



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1104536  
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: \_\_\_\_\_



1104536

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](mailto: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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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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

December 12, 2012

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

Re: ACO1  
API 15-065-23883-00-00  
North Fork 36-1  
NE/4 Sec.36-09S-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,  
Charlie Ramsay

**Marc Downing**

Consulting Petroleum Geologist  
1411 Washington Circle  
Hays, KS 67601

Phone: 620-428-1356 (cell) 785-621-2286

**GEOLOGIC REPORT LOG**

COMPANY Hrc Oil Operating, Inc.

WELL Heath Fork #34-1

LOCATION 42D FNL + 99D FEL

SEC. 36 TWP. 9S RGE. 25W

COUNTY Graham

STATE Kansas

OPERATOR Hrc Oil Operating, Inc.

CONTRACTOR American Energy, Inc.

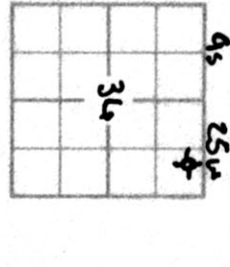
COMPL. 12-1-12

SURF. 48" @ 232' PROD. None

TOTAL DEPTH LOG: 4038'

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
Topo Anhydrite	2191		4351	
Base Anhydrite	2219		4313	
Topoka	3404		-1072	
Heegner	3422		-1290	
Taranta	3446		-1314	
LKC	3461		-1329	
BKC			Asst. Reservoir	

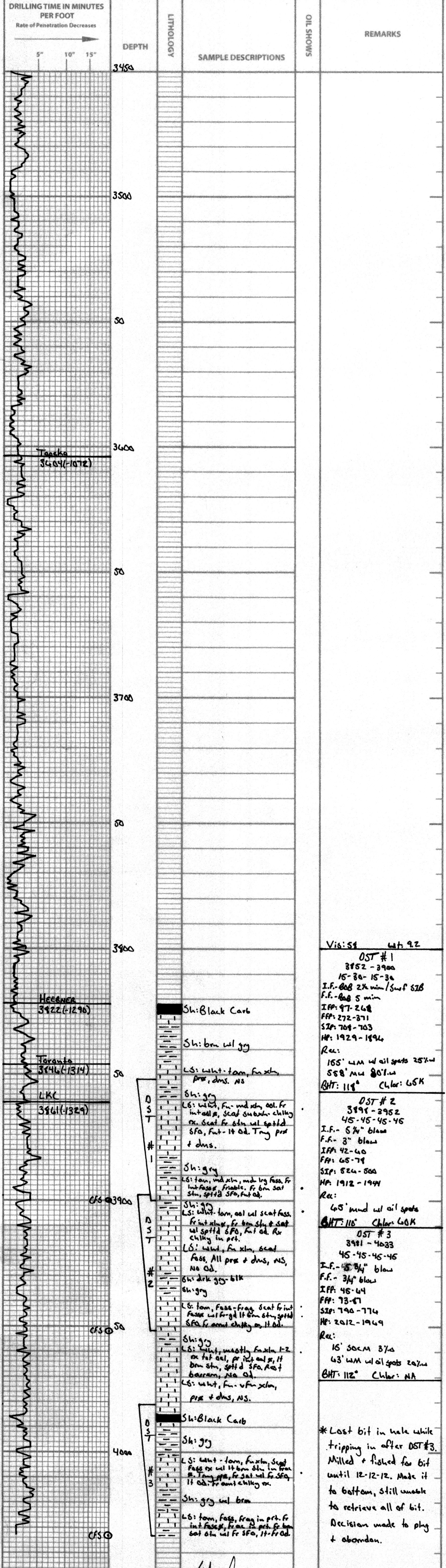
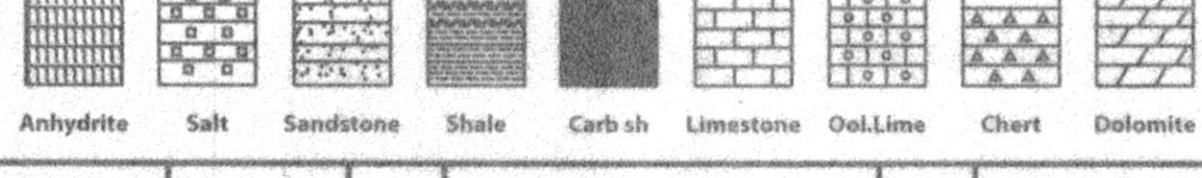


No.	DRILL STEM TESTS					RECOVERY
	Interval	FFP/Time	ISP/Time	FSP/Time	HP-FHP	

REMARKS AND RECOMMENDATIONS  
Lost bit in hole while tripping in after DST #3. Could not retrieve bit through milling use fishing. Decision made to plug & abandon.

*Marc Downing*

**LEGEND**





## DRILL STEM TEST REPORT

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

PO Box 86  
Plainville KS 67663

ATTN: Charles R Ramsay

### **North Fork #36-1**

### **36-9s-25w Graham,KS**

Start Date: 2012.12.05 @ 12:18:34

End Date: 2012.12.05 @ 18:22:04

Job Ticket #: 44324                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.10 @ 10:52:16



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

H&C Oil Operating Inc

**36-9s-25w Graham,KS**

PO Box 86  
Plainville KS 67663

**North Fork #36-1**

Job Ticket: 44324

**DST#: 1**

ATTN: Charles R Ramsay

Test Start: 2012.12.05 @ 12:18:34

## GENERAL INFORMATION:

Formation: **LKC A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:19:04

Time Test Ended: 18:22:04

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 44

**Interval: 3852.00 ft (KB) To 3900.00 ft (KB) (TVD)**

Reference Elevations: 2535.00 ft (KB)

Total Depth: 3900.00 ft (KB) (TVD)

2529.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 6.00 ft

## Serial #: 8321

Inside

Press @ Run Depth: 371.34 psig @ 3888.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.12.05

End Date:

2012.12.05

Last Calib.:

2012.12.05

Start Time: 12:18:35

End Time:

18:22:04

Time On Btm:

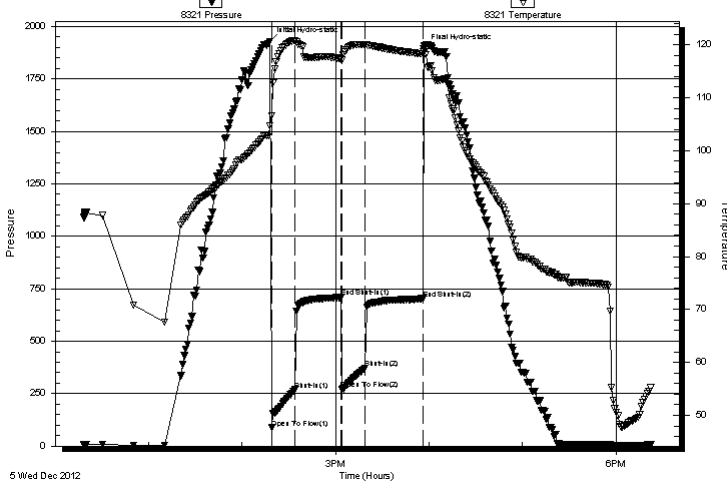
2012.12.05 @ 14:18:04

Time Off Btm:

2012.12.05 @ 15:56:34

**TEST COMMENT:** IFP-Strong blow BOB in 2 1/2 min  
ISI-Weak surface blow back  
FFP-Good blow BOB in 5 min  
FSI-Dead no blow back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1929.29	104.74	Initial Hydro-static
1	87.60	106.63	Open To Flow (1)
16	268.55	120.84	Shut-In(1)
46	708.45	117.38	End Shut-In(1)
46	272.11	117.09	Open To Flow (2)
61	371.34	119.99	Shut-In(2)
98	702.94	118.28	End Shut-In(2)
99	1895.60	118.67	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
558.00	MW 20%M 80%W	7.83
155.00	WM with oil spots 25%W 75%M	2.17

