



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1092332
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: _____

1092332

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> <i>(Submit ACO-4)</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	Gosselin 24-1
Doc ID	1092332

Tops

Name	Top	Datum
Anhydrite	1683	+469
Topeka	3132	-980
Heebner	3345	-1193
Toronto	3367	-1215
Lansing	3384	-1232
BKC	3590	-1438
Marmaton	3643	-1491
Arbuckle	3797	-1645

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. 829

Date	8-18-12	24	8	22	24-1	GRAHAM	KANSAS	On Location	10:45 AM	
Lease	GOSSELIN		Well No.		BOQUE-BTO PIERRE-WIS330sl E INIS					
Contractor	AMERICAN EAGLE #3									
Type Job	P.T.A									
Hole Size	7 7/8"									
Csg.	T.D. 3250'									
Tbg. Size	4 1/2"									
Tool	Depth									
Cement Left in Csg.	Shoe Joint									
Meas Line	Displace									
EQUIPMENT										
Pumptrk #	5	No.	Cementer	Common 138						
			Helper	Brett						
Bulktrk #	14	No.	Driver	Poz. Mix 92						
			Driver	LONNIE						
Bulktrk #	14	No.	Driver	Gel. 8						
			Driver	Calcium						
JOB SERVICES & REMARKS										
Remarks:	Hulls									
Rat Hole	Salt									
Mouse Hole	Flowseal 60ft									
Centralizers	Kol-Seal									
Baskets	Mud CLR 48									
D/V or Port Collar	CFL-117 or CD110 CAF 38									
PLUGS	Sand									
1st @ 3780'	Handling 238									
2nd @ 1697'	Mileage									
3rd @ 972'	FLOAT EQUIPMENT									
4th @ 280'	Guide Shoe									
5th @ 40'	Centralizer									
RAT HOLE	Baskets									
	AFU Inserts									
	Float Shoe									
	Latch Down									
	Pumptrk Charge									
	Mileage 46									
	Tax									
	Discount									
	Total Charge									

THANK YOU!
Signature: *Dwight L. Fisher*

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. 778

Date	8/11/22	Sec.	24	Twp.	8	Range	23	County	Gothenburg	State	KS	On Location		Finish	2:00 AM
Lease	GOSSELTO	Well No.	24-1			Location Boyer P.O. Box 330 1/2 NE into									
Contractor	American Frack #3														
Type Job	Surface														
Hole Size	17 1/4														
Csg.	8 5/8														
Tbg. Size															
Tool															
Cement Left in Csg.	15'														
Meas Line	Displace 13 1/2 B														
EQUIPMENT															
Pumptrk	No.	Cementer													
	5	Helper	Cory												
Bulktrk	No.	Driver													
	14	Driver	Cory												
		Driver													
		Driver													
JOB SERVICES & REMARKS															
Remarks:															
Rat Hole															
Mouse Hole															
Centralizers															
Baskets															
DV or Port Collar															
	8 5/8 on bottom. Est. Circulation.														
	Mix Needs														
	Cement Cracked.														
	FLOAT EQUIPMENT														
	Guide Shoe														
	Centralizer														
	Baskets														
	AFU Inserts														
	Float Shoe														
	Latch Down														
	Pumptrk Charge 500.00														
	Mileage 46														
	Tax														
	Discount														
	Total Charge														

X Signature Charles Ramsey

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

Sam Brownback, Governor

August 30, 2012

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

Re: ACO1
API 15-065-23843-00-00
Gosselin 24-1
SW/4 Sec.24-08S-22W
Graham County, Kansas

Dear Production Department:

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

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

Respectfully,
Charles Ramsay



DRILL STEM TEST REPORT

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

PO Box 86
Plainville, KS 67663

ATTN: Clayton Erickson

Gosselin #24-1

24-8s-22w Graham,KS

Start Date: 2012.08.14 @ 02:39:15

End Date: 2012.08.14 @ 09:35:45

Job Ticket #: 49479 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.24 @ 13:55:24



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

24-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Gosselin #24-1

Job Ticket: 49479

DST#: 1

ATTN: Clayton Erickson

Test Start: 2012.08.14 @ 02:39:15

GENERAL INFORMATION:

Formation: **LKC "A-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:44:45

Time Test Ended: 09:35:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3377.00 ft (KB) To 3427.00 ft (KB) (TVD)

Reference Elevations: 2152.00 ft (KB)

Total Depth: 3427.00 ft (KB) (TVD)

2147.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 66.62 psig @ 3416.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.14

End Date:

2012.08.14

Last Calib.: 2012.08.15

Start Time: 02:49:15

End Time:

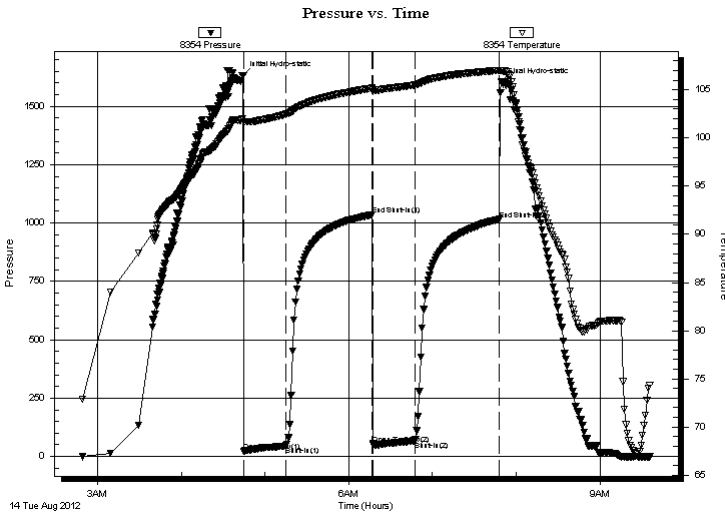
09:35:45

Time On Btm: 2012.08.14 @ 04:44:15

Time Off Btm: 2012.08.14 @ 07:49:15

TEST COMMENT: IF-Weak building blow . Built to 7 inches.
ISI-No Return.
FF-Weak building blow . Built to 7 inches.
FSI-No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1632.12	102.03	Initial Hydro-static
1	23.01	101.73	Open To Flow (1)
31	45.64	102.47	Shut-In(1)
93	1034.55	105.17	End Shut-In(1)
93	54.41	104.83	Open To Flow (2)
123	66.62	105.50	Shut-In(2)
184	1015.07	107.02	End Shut-In(2)
185	1603.36	106.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	5%Oil/30%Water/65%Mud	0.84
25.00	15%Oil/85%Mud	0.35
20.00	20%Gas/80%Oil	0.28

