



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1071460
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: _____

1071460

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:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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DRILL STEM TEST REPORT

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

PO Box 86
Plainville, KS 67663

ATTN: Marc Downing

Goetz #1-1

1-7s-23w Graham,KS

Start Date: 2011.12.20 @ 16:25:00

End Date: 2011.12.20 @ 23:48:00

Job Ticket #: 042953 DST #: 1

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

Printed: 2011.12.29 @ 10:03:41



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating Inc.

1-7s-23w Graham,KS

PO Box 86
Plainville, KS 67663

Goetz #1-1

Job Ticket: 042953

DST#: 1

ATTN: Marc Downing

Test Start: 2011.12.20 @ 16:25:00

GENERAL INFORMATION:

Formation: **LKC-C,D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:44:00

Time Test Ended: 23:48:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Kreuzer Jr.

Unit No: 36

Interval: 3642.00 ft (KB) To 3683.00 ft (KB) (TVD)

Reference Elevations: 2376.00 ft (KB)

Total Depth: 3683.00 ft (KB) (TVD)

2371.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8320 Outside

Press @ Run Depth: 696.40 psig @ 3647.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.12.20

End Date:

2011.12.20

Last Calib.:

2011.12.20

Start Time: 16:25:05

End Time:

23:47:59

Time On Btm:

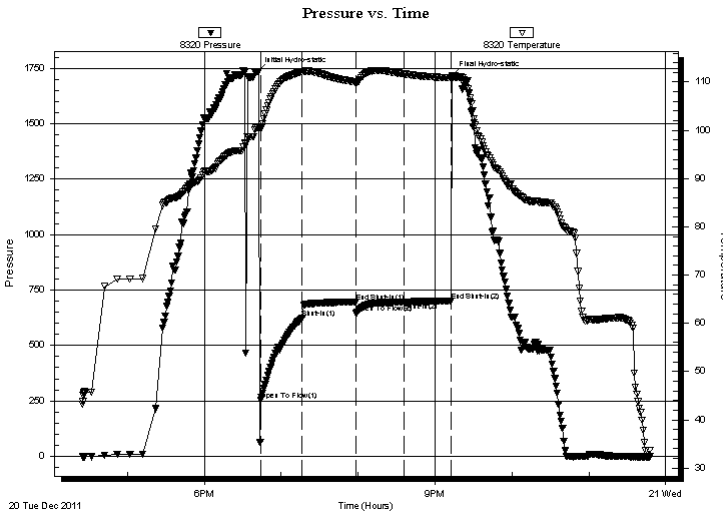
2011.12.20 @ 18:41:30

Time Off Btm:

2011.12.20 @ 21:13:30

TEST COMMENT: IF: Strong blow, Built to B.O.B in 1 1/2 mins.
IS: No blow back over 45 mins.
FF: Strong blow, Built to B.O.B in 2 1/2 mins.
FS: No blow back over 45 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1735.72	100.56	Initial Hydro-static
3	251.62	100.43	Open To Flow (1)
35	623.52	112.15	Shut-In(1)
77	696.58	109.99	End Shut-In(1)
77	643.86	109.97	Open To Flow (2)
114	696.40	111.68	Shut-In(2)
151	699.68	110.85	End Shut-In(2)
152	1716.79	110.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1550.00	vsmc-5% m95%w	21.74

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc.

1-7s-23w Graham,KS

PO Box 86
Plainville, KS 67663

Goetz #1-1

Job Ticket: 042953

DST#: 1

ATTN: Marc Downing

Test Start: 2011.12.20 @ 16:25:00

Tool Information

Drill Pipe:	Length: 3652.00 ft	Diameter: 3.80 inches	Volume: 51.23 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 51.23 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3642.00 ft			Final 60000.00 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
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Shut In Tool	5.00			3627.00	
Hydraulic tool	5.00			3632.00	
Packer	5.00			3637.00	20.00 Bottom Of Top Packer
Packer	5.00			3642.00	
Stubb	1.00			3643.00	
Perforations	3.00			3646.00	
Change Over Sub	1.00			3647.00	
Recorder	0.00	8366	Inside	3647.00	
Recorder	0.00	8320	Outside	3647.00	
Blank Spacing	31.00			3678.00	
Change Over Sub	1.00			3679.00	
Perforations	1.00			3680.00	
Bullnose	3.00			3683.00	41.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc.

