



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1157737  
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
-----------------------------------	-----------------	---

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: \_\_\_\_\_



1157737

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	-------	---------	------------	---

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	H & C Oil Operating Inc.
Well Name	Benoit 22-1
Doc ID	1157737

Tops

Name	Top	Datum
Top Anhydrite	1573	+492
Base Anhydrite	1606	+459
Topeka	3031	-966
Heebner	3248	-1183
Toronto	3270	-1205
LKC	3286	-1221
BKC	3495	-1430
Marmaton	3546	-1481
Arbuckle	3610	-1545

# 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. 7365

Date	8-24-13	Sec.	22	Twp.	8	Range	21	County	Gravett	State	KS	On Location		Finish	4:15 PM
Lease	Benoit		Well No.		22-1		Location <u>Boysen 24</u> <u>W to 38002' 1/2 S</u>								
Contractor	American Energy														
Type Job	Surface														
Hole Size	12 1/4														
Csg.	8 5/8														
Tbg. Size	T.D. 22 1/4														
Tool	Depth 22 1/4														
	Depth														
	Depth														
Cement Left in Csg.	15														
Meas Line	Displace 138 L														
	EQUIPMENT														
Pumptrk	5	No.	Cement												
			Helper	Graig											
Bulktrk		No.	Driver	Chad											
Bulktrk	1	No.	Driver	Clayton											
			Driver												
JOB SERVICES & REMARKS															
Common	150														
Poz. Mix															
Gel.	3														
Calcium	5														
Hulls															
Salt															
Flowseal															
Kol-Seal															
Mud CLR	48														
CFL-117 or CD110 CAF	38														
Sand															
Handling	158														
Mileage															
Guide Shoe	FLOAT EQUIPMENT														
Centralizer															
Baskets															
AFU Inserts															
Float Shoe															
Latch Down															
Pumptrk Charge															
Mileage	41														
Tax															
Discount															
Total Charge															
X Signature	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. 7504

Date	9-3-13	Sec.	22	Twp.	8	Range	21	County	Graham	State	KS	On Location	Finish
Lease	Bendit												
Contractor	Americisen Eagle #3												
Type Job	Plug												
Hole Size	7 7/8												
Csg.	Drill Pipe												
Tbg. Size													
Tool													
Cement Left in Csg.													
Meas Line													
Well No.	22-1												
Location	Boyer 2E 380 RA'S BWS ENO												
Owner													
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.													
Charge To	H & C												
Street													
City													
The above was done to satisfaction and supervision of owner agent or contractor.													
Cement Amount Order	255 80/40 4% Gel 1/4 Flo												
<b>EQUIPMENT</b>													
Pumptrk	No.	Cementer											
	15	Helper	Wick										
Bulktrk	No.	Driver	Doug										
Bulktrk	No.	Driver	Brett										
<b>JOB SERVICES &amp; REMARKS</b>													
Remarks:													
Rat Hole	30 5X												
Mouse Hole	<del>5X</del>												
Centralizers													
Baskets													
D/V or Port Collar													
Handling	264												
Mileage	FLOAT EQUIPMENT												
Guide Shoe													
Centralizer													
Baskets													
AFU Inserts													
Float-Shoe													
Latch Down													
Pumptrk Charge	41 plug												
Mileage	41												
Tax													
Discount													
Total Charge													
X Signature													

COMPANY H+C Oil Operating, Inc.  
WELL Benoit # 22-1  
FIELD Wildcat

LOCATION J100 F5L + 9S1 F6L  
SEC. 22 TWP. 4S RGE. 21W

COUNTY Graham  
STATE Kansas

OPERATOR H+C Oil Operating, Inc.  
CONTRACTOR American Log, Log #3  
COMM: 8-5-13 COM: 9-3-13  
CASING RECORD None  
SURF: 89' @ 22S PRO: None  
TOTAL DEPTH DRILLERS: 3670'  
TOTAL DEPTH LOG: 3670'

PRODUCTION KB 2045  
ELEVATION DF 2058  
GL 2058

Drilling Measured From: h6  
Sampled From: 3000 to TD  
Drilling Time From: 2100 to TD  
Samples Examined From: 3000 to TD  
Geological Supervision From: None  
Wellsite Geologist: Marc Downing  
Electrical Survey: Pioneer  
CNC/COIL  
DLE  
MEL

