



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1082574  
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: \_\_\_\_\_

1082574

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

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

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

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

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

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

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

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

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

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

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

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

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

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</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	Fink 27-1
Doc ID	1082574

All Electric Logs Run

Microresistivity Log
Dual Induction Log
Dual Compensated Porosity Log
Sonic Cement Bond Log

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  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

May 30, 2012

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

Re: ACO1  
API 15-065-23822-00-00  
Fink 27-1  
NE/4 Sec.27-08S-22W  
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 R. Ramsay



## DRILL STEM TEST REPORT

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

PO Box 86  
Plainville KS 67663

ATTN: Marc Downing

**Fink # 27-1**

**27-8s-22w Graham,KS**

Start Date: 2012.04.04 @ 08:38:00

End Date: 2012.04.04 @ 15:44:30

Job Ticket #: 042482          DST #: 1

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

Printed: 2012.04.11 @ 08:43:46



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

H & C Oil Operating Inc

**27-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Fink # 27-1**

Job Ticket: 042482

**DST#: 1**

ATTN: Marc Downing

Test Start: 2012.04.04 @ 08:38:00

## GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: 2159.00 ft (KB)

Time Tool Opened: 10:42:00

Time Test Ended: 15:44:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 43

**Interval: 3391.00 ft (KB) To 3414.00 ft (KB) (TVD)**

Reference Elevations: 2159.00 ft (KB)

Total Depth: 3414.00 ft (KB) (TVD)

2154.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6799**

**Inside**

Press @ Run Depth: 51.31 psig @ 3392.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.04

End Date:

2012.04.04

Last Calib.:

2012.04.04

Start Time: 08:38:05

End Time:

15:44:29

Time On Btm:

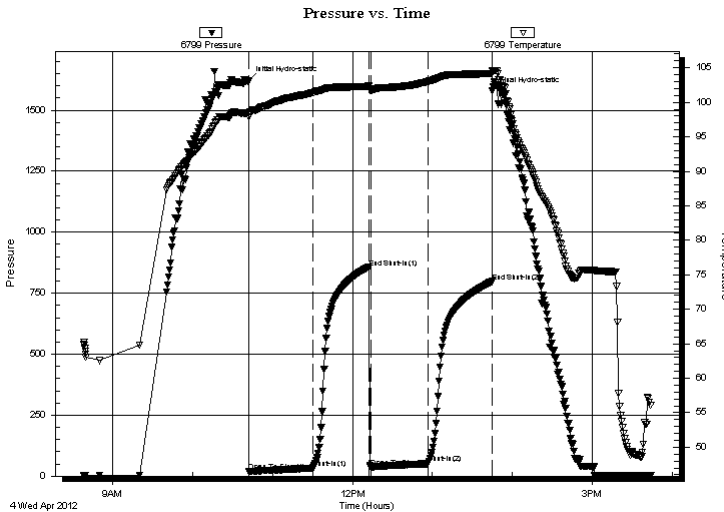
2012.04.04 @ 10:41:45

Time Off Btm:

2012.04.04 @ 13:45:00

**TEST COMMENT:** 45-IFP- BOB in 41 min  
45-ISIP- No Blow  
45-FFP- BOB in 36 min  
45-FSIP- Surface Blow in 6min Died in 12 min

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1619.75	98.43	Initial Hydro-static
1	17.99	97.85	Open To Flow (1)
49	33.67	101.41	Shut-In(1)
91	852.80	102.34	End Shut-In(1)
92	34.93	101.75	Open To Flow (2)
135	51.31	103.02	Shut-In(2)
183	797.46	104.16	End Shut-In(2)
184	1578.33	104.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
95.00	GO 10%g 90%o	1.33
0.00	215 GIP	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H & C Oil Operating Inc

**27-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Fink # 27-1**

Job Ticket: 042482

**DST#: 1**

ATTN: Marc Downing

Test Start: 2012.04.04 @ 08:38:00

## Tool Information

Drill Pipe:	Length: 3403.00 ft	Diameter: 3.80 inches	Volume: 47.74 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 63000.00 lb
			<u>Total Volume: 47.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3391.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3372.00	
Shut In Tool	5.00			3377.00	
Hydraulic tool	5.00			3382.00	
Packer	5.00			3387.00	20.00 Bottom Of Top Packer
Packer	4.00			3391.00	
Stubb	1.00			3392.00	
Recorder	0.00	8655	Inside	3392.00	
Recorder	0.00	6799	Inside	3392.00	
Perforations	17.00			3409.00	
Bullnose	5.00			3414.00	23.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>43.00</b>				





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H & C Oil Operating Inc

**27-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Fink # 27-1**

Job Ticket: 042482

**DST#: 1**

ATTN: Marc Downing

Test Start: 2012.04.04 @ 08:38:00

## 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: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
95.00	GO 10%g 90%o	1.333
0.00	215 GIP	0.000

Total Length: 95.00 ft      Total Volume: 1.333 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

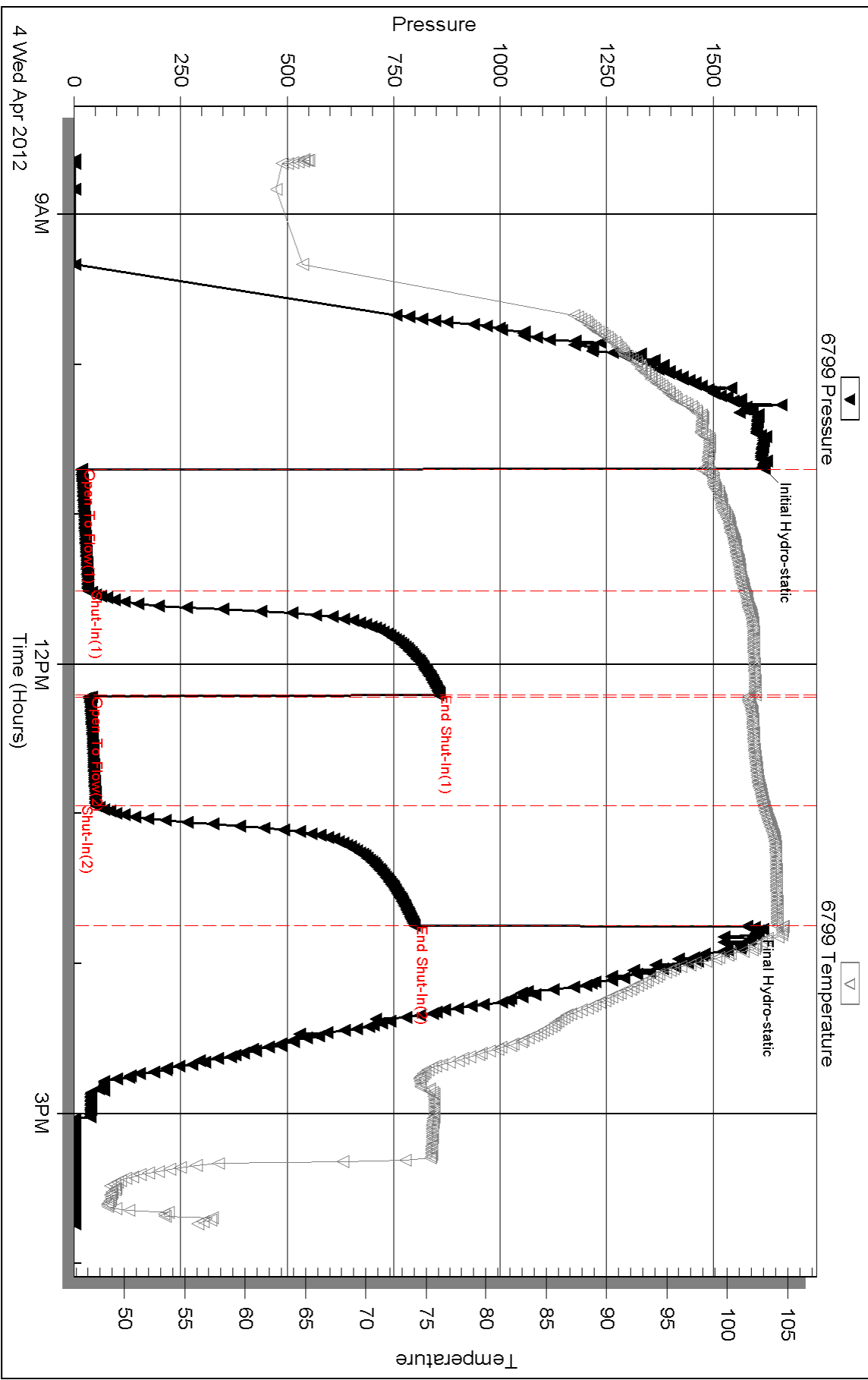
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