1-7s-23w Graham,KS

PO Box 86
Plainville, KS 67663

Goetz #1-1

Job Ticket: 042953

DST#: 1

ATTN: Marc Downing

Test Start: 2011.12.20 @ 16:25:00

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: bbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 1300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1550.00	vsmc-5% m 95%w	21.742

Total Length: 1550.00 ft Total Volume: 21.742 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

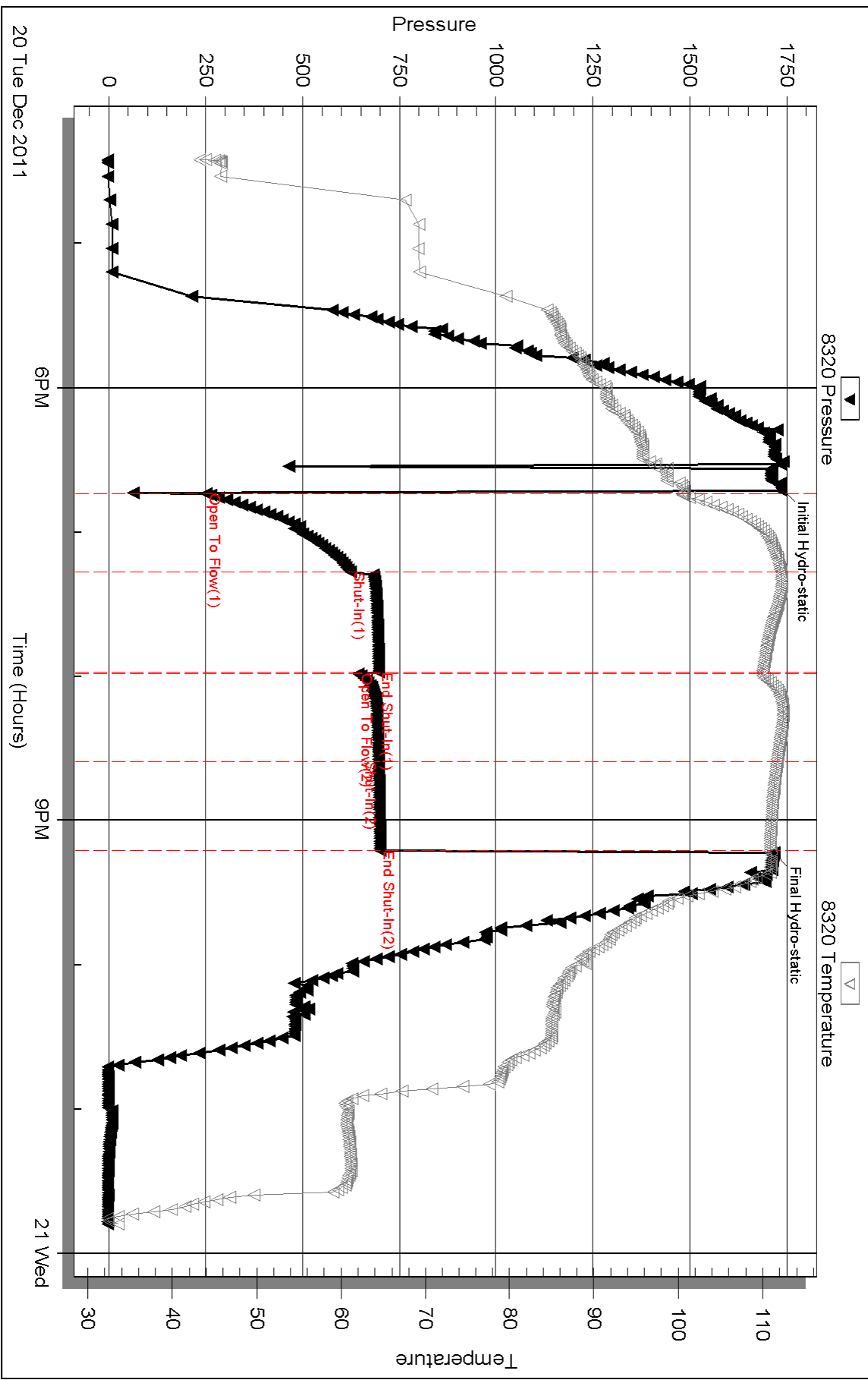
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

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

PO Box 86
Plainville, KS 67663

ATTN: Marc Downing

Goetz #1-1

1-7s-23w Graham,KS

Start Date: 2011.12.21 @ 09:35:00

End Date: 2011.12.21 @ 14:51:00

Job Ticket #: 042954 DST #: 2

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

Printed: 2011.12.29 @ 10:02:58

H&C Oil Operating Inc.
1-7s-23w Graham,KS
Goetz #1-1
DST # 2
LKC-H
2011.12.21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating Inc.

