



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1156088
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: _____



1156088

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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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 22, 2013

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

Re: ACO1
API 15-065-23966-00-00
GBM Unit 29-1
SW/4 Sec.29-07S-24W
Graham County, Kansas

Dear Production Department:

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

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

Respectfully,
Charles Ramsay

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. 7443

Date 8-10-13	Sec. 29	Twp. 7	Range 24	County Graham	State KS	On Location	Finish 6:30AM
Lease GBM Unit		Well No. 29-1		Location Penokee and 24 Hwy 3W, 3N, E n 2			
Contractor American Eagle 2 To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.							
Type Job Surface							
Hole Size 12 1/4	T.D. 265						
Csg. 8 5/8	Depth 264						
Tbg. Size	Depth						
Tool	Depth						
Cement Left in Csg. 20	Shoe Joint 20						
Meas Line	Displace 15 1/2 bbl						
EQUIPMENT							
Pumptrk 5	No. Cementer						
	Helper Matt						
Bulktrk 12	No. Driver						
	Driver Chad						
Bulktrk P4	No. Driver						
	Driver Travis						
JOB SERVICES & REMARKS							
Remarks: Cement did circulate							
Rat Hole							
Mouse Hole							
Centralizers							
Baskets							
D/V or Port Collar							
FLOAT EQUIPMENT							
Handling 179							
Mileage							
Guide Shoe							
Centralizer							
Baskets							
AFU Inserts							
Float Shoe							
Latch Down							
Quality Oilwell Cementing							
Pumptrk Charge Surface							
Mileage \$22.28							
							Tax
							Discount
							Total Charge
Signature: <i>Bradford Bush</i>							

QUALITY CILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

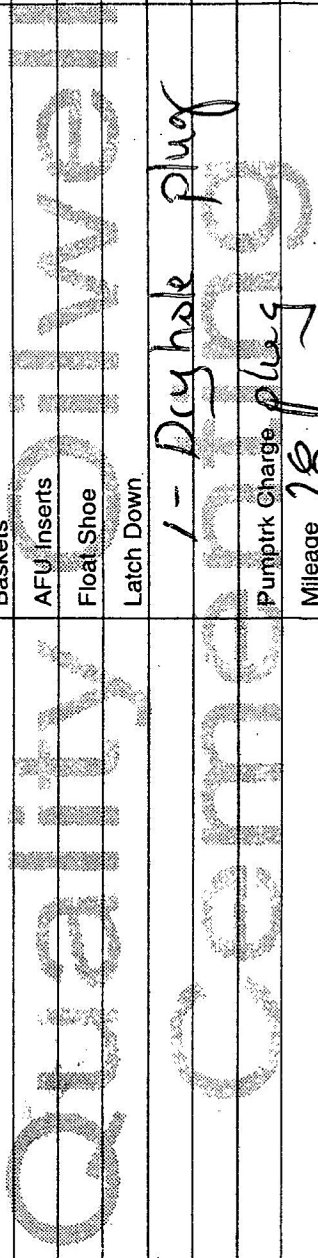
7754

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

No.

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

Date	8-18-83	Sec	29	Twp	7	Range	24	County	Graham	State	Ks	On Location		Finish	10:00 PM	
Lease	G B M Unit															
Well No.	29-1															
Contractor	American Eagle #2															
Type Job	Plug															
Hole Size	7 7/8"															
T.D.	4030'															
Depth	2200'															
Depth																
Shoe Joint																
Displace	H2O / Mud															
EQUIPMENT																
Pumptrk	16	No.	Cement Helper	Billy												
Bulktrk	13	No.	Driver	David												
Bulktrk	16	No.	Driver	Rick												
JOB SERVICES & REMARKS																
Remarks:	2200' - 25.5x															
Rat Hole																
Mouse Hole	1340' - 100 5x															
Centralizers																
Baskets	300' - 40 5x															
DV or Port Collar																
Handling	40' - 10 5x w/plug															
Mileage	212															
Guide Shoe	FLOAT EQUIPMENT															
Centralizer																
Baskets																
AFU inserts																
Float Shoe																
Latch Down																
Mileage	1 - Dryhse plug															
Pumptrk Charge	plug															
Mileage	28															
Tax																
Discount																
Total Charge																
Signature	Buckford Kubal															