FORMATION	SAMPLE TOP	ELECTRIC LOG DATUM	SUB-SEA POSITION	STRUCTURAL POSITION
Tag Anhydrite	15710	15713	+492	NA
Base Anhydrite	1665	1666	+459	NA
Tapoka	3027	3031	-946	F
Hebener	3245	3244	-1143	F
Tanoka	3248	3248	-1221	F
LKC	3282	3282	-1471	F
Mormaton	3491	3495	-1491	F
Arbuckle	3542	3546	-1545	F

REFERENCE WELL FOR STRUCTURE Schermerhorn Oil  
Newell #1 N14-N15-3E  
Sec. 22-8S-21W

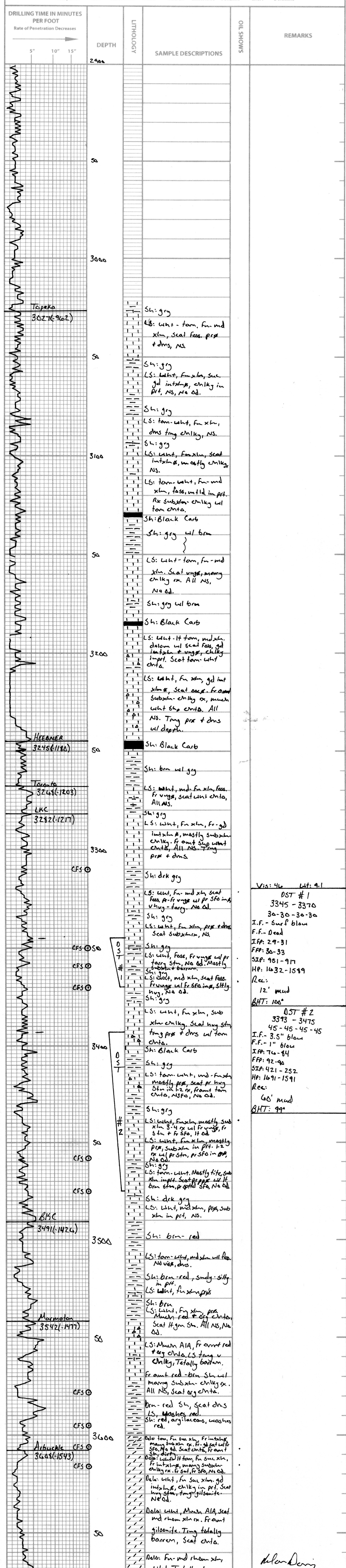
DRILL STEM TESTS

No.	Interval	1PT/Time	1SD/Time	FFP/Time	15SP/Time	HP/HP	RECOVERY

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

Marc Downing

LEGEND



Marc Downing



## DRILL STEM TEST REPORT

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

PO Box 86  
Plainville KS 67663

ATTN: Marc Downing

### **Benoit #22-1**

### **22-8s-21w Graham KS**

Start Date: 2013.08.29 @ 14:35:00

End Date: 2013.08.30 @ 00:16:00

Job Ticket #: 54452                      DST #: 1

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

Printed: 2013.09.04 @ 15:06:26



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

H&C Oil Operating

**22-8s-21w Graham KS**

PO Box 86  
Plainville KS 67663

**Benoit #22-1**

Job Ticket: 54452

**DST#: 1**

ATTN: Marc Downing

Test Start: 2013.08.29 @ 14:35:00

## GENERAL INFORMATION:

Formation: **LKC "E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:13:45

Time Test Ended: 00:16:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 53

**Interval: 3345.00 ft (KB) To 3370.00 ft (KB) (TVD)**

Reference Elevations: 2058.00 ft (KB)

Total Depth: 3370.00 ft (KB) (TVD)

2050.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6799**

**Inside**

Press @ Run Depth: 33.33 psig @ 3346.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.29

End Date:

2013.08.30

Last Calib.: 2013.08.30

Start Time: 14:35:05

End Time:

00:16:00

Time On Btm: 2013.08.29 @ 20:13:30

Time Off Btm: 2013.08.29 @ 22:15:15

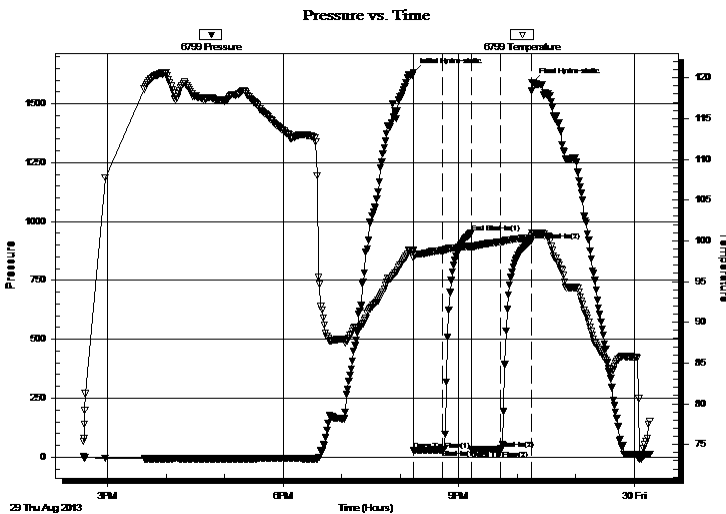
TEST COMMENT: 30 - IF- Surface blow

30 - IS- No return

30 - FF- No blow

30 - FS- No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1632.85	98.80	Initial Hydro-static
1	29.43	97.93	Open To Flow (1)
30	31.34	98.81	Shut-In(1)
60	951.95	99.33	End Shut-In(1)
60	30.95	99.16	Open To Flow (2)
90	33.33	99.88	Shut-In(2)
121	917.56	100.35	End Shut-In(2)
122	1589.98	100.95	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
12.00	Mud, 100%M	0.17

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H&C Oil Operating

**22-8s-21w Graham KS**

PO Box 86  
Plainville KS 67663

**Benoit #22-1**

Job Ticket: 54452

**DST#: 1**

ATTN: Marc Downing

Test Start: 2013.08.29 @ 14:35:00

## Tool Information

Drill Pipe:	Length: 3337.00 ft	Diameter: 3.80 inches	Volume: 46.81 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: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 34000.00 lb
			<u>Total Volume: 46.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3345.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			3325.00	
Shut In Tool	5.00			3330.00	
Hydraulic tool	5.00			3335.00	
Packer	5.00			3340.00	21.00 Bottom Of Top Packer
Packer	5.00			3345.00	
Stubb	1.00			3346.00	
Recorder	0.00	6799	Inside	3346.00	
Recorder	0.00	8648	Outside	3346.00	
Perforations	21.00			3367.00	
Bullnose	3.00			3370.00	25.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>46.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H&C Oil Operating

**22-8s-21w Graham KS**

PO Box 86  
Plainville KS 67663

**Benoit #22-1**

Job Ticket: 54452

**DST#: 1**

ATTN: Marc Downing

Test Start: 2013.08.29 @ 14:35:00

## 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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
12.00	Mud, 100%M	0.168

Total Length: 12.00 ft      Total Volume: 0.168 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6799