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

H&C Oil Operating Inc

**36-9s-25w Graham,KS**

PO Box 86  
Plainville KS 67663

**North Fork #36-1**

Job Ticket: 44324

**DST#: 1**

ATTN: Charles R Ramsay

Test Start: 2012.12.05 @ 12:18:34

## GENERAL INFORMATION:

Formation: **LKC A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:19:04

Time Test Ended: 18:22:04

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 44

**Interval: 3852.00 ft (KB) To 3900.00 ft (KB) (TVD)**

Reference Elevations: 2535.00 ft (KB)

Total Depth: 3900.00 ft (KB) (TVD)

2529.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 6.00 ft

**Serial #: 8737 Outside**

Press @ Run Depth: psig @ 3888.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.12.05

End Date:

2012.12.05

Last Calib.:

2012.12.05

Start Time: 12:18:46

End Time:

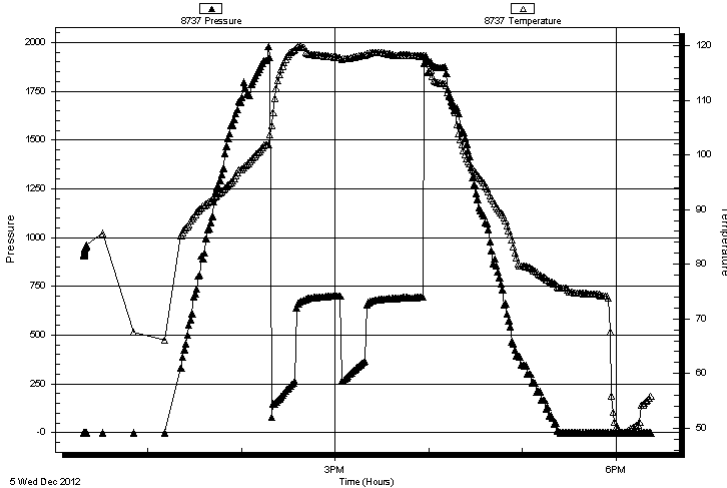
18:22:15

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IFP-Strong blow BOB in 2 1/2 min  
ISI-Weak surface blow back  
FFP-Good blow BOB in 5 min  
FSI-Dead no blow back

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
558.00	MW 20%M 80%W	7.83
155.00	WM with oil spots 25%W 75%M	2.17

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H&C Oil Operating Inc

**36-9s-25w Graham,KS**

PO Box 86  
Plainville KS 67663

**North Fork #36-1**

Job Ticket: 44324

**DST#: 1**

ATTN: Charles R Ramsay

Test Start: 2012.12.05 @ 12:18:34

## Tool Information

Drill Pipe:	Length: 3839.00 ft	Diameter: 3.80 inches	Volume: 53.85 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 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: 75000.00 lb
			<u>Total Volume: 53.85 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3852.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	68.00 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			3833.00	
Shut In Tool	5.00			3838.00	
Hydraulic tool	5.00			3843.00	
Packer	4.00			3847.00	20.00 Bottom Of Top Packer
Packer	5.00			3852.00	
Stubb	1.00			3853.00	
Perforations	2.00			3855.00	
Change Over Sub	1.00			3856.00	
Drill Pipe	31.00			3887.00	
Change Over Sub	1.00			3888.00	
Recorder	0.00	8321	Inside	3888.00	
Recorder	0.00	8737	Outside	3888.00	
Perforations	9.00			3897.00	
Bullnose	3.00			3900.00	48.00 Bottom Packers & Anchor

**Total Tool Length: 68.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H&C Oil Operating Inc

**36-9s-25w Graham,KS**

PO Box 86  
Plainville KS 67663

**North Fork #36-1**

Job Ticket: 44324

**DST#: 1**

ATTN: Charles R Ramsay

Test Start: 2012.12.05 @ 12:18:34

## 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:

bbbl

Water Loss: 7.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
558.00	MW 20%M 80%W	7.827
155.00	WM with oil spots 25%W 75%M	2.174

Total Length: 713.00 ft      Total Volume: 10.001 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8321