DRILL STEM TEST REPORT

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

PO Box 86
Plainville KS 67663

ATTN: Marc Downing

GBM Unit #29-1

29-7s-24w Graham,KS

Start Date: 2013.08.15 @ 21:50:15

End Date: 2013.08.16 @ 07:39:15

Job Ticket #: 54388 DST #: 1

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

Printed: 2013.08.21 @ 09:18:58

H&C Oil Operating
29-7s-24w Graham,KS
GBM Unit #29-1
DST # 1
LKC E&F
2013.08.15



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

H&C Oil Operating

29-7s-24w Graham,KS

PO Box 86
Plainville KS 67663

GBM Unit #29-1

ATTN: Marc Downing

Job Ticket: 54388

DST#: 1

Test Start: 2013.08.15 @ 21:50:15

GENERAL INFORMATION:

Formation: **LKC E&F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:50:35

Time Test Ended: 07:39:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 41

Interval: 3835.00 ft (KB) To 3858.00 ft (KB) (TVD)

Reference Elevations: 2482.00 ft (KB)

Total Depth: 3858.00 ft (KB) (TVD)

2475.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8322 Outside

Press @ Run Depth: 73.50 psig @ 3840.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.15

End Date:

2013.08.16

Last Calib.:

2013.08.16

Start Time: 21:50:16

End Time:

07:39:15

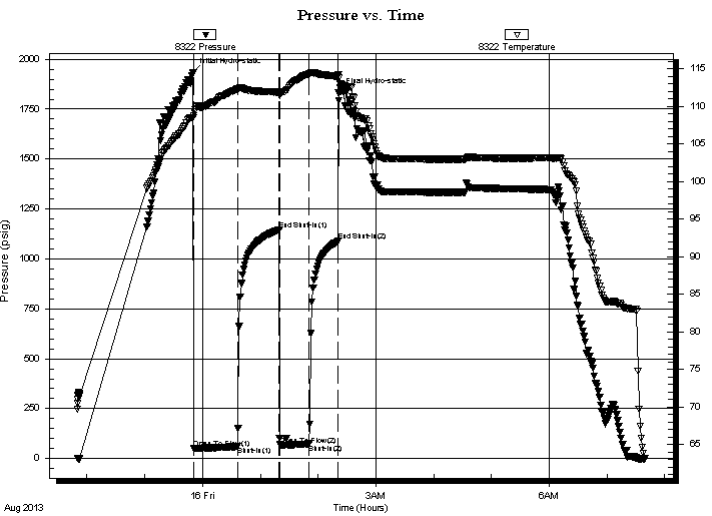
Time On Btm:

2013.08.15 @ 23:50:05

Time Off Btm:

2013.08.16 @ 02:21:15

TEST COMMENT: Slid 10 feet to bottom Fair surface blow built to 5"
Dead no blow back
Dead no blow Flushed tool w eaksurface blow
Dead no blow back



PRESSURE SUMMARY

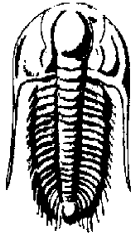
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1934.24	108.44	Initial Hydro-static
1	51.43	108.76	Open To Flow (1)
47	60.04	112.26	Shut-In(1)
90	1145.15	111.90	End Shut-In(1)
90	69.29	111.56	Open To Flow (2)
121	73.50	114.34	Shut-In(2)
151	1089.21	113.98	End Shut-In(2)
152	1831.12	114.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	100%M with few oil spots	1.68

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H&C Oil Operating

29-7s-24w Graham,KS

PO Box 86
Plainville KS 67663

GBM Unit #29-1

ATTN: Marc Downing

Job Ticket: 54388

DST#: 1

Test Start: 2013.08.15 @ 21:50:15

GENERAL INFORMATION:

Formation: **LKC E&F**

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 23:50:35

Tester: Tate Lang

Time Test Ended: 07:39:15

Unit No: 41

Interval: **3835.00 ft (KB) To 3858.00 ft (KB) (TVD)**

Reference Elevations: 2482.00 ft (KB)

Total Depth: 3858.00 ft (KB) (TVD)

2475.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 6752

Inside

Press @ Run Depth: psig @ 3840.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.15 End Date: 2013.08.16

Last Calib.: 2013.08.15

Start Time: 21:50:58 End Time: 07:40:16

Time On Btm:

Time Off Btm:

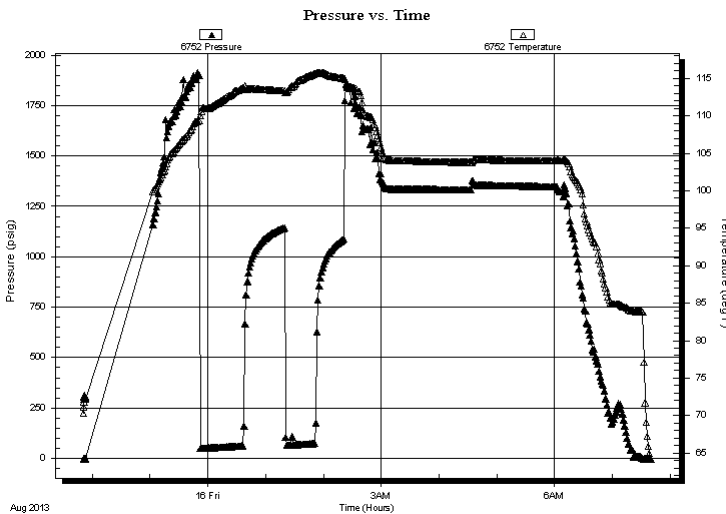
TEST COMMENT: Slid 10 feet to bottom Fair surface blow built to 5"

Dead no blow back

Dead no blow Flushed tool w eaksurface blow

Dead no blow back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	100%M with few oil spots	1.68

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating

29-7s-24w Graham,KS

PO Box 86
Plainville KS 67663

GBM Unit #29-1

Job Ticket: 54388

DST#: 1

ATTN: Marc Downing

Test Start: 2013.08.15 @ 21:50:15

Tool Information

Drill Pipe:	Length: 3836.00 ft	Diameter: 3.80 inches	Volume: 53.81 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: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 53.81 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3835.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3820.00	
Hydraulic tool	5.00			3825.00	
Packer	5.00			3830.00	20.00 Bottom Of Top Packer
Packer	5.00			3835.00	
Stubb	1.00			3836.00	
Perforations	4.00			3840.00	
Recorder	0.00	6752	Inside	3840.00	
Recorder	0.00	8322	Outside	3840.00	
Perforations	15.00			3855.00	
Bullnose	3.00			3858.00	23.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating

29-7s-24w Graham,KS

PO Box 86
Plainville KS 67663

GBM Unit #29-1

Job Ticket: 54388

DST#: 1

ATTN: Marc Downing

Test Start: 2013.08.15 @ 21:50:15

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	100%M with few oil spots	1.683

Total Length: 120.00 ft Total Volume: 1.683 bbl

Num Fluid Samples: 0

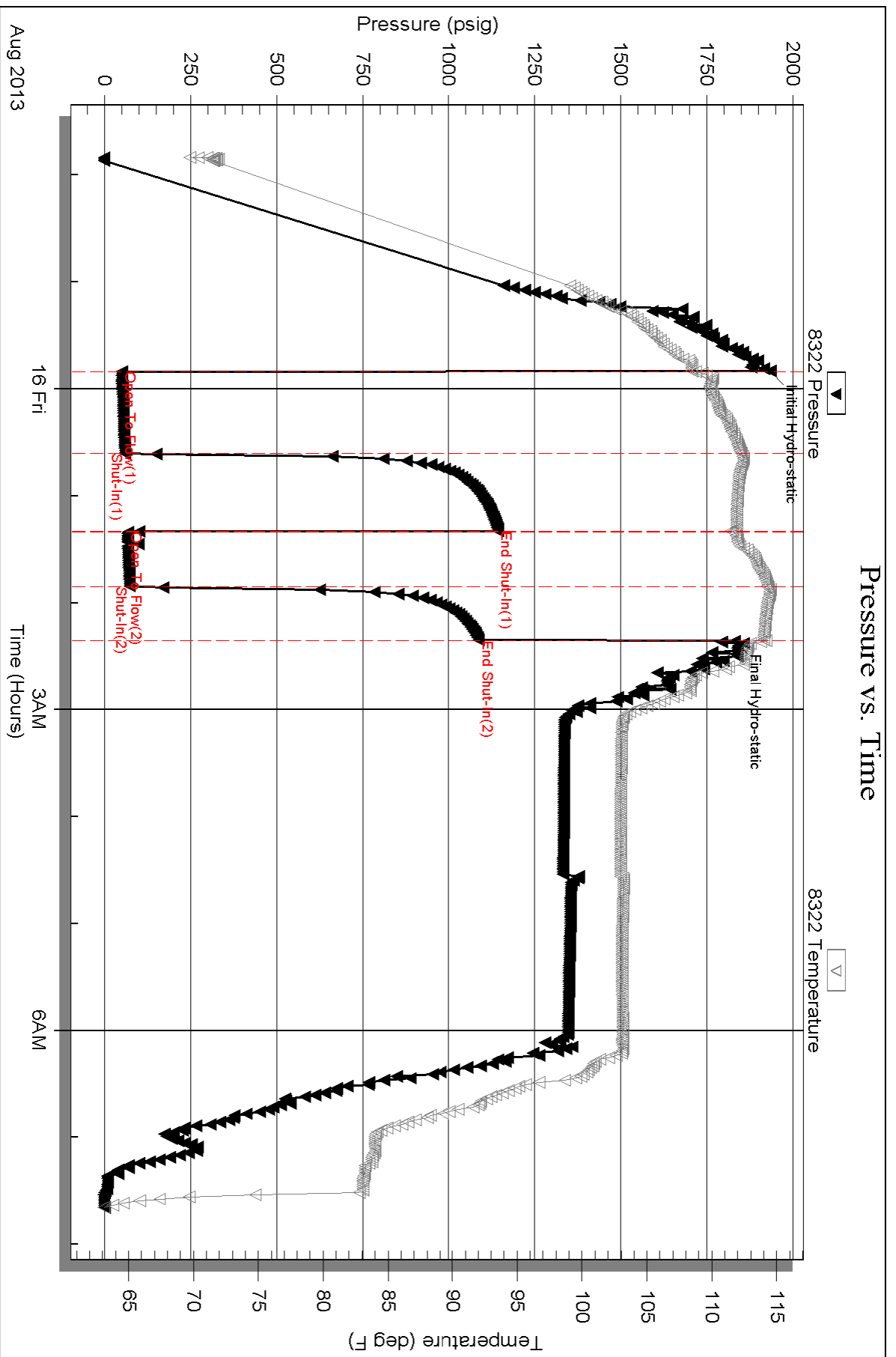
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