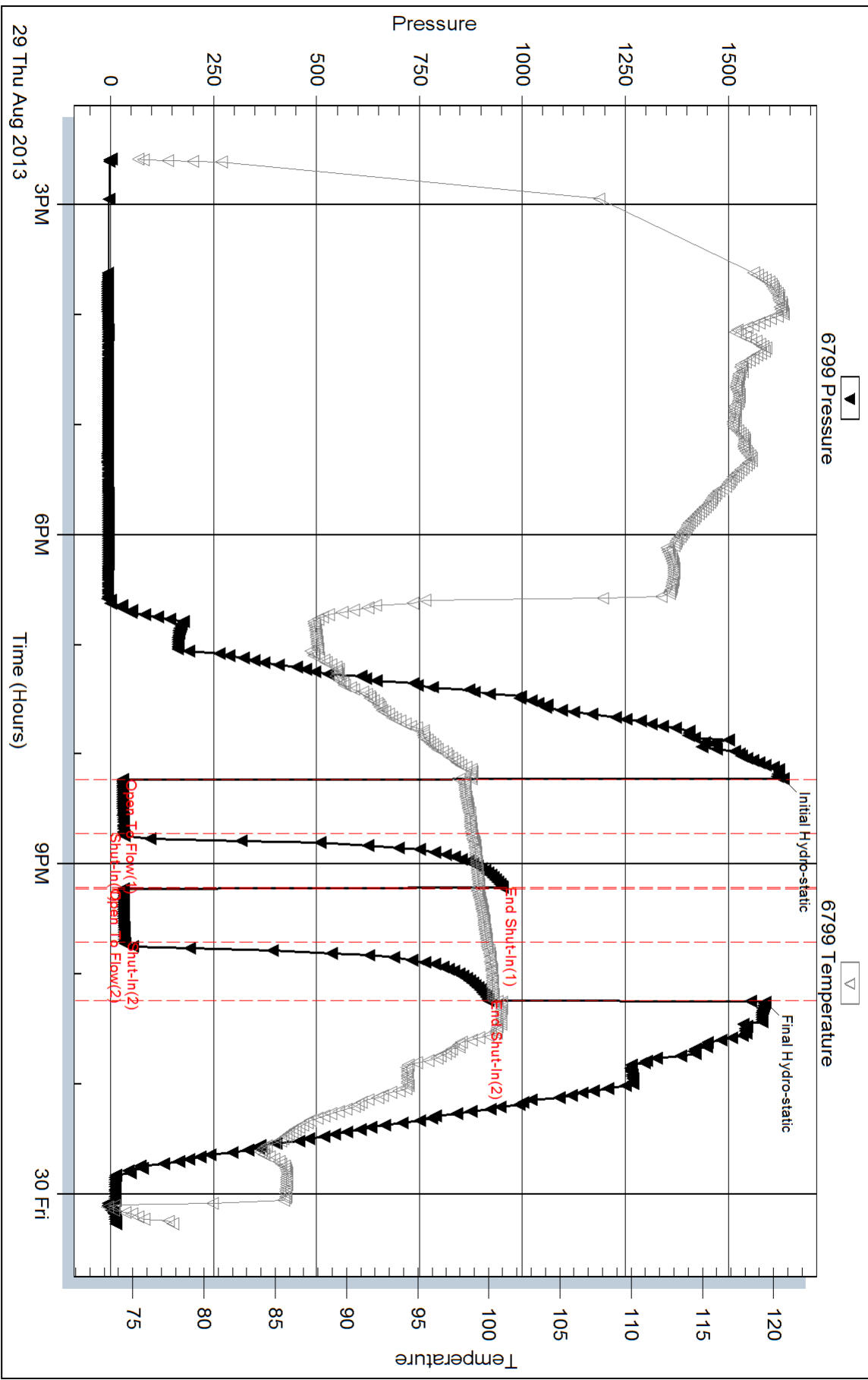
Inside

H&C Oil Operating

Berolt #22-1

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 54452

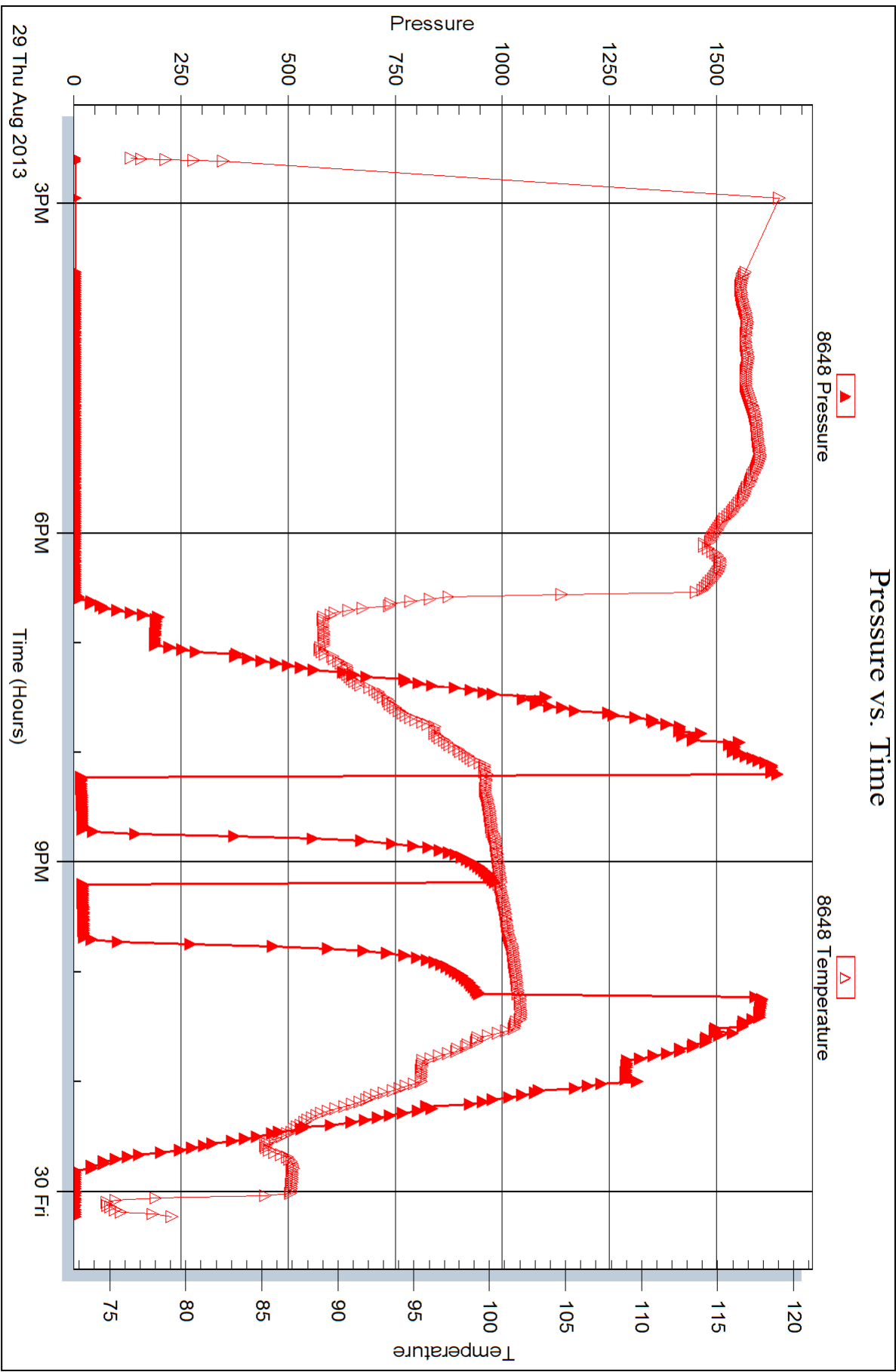
Printed: 2013.09.04 @ 15:06:28

Serial #: 8648

Outside H&C Oil Operating

Berolt #22-1

DST Test Number: 1





## DRILL STEM TEST REPORT

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

PO Box 86  
Plainville KS 67663

ATTN: Marc Downing

### **Benoit #22-1**

### **22-8s-21w Graham KS**

Start Date: 2013.09.01 @ 20:10:00

End Date: 2013.09.02 @ 03:58:32

Job Ticket #: 54453                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.09.04 @ 15:05:56



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

H&C Oil Operating

**22-8s-21w Graham KS**

PO Box 86  
Plainville KS 67663

**Benoit #22-1**

Job Ticket: 54453

**DST#: 2**

ATTN: Marc Downing

Test Start: 2013.09.01 @ 20:10:00

## GENERAL INFORMATION:

Formation: **LKC "H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:46:39

Time Test Ended: 03:58:32