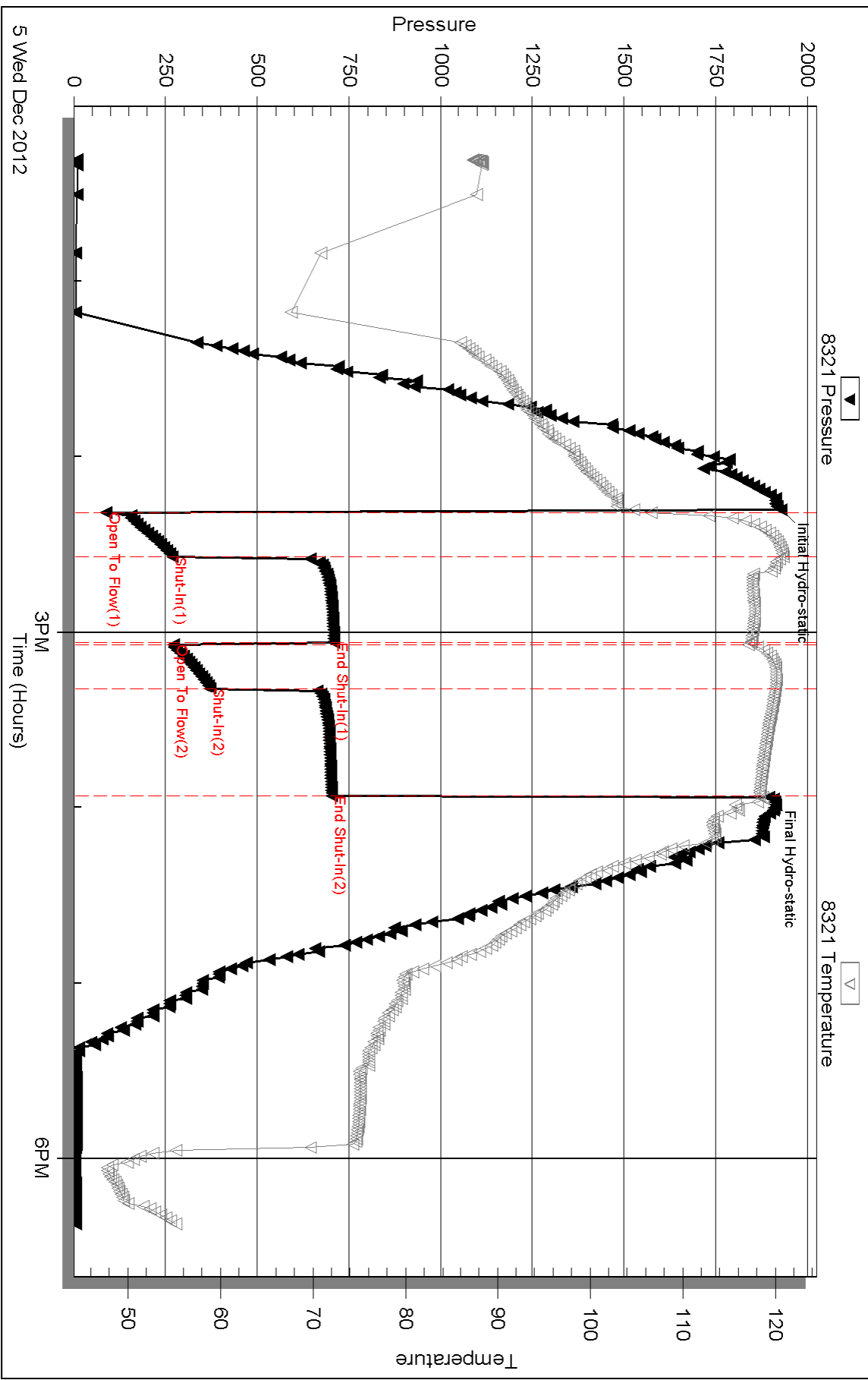
Inside

H&C Oil Operating Inc

North Fork #36-1

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 44324

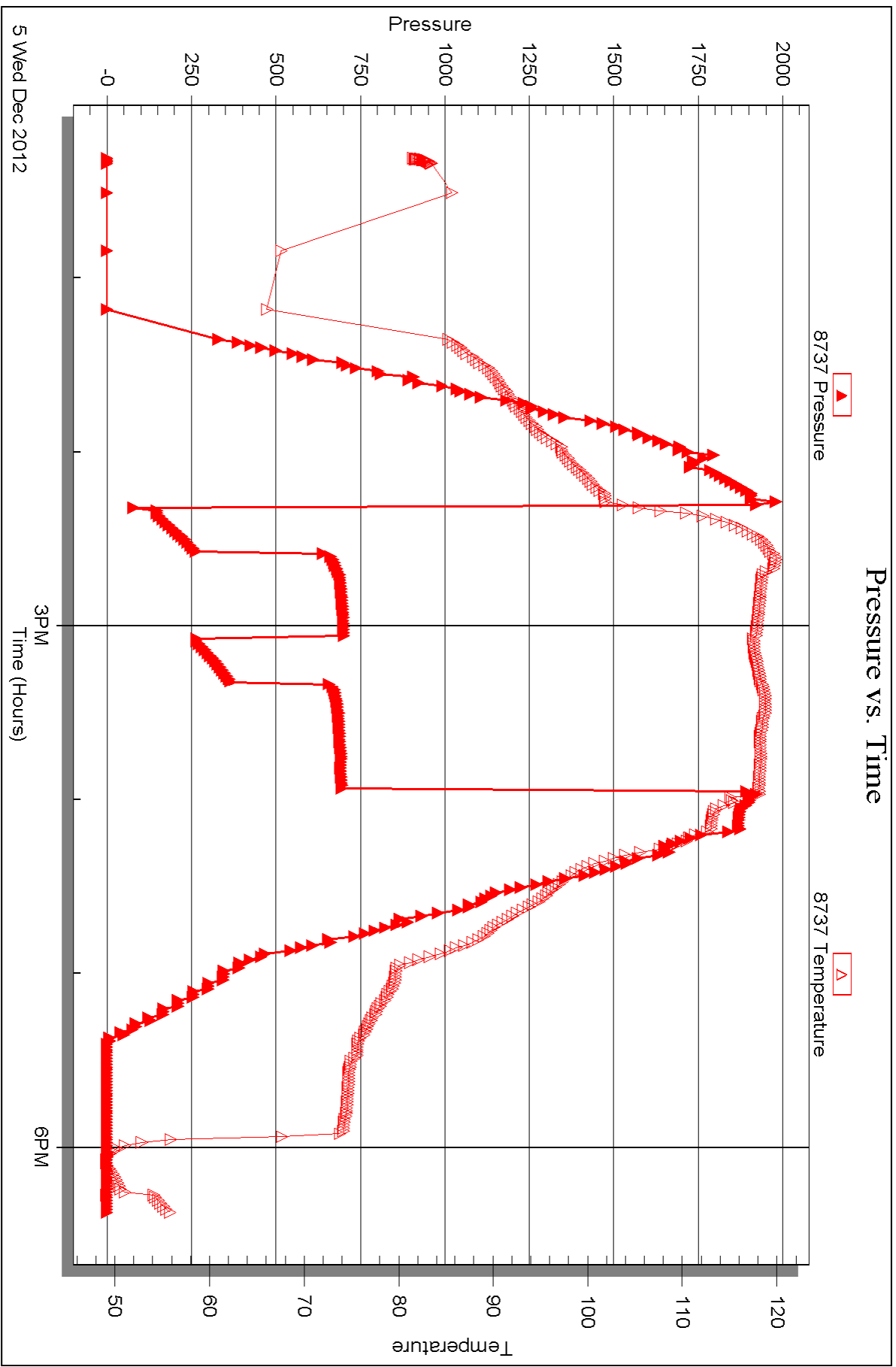
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Serial #: 8737

Outside H&C Oil Operating Inc

North Fork #36-1

DST Test Number: 1



5 Wed Dec 2012

Triobite Testing, Inc

Ref. No: 44324

Printed: 2012.12.10 @ 10:52:21



## DRILL STEM TEST REPORT

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

PO Box 86  
Plainville KS 67663

ATTN: Charles R Ramsay

### **North Fork #36-1**

### **36-9s-25w Graham,KS**

Start Date: 2012.12.06 @ 03:02:41

End Date: 2012.12.06 @ 10:20:41

Job Ticket #: 50501                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.10 @ 10:51:13



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

H&C Oil Operating Inc

**36-9s-25w Graham,KS**

PO Box 86  
Plainville KS 67663

**North Fork #36-1**

Job Ticket: 50501

**DST#: 2**

ATTN: Charles R Ramsay

Test Start: 2012.12.06 @ 03:02:41

## GENERAL INFORMATION:

Formation: **LKC D-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:04:41

Time Test Ended: 10:20:41

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

**Interval: 3898.00 ft (KB) To 3952.00 ft (KB) (TVD)**

Reference Elevations: 2535.00 ft (KB)

Total Depth: 3952.00 ft (KB) (TVD)

2529.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 6.00 ft

**Serial #: 8321**

**Inside**

Press @ Run Depth: 77.88 psig @ 3934.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.12.06

End Date:

2012.12.06

Last Calib.:

2012.12.06

Start Time:

03:02:42

End Time:

10:16:41

Time On Btm:

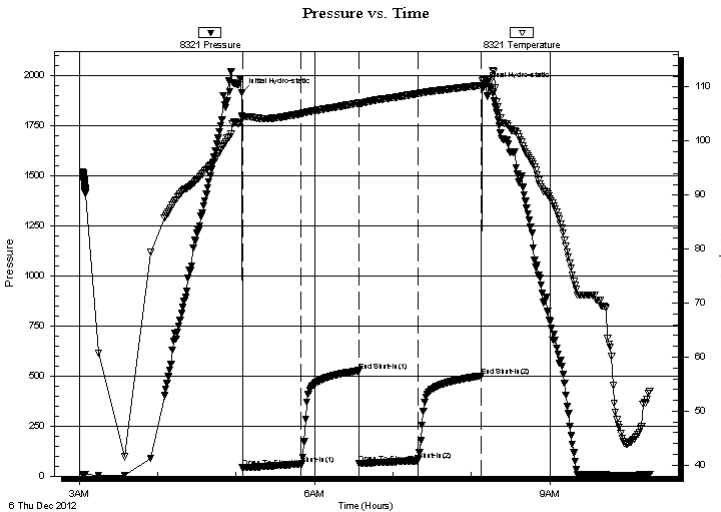
2012.12.06 @ 05:04:11

Time Off Btm:

2012.12.06 @ 08:08:11

**TEST COMMENT:** IFP-Fair blow built to 5 1/4"  
ISI-Dead no blow back  
FFP-Weak blow built to 3"  
FSI-Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1912.12	104.65	Initial Hydro-static
1	42.20	104.39	Open To Flow (1)
46	59.80	105.06	Shut-In(1)
90	526.26	107.00	End Shut-In(1)
90	65.33	106.85	Open To Flow (2)
135	77.88	108.75	Shut-In(2)
183	500.25	110.32	End Shut-In(2)
184	1944.31	111.21	Final Hydro-static

