



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1154564
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: _____



1154564

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

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

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

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

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

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
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	Bentley Rover Unit 29-1
Doc ID	1154564

Tops

Name	Top	Datum
Top Anhydrite	1905	+567
Base Anhydrite	1951	+521
Heebner	3679	-1207
Lansing	3717	-1245
Stark	3960	-1488
BKC	4022	-1550
Fort Scott	4216	-1744
Mississippi	4322	-1850



DRILL STEM TEST REPORT

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

PO Box 86
Plainville, KS 67663

ATTN: Marc Downing

S29-15s-27w Gove,KS

Bentley-Rover Unit #29-1

Start Date: 2013.07.28 @ 19:22:00

End Date: 2013.07.29 @ 03:11:09

Job Ticket #: 52785 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.02 @ 08:28:22

H&C Oil Operating, Inc.

Bentley-Rover Unit #29-1

S29-15s-27w Gove,KS

DST # 1

LKC'E'

2013.07.28



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

Bentley-Rover Unit #29-1

PO Box 86
Plainville, KS 67663

S29-15s-27w Gove,KS

ATTN: Marc Downing

Job Ticket: 52785

DST#: 1

Test Start: 2013.07.28 @ 19:22:00

GENERAL INFORMATION:

Formation: **LKC 'E'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:11:50

Time Test Ended: 03:11:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Smith

Unit No: 62

Interval: 3791.00 ft (KB) To 3807.00 ft (KB) (TVD)

Reference Elevations: 2472.00 ft (KB)

Total Depth: 3807.00 ft (KB) (TVD)

2461.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 196.55 psig @ 3794.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.28

End Date:

2013.07.29

Last Calib.:

2013.07.29

Start Time: 19:22:02

End Time:

03:11:10

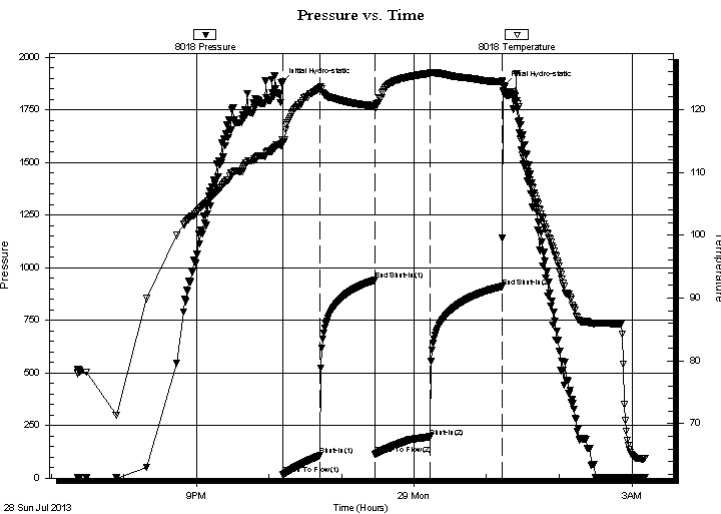
Time On Btm:

2013.07.28 @ 22:10:20

Time Off Btm:

2013.07.29 @ 01:14:09

TEST COMMENT: 8 1/2" Blow .
No return.
8" Blow .
No retrun.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1878.59	114.30	Initial Hydro-static
2	16.15	114.65	Open To Flow (1)
32	107.39	123.42	Shut-In(1)
78	940.73	120.53	End Shut-In(1)
78	112.51	120.20	Open To Flow (2)
123	196.55	125.72	Shut-In(2)
183	910.96	124.36	End Shut-In(2)
184	1864.21	122.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
369.00	MW 5m95w	1.81
31.00	OSMW 50m 50w	0.43

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

Bentley-Rover Unit #29-1

PO Box 86
Plainville, KS 67663

S29-15s-27w Gove,KS

ATTN: Marc Downing

Job Ticket: 52785

DST#: 1

Test Start: 2013.07.28 @ 19:22:00

GENERAL INFORMATION:

Formation: **LKC 'E'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:11:50

Time Test Ended: 03:11:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Smith

Unit No: 62

Interval: 3791.00 ft (KB) To 3807.00 ft (KB) (TVD)

Reference Elevations: 2472.00 ft (KB)

Total Depth: 3807.00 ft (KB) (TVD)

2461.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6751 Outside

Press @ Run Depth: psig @ 3794.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.28

End Date:

2013.07.29

Last Calib.:

2013.07.29

Start Time: 19:22:05

End Time:

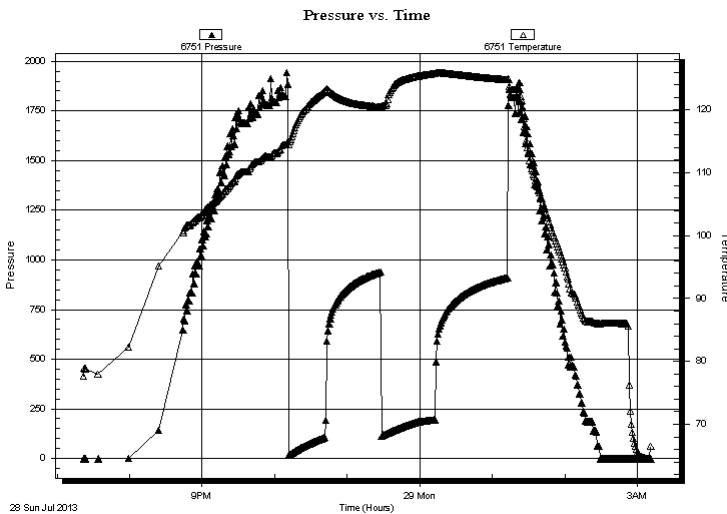
03:10:50

Time On Btm:

Time Off Btm:

TEST COMMENT: 8 1/2" Blow .
No return.
8" Blow .
No retrun.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
369.00	MW 5m95w	1.81
31.00	OSMW 50m 50w	0.43

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating, Inc.

Bentley-Rover Unit #29-1

PO Box 86
Plainville, KS 67663

S29-15s-27w Gove,KS

ATTN: Marc Downing

Job Ticket: 52785

DST#: 1

Test Start: 2013.07.28 @ 19:22:00

Tool Information

Drill Pipe:	Length: 3424.00 ft	Diameter: 3.80 inches	Volume: 48.03 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 369.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 49.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3791.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	36.00 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			3772.00	
Shut In Tool	5.00			3777.00	
Hydraulic tool	5.00			3782.00	
Packer	5.00			3787.00	20.00 Bottom Of Top Packer
Packer	4.00			3791.00	
Stubb	1.00			3792.00	
Perforations	2.00			3794.00	
Recorder	0.00	8018	Inside	3794.00	
Recorder	0.00	6751	Outside	3794.00	
Perforations	10.00			3804.00	
Perforations	3.00			3807.00	16.00 Bottom Packers & Anchor

Total Tool Length: 36.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc.

Bentley-Rover Unit #29-1

PO Box 86
Plainville, KS 67663

S29-15s-27w Gove,KS

Job Ticket: 52785 **DST#: 1**

ATTN: Marc Downing

Test Start: 2013.07.28 @ 19:22:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 105000 ppm	
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 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

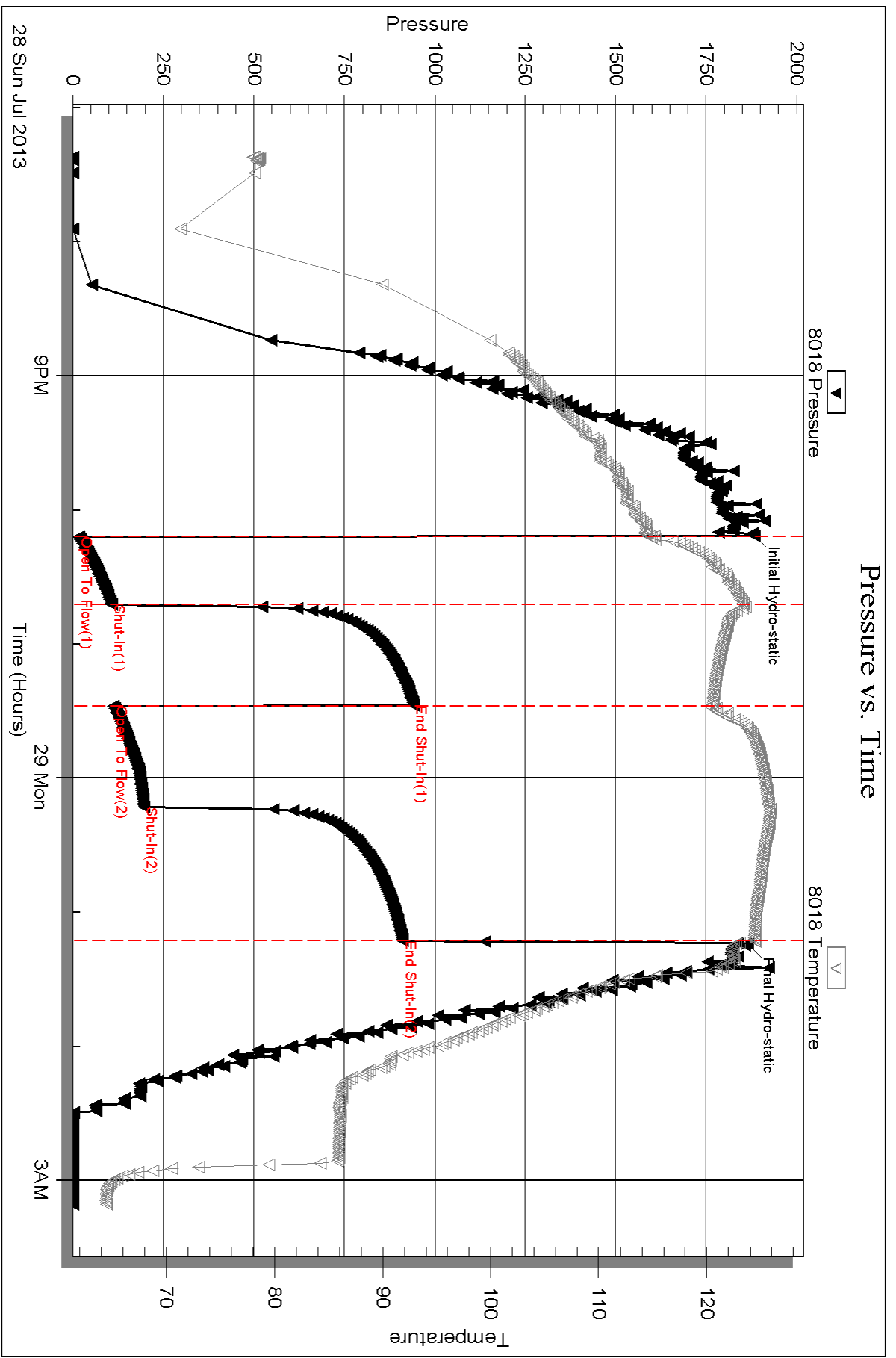
Length ft	Description	Volume bbl
369.00	MW 5m95w	1.815
31.00	OSMW 50m 50w	0.435

