



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1102987
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: _____



1102987

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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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

November 29, 2012

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

Re: ACO1
API 15-065-23867-00-00
Augustine 14-1
NE/4 Sec.14-06S-24W
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: HFC Oil Operations, Inc.
 WELL: Augusthine #14-1
 FIELD: Wildcat
 LOCATION: 65S FNL + 165S FEL
 SEC. 14 TWP. 6S RGE. 24W
 COUNTY: Graham
 STATE: Kansas
 OPERATOR: HFC Oil Operations, Inc.
 CONTRACTOR: American Eagle, #3
 COMM. 11-9-12
 SURF: 88' @
 TOTAL DEPTH DRILLERS: 3925
 TOTAL DEPTH LOG: 3927

PRODUCTION: D&A
 ELEVATION: KB 2458
 DF: 2453
 GI: 2453
 Drilling Measured From: KB
 Samples Saved From: 3450 to TD
 Drilling Time From: 3350 to TD
 Samples Examined From: 3450 to TD
 Geological Supervisors From: [blank]
 Wellsite Geologist: Marc Downing
 Electrical Surveyors: Panner
 DIT: [blank]
 MCL: [blank]

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DRUM	STRUCTURAL POSITION
Top Anhydrite	2133	2133	1325	12
Base Anhydrite	2142	2143	1295	15
Tapoka	3459	3460	-1022	+1
Heegner	3655	3657	-1199	+4
Toronto	3679	3680	-1222	+6
LKC	3696	3698	-1245	+5
BKC	3926	3928	-1422	+7

FORMATION TOPS AND STRUCTURAL POSITION

REFERENCE WELL FOR STRUCTURE: Hays Oil Co. Sec. 14-6S-24W
 Augusthine #1 Sec. NE-N14

No.	Interval	IFP/Time	ISIP/Time	FFP/Time	FSIP/Time	HP-FHP	RECOVERY

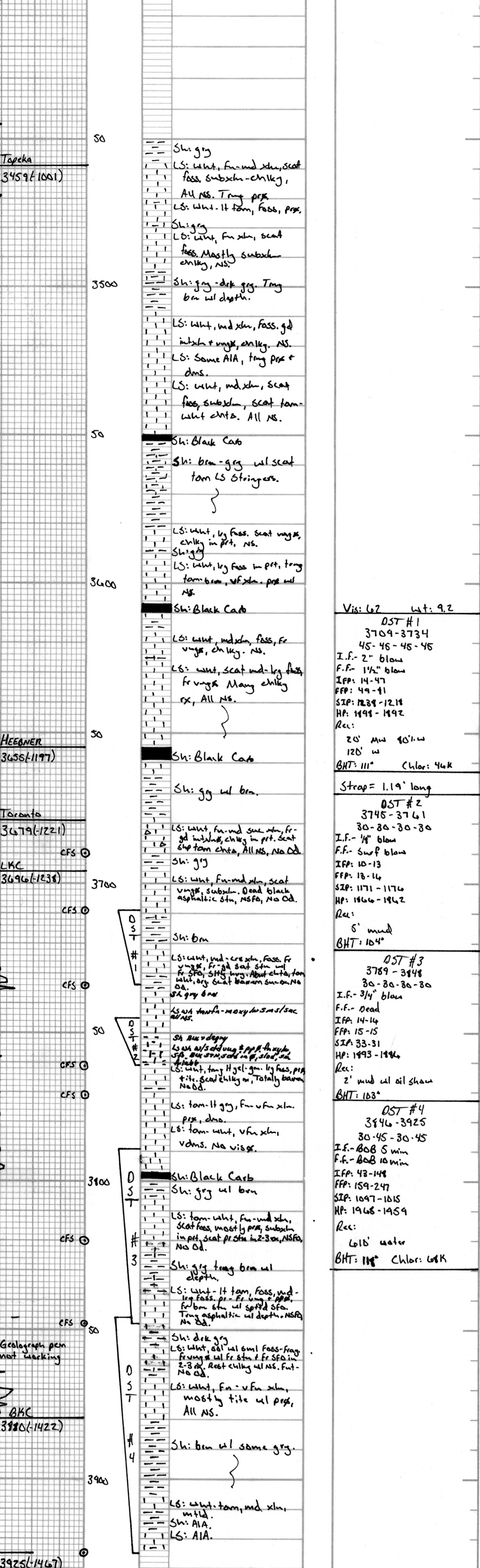
REMARKS AND RECOMMENDATIONS: Due to structural position, DST recovery, & log evaluations, it was decided to plug & abandon this well.

MEMBERS

LEGEND

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DRILLING TIME IN MINUTES PER FOOT
 Rate of Penetration Decreases
 5" 10" 15"



RTD: 3925(-1467)
 LTD: 3927(-1469)



DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663-0086

ATTN: Charles Ramsey

Augustine #14-1

14-6s-24w Graham,KS

Start Date: 2012.11.13 @ 03:10:51

End Date: 2012.11.13 @ 10:38:15

Job Ticket #: 48594 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.21 @ 09:07:47



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

14-6s-24w Graham, KS
Augustine #14-1
 Job Ticket: 48594 **DST#: 1**
 Test Start: 2012.11.13 @ 03:10:51

GENERAL INFORMATION:

Formation: **LKC "C"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 06:06:16 Tester: Ray Schwager
 Time Test Ended: 10:38:15 Unit No: 42
 Interval: **3709.00 ft (KB) To 3734.00 ft (KB) (TVD)** Reference Elevations: 2458.00 ft (KB)
 Total Depth: 3734.00 ft (KB) (TVD) 2453.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

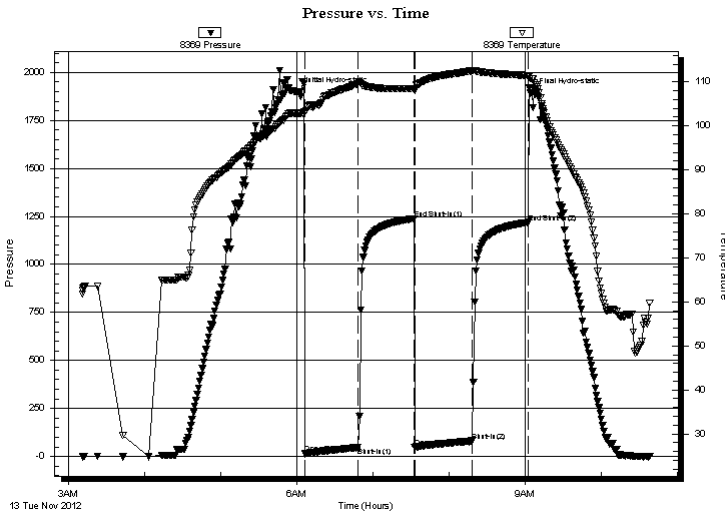
Serial #: 8369

Inside

Press @ Run Depth: 81.68 psig @ 3710.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.11.13 End Date: 2012.11.13 Last Calib.: 2012.11.13
 Start Time: 03:10:51 End Time: 10:38:15 Time On Btm: 2012.11.13 @ 06:01:16
 Time Off Btm: 2012.11.13 @ 09:05:15

TEST COMMENT: 45-IFP-w k bl thru-out 1/2" to 2" bl
 45-ISIP-no bl
 45-FFP-w k bl thru-out 1/4" to 1 1/2" bl
 45-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1898.67	102.81	Initial Hydro-static
5	14.44	103.02	Open To Flow (1)
47	47.37	109.58	Shut-In(1)
91	1238.16	108.38	End Shut-In(1)
92	49.10	108.08	Open To Flow (2)
137	81.68	112.49	Shut-In(2)
181	1218.88	111.46	End Shut-In(2)
184	1892.90	110.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	MW 20%M80%W	0.28
120.00	Water	1.68

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: Charles Ramsey

14-6s-24w Graham,KS
Augustine #14-1
 Job Ticket: 48594 **DST#: 1**
 Test Start: 2012.11.13 @ 03:10:51

GENERAL INFORMATION:

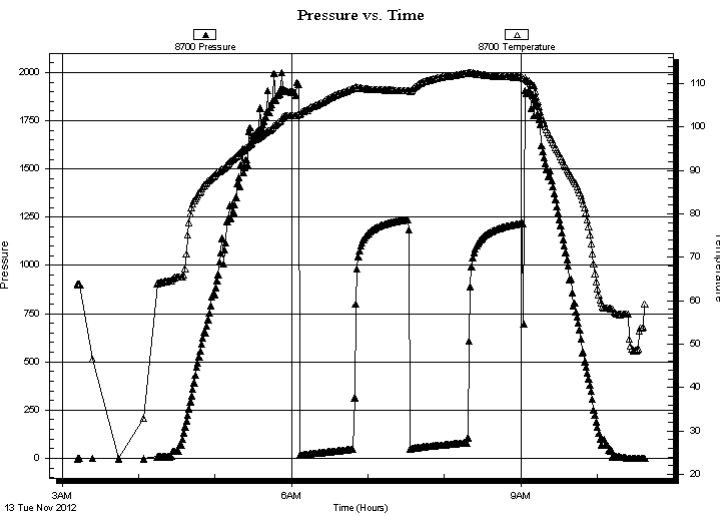
Formation: **LKC "C"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 06:06:16
 Tester: Ray Schwager
 Time Test Ended: 10:38:15
 Unit No: 42
Interval: 3709.00 ft (KB) To 3734.00 ft (KB) (TVD)
 Reference Elevations: 2458.00 ft (KB)
 Total Depth: 3734.00 ft (KB) (TVD)
 2453.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 8700