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 53

**Interval: 3393.00 ft (KB) To 3475.00 ft (KB) (TVD)**

Reference Elevations: 2058.00 ft (KB)

Total Depth: 3475.00 ft (KB) (TVD)

2050.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6799**

**Inside**

Press @ Run Depth: 90.72 psig @ 3463.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.01

End Date:

2013.09.02

Last Calib.:

2013.09.02

Start Time: 20:10:01

End Time:

03:58:33

Time On Btm:

2013.09.01 @ 22:46:29

Time Off Btm:

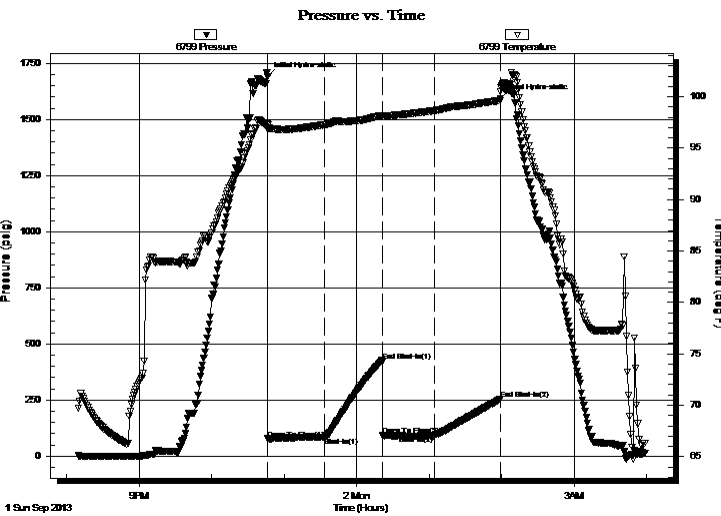
2013.09.02 @ 01:59:00

TEST COMMENT: 45 - IF- 3 1/2" blow

45 - IS- No return

45 - FF- 1" blow

45 - FS- No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1691.70	97.31	Initial Hydro-static
1	76.96	96.84	Open To Flow (1)
48	84.10	97.27	Shut-In(1)
95	421.04	98.20	End Shut-In(1)
95	92.64	98.07	Open To Flow (2)
138	90.72	98.64	Shut-In(2)
193	252.83	99.63	End Shut-In(2)
193	1591.75	100.48	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud, 100%M	0.84