Total Length: 400.00 ft Total Volume: 2.250 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW: .090 @ 60 Degrees F = 105000 PPM.



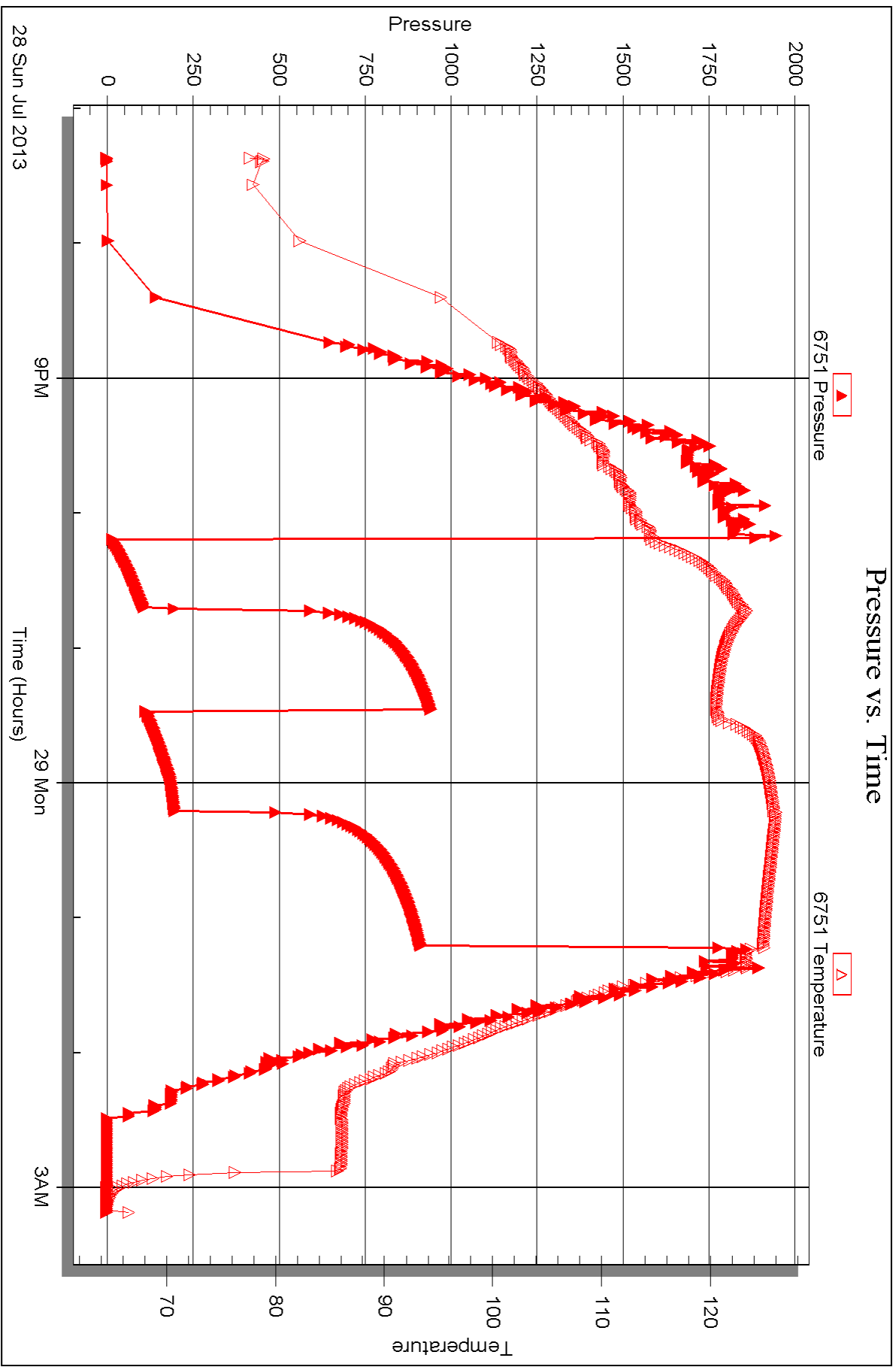
Serial #: 6751

Outside

H&C Oil Operating, Inc.

S29-15s-27w Gove KS

DST Test Number: 1





DRILL STEM TEST REPORT

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

PO Box 86
Plainville, KS 67663

ATTN: Marc Downing

S29-15s-27w Gove,KS

Bentley-Rover Unit #29-1

Start Date: 2013.07.29 @ 15:20:00

End Date: 2013.07.29 @ 21:33:20

Job Ticket #: 52786 DST #: 2

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

Printed: 2013.08.02 @ 08:27:42

H&C Oil Operating, Inc.

Bentley-Rover Unit #29-1

S29-15s-27w Gove,KS

DST # 2

LKC 'H-I'

2013.07.29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

PO Box 86
Plainville, KS 67663

ATTN: Marc Downing

Bentley-Rover Unit #29-1

S29-15s-27w Gove,KS

Job Ticket: 52786

DST#: 2

Test Start: 2013.07.29 @ 15:20:00

GENERAL INFORMATION:

Formation: **LKC 'H-I'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:30:00

Time Test Ended: 21:33:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 3855.00 ft (KB) To 3914.00 ft (KB) (TVD)

Reference Elevations: 2472.00 ft (KB)

Total Depth: 3914.00 ft (KB) (TVD)

2461.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 72.68 psig @ 3857.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.29

End Date:

2013.07.29

Last Calib.:

2013.07.29

Start Time: 15:20:02

End Time:

21:33:19

Time On Btm:

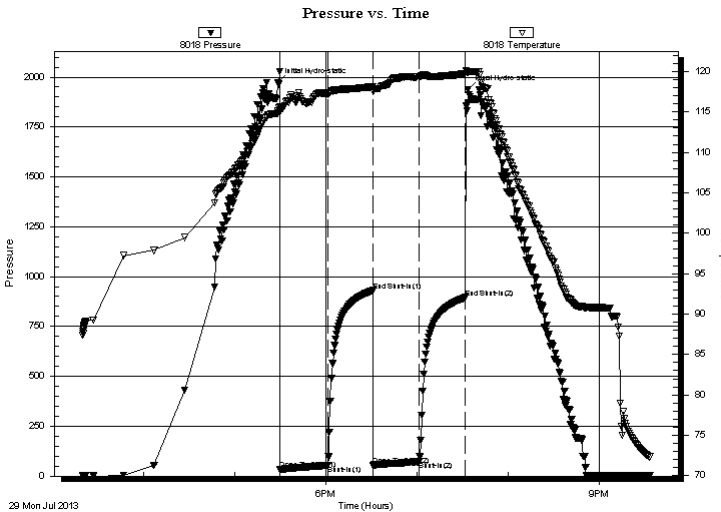
2013.07.29 @ 17:28:40

Time Off Btm:

2013.07.29 @ 19:33:30

TEST COMMENT: 1+\" Blow .
No return.
No blow .
No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1970.67	115.19	Initial Hydro-static
2	31.78	114.99	Open To Flow (1)
33	53.82	117.20	Shut-In(1)
63	930.56	118.11	End Shut-In(1)
63	55.35	117.56	Open To Flow (2)
93	72.68	119.34	Shut-In(2)
124	894.79	119.71	End Shut-In(2)
125	1937.67	119.97	Final Hydro-static

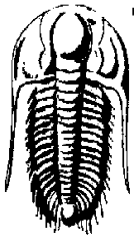
Recovery

Length (ft)	Description	Volume (bbl)
120.00	OSM 100m	0.59

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

PO Box 86
Plainville, KS 67663

ATTN: Marc Downing

Bentley-Rover Unit #29-1

S29-15s-27w Gove,KS

Job Ticket: 52786

DST#: 2

Test Start: 2013.07.29 @ 15:20:00

GENERAL INFORMATION:

Formation: **LKC 'H-I'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:30:00

Time Test Ended: 21:33:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 3855.00 ft (KB) To 3914.00 ft (KB) (TVD)

Total Depth: 3914.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2472.00 ft (KB)

2461.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6751 Outside

Press @RunDepth: psig @ 3857.00 ft (KB)