Gas Rates

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



TRILLOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

24-8s-22w Graham, KS

PO Box 86
Plainville, KS 67663

Gosselin #24-1

ATTN: Clayton Erickson

Job Ticket: 49479

DST#: 1

Test Start: 2012.08.14 @ 02:39:15

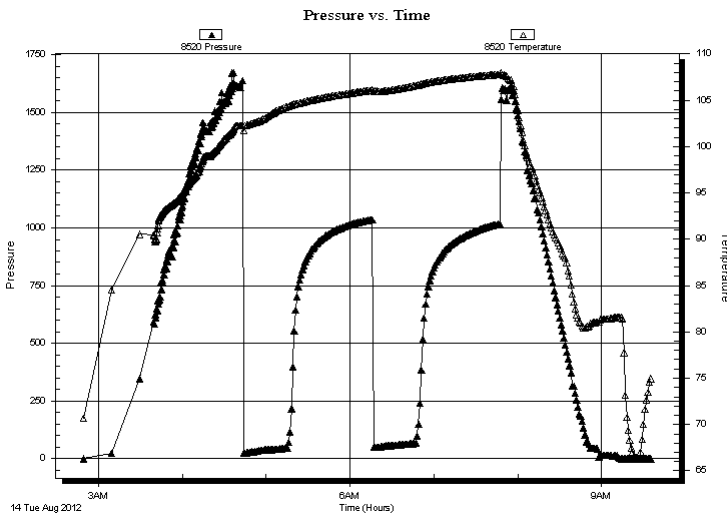
GENERAL INFORMATION:

Formation:	LKC "A-C"		
Deviated:	No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened:	04:44:45		Tester: Dustin Rash
Time Test Ended:	09:35:45		Unit No: 38
Interval:	3377.00 ft (KB) To 3427.00 ft (KB) (TVD)	Reference Elevations:	2152.00 ft (KB) 2147.00 ft (CF)
Total Depth:	3427.00 ft (KB) (TVD)	KB to GR/CF:	5.00 ft
Hole Diameter:	7.88 inches	Hole Condition:	Fair

Serial #: **8520** Outside

Press @ Run Depth:	psig @	3416.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2012.08.14	End Date:	2012.08.14	Last Calib.:	2012.08.15
Start Time:	02:49:30	End Time:	09:35:30	Time On Btm:	
			Time Off Btm:		

TEST COMMENT: IF-Weak building blow . Built to 7 inches.
ISI-No Return.
FF-Weak building blow . Built to 7 inches.
FSI-No Return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	5%Oil/30%Water/65%Mud	0.84
25.00	15%Oil/85%Mud	0.35
20.00	20%Gas/80%Oil	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating, Inc.

24-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Gosselin #24-1

Job Ticket: 49479

DST#: 1

ATTN: Clayton Erickson

Test Start: 2012.08.14 @ 02:39:15

Tool Information

Drill Pipe:	Length: 3368.00 ft	Diameter: 3.80 inches	Volume: 47.24 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 47.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3377.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3350.00	
Shut In Tool	5.00			3355.00	
Hydraulic tool	5.00			3360.00	
Jars	5.00			3365.00	
Safety Joint	3.00			3368.00	
Packer	5.00			3373.00	28.00 Bottom Of Top Packer
Packer	4.00			3377.00	
Stubb	1.00			3378.00	
Perforations	5.00			3383.00	
Change Over Sub	1.00			3384.00	
Drill Pipe	31.00			3415.00	
Change Over Sub	1.00			3416.00	
Recorder	0.00	8354	Inside	3416.00	
Recorder	0.00	8520	Outside	3416.00	
Perforations	8.00			3424.00	
Bullnose	3.00			3427.00	50.00 Bottom Packers & Anchor
Total Tool Length:	78.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc.

24-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Gosselin #24-1

Job Ticket: 49479

DST#: 1

ATTN: Clayton Erickson

Test Start: 2012.08.14 @ 02:39:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

22000 ppm

Viscosity: 82.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: 0.28 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	5%Oil/30%Water/65%Mud	0.842
25.00	15%Oil/85%Mud	0.351
20.00	20%Gas/80%Oil	0.281

Total Length: 105.00 ft

Total Volume: 1.474 bbl

Num Fluid Samples: 0

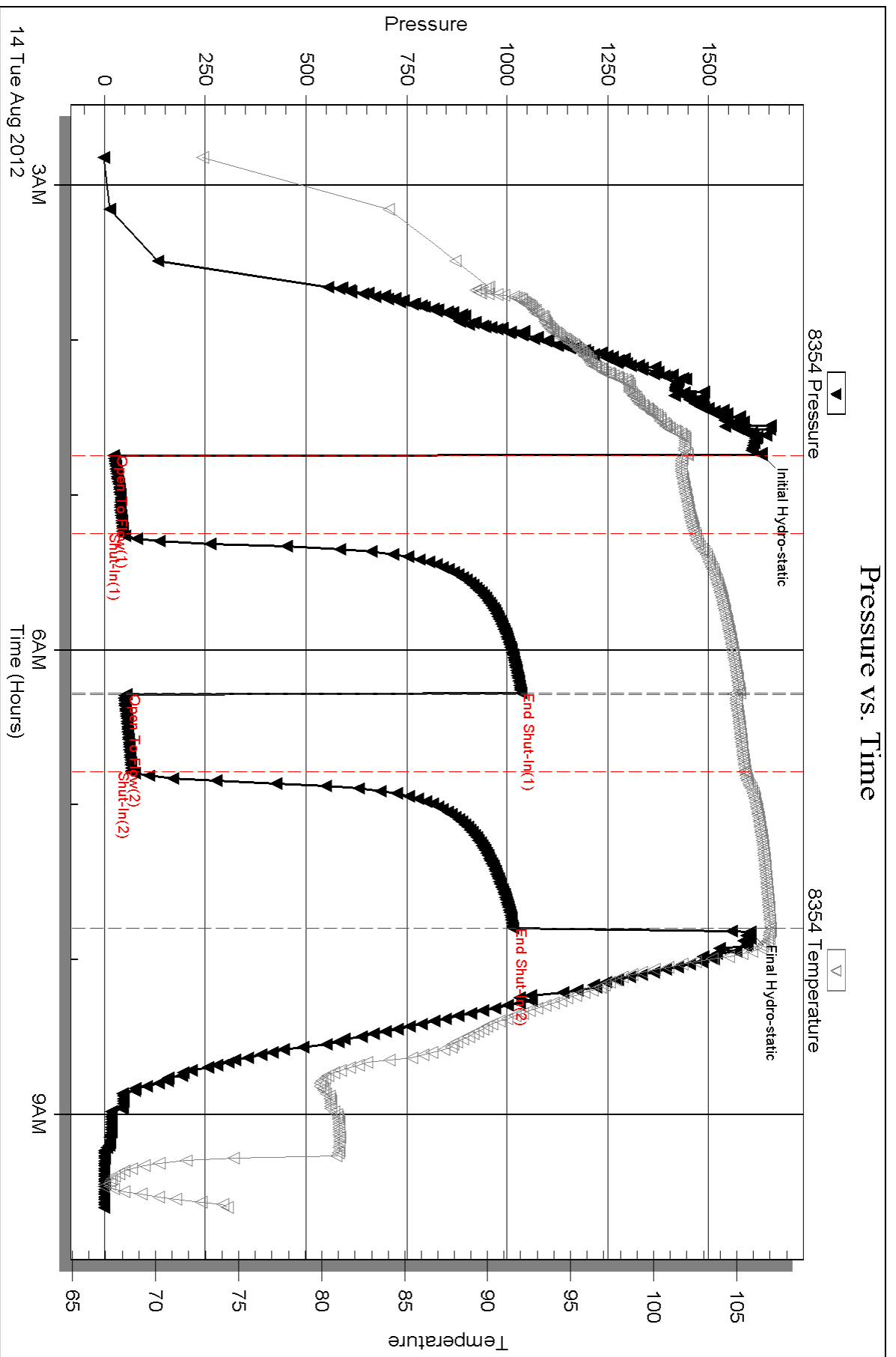
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