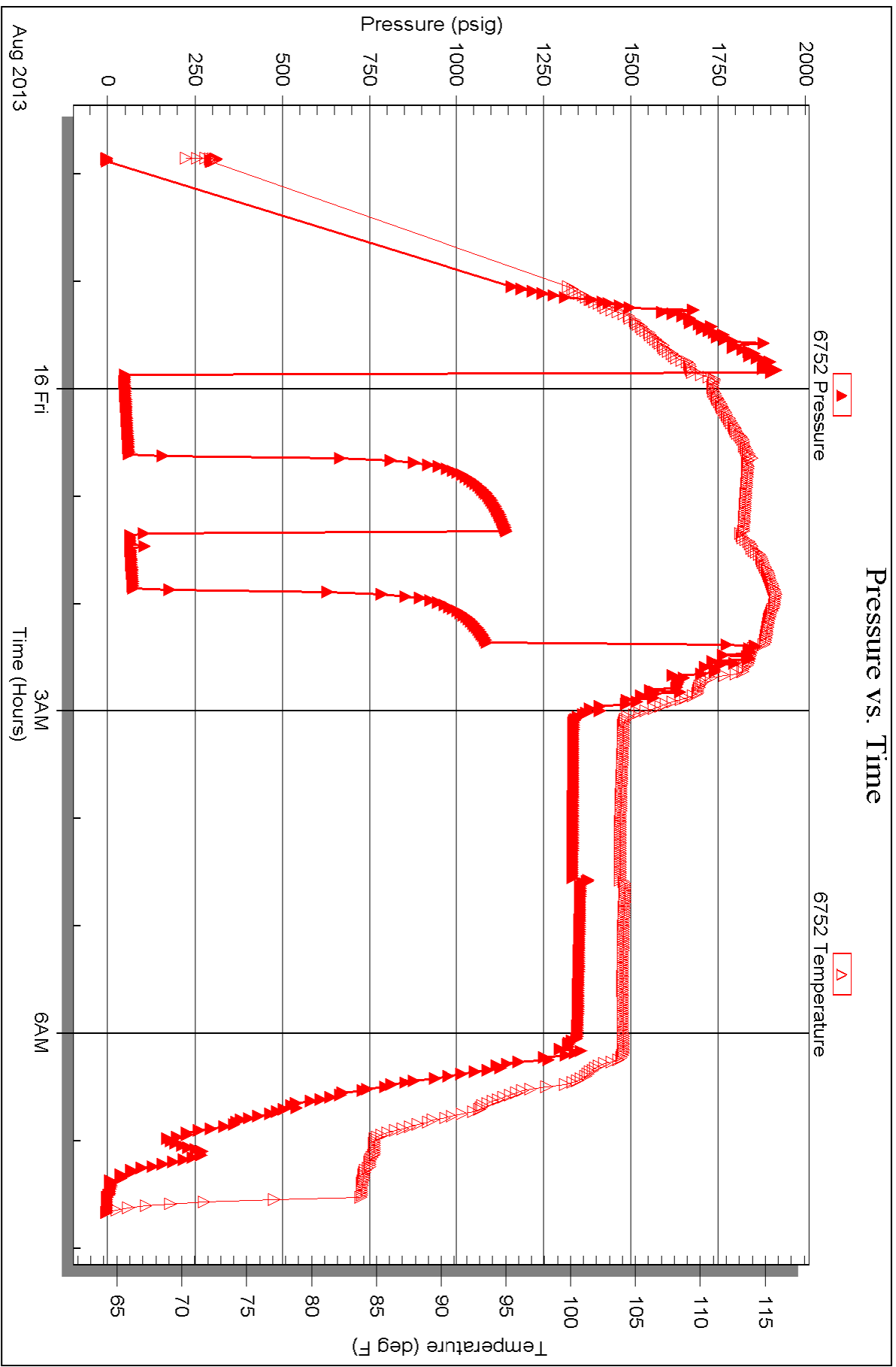
Serial #: 6752

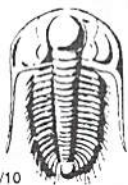
Inside

H&C Oil Operating

GBM Unit #29-1

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **54388**

410

Well Name & No. GBM Unit #29-1 Test No. ~~1~~ Date 8-15-13
 Company H&C Oil Operating Elevation 2482 KB 2475 GL
 Address PO Box 86 Plainville KS, 67663
 Co. Rep / Geo. Marc Downing Rig American Eagle #2
 Location: Sec. 29 Twp. 7 Rge. 24 Co. Graham State KS

Interval Tested 3835 3858 Zone Tested LHC F+F
 Anchor Length 23 Drill Pipe Run 3836 Mud Wt. 9.2
 Top Packer Depth 3831 Drill Collars Run 0 Vis 54
 Bottom Packer Depth 3835 Wt. Pipe Run 0 WL 7.4
 Total Depth 3858 Chlorides 1200 ppm System LCM 2#

Blow Description Slid 10' to bottom Fair surface blow built to 5 in
Dead no blow back
Dead no blow Flushed tool wear surface blow
Dead no ~~to~~ blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>120</u>	Feet of <u>mud with oil spots</u>				<u>100</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec Total <u>120</u>	BHT	Gravity	API RW	@	° F Chlorides ppm

- (A) Initial Hydrostatic 1934
- (B) First Initial Flow 51
- (C) First Final Flow 60
- (D) Initial Shut-In 1145
- (E) Second Initial Flow 69
- (F) Second Final Flow 74
- (G) Final Shut-In 1089
- (H) Final Hydrostatic 1831

- Test 1150
- Jars
- Safety Joint
- Circ Sub
- Hourly Standby ~~4:00~~ 4:05
- Mileage 150 RT 232.50
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder 1d 31.25h
- Day Standby Loaded tools