1-7s-23w Graham,KS

PO Box 86
Plainville, KS 67663

Goetz #1-1

Job Ticket: 042954

DST#: 2

ATTN: Marc Downing

Test Start: 2011.12.21 @ 09:35:00

GENERAL INFORMATION:

Formation: **LKC-H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:17:30

Time Test Ended: 14:51:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr./K

Unit No: 36

Interval: 3724.00 ft (KB) To 3760.00 ft (KB) (TVD)

Reference Elevations: 2376.00 ft (KB)

Total Depth: 3760.00 ft (KB) (TVD)

2371.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8320 Outside

Press @ Run Depth: 15.09 psig @ 3726.50 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.12.21

End Date: 2011.12.21

Last Calib.: 2011.12.21

Start Time: 09:35:05

End Time: 14:50:59

Time On Btm: 2011.12.21 @ 11:16:30

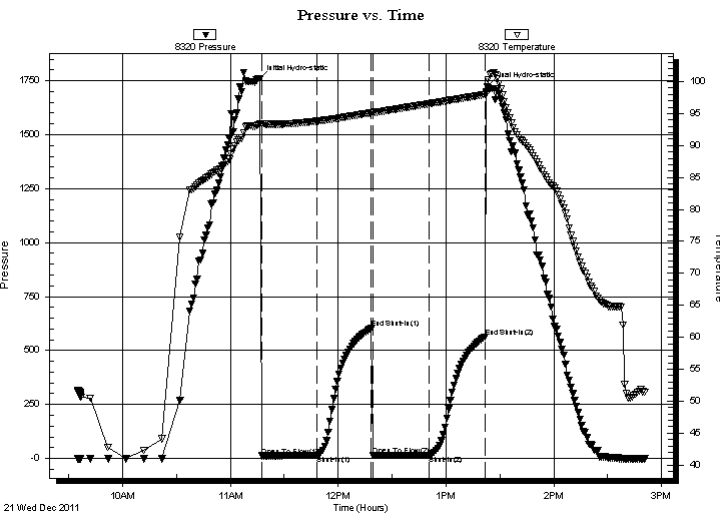
Time Off Btm: 2011.12.21 @ 13:23:00

TEST COMMENT: IF: Weak blow, Built to weak surface over 30 mins.

IS: No blow back over 30 mins.

FF: No blow over 30 mins

FS: No blow back over 30 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1757.46	93.45	Initial Hydro-static
1	11.66	93.41	Open To Flow (1)
32	13.05	93.81	Shut-In(1)
62	602.94	95.13	End Shut-In(1)
63	13.69	95.11	Open To Flow (2)
94	15.09	96.52	Shut-In(2)
125	562.39	97.95	End Shut-In(2)
127	1721.47	99.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 100M (oil spots)	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 Operating Inc.

1-7s-23w Graham,KS

PO Box 86
Plainville, KS 67663

Goetz #1-1

Job Ticket: 042954

DST#: 2

ATTN: Marc Downing

Test Start: 2011.12.21 @ 09:35:00

Tool Information

Drill Pipe:	Length: 3716.00 ft	Diameter: 3.80 inches	Volume: 52.13 bbl	Tool Weight: 2000.00 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: 58000.00 lb
			<u>Total Volume: 52.13 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3724.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	56.00 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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Shut In Tool	5.00			3709.00	
Hydraulic tool	5.00			3714.00	
Packer	5.00			3719.00	20.00 Bottom Of Top Packer
Packer	5.00			3724.00	
Stubb	1.00			3725.00	
Perforations	1.00			3726.00	
Change Over Sub	0.50			3726.50	
Recorder	0.00	8366	Inside	3726.50	
Recorder	0.00	8320	Outside	3726.50	
Blank Spacing	29.00			3755.50	
Change Over Sub	0.50			3756.00	
Perforations	1.00			3757.00	
Bullnose	3.00			3760.00	36.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc.