Outside

Press @ Run Depth: psig @ 3710.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.11.13 End Date: 2012.11.13 Last Calib.: 2012.11.13
 Start Time: 03:11:53 End Time: 10:37:47 Time On Btm:
 Time Off Btm:

TEST COMMENT: 45-IFP-w k bl thru-out 1/2" to 2" bl
 45-ISIP-no bl
 45-FFP-w k bl thru-out 1/4" to 1 1/2" bl
 45-FSIP-no bl



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	MW 20%M80%W	0.28
120.00	Water	1.68

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

14-6s-24w Graham,KS
Augustine #14-1
 Job Ticket: 48594 **DST#: 1**
 Test Start: 2012.11.13 @ 03:10:51

Tool Information

Drill Pipe:	Length: 3713.00 ft	Diameter: 3.80 inches	Volume: 52.08 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: 52.08 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3709.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	46.00 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			3689.00	
Shut In Tool	5.00			3694.00	
Hydraulic tool	5.00			3699.00	
Packer	5.00			3704.00	21.00 Bottom Of Top Packer
Packer	5.00			3709.00	
Stubb	1.00			3710.00	
Recorder	0.00	8369	Inside	3710.00	
Recorder	0.00	8700	Outside	3710.00	
Perforations	21.00			3731.00	
Bullnose	3.00			3734.00	25.00 Bottom Packers & Anchor
Total Tool Length:	46.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

14-6s-24w Graham,KS
Augustine #14-1
 Job Ticket: 48594 **DST#: 1**
 Test Start: 2012.11.13 @ 03:10:51

Mud and Cushion Information

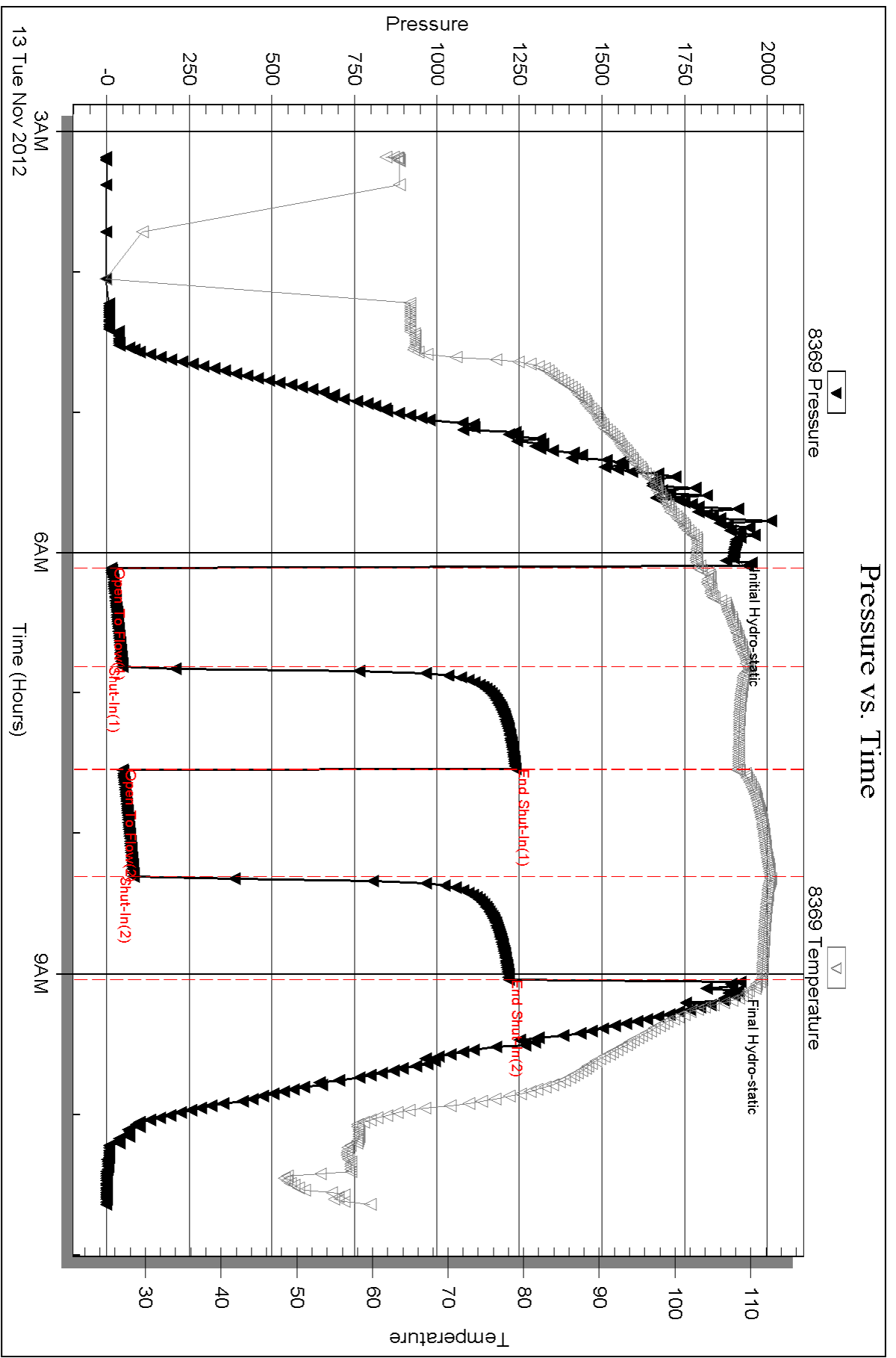
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	46000 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.90 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	MW 20%M80%W	0.281
120.00	Water	1.683

Total Length: 140.00 ft Total Volume: 1.964 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW .17 @65F

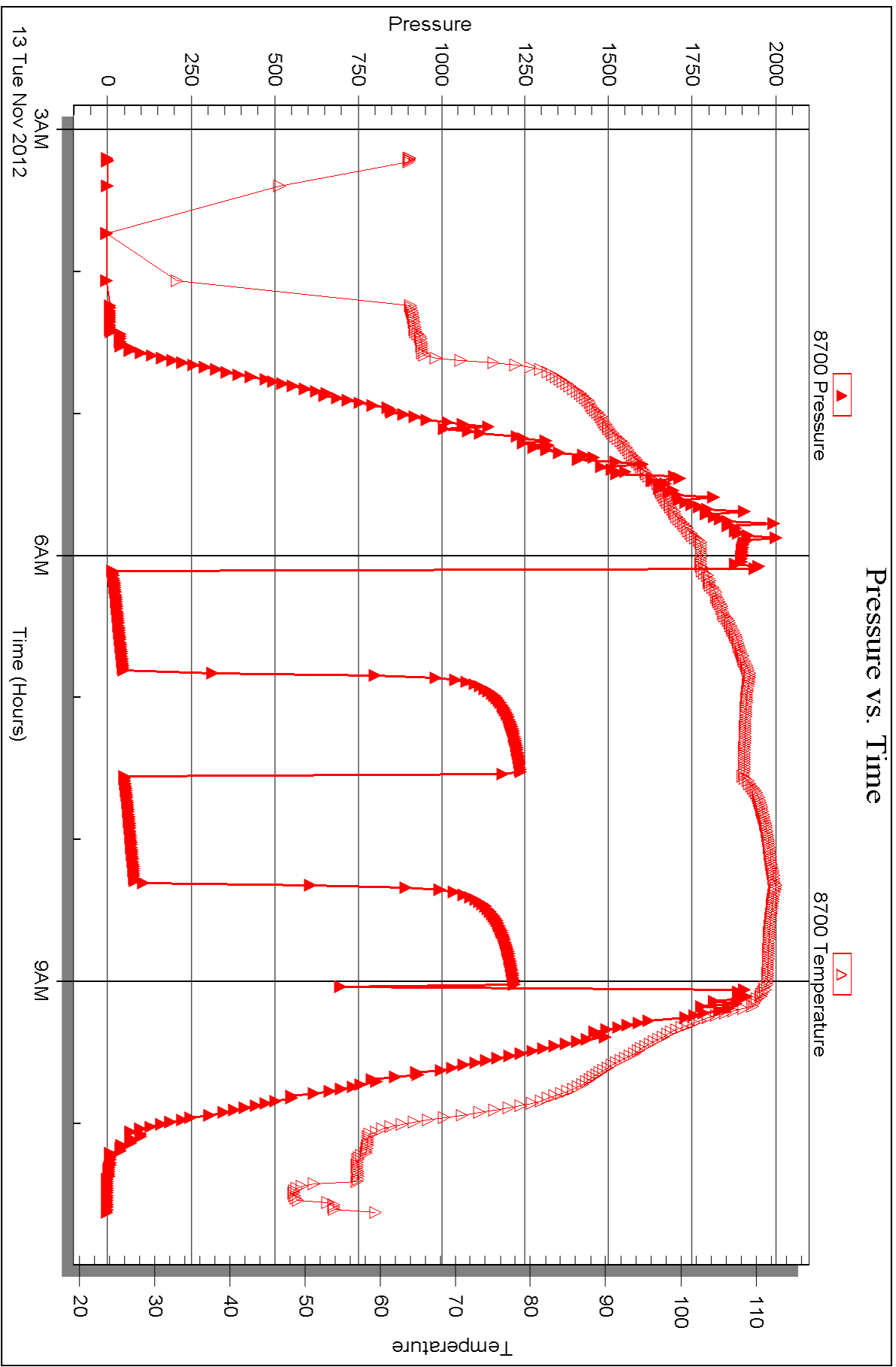


Serial #: 8700

Outside H&C Oil Operating Inc

Augustine #14-1

DST Test Number: 1





DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663-0086

ATTN: Charles Ramsey

Augustine #14-1

14-6s-24w Graham,KS

Start Date: 2012.11.13 @ 19:35:14

End Date: 2012.11.14 @ 01:30:08

Job Ticket #: 48595 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.21 @ 09:06:55