\* 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

**22-8s-21w Graham KS**

PO Box 86  
Plainville KS 67663

**Benoit #22-1**

Job Ticket: 54453

**DST#: 2**

ATTN: Marc Downing

Test Start: 2013.09.01 @ 20:10:00

## Tool Information

Drill Pipe:	Length: 3400.00 ft	Diameter: 3.80 inches	Volume: 47.69 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: 34000.00 lb
			Total Volume: 47.69 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3393.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	103.00 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			3373.00	
Shut In Tool	5.00			3378.00	
Hydraulic tool	5.00			3383.00	
Packer	5.00			3388.00	21.00 Bottom Of Top Packer
Packer	5.00			3393.00	
Stubb	1.00			3394.00	
Perforations	5.00			3399.00	
Change Over Sub	1.00			3400.00	
Drill Pipe	62.00			3462.00	
Change Over Sub	1.00			3463.00	
Recorder	0.00	6799	Inside	3463.00	
Recorder	0.00	8648	Outside	3463.00	
Perforations	9.00			3472.00	
Bullnose	3.00			3475.00	82.00 Bottom Packers & Anchor

**Total Tool Length: 103.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H&C Oil Operating

**22-8s-21w Graham KS**

PO Box 86  
Plainville KS 67663

**Benoit #22-1**

Job Ticket: 54453

**DST#: 2**

ATTN: Marc Downing

Test Start: 2013.09.01 @ 20:10:00

## 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:

ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Mud, 100%M	0.842

Total Length: 60.00 ft      Total Volume: 0.842 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

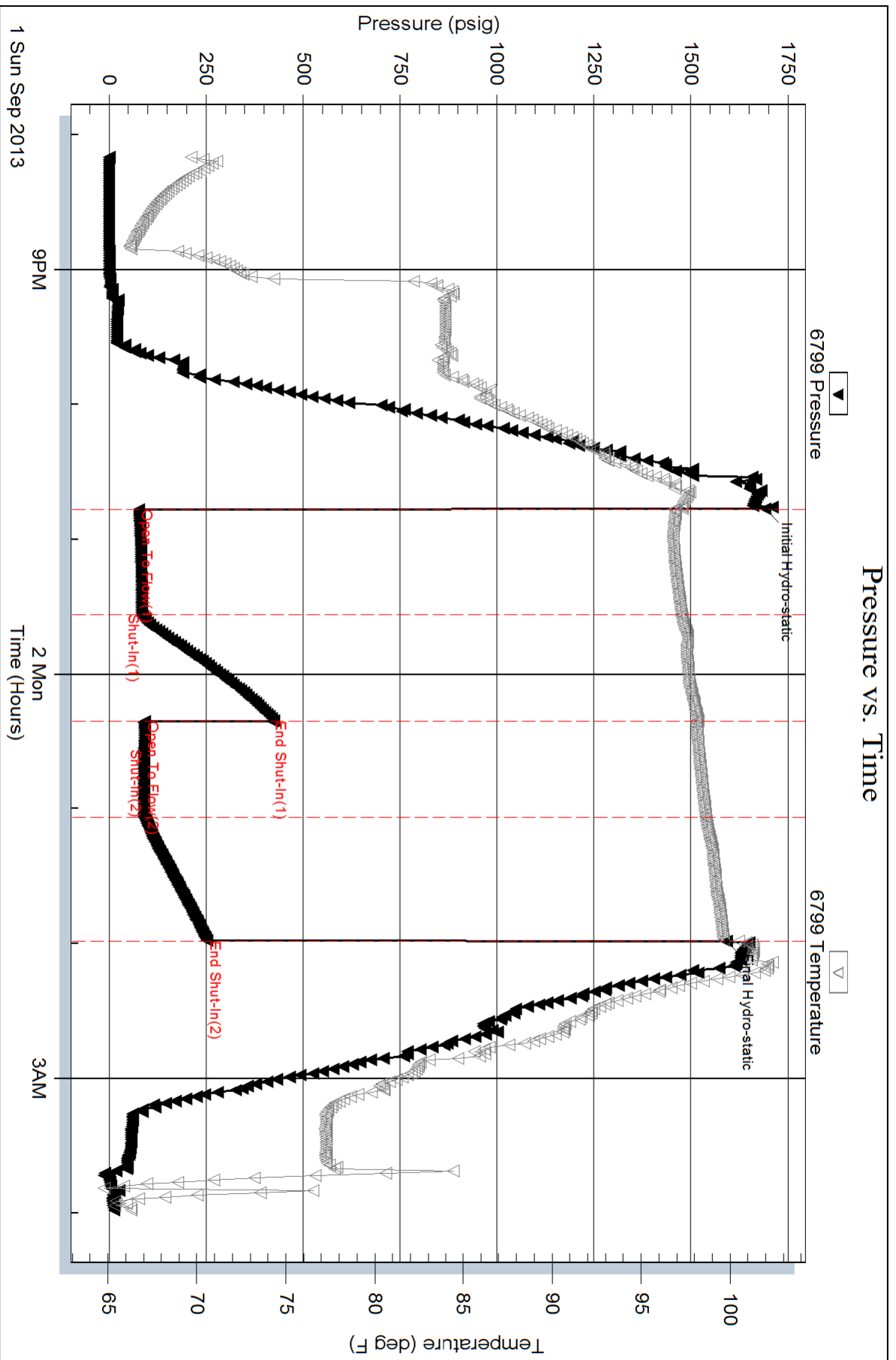
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