Start Date: 2013.07.29

End Date:

2013.07.29

Start Time: 15:20:05

End Time:

21:33:20

Capacity: 8000.00 psig

Last Calib.:

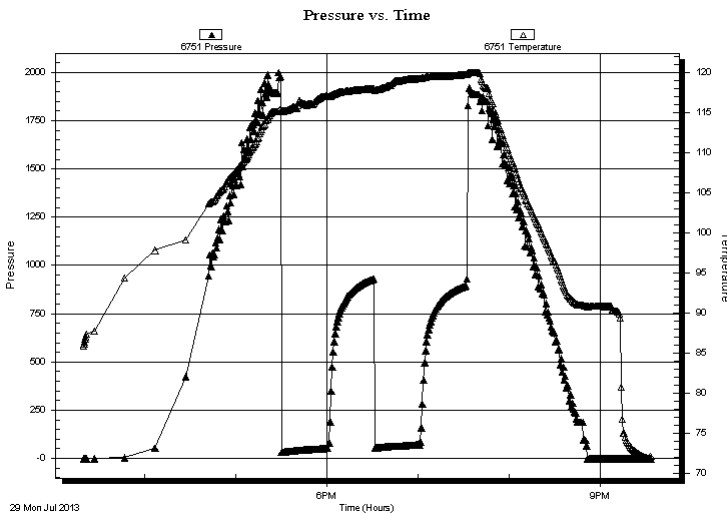
2013.07.29

Time On Btm:

Time Off Btm:

TEST COMMENT: 1+ " Blow .
No return.
No blow .
No return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OSM 100m	0.59

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.

Bentley-Rover Unit #29-1

PO Box 86
Plainville, KS 67663

S29-15s-27w Gove,KS

Job Ticket: 52786

DST#: 2

ATTN: Marc Downing

Test Start: 2013.07.29 @ 15:20:00

Tool Information

Drill Pipe:	Length: 3488.00 ft	Diameter: 3.80 inches	Volume: 48.93 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 369.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: 75000.00 lb
			Total Volume: 50.74 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3855.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	79.00 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			3836.00	
Shut In Tool	5.00			3841.00	
Hydraulic tool	5.00			3846.00	
Packer	5.00			3851.00	20.00 Bottom Of Top Packer
Packer	4.00			3855.00	
Stubb	1.00			3856.00	
Perforations	1.00			3857.00	
Recorder	0.00	8018	Inside	3857.00	
Recorder	0.00	6751	Outside	3857.00	
Perforations	21.00			3878.00	
Change Over Sub	1.00			3879.00	
Drill Pipe	31.00			3910.00	
Bullnose	1.00			3911.00	
Bullnose	3.00			3914.00	59.00 Bottom Packers & Anchor

Total Tool Length: 79.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc.

Bentley-Rover Unit #29-1

PO Box 86
Plainville, KS 67663

S29-15s-27w Gove,KS

Job Ticket: 52786

DST#: 2

ATTN: Marc Downing

Test Start: 2013.07.29 @ 15:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

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
120.00	OSM 100m	0.590

Total Length: 120.00 ft Total Volume: 0.590 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

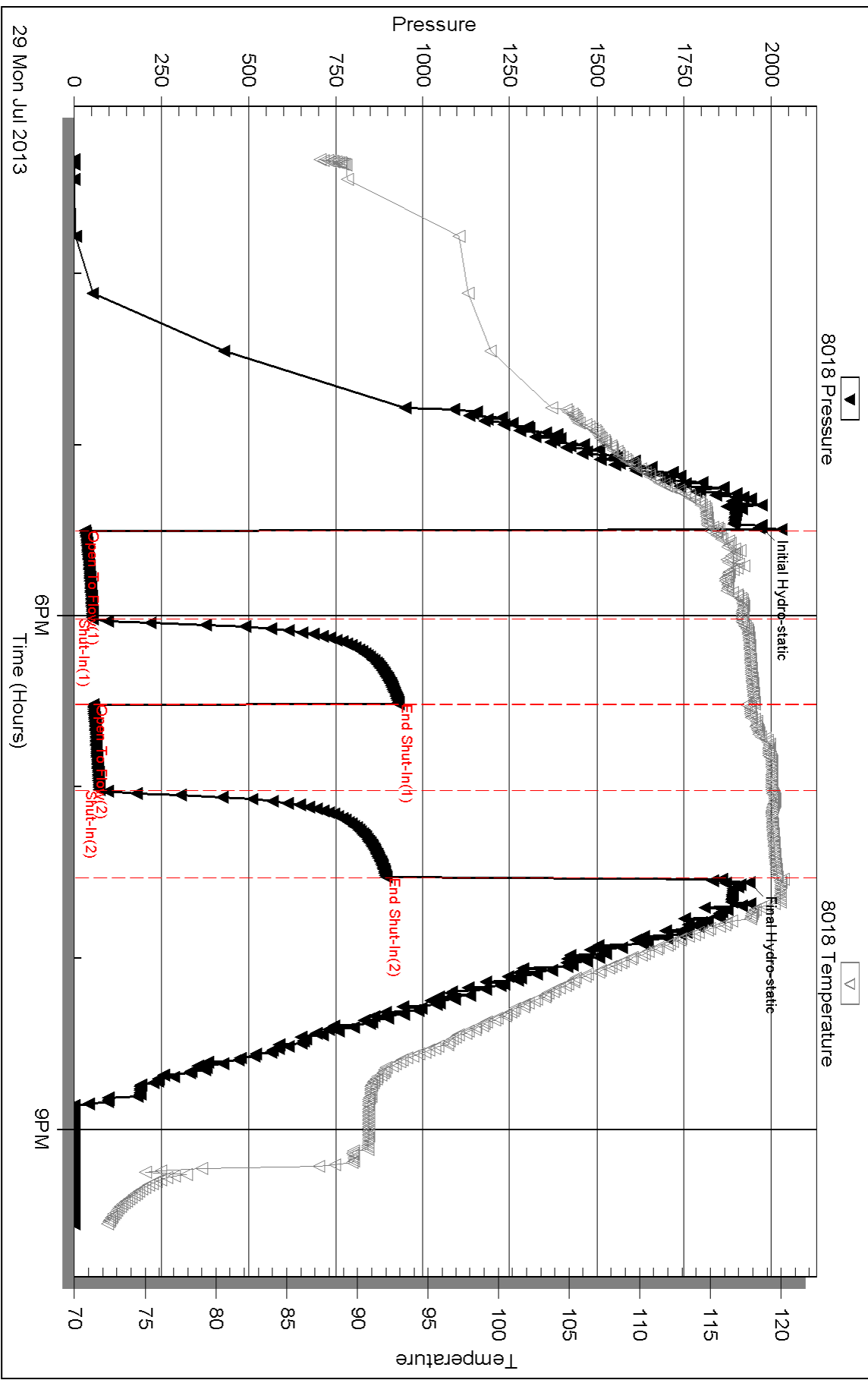
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



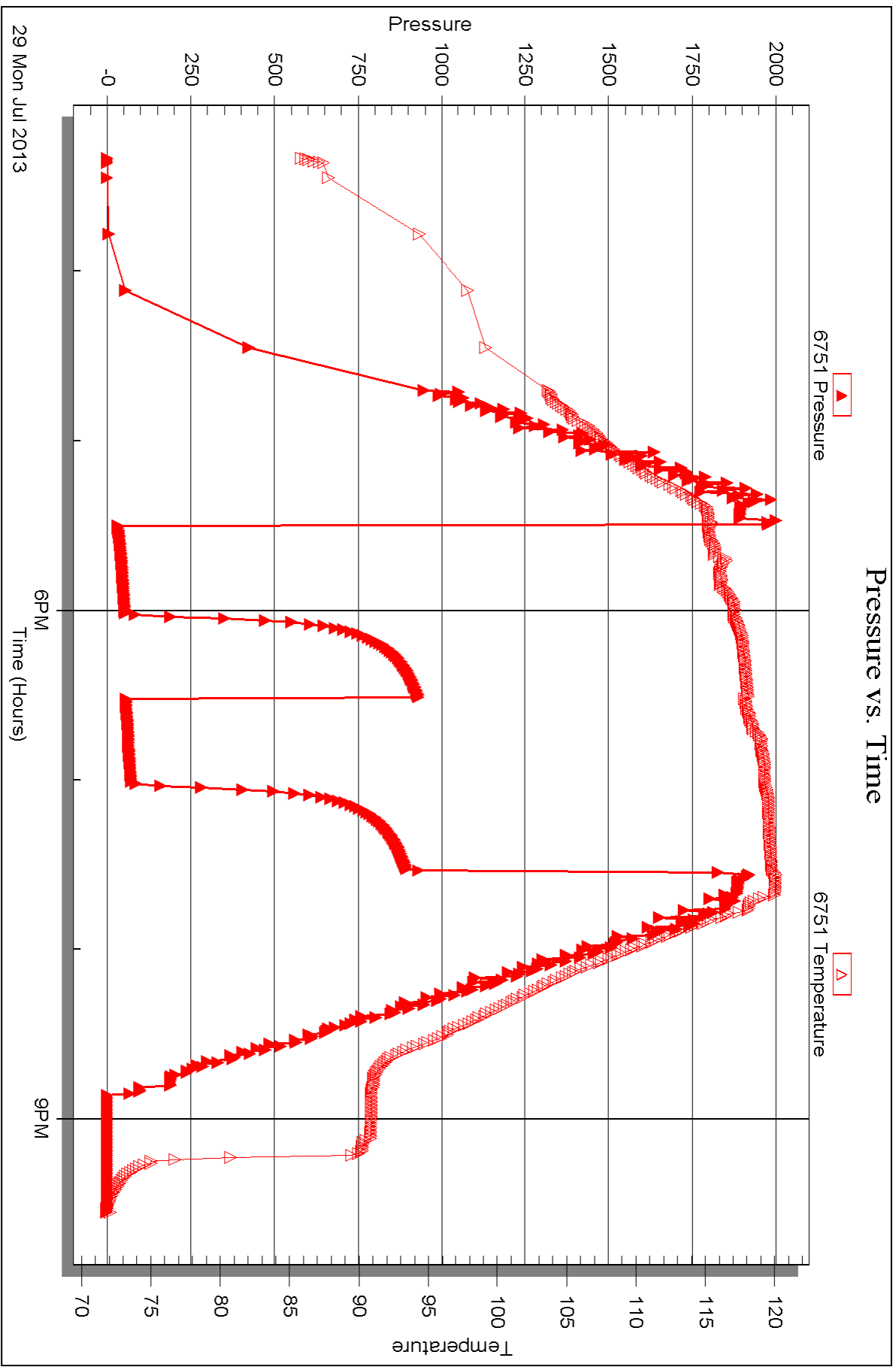
Serial #: 6751

Outside

H&C Oil Operating, Inc.