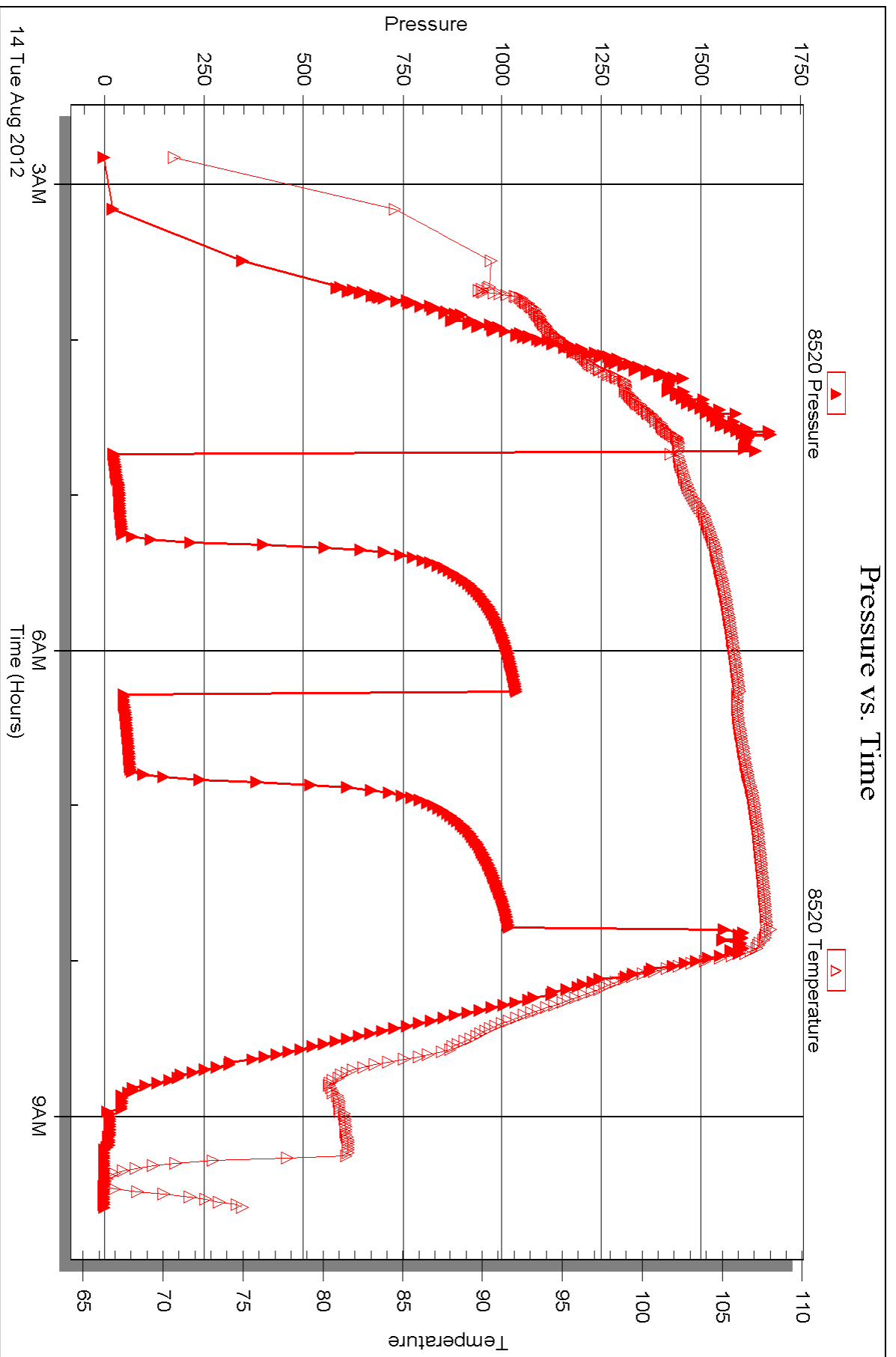


Serial #: 8520

Outside H&C Oil Operating, Inc.

Gosselin #24-1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 49479

Printed: 2012.08.24 @ 13:55:29



DRILL STEM TEST REPORT

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

PO Box 86
Plainville, KS 67663

ATTN: Clayton Erickson

Gosselin #24-1

24-8s-22w Graham,KS

Start Date: 2012.08.16 @ 01:02:30

End Date: 2012.08.16 @ 08:23:00

Job Ticket #: 49480 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.24 @ 13:54:14



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

24-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Gosselin #24-1

Job Ticket: 49480

DST#: 2

ATTN: Clayton Erickson

Test Start: 2012.08.16 @ 01:02:30

GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:00:00

Time Test Ended: 08:23:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3495.00 ft (KB) To 3557.00 ft (KB) (TVD)

Reference Elevations: 2152.00 ft (KB)

Total Depth: 3557.00 ft (KB) (TVD)

2147.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8354

Inside

Press @ RunDepth: 23.27 psig @ 3534.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.16

End Date: 2012.08.16

Last Calib.: 2012.08.16

Start Time: 01:12:30

End Time: 08:23:00

Time On Btm: 2012.08.16 @ 03:59:30

Time Off Btm: 2012.08.16 @ 06:40:30

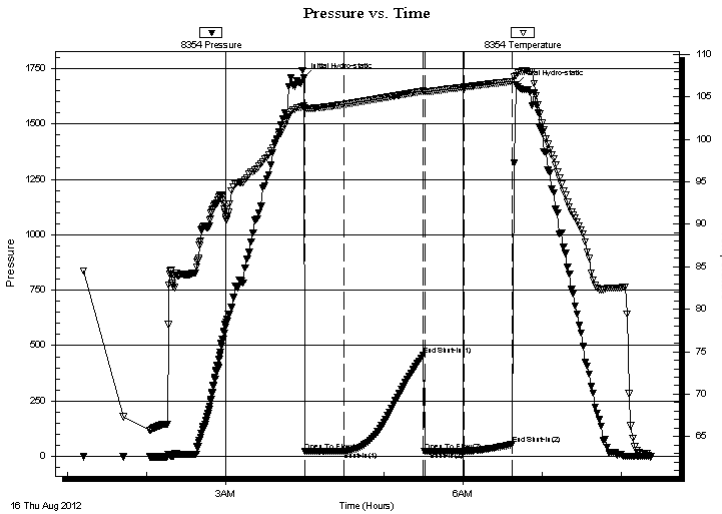
TEST COMMENT: IF-Weak surface blow . Died @ 18 minutes 30 seconds.

ISI-No Return.