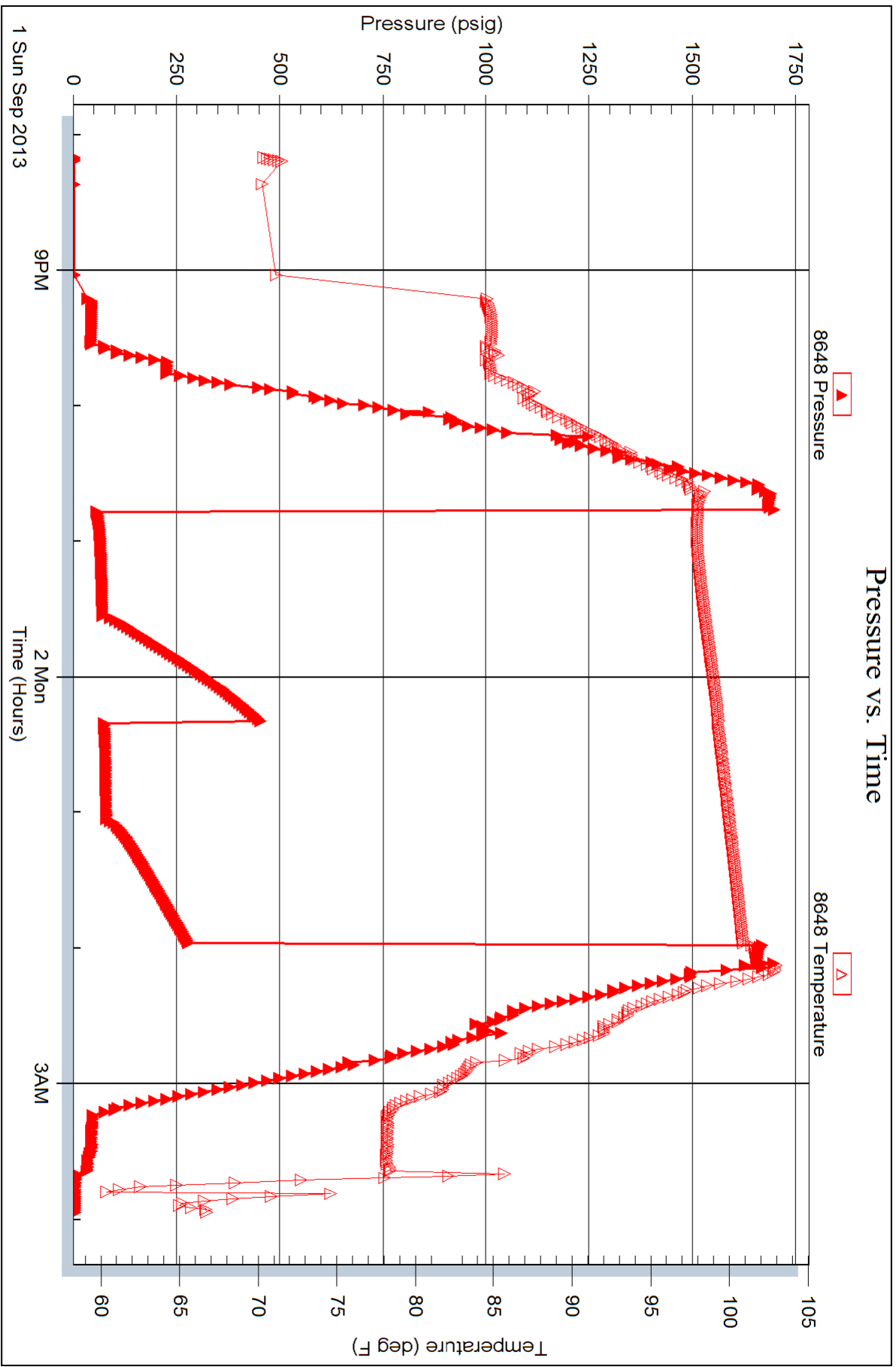


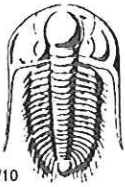
Serial #: 8648

Outside H&C Oil Operating

Berolt #22-1

DST Test Number: 2





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 54452

Well Name & No. Benoit 22-1 Test No. 1 Date 8-29-13  
 Company H & C Oil Operating Elevation 2058 KB 2050 GL  
 Address Po Box 86, Plainville KS, 67663  
 Co. Rep / Geo. Marc Downing Rig American Eagle #3  
 Location: Sec. 22 Twp. 8s Rge. 21w Co. Graham State KS

Interval Tested 3345 - 3370 Zone Tested "E & F"  
 Anchor Length 25' Drill Pipe Run 3337' Mud Wt. 9.1  
 Top Packer Depth 3340 Drill Collars Run - Vis 46  
 Bottom Packer Depth 3345 Wt. Pipe Run - WL 7.2  
 Total Depth 3370 Chlorides 700 ppm System LCM -

Blow Description IF - Surface blow  
ISI - No return  
FF - No blow  
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>12</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 Total 12' BHT 100° Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1632  Test 1150 T-On Location 2:03 pm  
 (B) First Initial Flow 29  Jars \_\_\_\_\_ T-Started 2:35 pm  
 (C) First Final Flow 31  Safety Joint \_\_\_\_\_ T-Open 8:14 pm  
 (D) Initial Shut-In 951  Circ Sub \_\_\_\_\_ T-Pulled 10:14 pm  
 (E) Second Initial Flow 30  Hourly Standby 1.25h 125 T-Out 12:16 am  
 (F) Second Final Flow 33  Mileage 101 RT 156.55 Comments \_\_\_\_\_  
 (G) Final Shut-In 917  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1589  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 36  
 Final Flow 30  
 Final Shut-In 30

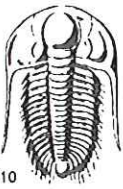
Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1431.55

Sub Total 0  
 Total 1431.55  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Cody [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.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 54454

Well Name & No. Benoit 22-1 Test No. 2 Date 9-1-13  
 Company H & C Oil Operating Elevation 2058 KB 2050 GL  
 Address Po Box 86, Plainville KS, 67663  