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

14-6s-24w Graham,KS

Augustine #14-1

Job Ticket: 48595

DST#: 2

Test Start: 2012.11.13 @ 19:35:14

GENERAL INFORMATION:

Formation: **LKC "E"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:40:09
 Time Test Ended: 01:30:08
 Interval: **3745.00 ft (KB) To 3761.00 ft (KB) (TVD)**
 Total Depth: 3761.00 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: 2458.00 ft (KB)
 2453.00 ft (CF)
 KB to GR/CF: 5.00 ft

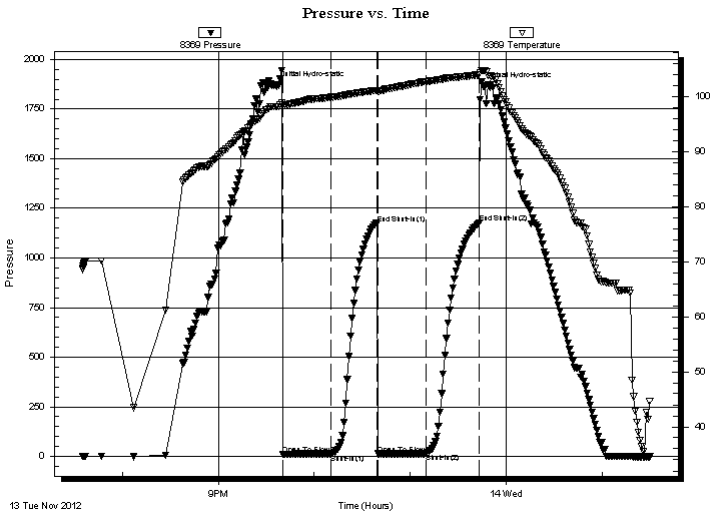
Serial #: 8369

Inside

Press @ Run Depth: 16.58 psig @ 3746.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.11.13 End Date: 2012.11.14 Last Calib.: 2012.11.14
 Start Time: 19:35:14 End Time: 01:30:08 Time On Btm: 2012.11.13 @ 21:36:09
 Time Off Btm: 2012.11.13 @ 23:46:09

TEST COMMENT: 30-IFP-vy w k bl thru-out 1/8" to surface bl
 30-ISIP-no bl
 30-FFP-surface bl thru-out
 30-FSP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1866.53	98.10	Initial Hydro-static
4	10.52	98.46	Open To Flow (1)
35	13.57	99.85	Shut-In(1)
63	1171.68	101.09	End Shut-In(1)
64	13.41	100.87	Open To Flow (2)
94	16.58	102.68	Shut-In(2)
127	1176.62	103.95	End Shut-In(2)
130	1862.32	104.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.07

* 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: Charles Ramsey

14-6s-24w Graham, KS
Augustine #14-1
 Job Ticket: 48595 **DST#: 2**
 Test Start: 2012.11.13 @ 19:35:14

GENERAL INFORMATION:

Formation: **LKC "E"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:40:09
 Time Test Ended: 01:30:08
Interval: 3745.00 ft (KB) To 3761.00 ft (KB) (TVD)
 Total Depth: 3761.00 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: 2458.00 ft (KB)
 2453.00 ft (CF)
 KB to GR/CF: 5.00 ft

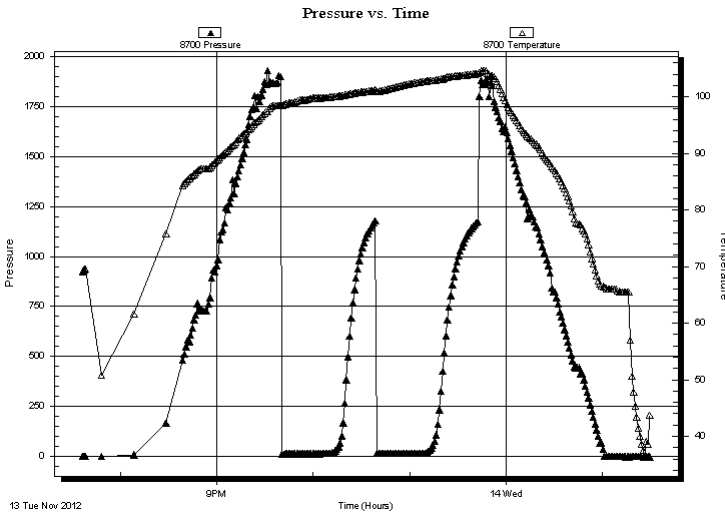
Serial #: 8700

Outside

Press @ Run Depth: psig @ 3746.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.11.13 End Date: 2012.11.14 Last Calib.: 2012.11.14
 Start Time: 19:36:14 End Time: 01:29:38 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IFP-vy w k bl thru-out 1/8" to surface bl
 30-ISIP-no bl
 30-FFP-surface bl thru-out
 30-FSP-no bl

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

14-6s-24w Graham,KS
Augustine #14-1
Job Ticket: 48595 **DST#: 2**
Test Start: 2012.11.13 @ 19:35:14

Tool Information

Drill Pipe:	Length: 3746.00 ft	Diameter: 3.80 inches	Volume: 52.55 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: 52.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3745.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	37.00 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			3725.00	
Shut In Tool	5.00			3730.00	
Hydraulic tool	5.00			3735.00	
Packer	5.00			3740.00	21.00 Bottom Of Top Packer
Packer	5.00			3745.00	
Stubb	1.00			3746.00	
Recorder	0.00	8369	Inside	3746.00	
Recorder	0.00	8700	Outside	3746.00	
Perforations	12.00			3758.00	
Bullnose	3.00			3761.00	16.00 Bottom Packers & Anchor
Total Tool Length:	37.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

14-6s-24w Graham,KS
Augustine #14-1
 Job Ticket: 48595 **DST#: 2**
 Test Start: 2012.11.13 @ 19:35:14

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: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.70 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

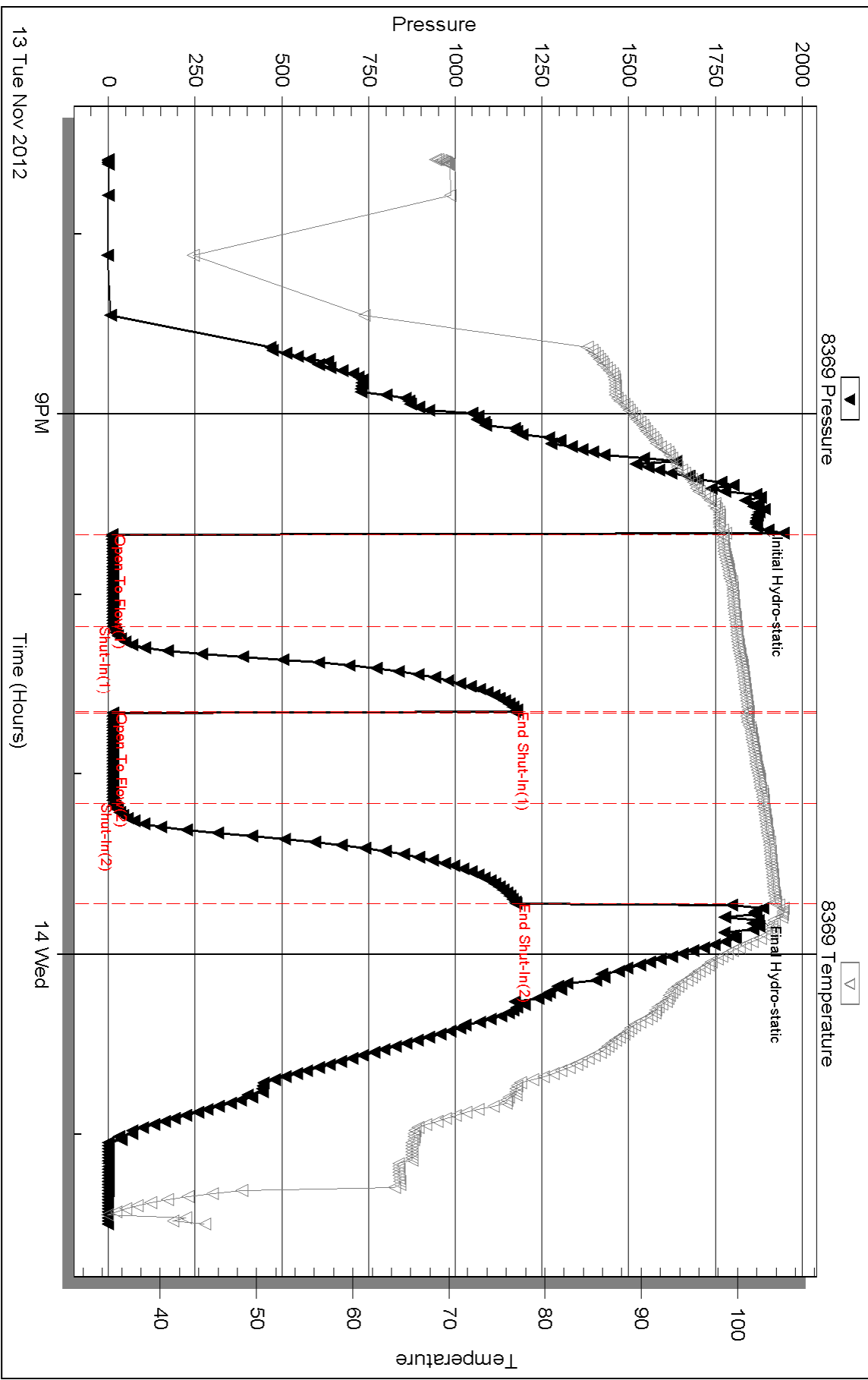
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time