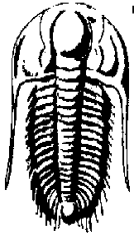
## Recovery

Length (ft)	Description	Volume (bbl)
65.00	MW with oil spots 20%M 80%W	0.91

\* 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

**36-9s-25w Graham,KS**

PO Box 86  
Plainville KS 67663

**North Fork #36-1**

ATTN: Charles R Ramsay

Job Ticket: 50501

**DST#: 2**

Test Start: 2012.12.06 @ 03:02:41

### GENERAL INFORMATION:

Formation: **LKC D-F**

Deviated: No Whipstock: ft (KB)

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Unit No: 44

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Reference Elevations: 2535.00 ft (KB)

Total Depth: 3952.00 ft (KB) (TVD)

2529.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 6.00 ft

**Serial #: 8737**

**Outside**

Press @ Run Depth: psig @ 3934.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.12.06

End Date:

2012.12.06

Last Calib.:

2012.12.06

Start Time:

03:02:42

End Time:

10:16:41

Time On Btm:

Time Off Btm:

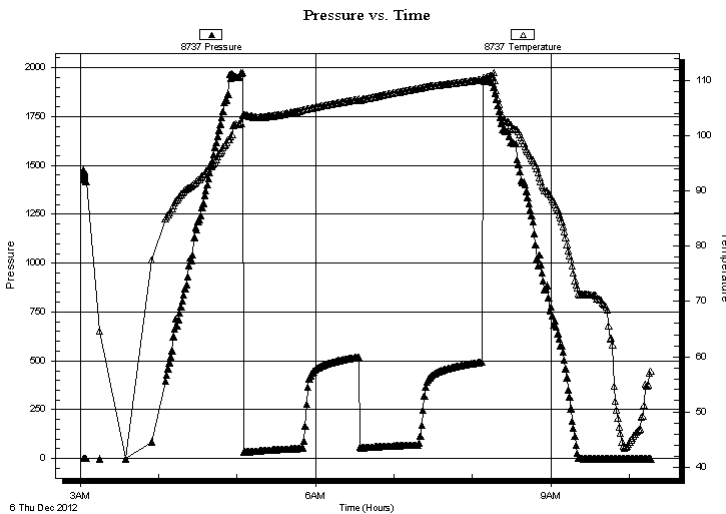
TEST COMMENT: IFP-Fair blow built to 5 1/4"

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FSI-Dead no blow back

### PRESSURE SUMMARY



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

### Recovery

Length (ft)	Description	Volume (bbl)
65.00	MW with oil spots 20%M 80%W	0.91

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H&C Oil Operating Inc

**36-9s-25w Graham,KS**

PO Box 86  
Plainville KS 67663

**North Fork #36-1**

Job Ticket: 50501

**DST#: 2**

ATTN: Charles R Ramsay

Test Start: 2012.12.06 @ 03:02:41

## Tool Information

Drill Pipe:	Length: 3902.00 ft	Diameter: 3.80 inches	Volume: 54.73 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 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:	65000.00 lb
			<u>Total Volume: 54.73 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3898.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	54.00 ft				
Tool Length:	74.00 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			3879.00	
Shut In Tool	5.00			3884.00	
Hydraulic tool	5.00			3889.00	
Packer	4.00			3893.00	20.00 Bottom Of Top Packer
Packer	5.00			3898.00	
Stubb	1.00			3899.00	
Perforations	3.00			3902.00	
Change Over Sub	1.00			3903.00	
Drill Pipe	30.00			3933.00	
Change Over Sub	1.00			3934.00	
Recorder	0.00	8321	Inside	3934.00	
Recorder	0.00	8737	Outside	3934.00	
Perforations	15.00			3949.00	
Bullnose	3.00			3952.00	54.00 Bottom Packers & Anchor

**Total Tool Length: 74.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H&C Oil Operating Inc

**36-9s-25w Graham,KS**

PO Box 86  
Plainville KS 67663

**North Fork #36-1**

Job Ticket: 50501

**DST#: 2**

ATTN: Charles R Ramsay

Test Start: 2012.12.06 @ 03:02:41

## 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:

bbbl

Water Loss: 7.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	MW w ith oil spots 20%M 80%W	0.912

Total Length: 65.00 ft      Total Volume: 0.912 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 8321