 Co. Rep / Geo. Marc Downing Rig American Eagle #3  
 Location: Sec. 22 Twp. 8S Rge. 2W Co. Graham State KS

Interval Tested 3393-3475 Zone Tested LKC "H-K"  
 Anchor Length 82' Drill Pipe Run 3400 Mud Wt. 9.2  
 Top Packer Depth 3388 Drill Collars Run — Vis 60  
 Bottom Packer Depth 3393 Wt. Pipe Run — WL 7.2  
 Total Depth 3475 Chlorides 700 ppm System LCM —  
 Blow Description IF - 3.5" blow  
ISI - No return  
FF - 1" blow  
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</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 60' BHT 99° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1691</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>7:30 pm</u>
(B) First Initial Flow <u>76</u>	<input type="checkbox"/> Jars	T-Started <u>8:10 pm</u>
(C) First Final Flow <u>84</u>	<input type="checkbox"/> Safety Joint	T-Open <u>10:50 pm</u>
(D) Initial Shut-In <u>421</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1:50 am</u>
(E) Second Initial Flow <u>92</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>4:00 am</u>
(F) Second Final Flow <u>90</u>	<input checked="" type="checkbox"/> Mileage <u>101 RT</u> 313.10	Comments <u>Loaded tools 9-3-13</u>
(G) Final Shut-In <u>252</u>	<input type="checkbox"/> Sampler	<u>@ 9:30 am</u>
(H) Final Hydrostatic <u>1591</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>45</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>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>2250</u>
Final Shut-In <u>45</u>	<input checked="" type="checkbox"/> Day Standby <u>1d 43.5h 1d 5.5h</u>	Total <u>3713.10</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1463.10</u>	

Approved By \_\_\_\_\_ Our Representative Cody B...

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  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

September 09, 2013

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

Re: ACO1  
API 15-065-23969-00-00  
Benoit 22-1  
SE/4 Sec.22-08S-21W  
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