FF-No Blow .

FSI-No Return.

PRESSURE SUMMARY



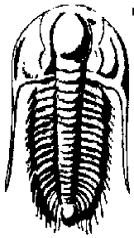
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1706.63	103.96	Initial Hydro-static
1	22.17	103.65	Open To Flow (1)
31	22.78	104.10	Shut-In(1)
91	456.16	105.65	End Shut-In(1)
92	23.01	105.58	Open To Flow (2)
122	23.27	106.12	Shut-In(2)
158	55.23	106.81	End Shut-In(2)
161	1677.82	107.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%Mud	0.07

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

24-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Gosselin #24-1

Job Ticket: 49480

DST#: 2

ATTN: Clayton Erickson

Test Start: 2012.08.16 @ 01:02:30

GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:00:00

Time Test Ended: 08:23:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3495.00 ft (KB) To 3557.00 ft (KB) (TVD)

Reference Elevations: 2152.00 ft (KB)

Total Depth: 3557.00 ft (KB) (TVD)

2147.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8520 Outside

Press @ Run Depth: psig @ 3534.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.16

End Date: 2012.08.16

Last Calib.: 2012.08.16

Start Time: 01:12:45

End Time: 08:22:15

Time On Btm:

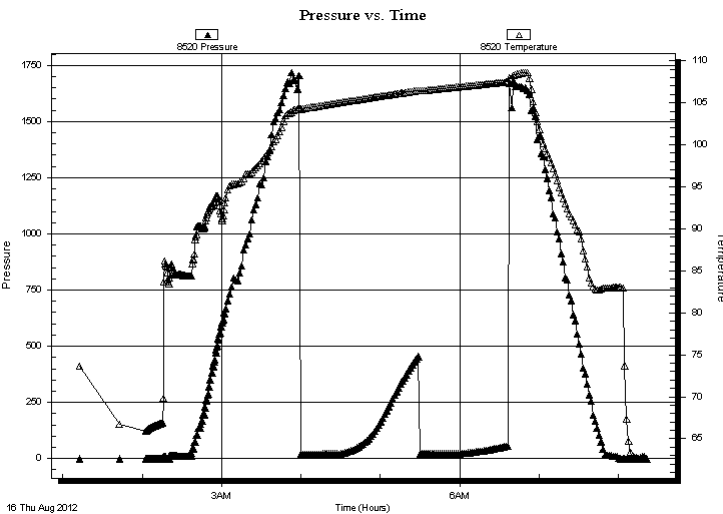
Time Off Btm:

TEST COMMENT: IF-Weak surface blow . Died @ 18 minutes 30 seconds.

ISI-No Return.

FF-No Blow .

FSI-No Return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%Mud	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating, Inc.

24-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Gosselin #24-1

Job Ticket: 49480

DST#: 2

ATTN: Clayton Erickson

Test Start: 2012.08.16 @ 01:02:30

Tool Information

Drill Pipe:	Length: 3493.00 ft	Diameter: 3.80 inches	Volume: 49.00 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 15000.00 lb
			<u>Total Volume: 49.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3495.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	90.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3468.00	
Shut In Tool	5.00			3473.00	
Hydraulic tool	5.00			3478.00	
Jars	5.00			3483.00	
Safety Joint	3.00			3486.00	
Packer	5.00			3491.00	28.00 Bottom Of Top Packer
Packer	4.00			3495.00	
Stubb	1.00			3496.00	
Perforations	5.00			3501.00	
Change Over Sub	1.00			3502.00	
Drill Pipe	31.00			3533.00	
Change Over Sub	1.00			3534.00	
Recorder	0.00	8354	Inside	3534.00	
Recorder	0.00	8520	Outside	3534.00	
Perforations	20.00			3554.00	
Bullnose	3.00			3557.00	62.00 Bottom Packers & Anchor
Total Tool Length:	90.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc.

24-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Gosselin #24-1

Job Ticket: 49480

DST#: 2

ATTN: Clayton Erickson

Test Start: 2012.08.16 @ 01:02:30

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100%Mud	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

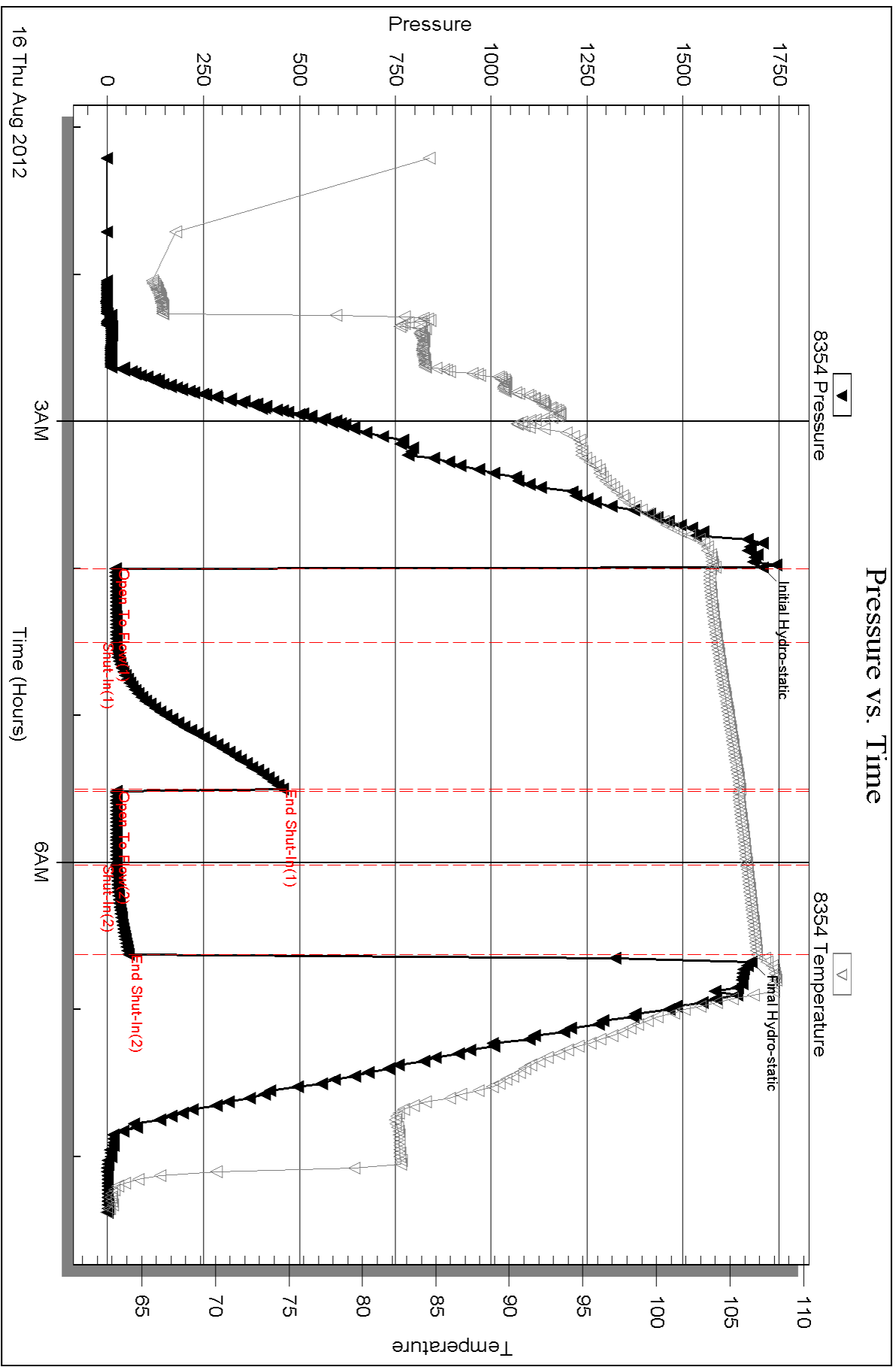
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

