



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1139841
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: _____



1139841

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

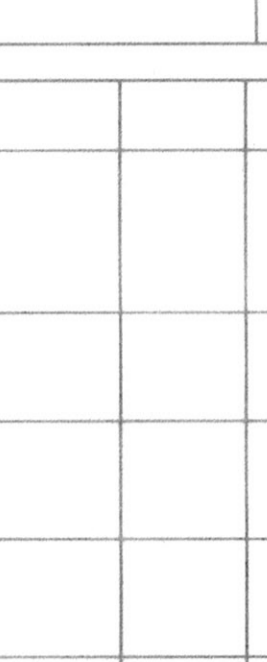
DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	H & C Oil Operating Inc.
Well Name	Steelsmith 25-2
Doc ID	1139841

All Electric Logs Run

Microresistivity log
Dual Compensated Porosity log
Dual Induction log
Sonic Cement bond log

COMPANY H&C Oil Operating, Inc.
 WELL Stekelwith # 25-2
 FIELD



LOCATION 1450' ENE & 990' ECL
 SEC. 25 TWP. 9S RGE. 25W
 COUNTY Graham
 STATE Kansas

PRODUCTION LKC
 ELEVATION KB 2590
 DF 2585
 GI 2585

OPERATOR H&C Oil Operating, Inc.
 CONTRACTOR American Eagle, Rig # 3
 COMM: 4-5-13 COMP: 4-12-13
 CASING RECORD
 SURF: 8 3/4" @ 292'
 PROD: 5 1/2" @ 419'
 TOTAL DEPTH ORILLERS: 4200'
 TOTAL DEPTH LOG: 4199'

Drilling Measured From: KB
 Samples Saved From: 3850 to TD
 Drilling Time From: 3850 to TD
 Sample Examined From: 3850 to TD
 Geological Supervision From: 3850 to Total Depth
 Website Geologist: Marc Downing
 Electrical Survey: Pioneer
 C.N.C./O.I.
 DTL
 MEC

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DURATION	STRUCTURAL POSITION
Top Anhydrite	2247	2251	+333	-8
Base Anhydrite	2298	2296	+294	-13
Topka	3469	3464	-1516	-5
Topka	3883	3881	-1298	-3
Topka	3904	3904	-1314	-2
Topka	3916	3916	-1326	-2
Topka	4154	4154	-1564	-6

REFERENCE WELL FOR STRUCTURE H&C Oil Operating, Inc.
 Stekelwith # 25-1 2310' ENE & 330' ECL Sec. 25-9S-25W

DRILL STEM TESTS

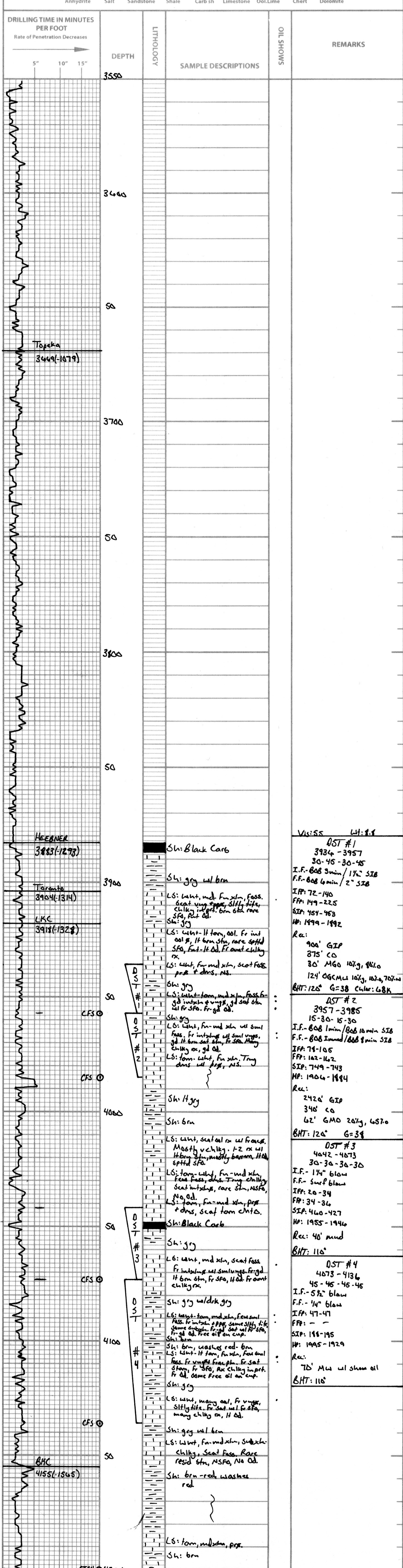
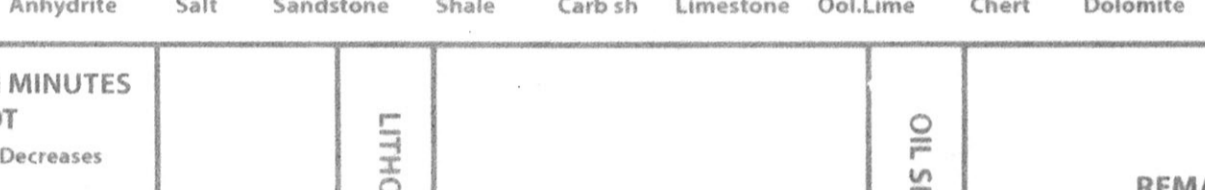
No.	Interval	ISP/Time	SSP/Time	FFP/Time	ESP/Time	HP-HP	RECOVERY

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

Deferrals:
 LKC D: 3940-47 (DST # 2)
 LKC C: 3950-56 (DST # 1)
 LKC H: 4040-66 (DST # 3, before abandonment)

Marc Downing

LEGEND





DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663-0086

ATTN: Charlie Ramsey

Steelsmith #25-2

25-9s-25w Graham,KS

Start Date: 2013.04.09 @ 00:30:30

End Date: 2013.04.09 @ 07:27:09

Job Ticket #: 52560 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.17 @ 15:11:46



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Charlie Ramsey

25-9s-25w Graham,KS
Steelsmith #25-2
Job Ticket: 52560 **DST#: 1**
Test Start: 2013.04.09 @ 00:30:30

GENERAL INFORMATION:

Formation: **LKC "C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:55:25
Time Test Ended: 07:27:09
Interval: **3936.00 ft (KB) To 3957.00 ft (KB) (TVD)**
Total Depth: 3957.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Ray Schwager
Unit No: 42
Reference Elevations: 2590.00 ft (KB)
2585.00 ft (CF)
KB to GR/CF: 5.00 ft

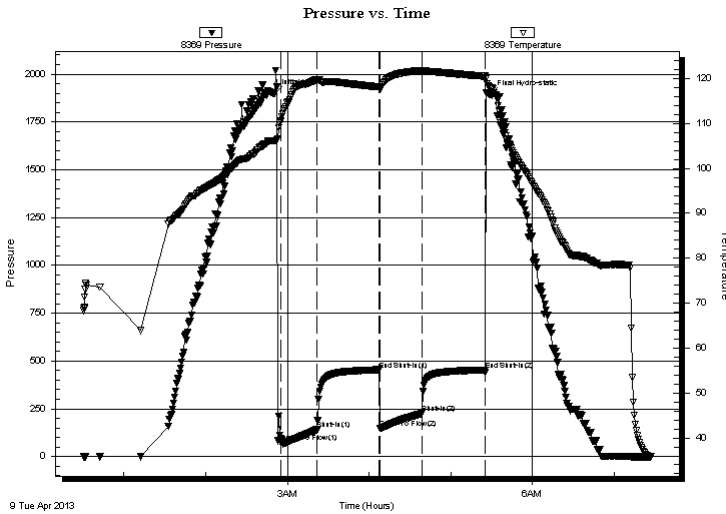
Serial #: 8369

Inside

Press @ Run Depth: 225.90 psig @ 3937.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.04.09 End Date: 2013.04.09 Last Calib.: 2013.04.09
Start Time: 00:30:30 End Time: 07:27:09 Time On Btm: 2013.04.09 @ 02:50:40
Time Off Btm: 2013.04.09 @ 05:28:54

TEST COMMENT: 30-IFP-strg bl in 3 min
45-ISIP-1 1/2" bl bk
30-FFP-strg bl in 7 min
45-FSIP-2" bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1899.27	106.10	Initial Hydro-static
5	72.80	110.59	Open To Flow (1)
32	140.95	119.81	Shut-In(1)
77	454.08	118.11	End Shut-In(1)
78	149.15	117.62	Open To Flow (2)
108	225.90	121.82	Shut-In(2)
155	453.17	120.53	End Shut-In(2)
159	1892.10	117.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	900'GIP	0.00
375.00	CO	5.26
30.00	MGO 10%G10%M80%O	0.42
124.00	O&GCMW 10%G10%O10%M70%W	1.74

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Charlie Ramsey

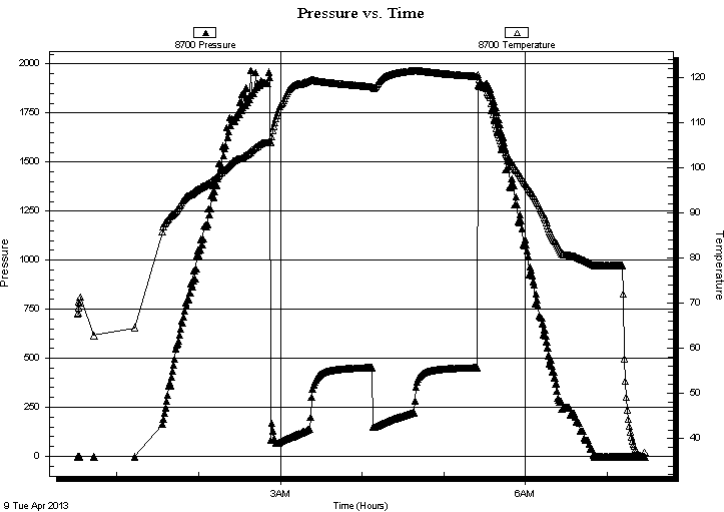
25-9s-25w Graham,KS
Steelsmith #25-2
Job Ticket: 52560 **DST#: 1**
Test Start: 2013.04.09 @ 00:30:30