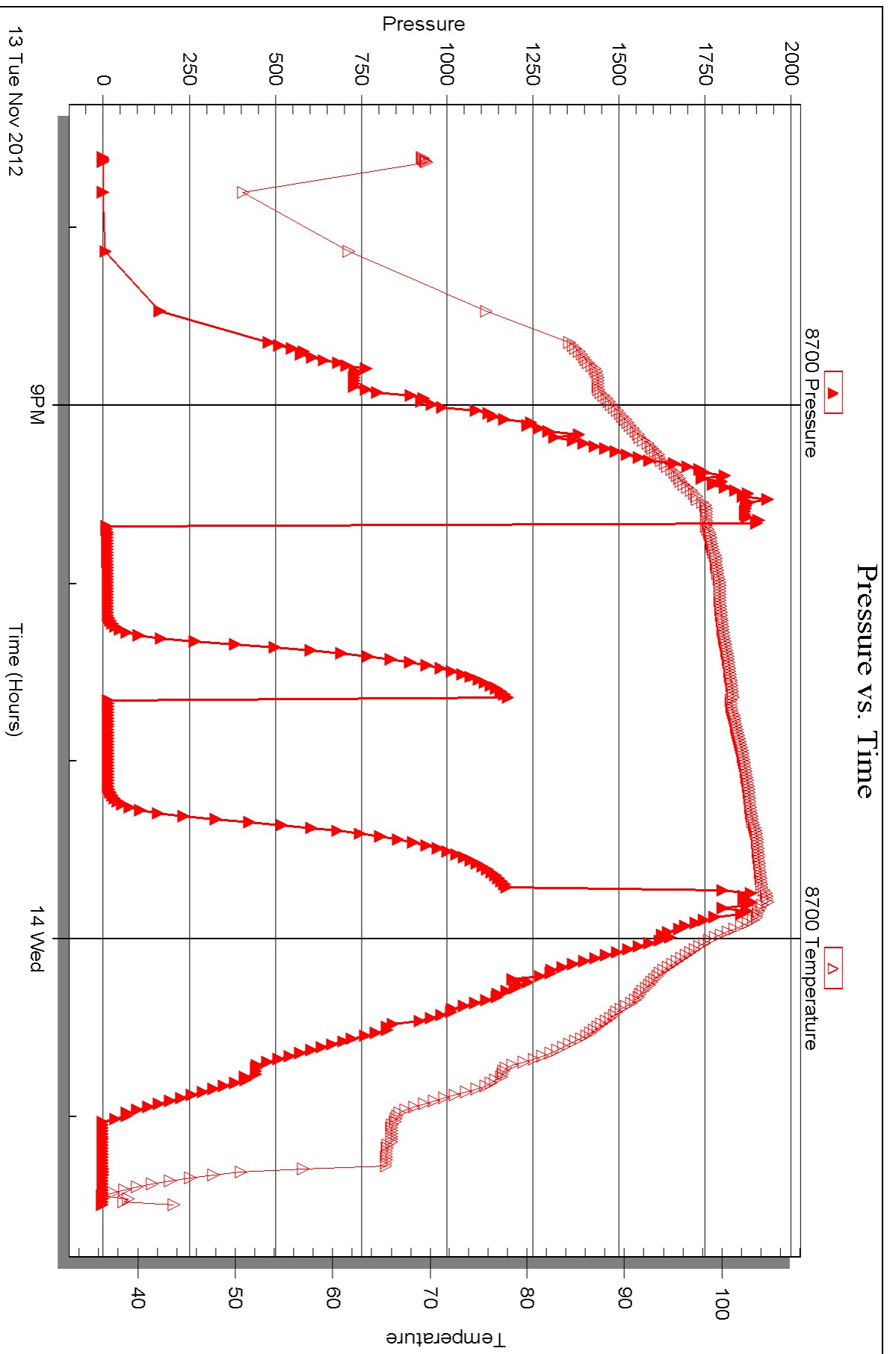


Serial #: 8700

Outside H&C Oil Operating Inc

Augustine #14-1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 48595

Printed: 2012.11.21 @ 09:07:00



DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663-0086

ATTN: Charles Ramsey

Augustine #14-1

14-6s-24w Graham,KS

Start Date: 2012.11.14 @ 15:56:00

End Date: 2012.11.14 @ 21:38:54

Job Ticket #: 48596 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.21 @ 09:06:09



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

14-6s-24w Graham,KS

Augustine #14-1

Job Ticket: 48596

DST#: 3

Test Start: 2012.11.14 @ 15:56:00

GENERAL INFORMATION:

Formation: **LKC H-J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:01:25
 Time Test Ended: 21:38:54
 Interval: **3789.00 ft (KB) To 3848.00 ft (KB) (TVD)**
 Total Depth: 3848.00 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: 2458.00 ft (KB)
 2453.00 ft (CF)
 KB to GR/CF: 5.00 ft

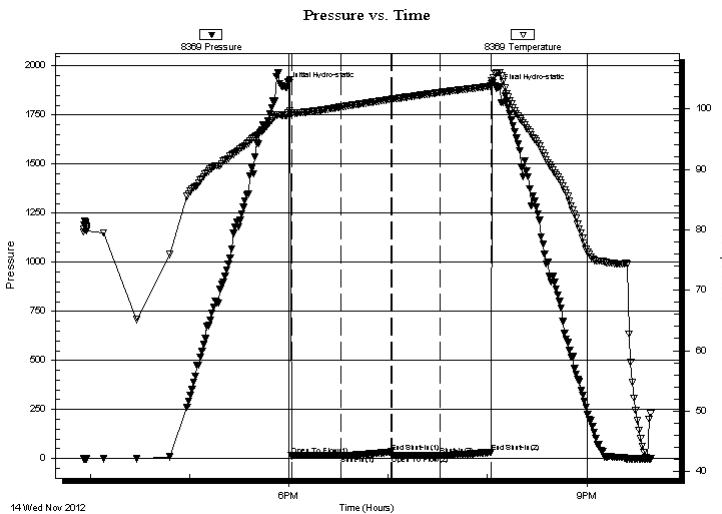
Serial #: 8369

Inside

Press @ Run Depth: 15.65 psig @ 3793.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.11.14 End Date: 2012.11.14 Last Calib.: 2012.11.14
 Start Time: 15:56:00 End Time: 21:38:54 Time On Btm: 2012.11.14 @ 17:57:55
 Time Off Btm: 2012.11.14 @ 20:05:25

TEST COMMENT: 30-IFP-w k bl thru-out 1/4" to 3/4" bl
 30-ISIP-no bl
 30-FFP-no bl
 30-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1893.09	98.96	Initial Hydro-static
4	14.56	99.06	Open To Flow (1)
34	16.19	100.30	Shut-In(1)
64	33.88	101.57	End Shut-In(1)
64	15.49	101.58	Open To Flow (2)
94	15.65	102.71	Shut-In(2)
124	31.89	103.75	End Shut-In(2)
128	1886.80	105.90	Final Hydro-static

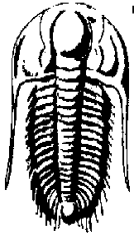
Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud w/show of oil	0.03