S29-15s-27w Gove KS

DST Test Number: 2



29 Mon Jul 2013



DRILL STEM TEST REPORT

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

PO Box 86
Plainville, KS 67663

ATTN: Marc Downing

S29-15s-27w Gove,KS

Bentley-Rover Unit #29-1

Start Date: 2013.07.30 @ 06:10:00

End Date: 2013.07.30 @ 13:37:50

Job Ticket #: 52787 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.02 @ 08:27:10

H&C Oil Operating, Inc.

Bentley-Rover Unit #29-1

S29-15s-27w Gove,KS

DST # 3

LKC 'J'

2013.07.30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

PO Box 86
Plainville, KS 67663

ATTN: Marc Downing

Bentley-Rover Unit #29-1

S29-15s-27w Gove,KS

Job Ticket: 52787

DST#: 3

Test Start: 2013.07.30 @ 06:10:00

GENERAL INFORMATION:

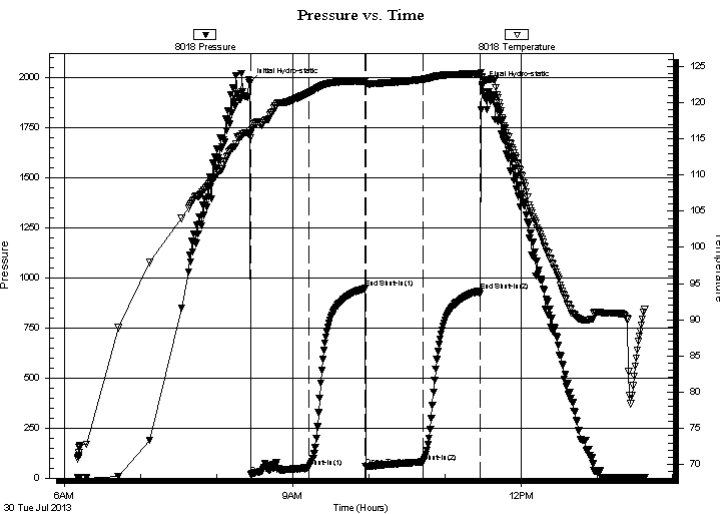
Formation: **LKC 'J'**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 08:26:40
 Tester: Chuck Smith
 Time Test Ended: 13:37:50
 Unit No: 62
 Interval: **3922.00 ft (KB) To 3950.00 ft (KB) (TVD)**
 Reference Elevations: 2472.00 ft (KB)
 Total Depth: 3950.00 ft (KB) (TVD)
 2461.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 11.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 81.48 psig @ 3925.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.07.30 End Date: 2013.07.30 Last Calib.: 2013.07.30
 Start Time: 06:10:02 End Time: 13:37:49 Time On Btm: 2013.07.30 @ 08:25:40
 Time Off Btm: 2013.07.30 @ 11:29:09

TEST COMMENT: 3" Blow .
 No return.
 1" Blow .
 No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1974.32	115.87	Initial Hydro-static
1	19.04	115.17	Open To Flow (1)
47	52.46	121.34	Shut-In(1)
92	948.23	123.00	End Shut-In(1)
92	58.01	122.48	Open To Flow (2)
138	81.48	123.21	Shut-In(2)
182	935.76	124.00	End Shut-In(2)
184	1962.32	123.61	Final Hydro-static

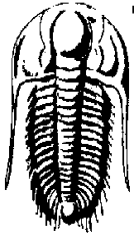
Recovery

Length (ft)	Description	Volume (bbl)
93.00	OSWM 20w 80m	0.46
50.00	OCM 10o 90m	0.25

* 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.

Bentley-Rover Unit #29-1

PO Box 86
Plainville, KS 67663

S29-15s-27w Gove,KS

ATTN: Marc Downing

Job Ticket: 52787

DST#: 3

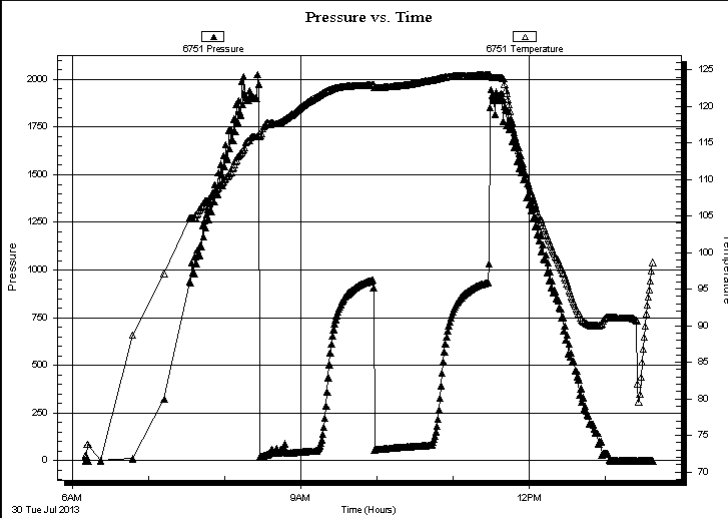
Test Start: 2013.07.30 @ 06:10:00

GENERAL INFORMATION:

Formation: **LKC 'J'**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 08:26:40
 Tester: Chuck Smith
 Time Test Ended: 13:37:50
 Unit No: 62
Interval: 3922.00 ft (KB) To 3950.00 ft (KB) (TVD)
 Reference Elevations: 2472.00 ft (KB)
 Total Depth: 3950.00 ft (KB) (TVD)
 2461.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 11.00 ft

Serial #: 6751 **Outside**
 Press @ RunDepth: psig @ 3925.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2013.07.30
 End Date: 2013.07.30
 Last Calib.: 2013.07.30
 Start Time: 06:10:05
 End Time: 13:37:40
 Time On Btm:
 Time Off Btm:

TEST COMMENT: 3" Blow .
 No return.
 1" Blow .
 No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
93.00	OSWM 20w 80m	0.46
50.00	OCM 10o 90m	0.25

* 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.

Bentley-Rover Unit #29-1

PO Box 86
Plainville, KS 67663

S29-15s-27w Gove,KS

ATTN: Marc Downing

Job Ticket: 52787

DST#: 3

Test Start: 2013.07.30 @ 06:10:00

Tool Information

Drill Pipe:	Length: 3550.00 ft	Diameter: 3.80 inches	Volume: 49.80 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 369.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 51.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	3922.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3903.00	
Shut In Tool	5.00			3908.00	
Hydraulic tool	5.00			3913.00	
Packer	5.00			3918.00	20.00 Bottom Of Top Packer
Packer	4.00			3922.00	
Stubb	1.00			3923.00	
Perforations	2.00			3925.00	
Recorder	0.00	8018	Inside	3925.00	
Recorder	0.00	6751	Outside	3925.00	
Perforations	22.00			3947.00	
Perforations	3.00			3950.00	28.00 Bottom Packers & Anchor

Total Tool Length: 48.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc.