1-7s-23w Graham,KS

PO Box 86
Plainville, KS 67663

Goetz #1-1

Job Ticket: 042954

DST#: 2

ATTN: Marc Downing

Test Start: 2011.12.21 @ 09:35:00

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.99 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OSM 100M(oil spots)	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

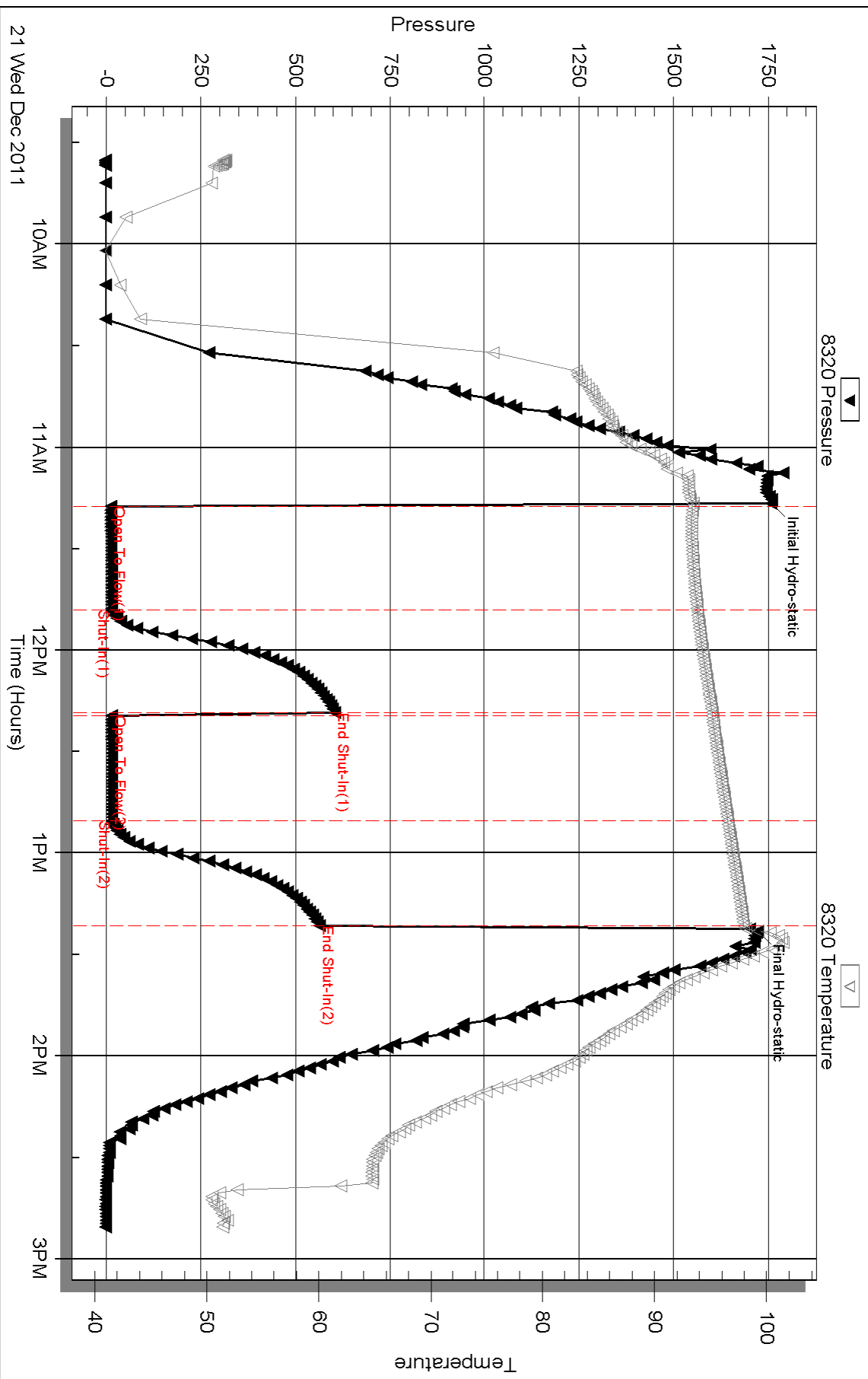
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

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

PO Box 86
Plainville, KS 67663

ATTN: Marc Downing

Goetz #1-1

1-7s-23w Graham,KS

Start Date: 2011.12.21 @ 22:20:00

End Date: 2011.12.22 @ 09:33:00

Job Ticket #: 042955 DST #: 3

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

Printed: 2011.12.29 @ 10:02:15



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating Inc.