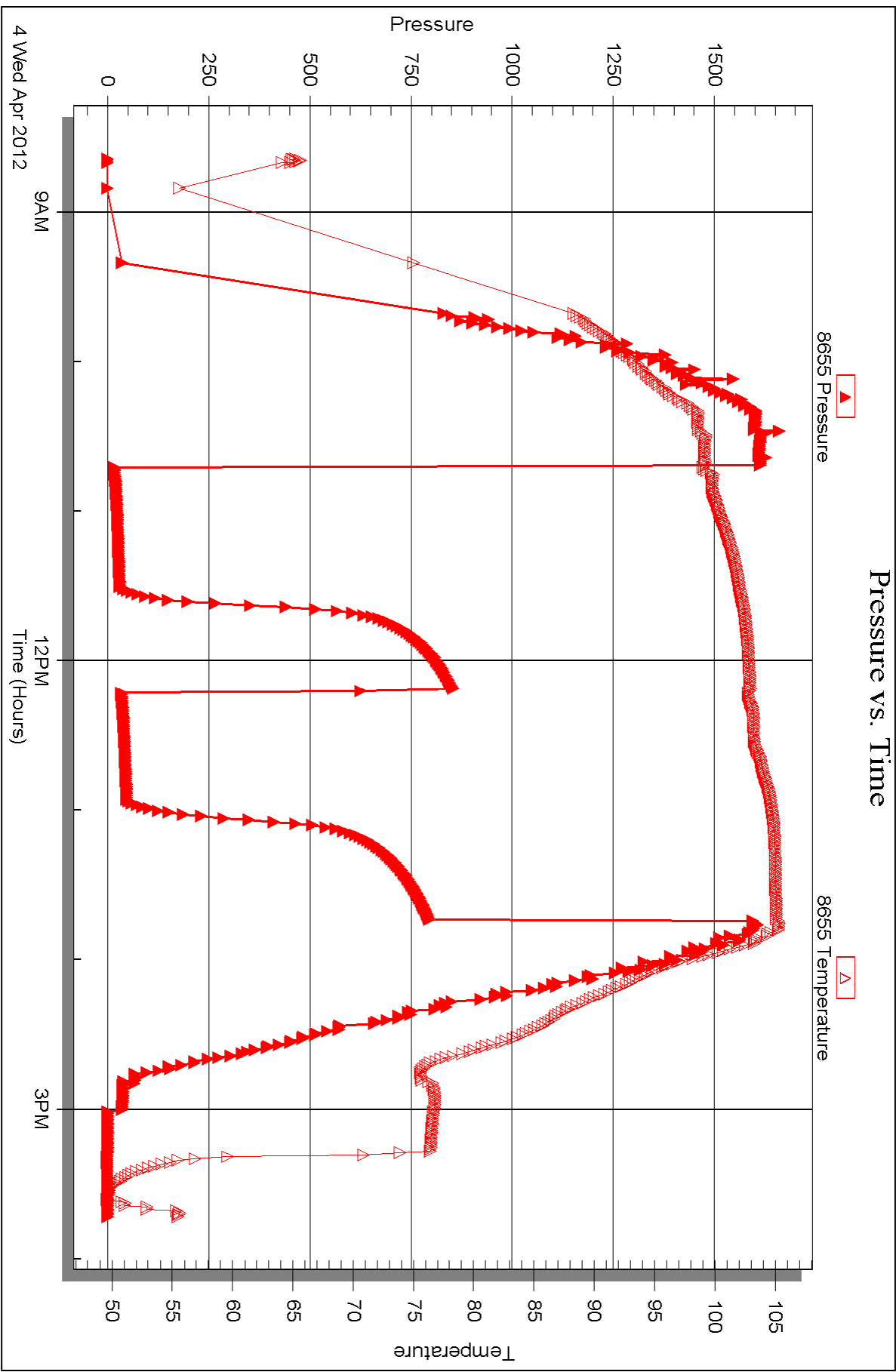
Serial #: 8655

Inside

H & C Oil Operating Inc

Fink # 27-1

DST Test Number: 1





## DRILL STEM TEST REPORT

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

PO Box 86  
Plainville KS 67663

ATTN: Marc Downing

### **Fink # 27-1**

### **27-8s-22w Graham,KS**

Start Date: 2012.04.05 @ 00:55:00

End Date: 2012.04.05 @ 08:08:15

Job Ticket #: 042483                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.04.11 @ 08:38:00



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**27-8s-22w Graham,KS**

**Fink # 27-1**

Job Ticket: 042483

**DST#: 2**

Test Start: 2012.04.05 @ 00:55:00

## GENERAL INFORMATION:

Formation: **LKC "E & F"**

Deviated: No Whipstock: 2159.00 ft (KB)

Time Tool Opened: 03:07:00

Time Test Ended: 08:08:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 43

**Interval: 3456.00 ft (KB) To 3484.00 ft (KB) (TVD)**

Reference Elevations: 2159.00 ft (KB)

Total Depth: 3484.00 ft (KB) (TVD)

2154.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6799**

**Inside**

Press @ Run Depth: 327.91 psig @ 3457.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.05

End Date:

2012.04.05

Last Calib.: 2012.04.05

Start Time: 00:55:05

End Time:

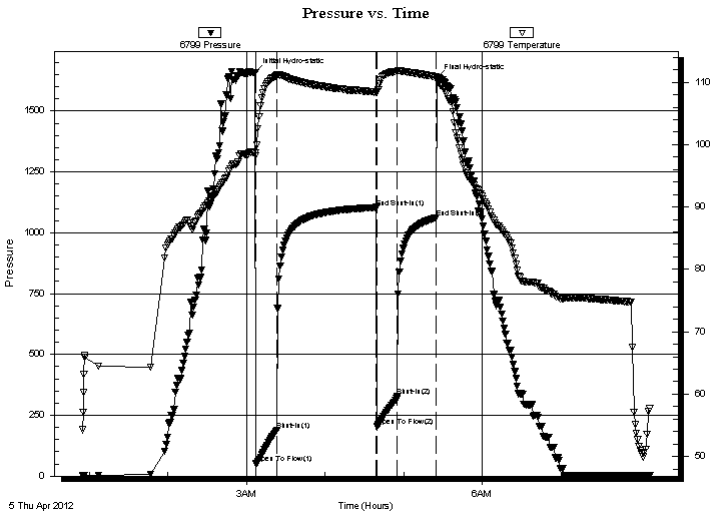
08:08:14

Time On Btm: 2012.04.05 @ 03:06:45

Time Off Btm: 2012.04.05 @ 05:25:45

**TEST COMMENT:** 15-IFP- BOB in 3 min  
77-ISIP- Surface Blow in 20 min  
15-FFP- BOB in 3 1/2 min  
30-FSIP- Surface Blow in 12 min

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1659.10	98.74	Initial Hydro-static
1	52.22	98.18	Open To Flow (1)
17	189.03	111.03	Shut-In(1)
93	1103.92	108.41	End Shut-In(1)
93	202.94	108.30	Open To Flow (2)
109	327.91	111.75	Shut-In(2)
139	1061.89	110.89	End Shut-In(2)
139	1635.15	110.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	W&MCO 20%w 25%m 55%o	0.42
62.00	O&MCW 10%o 40% m 50%w	0.87
62.00	SLO&MCW 2%o 20%m 78%w	0.87
496.00	SLO&MCW 1%o 9%m 90%w	6.96
0.00	186 GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H & C Oil Operating Inc