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

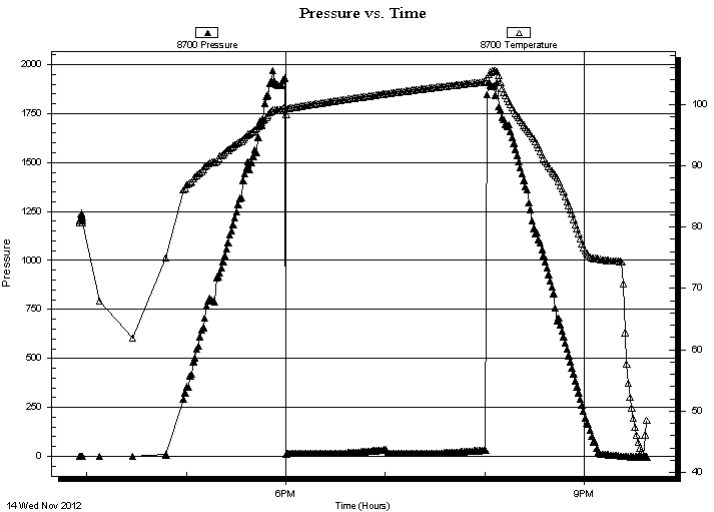
14-6s-24w Graham,KS
Augustine #14-1
 Job Ticket: 48596 **DST#: 3**
 Test Start: 2012.11.14 @ 15:56:00

GENERAL INFORMATION:

Formation: **LKC H-J**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 18:01:25 Tester: Ray Schwager
 Time Test Ended: 21:38:54 Unit No: 42
Interval: 3789.00 ft (KB) To 3848.00 ft (KB) (TVD)
 Reference Elevations: 2458.00 ft (KB)
 Total Depth: 3848.00 ft (KB) (TVD) 2453.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8700 Outside
 Press @ Run Depth: psig @ 3793.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.11.14 End Date: 2012.11.14 Last Calib.: 2012.11.14
 Start Time: 15:55:53 End Time: 21:37:17 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IFP-w k bl thru-out 1/4" to 3/4" bl
 30-ISIP-no bl
 30-FFP-no bl
 30-FSIP-no bl



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud w/show of oil	0.03

* 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 Operatting Inc
 PO Box 86
 Plainville KS 67663-0086
 ATTN: Charles Ramsey

14-6s-24w Graham,KS
Augustine #14-1
 Job Ticket: 48596 **DST#: 3**
 Test Start: 2012.11.14 @ 15:56:00

Tool Information

Drill Pipe:	Length: 3779.00 ft	Diameter: 3.80 inches	Volume: 53.01 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: 53.01 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	41000.00 lb
Depth to Top Packer:	3789.00 ft			Final	41000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	59.00 ft				
Tool Length:	80.00 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			3769.00	
Shut In Tool	5.00			3774.00	
Hydraulic tool	5.00			3779.00	
Packer	5.00			3784.00	21.00 Bottom Of Top Packer
Packer	5.00			3789.00	
Stubb	1.00			3790.00	
Perforations	3.00			3793.00	
Recorder	0.00	8369	Inside	3793.00	
Recorder	0.00	8700	Outside	3793.00	
Blank Spacing	32.00			3825.00	
Perforations	20.00			3845.00	
Bullnose	3.00			3848.00	59.00 Bottom Packers & Anchor

Total Tool Length: 80.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

14-6s-24w Graham,KS
Augustine #14-1
 Job Ticket: 48596 **DST#: 3**
 Test Start: 2012.11.14 @ 15:56:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.95 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud w/show of oil	0.028

Total Length: 2.00 ft Total Volume: 0.028 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

