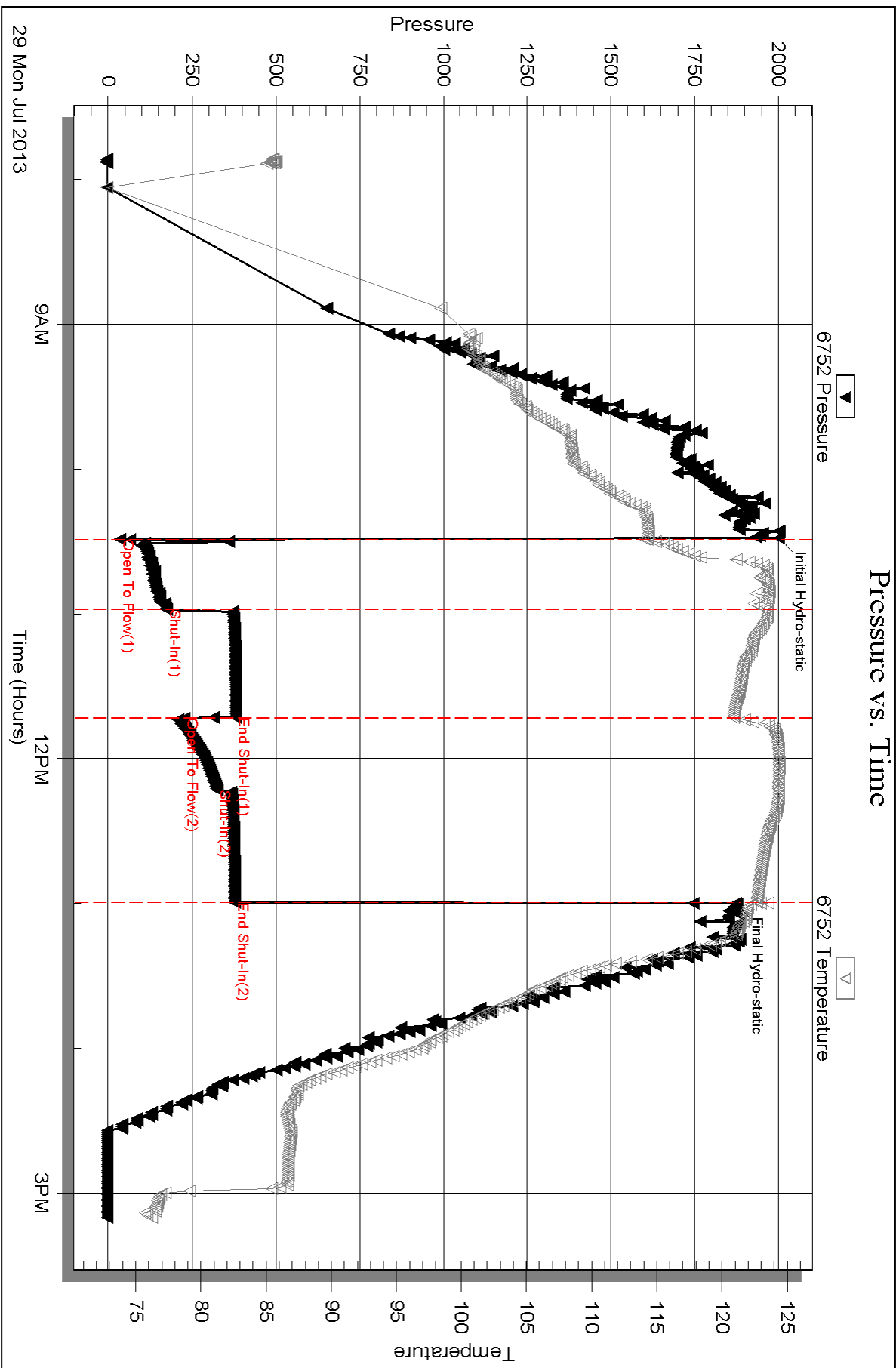
Length ft	Description	Volume bbl
380.00	98%W 2%M	5.330
160.00	60%W 40%M few oil spots	2.244

Total Length: 540.00 ft Total Volume: 7.574 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW .150 @ 69 = 50,000