GENERAL INFORMATION:

Formation: **LKC "C"**
Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Initial)**
Time Tool Opened: **02:55:25** Tester: **Ray Schwager**
Time Test Ended: **07:27:09** Unit No: **42**
Interval: 3936.00 ft (KB) To 3957.00 ft (KB) (TVD) Reference Elevations: **2590.00 ft (KB)**
Total Depth: **3957.00 ft (KB) (TVD)** **2585.00 ft (CF)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **5.00 ft**

Serial #: 8700 Outside
Press @ RunDepth: **psig @ 3937.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2013.04.09** End Date: **2013.04.09** Last Calib.: **2013.04.09**
Start Time: **00:31:15** End Time: **07:27:39** Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IFP-strg bl in 3 min
45-ISIP-1 1/2" bl bk
30-FFP-strg bl in 7 min
45-FSIP-2" bl bk



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	900'GIP	0.00
375.00	CO	5.26
30.00	MGO 10%G10%M80%O	0.42
124.00	O&GCMW 10%G10%O10%M70%W	1.74

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Charlie Ramsey

25-9s-25w Graham,KS
Steelsmith #25-2
Job Ticket: 52560 **DST#: 1**
Test Start: 2013.04.09 @ 00:30:30

Tool Information

Drill Pipe:	Length: 3935.00 ft	Diameter: 3.80 inches	Volume: 55.20 bbl	Tool Weight: 2200.00 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: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 55.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3936.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	42.00 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			3916.00	
Shut In Tool	5.00			3921.00	
Hydraulic tool	5.00			3926.00	
Packer	5.00			3931.00	21.00 Bottom Of Top Packer
Packer	5.00			3936.00	
Stubb	1.00			3937.00	
Recorder	0.00	8369	Inside	3937.00	
Recorder	0.00	8700	Outside	3937.00	
Perforations	17.00			3954.00	
Bullnose	3.00			3957.00	21.00 Bottom Packers & Anchor
Total Tool Length:	42.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Charlie Ramsey

25-9s-25w Graham,KS
Steelsmith #25-2
Job Ticket: 52560 **DST#: 1**
Test Start: 2013.04.09 @ 00:30:30

Mud and Cushion Information

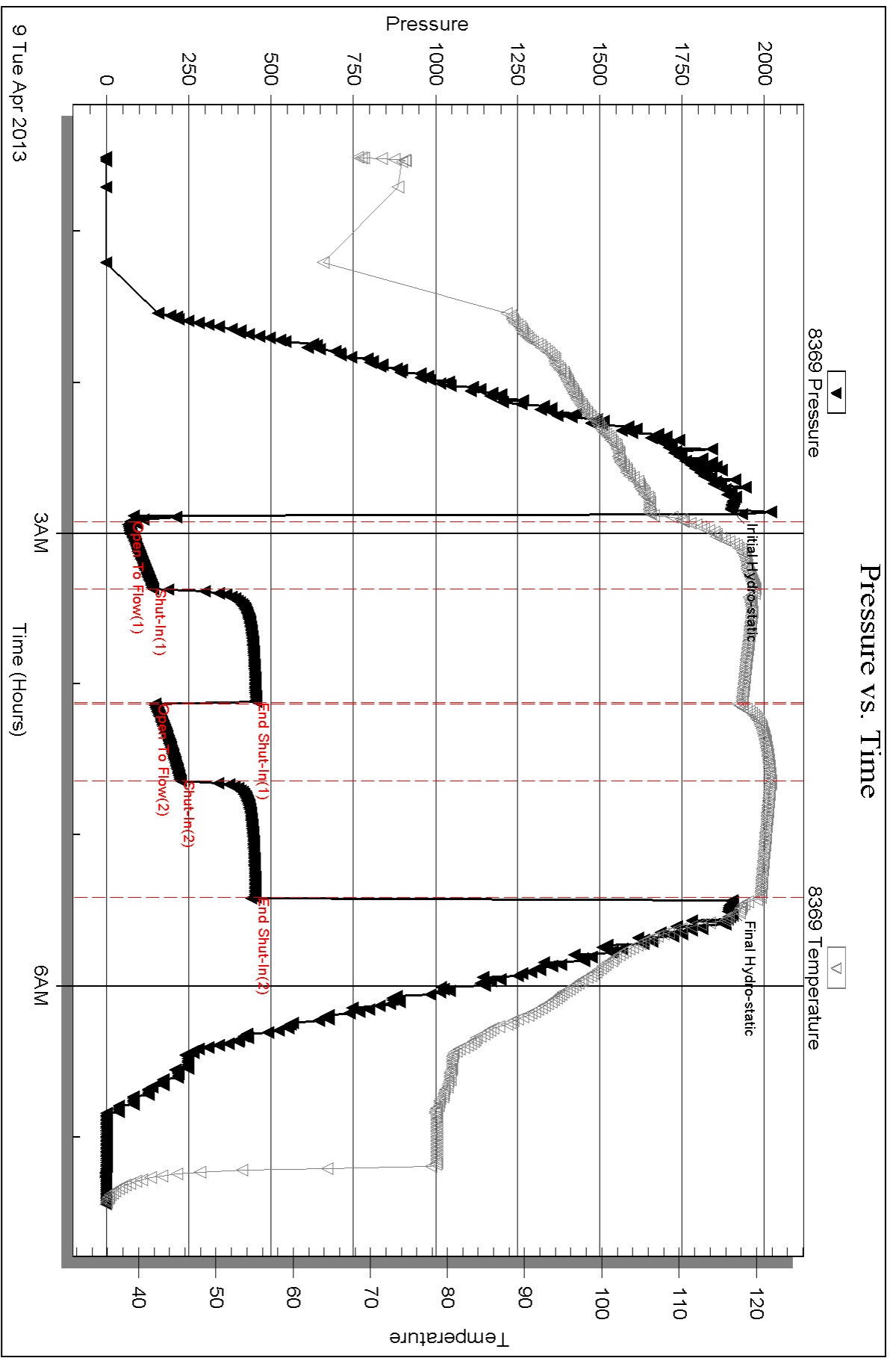
Mud Type: Gel Chem	Cushion Type:	Oil API: 38 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 68000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl	
Water Loss: 5.95 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1200.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	900'GIP	0.000
375.00	CO	5.260
30.00	MGO 10%G10%M80%O	0.421
124.00	O&GCMW 10%G10%O10%M70%W	1.739

Total Length: 529.00 ft Total Volume: 7.420 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: RW .15@50F