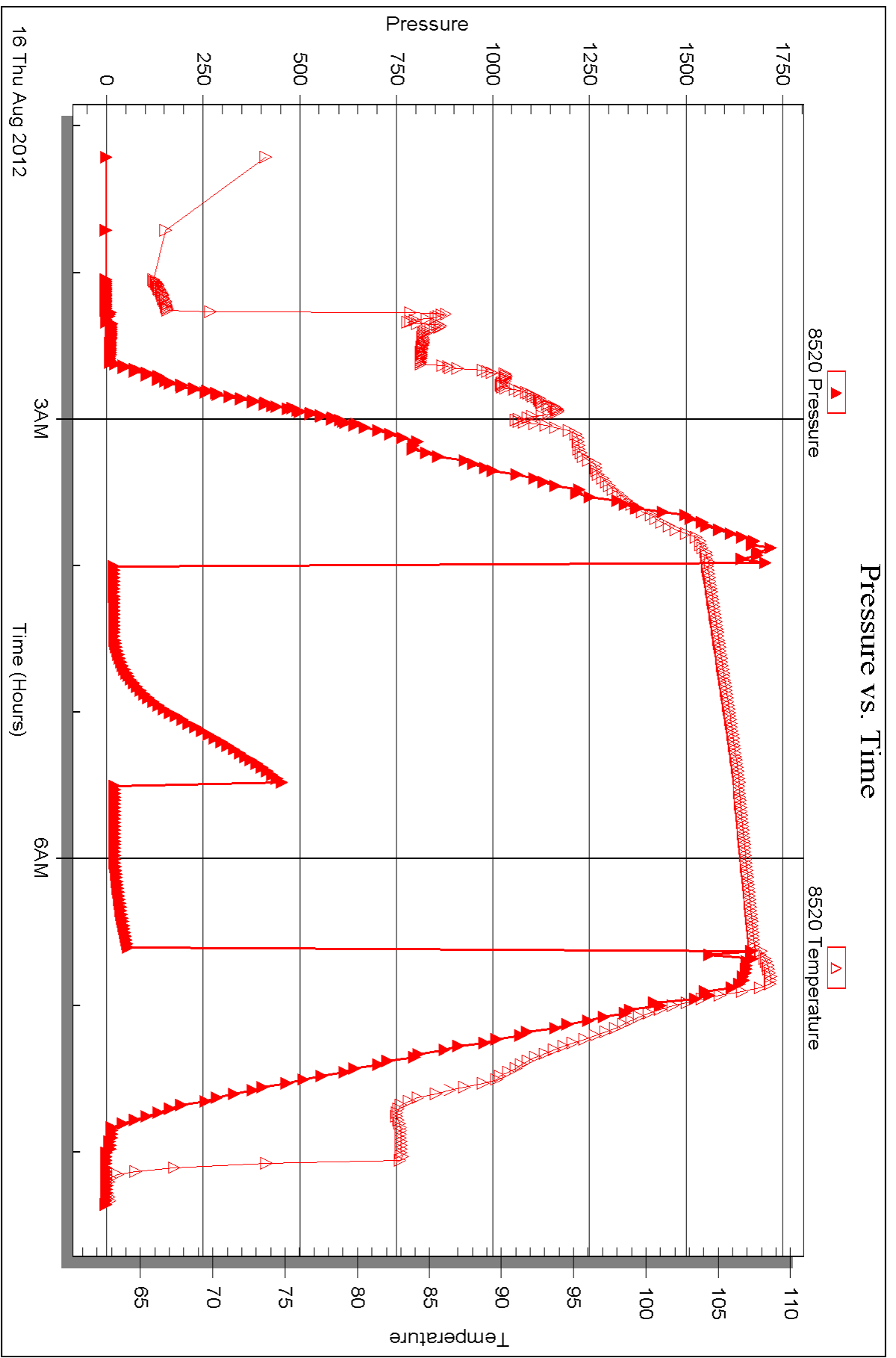


Serial #: 8520

Outside H&C Oil Operating, Inc.

Gosselin #24-1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 49480

Printed: 2012.08.24 @ 13:54:18



DRILL STEM TEST REPORT

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

PO Box 86
Plainville, KS 67663

ATTN: Clayton Erickson

Gosselin #24-1

24-8s-22w Graham,KS

Start Date: 2012.08.16 @ 17:23:30

End Date: 2012.08.17 @ 00:59:00

Job Ticket #: 49481 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.24 @ 13:53:12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

24-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Gosselin #24-1

Job Ticket: 49481

DST#: 3

ATTN: Clayton Erickson

Test Start: 2012.08.16 @ 17:23:30

GENERAL INFORMATION:

Formation: **LKC "K&L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:13:00

Time Test Ended: 00:59:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3552.00 ft (KB) To 3595.00 ft (KB) (TVD)

Reference Elevations: 2152.00 ft (KB)

Total Depth: 3595.00 ft (KB) (TVD)

2147.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8354 Inside

Press @ Run Depth: 31.18 psig @ 3554.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.16

End Date:

2012.08.17

Last Calib.:

2012.08.17

Start Time: 17:33:30

End Time:

00:59:00

Time On Btm:

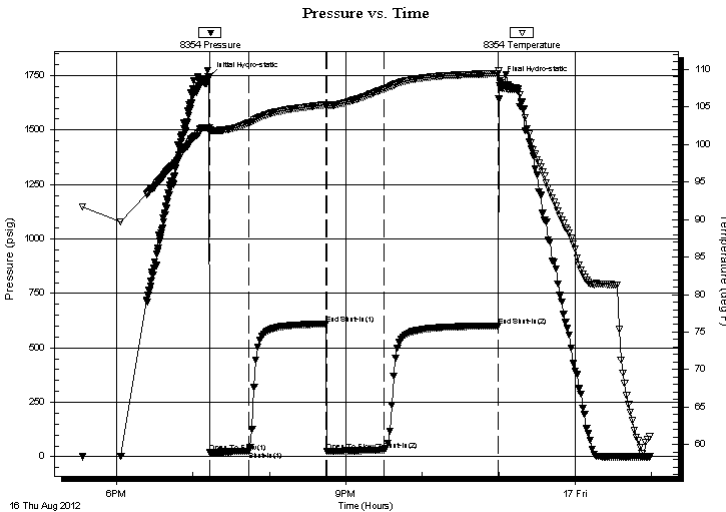
2012.08.16 @ 19:12:50

Time Off Btm:

2012.08.16 @ 23:01:00

TEST COMMENT: IF-Weak surface blow throughout.
ISI-No Return.
FF-Weak surface blow @ 21 minutes.
FSI-No Return.