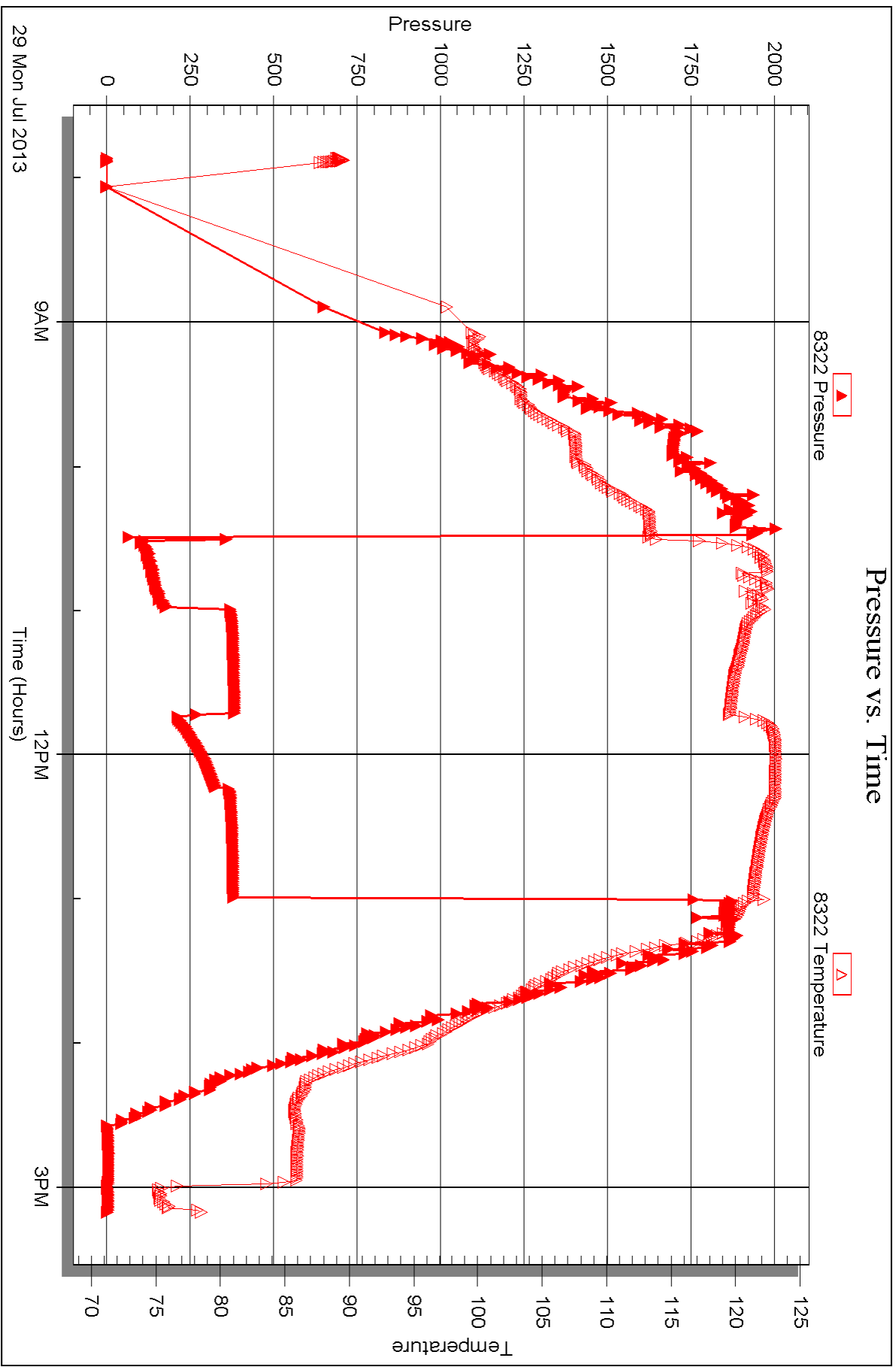


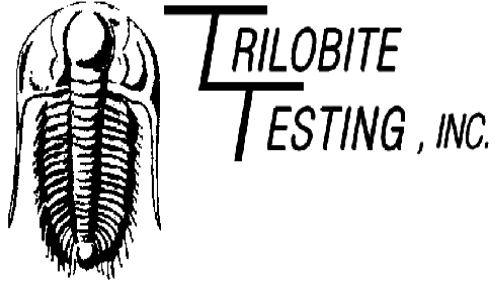
Serial #: 8322

Outside H&C Oil Operating, Inc

25-95-25w Graham,KS

DST Test Number: 1





DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663

ATTN: Marc Dowing

25-9s-25w Graham,KS

North Fork Farms #25-2

Start Date: 2013.07.29 @ 21:38:15

End Date: 2013.07.30 @ 04:59:05

Job Ticket #: 54379 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.02 @ 10:16:18

H&C Oil Operating, Inc

North Fork Farms #25-2

25-9s-25w Graham,KS

DST # 2

LKC "D"

2013.07.29



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating, Inc
PO Box 86
Plainville KS 67663
ATTN: Marc Dowling

North Fork Farms #25-2
25-9s-25w Graham,KS
Job Ticket: 54379 **DST#: 2**
Test Start: 2013.07.29 @ 21:38:15

GENERAL INFORMATION:

Formation: **LKC "D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:55:35
Time Test Ended: 04:59:05
Test Type: Conventional Bottom Hole (Reset)
Tester: Tate Lang
Unit No: 41
Interval: **3956.00 ft (KB) To 3980.00 ft (KB) (TVD)**
Reference Elevations: 2587.00 ft (KB)
Total Depth: 3980.00 ft (KB) (TVD) 2582.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

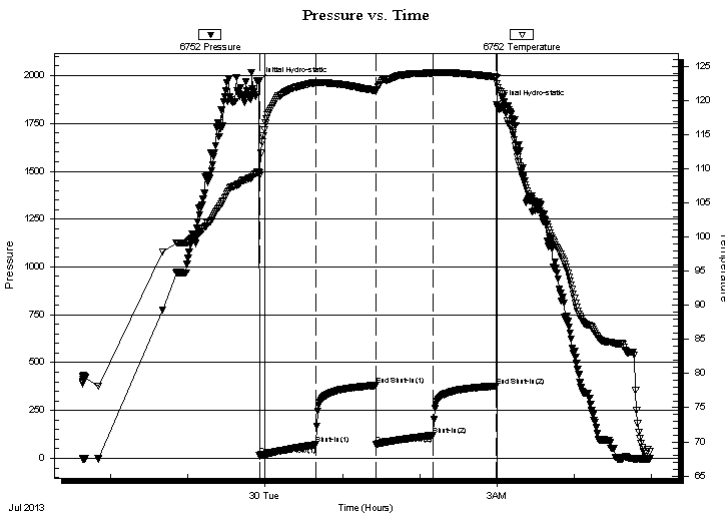
Serial #: 6752

Inside

Press @ Run Depth: 120.36 psig @ 3957.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.07.29 End Date: 2013.07.30 Last Calib.: 2013.07.30
Start Time: 21:38:16 End Time: 04:59:05 Time On Btm: 2013.07.29 @ 23:55:15
Time Off Btm: 2013.07.30 @ 02:59:35

TEST COMMENT: B.O.B. in 40 mis.
Dead no blow back
Fair surface blow built to 6 1/2"
Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1970.97	109.62	Initial Hydro-static
1	13.61	108.98	Open To Flow (1)
45	71.73	122.66	Shut-In(1)
91	380.71	121.49	End Shut-In(1)
91	74.08	121.38	Open To Flow (2)
135	120.36	124.10	Shut-In(2)
184	377.26	123.45	End Shut-In(2)
185	1848.98	123.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	SMCW 5%M 95%W skim of free oil on top	2.95

* 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

North Fork Farms #25-2

PO Box 86
Plainville KS 67663

25-9s-25w Graham,KS

ATTN: Marc Dowling

Job Ticket: 54379

DST#: 2

Test Start: 2013.07.29 @ 21:38:15

Tool Information

Drill Pipe:	Length: 3967.00 ft	Diameter: 3.80 inches	Volume: 55.65 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 55.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3956.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 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			3941.00	
Hydraulic tool	5.00			3946.00	
Packer	5.00			3951.00	20.00 Bottom Of Top Packer
Packer	5.00			3956.00	
Stubb	1.00			3957.00	
Recorder	0.00	6752	Inside	3957.00	
Recorder	0.00	8322	Outside	3957.00	
Perforations	20.00			3977.00	
Bullnose	3.00			3980.00	24.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc

North Fork Farms #25-2

PO Box 86
Plainville KS 67663

25-9s-25w Graham,KS

ATTN: Marc Dowling

Job Ticket: 54379

DST#: 2

Test Start: 2013.07.29 @ 21:38:15

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:

45000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
210.00	SMCW 5%M 95%W skim of free oil on top	2.946

Total Length: 210.00 ft Total Volume: 2.946 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