**27-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Fink # 27-1**

Job Ticket: 042483

**DST#: 2**

ATTN: Marc Downing

Test Start: 2012.04.05 @ 00:55:00

## Tool Information

Drill Pipe:	Length: 3463.00 ft	Diameter: 3.80 inches	Volume: 48.58 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 48.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3456.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3437.00	
Shut In Tool	5.00			3442.00	
Hydraulic tool	5.00			3447.00	
Packer	5.00			3452.00	20.00 Bottom Of Top Packer
Packer	4.00			3456.00	
Stubb	1.00			3457.00	
Recorder	0.00	8655	Inside	3457.00	
Recorder	0.00	6799	Inside	3457.00	
Perforations	22.00			3479.00	
Bullnose	5.00			3484.00	28.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>48.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H & C Oil Operating Inc

**27-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Fink # 27-1**

Job Ticket: 042483

**DST#: 2**

ATTN: Marc Downing

Test Start: 2012.04.05 @ 00:55:00

## 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: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	W&MCO 20%w 25%m 55%o	0.421
62.00	O&MCW 10%o 40% m 50%w	0.870
62.00	SLO&MCW 2%o 20%m 78%w	0.870
496.00	SLO&MCW 1%o 9%m 90%w	6.958
0.00	186 GIP	0.000

Total Length: 650.00 ft

Total Volume: 9.119 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

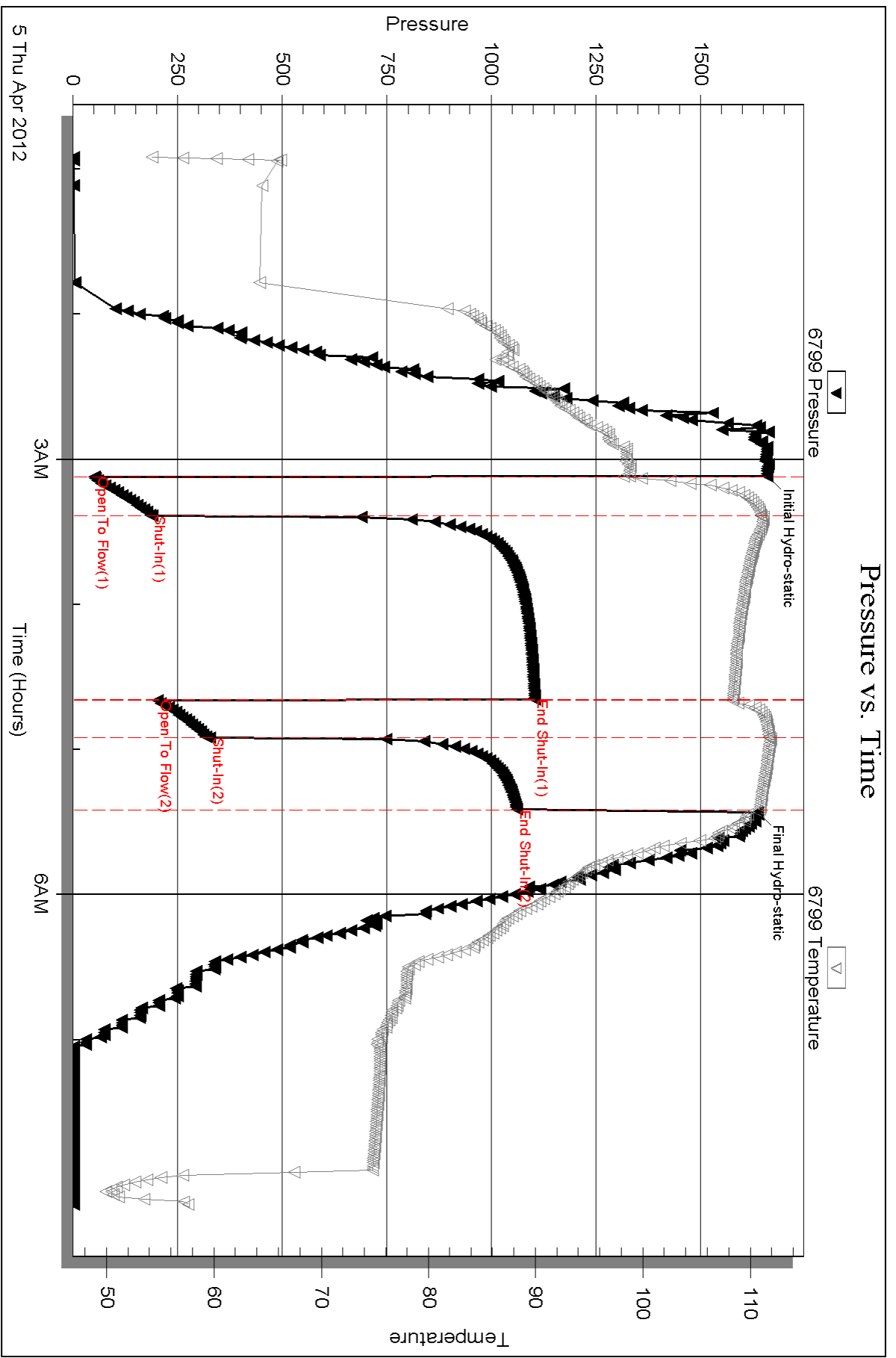
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