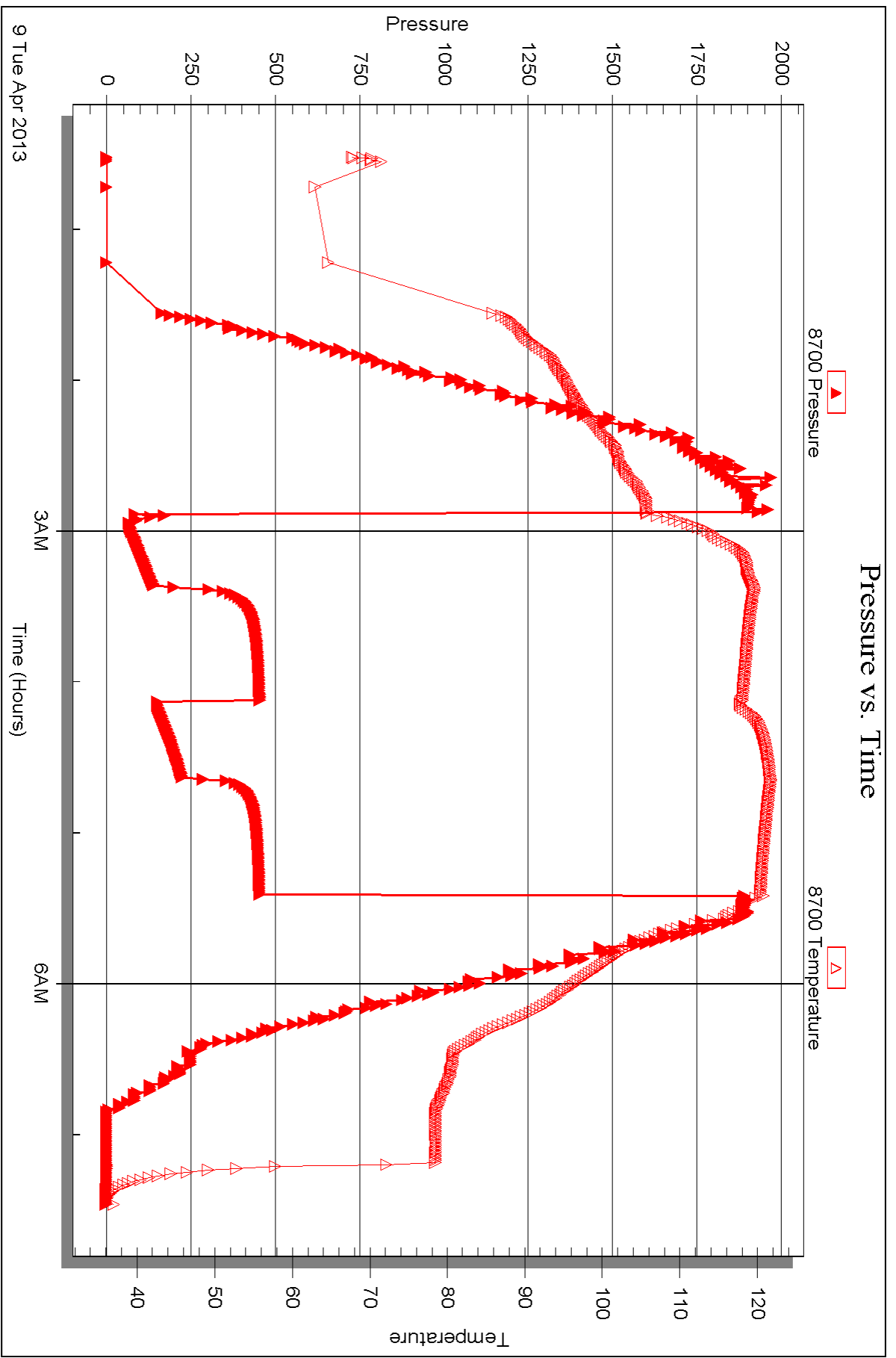


Serial #: 8700

Outside H&C Oil Operating Inc

Steelsmith #25-2

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 52560

Printed: 2013.04.17 @ 15:11:50



DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663-0086

ATTN: Charlie Ramsey

Steelsmith #25-2

25-9s-25w Graham,KS

Start Date: 2013.04.11 @ 01:25:35

End Date: 2013.04.11 @ 07:46:14

Job Ticket #: 52561 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.17 @ 15:11:06



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Charlie Ramsey

25-9s-25w Graham,KS
Steelsmith #25-2
Job Ticket: 52561 **DST#: 2**
Test Start: 2013.04.11 @ 01:25:35

GENERAL INFORMATION:

Formation: **LKC "D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:50:15
Time Test Ended: 07:46:14
Interval: **3957.00 ft (KB) To 3985.00 ft (KB) (TVD)**
Total Depth: 3985.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Ray Schwager
Unit No: 42
Reference Elevations: 2590.00 ft (KB)
2585.00 ft (CF)
KB to GR/CF: 5.00 ft

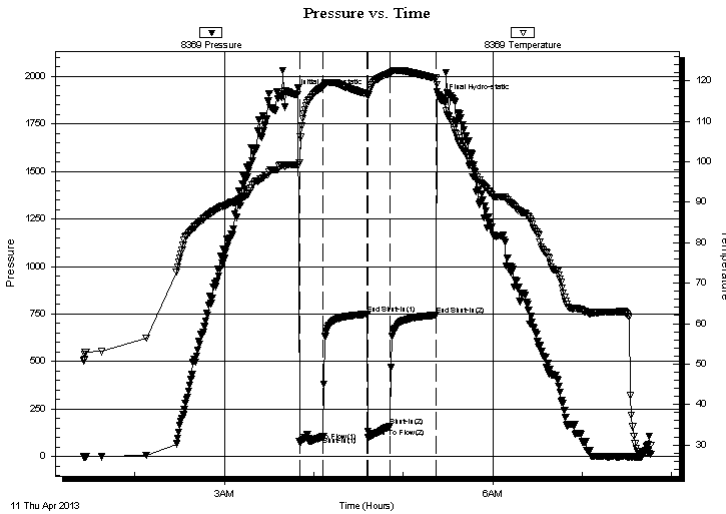
Serial #: 8369

Inside

Press @ Run Depth: 162.36 psig @ 3958.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.04.11 End Date: 2013.04.11 Last Calib.: 2013.04.11
Start Time: 01:25:35 End Time: 07:46:14 Time On Btm: 2013.04.11 @ 03:46:30
Time Off Btm: 2013.04.11 @ 05:26:00

TEST COMMENT: 15-IFP-strg bl in 1 min
30-ISIP-strg bl bk in 10 min
15-FFP-strg bl thru-out
30-FSIP-strg bl bk in 8 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1906.58	99.21	Initial Hydro-static
4	78.27	99.85	Open To Flow (1)
20	105.29	118.71	Shut-In(1)
50	749.82	116.83	End Shut-In(1)
50	102.66	116.33	Open To Flow (2)
65	162.36	121.92	Shut-In(2)
96	743.89	120.66	End Shut-In(2)
100	1884.25	115.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2420' GIP	0.00
340.00	CO	4.77
62.00	GMO 20%G15%M65%O	0.87

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating Inc
 PO Box 86
 Plainville KS 67663-0086
 ATTN: Charlie Ramsey

25-9s-25w Graham,KS

Steelsmith #25-2

Job Ticket: 52561 **DST#: 2**

Test Start: 2013.04.11 @ 01:25:35

GENERAL INFORMATION:

Formation: **LKC "D"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 03:50:15
 Tester: Ray Schwager
 Time Test Ended: 07:46:14
 Unit No: 42
Interval: 3957.00 ft (KB) To 3985.00 ft (KB) (TVD)
 Reference Elevations: 2590.00 ft (KB)
 Total Depth: 3985.00 ft (KB) (TVD)
 2585.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

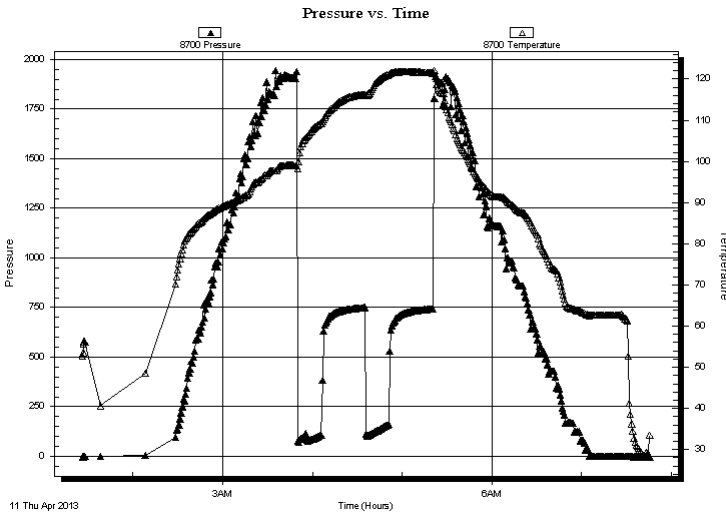
Serial #: 8700

Outside

Press @ Run Depth: psig @ 3958.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2013.04.11 End Date: 2013.04.11 Last Calib.: 2013.04.11
 Start Time: 01:26:15 End Time: 07:45:39
 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15-IFP-strg bl in 1 min
 30-ISIP-strg bl bk in 10 min
 15-FFP-strg bl thru-out
 30-FSIP-strg bl bk in 8 min

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2420' GIP	0.00
340.00	CO	4.77
62.00	GMO 20%G15%M65%O	0.87

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Charlie Ramsey

25-9s-25w Graham,KS
Steelsmith #25-2
Job Ticket: 52561 **DST#: 2**
Test Start: 2013.04.11 @ 01:25:35

Tool Information

Drill Pipe:	Length: 3966.00 ft	Diameter: 3.80 inches	Volume: 55.63 bbl	Tool Weight:	2200.00 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: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 55.63 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3957.00 ft			Final	43000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	28.00 ft				
Tool Length:	49.00 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			3937.00	
Shut In Tool	5.00			3942.00	
Hydraulic tool	5.00			3947.00	
Packer	5.00			3952.00	21.00 Bottom Of Top Packer
Packer	5.00			3957.00	
Stubb	1.00			3958.00	
Recorder	0.00	8369	Inside	3958.00	
Recorder	0.00	8700	Outside	3958.00	
Perforations	24.00			3982.00	
Bullnose	3.00			3985.00	28.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Charlie Ramsey

25-9s-25w Graham,KS
Steelsmith #25-2
Job Ticket: 52561 **DST#: 2**
Test Start: 2013.04.11 @ 01:25:35