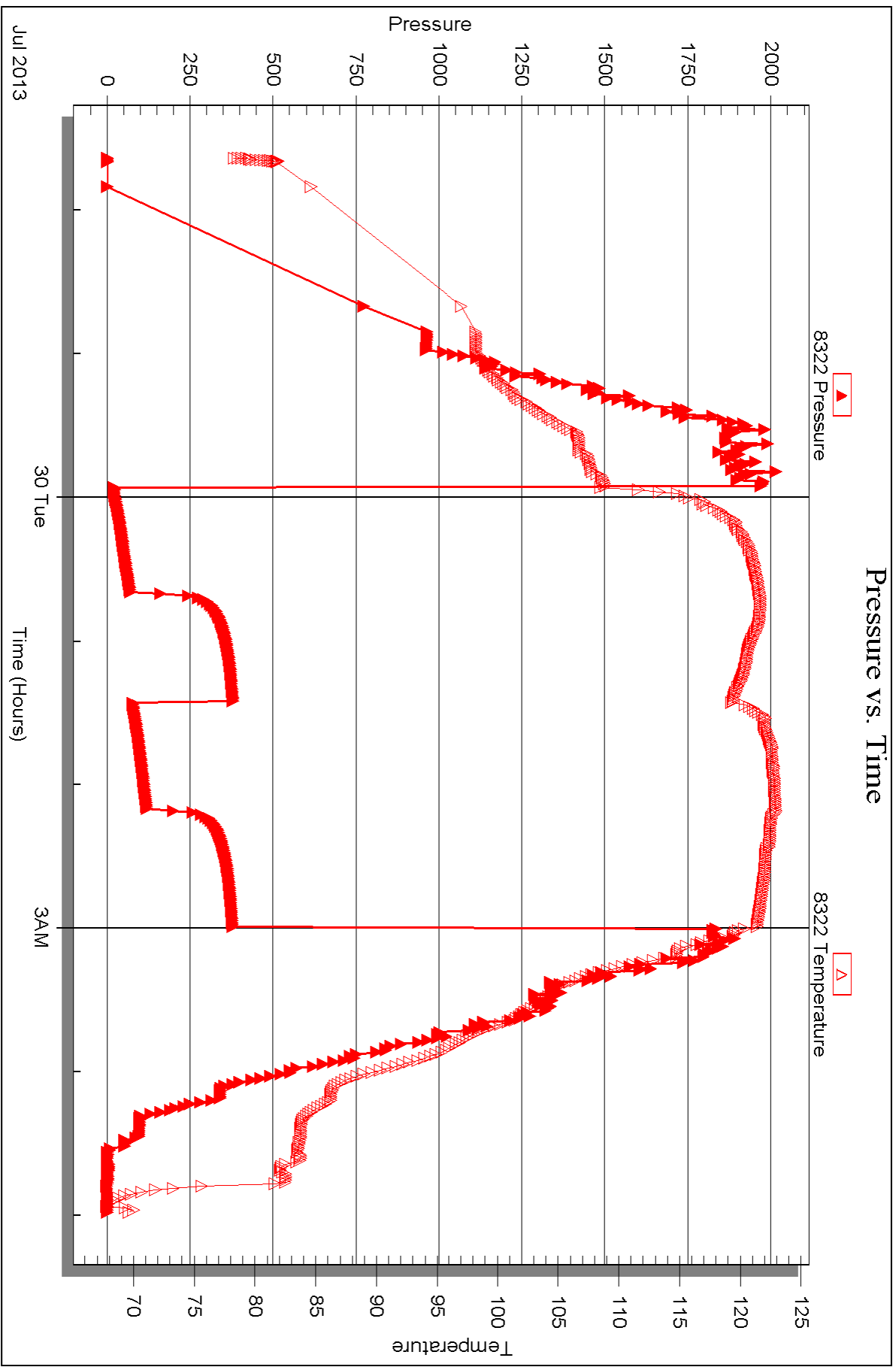
Recovery Comments: RW .214 @ 65 = 45,000

Serial #: 8322

Outside H&C Oil Operating, Inc

25-95-25w Graham,KS

DST Test Number: 2





DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663

ATTN: Marc Dowing

25-9s-25w Graham,KS

North Fork Farms #25-2

Start Date: 2013.07.30 @ 17:40:26

End Date: 2013.07.30 @ 23:59:26

Job Ticket #: 54380 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.02 @ 10:15:40



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating, Inc
PO Box 86
Plainville KS 67663
ATTN: Marc Dowling

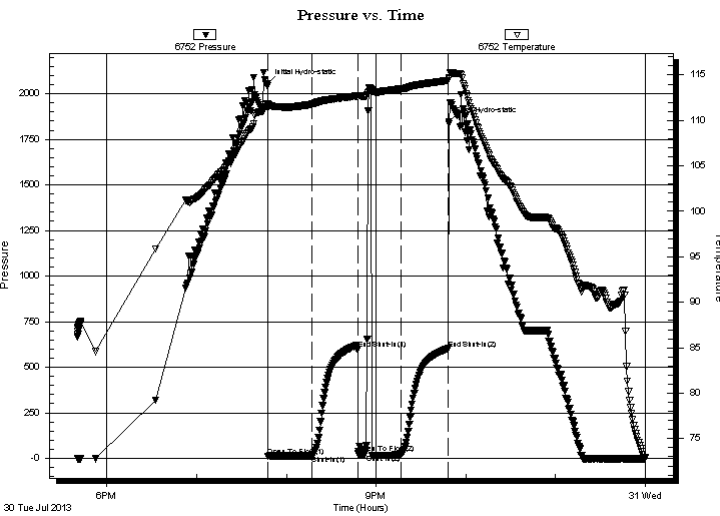
North Fork Farms #25-2
25-9s-25w Graham,KS
Job Ticket: 54380 **DST#: 3**
Test Start: 2013.07.30 @ 17:40:26

GENERAL INFORMATION:

Formation: "H"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:47:46
Time Test Ended: 23:59:26
Interval: **4044.00 ft (KB) To 4078.00 ft (KB) (TVD)**
Total Depth: 4078.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Tate Lang
Unit No: 41
Reference Elevations: 2587.00 ft (KB)
2582.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6752 Inside
Press @ Run Depth: 19.36 psig @ 4042.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.07.30 End Date: 2013.07.30 Last Calib.: 2013.07.31
Start Time: 17:40:27 End Time: 23:59:26 Time On Btm: 2013.07.30 @ 19:47:36
Time Off Btm: 2013.07.30 @ 21:48:36

TEST COMMENT: Weak surface blow
Dead no blow back
Tried flushing tool couldnt get it to flush Dead no blow
Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2054.53	111.87	Initial Hydro-static
1	12.15	111.39	Open To Flow (1)
30	17.01	111.79	Shut-In(1)
60	600.25	112.70	End Shut-In(1)
61	24.95	112.54	Open To Flow (2)
89	19.36	113.45	Shut-In(2)
121	601.83	114.40	End Shut-In(2)
121	1847.95	114.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100%M	0.14

* 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

North Fork Farms #25-2

PO Box 86
Plainville KS 67663

25-9s-25w Graham,KS

ATTN: Marc Dowling

Job Ticket: 54380

DST#: 3

Test Start: 2013.07.30 @ 17:40:26

Tool Information

Drill Pipe:	Length: 4030.00 ft	Diameter: 3.80 inches	Volume: 56.53 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 56.53 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	4041.00 ft			Final	38000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	37.00 ft				
Tool Length:	57.00 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			4026.00	
Hydraulic tool	5.00			4031.00	
Packer	5.00			4036.00	20.00 Bottom Of Top Packer
Packer	5.00			4041.00	
Stubb	1.00			4042.00	
Recorder	0.00	6752	Inside	4042.00	
Recorder	0.00	8322	Outside	4042.00	
Perforations	33.00			4075.00	
Bullnose	3.00			4078.00	37.00 Bottom Packers & Anchor
Total Tool Length:	57.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc
 PO Box 86
 Plainville KS 67663
 ATTN: Marc Dowling

North Fork Farms #25-2
25-9s-25w Graham,KS
 Job Ticket: 54380 **DST#: 3**
 Test Start: 2013.07.30 @ 17:40:26

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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 1.00 inches			