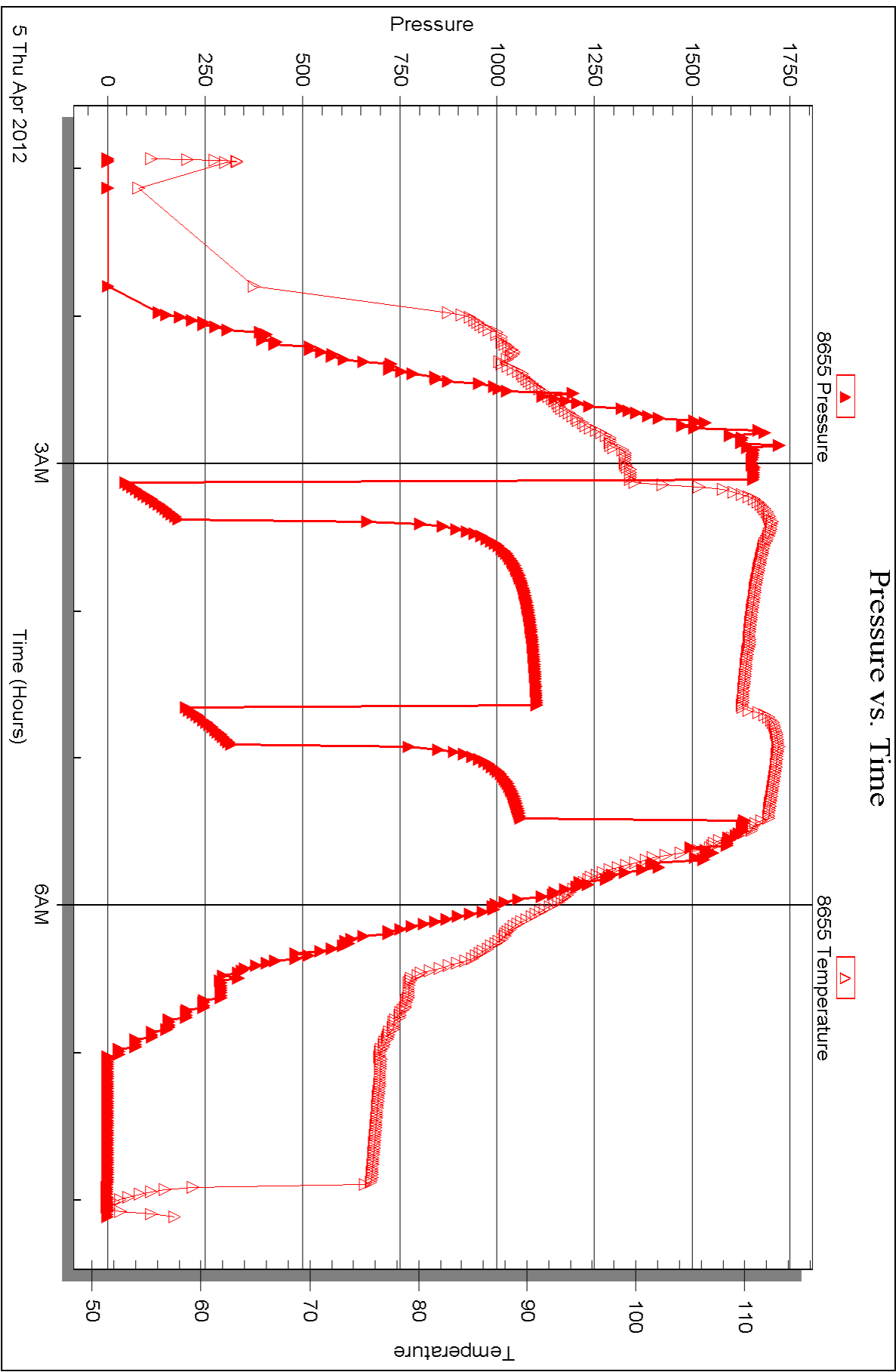
Serial #: 8655

Inside

H & C Oil Operating Inc

Fink # 27-1

DST Test Number: 2





## DRILL STEM TEST REPORT

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

PO Box 86  
Plainville KS 67663

ATTN: Marc Downing

**Fink # 27-1**

**27-8s-22w Graham,KS**

Start Date: 2012.04.05 @ 15:27:00

End Date: 2012.04.05 @ 23:04:15

Job Ticket #: 46111                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.04.11 @ 08:30:18



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**27-8s-22w Graham,KS**

**Fink # 27-1**

Job Ticket: 46111

**DST#: 3**

Test Start: 2012.04.05 @ 15:27:00

## GENERAL INFORMATION:

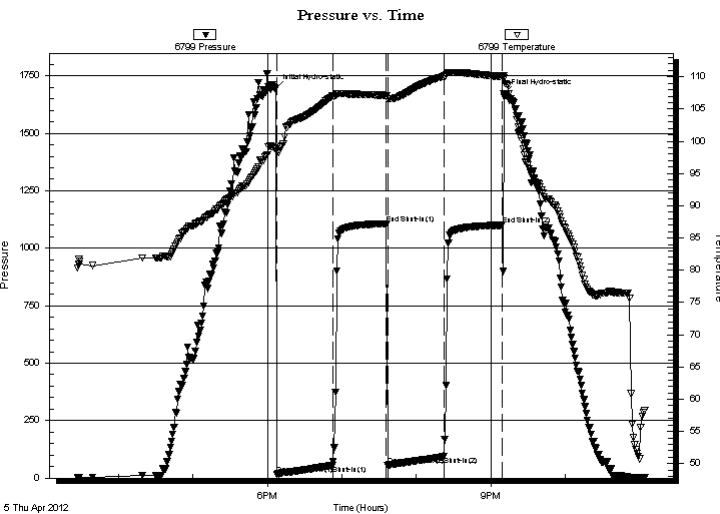
Formation: **LKC "H"**  
 Deviated: No Whipstock: 2159.00 ft (KB)  
 Time Tool Opened: 18:07:45  
 Time Test Ended: 23:04:15  
 Interval: **3512.00 ft (KB) To 3545.00 ft (KB) (TVD)**  
 Total Depth: 3545.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Kevin Mack  
 Unit No: 43  
 Reference Elevations: 2159.00 ft (KB)  
 2154.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 6799

Inside

Press @ Run Depth: 93.77 psig @ 3513.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.04.05 End Date: 2012.04.05 Last Calib.: 2012.04.05  
 Start Time: 15:27:05 End Time: 23:04:14 Time On Btm: 2012.04.05 @ 18:06:45  
 Time Off Btm: 2012.04.05 @ 21:10:15

TEST COMMENT: IF- 1/4" Blow built to 9"  
 IS- No Return  
 FF- Surface Blow built to 9"  
 FS- No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1695.19	98.87	Initial Hydro-static
1	17.17	98.29	Open To Flow (1)
46	55.52	107.02	Shut-In(1)
89	1107.29	107.10	End Shut-In(1)
90	57.20	106.55	Open To Flow (2)
135	93.77	110.06	Shut-In(2)
182	1100.25	110.03	End Shut-In(2)
184	1673.37	110.18	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 10M 90W	1.68
28.00	MW 40M 60W	0.39
2.00	Free Oil	0.03

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H & C Oil Operating Inc

**27-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Fink # 27-1**

Job Ticket: 46111

**DST#: 3**

ATTN: Marc Downing

Test Start: 2012.04.05 @ 15:27:00

### Tool Information

Drill Pipe:	Length: 3493.00 ft	Diameter: 3.80 inches	Volume: 49.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 49.00 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3512.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	54.00 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			3492.00	
Shut In Tool	5.00			3497.00	
Hydraulic tool	5.00			3502.00	
Packer	5.00			3507.00	21.00 Bottom Of Top Packer
Packer	5.00			3512.00	
Stubb	1.00			3513.00	
Recorder	0.00	8648	Inside	3513.00	
Recorder	0.00	6799	Inside	3513.00	
Perforations	27.00			3540.00	
Bullnose	5.00			3545.00	33.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>54.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H & C Oil Operating Inc

**27-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Fink # 27-1**

Job Ticket: 46111

**DST#: 3**

ATTN: Marc Downing

Test Start: 2012.04.05 @ 15:27:00

## 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:

30000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	MW 10M 90W	1.683
28.00	MW 40M 60W	0.393
2.00	Free Oil	0.028

Total Length: 150.00 ft      Total Volume: 2.104 bbl

Num Fluid Samples: 0

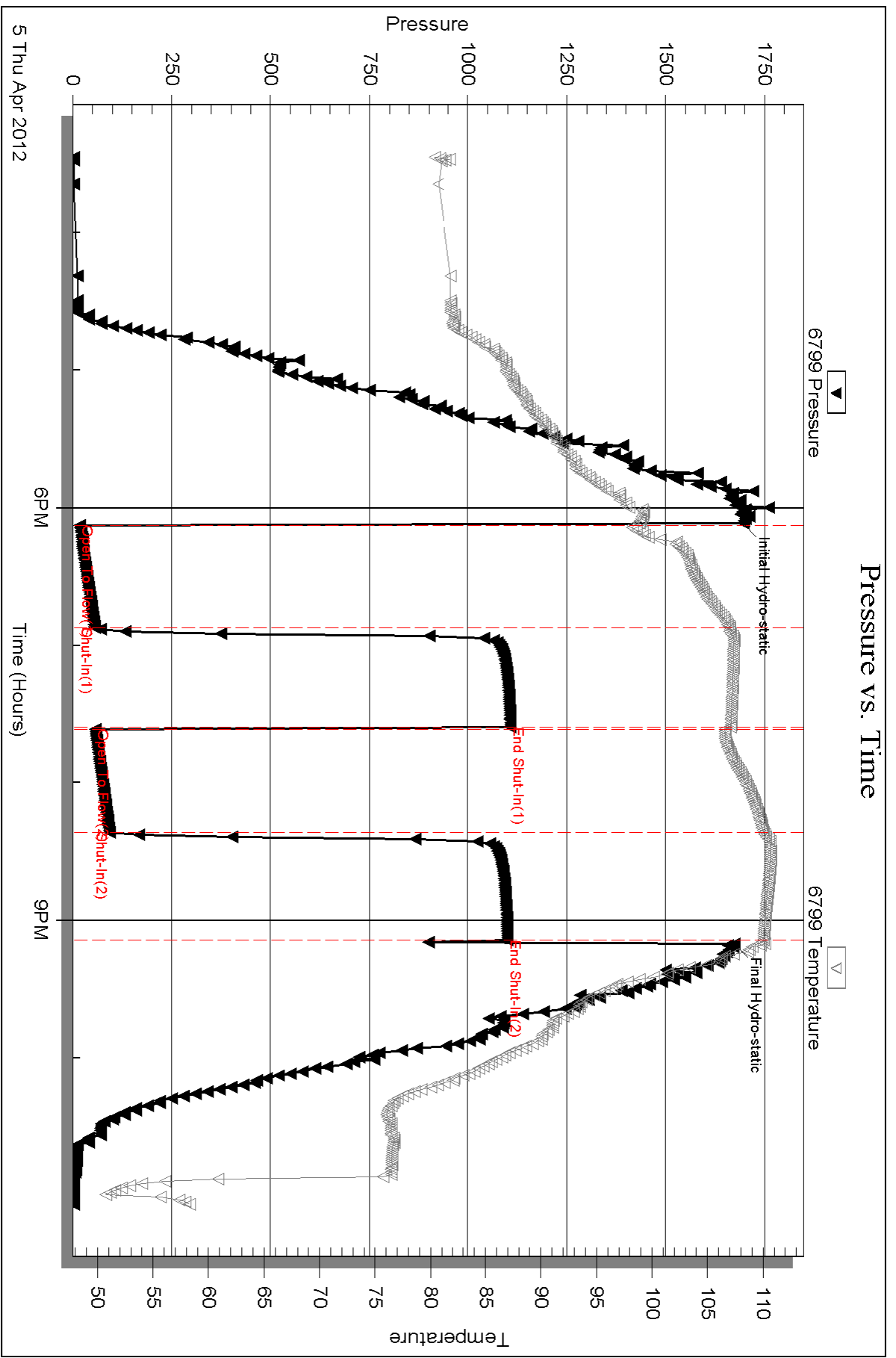
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .25 @65 = 30,000ppm