Mud and Cushion Information

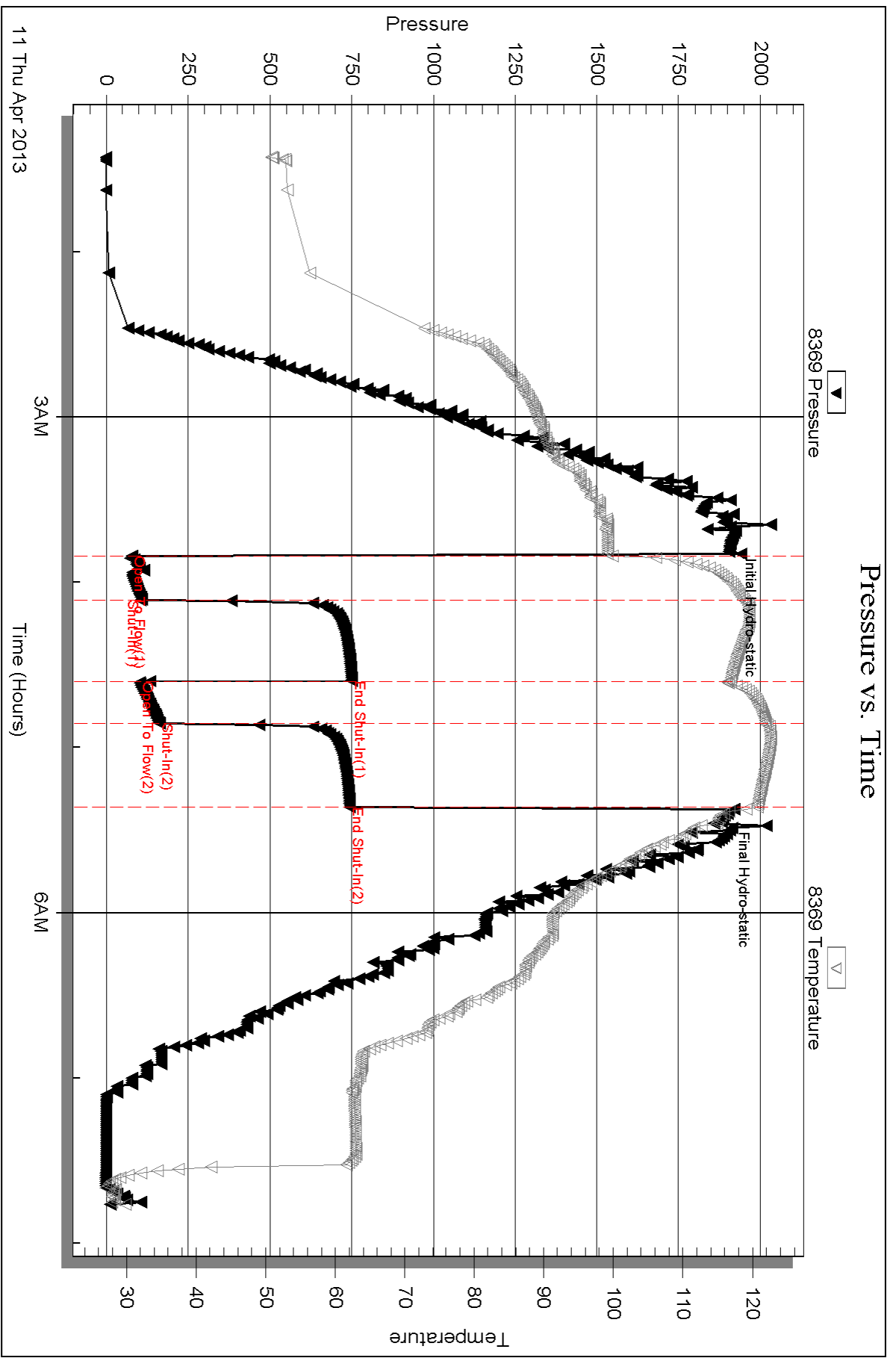
Mud Type: Gel Chem	Cushion Type:	Oil API: 38 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 64.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.76 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1300.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2420' GIP	0.000
340.00	CO	4.769
62.00	GMO 20%G15%M65%O	0.870

Total Length: 402.00 ft Total Volume: 5.639 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

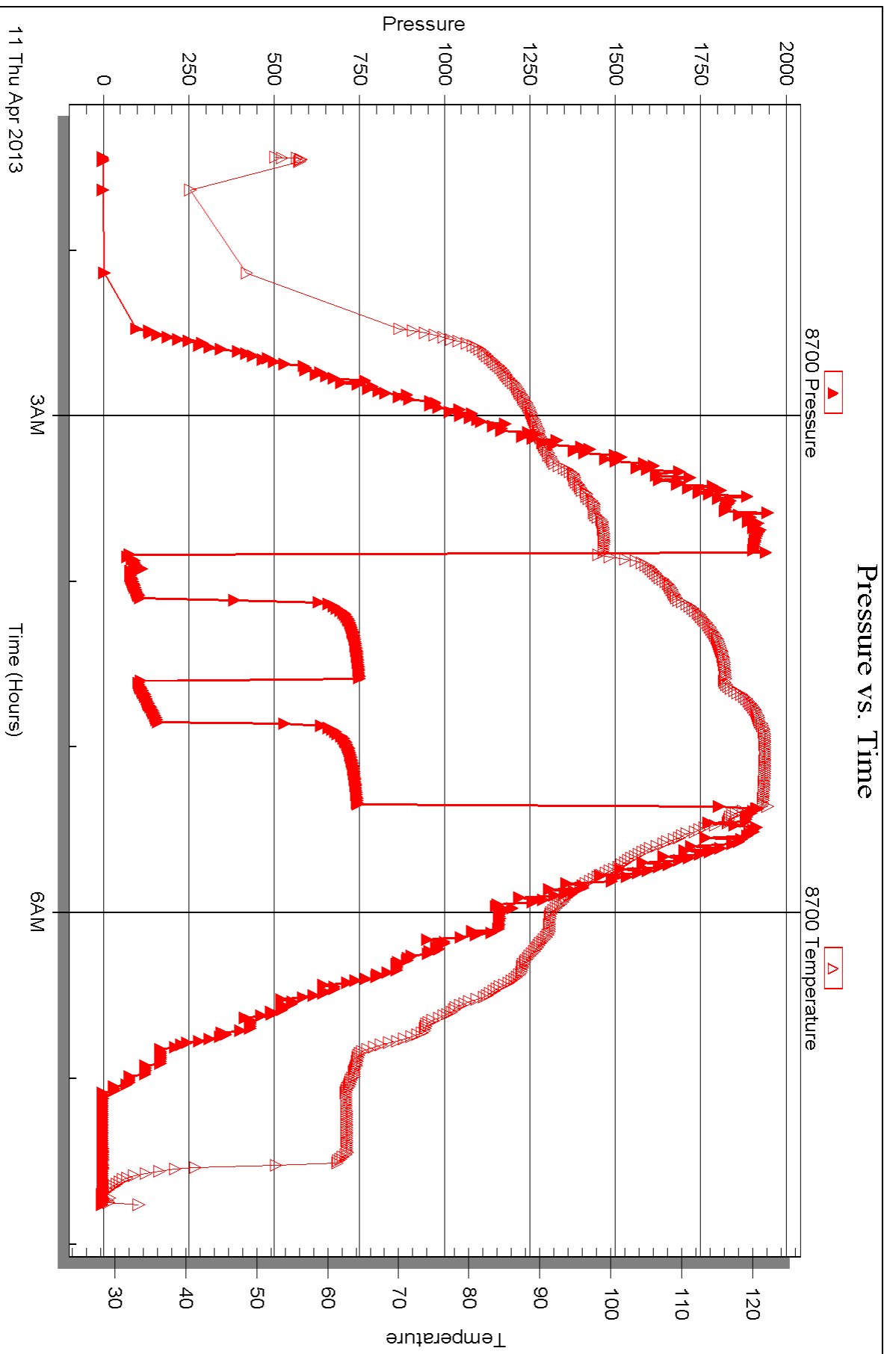


Serial #: 8700

Outside H&C Oil Operating Inc

Steelsmith #25-2

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 52561

Printed: 2013.04.17 @ 15:11:09



DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663-0086

ATTN: Charlie Ramsey

Steelsmith #25-2

25-9s-25w Graham,KS

Start Date: 2013.04.11 @ 16:55:36

End Date: 2013.04.11 @ 22:49:15

Job Ticket #: 52562 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.17 @ 14:57:36



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Charlie Ramsey

25-9s-25w Graham,KS
Steelsmith #25-2
Job Ticket: 52562 **DST#: 3**
Test Start: 2013.04.11 @ 16:55:36

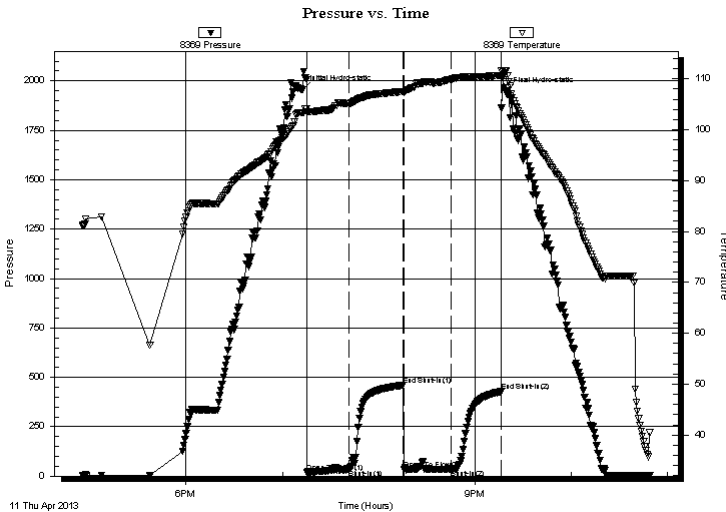
GENERAL INFORMATION:

Formation: **LKC "H"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:15:16
Time Test Ended: 22:49:15
Interval: **4042.00 ft (KB) To 4073.00 ft (KB) (TVD)**
Total Depth: 4073.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2590.00 ft (KB)
2585.00 ft (CF)
KB to GR/CF: 5.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Ray Schwager
Unit No: 42

Serial #: 8369 Inside
Press @ Run Depth: 36.26 psig @ 4046.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.04.11 End Date: 2013.04.11 Last Calib.: 2013.04.11
Start Time: 16:55:36 End Time: 22:49:15 Time On Btm: 2013.04.11 @ 19:12:31
Time Off Btm: 2013.04.11 @ 21:19:15

TEST COMMENT: 30-IFP-w k bl thru-out 1/2" to 1 1/4" bl
30-ISIP-no bl
30-FFP-no bl 1st 6 min, then surface bl thru-out
30-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1955.56	103.36	Initial Hydro-static
3	20.39	103.54	Open To Flow (1)
29	34.33	105.11	Shut-In(1)
63	460.41	107.52	End Shut-In(1)
64	34.58	107.38	Open To Flow (2)
93	36.26	109.92	Shut-In(2)
124	427.79	110.68	End Shut-In(2)
127	1946.34	111.54	Final Hydro-static