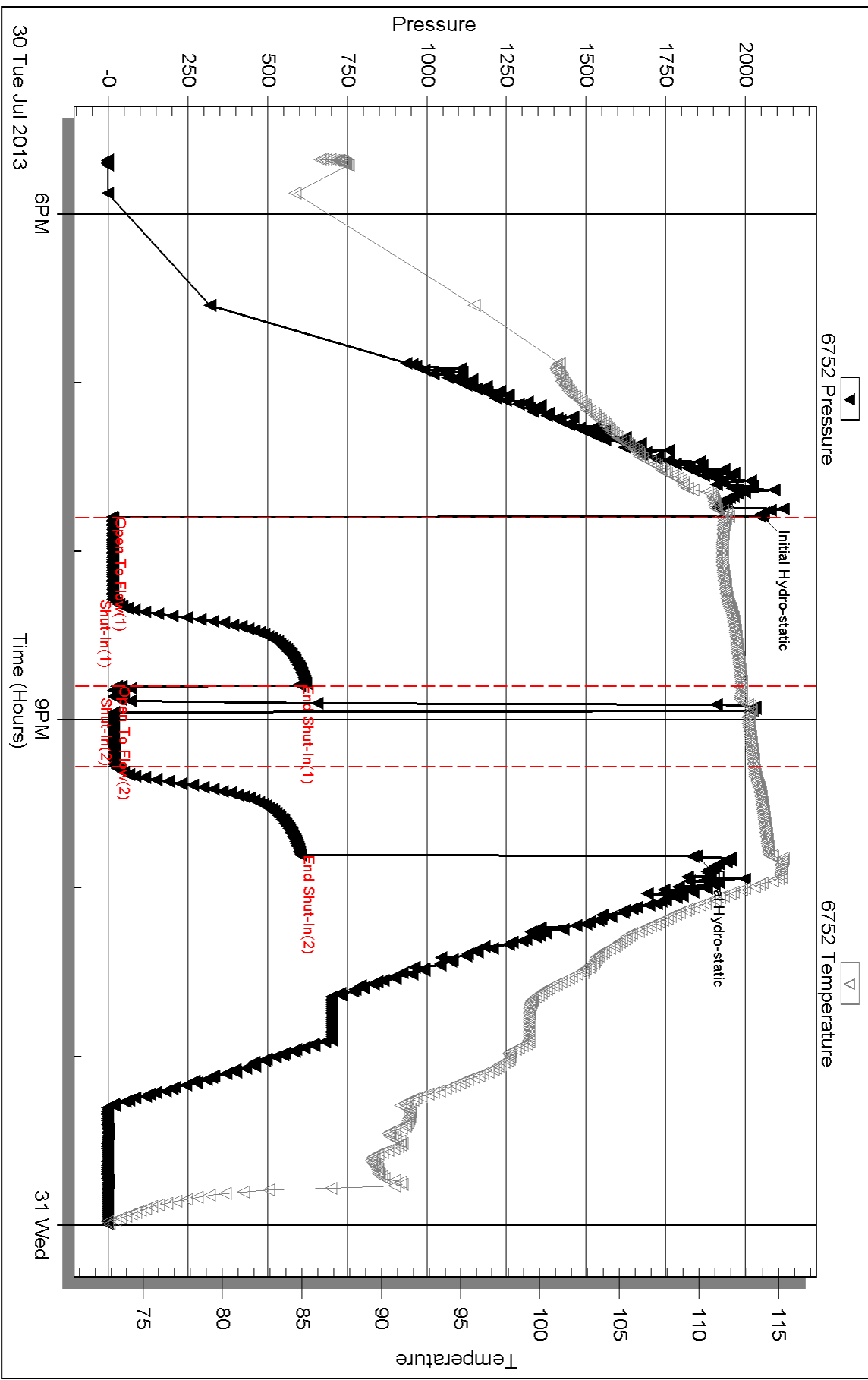
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100%M	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time