1-7s-23w Graham,KS

PO Box 86
Plainville, KS 67663

Goetz #1-1

Job Ticket: 042955

DST#: 3

ATTN: Marc Downing

Test Start: 2011.12.21 @ 22:20:00

GENERAL INFORMATION:

Formation: **LKC-I,J,K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:21:00
 Time Test Ended: 09:33:00
 Interval: **3757.00 ft (KB) To 3803.00 ft (KB) (TVD)**
 Total Depth: 3803.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Kreuzer Jr.
 Unit No: 36
 Reference Elevations: 2376.00 ft (KB)
 2371.00 ft (CF)
 KB to GR/CF: 5.00 ft

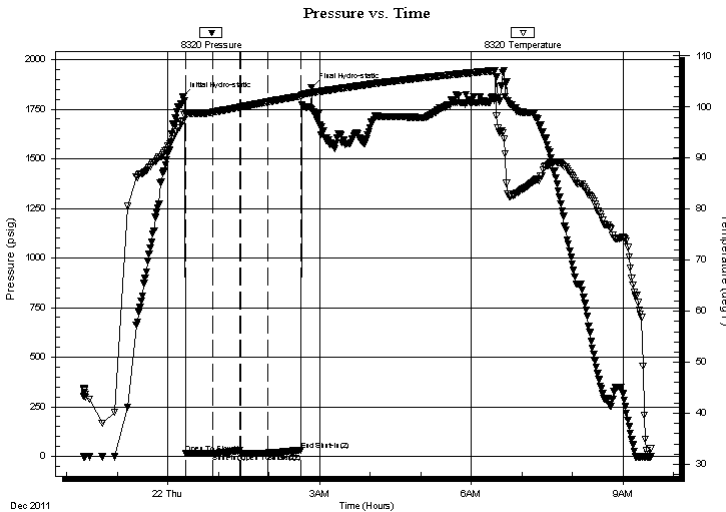
Serial #: 8320

Outside

Press@RunDepth: 17.27 psig @ 3767.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.12.21 End Date: 2011.12.22 Last Calib.: 2011.12.22
 Start Time: 22:20:05 End Time: 09:33:00 Time On Btm: 2011.12.22 @ 00:18:00
 Time Off Btm: 2011.12.22 @ 02:50:30

TEST COMMENT: IF: Weak blow, Surface over 30 mins.
 IS: No blow back over 30 mins.
 FF: No blow over 30 mins.
 FS: No blow back over 30 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1811.08	97.26	Initial Hydro-static
3	15.22	98.66	Open To Flow (1)
36	16.43	99.01	Shut-In(1)
68	30.75	99.99	End Shut-In(1)
69	16.18	100.01	Open To Flow (2)
101	17.27	101.04	Shut-In(2)
140	32.22	102.19	End Shut-In(2)
153	1858.60	102.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud-100%	0.07

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.

1-7s-23w Graham,KS

PO Box 86
Plainville, KS 67663

Goetz #1-1

Job Ticket: 042955

DST#: 3

ATTN: Marc Downing

Test Start: 2011.12.21 @ 22:20:00

Tool Information

Drill Pipe:	Length: 3747.00 ft	Diameter: 3.80 inches	Volume: 52.56 bbl	Tool Weight: 2000.00 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: 52.56 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3757.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	66.00 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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Shut In Tool	5.00			3742.00	
Hydraulic tool	5.00			3747.00	
Packer	5.00			3752.00	20.00 Bottom Of Top Packer
Packer	5.00			3757.00	
Stubb	1.00			3758.00	
Perforations	8.00			3766.00	
Change Over Sub	1.00			3767.00	
Recorder	0.00	8366	Inside	3767.00	
Recorder	0.00	8320	Outside	3767.00	
Blank Spacing	31.00			3798.00	
Change Over Sub	1.00			3799.00	
Perforations	1.00			3800.00	
Bullnose	3.00			3803.00	46.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc.

1-7s-23w Graham,KS

PO Box 86
Plainville, KS 67663

Goetz #1-1

Job Ticket: 042955

DST#: 3

ATTN: Marc Downing

Test Start: 2011.12.21 @ 22:20:00

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud-100%	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