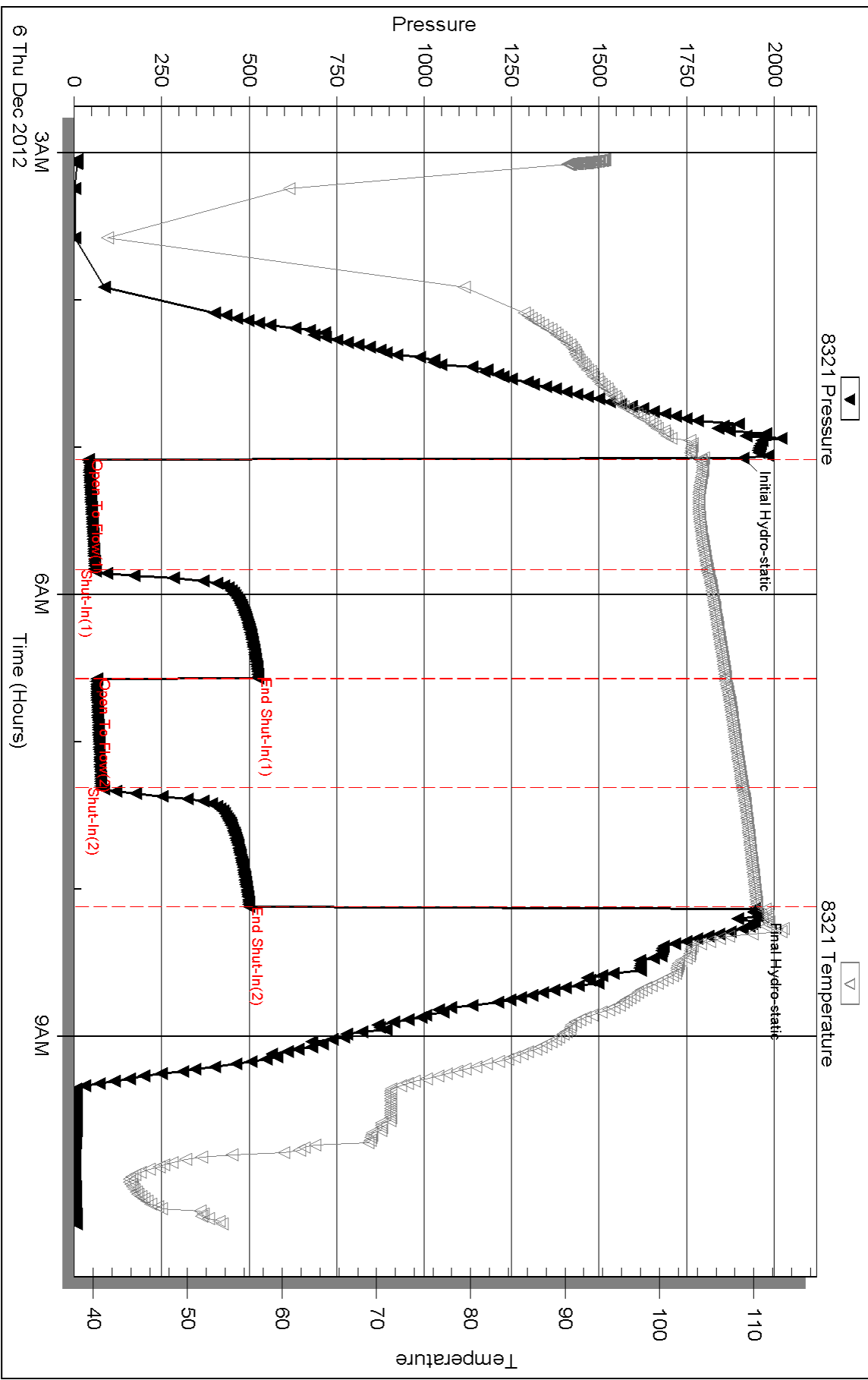
Inside

H&C Oil Operating Inc

North Fork #36-1

DST Test Number: 2

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 50501

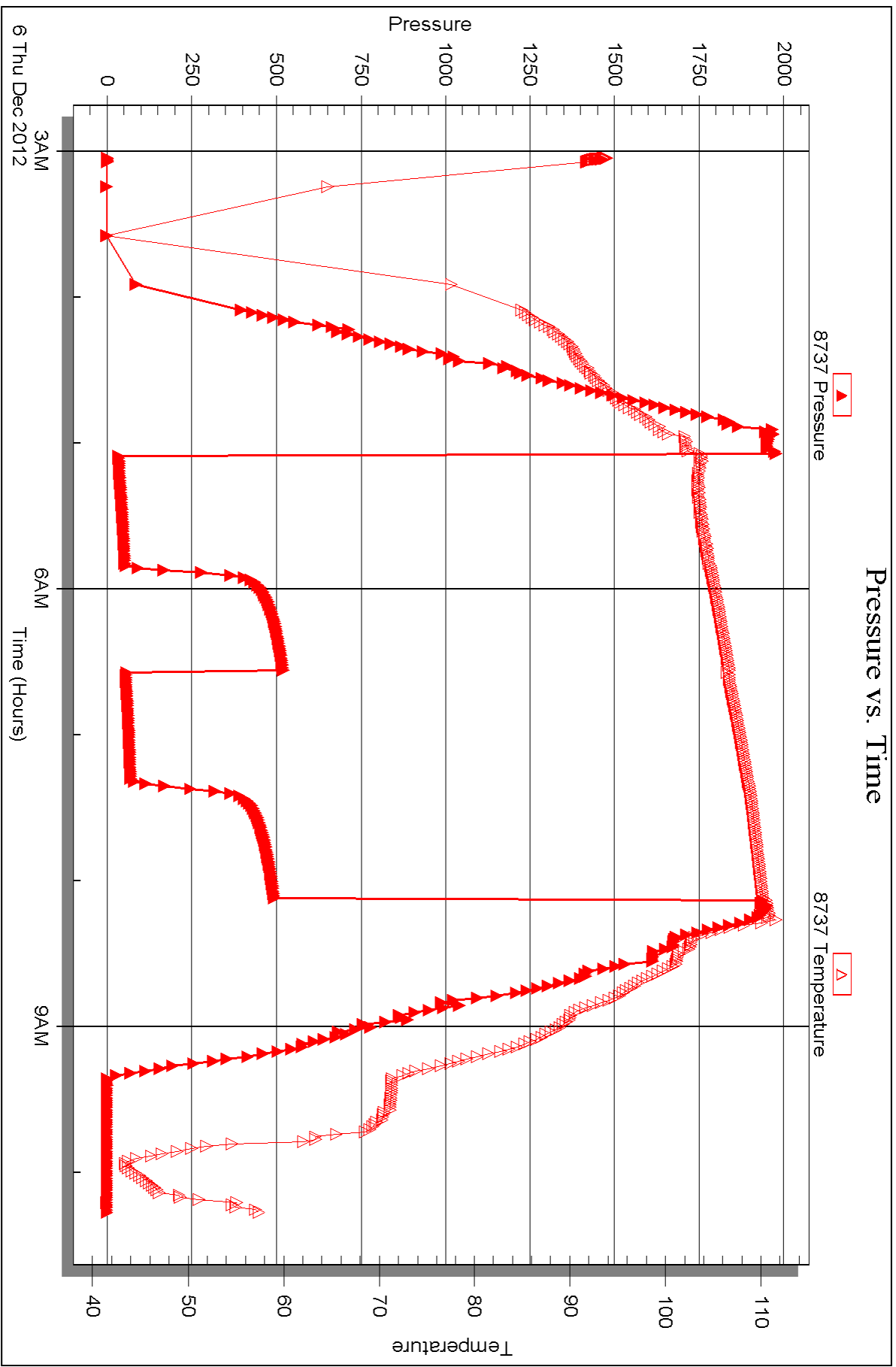
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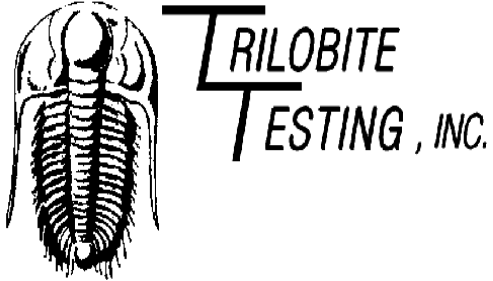
Serial #: 8737

Outside H&C Oil Operating Inc

North Fork #36-1

DST Test Number: 2





## DRILL STEM TEST REPORT

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

PO Box 86  
Plainville KS 67663

ATTN: Charles R Ramsay

### **North Fork #36-1**

### **36-9s-25w Graham,KS**

Start Date: 2012.12.06 @ 20:49:32

End Date: 2012.12.07 @ 04:45:02

Job Ticket #: 50502                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.10 @ 10:50:21



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

H&C Oil Operating Inc

**36-9s-25w Graham,KS**

PO Box 86  
Plainville KS 67663

**North Fork #36-1**

Job Ticket: 50502

**DST#: 3**

ATTN: Charles R Ramsay

Test Start: 2012.12.06 @ 20:49:32

## GENERAL INFORMATION:

Formation: **LKC-H-I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:20:02

Time Test Ended: 04:45:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

**Interval: 3981.00 ft (KB) To 4033.00 ft (KB) (TVD)**

Reference Elevations: 2535.00 ft (KB)

Total Depth: 4033.00 ft (KB) (TVD)

2529.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 6.00 ft

**Serial #: 8321**

**Inside**

Press @ RunDepth: 86.90 psig @ 4018.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.12.06

End Date:

2012.12.07

Last Calib.:

2012.12.07

Start Time: 20:49:33

End Time:

04:44:02

Time On Btm:

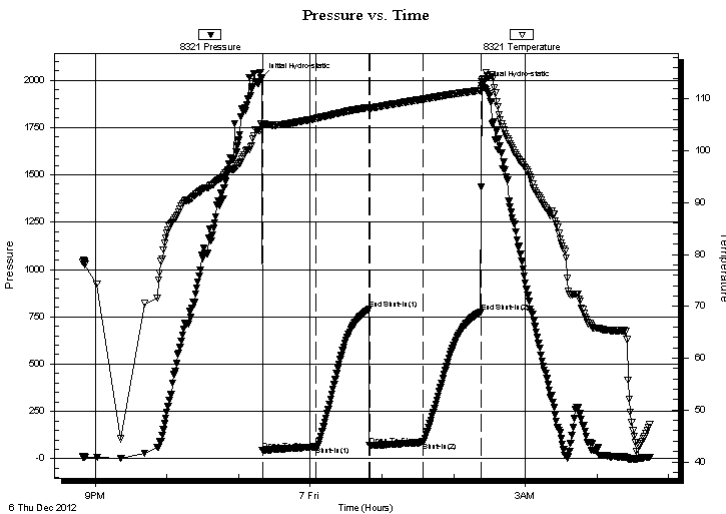
2012.12.06 @ 23:19:32

Time Off Btm:

2012.12.07 @ 02:23:32

**TEST COMMENT:** IFP=Fair blow built to 5 3/4"  
ISI=Dead no blow back  
FFP=Weak blow built to 3/4" died back to a 1/4"  
FSI=Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2011.65	105.21	Initial Hydro-static
1	44.61	104.86	Open To Flow (1)
46	63.68	106.25	Shut-In(1)
90	790.42	108.35	End Shut-In(1)
90	72.80	108.12	Open To Flow (2)
135	86.90	109.93	Shut-In(2)
183	775.68	111.65	End Shut-In(2)
184	1969.23	113.35	Final Hydro-static