Bentley-Rover Unit #29-1

PO Box 86
Plainville, KS 67663

S29-15s-27w Gove,KS

Job Ticket: 52787

DST#: 3

ATTN: Marc Downing

Test Start: 2013.07.30 @ 06:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

48000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

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 bbbl
93.00	OSWM 20w 80m	0.457
50.00	OCM 10o 90m	0.246

Total Length: 143.00 ft Total Volume: 0.703 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

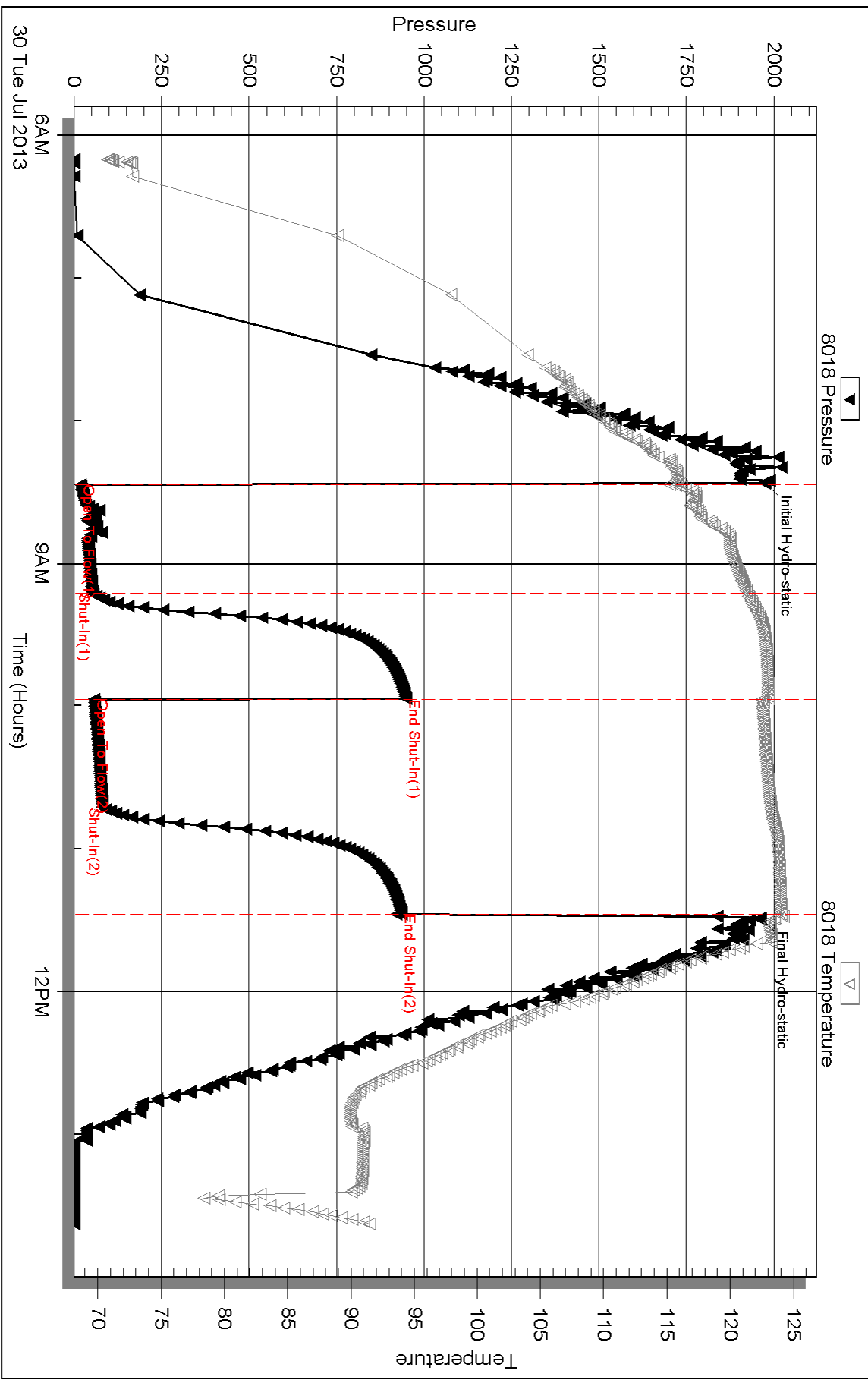
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .129 @ 82 Degrees F = 48000 PPM.

Pressure vs. Time



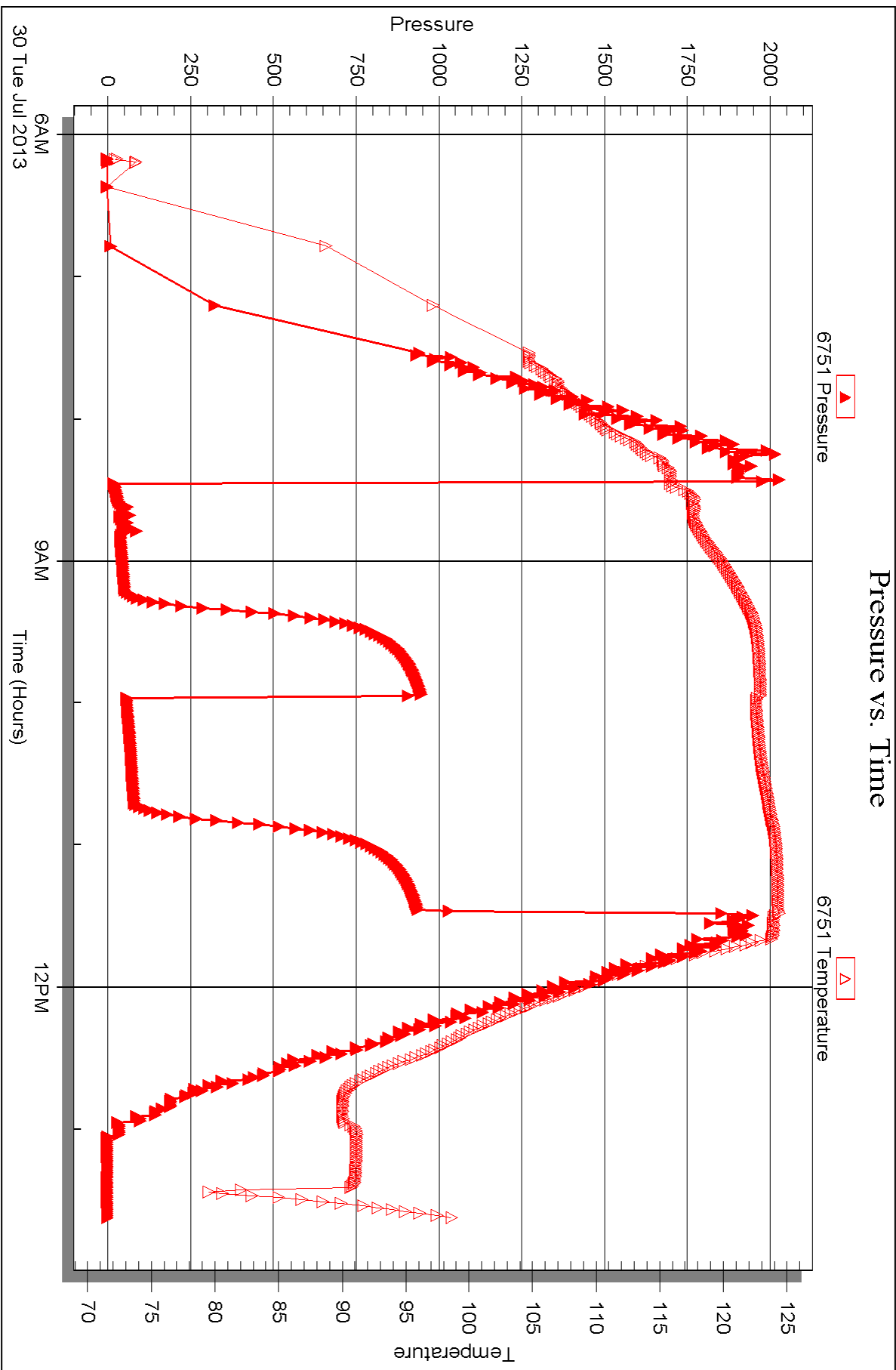
Serial #: 6751

Outside

H&C Oil Operating, Inc.

S29-15s-27w Gove KS

DST Test Number: 3





DRILL STEM TEST REPORT

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

PO Box 86
Plainville, KS 67663

ATTN: Marc Downing

S29-15s-27w Gove,KS

Bentley-Rover Unit #29-1

Start Date: 2013.07.30 @ 21:30:00

End Date: 2013.07.31 @ 03:22:09

Job Ticket #: 52788 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.02 @ 08:26:28

H&C Oil Operating, Inc.

Bentley-Rover Unit #29-1

S29-15s-27w Gove,KS

DST # 4

LKC 'K'

2013.07.30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating, Inc.

Bentley-Rover Unit #29-1

PO Box 86
Plainville, KS 67663

S29-15s-27w Gove,KS

ATTN: Marc Downing

Job Ticket: 52788

DST#: 4

Test Start: 2013.07.30 @ 21:30:00

GENERAL INFORMATION:

Formation: **LKC 'K'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:37:10
 Time Test Ended: 03:22:09
 Interval: **3949.00 ft (KB) To 3990.00 ft (KB) (TVD)**
 Total Depth: 3990.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Smith
 Unit No: 62
 Reference Elevations: 2472.00 ft (KB)
 2461.00 ft (CF)
 KB to GR/CF: 11.00 ft

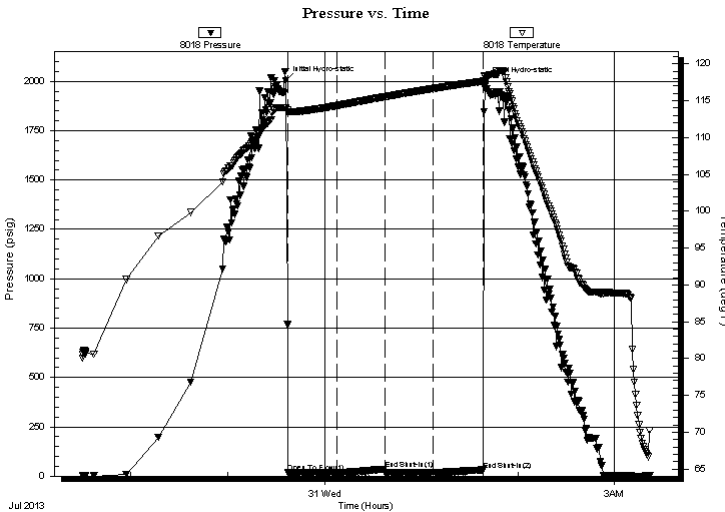
Serial #: 8018

Inside

Press @ Run Depth: 18.94 psig @ 3951.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.07.30 End Date: 2013.07.31 Last Calib.: 2013.07.31
 Start Time: 21:30:02 End Time: 03:22:10 Time On Btm: 2013.07.30 @ 23:36:00
 Time Off Btm: 2013.07.31 @ 01:39:50

TEST COMMENT: 1/4" Blow died @ 17 min.
 No return.
 No blow.
 No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2002.27	114.00	Initial Hydro-static
2	17.89	113.33	Open To Flow (1)
32	18.38	114.32	Shut-In(1)
62	36.07	115.54	End Shut-In(1)
62	18.06	115.53	Open To Flow (2)
92	18.94	116.65	Shut-In(2)
123	31.73	117.65	End Shut-In(2)
124	1999.39	118.30	Final Hydro-static

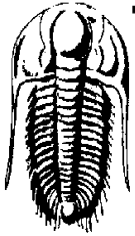
Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100m	0.05

* 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.