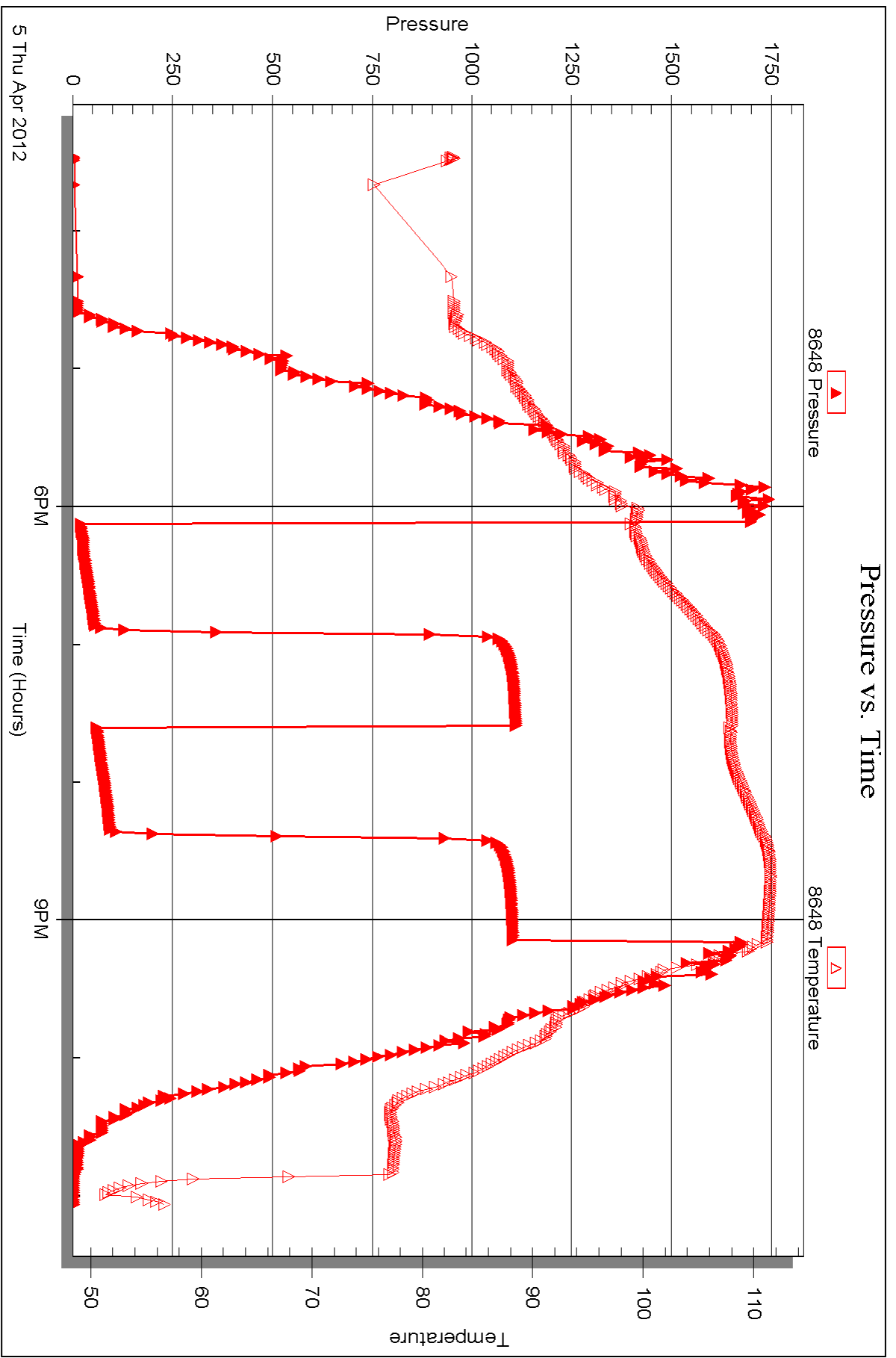
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Inside

H & C Oil Operating Inc

Fink # 27-1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 46111

Printed: 2012.04.11 @ 08:30:20



## DRILL STEM TEST REPORT

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

PO Box 86  
Plainville KS 67663

ATTN: Marc Downing

**Fink # 27-1**

**27-8s-22w Graham,KS**

Start Date: 2012.04.06 @ 06:10:00

End Date: 2012.04.06 @ 12:40:15

Job Ticket #: 46112                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.04.11 @ 08:29:02



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

H & C Oil Operating Inc

**27-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Fink # 27-1**

ATTN: Marc Downing

Job Ticket: 46112

**DST#: 4**

Test Start: 2012.04.06 @ 06:10:00

## GENERAL INFORMATION:

Formation: **LKC "I,J"**

Deviated: No Whipstock: 2159.00 ft (KB)

Time Tool Opened: 08:05:30

Time Test Ended: 12:40:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 43

**Interval: 3541.00 ft (KB) To 3577.00 ft (KB) (TVD)**

Reference Elevations: 2159.00 ft (KB)

Total Depth: 3577.00 ft (KB) (TVD)

2154.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

## Serial #: 6799

Inside

Press @ Run Depth: 44.15 psig @ 3542.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.06

End Date:

2012.04.06

Last Calib.:

2012.04.06

Start Time: 06:10:05

End Time:

12:40:14

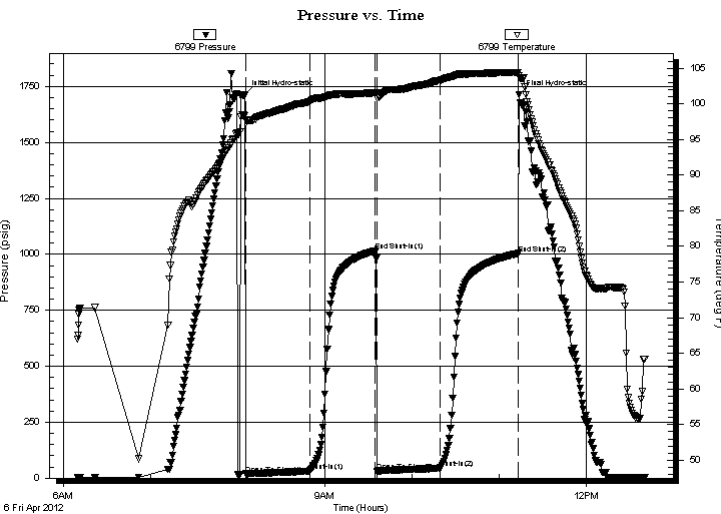
Time On Btm:

2012.04.06 @ 08:04:45

Time Off Btm:

2012.04.06 @ 11:13:45

**TEST COMMENT:** IF- 1/4" Blow built to 4"  
IS- No Return  
FF- Blow built to 1 3/4" then died back to 1"  
FS- No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1711.54	98.38	Initial Hydro-static
1	19.15	97.69	Open To Flow (1)
45	31.68	100.32	Shut-In(1)
90	1016.36	101.55	End Shut-In(1)
92	28.64	100.90	Open To Flow (2)
135	44.15	103.28	Shut-In(2)
189	1003.56	104.41	End Shut-In(2)
189	1714.13	103.94	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
85.00	OCM 50o 50M	1.19
5.00	Free oil	0.07
0.00	150' GIP	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H & C Oil Operating Inc

**27-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Fink # 27-1**

Job Ticket: 46112

**DST#: 4**

ATTN: Marc Downing

Test Start: 2012.04.06 @ 06:10:00

## Tool Information

Drill Pipe:	Length: 3553.00 ft	Diameter: 3.80 inches	Volume: 49.84 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 49.84 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3541.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 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
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3521.00	
Shut In Tool	5.00			3526.00	
Hydraulic tool	5.00			3531.00	
Packer	5.00			3536.00	21.00 Bottom Of Top Packer
Packer	5.00			3541.00	
Stubb	1.00			3542.00	
Recorder	0.00	8648	Inside	3542.00	
Recorder	0.00	6799	Inside	3542.00	
Perforations	30.00			3572.00	
Bullnose	5.00			3577.00	36.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>57.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H & C Oil Operating Inc

**27-8s-22w Graham,KS**

PO Box 86  
Plainville KS 67663

**Fink # 27-1**

Job Ticket: 46112

**DST#: 4**

ATTN: Marc Downing

Test Start: 2012.04.06 @ 06:10:00

## 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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
85.00	OCM 50o 50M	1.192
5.00	Free oil	0.070
0.00	150' GIP	0.000

Total Length: 90.00 ft      Total Volume: 1.262 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

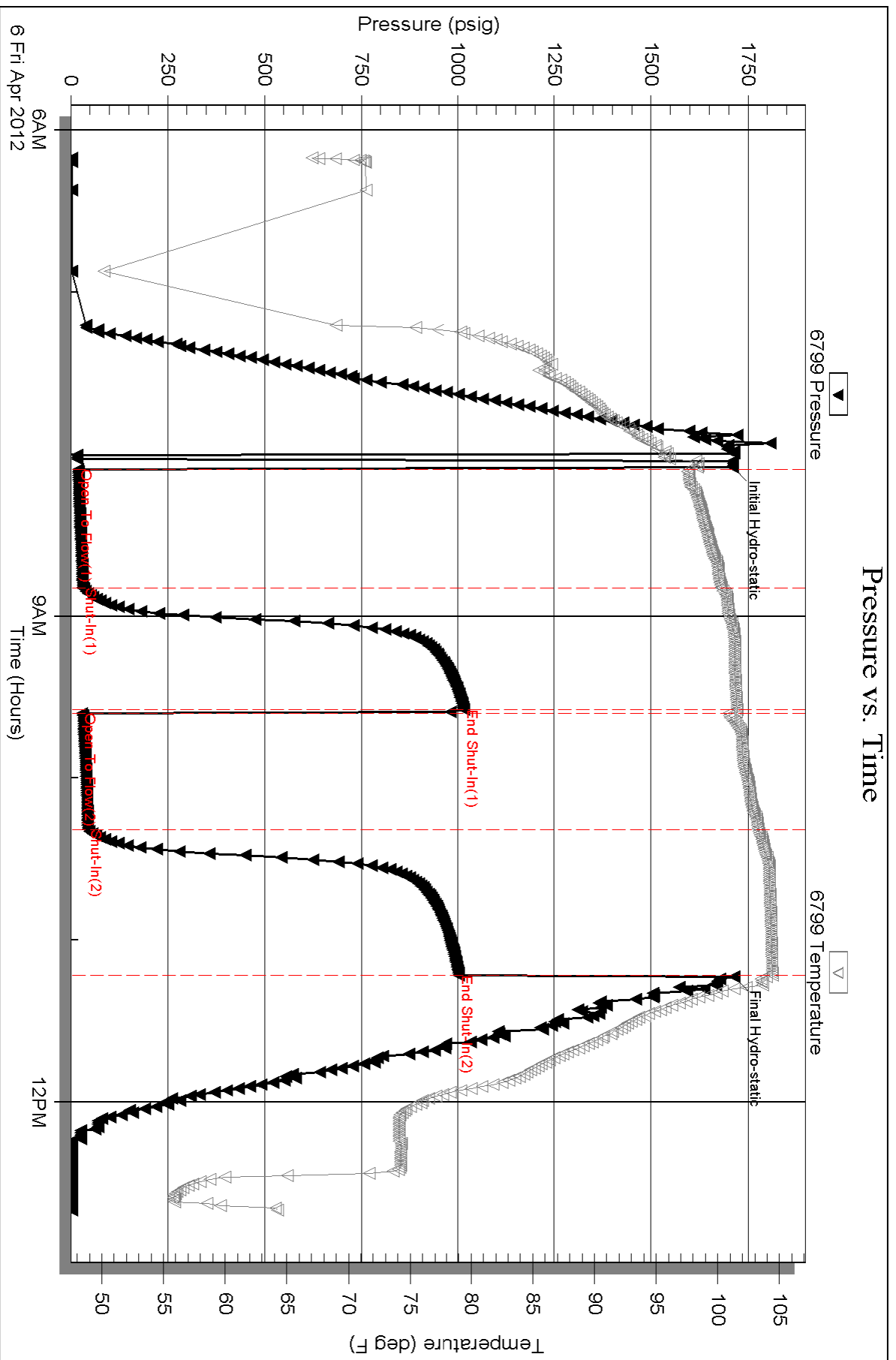
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