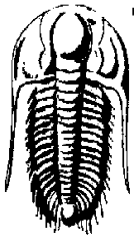
Recovery

Length (ft)	Description	Volume (bbl)
40.00	Mud	0.56

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating Inc
 PO Box 86
 Plainville KS 67663-0086
 ATTN: Charlie Ramsey

25-9s-25w Graham,KS
Steelsmith #25-2
 Job Ticket: 52562 **DST#: 3**
 Test Start: 2013.04.11 @ 16:55:36

GENERAL INFORMATION:

Formation: **LKC "H"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:15:16
 Time Test Ended: 22:49:15

Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 42

Interval: 4042.00 ft (KB) To 4073.00 ft (KB) (TVD)
 Total Depth: 4073.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2590.00 ft (KB)
 2585.00 ft (CF)
 KB to GR/CF: 5.00 ft

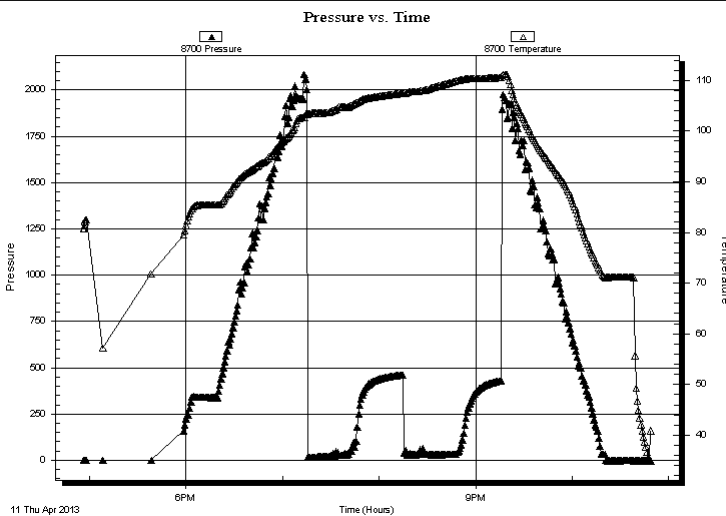
Serial #: 8700 Outside

Press @ Run Depth: psig @ 4046.00 ft (KB)
 Start Date: 2013.04.11 End Date: 2013.04.11
 Start Time: 16:56:20 End Time: 22:48:44

Capacity: 8000.00 psig
 Last Calib.: 2013.04.11
 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IFP-w k bl thru-out 1/2" to 1 1/4" bl
 30-ISIP-no bl
 30-FFP-no bl 1st 6 min, then surface bl thru-out
 30-FSIP-no bl

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Mud	0.56

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc
 PO Box 86
 Plainville KS 67663-0086
 ATTN: Charlie Ramsey

25-9s-25w Graham,KS
Steelsmith #25-2
 Job Ticket: 52562 **DST#: 3**
 Test Start: 2013.04.11 @ 16:55:36

Tool Information

Drill Pipe:	Length: 4027.00 ft	Diameter: 3.80 inches	Volume: 56.49 bbl	Tool Weight: 2200.00 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: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 56.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	4042.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	52.00 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			4022.00	
Shut In Tool	5.00			4027.00	
Hydraulic tool	5.00			4032.00	
Packer	5.00			4037.00	21.00 Bottom Of Top Packer
Packer	5.00			4042.00	
Stubb	1.00			4043.00	
Perforations	3.00			4046.00	
Recorder	0.00	8369	Inside	4046.00	
Recorder	0.00	8700	Outside	4046.00	
Perforations	24.00			4070.00	
Bullnose	3.00			4073.00	31.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Charlie Ramsey

25-9s-25w Graham,KS
Steelsmith #25-2
Job Ticket: 52562 **DST#: 3**
Test Start: 2013.04.11 @ 16:55:36

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: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1100.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Mud	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