PRESSURE SUMMARY



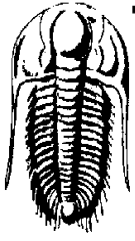
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1746.76	102.23	Initial Hydro-static
1	20.75	101.64	Open To Flow (1)
32	25.49	102.86	Shut-In(1)
92	609.42	105.29	End Shut-In(1)
93	25.75	105.02	Open To Flow (2)
138	31.18	107.37	Shut-In(2)
227	601.00	109.44	End Shut-In(2)
229	1726.92	107.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100%Mud	0.14
10.00	5%Oil/60%Water/35%Mud	0.14

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

24-8s-22w Graham, KS

PO Box 86
Plainville, KS 67663

Gosselin #24-1

ATTN: Clayton Erickson

Job Ticket: 49481

DST#: 3

Test Start: 2012.08.16 @ 17:23:30

GENERAL INFORMATION:

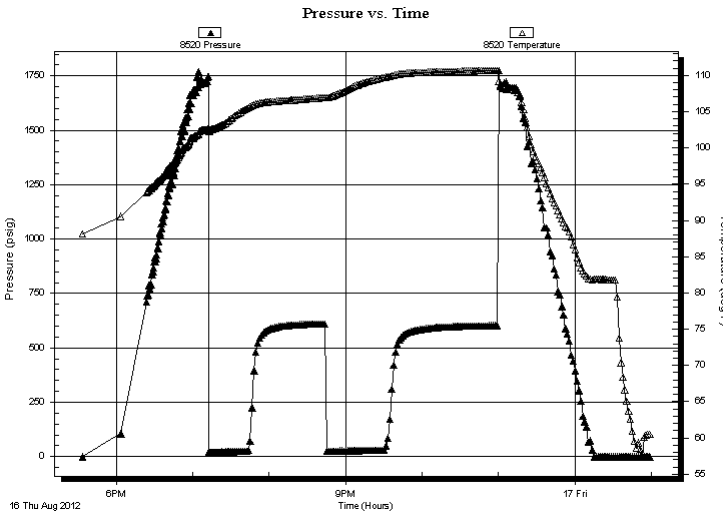
Formation: **LKC "K&L"**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 19:13:00 Tester: Dustin Rash
 Time Test Ended: 00:59:00 Unit No: 38
Interval: 3552.00 ft (KB) To 3595.00 ft (KB) (TVD) Reference Elevations: 2152.00 ft (KB)
 Total Depth: 3595.00 ft (KB) (TVD) 2147.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8520 Outside

Press @ Run Depth: psig @ 3554.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.16 End Date: 2012.08.17 Last Calib.: 2012.08.17
 Start Time: 17:33:45 End Time: 00:58:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-Weak surface blow throughout.
 ISI-No Return.
 FF-Weak surface blow @ 21 minutes.
 FSI-No Return.

PRESSURE SUMMARY



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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
10.00	100%Mud	0.14
10.00	5%Oil/60%Water/35%Mud	0.14

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating, Inc.

24-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Gosselin #24-1

Job Ticket: 49481

DST#: 3

ATTN: Clayton Erickson

Test Start: 2012.08.16 @ 17:23:30

Tool Information

Drill Pipe:	Length: 3553.00 ft	Diameter: 3.80 inches	Volume: 49.84 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 10000.00 lb
			<u>Total Volume: 49.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3552.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	71.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3525.00	
Shut In Tool	5.00			3530.00	
Hydraulic tool	5.00			3535.00	
Jars	5.00			3540.00	
Safety Joint	3.00			3543.00	
Packer	5.00			3548.00	28.00 Bottom Of Top Packer
Packer	4.00			3552.00	
Stubb	1.00			3553.00	
Perforations	1.00			3554.00	
Recorder	0.00	8354	Inside	3554.00	
Recorder	0.00	8520	Outside	3554.00	
Perforations	38.00			3592.00	
Bullnose	3.00			3595.00	43.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc.

24-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Gosselin #24-1

Job Ticket: 49481

DST#: 3

ATTN: Clayton Erickson

Test Start: 2012.08.16 @ 17:23:30

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:

17000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.47 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	100%Mud	0.140
10.00	5%Oil/60%Water/35%Mud	0.140

Total Length: 20.00 ft Total Volume: 0.280 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