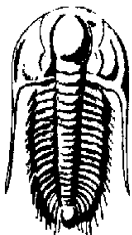
## Recovery

Length (ft)	Description	Volume (bbl)
63.00	WM with oil spots 20%W 80%M	0.88
15.00	SOCM 3%O 97%M	0.21

\* 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

ATTN: Charles R Ramsay

**36-9s-25w Graham,KS**

**North Fork #36-1**

Job Ticket: 50502

**DST#: 3**

Test Start: 2012.12.06 @ 20:49:32

### GENERAL INFORMATION:

Formation: **LKC-H-I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:20:02

Time Test Ended: 04:45:02

**Interval: 3981.00 ft (KB) To 4033.00 ft (KB) (TVD)**

Total Depth: 4033.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Reference Elevations: 2535.00 ft (KB)

2529.00 ft (CF)

KB to GR/CF: 6.00 ft

**Serial #: 8737** Outside

Press @RunDepth: psig @ 4018.00 ft (KB)

Start Date: 2012.12.06

End Date: 2012.12.07

Start Time: 20:49:17

End Time: 04:43:46

Capacity: 8000.00 psig

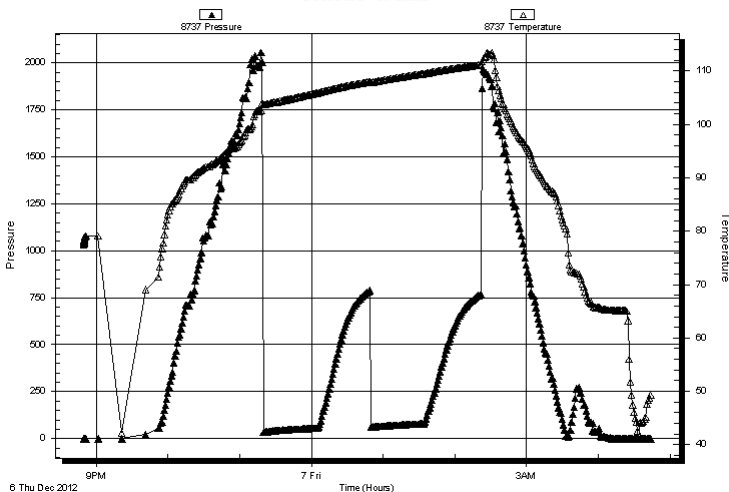
Last Calib.: 2012.12.07

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IFP=Fair blow built to 5 3/4"  
ISI=Dead no blow back  
FFP=Weak blow built to 3/4" died back to a 1/4"  
FSI=Dead no blow back

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
63.00	WM with oil spots 20%W 80%M	0.88
15.00	SOCM 3%O 97%M	0.21

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H&C Oil Operating Inc

**36-9s-25w Graham,KS**

PO Box 86  
Plainville KS 67663

**North Fork #36-1**

Job Ticket: 50502

**DST#: 3**

ATTN: Charles R Ramsay

Test Start: 2012.12.06 @ 20:49:32

## Tool Information

Drill Pipe:	Length: 3966.00 ft	Diameter: 3.80 inches	Volume: 55.63 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 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: 54000.00 lb
			<u>Total Volume: 55.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3981.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	72.00 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			3962.00	
Shut In Tool	5.00			3967.00	
Hydraulic tool	5.00			3972.00	
Packer	4.00			3976.00	20.00 Bottom Of Top Packer
Packer	5.00			3981.00	
Stubb	1.00			3982.00	
Perforations	3.00			3985.00	
Change Over Sub	1.00			3986.00	
Drill Pipe	31.00			4017.00	
Change Over Sub	1.00			4018.00	
Recorder	0.00	8321	Inside	4018.00	
Recorder	0.00	8737	Outside	4018.00	
Perforations	12.00			4030.00	
Bullnose	3.00			4033.00	52.00 Bottom Packers & Anchor

**Total Tool Length: 72.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H&C Oil Operating Inc

**36-9s-25w Graham,KS**

PO Box 86  
Plainville KS 67663

**North Fork #36-1**

Job Ticket: 50502

**DST#: 3**

ATTN: Charles R Ramsay

Test Start: 2012.12.06 @ 20:49:32

## 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:

bbbl

Water Loss: 7.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
63.00	WM w ith oil spots 20%W 80%M	0.884
15.00	SOCM 3%O 97%M	0.210

Total Length: 78.00 ft      Total Volume: 1.094 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

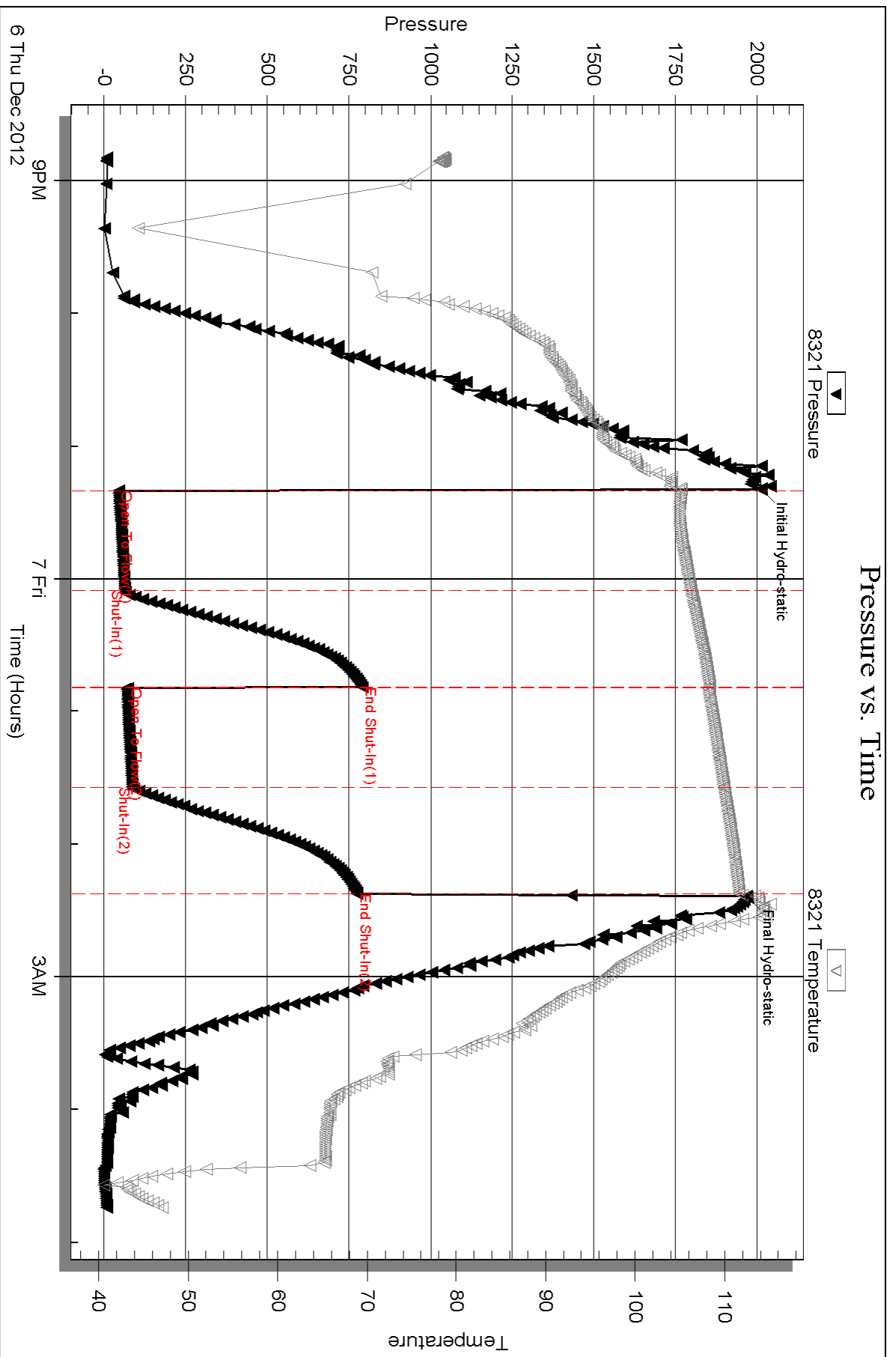
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Inside