- Accessibility 14:30 on 8-18-13
- Sub Total 1782.50

- T-On Location 18:45
- T-Started 21:50
- T-Open 23:50
- T-Pulled 02:20
- T-Out 07:40 8-16-13
- Comments Work on DW while tripping out of hole + OWT
- Ruined Shale Packer
- Ruined Packer
- Extra Copies
- Sub Total 1600
- Total 3382.50
- MP/DST Disc't

Initial Open 45
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 30

Approved By _____ Our Representative *[Signature]* Thanks

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.

COMPANY Hec Oil Operations, Inc.
WELL G.B.M. Unit # 29-1
FIELD Libbeat

LOCATION 1650' FSL + 1160' FAL
SEC. 29 TWP. 7S RGE. 24W
COUNTY Graham
STATE Kansas

PRODUCTION DfA
ELEVATION DB 2482
DF 2475

OPERATOR Hec Oil Operations, Inc.
CONTRACTOR American Eagle
COMM. 4-11-13
COMP. 4-15-13

CASING RECORD
SURF: 536' @ 24" PROD: None
TOTAL DEPTH DRILLERS: 4030'
TOTAL DEPTH LOG: 4634'

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
Top Anhydrite	2170	2171	+4	+5
Base Anhydrite	2202	2202	+285	+5
Tapeka	3531	3532	-1650	NA
Heegner	3738	3739	-1256	+8
Taranta	3763	3763	-1283	+10
LKC	3779	3779	-1298	+11
BKC	3984	3985	-1552	+11

REFERENCE WELL FOR STRUCTURE Plans Oil Operations, Sec. 29-7S-24W
B-Morris #1 2772' FSL + 2587' FAL

DRILL STEM TESTS

No.	Interval	IFP/Time	SIP/Time	FFP/Time	SSIP/Time	HP-FRP	RECOVERY

REMARKS AND RECOMMENDATIONS: Due to poor sample shows, DST recovery + log evaluation, it was decided to plug + abandon this well.

When Done;

LEGEND

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