Bentley-Rover Unit #29-1

PO Box 86
Plainville, KS 67663

S29-15s-27w Gove,KS

ATTN: Marc Downing

Job Ticket: 52788

DST#: 4

Test Start: 2013.07.30 @ 21:30:00

GENERAL INFORMATION:

Formation: **LKC 'K'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:37:10

Time Test Ended: 03:22:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: **3949.00 ft (KB) To 3990.00 ft (KB) (TVD)**

Reference Elevations: 2472.00 ft (KB)

Total Depth: 3990.00 ft (KB) (TVD)

2461.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6751 Outside

Press @ Run Depth: psig @ 3951.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.30 End Date: 2013.07.31

Last Calib.: 2013.07.31

Start Time: 21:30:05 End Time: 03:22:10

Time On Btm:

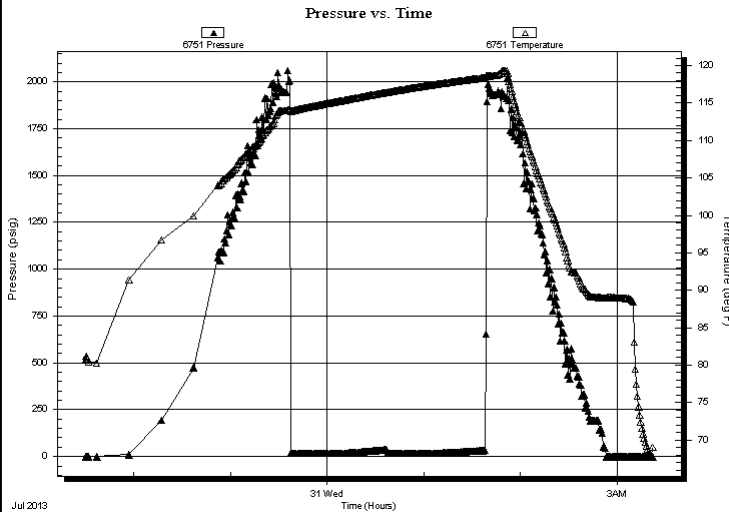
Time Off Btm:

TEST COMMENT: 1/4" Blow died @ 17 min.

No return.

No blow.

No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100m	0.05

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.

Bentley-Rover Unit #29-1

PO Box 86
Plainville, KS 67663

S29-15s-27w Gove,KS

Job Ticket: 52788

DST#: 4

ATTN: Marc Downing

Test Start: 2013.07.30 @ 21:30:00

Tool Information

Drill Pipe:	Length: 3583.00 ft	Diameter: 3.80 inches	Volume: 50.26 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 369.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 52.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	3949.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	61.00 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			3930.00	
Shut In Tool	5.00			3935.00	
Hydraulic tool	5.00			3940.00	
Packer	5.00			3945.00	20.00 Bottom Of Top Packer
Packer	4.00			3949.00	
Stubb	1.00			3950.00	
Perforations	1.00			3951.00	
Recorder	0.00	8018	Inside	3951.00	
Recorder	0.00	6751	Outside	3951.00	
Perforations	3.00			3954.00	
Change Over Sub	1.00			3955.00	
Drill Pipe	31.00			3986.00	
Bullnose	1.00			3987.00	
Bullnose	3.00			3990.00	41.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating, Inc.

Bentley-Rover Unit #29-1

PO Box 86
Plainville, KS 67663

S29-15s-27w Gove,KS

Job Ticket: 52788

DST#: 4

ATTN: Marc Downing

Test Start: 2013.07.30 @ 21:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

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
10.00	OSM 100m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

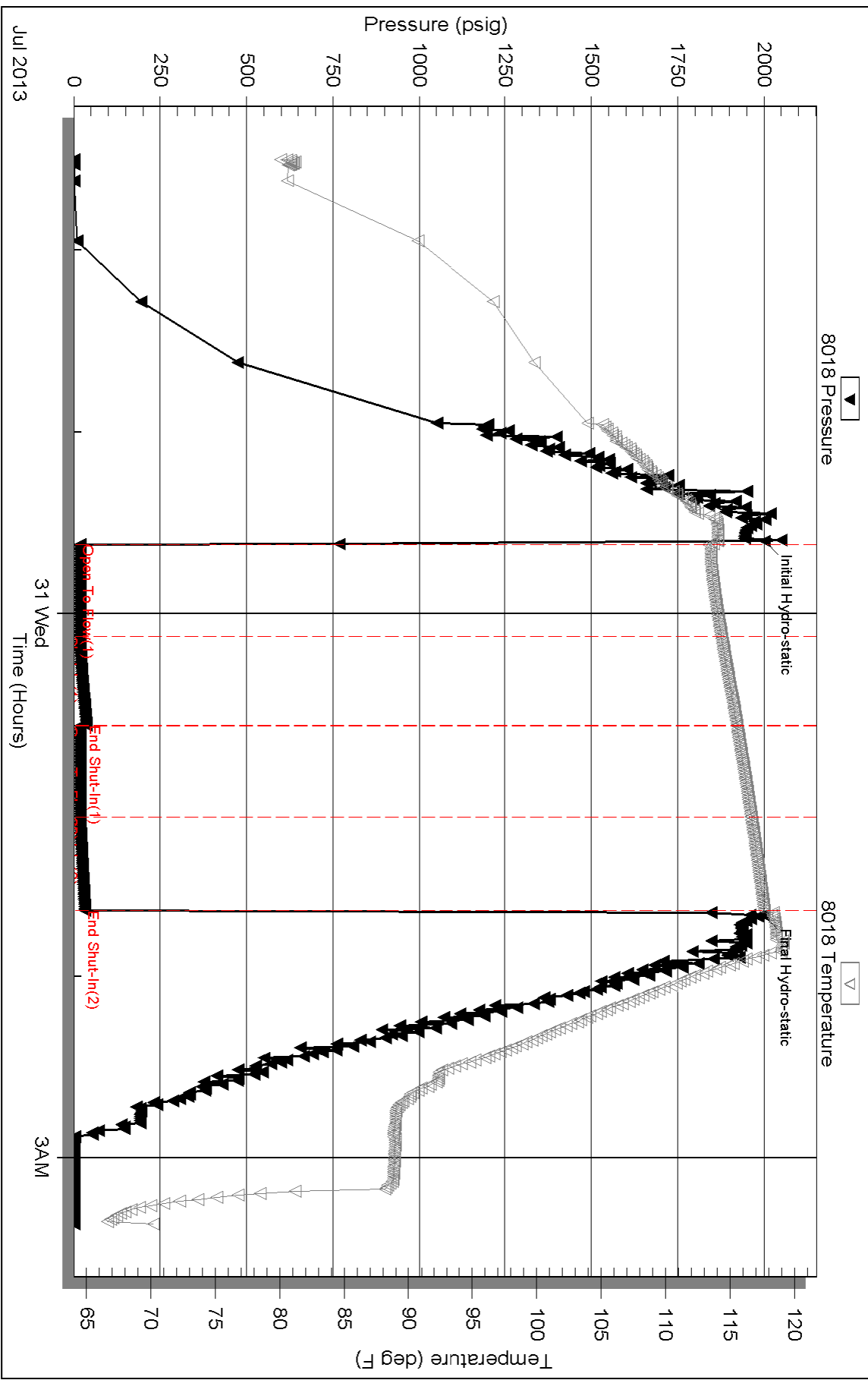
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