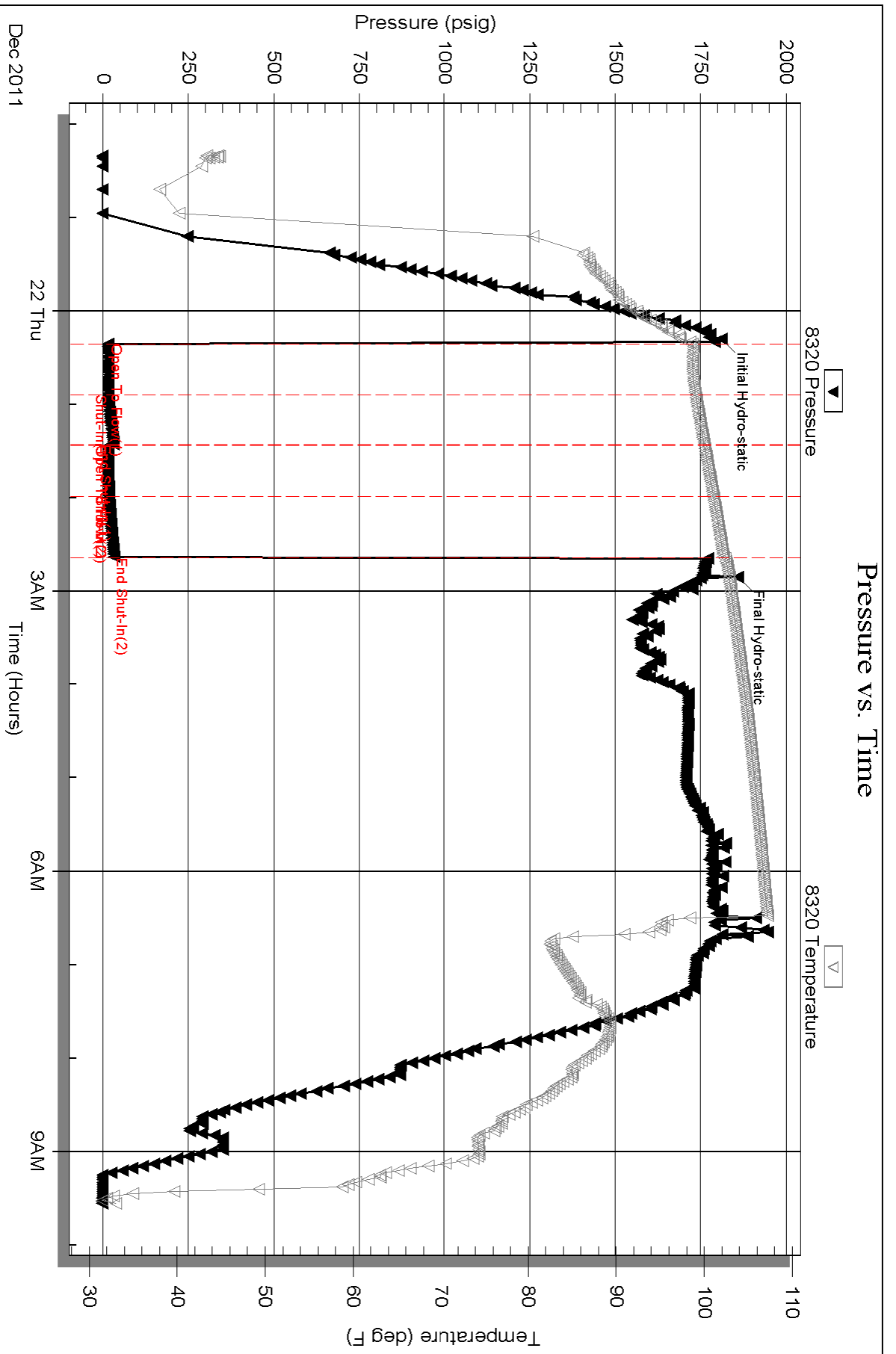
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
DEC 28 2011

Test Ticket

NO. 042953

4/10

BY: _____

Well Name & No. Goetz #1-1 Test No. 1 Date 12-20-11
 Company M&C oil operating INC Elevation 2376 KB 2371 GL
 Address P.O. Box 86 Plainville, Kansas 67663
 Co. Rep / Geo. Marc Downing Rig American Eagle #3
 Location: Sec. 1 Twp. 7S Rge. 23W Co. Graham State Ks

Interval Tested 3642 3683 Zone Tested LKC-G, D
 Anchor Length 41 Drill Pipe Run 3652 Mud Wt. 8.9
 Top Packer Depth 3637 Drill Collars Run -0- Vis 55
 Bottom Packer Depth 3642 Wt. Pipe Run -0- WL 6.4
 Total Depth 3683 Chlorides 1,300 ppm System LCM 1

Blow Description IF: Strong blow, Built to B.O.B in 1 1/2 mins.
ISI: No blow back over 45 mins
FF: Strong blow, Built to B.O.B in 2 1/2 mins.
FSD: No blow back over 45 mins.