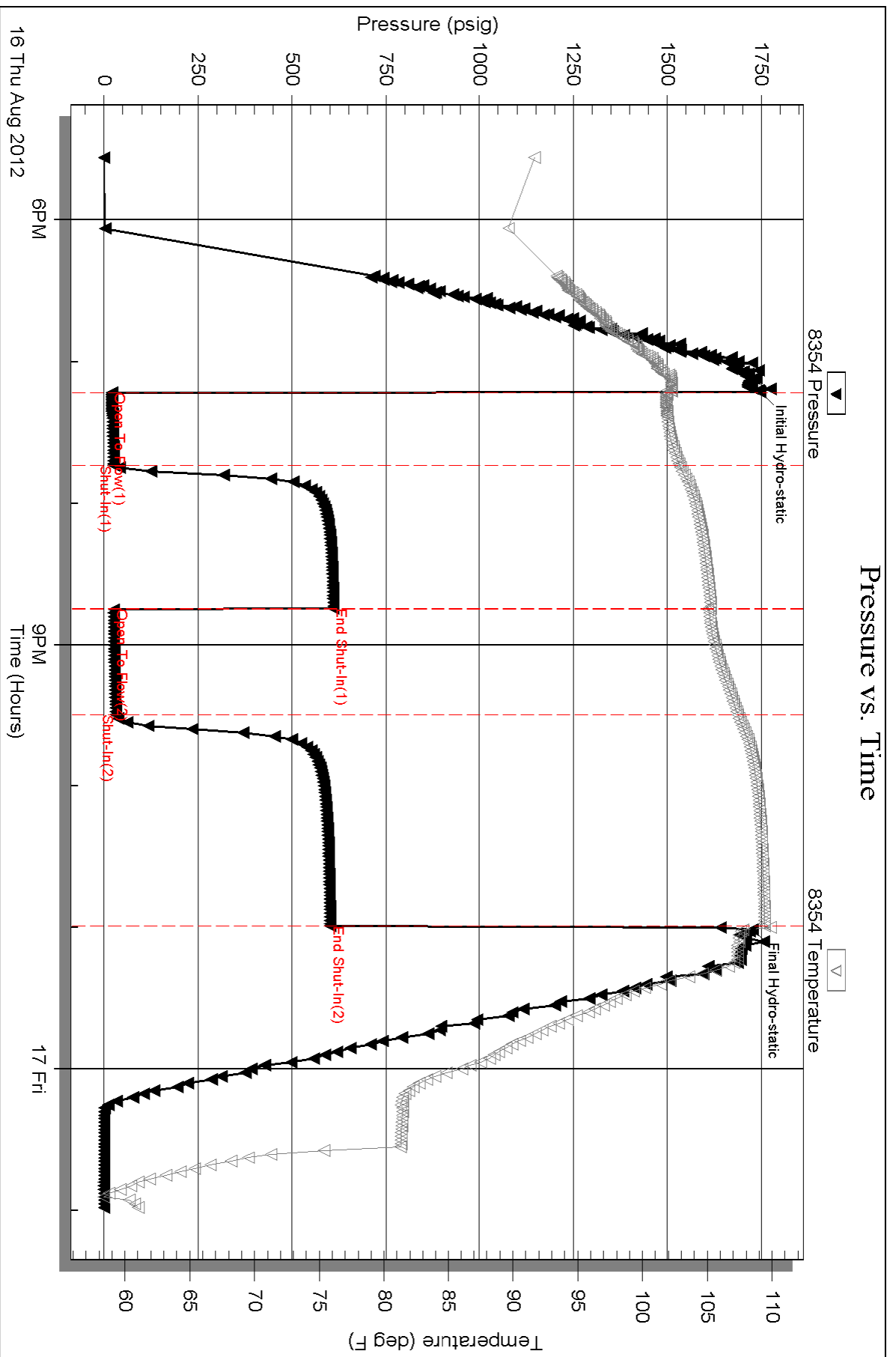
Serial #: 8354

Inside

H&C Oil Operating, Inc.

Gosselin #24-1

DST Test Number: 3



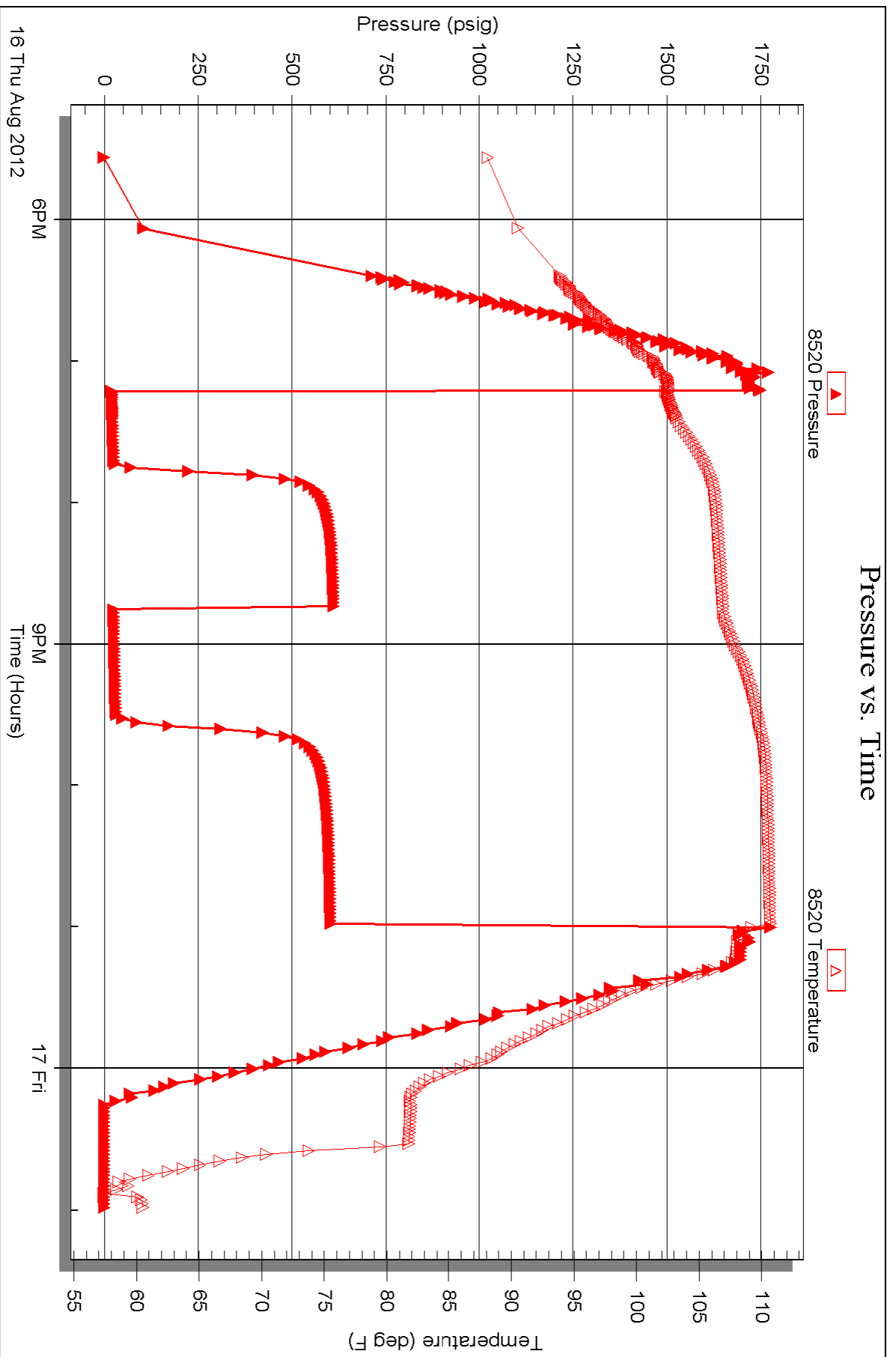
Serial #: 8520

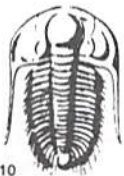
Outside

H&C Oil Operating, Inc.

Gosselin #24-1

DST Test Number: 3





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49479

Well Name & No. Gosselin #24-1 Test No. 2 Date 8-14-12
 Company H+C Oil Operating, Inc Elevation 2152 KB 2147 GL
 Address P.O. Box 86 Plainville, KS 67663
 Co. Rep / Geo. Clayton Erickson Rig American Eagle #3
 Location: Sec. 24 Twp. 8S Rge. 22W Co. Graham State KS

Interval Tested 3377-3427 Zone Tested LKC "A-C"
 Anchor Length 50' Drill Pipe Run 3368 Mud Wt. 8.6
 Top Packer Depth 3372 Drill Collars Run 0 Vis 82
 Bottom Packer Depth 3377 Wt. Pipe Run 0 WL 7.6
 Total Depth 3427 Chlorides 800 ppm System LCM 2#

Blow Description IF- Weak building blow, Built to 7 inches,
ISF- No Return,
FF- Weak building blow, Built to 7 inches,
FSF- No Return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Gassy Oil</u>	<u>20</u>	<u>80</u>		
<u>25</u>	<u>OCM</u>		<u>15</u>		<u>85</u>
<u>60</u>	<u>VSOCWM</u>		<u>5</u>	<u>30</u>	<u>65</u>