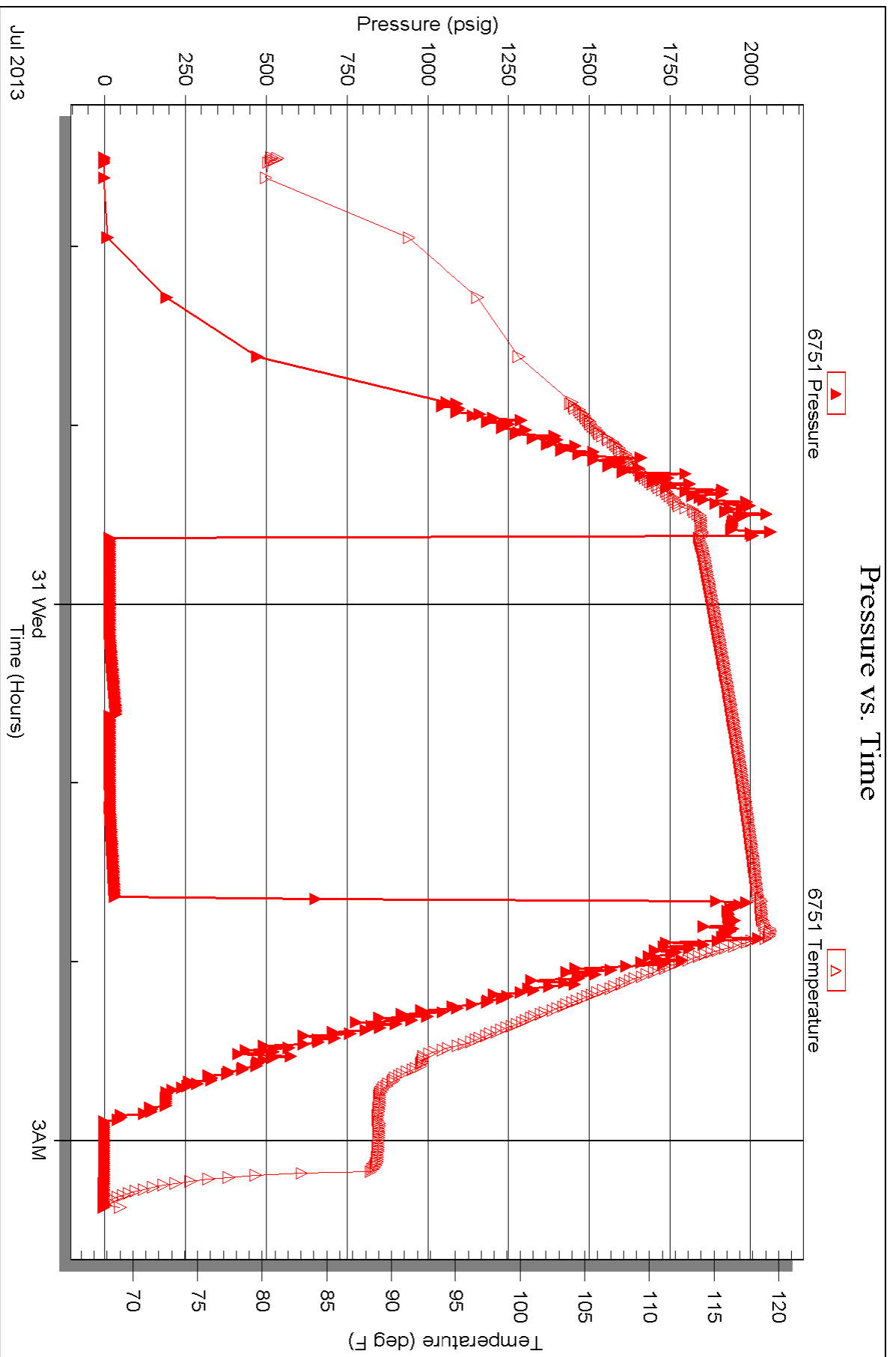


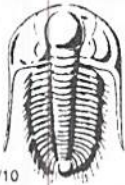
Serial #: 6751

Outside H&C Oil Operating, Inc.

S29-15s-27w Gove KS

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52785

4/10

Well Name & No. Bentley - Rover Unit 29-1 Test No. 1 Date 7-28-13
 Company H+C Oil Operating, Inc. Elevation 2472 KB 2461 GL
 Address POB 86 Plainville, KS 67663
 Co. Rep / Geo. Marc Downing Rig H2#1
 Location: Sec. 29 Twp. 15 Rge. 27 Co. Gove State KS

Interval Tested 3791-3807 Zone Tested LKC 'E'
 Anchor Length 16 Drill Pipe Run 3424 Mud Wt. 9.0
 Top Packer Depth 3787 Drill Collars Run 369 Vis 55
 Bottom Packer Depth 3791 Wt. Pipe Run — WL 8.0
 Total Depth 3807 Chlorides 1000 ppm System LCM 2"
 Blow Description 8 1/2" Blow
No return.
8" Blow
No return

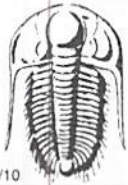
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>31</u>	Feet of <u>OSMW</u>			<u>50</u>	<u>50</u>
Rec <u>369</u>	Feet of <u>MW</u>			<u>95</u>	<u>5</u>
Rec _____	Feet of _____				
Rec _____	Feet of _____				

Rec Total 400 BHT 124 Gravity — API RW .090 @ 60 °F Chlorides 105,000 ppm

(A) Initial Hydrostatic <u>1879</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>18:00</u>
(B) First Initial Flow <u>116</u>	<input type="checkbox"/> Jars _____	T-Started <u>19:22</u>
(C) First Final Flow <u>107</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>22:12</u>
(D) Initial Shut-In <u>941</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>1:13</u>
(E) Second Initial Flow <u>117</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>3:11</u>
(F) Second Final Flow <u>197</u>	<input checked="" type="checkbox"/> Mileage <u>96RT</u> 148.80	Comments _____
(G) Final Shut-In <u>911</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1864</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>345</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1448.80</u>
	<input checked="" type="checkbox"/> Accessibility <u>150</u>	MP/DST Disc't _____
	Sub Total <u>1448.80</u>	

Approved By _____ Our Representative Chuck Smith

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. 52786

4/10

Well Name & No. Bentley-Rover Unit 29-1 Test No. 2 Date 7-29-13
 Company H+C Oil Operating, Inc. Elevation 2472 KB 2461 GL
 Address POB 86 Plainville, KS 67663
 Co. Rep / Geo. Marc Downing Rig H2#1
 Location: Sec. 29 Twp. 15 Rge. 27 Co. Gove State KS

Interval Tested 3855 - 3914 Zone Tested LKC 'H,I'
 Anchor Length 59 Drill Pipe Run 3488 Mud Wt. 9.1
 Top Packer Depth 3851 Drill Collars Run 369 Vis 55
 Bottom Packer Depth 3855 Wt. Pipe Run - WL 8.0
 Total Depth 3914 Chlorides 2000 ppm System LCM 4#

Blow Description 1" Blow
No return.
No return.
No blow.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>120</u>	Feet of <u>OSM</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

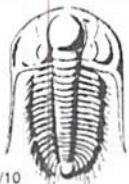
Rec Total 120 BHT 120 Gravity - API RW @ °F Chlorides - ppm

(A) Initial Hydrostatic 1971 Test 1150 T-On Location 14:45
 (B) First Initial Flow 32 Jars T-Started 15:20
 (C) First Final Flow 54 Safety Joint T-Open 17:29
 (D) Initial Shut-In 931 Circ Sub NIC T-Pulled 19:34
 (E) Second Initial Flow 55 Hourly Standby T-Out 21:32
 (F) Second Final Flow 73 Mileage 148.80 Comments
 (G) Final Shut-In 895 Sampler
 (H) Final Hydrostatic 1938 Straddle Ruined Shale Packer

Initial Open 30 Shale Packer Ruined Packer
 Initial Shut-In 30 Extra Packer Extra Copies
 Final Flow 30 Extra Recorder Sub Total 0
 Final Shut-In 30 Day Standby Total 1448.80
 Accessibility 150 MP/DST Disc't
 Sub Total 1448.80

Approved By _____ Our Representative Chuck Smith

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. 52787

4/10

Well Name & No. Bentley-Rover Unit 29-1 Test No. 3 Date 7-30-13
 Company H+C Oil Operating, Inc. Elevation 2472 KB 2461 GL
 Address POB 86 Plainville, KS 67663
 Co. Rep / Geo. Marc Downing Rig H2#1
 Location: Sec. 29 Twp. 15 Rge. 27 Co. Gove State KS

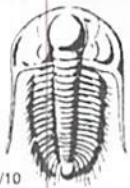
Interval Tested 3922-3950 Zone Tested LKC 'J'
 Anchor Length 28 Drill Pipe Run 3550 Mud Wt. 9.1
 Top Packer Depth 3918 Drill Collars Run 369 Vis 56
 Bottom Packer Depth 3922 Wt. Pipe Run - WL 8.0
 Total Depth 3950 Chlorides 2000 ppm System LCM 2#
 Blow Description 3" Blow.
No return.
1" Blow.
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>50</u>	Feet of <u>OCM</u>	%gas	<u>10</u> %oil	%water <u>90</u>	%mud
Rec <u>93</u>	Feet of <u>OSWM</u>	%gas	%oil <u>20</u>	%water <u>80</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 143 BHT 124 Gravity - API RW .129 @ 82 °F Chlorides 48000 ppm
 (A) Initial Hydrostatic 1974 Test 1150 T-On Location 6:10
 (B) First Initial Flow 19 Jars T-Started 6:10
 (C) First Final Flow 52 Safety Joint T-Open 8:
 (D) Initial Shut-In 948 Circ Sub N/C T-Pulled 11:
 (E) Second Initial Flow 58 Hourly Standby T-Out 13:38
 (F) Second Final Flow 81 Mileage 148.80 Comments
 (G) Final Shut-In 934 Sampler
 (H) Final Hydrostatic 1962 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 1448.80
 Final Flow 45 Accessibility 150 MP/DST Disc't
 Final Shut-In 45 Sub Total 1448.80

Approved By Marc Downing Our Representative Chuck Smith

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. 52788

4/10

Well Name & No. Bentley-Rover Unit 29-1 Test No. 4 Date 7-30-13
 Company H+C Oil Operating, Inc. Elevation 2472 KB 2461 GL
 Address POB 86 Plainville, KS 67663
 Co. Rep / Geo. Marc Downing Rig H2#1
 Location: Sec. 29 Twp. 15 Rge. 27 Co. Gove State Ks

Interval Tested 3949-3990 Zone Tested LKC 'K'
 Anchor Length 41 Drill Pipe Run 3583 Mud Wt. 9.0
 Top Packer Depth 3945 Drill Collars Run 369 Vis 58
 Bottom Packer Depth 3949 Wt. Pipe Run - WL 8.0
 Total Depth 3990 Chlorides 2000 ppm System LCM 1#
 Blow Description 1/4" Blow died @ 17min.
No return.
No blow.
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>10</u>	Feet of <u>OS M</u>	%gas	%oil	%water <u>100</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 118 Gravity - API RW @ °F Chlorides - ppm