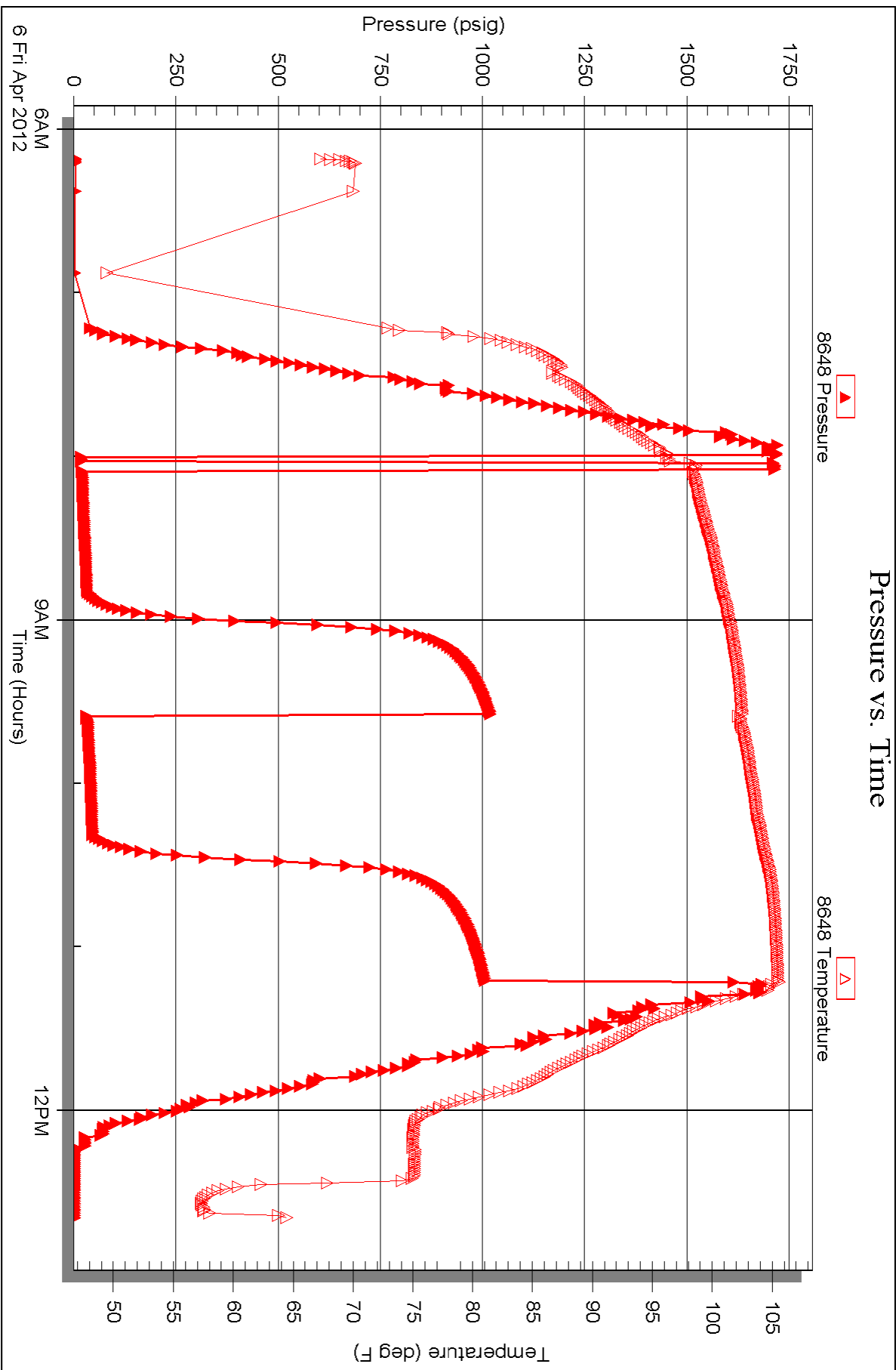
Serial #: 8648

Inside

H & C Oil Operating Inc

Fink # 27-1

DST Test Number: 4







# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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## Test Ticket

NO. 0123

Well Name & No. Vink # 27-1 BY: \_\_\_\_\_ Test No. 1 Date 4-4-12  
 Company H+C Oil Operating Inc. Elevation 2159 KB 2154 GL  
 Address P.O. Box 86 Blairville KS 67663  
 Co. Rep / Geo. Maie Downing Rig American Eagle #3  
 Location: Sec. 27 Twp. 85 N Rge. 22 W Co. Adair State KS

Interval Tested 3391-3414 Zone Tested LKC "A"  
 Anchor Length 23 Drill Pipe Run 3403 Mud Wt. 8.9  
 Top Packer Depth 3409 Drill Collars Run 0 Vis 66  
 Bottom Packer Depth 3414 Wt. Pipe Run 0 WL 0.2  
 Total Depth 3414 Chlorides 1100 ppm System LCM 1

Blow Description IFP - BOB in 4 min  
ISIP - No Blow  
IFP - BOB in 36 min  
FSIP - Surface Blow in 6 min Died in 12 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>95</u>	<u>40</u>	<u>10</u>	<u>90</u>		
<u>215</u>	<u>215</u>				

Rec Total 95 BHT 104 Gravity 3P API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1619  Test 1125 T-On Location 07:02  
 (B) First Initial Flow 18  Jars \_\_\_\_\_ T-Started 08:38  
 (C) First Final Flow 33  Safety Joint \_\_\_\_\_ T-Open 10:42  
 (D) Initial Shut-In 852  Circ Sub \_\_\_\_\_ T-Pulled 13:42  
 (E) Second Initial Flow 35  Hourly Standby \_\_\_\_\_ T-Out 15:45  
 (F) Second Final Flow 51  Mileage 170 RT 238 Comments \_\_\_\_\_  
 (G) Final Shut-In 777  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1578  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1363  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1363

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

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.



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## Test Ticket

NO. 042483

Well Name & No. Fink # 27-1 Test No. 2 Date 4-5-12  
 Company H & C Oil Operating Inc Elevation 2159 KB 2154 GL  
 Address P.O. Box 86 Plainville Ks 67663  
 Co. Rep / Geo. Marc Downing Rig American Eagle #.3  
 Location: Sec. 27 Twp. 8<sup>s</sup> Rge. 22<sup>w</sup> Co. Shoeman State KS

Interval Tested 3456 - 3484 Zone Tested LKC "E & F"  
 Anchor Length 28 Drill Pipe Run 3463 Mud Wt. 8.9  
 Top Packer Depth 3451 Drill Collars Run 0 Vis 66  
 Bottom Packer Depth 3456 Wt. Pipe Run 0 WL 6.2  
 Total Depth 3484 Chlorides 1100 ppm System LCM 1

Blow Description IFP - BOB in 3min  
FSIP - SURFACE Blow in 20min  
FFP - BOB in 3 1/2 min  
FSIP - SURFACE Blow in 12min

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>W &amp; MCO</u>	<u>55</u>	<u>20</u>	<u>25</u>	
<u>62</u>	<u>O &amp; MCW</u>	<u>10</u>	<u>50</u>	<u>40</u>	
<u>62</u>	<u>SLO &amp; MCW</u>	<u>2</u>	<u>78</u>	<u>20</u>	
<u>496</u>	<u>SLO &amp; MCW</u>	<u>1</u>	<u>90</u>	<u>9</u>	
<u>186</u>	<u>SIP</u>				

Rec Total 650 BHT 110 Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1659  Test 1125 T-On Location 00:07  
 (B) First Initial Flow 52  Jars T-Started 00:55  
 (C) First Final Flow 189  Safety Joint T-Open 03:07  
 (D) Initial Shut-In 1103  Circ Sub T-Pulled 05:25  
 (E) Second Initial Flow 202  Hourly Standby T-Out 08:08  
 (F) Second Final Flow 327  Mileage 170RT 238 Comments  
 (G) Final Shut-In 1061  Sampler  
 (H) Final Hydrostatic 1635  Straddle  Ruined Shale Packer

Initial Open 15  Shale Packer  Ruined Packer  
 Initial Shut-In 77  Extra Packer  Extra Copies  
 Final Flow 15  Extra Recorder Sub Total 0  
 Final Shut-In 30  Day Standby Total 1303  
 Accessibility MP/DST Disc't

Sub Total 1303

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

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P.O. Box 1733 • Hays, Kansas 67601

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APR 09 2012

## Test Ticket

NO. 46111

Well Name & No. Fink #27-1 Test No. 3 Date 4-5-12  
 Company H&C Oil Operating Inc. Elevation 2159 KB 2154 GL  
 Address P.O. Box 86 Plainville, KS 67663  
 Co. Rep / Geo. Marc Downing Rig American Eagle #3  
 Location: Sec. 27 Twp. 8s Rge. 22 W Co. Graham State KS

Interval Tested 3512-3545 Zone Tested LKC "H"  
 Anchor Length 33' Drill Pipe Run 3493 Mud Wt. 9.2  
 Top Packer Depth 3508 Drill Collars Run Ø Vis 49  
 Bottom Packer Depth 3512 Wt. Pipe Run Ø WL 7.2  
 Total Depth 3545 Chlorides 1,900 ppm System LCM 2#

Blow Description IF-1/4" Blow built to 9"  
IS- No Return  
FF- Surface Blow built to 9"  
FS- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Free oil</u>	<u>100</u>			
<u>28</u>	<u>top mw</u>		<u>60</u>	<u>40</u>	
<u>120</u>	<u>MW</u>		<u>90</u>	<u>10</u>	

Rec Total 150 BHT 110 Gravity — API RW .25 @ 65 °F Chlorides 30,000 ppm

- (A) Initial Hydrostatic 1695
- (B) First Initial Flow 17
- (C) First Final Flow 55
- (D) Initial Shut-In 1107
- (E) Second Initial Flow 57
- (F) Second Final Flow 93
- (G) Final Shut-In 1100
- (H) Final Hydrostatic 1673

- Test 112.5
- Jars
- Safety Joint
- Circ Sub N/C
- Hourly Standby
- Mileage 170 RT 238
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1363