H&C Oil Operating Inc

North Fork #36-1

DST Test Number: 3



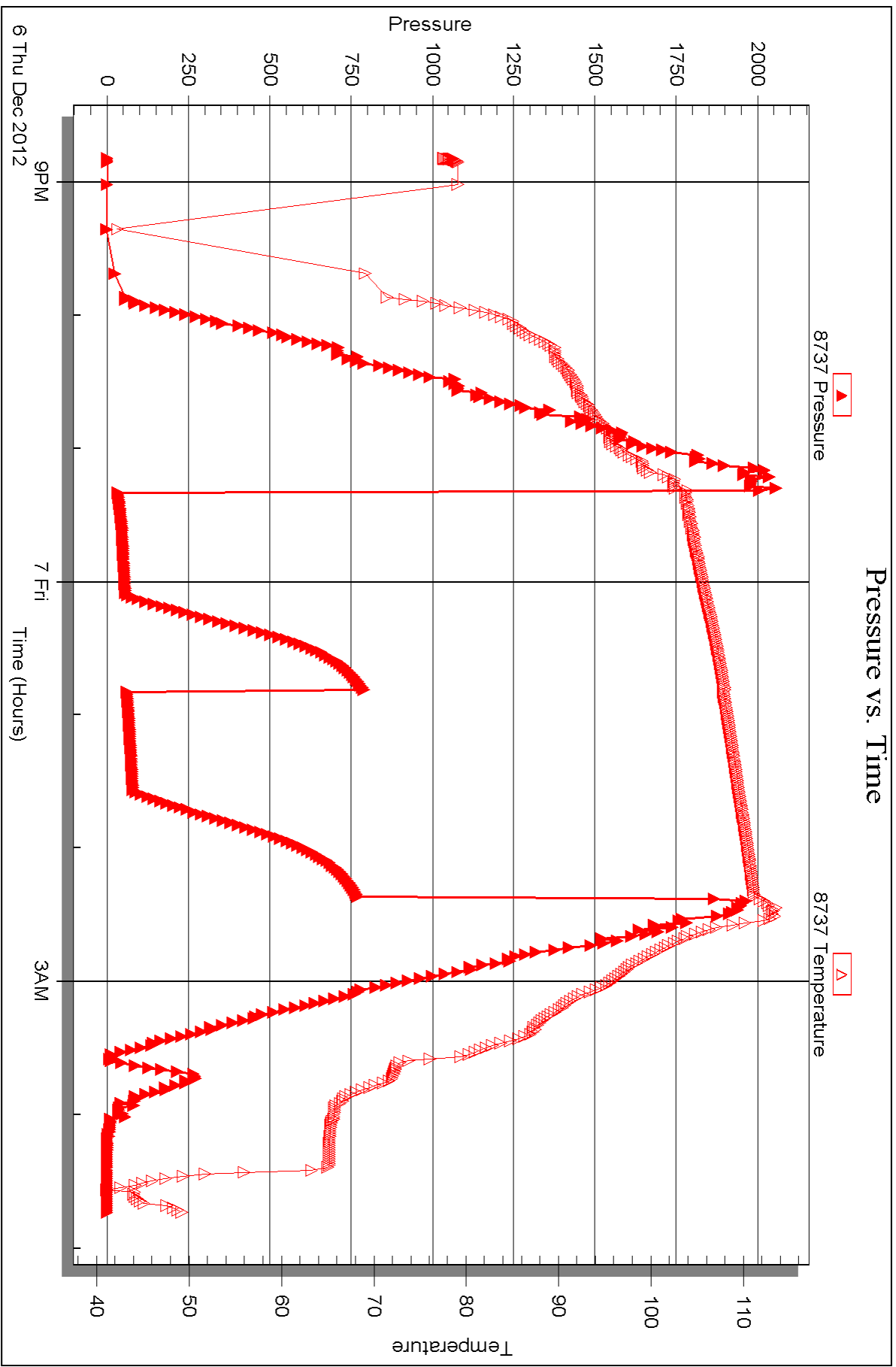


Serial #: 8737

Outside H&C Oil Operating Inc

North Fork #36-1

DST Test Number: 3





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 44324

Well Name & No. North Fork 326-1 Test No. 1 Date 12-5-12  
 Company H + C oil operating INC Elevation 2535 KB 2529 GL  
 Address PO Box 86 Plainville Ks 67663  
 Co. Rep / Geo. Marc Downing Rig American Eagle #3  
 Location: Sec. 36 Twp. 9s Rge. 25W Co. Graham State Ks

Interval Tested 3852-3900 Zone Tested LKC-A-C  
 Anchor Length 48 Drill Pipe Run 3839 Mud Wt. 9.2  
 Top Packer Depth 3847 Drill Collars Run 0 Vis 58  
 Bottom Packer Depth 3852 Wt. Pipe Run 0 WL 7.4  
 Total Depth 3900 Chlorides 1200 ppm System LCM 2  
 Blow Description 1st-Strong Blow Bob IN 2 1/2 min  
2nd-Weak surface Blow Back  
3rd-GOOD Blow Bob IN 5 min  
4th-Dead No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>558</u>	<u>Feet of MW</u>			<u>80%</u>	<u>20%</u>
<u>155</u>	<u>Feet of WM with oil spots</u>			<u>25%</u>	<u>75%</u>

Rec Total 713 BHT 118 Gravity \_\_\_\_\_ API RW .138 @ 60.0 °F Chlorides 65,000 ppm

(A) Initial Hydrostatic 1929  Test 1150 T-On Location 11:10  
 (B) First Initial Flow 87  Jars \_\_\_\_\_ T-Started 00:18  
 (C) First Final Flow 268  Safety Joint \_\_\_\_\_ T-Open 14:28  
 (D) Initial Shut-In 708  Circ Sub \_\_\_\_\_ T-Pulled 15:48  
 (E) Second Initial Flow 272  Hourly Standby \_\_\_\_\_ T-Out 18:21  
 (F) Second Final Flow 371  Mileage 122 RT 189.10 Comments \_\_\_\_\_  
 (G) Final Shut-In 703  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1896  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1339.10  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1339.10

Initial Open 15  
 Initial Shut-In 30  
 Final Flow 15  
 Final Shut-In 30

Approved By \_\_\_\_\_ Our Representative Jeff Brown

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. 50501

Well Name & No. North Fork 326-1 Test No. 2 Date 12-6-12  
 Company H+C Oil Operating INC Elevation 2535 KB 2529 GL  
 Address PO Box 826 Plainville KS 67463  
 Co. Rep / Geo. Marc Downing Rig American Eagle #3  
 Location: Sec. 326 Twp. 9S Rge. 25W Co. Graham State KS

Interval Tested 3898-3952 Zone Tested LKC-D-F  
 Anchor Length 54 Drill Pipe Run 3902 Mud Wt. 9.2  
 Top Packer Depth 3893 Drill Collars Run 0 Vis 58  
 Bottom Packer Depth 3898 Wt. Pipe Run 0 WL 7.4  
 Total Depth 3952 Chlorides 1200 ppm System LCM 2

Blow Description IFP - Fair Blow Built To 5 1/4 IN  
IST - Dead No Blow Back  
FFP - Weak Blow Built To 3 IN  
FST - Dead No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>405</u>	<u>MW with oil spots</u>			<u>80</u>	<u>20</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 405 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW .188 @ 48.8° F Chlorides 60,000 ppm