(A) Initial Hydrostatic <u>2002</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>21:15</u>
(B) First Initial Flow <u>18</u>	<input type="checkbox"/> Jars	T-Started <u>21:30</u>
(C) First Final Flow <u>18</u>	<input type="checkbox"/> Safety Joint	T-Open <u>23:37</u>
(D) Initial Shut-In <u>36</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>01:38</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>03:22</u>
(F) Second Final Flow <u>19</u>	<input checked="" type="checkbox"/> Mileage <u>X2</u> 297.60	Comments <u>No test, picked up</u>
(G) Final Shut-In <u>32</u>	<input type="checkbox"/> Sampler	<u>tool 8-1-13 22:30</u>
(H) Final Hydrostatic <u>1999</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>800</u>
Final Shut-In <u>30</u>	<input checked="" type="checkbox"/> Day Standby <u>1d 19.25</u>	Total <u>2397.60</u>
	<input checked="" type="checkbox"/> Accessibility <u>150</u>	MP/DST Disc't
	Sub Total <u>1597.60</u>	

Approved By _____ Our Representative Chuck Smith

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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

August 07, 2013

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

Re: ACO1
API 15-063-22105-00-00
Bentley Rover Unit 29-1
N/2 Sec.29-15S-27W
Gove 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

COMPANY: HFC Oil Operations, Inc.
 WELL: Bentley-Lower Unit # 29-1
 FIELD: Lilledal
 LOCATION: 2318' FNL + 2434' FEL
 SEC.: 29 TWP. 15S RGE. 27W
 COUNTY: Grove
 STATE: Kansas
 OPERATOR: HFC Oil Operations, Rig #1
 CONTRACTOR: HZ Rig #1
 COMM: 7-25-13
 CASING RECORD: COMP. 8-1-13
 SURF: 48' @ 2nd PROD. None
 TOTAL DEPTH DRILLERS: 4370'
 TOTAL DEPTH LOG: 4372'

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRICAL LOG	SURFACE POSITION	STRUCTURAL POSITION
Tag Anhydrite	NA	1905	+521	+22
Base Anhydrite	NA	1951	+521	+22
Heesner	3672	3679	-1207	+10
Lansing	3712	3717	-1248	+19
Frank	3753	3760	-1488	+14
Fort Scott	4104	4122	-1550	+14
Miss	4204	4212	-1744	+19
Miss	4314	4322	-1858	+23

PRODUCTION: KB 24TZ
 ELEVATION: DF 24TZ
 GL 2461
 Drilling Measured from: 48' to: 70'
 Sample Size from: 3/8" to: 7/8"
 Drilling Time from: 3:50 to: 7:0
 Sample Examined from: 3:50 to: 7:0
 Geological Supervision from: 3:50 to: 7:0
 Wellbore Geologist: Anne Downing
 CML/CDL: Pioneer
 DIL: Pioneer
 MEZ

DRILL STEM TESTS

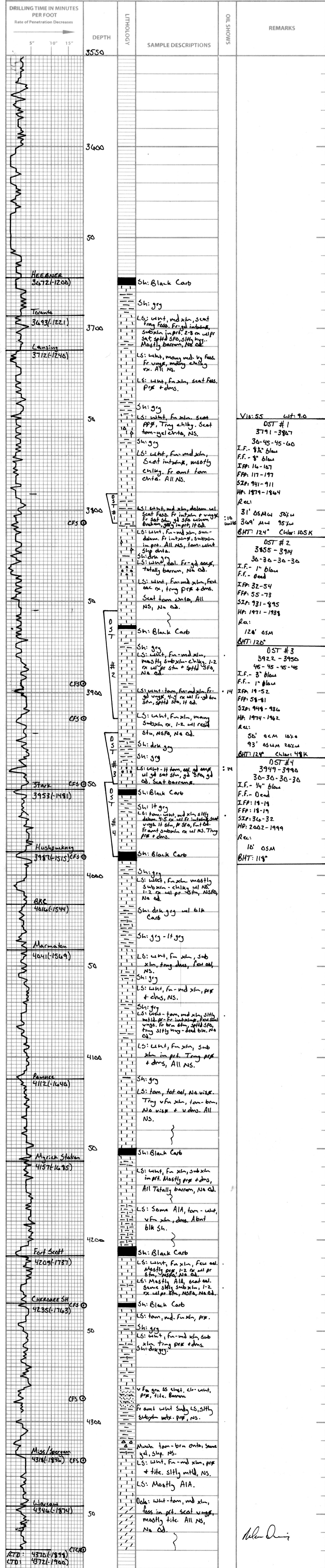
No.	Interval	HP/Time	ISP/Time	FFP/Time	ESP/Time	HP-FHP	RECOVERY

REFERENCES AND RECOMMENDATIONS: Due to negative DST results + log evaluations, it was decided to plug + abandon this well.

Marc Downing

LEGEND

	Anhydrite		Salt		Sandstone		Shale		Carb sh		Limestone		Ool.Lime		Chert		Dolomite
--	-----------	--	------	--	-----------	--	-------	--	---------	--	-----------	--	----------	--	-------	--	----------



ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. # 20-8651475

060556

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

Great Bend, TX

DATE <u>8-2-13</u>	SEC. <u>29</u>	TWP. <u>15</u>	RANGE <u>27N</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE # <u>Boyer</u>	WELL # <u>29-1</u>	LOCATION <u>Boyer 5 1/2" N</u>				COUNTY <u>Goale</u>	STATE <u>KS</u>
OLD OR NEW (Circle one)							

CONTRACTOR H2 Drilling #1 OWNER _____

TYPE OF JOB Boyer Plug

HOLE SIZE I.D. _____
 CASING SIZE DEPTH _____
 TUBING SIZE DEPTH _____
 DRILL PIPE 4 1/2 DEPTH 1940

TOOL _____
 PRES. MAX. MINIMUM _____
 MEAS. LINE SHOE JOINT _____
 CEMENT LEFT IN CSG. 11
 PERFS. _____
 DISPLACEMENT Freshways
 EQUIPMENT _____

PUMP TRUCK CEMENTER Dustin Chambers
 # 796 HELPER Mike Sothern
 BULK TRUCK _____
 # 54-196 DRIVER Steve Vasquez
 BULK TRUCK _____
 # _____ DRIVER _____

REMARKS:
Fill hole with 1/2 bag sand
1. 1940-25 SKS
2. 925-100 SKS
3. 300-40 SKS
4. 40-10 SKS
5. RH-30 SKS
6. PH-15 SKS
plug down 6.45 AM

	SERVICE
DEPTH OF JOB	1940
PUMP TRUCK CHARGE	2749.84
EXTRA FOOTAGE	@
MILEAGE	HIM 40 @ 7.70 308.00
MANIFOLD	LVM 40 @ 4.40 176.00
TOTAL	5151.41

CHARGE TO: H & C oil
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@
	@
	@
	@
	@
TOTAL	

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (if Any)	
TOTAL CHARGES	<u>7,885.25</u>
DISCOUNT	<u>- 1,577.05</u>
	<u>\$ 6,308.20</u>

PRINTED NAME Jose C. Fabella
 SIGNATURE Jose C. Fabella
Thank you!

IF PAID IN 30 DAYS

ALLI OIL & GAS SERVIC. S, LLC 061730

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

DATE 7-24-13 SEC 29 TWP. 15 RANGE 27 CALLED OUT 6:00 PM ON LOCATION 10:00 PM 7-24-13
 LEASE Bentley Power WELL # 29-1 LOCATION Utter 8 W. 5/2nd, 1 W. JOB START 7:00 AM JOB FINISH 3:00 AM
 OLD OR NEW (Circle one) COUNTY Harris STATE TX

CONTRACTOR H 2 Meg OWNER Same

TYPE OF JOB Surface CEMENT

HOLE SIZE 12 1/4 T.D. 216' AMOUNT ORDERED 175 lbs. Cement 390cc

CASING SIZE 8 3/8 DEPTH 216' 280 lbs

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX. MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 15.92

EQUIPMENT

PUMP TRUCK CEMENTER Tom Anderson

577 HELPER Charles Kempner

BULK TRUCK DRIVER Tom Kempner

BULK TRUCK DRIVER

#

REMARKS: Run 216' of 8 3/8" grade cementation

pumped 518 H₂O. Mixed 175 lbs cement

A. 32cc, 280 lbs. Pumped 1000

H₂O

Cement Add Surecrete

CHARGE TO: H & C Oil Operating

STREET

CITY STATE ZIP

To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Jose Carlos Lopez

SIGNATURE Jose Carlos Lopez

COMMON	175	@	17.90	3.132.50
POZMIX		@		
GEL	3	@	23.40	70.20
CHLORIDE	6	@	64.00	384.00
ASC		@		
HANDLING	188.74	@	2.48	468.97
MILEAGE	8.62 x 40 x		2.60	896.78
TOTAL				4951.25

DEPTH OF JOB	216'			
PUMP TRUCK CHARGE			1512.25	
EXTRA FOOTAGE		@		
MILEAGE	Harris 40	@	7.70	308.00
MANIFOLD	harris 40	@	4.40	176.00
TOTAL				1.996.25

PLUG & FLOAT EQUIPMENT				
		@		
		@		
		@		
		@		
TOTAL				

SALES TAX (if Any) _____
 TOTAL CHARGES 6,947.50
 DISCOUNT 1,389.29 IF PAID IN 30 DAYS
5,558.21