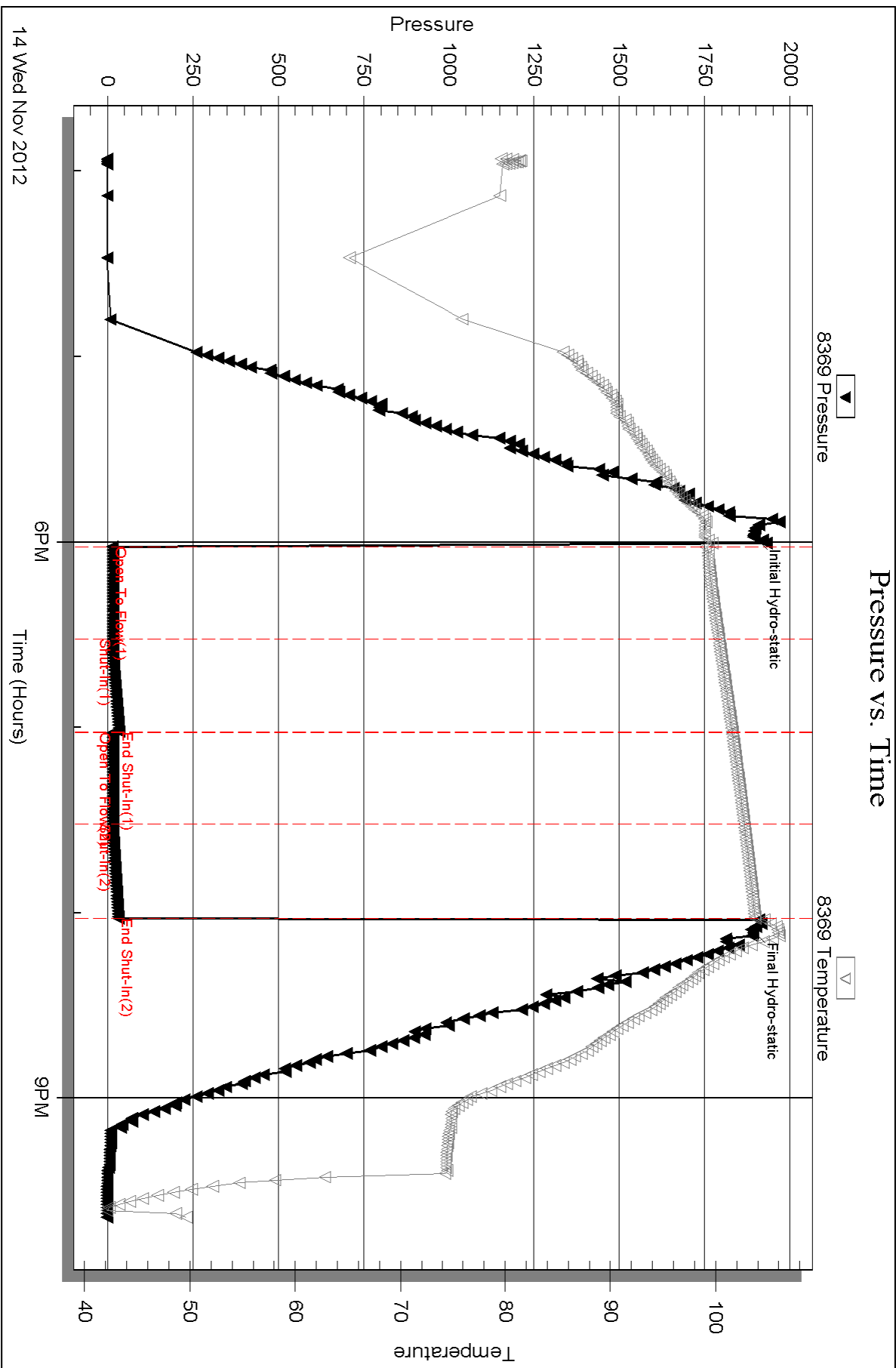
Serial #: 8369

Inside

H&C Oil Operating Inc

Augustine #14-1

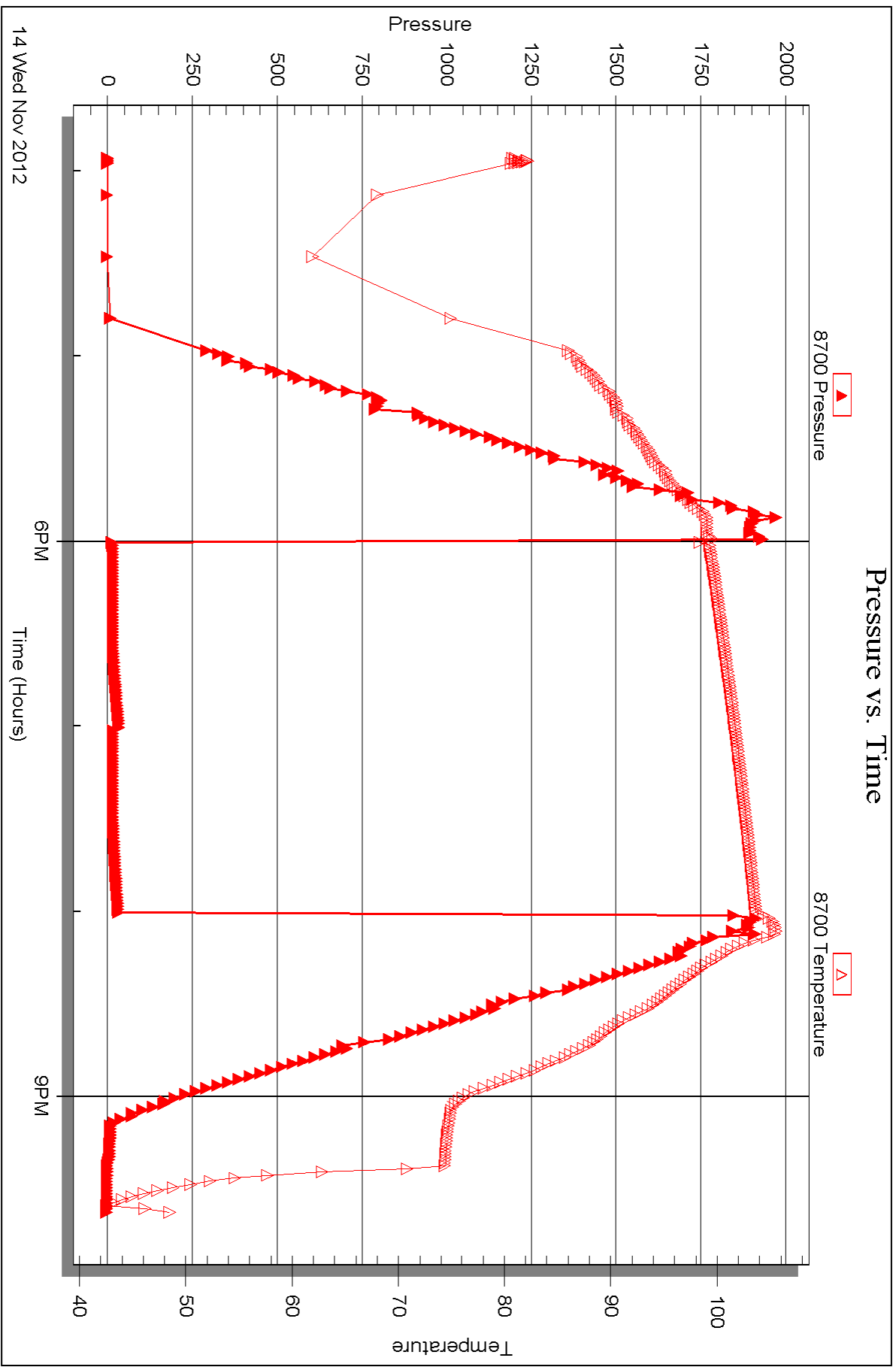
DST Test Number: 3



Triobite Testing, Inc

Ref. No: 48596

Printed: 2012.11.21 @ 09:06:13





DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663-0086

ATTN: Charles Ramsey

Augustine #14-1

14-6s-24w Graham,KS

Start Date: 2012.11.15 @ 12:25:11

End Date: 2012.11.15 @ 18:16:35

Job Ticket #: 48597 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.21 @ 09:05:25



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

14-6s-24w Graham,KS

Augustine #14-1

Job Ticket: 48597

DST#: 4

Test Start: 2012.11.15 @ 12:25:11

GENERAL INFORMATION:

Formation: **LKC K-L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:00:36
 Time Test Ended: 18:16:35
 Interval: **3846.00 ft (KB) To 3925.00 ft (KB) (TVD)**
 Total Depth: 3925.00 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: 2458.00 ft (KB)
 2453.00 ft (CF)
 KB to GR/CF: 5.00 ft

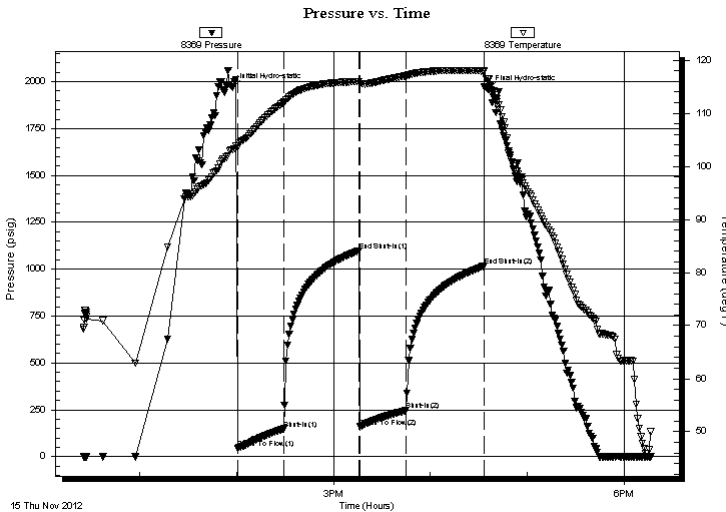
Serial #: 8369

Inside

Press @ Run Depth: 246.52 psig @ 3850.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.11.15 End Date: 2012.11.15 Last Calib.: 2012.11.15
 Start Time: 12:25:11 End Time: 18:16:35 Time On Btm: 2012.11.15 @ 13:57:36
 Time Off Btm: 2012.11.15 @ 16:36:06

TEST COMMENT: 30-IFP-strg bl in 5 min
 45-ISIP-no bl
 30-FFP-strg bl in 10 min
 45-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1968.17	103.19	Initial Hydro-static
3	42.96	103.49	Open To Flow (1)
32	148.16	112.01	Shut-In(1)
78	1096.81	115.94	End Shut-In(1)
79	158.90	115.63	Open To Flow (2)
108	246.52	117.06	Shut-In(2)
156	1015.39	117.96	End Shut-In(2)
159	1958.92	116.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
610.00	Water	8.56

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

14-6s-24w Graham, KS
Augustine #14-1
 Job Ticket: 48597 **DST#: 4**
 Test Start: 2012.11.15 @ 12:25:11

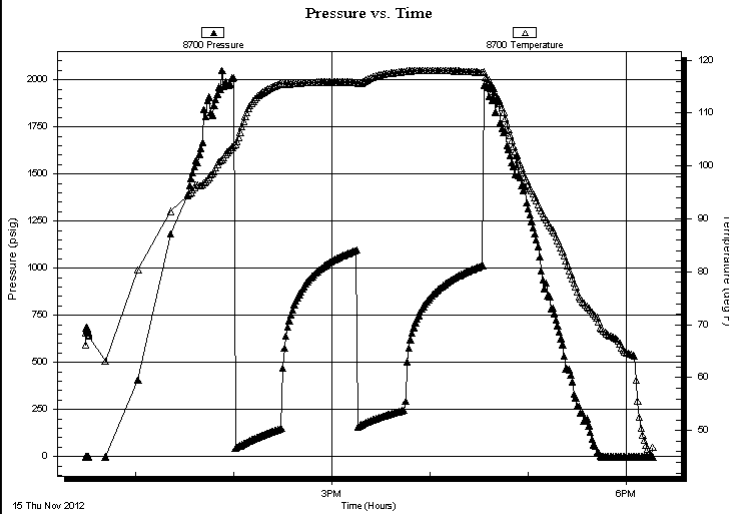
GENERAL INFORMATION:

Formation: **LKC K-L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:00:36
 Time Test Ended: 18:16:35
Interval: 3846.00 ft (KB) To 3925.00 ft (KB) (TVD)
 Total Depth: 3925.00 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: 2458.00 ft (KB)
 2453.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8700 Outside

Press @ Run Depth: psig @ 3850.00 ft (KB)
 Start Date: 2012.11.15 End Date: 2012.11.15
 Start Time: 12:29:41 End Time: 18:16:05
 Capacity: 8000.00 psig
 Last Calib.: 2012.11.15
 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IFP-strg bl in 5 min
 45-ISIP-no bl
 30-FFP-strg bl in 10 min
 45-FSIP-no bl



PRESSURE SUMMARY

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

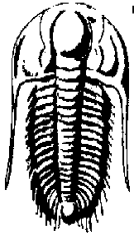
Recovery

Length (ft)	Description	Volume (bbl)
610.00	Water	8.56

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 Operatting Inc
 PO Box 86
 Plainville KS 67663-0086
 ATTN: Charles Ramsey

14-6s-24w Graham,KS
Augustine #14-1
 Job Ticket: 48597 **DST#: 4**
 Test Start: 2012.11.15 @ 12:25:11

Tool Information

Drill Pipe:	Length: 3841.00 ft	Diameter: 3.80 inches	Volume: 53.88 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: 53.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3846.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	79.00 ft			
Tool Length:	100.00 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			3826.00	
Shut In Tool	5.00			3831.00	
Hydraulic tool	5.00			3836.00	
Packer	5.00			3841.00	21.00 Bottom Of Top Packer
Packer	5.00			3846.00	
Stubb	1.00			3847.00	
Perforations	3.00			3850.00	
Recorder	0.00	8369	Inside	3850.00	
Recorder	0.00	8700	Outside	3850.00	
Blank Spacing	62.00			3912.00	
Perforations	10.00			3922.00	
Bullnose	3.00			3925.00	79.00 Bottom Packers & Anchor

Total Tool Length: 100.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

14-6s-24w Graham,KS
Augustine #14-1
 Job Ticket: 48597 **DST#: 4**
 Test Start: 2012.11.15 @ 12:25:11

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:	68000 ppm
Viscosity: 70.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