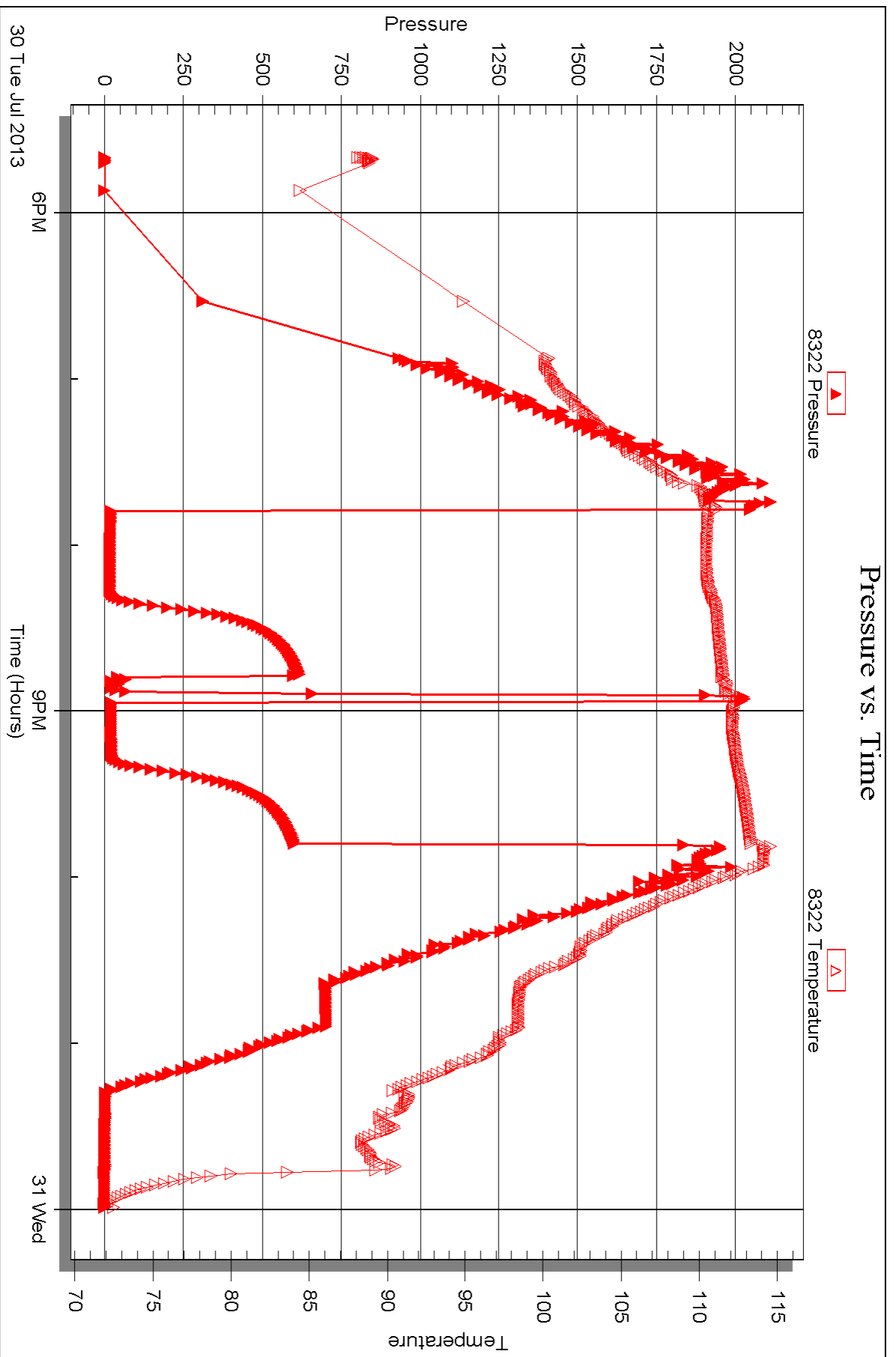


Serial #: 8322

Outside H&C Oil Operating, Inc

25-95-25w Graham,KS

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 54380

Printed: 2013.08.02 @ 10:15:43



DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663

ATTN: Marc Dowing

25-9s-25w Graham,KS

North Fork Farms #25-2

Start Date: 2013.07.31 @ 09:58:20

End Date: 2013.07.31 @ 16:08:29

Job Ticket #: 54381 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.02 @ 10:14:59



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating, Inc
 PO Box 86
 Plainville KS 67663
 ATTN: Marc Dowling

North Fork Farms #25-2
25-9s-25w Graham,KS
 Job Ticket: 54381 **DST#: 4**
 Test Start: 2013.07.31 @ 09:58:20

GENERAL INFORMATION:

Formation: **I&J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:16:30
 Time Test Ended: 16:08:29
 Interval: **4072.00 ft (KB) To 4117.00 ft (KB) (TVD)**
 Total Depth: 4117.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Tate Lang
 Unit No: 41
 Reference Elevations: 2587.00 ft (KB)
 2582.00 ft (CF)
 KB to GR/CF: 5.00 ft

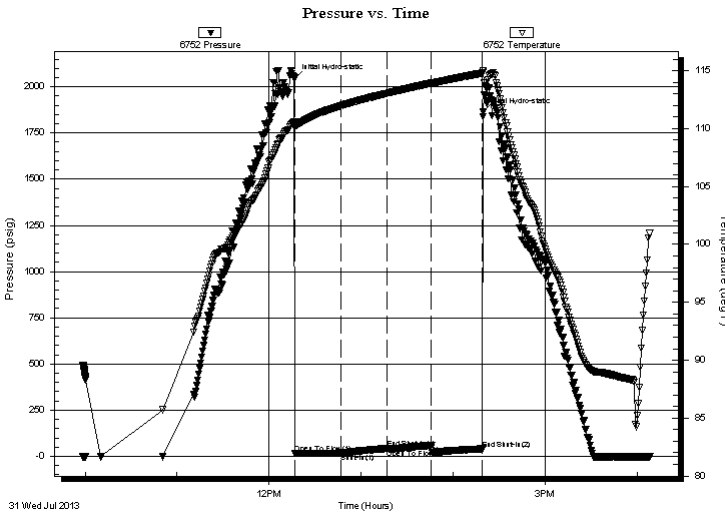
Serial #: 6752

Inside

Press @RunDepth: 59.98 psig @ 4080.00 ft (KB)
 Start Date: 2013.07.31 End Date: 2013.07.31
 Start Time: 09:58:21 End Time: 16:08:30
 Capacity: 8000.00 psig
 Last Calib.: 2013.07.31
 Time On Btm: 2013.07.31 @ 12:16:20
 Time Off Btm: 2013.07.31 @ 14:19:29

TEST COMMENT: Weak surface blow built to 1/2"
 Dead no blow back
 Dead no blow
 Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2044.92	110.55	Initial Hydro-static
1	16.35	110.05	Open To Flow (1)
31	18.23	111.98	Shut-In(1)
61	41.74	113.04	End Shut-In(1)
61	38.27	113.05	Open To Flow (2)
90	59.98	113.92	Shut-In(2)
123	39.95	114.79	End Shut-In(2)
124	1862.93	114.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% m w ith oil spots	0.07

* 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

North Fork Farms #25-2

PO Box 86
Plainville KS 67663

25-9s-25w Graham,KS

ATTN: Marc Dowling

Job Ticket: 54381

DST#: 4

Test Start: 2013.07.31 @ 09:58:20

Tool Information

Drill Pipe:	Length: 4060.00 ft	Diameter: 3.80 inches	Volume: 56.95 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 56.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	4072.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	65.00 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			4057.00	
Hydraulic tool	5.00			4062.00	
Packer	5.00			4067.00	20.00 Bottom Of Top Packer
Packer	5.00			4072.00	
Stubb	1.00			4073.00	
perforations	7.00			4080.00	
Recorder	0.00	6752	Inside	4080.00	
Recorder	0.00	8322	Outside	4080.00	
change Over Sub	1.00			4081.00	
drill Pipe	32.00			4113.00	
change Over Sub	1.00			4114.00	
Bullnose	3.00			4117.00	45.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc

North Fork Farms #25-2

PO Box 86
Plainville KS 67663

25-9s-25w Graham,KS

ATTN: Marc Dowling

Job Ticket: 54381 **DST#: 4**

Test Start: 2013.07.31 @ 09:58:20

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: 7.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1600.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% m with oil spots	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