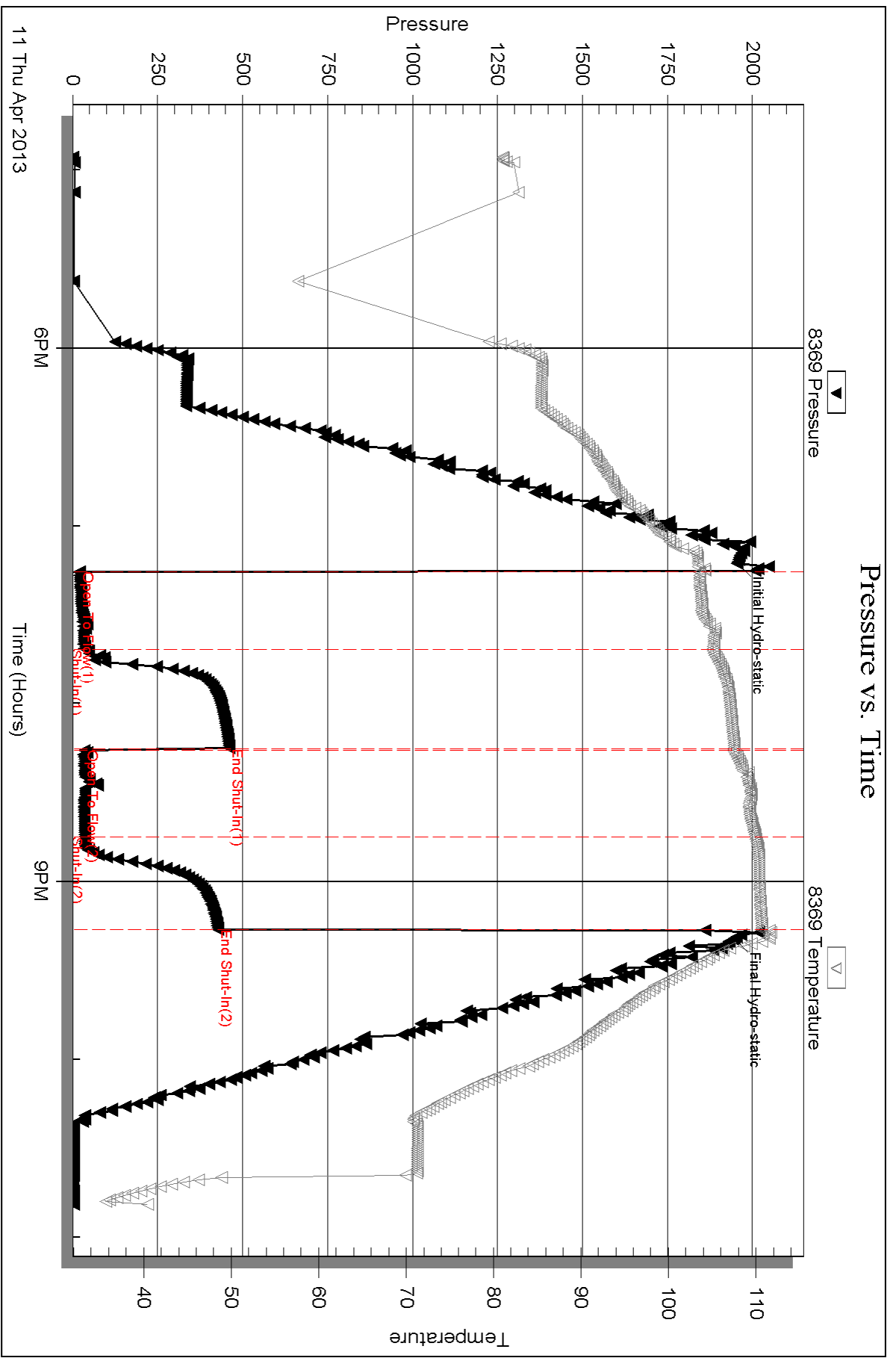
Serial #: 8369

Inside

H&C Oil Operating Inc

Steelsmith #25-2

DST Test Number: 3

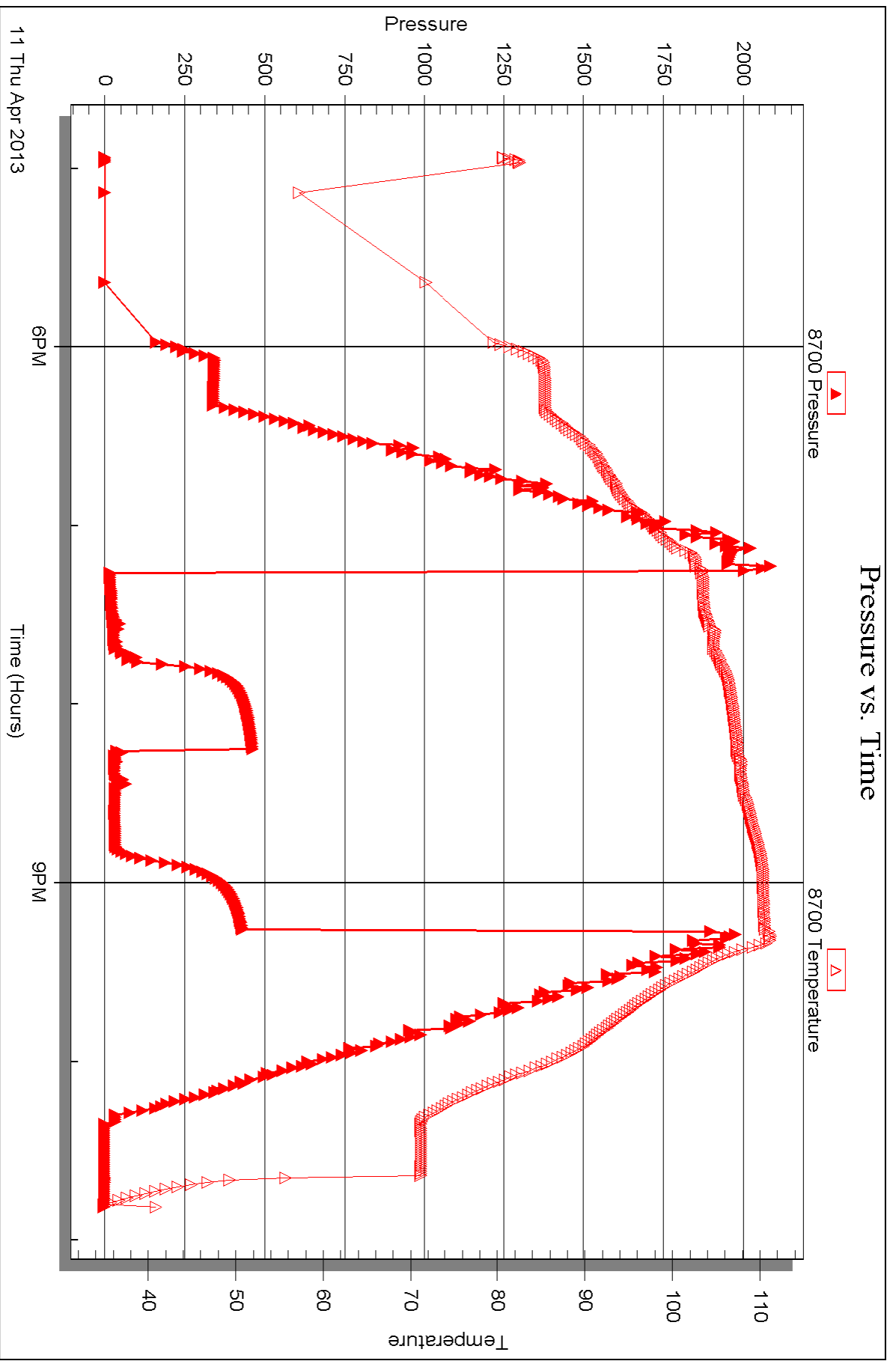


Serial #: 8700

Outside H&C Oil Operating Inc

Steelsmith #25-2

DST Test Number: 3





DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663-0086

ATTN: Charlie Ramsey

Steelsmith #25-2

25-9s-25w Graham,KS

Start Date: 2013.04.12 @ 08:45:48

End Date: 2013.04.12 @ 14:59:57

Job Ticket #: 52563 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.17 @ 14:56:48



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating Inc
 PO Box 86
 Plainville KS 67663-0086
 ATTN: Charlie Ramsey

25-9s-25w Graham,KS
Steelsmith #25-2
 Job Ticket: 52563 **DST#: 4**
 Test Start: 2013.04.12 @ 08:45:48

GENERAL INFORMATION:

Formation: **LKC I,J,K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:26:13
 Time Test Ended: 14:59:57
 Interval: **4073.00 ft (KB) To 4136.00 ft (KB) (TVD)**
 Total Depth: 4136.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 2590.00 ft (KB)
 2585.00 ft (CF)
 KB to GR/CF: 5.00 ft

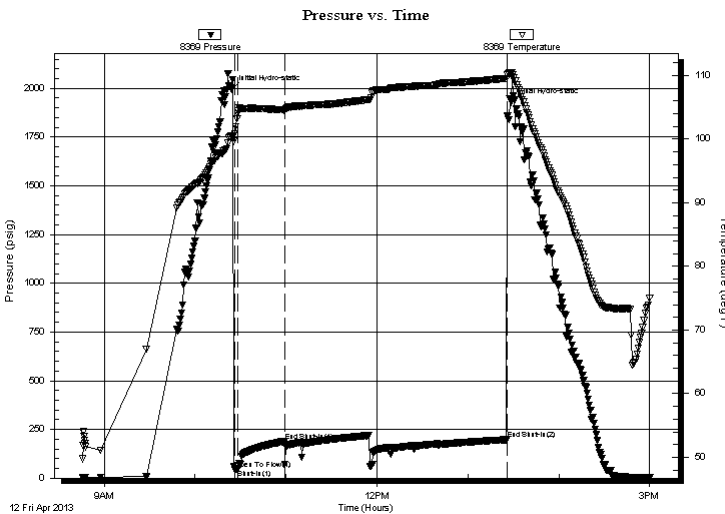
Serial #: 8369

Inside

Press @ Run Depth: 47.62 psig @ 4075.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.12 End Date: 2013.04.12 Last Calib.: 2013.04.12
 Start Time: 08:45:48 End Time: 14:59:57 Time On Btm: 2013.04.12 @ 10:23:58
 Time Off Btm: 2013.04.12 @ 13:28:27

TEST COMMENT: 45-IFP-w k to a fr bl , 1/2" to 5 1/2" bl
 45-ISIP-surface bl bk
 45-FFP-surface to 1/4" bl
 45-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1995.21	100.49	Initial Hydro-static
3	47.13	100.91	Open To Flow (1)
5	47.62	104.04	Shut-In(1)
35	188.83	104.59	End Shut-In(1)
182	197.18	109.56	End Shut-In(2)
185	1929.00	110.49	Final Hydro-static

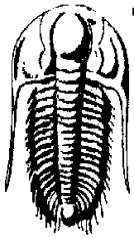
Recovery

Length (ft)	Description	Volume (bbl)
70.00	MW 45%M55%W w /show of oil	0.98

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Charlie Ramsey

25-9s-25w Graham,KS

Steelsmith #25-2

Job Ticket: 52563 **DST#: 4**
Test Start: 2013.04.12 @ 08:45:48

GENERAL INFORMATION:

Formation: LKC I,J,K		
Deviated: No Whipstock: ft (KB)		Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 10:26:13		Tester: Ray Schwager
Time Test Ended: 14:59:57		Unit No: 42
Interval: 4073.00 ft (KB) To 4136.00 ft (KB) (TVD)		Reference Elevations: 2590.00 ft (KB)
Total Depth: 4136.00 ft (KB) (TVD)		2585.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 5.00 ft

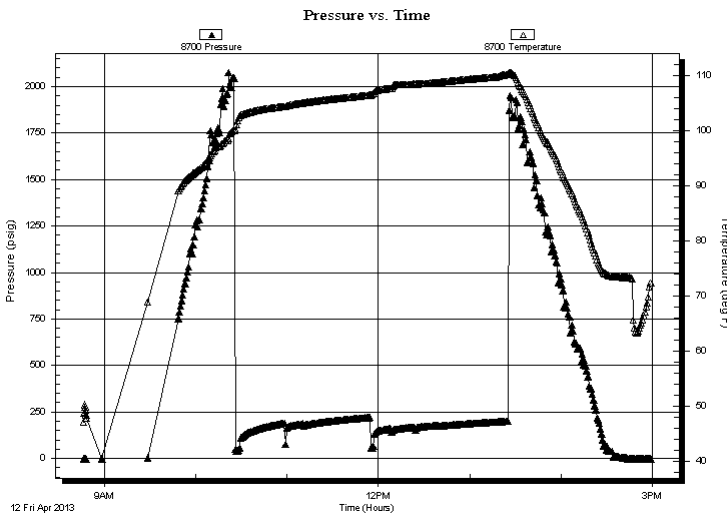
Serial #: 8700

Outside

Press@RunDepth: psig @ 4075.00 ft (KB)
 Start Date: 2013.04.12 End Date: 2013.04.12
 Start Time: 08:46:18 End Time: 14:59:12

Capacity: 8000.00 psig
 Last Calib.: 2013.04.12
 Time On Btm:
 Time Off Btm:

TEST COMMENT: 45-IFP-w k to a fr bl , 1/2" to 5 1/2" bl
 45-ISIP-surface bl bk
 45-FFP-surface to 1/4" bl
 45-FSIP-no bl



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
70.00	MW 45%M55%W w /show of oil	0.98

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
PO Box 86
Plainville KS 67663-0086
ATTN: Charlie Ramsey

25-9s-25w Graham,KS
Steelsmith #25-2
Job Ticket: 52563 **DST#: 4**
Test Start: 2013.04.12 @ 08:45:48

Tool Information

Drill Pipe:	Length: 4057.00 ft	Diameter: 3.80 inches	Volume: 56.91 bbl	Tool Weight: 2200.00 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: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 56.91 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	4073.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.00 ft			
Tool Length:	84.00 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			4053.00	
Shut In Tool	5.00			4058.00	
Hydraulic tool	5.00			4063.00	
Packer	5.00			4068.00	21.00 Bottom Of Top Packer
Packer	5.00			4073.00	
Stubb	1.00			4074.00	
Perforations	1.00			4075.00	
Recorder	0.00	8369	Inside	4075.00	
Recorder	0.00	8700	Outside	4075.00	
Blank Spacing	33.00			4108.00	
Perforations	25.00			4133.00	
Bullnose	3.00			4136.00	63.00 Bottom Packers & Anchor

Total Tool Length: 84.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Charlie Ramsey

25-9s-25w Graham,KS
Steelsmith #25-2
Job Ticket: 52563 **DST#: 4**
Test Start: 2013.04.12 @ 08:45:48

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:	75000 ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1100.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	MW 45%M55%W w/show of oil	0.982

Total Length: 70.00 ft Total Volume: 0.982 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: RW .11 @65F