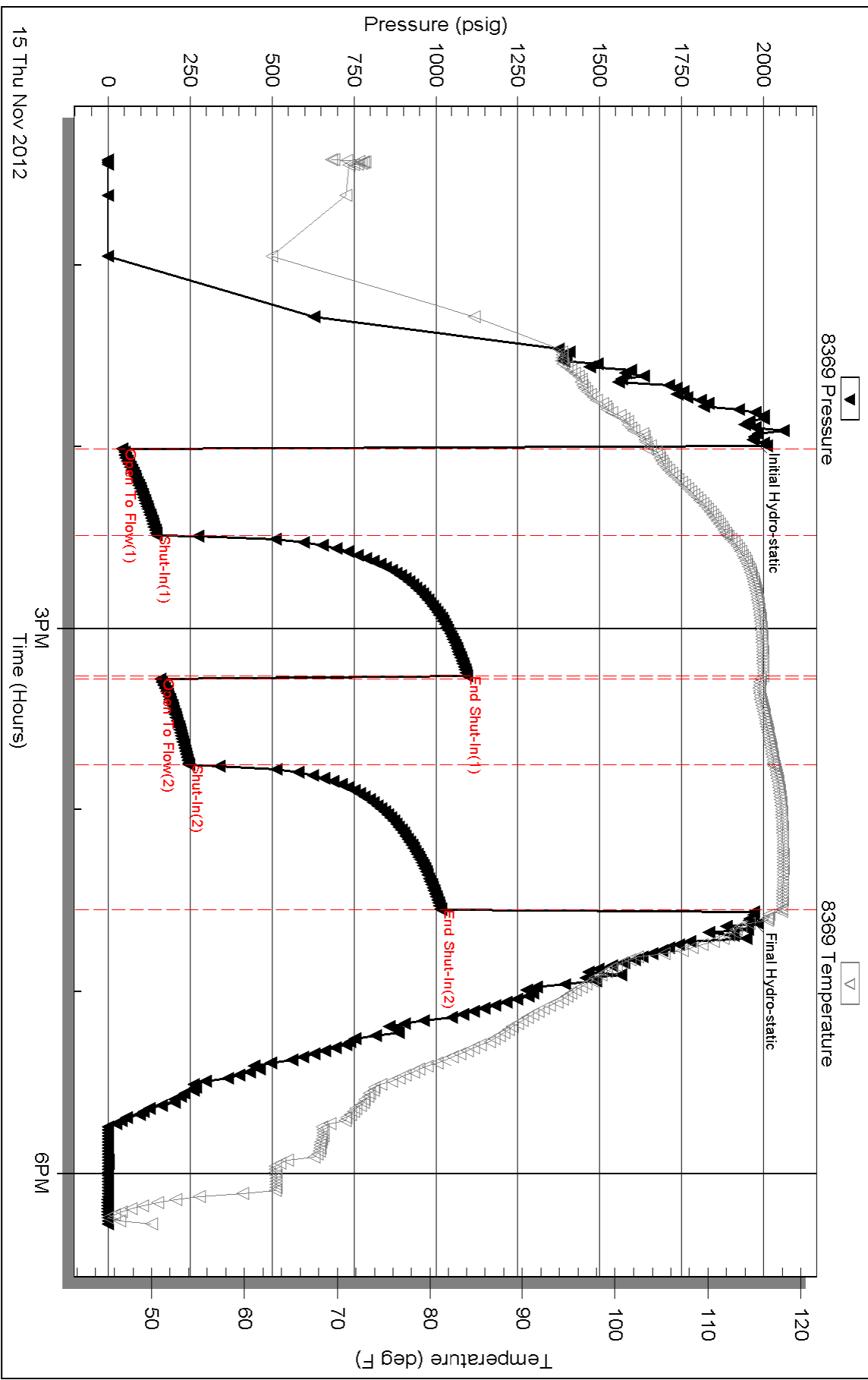
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
610.00	Water	8.557

Total Length: 610.00 ft Total Volume: 8.557 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW .12@65F

Pressure vs. Time

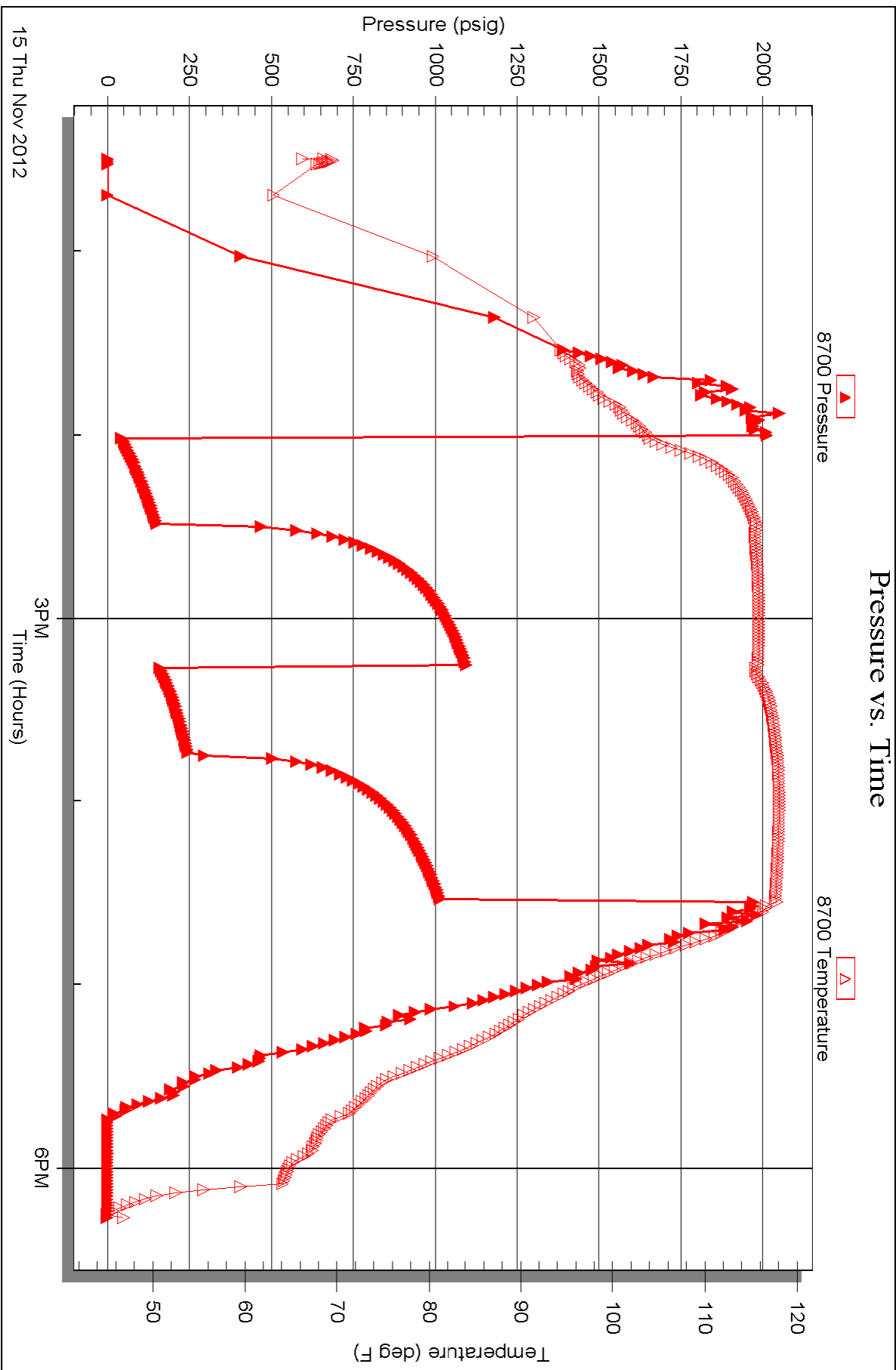


Serial #: 8700

Outside H&C Oil Operating Inc

Augustine #14-1

DST Test Number: 4





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48594

Well Name & No. Augustine #14-1 Test No. 1 Date 11-13-12
 Company H+C Oil Operating Inc Elevation 2458 KB 2453 GL
 Address PO Box 86 Plainville, Ks 67663-0086
 Co. Rep / Geo. MARC Downing Rig Am Eagle rig 3
 Location: Sec. 14 Twp. 6^s Rge. 24^w Co. Graham State Ks

Interval Tested 3709-3734 Zone Tested LKC "C"
 Anchor Length 25 Drill Pipe Run 3713 Mud Wt. 9.2
 Top Packer Depth 3704 Drill Collars Run - Vis 62
 Bottom Packer Depth 3709 Wt. Pipe Run - WL 8
 Total Depth 3734 Chlorides 1000 ppm System LCM 2#
 Blow Description IFP - WEAK Blow thru-out 1/4" To 2" Blow
ISIP - NO Blow
FFP - WEAK Blow thru-out 1/4" To 1 1/2" Blow
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>MW</u>		<u>80</u>	<u>20</u>	
<u>120</u>	<u>WATER</u>				