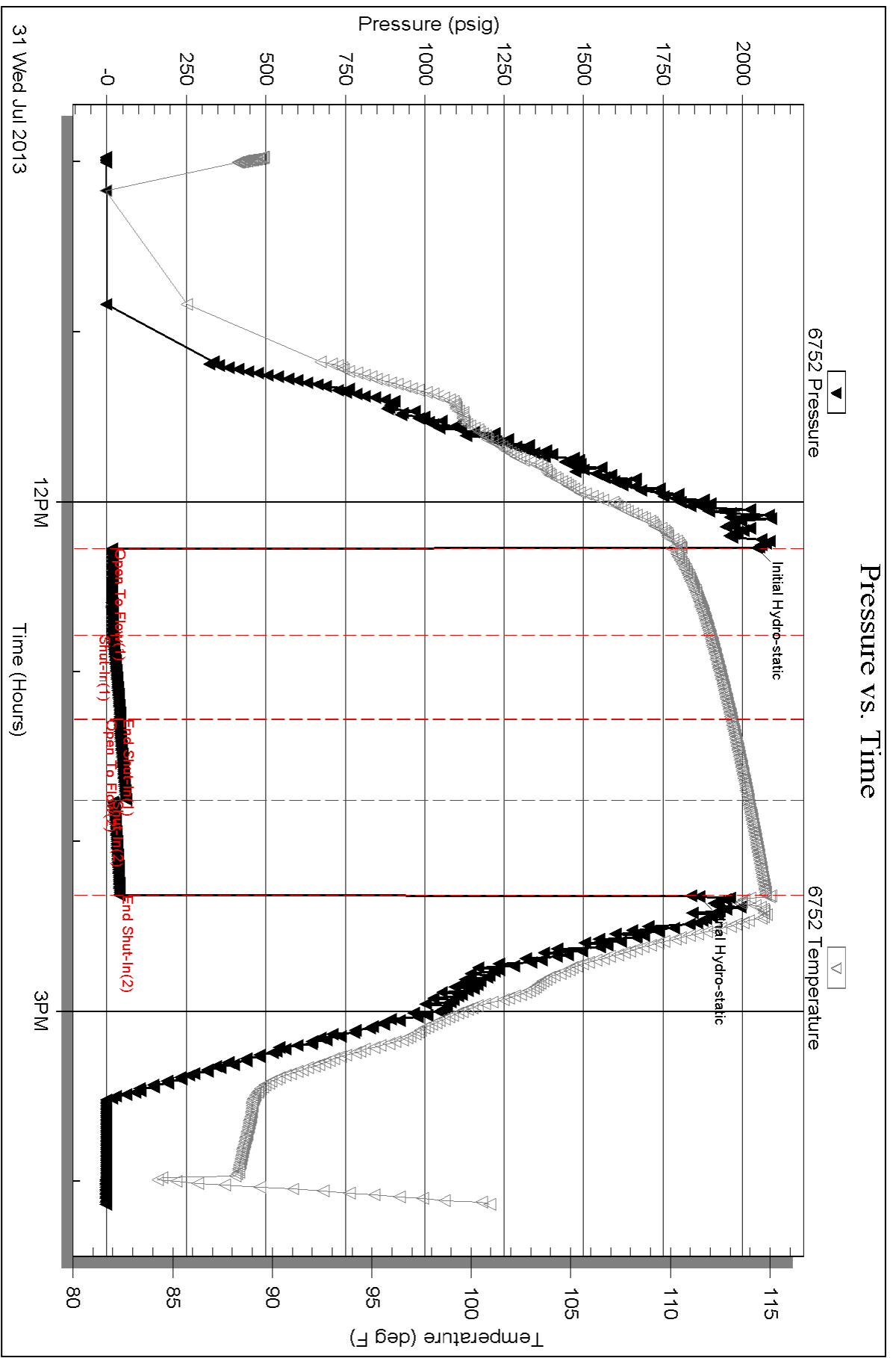
Serial #: 6752

Inside

H&C Oil Operating, Inc

25-95-25w Graham,KS

DST Test Number: 4

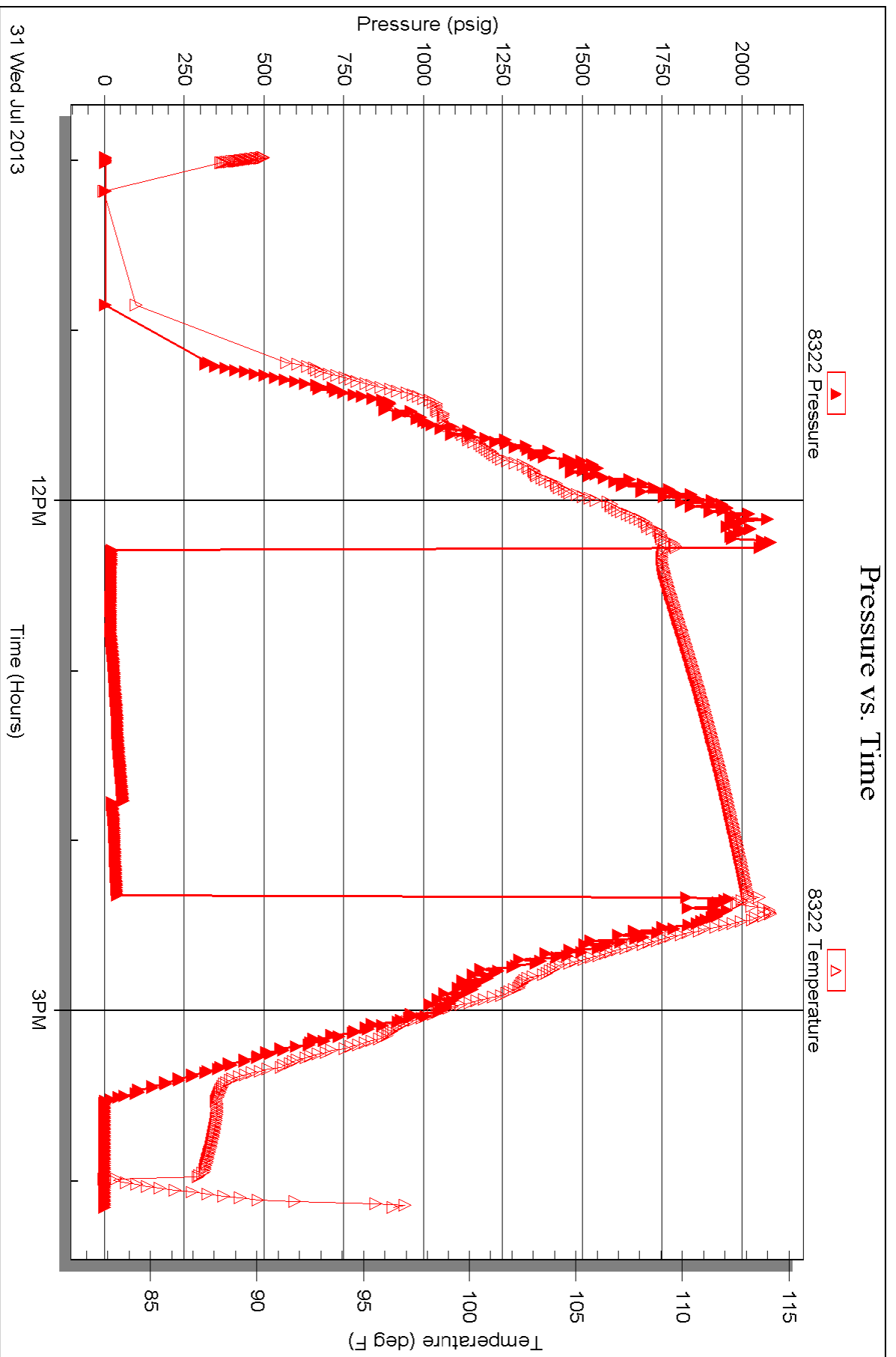


Serial #: 8322

Outside H&C Oil Operating, Inc

25-95-25w Graham,KS

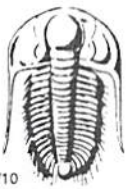
DST Test Number: 4



Triobite Testing, Inc

Ref. No: 54381

Printed: 2013.08.02 @ 10:15:02



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54378

Well Name & No. North Fork Farms #25-2 Test No. 1 Date 7-29-88
 Company H+C Oil Operating, INC Elevation 2587 KB 2582 GL
 Address PO Box 86 Plainville
 Co. Rep / Geo. Marc Downing Rig American Eagle Rig #3
 Location: Sec. 25 Twp. 09S Rge. 25W Co. Graham State KS

Interval Tested 3938 3956 Zone Tested LHC "C"
 Anchor Length 18' Drill Pipe Run 3936 Mud Wt. 9.0
 Top Packer Depth 3934 Drill Collars Run 0 Vis 55
 Bottom Packer Depth 3938 Wt. Pipe Run 9 WL 6.8
 Total Depth 3956 Chlorides 1000 ppm System LCM 2*