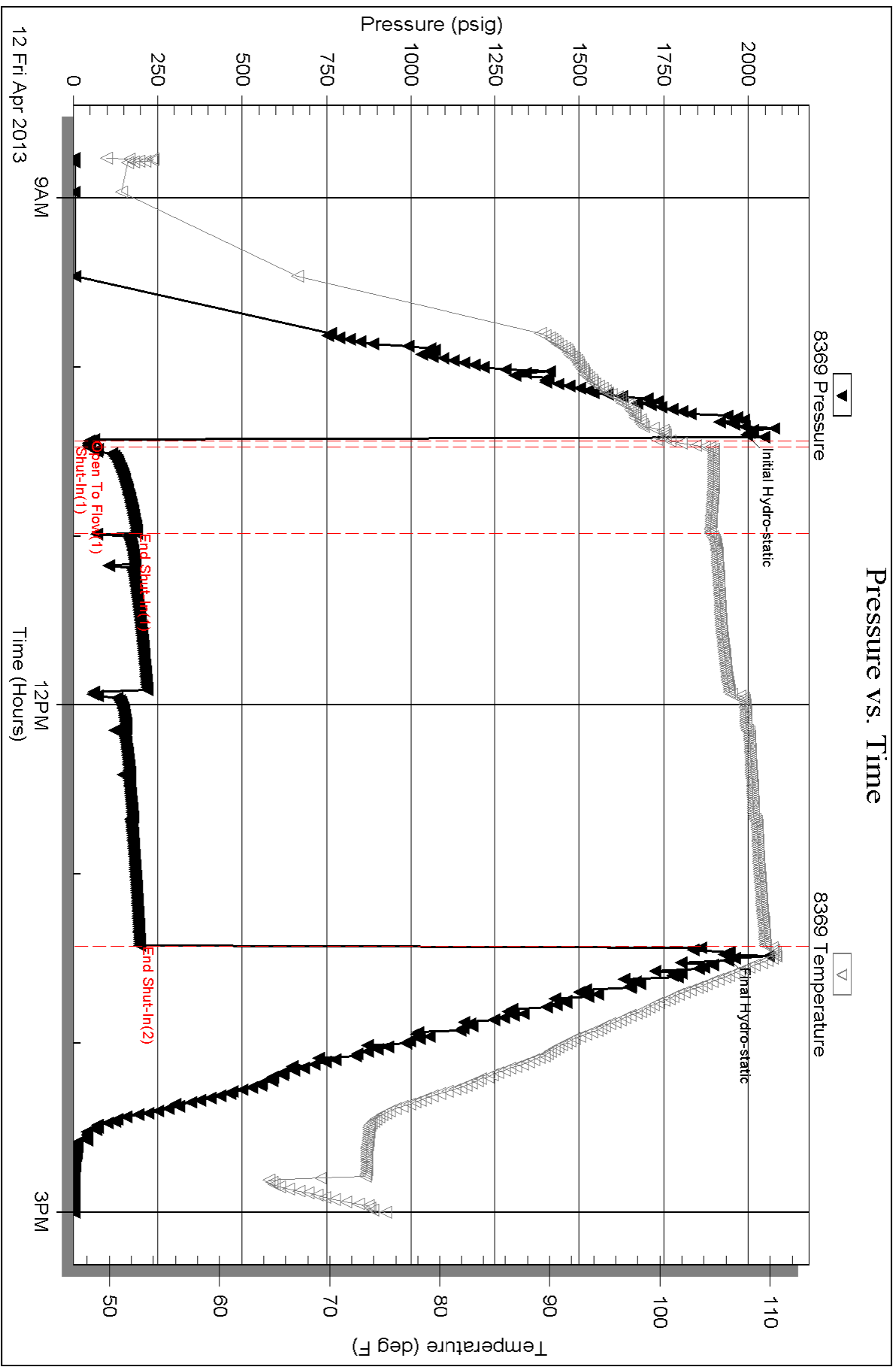
Serial #: 8369

Inside

H&C Oil Operating Inc

Steelsmith #25-2

DST Test Number: 4

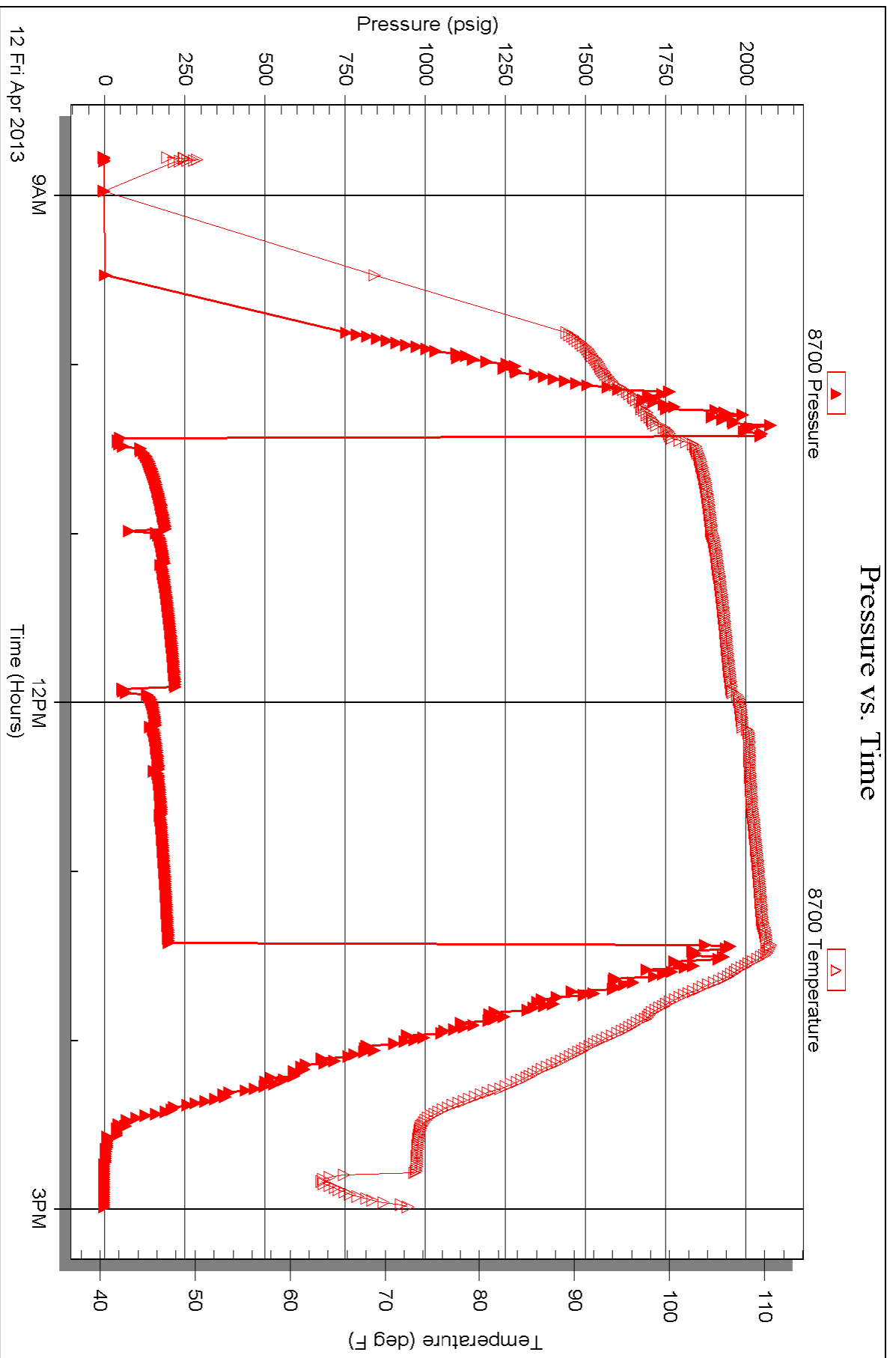


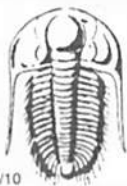
Serial #: 8700

Outside H&C Oil Operating Inc

Steelsmith #25-2

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52560

Well Name & No. STEELSMITH #25-2 Test No. 1 Date 4-8-13
 Company H+C Oil Operating Inc Elevation 2590 KB 2585 GL
 Address PO Box B6 Plainville, Mo 67663-0086
 Co. Rep / Geo. MAEC DOWNING Rig Am Eagle 1193
 Location: Sec. 25 Twp. 9^s Rge. 25^w Co. GRAHAM State K

Interval Tested 3936-3957 Zone Tested LKC "C"
 Anchor Length 21 Drill Pipe Run 3935 Mud Wt. 8.8
 Top Packer Depth 3931 Drill Collars Run - Vis 55
 Bottom Packer Depth 3936 Wt. Pipe Run - WL 6
 Total Depth 3957 Chlorides 1200 ppm System LCM 1#

Blow Description TFP - STRONG BLOW IN 3 MIN
ISIP - 1 1/2" BLOW BACK
FFP - STRONG BLOW IN 6 MIN
FSTIP - 2" BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>900</u>	<u>GIP</u>				
<u>375</u>	<u>CO</u>				
<u>30</u>	<u>MG0</u>	<u>10</u>	<u>80</u>		<u>10</u>
<u>124</u>	<u>0+6CMW</u>	<u>10</u>	<u>10</u>	<u>70</u>	<u>10</u>
Rec	Feet of	%gas	%oil	%water	%mud

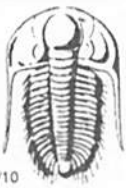
Rec Total 529 BHT 120 Gravity 38 API RW .15 @ 50 °F Chlorides 68000 ppm