Rec Total 105 BHT 107 Gravity 34 API RW 276 @ 74 °F Chlorides 22,000 ppm

(A) Initial Hydrostatic 1632 Test 1150 T-On Location 0130
 (B) First Initial Flow 23 Jars 250 T-Started 0245
 (C) First Final Flow 46 Safety Joint 75 T-Open 0444
 (D) Initial Shut-In 1035 Circ Sub T-Pulled 0750
 (E) Second Initial Flow .54 Hourly Standby T-Out 0930
 (F) Second Final Flow 67 Mileage 60X2 186 Comments Barr-0239
 (G) Final Shut-In 1015 Sampler
 (H) Final Hydrostatic 1603 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1661
 Accessibility MP/DST Disc't
 Sub Total 1661

Approved By _____ Our Representative Rash

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. 49480

4/10

Well Name & No. Cosselin #24-1 Test No. 2 Date 8-16-12
 Company H+C Oil Operating, Inc. Elevation 2152 KB 2147 GL
 Address P.O. Box 86 Plainville, KS 67663
 Co. Rep / Geo. Clayton Erickson Rig American Eagle #3
 Location: Sec. 24 Twp. 8S Rge. 22W Co. Graham State KS

Interval Tested 3495-3557 Zone Tested LKC "H-J"
 Anchor Length 62' Drill Pipe Run 3493 Mud Wt. 8.7
 Top Packer Depth 3490 Drill Collars Run 0 Vis 46
 Bottom Packer Depth 3495 Wt. Pipe Run 0 WL 8.8
 Total Depth 3557 Chlorides 1000 ppm System LCM 2#

Blow Description IF-Weak surface blow. Died @ 18 minutes 30 seconds.
ISI- No Return,
FF- No Blow.
FST- No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>			<u>100</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 5 BHT 107 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1707 Test 1150 T-On Location 0030
 (B) First Initial Flow 22 Jars 250 T-Started 0215
 (C) First Final Flow 23 Safety Joint 75 T-Open 0359
 (D) Initial Shut-In 456 Circ Sub _____ T-Pulled 0635
 (E) Second Initial Flow 23 Hourly Standby _____ T-Out 0815
 (F) Second Final Flow 23 Mileage 60X2 186 Comments Best-0102
 (G) Final Shut-In 55 Sampler _____
 (H) Final Hydrostatic 1678 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 60 Extra Packer _____ Extra Copies _____
 Final Flow 30 Extra Recorder _____ Sub Total 0
 Final Shut-In 30 Day Standby _____ Total 1661
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1661

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49481

4/10

Well Name & No. Gosselin #24-1 Test No. 3 Date 8-16-12
 Company H+C Oil Operations, Inc. Elevation 2152 KB 2147 GL
 Address P.O. Box 86 Plainville, KS 67663
 Co. Rep / Geo. Clayton Erickson Rig American Eagle #3
 Location: Sec. 24 Twp. 8S Rge. 22W Co. Graham State KS

Interval Tested 3552-3595 Zone Tested LKC "K+L"
 Anchor Length 43' Drill Pipe Run 3553 Mud Wt. 9.1
 Top Packer Depth 3547 Drill Collars Run 0 Vis 56
 Bottom Packer Depth 3552 Wt. Pipe Run 0 WL 8.0
 Total Depth 3595 Chlorides 1000 ppm System LCM 2#

Blow Description FF-Weak surface blow throughout,
FST- No Return.
FF-Weak surface blow @ 21 minutes.
FST- No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>USOCWM</u>	<u>5</u>	<u>60</u>	<u>35</u>	<u></u>
<u>10</u>	<u>Mud</u>	<u></u>	<u></u>	<u>100</u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>

Rec Total 20 BHT 109 Gravity API RW 475 @ 57 °F Chlorides 17000 ppm

(A) Initial Hydrostatic 1747 Test 1150 T-On Location 1700
 (B) First Initial Flow 21 Jars 250 T-Started 1730
 (C) First Final Flow 25 Safety Joint 75 T-Open 1913
 (D) Initial Shut-In 609 Circ Sub T-Pulled 2300
 (E) Second Initial Flow 26 Hourly Standby T-Out 0100
 (F) Second Final Flow 31 Mileage 60x2 186 Comments BST-1723
 (G) Final Shut-In 601 Sampler
 (H) Final Hydrostatic 1727 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies

Initial Open 30
 Initial Shut-In 60
 Final Flow 45
 Final Shut-In 90
 Sub Total 1661
 MP/DST Disc

Approved By _____ Our Representative D. Rash

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Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Gosselin #24-1
 Location: Sec: 24 T8S R22W
 License Number:
 Spud Date: 08/10/2012
 Surface Coordinates: 600' FSL & 330' FWL
 Region: Graham County, KS
 Drilling Completed: 08/17/2012

Bottom Hole Coordinates:
 Ground Elevation (ft): 2147
 Logged Interval (ft): 3050 To: TD
 K.B. Elevation (ft): 2152
 Total Depth (ft): 3850

Type of Drilling Fluid: Chemical Mud
 Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: H&C Oil Operating, Inc.
 Address: P.O. Box 86
 Plainville, KS 67663

GEOLOGIST

Name: Clayton Erickson
 Company: Erickson Wellsite Geology
 Address: 402 Palmer Street
 P.O. Box 294
 Loomis, NE 68098

COMMENTS

DSTs

DST #1 3377-3427; 30-60-30-60; Hydro: 1632-1603 IFF: 23-46 ISIP: 1035 FFP: 54-67 FSIP: 1015; Rec: 20' gassy oil, 25' 15%, 85%w, 60' 5%, 30%w, 65%w; Grav: 34, RW: .276 @ 74F CN: 22,000 ppm; IF: 7" ISI: dead FF: 7" FSI: dead

DST #2 3485-3557; 30-60-30-30; Hydro: 1707-1678 IFF: 22-23 ISIP: 456 FFP: 23-23 FSIP: 55; Rec: 5' mud; IF: dead in 18min ISI: dead FF: dead FSI: dead

DST #3 3552-3595; 30-60-45-90; Hydro: 1747-1727 IFF: 21-25 ISIP: 609 FFP: 26-31 FSIP: 601; Rec: 10' 5%, 60%w, 35%w, 10' mud; RW: .475 @ 57F CH: 17,000ppm; IFF: surface ISI: dead FFP: surface @ 21min FSI: dead

FORMATION TOPS

Log Tops

ANHYDRITE
 Base Anhy
 TOPEKA
 HEEBNER
 TORONTO
 LANSING
 BKC
 MARMATON
 ARBUCKLE
 TD

Sample tops
 1683(+469)
 1710(+442)
 3132(-980)
 3345(-1193)
 3367(-1215)
 3384(-1232)
 3590(-1438)
 3643(-1491)
 3797(-1645)
 3850(-1698)

ROCK TYPES

Anhy	Bent	Brec	Cht	Clyst	Carb. shale	Arkose	Dol	Gyp	Igne	Lmst	Meta	Mrlst	Salt	Shale	Shcol	Shgy	Siltst	Ss	Tilt
------	------	------	-----	-------	-------------	--------	-----	-----	------	------	------	-------	------	-------	-------	------	--------	----	------

OTHER SYMBOLS

OIL SHOW Even	Spotted	Ques	Dead	INTERVAL	Dst
---------------	---------	------	------	----------	-----