Blow Description B.O.B. In 5 mins. Dead no blow back
B.O.B. In 6 mins. Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>160</u>	<u>MCW</u>			<u>60</u>	<u>40</u>
<u>380</u>	<u>USMCW</u>			<u>98</u>	<u>2</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec Total	<u>340</u>				

BHT 115 Gravity — API RW, 150 @ 68 °F Chlorides 2000 ppm
 Test 1150 T-On Location 04:00
 Jars T-Started 07:51
 Safety Joint T-Open 10:28
 Circ Sub T-Pulled 12:58
 Hourly Standby T-Out 15:10
 Mileage 120 RT 186 Comments Wait on Cat From 4:00 to 6:45
 Sampler
 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer 320
 Extra Packer Extra Copies
 Initial Open 30 Initial Shut-In 45 Sub Total 0
 Final Flow 30 Final Shut-In 45 Total 1656
 Sub Total 1336 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. 54379

Well Name & No. North Fork Farms #25-2 Test No. 2 Date 7/29/78
 Company A+C Oil Operating, INC Elevation 2587 KB 2582 GL
 Address _____
 Co. Rep / Geo. Marc Downing Rig American Eagle Rig #3
 Location: Sec. 25 Twp. 09S Rge. 25W Co. Graham State KS

Interval Tested 3956 3980 Zone Tested LKC "D"
 Anchor Length _____ Drill Pipe Run 3967 Mud Wt. 9.2
 Top Packer Depth 3952 Drill Collars Run 0 Vis 54
 Bottom Packer Depth 3956 Wt. Pipe Run 0 WL 7.2
 Total Depth 3980 Chlorides 1000 ppm System LCM 2#

Blow Description B.O.B. In 40 mins
Dead no blow back
Fair Surface slow built to 6 1/2 in
Dead no blow back

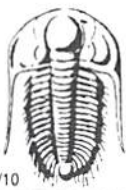
Rec	Feet of	%gas	%oil	%water	%mud
<u>210</u>	<u>SMCW Free Oil on top</u>			<u>95%</u>	<u>5%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 210 BHT 123 Gravity _____ API RW 214 @ 65 ° F Chlorides 45000 ppm
 (A) Initial Hydrostatic 1971 Test 1150 T-On Location 20:58
 (B) First Initial Flow 14 Jars _____ T-Started 21:38
 (C) First Final Flow 72 Safety Joint _____ T-Open 23:55
 (D) Initial Shut-In 381 Circ Sub _____ T-Pulled 02:55
 (E) Second Initial Flow 74 Hourly Standby _____ T-Out 05:00
 (F) Second Final Flow 120 Mileage 120 R/T 186 Comments _____
 (G) Final Shut-In 377 Sampler _____
 (H) Final Hydrostatic 1849 Straddle _____ Ruined Shale Packer _____

Initial Open 45 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 45 Extra Packer _____ Extra Copies _____
 Final Flow 45 Extra Recorder _____ Sub Total 0
 Final Shut-In 45 Day Standby _____ Total 1336
 Sub Total 1336 Accessibility _____ MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged or 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. 54380

Well Name & No. North Fork Farms #25-2 Test No. 3 Date 7-30-13
 Company H+L Oil Operating, INC Elevation 28287 KB 2582
 Address _____
 Co. Rep / Geo. Marc Downing Rig American Eagle #3
 Location: Sec. 25 Twp. 09S Rge. 25W Co. Graham State KS

Interval Tested 4044 4078 Zone Tested LLK "H"
 Anchor Length _____ Drill Pipe Run 4030 Mud Wt. 9.1
 Top Packer Depth 4037 ~~4040~~ Drill Collars Run 0 Vis 57
 Bottom Packer Depth 4041 ~~4044~~ Wt. Pipe Run 0 WL 7.4
 Total Depth 4078 Chlorides 1,700 ppm System LCM 2#

Blow Description Weak surface blow
Dead no blow back
Tried flushing tool couldn't get to flush Dead no blow
Dead no blow (Flushed showed)
up on charts

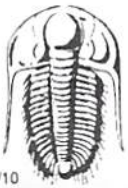
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>10</u>	Feet of <u>mud</u>	%gas	%oil	%water	<u>100</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT _____ Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 2055 Test 1250 T-On Location 16:28
 (B) First Initial Flow 13 Jars _____ T-Started 17:40
 (C) First Final Flow 17 Safety Joint _____ T-Open 19:47
 (D) Initial Shut-In 600 Circ Sub _____ T-Pulled 21:47
 (E) Second Initial Flow 25 Hourly Standby _____ T-Out 25:59
 (F) Second Final Flow 19 Mileage 120 R/T 186 Comments _____
 (G) Final Shut-In 602 Sampler _____
 (H) Final Hydrostatic 1848 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Shale Packer _____
 Initial Shut-In 30 Extra Packer _____
 Final Flow 30 Extra Recorder _____ Sub Total 0
 Final Shut-In 30 Day Standby _____ Total 1436
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1436

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. 54381

Well Name & No. North Fork Farms #25-2 Test No. 41 Date 7-31-13
 Company H&C Oil Operating, INC Elevation 2587 KB 2582 GL
 Address _____
 Co. Rep / Geo. Mark Downing Rig American Eagle Rig #3
 Location: Sec. 25 Twp. 09S Rge. 25W Co. Grattan State KS

Interval Tested 4072 4117 Zone Tested I+J
 Anchor Length _____ 45 Drill Pipe Run _____ Mud Wt. 9.2 p.l
 Top Packer Depth _____ 4068 Drill Collars Run 0 Vis 60
 Bottom Packer Depth _____ 4072 Wt. Pipe Run 0 WL 7.6
 Total Depth _____ 4117 Chlorides 1600 ppm System LCM 2#
 Blow Description Weak surface blow built to 1/2 in
Dead no blow back
Dead no blow
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>10</u>	Feet of <u>mud with oil spots</u>	%gas	%oil	%water <u>100</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 115 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2045 Test 1250 T-On Location 08:50
 (B) First Initial Flow 16 Jars _____ T-Started 09:58
 (C) First Final Flow 18 Safety Joint _____ T-Open 12:16
 (D) Initial Shut-In 42 Circ Sub _____ T-Pulled 14:16
 (E) Second Initial Flow 28 Hourly Standby _____ T-Out 16:09
 (F) Second Final Flow 60 Mileage 120 R/T 372 Comments _____
 (G) Final Shut-In 40 Sampler _____ loaded tools 8/1 15:00
 (H) Final Hydrostatic 1863 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1622
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1622

Approved By _____ Our Representative Mark Downing
 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.