(A) Initial Hydrostatic 1899 Test 1150 T-On Location 2250
 (B) First Initial Flow 72 Jars _____ T-Started 0030
 (C) First Final Flow 140 Safety Joint _____ T-Open 0250
 (D) Initial Shut-In 454 Circ Sub _____ T-Pulled 0520
 (E) Second Initial Flow 149 Hourly Standby _____ T-Out 0727 4-9-13
 (F) Second Final Flow 225 Mileage 123 RT 190.65 Comments Rig Backe down
 (G) Final Shut-In 453 Sampler _____ called Back for next
 (H) Final Hydrostatic 1892 Straddle _____ Test at 12am 4-11-13
 Ruined Shale Packer _____
 Ruined Packer _____

Initial Open 30 Extra Packer _____
 Initial Shut-In 45 Extra Recorder _____
 Final Flow 30 Day Standby _____
 Final Shut-In 45 Accessibility _____
 Sub Total 1340.65

Approved By _____ Our Representative RAY SCHWAGER Thank you

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. 52561

4/10

Well Name & No. STEELSMITH #25-2 Test No. 2 Date 4-11-13
 Company H+C Operating Inc Elevation 2590 KB 2585 GL
 Address PO Box 86 PLAINVILLE, Ks 67663-0086
 Co. Rep / Geo. MARC Downing Rig Am Eagle rig 3
 Location: Sec. 25 Twp. 9^s Rge. 25^w Co. GRAHAM State Ks

Interval Tested 3957-3985 Zone Tested LKC "0"
 Anchor Length 28 Drill Pipe Run 3966 Mud Wt. 9
 Top Packer Depth 3952 Drill Collars Run — Vis 64
 Bottom Packer Depth 3957 Wt. Pipe Run — WL 6.8
 Total Depth 3985 Chlorides 1300 ppm System LCM 1#

Blow Description IFP - STRONG BLOW IN 1 MIN
ISIP - STRONG BLOW BACK IN 10 MIN
FFP - STRONG BLOW THRU-OUT
FSIP - STRONG BLOW BACK IN 8 MIN

Rec	Feet of	%gas	%oil	%water	%mud
<u>2420</u>	<u>GIP</u>				
<u>340</u>	<u>CO</u>				
<u>62</u>	<u>GMO</u>	<u>20</u>	<u>65</u>		<u>15</u>

Rec Total 402 BHT 120 Gravity 38 API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic 1906 Test 1150 T-On Location 0050
 (B) First Initial Flow 78 Jars — T-Started 0125
 (C) First Final Flow 105 Safety Joint — T-Open 0350
 (D) Initial Shut-In 749 Circ Sub — T-Pulled 0520
 (E) Second Initial Flow 102 Hourly Standby — T-Out 0746
 (F) Second Final Flow 162 Mileage 190.65 Comments —
 (G) Final Shut-In 743 Sampler —
 (H) Final Hydrostatic 1884 Straddle — Ruined Shale Packer —
 Shale Packer — Ruined Packer —
 Extra Packer — Extra Copies —
 Extra Recorder —

Initial Open 15
 Initial Shut-In 30
 Final Flow 15
 Final Shut-In 30
 Sub Total 1340.65
 Sub Total 575
 Total 1915.65
 MP/DST Disc't —

Approved By _____ Our Representative Ray Schwager *thank you*

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. 52562

Well Name & No. STEELSMITH #25-2 Test No. 3 Date 4-11-13
 Company H + C OPERATING INC Elevation 2590 KB 2585 GL
 Address PO Box 86 Plainville, KS 67663-0086
 Co. Rep / Geo. MARC DOWNING Rig AM EAGLE RIG 3
 Location: Sec. 25 Twp. 9^s Rge. 25^w Co. GRAHAM State KS

Interval Tested 4042-4073 Zone Tested LKC "H"
 Anchor Length 31 Drill Pipe Run 4027 Mud Wt. 9.1
 Top Packer Depth 4037 Drill Collars Run - Vis 65
 Bottom Packer Depth 4042 Wt. Pipe Run - WL 6.8
 Total Depth 4073 Chlorides 1100 ppm System LCM 1#

Blow Description IFP - WEAK BLOW THRU-OUT 1/2" TO 1 1/4" BLOW
ISIP - NO BLOW
FFP - NO BLOW, 1ST 6 MIN, THEN SURFACE BLOW THRU-OUT
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 40 BHT 110 Gravity - API RW - @ - ° F Chlorides - ppm
 (A) Initial Hydrostatic 1955 Test 1250 T-On Location 1615
 (B) First Initial Flow 20 Jars T-Started 1655
 (C) First Final Flow 34 Safety Joint T-Open 1915
 (D) Initial Shut-In 460 Circ Sub T-Pulled 2115
 (E) Second Initial Flow 34 Hourly Standby T-Out 2249
 (F) Second Final Flow 36 Mileage 190.65 Comments _____
 (G) Final Shut-In 427 Sampler _____
 (H) Final Hydrostatic 1946 Straddle _____

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1340.65
 MP/DST Disc't _____
 Sub Total 1340.65

Approved By _____ Our Representative RAY SCHWAGER Thank you

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. 52563

4/10

Well Name & No. STEELSMITH # 25-2 Test No. 4 Date 4-12-13
 Company H+C OPERATING INC Elevation 2590 KB 2585 GL
 Address PO Box 86 PLAINVILLE, KS 67663-0086
 Co. Rep / Geo. MARC DOWNING Rig AM EAGLE 1193
 Location: Sec. 25 Twp. 9^s Rge. 25^w Co. GRAHAM State KS

Interval Tested 4073-4136 Zone Tested LKC IJK
 Anchor Length 63 Drill Pipe Run 4057 Mud Wt. 9.2
 Top Packer Depth 4068 Drill Collars Run - Vis 61
 Bottom Packer Depth 4073 Wt. Pipe Run - WL 6.8
 Total Depth 4136 Chlorides 1100 ppm System LCM 1#
 Blow Description I FP - WEAK TO A FAIR BLOW 1/2" TO 5/8" BLOW
ISIP - SURFACE BLOW BACK 1ST 20 MIN
FFP - SURFACE TO 1/4" BLOW
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>of MW</u>			<u>55</u>	<u>45</u>
	<u>w/show foil</u>				

Rec Total 70 BHT 110 Gravity - API RW .11 @ 65 ° F Chlorides 75000 ppm
 (A) Initial Hydrostatic 1995 Test 1250 T-On Location 0830
 (B) First Initial Flow 47 Jars - T-Started 0845
 (C) First Final Flow 47 Safety Joint - T-Open 1025
 (D) Initial Shut-In 188 Circ Sub - T-Pulled 1325
 (E) Second Initial Flow - Hourly Standby - T-Out 1459
 (F) Second Final Flow - Mileage 190.65 Comments _____
 (G) Final Shut-In 195 Sampler _____
 (H) Final Hydrostatic 1929 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1340.65
 Sub Total 1340.65
 Sub Total 0
 Total 1340.65
 MP/DST Disc't _____

Approved By _____ Our Representative RAY SCHWAGER *thank you*
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

No. 6762

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

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

Date	4-13-13	Sec.	25	Twp.	9	Range	25	County	GRAHAM	State	KANSAS	On Location		Finish	3:20 pm
Lease	STEELSMITH														
Contractor	R.E. #3														
Type Job	IRON STRING														
Hole Size	7 7/8"														
Csg.	5 1/2" - 14 1/2" NEW														
Tbg. Size	T.D. 4,200														
Tool	Depth 4,196														
Tool	Depth														
Cement Left in Csg.	Shoe Joint 22.47														
Meas Line	Displace 102 Bbls														
EQUIPMENT															
Pumptrk #	9	Cementer	GUS SA												
		Helper	TRAVIS H												
Bulktrk #	13	Driver	BILLY K.												
Bulktrk #	1	Driver	DAVIN L.												
JOB SERVICES & REMARKS															
Remarks:															
Flat Hole															
Mouse Hole															
Centralizer	23, 5, 16, 7, 35, 46, 17, 80														
Baskets	36, 47, 68, 81														
D/W of Port Collar															
Handling	672														
Mileage	FLOAT EQUIPMENT														
Guide Shoe															
Centralizer	10 - 5 1/2" TUBES														
Baskets	8 - 5 1/2" BASKETS														
AFU Inserts															
Float Shoe	1 - 5 1/2" w/ BALL														
Latch Down	1 - 5 1/2" w/ PLUG														
	20 - RECIPROCATING SCRAPERS														
Pumptrk Charge	470														
Mileage	470														
Tax															
Discount															
Total Charge															

Signature

THANK YOU!

X Signature

QUALITY C'WELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

No. 6754

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

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

Date	4-4-13	Sec.	25	Twp.	9	Range	25	County	Graham	State	KANSAS	On Location		Finish	10:00pm
Lease	SIELSMITH														
Contractor	A.E. #3														
Type Job	SURFACE														
Hole Size	12 1/4														
Csg.	8 7/8														
Tbg. Size															
Tool															
Cement Left in Csg.															
Meas Line	Displace 1836lb														
EQUIPMENT															
Pumptrk #	No.	Cement													
	10	Helper	TRAVIS												
Bulktrk #	No.	Driver	BILLY												
Bulktrk #	No.	Driver	CISCO												
JOB SERVICES & REMARKS															
Remarks:															
Rat Hole															
Mouse Hole															
Centralizers															
Baskets															
DN or Port Collar															
	CEMENT DID CIRCULATE!														
	Mileage 264														
	FLOAT EQUIPMENT														
	Guide Shoe														
	Centralizer														
	Baskets														
	AFU Inserts														
	Float Shoe														
	Latch Down														
	Pumptrk Charge Surface														
	Mileage 300 47														
	Tax														
	Discount														
	Total Charge														

Quality Cementing
 THANK YOU!

X
Signature

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

May 16, 2013

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

Re: ACO1
API 15-065-23917-00-00
Steelsmith 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