Rec Total 140 BHT 111 Gravity - API RW .17 @ 65 ° F Chlorides 46000 ppm

(A) Initial Hydrostatic 1898 Test 1150 T-On Location 0015
 (B) First Initial Flow 14 Jars - T-Started 0310
 (C) First Final Flow 47 Safety Joint - T-Open 0600
 (D) Initial Shut-In 1238 Circ Sub - T-Pulled 0900
 (E) Second Initial Flow 49 Hourly Standby - T-Out 1038
 (F) Second Final Flow 81 Mileage 156 241.80 Comments -
 (G) Final Shut-In 1218 Sampler -
 (H) Final Hydrostatic 1892 Straddle - Ruined Shale Packer -
 Shale Packer - Ruined Packer -
 Extra Packer - Extra Copies -
 Initial Open 45 Extra Recorder - Sub Total 0
 Initial Shut-In 45 Day Standby - Total 1391.80
 Final Flow 45 Accessibility - MP/DST Disc't -
 Final Shut-In 45 Sub Total 1391.80

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48595

Well Name & No. Augustine #14-1 Test No. 2 Date 11-13-12
 Company H+C Oil Operating Inc Elevation 2458 KB 2453 GL
 Address Po Box 86 Plainville, Ks 67663-0086
 Co. Rep / Geo. MARC Downing Rig Am Eagle rig 3
 Location: Sec. 14 Twp. 6^s Rge. 24^w Co. GRAHAM State Ks

Interval Tested 3745-3761 Zone Tested LKC "E"
 Anchor Length 16 Drill Pipe Run 3746 Mud Wt. 9
 Top Packer Depth 3740 Drill Collars Run - Vis 59
 Bottom Packer Depth 3745 Wt. Pipe Run - WL 8.8
 Total Depth 3761 Chlorides 2000 ppm System LCM 3#
 Blow Description IFP - Very Weak Blow thru-out 1/8" to surface Blow
ISIP - NO Blow
FFP - Very Weak surface Blow
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>				

Rec Total 5 BHT 104 Gravity - API RW - @ - F Chlorides - ppm

(A) Initial Hydrostatic 1866 Test 1150 T-On Location 1845
 (B) First Initial Flow 10 Jars - T-Started 1935
 (C) First Final Flow 13 Safety Joint - T-Open 2135
 (D) Initial Shut-In 1171 Circ Sub - T-Pulled 2335
 (E) Second Initial Flow 13 Hourly Standby - T-Out 0/30
 (F) Second Final Flow 16 Mileage 241.80 Comments -
 (G) Final Shut-In 1176 Sampler -
 (H) Final Hydrostatic 1862 Straddle - Ruined Shale Packer -
 Shale Packer - Ruined Packer -
 Extra Packer - Extra Copies -
 Initial Open 30 Extra Recorder - Sub Total 0
 Initial Shut-In 30 Day Standby - Total 1391.80
 Final Flow 30 Accessibility - MP/DST Disc't -
 Final Shut-In 30 Sub Total 1391.80

Approved By _____ Our Representative Ray Schwager Thank 409

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48596

Well Name & No. Augustine #14-1 Test No. 3 Date 11-14-12
 Company H+C O.I. Operating Inc Elevation 2458 KB 2453 GL
 Address PO Box 86 Plainville, Ks 67663-0086
 Co. Rep / Geo. MARC Downing Rig Am Eagle rig 3
 Location: Sec. 14 Twp. 6^s Rge. 24^w Co. GRAHAM State Ks

Interval Tested 3789-3848 Zone Tested LKC H-J
 Anchor Length 59 Drill Pipe Run 3779 Mud Wt. 9.6
 Top Packer Depth 3784 Drill Collars Run - Vis 53
 Bottom Packer Depth 3789 Wt. Pipe Run - WL 8
 Total Depth 3848 Chlorides 2000 ppm System LCM 3#
 Blow Description IFP - WEAK Blow thru-out 1/4" To 3/4" Blow
ISIP - NO Blow
FFP - NO Blow
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Mud w/show foam</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 2 BHT 103 Gravity - API RW - @ - °F Chlorides - ppm

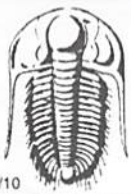
(A) Initial Hydrostatic 1893 Test 1150 T-On Location 1530
 (B) First Initial Flow 14 Jars - T-Started 1555
 (C) First Final Flow 16 Safety Joint - T-Open 1805
 (D) Initial Shut-In 33 Circ Sub - T-Pulled 2005
 (E) Second Initial Flow 15 Hourly Standby - T-Out 2138
 (F) Second Final Flow 15 Mileage 241.80 Comments -
 (G) Final Shut-In 31 Sampler -
 (H) Final Hydrostatic 1886 Straddle - Ruined Shale Packer -
 Shale Packer - Ruined Packer -
 Extra Packer - Extra Copies -
 Initial Open 30 Extra Recorder - Sub Total 0
 Initial Shut-In 30 Day Standby - Total 1391.80
 Final Flow 30 Accessibility - MP/DST Disc't -
 Final Shut-In 30 Sub Total 1391.80

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48597

Well Name & No. Augustine #14-1 Test No. 4 Date 11-15-12
 Company H+C Oil Operating Inc Elevation 2458 KB 2453 GL
 Address PO Box 86 Plainville, Ks 67663-0086
 Co. Rep / Geo. MARC Downing Rig Am Eagle 1193
 Location: Sec. 14 Twp. 6^s Rge. 24^w Co. Graham State Ks

Interval Tested 3846-3925 Zone Tested LKC K-L
 Anchor Length 79 Drill Pipe Run 3841 Mud Wt. 9.3
 Top Packer Depth 3841 Drill Collars Run - Vis 70
 Bottom Packer Depth 3846 Wt. Pipe Run - WL 8
 Total Depth 3925 Chlorides 2000 ppm System LCM 3#
 Blow Description TFP - STRONG BLOW IN 5 MIN
ISIP - NO BLOW
FFP - STRONG BLOW IN 10 MIN
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>610</u>	<u>WATER</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 610 BHT 118 Gravity - API RW .12 @ 65 ° F Chlorides 65000 ppm

(A) Initial Hydrostatic 1968 Test 1150 T-On Location 1200
 (B) First Initial Flow 42 Jars - T-Started 1225
 (C) First Final Flow 148 Safety Joint - T-Open 1400
 (D) Initial Shut-In 1096 Circ Sub - T-Pulled 1630
 (E) Second Initial Flow 158 Hourly Standby - T-Out 1816
 (F) Second Final Flow 246 Mileage 241.80 Comments -
 (G) Final Shut-In 1015 Sampler -
 (H) Final Hydrostatic 1958 Straddle - Ruined Shale Packer -
 Shale Packer - Ruined Packer -
 Extra Packer - Extra Copies -
 Extra Recorder - Sub Total 0
 Day Standby - Total 1391.80
 Accessibility - MP/DST Disc't -
 Sub Total 1391.80

Approved By _____ Our Representative RAY Schwager 904
 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

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

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

No. 6149

Date	11-9-12	Sec.	10	Twp.	6	Range	24	County	Crawham	State	KS	On Location		Finish	3:45AM
Lease	Augustine														
Contractor	American Eagle #3														
Type Job	Surface														
Hole Size	12 1/4														
Csg.	8 5/8														
Tbg. Size															
Tool															
Cement Left in Csg.	15'														
Meas Line	Displace 17BC														
EQUIPMENT															
Pumptrk	No.	9 Cementer ^{Easy}													
Bulktrk	No.	3 Driver ^{Easy}													
Bulktrk	No.	13 Driver ^{Heath}													
JOB SERVICES & REMARKS															
Remarks:															
Rat Hole															
Mouse Hole															
Centralizers															
Baskets															
D/V or Port Collar															
8 5/8 on bottom. Est. Circulation.															
Mix 170s x Dispac.															
Cement Circulated!															
FLOAT EQUIPMENT															
Guide Shoe															
Centralizer															
Baskets															
AFU Inserts															
Float Shoe															
Latch Down															
Pumptrk Charge	Surface														
Mileage	51														
														Tax	
														Discount	
														Total Charge	

Signature: *Quachuan...*

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. 6097

Date	11.15 th	Sec.	14	Twp.	6	Range	24	County	Greene	State	KS	On Location	10. p.m	Finish	1.00 AM
Lease	HUGUSTINE														
Contractor	AM Eagle 3														
Type Job	Plugs														
Hole Size	T.D. 3931														
Csg.	Depth 2140														
Tbg. Size	Depth														
Tool	Depth														
Cement Left in Csg.	Shoe Joint														
Meas Line	Displace														
EQUIPMENT															
Pumptrk	No.	Cementer													
	5	Helper	Mick												
Bulktrk	No.	Driver	Brett												
	13	Driver													
Bulktrk	No.	Driver	Bennie												
	24	Driver	M												
JOB SERVICES & REMARKS															
Remarks:															
Rat Hole	30 SWS														
Mouse Hole															
Centralizers															
Baskets															
D/V or Port Collar															
1	2140	25	SWS												
2	1390	100	SWS												
3	330	40	SWS												
4	40	10	SWS												
				FLOAT EQUIPMENT											
				Guide Shoe											
				Centralizer											
				Baskets											
				AFU Inserts											
				Float Shoe											
				Latch Down											
				Wood Shoes											
				Pumptrk Charge											
				Mileage											
				51 plng											
				Tax											
				Discount											
				Total Charge											

The above was done to satisfaction and supervision of owner agent or contractor.
Cement Amount Ordered 205 gals 4% @ 147 gal

X Signature *Donald L. ...*