(A) Initial Hydrostatic 1912  Test 1150 T-On Location 2:08  
 (B) First Initial Flow 42  Jars \_\_\_\_\_ T-Started 3:02  
 (C) First Final Flow 60  Safety Joint \_\_\_\_\_ T-Open 5:04  
 (D) Initial Shut-In 526  Circ Sub \_\_\_\_\_ T-Pulled 8:04  
 (E) Second Initial Flow 405  Hourly Standby \_\_\_\_\_ T-Out 10:20  
 (F) Second Final Flow 78  Mileage 189.10 Comments \_\_\_\_\_  
 (G) Final Shut-In 500  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1944  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 1339.10  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1339.100

Approved By \_\_\_\_\_ Our Representative Jeff Brown

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. 50502

Well Name & No. North Fork Test No. 3 Date 12-6-12  
 Operator H+C Oil Operating INC Elevation 2535 KB 2529 GL  
 Address Po Box 840 Plainville KS 67463  
 Geology Marc Downing Rig American Eagle #3  
 Section 36 Twp. 9S Rge. 25W Co. Graham State KS

Well ID 3981-4033 Zone Tested LKC-H&I  
 Depth 52 Drill Pipe Run 3940 Mud Wt. 9.4  
 True Depth 3976 Drill Collars Run 0 Vis 58  
 Apparent Depth 3981 Wt. Pipe Run 0 WL 7.8  
 Chlorides 1200 ppm System LCM 2

Condition IP- fair Blow Built To 5 3/4 IN  
IST- Dead No Blow Back  
FP- weak Blow Built To 3/4 IN Died Back To 1/4 IN  
FST- Dead No Blow Back

Feet of	%gas	%oil	%water	%mud
<u>3</u>			<u>20%</u>	<u>80%</u>
<u>5</u>		<u>3%</u>		<u>97%</u>
Feet of	%gas	%oil	%water	%mud
Feet of	%gas	%oil	%water	%mud
Feet of	%gas	%oil	%water	%mud

78 BHT 112 Gravity \_\_\_\_\_ API RW 295 @ 48.1 °F Chlorides 34,000 ppm

Hydrostatic 2012  Test 1250 T-On Location 20:28  
 Initial Flow 45  Jars \_\_\_\_\_ T-Started 20:49  
 Final Flow 64  Safety Joint \_\_\_\_\_ T-Open 23:20  
 Shut-In 790  Circ Sub \_\_\_\_\_ T-Pulled 2:20  
 Initial Flow 73  Hourly Standby \_\_\_\_\_ T-Out 4:45  
 Final Flow 87  Mileage 189.10 Comments \_\_\_\_\_  
 Shut-In 776  Sampler \_\_\_\_\_  
 Hydrostatic 1969  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
45  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
45  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
45  Extra Recorder \_\_\_\_\_ Sub Total 0  
45  Day Standby \_\_\_\_\_ Total 1339.10  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1339.10

Our Representative Jeff Brown

By \_\_\_\_\_ 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 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

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

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

No. 6279

Date	11-30-12	36	9	25	GRAHAM	KANSAS	4:00 PM
------	----------	----	---	----	--------	--------	---------

Lease NORTH Fork  
 Well No. 36-1  
 Location WAKESNEY NTS HED-10160-WFZATO  
 Owner H&C OIL

Contractor R.E.  
 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  
 Hole Size 12 1/4"  
 T.D. 232'  
 Csg. 8 7/8"  
 Depth 232'  
 Tbg. Size  
 Depth  
 Tool  
 Depth  
 Cement Left in Csg. 15'
 Shoe Joint 15'
 Cement Amount Ordered 150 cems 3% - 2 gal

Meas Line  
 Displace 13 3/4 BBLs  
 EQUIPMENT  
 Common 150

Pumptrk #15	No. Cementer	Helper	NICK
Bulktrk #8	No. Driver	Driver	BOUG
Bulktrk #4	No. Driver	Driver	CISCO

POZ. MIX 3  
 GEL 3  
 CALCIUM 5  
 UTILS  
 SALT  
 FLOWSEAL  
 KOL-SEAL  
 MUD CLR 48  
 CFL-117 or CD110 CAF 38  
 SAND  
 HANDLING 158  
 MILEAGE  
 FLOAT EQUIPMENT

GUIDE SHOE  
 CENTRALIZER  
 BASKETS  
 AFU INSERTS  
 FLOAT SHOE  
 LATCH DOWN  
 PUMPTRK CHARGE  
 MILEAGE 31  
 SURFACE

TAX  
 DISCOUNT  
 TOTAL CHARGE

THANK YOU  
 Signature: *Quang Phat Phan*

# 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. 6245

Date	12-11-12	Sec.	36	Twp.	g	Range	25	County	Graham	State	KS	On Location	5:30pm	Finish	10:45pm																
Lease	North Fork																														
Well No.	36-1																														
Contractor	American Egel 3																														
Type Job	Plug																														
Hole Size	T.D. 4033																														
Csg.	Dill Pipe																														
Tbg. Size																															
Tool																															
Cement Left in Csg.																															
Meas Line																															
<p><b>EQUIPMENT</b></p> <table border="1"> <tr> <td>Pumptrk</td> <td>No.</td> <td>Cement</td> <td>Helper</td> <td>Matt</td> </tr> <tr> <td>Bulktrk</td> <td>8</td> <td>Driver</td> <td>Brett</td> <td></td> </tr> <tr> <td>Bulktrk</td> <td>94</td> <td>Driver</td> <td>Kennie</td> <td></td> </tr> </table>																Pumptrk	No.	Cement	Helper	Matt	Bulktrk	8	Driver	Brett		Bulktrk	94	Driver	Kennie		
Pumptrk	No.	Cement	Helper	Matt																											
Bulktrk	8	Driver	Brett																												
Bulktrk	94	Driver	Kennie																												
<b>JOB SERVICES &amp; REMARKS</b>																															
Remarks:																															
Rat Hole	305 ft																														
Mouse Hole	<del>305 ft</del>																														
Centralizers																															
Baskets																															
DN or Port Collar																															
ST	2900 ft	25 SX																													
and	1330 ft	100 SX																													
and	780 ft	40 SX																													
and	40 ft	10 SX																													
North Fork 36-1																															
<p><b>FLOAT EQUIPMENT</b></p> <table border="1"> <tr> <td>Guide Shoe</td> <td><del>2</del></td> </tr> <tr> <td>Centralizer</td> <td></td> </tr> <tr> <td>Baskets</td> <td></td> </tr> <tr> <td>AFU Inserts</td> <td></td> </tr> <tr> <td>Float Shoe</td> <td></td> </tr> <tr> <td>Latch Down</td> <td></td> </tr> <tr> <td>Pumptrk Charge</td> <td>Plug</td> </tr> <tr> <td>Mileage</td> <td>31</td> </tr> </table>																Guide Shoe	<del>2</del>	Centralizer		Baskets		AFU Inserts		Float Shoe		Latch Down		Pumptrk Charge	Plug	Mileage	31
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<p><b>Owner</b></p> <p>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.</p> <p>Charge To: HFC</p> <p>Street: HFC</p> <p>City: State:</p> <p>The above was done to satisfaction and supervision of owner agent or contractor.</p> <p>Cement Amount Ordered: <del>230</del> 230 bags 1/4 flow</p> <p>Common: 138</p> <p>Poz. Mix: 92</p> <p>Gel: 8</p> <p>Calcium:</p> <p>Hulls:</p> <p>Salt:</p> <p>Flowseal: 50 ft</p> <p>Kol-Seal:</p> <p>Mud CLR 48</p> <p>CFL-117 or CD110 CAF 38</p> <p>Sand:</p> <p>Handling: 238</p> <p>Mileage:</p>																															
<p><b>Tax</b></p> <p>Pumptrk Charge</p>																															
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Signature: *Kennie*