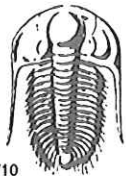
Rec	Feet of	%gas	%oil	%water	%mud
<u>1550</u>	<u>vs mch</u>			<u>95</u>	<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1550 BHT 110.8 Gravity 1125 API RW .1 @ 40 ° F Chlorides 10,000 ppm

(A) Initial Hydrostatic 1736 Test 1125 T-On Location 15:00
 (B) First Initial Flow 264 Jars T-Started 16:25
 (C) First Final Flow 508 Safety Joint T-Open 18:45
 (D) Initial Shut-In 624 Circ Sub T-Pulled 21:15
 (E) Second Initial Flow 678 Hourly Standby T-Out 23:45
 (F) Second Final Flow 697 Mileage 65x2 = 130x1.40 = 182 Comments _____
 (G) Final Shut-In 700 Sampler _____
 (H) Final Hydrostatic 1717 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total Ø
 Initial Shut-In 45 Day Standby _____ Total 1307
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1307

Approved By _____ Our Representative Philly m

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

RECEIVED
DEC 28 2011

Test Ticket

NO. 042954

4/10

BY: _____

Well Name & No. Goetz #1-1 Test No. 2 Date 12-21-11
 Company H&C Oil Operating Inc. Elevation 2376 KB 2371 GL
 Address P.O. Box 86 Plainville, KS 67663
 Co. Rep / Geo. Marc Downing Rig American Eagle #3
 Location: Sec. 1 Twp. 7s Rge. 23w Co. Graham State Ks

Interval Tested 3724 3760 Zone Tested LKC-H
 Anchor Length 36 Drill Pipe Run 3716 Mud Wt. 9.0
 Top Packer Depth 3719 Drill Collars Run -0- Vis 50
 Bottom Packer Depth 3724 Wt. Pipe Run -0- WL 7.0
 Total Depth 3760 Chlorides 2000 ppm System LCM 1

Blow Description IF: Weak blow, Built to work surface over 30mins

ISI: No blow back over 30 mins

FF: No blow over 30 mins

FSI: No blow back over 30mins

Rec	Feet of	%gas (spots)	%oil	%water	%mud
<u>5</u>	<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	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 98° Gravity - API RW - @ - ° F Chlorides - ppm

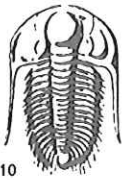
(A) Initial Hydrostatic 1757 Test 1125- T-On Location 9:15 AM
 (B) First Initial Flow 11 Jars T-Started 9:35 AM
 (C) First Final Flow 13 Safety Joint T-Open 11:20 AM
 (D) Initial Shut-In 602 Circ Sub N/C T-Pulled 1:20 PM
 (E) Second Initial Flow 13 Hourly Standby T-Out 2:50 PM
 (F) Second Final Flow 15 Mileage 65x2 = 130x1.40 = 182- Comments _____
 (G) Final Shut-In 562 Sampler _____
 (H) Final Hydrostatic 1721 Straddle _____
 Shale Packer _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____

Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1307-
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1307-

Approved By _____ Our Representative Chuck Pappas

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.

Handwritten signatures and notes:
Kevin 50% split test
50%



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
DEC 28 2011

Test Ticket

NO. 042955

4/10

BY: _____

Well Name & No. Goltz #1-1 Test No. 3 Date 12-22-2011
 Company H&C Oil Operating Inc. Elevation 2376 KB 2371 GL
 Address P.O. Box 86 Plainville, KS 67663
 Co. Rep / Geo. Marz Downing Rig American Eagle #3
 Location: Sec. 1 Twp. 7S Rge. 23W Co. Graham State KS

Interval Tested 3757 3803 Zone Tested LKC-ISK
 Anchor Length 46 Drill Pipe Run 3747 Mud Wt. 9.0
 Top Packer Depth 3752 Drill Collars Run -0- Vis 50
 Bottom Packer Depth 3757 Wt. Pipe Run -0- WL 70
 Total Depth 3803 Chlorides 2000 ppm System LCM 1

Blow Description IF: weak blow, Built to surface over 30mins
ISI: NO blow back over 30 mins
FF: No blow over 30 mins.
FSI: No blow back over 30mins.