- T-On Location 3:00 PM
- T-Started 3:27 PM
- T-Open 6:07 PM
- T-Pulled 9:07 PM
- T-Out 11:05 PM
- Comments
- Ruined Shale Packer
- Ruined Packer
- Extra Copies
- Sub Total Ø
- Total 1363
- MP/DST Disc't

Initial Open 45  
 Initial Shut-In 45  
 Initial Flow 45  
 Initial Shut-In 45

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
APR 09 2012  
BY: \_\_\_\_\_

## Test Ticket

NO. 46112

Well Name & No. Fink # 27-1 Test No. 4 Date 4-6-12  
 Company H&C Oil Operating, Inc. Elevation 2159 KB 2154 GL  
 Address P.O. Box 86 Plainville, KS 67663  
 Co. Rep / Geo. Marc Downing Rig American Eagle #3  
 Location: Sec. 27 Twp. 8s Rge. 22w Co. Graham State KS

Interval Tested 3541-3577 Zone Tested LKC "I, J"  
 Anchor Length 36' Drill Pipe Run 3553 Mud Wt. 9.2  
 Top Packer Depth 3537 Drill Collars Run Ø Vis 49  
 Bottom Packer Depth 3541 Wt. Pipe Run Ø WL 7.2  
 Total Depth 3577 Chlorides 1900 ppm System LCM 2

Blow Description IF - 1/4" Blow built to 4"  
IS - No Return  
FF - Blow built to 1 3/4" then died back to 1"  
FS - No Return

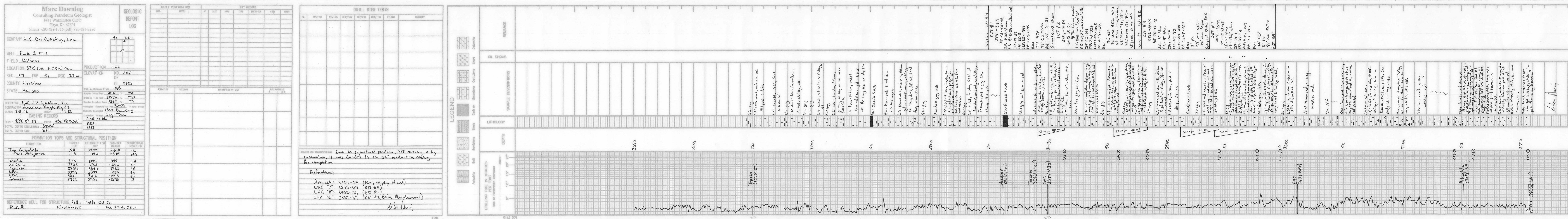
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Free Oil</u>	<u>100</u>			
<u>85</u>	<u>OCM</u>	<u>50</u>		<u>50</u>	

Rec Total 90 BHT 104 Gravity — API RW — @ — °F Chlorides — ppm  
 (A) Initial Hydrostatic 1711  Test 1125 T-On Location 6:00 AM  
 (B) First Initial Flow 19  Jars T-Started 6:10 AM  
 (C) First Final Flow 31  Safety Joint T-Open 8:05 AM  
 (D) Initial Shut-In 1016  Circ Sub N/C T-Pulled 11:05 AM  
 (E) Second Initial Flow 28  Hourly Standby T-Out 12:40 PM  
 (F) Second Final Flow 44  Mileage 170 RT <sup>235</sup> X2 Comments 150' GIP  
 (G) Final Shut-In 1003  Sampler 4576 Loaded tools  
 (H) Final Hydrostatic 1714  Straddle 3:00 PM 4-7-12

Initial Open 45  Ruined Shale Packer  
 Initial Shut-In 45  Ruined Packer  
 Final Flow 45  Extra Packer  
 Final Shut-In 45  Extra Recorder  
 Day Standby 2 1/4 hrs Sub Total 800  
 Accessibility Total 2401  
 Sub Total 1601 MP/DST Disc't \_\_\_\_\_

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

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# QUALITY OILWELL CEMENTING, INC.


Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 482

Cell 785-324-1041

Date	3-31-12	27	8	22	County	Graham, Kansas	State	On Location	Finish
Lease	Frank	Well No.	27-1	Location	Bogue 25 346 Sixth				
Contractor	American Eagle 1153								
Type Job	Surface								
Hole Size	12 1/4	T.D.	271						
Csg.	8 3/4 23K	Depth	271						
Tbg. Size		Depth							
Tool		Depth							
Cement Left in Csg.	10.15	Shoe Joint							
Meas Line		Displace	164.131						
<b>EQUIPMENT</b>									
Pumptrk	5	No. Cementer	Steve						
		Helper							
Bulktrk	14	No. Driver	Brett						
		Driver							
Bulktrk		No. Driver	Cody						
		Driver							
<b>JOB SERVICES &amp; REMARKS</b>									
Remarks:									
Rat Hole									
Mouse Hole									
Centralizers									
Baskets									
D/V or Port Collar									
	Cement and Circulate								
	Sand								
	Handling 179								
	Mileage								
	<b>FLOAT EQUIPMENT</b>								
	Guide Shoe								
	Centralizer								
	Baskets								
	AFU Inserts								
	Float Shoe								
	Latch Down								
	Surge								
	Pumptrk Charge								
	Surface								
	Mileage 46								
	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. 321

Date	4-8-12	Sec.	27	Twp.	8	Range	22	County	Cherokee	State	KS	On Location		Finish	330 g.m.
Lease	Fink	Well No.	27-1			Location			Beave Ste Park to 320 1/2 S Al. Sinter						
Contractor	American Bore #3														
Type Job	D.L. Sols Top Stage														
Hole Size	778 T.D. 3806														
Csg.	512 Depth 3804														
Tbg. Size	Depth														
Tool	D.L. Tool 1 #49 Depth 1749														
Cement Left in Csg.	Shoe Joint														
Meas Line	Displace 42 1/2 B.C.														
EQUIPMENT															
Pumptrk	No.	Cementer	Casing												
Bulktrk	No.	Helper	MRTT												
Bulktrk	No.	Driver	Dug												
JOB SERVICES & REMARKS															
Remarks:	USEL 350SK														
Rat Hole	30SK														
Mouse Hole	87#														
Centralizers	Mud CLR 48														
Baskets	CFL-117 or CD110 CAF 38														
DV or Port Collar	Sand														
	Handling 350														
	Mileage														
	FLOAT EQUIPMENT														
	Guide Shoe														
	Centralizer														
	Baskets														
	AFU inserts														
	Float Shoe														
	Latch Down														
	Pumptrk Charge														
	Mileage														
	Tax														
	Discount														
	Total Charge														

X Signature Charles Bowers





# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 482

Cell 785-324-1041

Date	3-31-12	27	8	22	County	Graham, Kansas	State	On Location	Finish
Lease	Final	Well No.	27-1	Location	Bogue 25 346 Sixth				
Contractor	American Eagle 1153								
Type Job	Surface								
Hole Size	12 1/4	T.D.	271	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish center and helper to assist owner or contractor to do work as listed.					
Csg.	8 3/4 23K	Depth	271	Charge To	AFC Oil				
Tbg. Size		Depth		Street					
Tool		Depth		City	State				
Cement Left in Csg.	10.15	Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.					
Meas Line		Displace	164.731	Cement Amount Ordered	170 Cement				
<b>EQUIPMENT</b>									
Pumptrk	5	No. Cementer	Steve	Common	366 28 bu				
		Helper		170					
Bulktrk	14	No. Driver	Bratt	Poz. Mix					
		Driver		Gel.	3				
Bulktrk		No. Driver	Andy	Calcium	6				
		Driver		Hulls					
<b>JOB SERVICES &amp; REMARKS</b>									
Remarks:									
Rat Hole									
Mouse Hole									
Centralizers									
Baskets									
D/V or Port Collar									
	Cement and Circulate								
	Handling 179								
	Mileage								
	<b>FLOAT EQUIPMENT</b>								
	Guide Shoe								
	Centralizer								
	Baskets								
	AFU Inserts								
	Float Shoe								
	Latch Down								
	Surge								
	Pumptrk Charge								
	Surface								
	Mileage								
	46								
	Tax								
	Discount								
	Total Charge								
X Signature	