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

August 07, 2013

Charles Ramsay
H & C Oil Operating Inc.
PO BOX 86
PLAINVILLE, KS 67663-0086

Re: ACO1
API 15-065-23957-00-00
North Fork Farms 25-2
NE/4 Sec.25-09S-25W
Graham County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Charles Ramsay

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

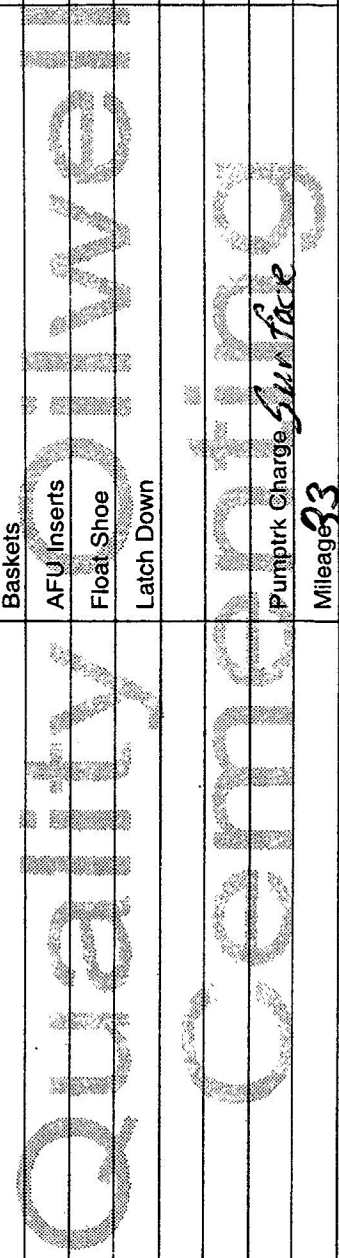
Phone 785-483-2025
Cell 785-324-1041

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

No. 7990

Date	7-23-13	25	9	25	Range	County	State	On Location	Finish	
North Fork Farms					Creekham KS					5:00pm.
Lease	Well No. 25-2									
Contractor	American Eagle #3									
Type Job	Surface									
Hole Size	12 1/4									
Csg.	8 5/8									
Tbg. Size										
Tool										
Cement Left in Csg.	15'									
Meas Line	Displace 1636									
EQUIPMENT										
Pumptrk	17	No.	Cementing	Common						160
			Helper	Poz. Mix						
Bulktrk		No.	Driver	Gel.						3
			Driver	Calcium						5
Bulktrk	19	No.	Driver	Hulls						
			Driver	Salt						
JOB SERVICES & REMARKS										
Remarks:										
Rat Hole										
Mouse Hole										
Centralizers	Mud CLR 48									
Baskets	CFL-117 or CD110 CAF 38									
D/V or Port Collar	Sand									
	8 5/8 on bottom B3 + Circulation									
	Mix Losses + Disposal									
	Amount Circulated									
	Handling 160									
	Mileage									
	GUIDE SHOE									
	Centralizer									
	Baskets									
	AFU Inserts									
	Float Shoe									
	Latch Down									
	Pumptrk Charge Surface									
	Mileage 33									
									Tax	
									Discount	
									Total Charge	

X Signature



QUALITY OILWELL CEMENTING, INC.

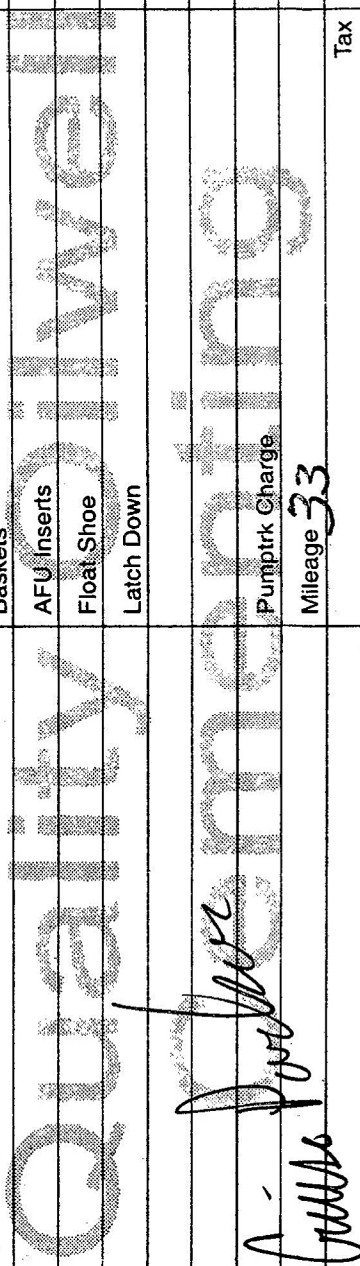
Federal Tax I.D.# 20-2886107

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

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

No. 7435

Date 8-1-13	Sec. 25	Twp. 9	Range 25	County Graham	State KS	On Location	Finish 8:30pm
Lease North Fork Farms				Well No. 25-2		Location 283 N to Red line, 9w to 160 Rd, IN, Wn 2	
Contractor American Eagle 3							
Type Job Plug							
Hole Size 7 7/8							
Csg. T.D.							
Tbg. Size Depth							
Tool Depth							
Cement Left in Csg. Shoe Joint							
Meas Line Displace							
EQUIPMENT							
Pumptrk	No.	Cementer					
16		Helper Chad					
Bulktrk	No.	Driver					
14		Driver Clinton					
Bulktrk	No.	Driver					
14		Driver Travis					
JOB SERVICES & REMARKS							
Remarks:							
Rat Hole							
Mouse Hole							
Centralizers							
Baskets							
DN or Port Collar							
25 sx at 2275							
100 sx at 1380							
40 sx at 315							
10 sx at 40							
30 sx Rat							
Common 123							
Poz. Mix 92							
Gel. 7							
Calcium							
Hulls							
Salt							
Flowseal 50A							
Kol-Seal							
Mud CLR 48							
CFL-117 or CD110 CAF 38							
Sand							
Handling 212							
Mileage FLOAT EQUIPMENT							
Guide Shoe							
Centralizer							
Baskets							
AFU inserts							
Float Shoe							
Latch Down							
Pumptrk Charge							
Mileage 33							
Tax							
Discount							
Total Charge							



A. Purdum
addls

X Signature

Marc Downing
Consulting Petroleum Geologist

1411 Washington Circle
Hays, KS 67601
Phone: 620-428-1356 (cell) 785-621-2286

GEOLOGIC REPORT LOG

COMPANY **H+C Oil Operating, Inc.**
WELL **North Fork Farms #35-2**
FIELD

LOCATION **800' ENL & 1150' FEL**
SEC. **25** TWP. **9S** RGE. **25W**

COUNTY **Graham**
STATE **Kansas**

OPERATOR **H+C Oil Operating, Inc.**
CONTRACTOR **American Energy, Rig #3**
COMM. **8-1-13**

CASING RECORD
SURF: **8 1/2" @ 2 1/2'** PROD: **4198'**
TOTAL DEPTH LOG: **4198'**

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATION	STRUCTURAL POSITION
Top Anhydrite base Anhydrite	2240	2240	+287	-5
Tanaka	3417	3417	-1082	-9
Heegner	3882	3882	-1295	-9
Toronto	3906	3906	-1319	-9
LKC	3918	3918	-1331	-9
BKC	4156	4156	-1569	-12

REFERENCE WELL FOR STRUCTURE **H+C Oil Operating, Inc.**
North Fork Farms #25-1
990' ENL - 330' FEL
SEC 25-9S-25W

DRILL STEM TESTS

No.	Interval	IFP/Time	ISFP/Time	FFP/Time	FSFP/Time	HP-FHP	RECOVERY

LEGEND