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 _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1811 Test 1125 T-On Location 22:00
 (B) First Initial Flow 15 Jars _____ T-Started 22:20
 (C) First Final Flow 16 Safety Joint _____ T-Open :21
 (D) Initial Shut-In 31 Circ Sub _____ T-Pulled 2:30
 (E) Second Initial Flow 16 Hourly Standby _____ T-Out 9:33
 (F) Second Final Flow 17 Mileage 130 RT 182 Comments Came out of Hole at
 (G) Final Shut-In 32 Sampler _____ 2:30 at 4:00 laid down tool,
 (H) Final Hydrostatic 1859 Straddle _____ A joint of pipe and Bullnose missing trip in
 Ruined Shale Packer scrapped on, came out, Done at 9:33
 Ruined Packer _____
 Extra Copies _____
 Initial Open 36 Extra Recorder _____ Sub Total _____
 Initial Shut-In 30 Day Standby _____ Total _____
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1307

Approved By _____ Our Representative [Signature]

TriLOBITE TESTING Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

January 09, 2012

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

Re: ACO1
API 15-065-23787-00-00
Goetz 1-1
NW/4 Sec.01-07S-23W
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

ALLIED CEMENTING CO., LLC. 036144

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Dakota ks

DATE	SEC.	TWP.	RANGE	ON LOCATION	JOB START	JOB FINISH
12-16-11	1	7	23	1.00am	2.30am	3.00am
LEASE	WELL #	LOCATION		COUNTY	STATE	
Goetz	1-1	Hill City 80, 14E		Graham	KS	
OLD OR NEW (Circle one) <u>58 w/ info</u>						

CONTRACTOR American Eagle OWNER Same

TYPE OF JOB Sept 0cc

HOLE SIZE 12 1/4" T.D. 2271

CASING SIZE 8 7/8 DEPTH 2271

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15'

PERFS. _____

DISPLACEMENT 17.03 661

CEMENT AMOUNT ORDERED 1705kg cement 320cc 2 bags

COMMON 170 561 @ 16.25 2762.50

POZMIX _____ @ _____

GEL 35K @ 21.25 637.5

CHLORIDE 6 5K @ 58.20 349.20

ASC _____ @ _____

EQUIPMENT

PUMP/TRUCK CEMENTER hokue

431 HELPER Darren

BULK TRUCK _____

347 DRIVER Deme

BULK TRUCK _____

_____ DRIVER _____

REMARKS:

Mix 1705kg down approx

Displace with water

Cement did circulate

Frank YOH

HANDLING 1795kg @ 2.25 402.75

MILEAGE 1185 miles @ 118.70

TOTAL 4359.60

SERVICE

DEPTH OF JOB 277'

PUMP TRUCK CHARGE 1125.00

EXTRA FOOTAGE _____ @ _____

MILEAGE 60 @ 2.00 420.00

MANIFOLD Swedge @ 200

L.D. mileage 60 @ 4.00 240.00

TOTAL 1785.00

CHARGE TO: HxCoil Operating LLC

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS _____

PRINTED NAME _____

SIGNATURE Quynh Phien

To Allied Cementing Co., 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.

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. 553

Date	12-23-11	Sec.	1	Twp.	7	Range	23	County	Graham	State	KS	On Location		Finish	6:00 AM
Lease	Gretz	Well No.	1-1	Location	Hill City, KS - N to Y Rd, SE	Owner	STENO								
Contractor	American Eagle #3	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.													
Type Job	Plug	T.D.	3866'	Charge To	HAC										
Hole Size	7 7/8"	Depth		Street											
Csg.		Depth		City											
Tbg. Size	4 1/2" D.P.	Depth	2020'	State											
Tool		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.											
Cement Left in Csg.		Displace	H20/mud	Cement Amount Ordered 205 sx 60/40 40/60 40/60 40/60											
Meas Line		EQUIPMENT													
Pumptrk	1	Cemented	Caseo												
Bulktrk	10	Helper	Mike												
Driver		Driver	Rich												
Driver		JOB SERVICES & REMARKS													
Driver		Remarks: Cement did Circulate.													
Rat Hole		30 SX													
Mouse Hole		N/A													
Centralizers															
Baskets															
DN or Port Collar															
2020' - 25 SX															
1270' - 100 SX															
325' - 40 SX															
40' - 10 SX															
Bathole - 30 SX															
205 sx 60/40 40/60 40/60				FLOAT EQUIPMENT											
				Guide Shoe											
				Centralizer											
				Baskets											
				AFU Inserts											
				Float Shoe											
				Latch Down											
				1 - Dry hole plug											
				Pumptrk Charge plug											
				Mileage 42											
				Tax											
				Discount											
				Total Charge											
Signature: <i>Donald Patrick</i>															

