Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1102165

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 # 31569
Name: Bach, Jason dba Bach Oil Production
Address 1: PO BOX 723
Address 2:
City: ALMA State: NE Zip: 68920 + 0723
Contact Person: Jason Bach
Phone: (308) 928-8920
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Bob Petersen
Purchaser: NA

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 #:

09/10/2012	09/15/2012	09/16/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-147-20690-00-00
Spot Description:
NE - NE - SW - SW Sec. 11 Twp. 1 S. R. 19 ☐ East ☑ West
1020 Feet from ☐ North / ☑ South Line of Section
1000 Feet from ☐ East / ☑ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Phillips
Lease Name: Krafft Well #: 1
Field Name:
Producing Formation: NA
Elevation: Ground: 2118 Kelly Bushing: 2123
Total Vertical Depth: 3618 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 234 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: 16500 ppm Fluid volume: 400 bbls
Dewatering method used: Evaporated

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: 12/27/2012
☑ **Confidential Release Date:** 12/27/2014
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 12/28/2012

1102165

Operator Name: Bach, Jason dba Bach Oil Production Lease Name: Krafft Well #: 1

Sec. 11 Twp. 1 S. R. 19 ☐ East ☑ West County: Phillips

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Dual Induction
Compensated Density
Micro

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	20	234	COM	170	3% Gel/2% CC

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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 *(Amount and Kind of Material Used)*	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: ☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)* _____

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Bach, Jason dba Bach Oil Production
Well Name	Krafft 1
Doc ID	1102165

Tops

Name	Top	Datum
Stone Corral	1762	+361
Base Stone Corral	1787	+336
Topeka	3117	-994
Heebner	3322	-1199
Toronto	3353	-1230
Lansing	3367	-1244
Muncie Creek	3477	-1354
Stark	3545	-1422
BKC	3585	-1462
RTD	3618	-1495

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

BACH OIL PRODUCTION

WELL: KRAFFT #1

LOC.: 1020' FSL & 1000' FWL
SEC. 11-1-19W
PHILLIPS COUNTY, KANSAS
API: 15-147-20690-00-00

DRILLING CONTR.: MURFIN RIG #8
SPUD: 09-10-12 COMP: 09-15-12
MUD UP: 2800' TYPE MUD: CHEM.
DRILL TIME: 3000 to' RTD
RTD: 3618' LTD: 3618'
SAMPLES SAVED: 3050'-RTD
GEOLOGIST: ROBERT J. PETERSEN

ELEVATION
KB: 2123
GL: 2118
LOG MEASURED
FROM: KB

SURFACE CASING
20# 8 5/8 "
Casing set @ 234
w/170 SX

PRODUCTION CASING
D&A

WELL LOG SURVEYS
DIL/CDL/MICRO

ELECTRIC LOG TOPS

FORMATION	DEPTH	DATUM	POS.
Stone Corral	1762	+361	-8
Base Stone Corral	1787	+336	-12
Topeka	3117	-994	-14
Heebner	3322	-1199	-16
Toronto	3353	-1230	-19
Lansing	3367	-1244	-15
Muncie Creek	3477	-1354	-15
Stark	3545	-1422	-17
BKC	3585	-1462	-13
RTD	3618	-1495	N/A

REFERENCE WELL:

Bach Oil Prod.
Jessup Unit #1
300' FSL & 790' FEL
11-1-19W

DAILY REPORT
@7:00 A.M.

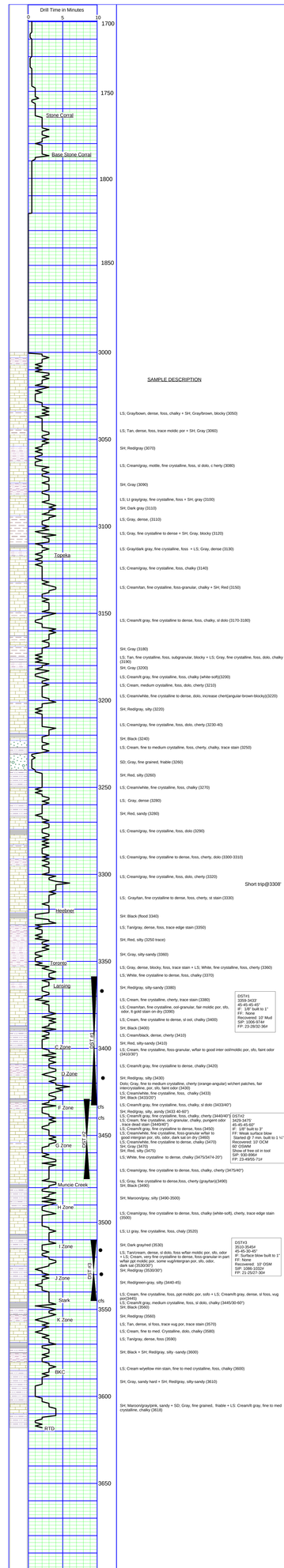
09-10-12 MIRU/SPUD
09-11-12 695' Drilling
09-12-12 2400' Drilling
09-13-12 3210' Short trip
09-14-12 3433' DST #1
09-15-12 3545' DST #3
09-16-12 RTD
Well logged/plugged

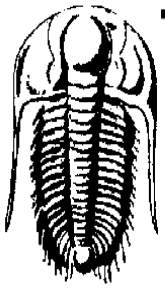
REMARKS AND RECOMMENDATIONS

This well was plugged due to negative drill stem test results.

Respectfully submitted,

Robert J Petersen





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production**

PO BOX 723
Alma, NE 68290

ATTN: Bob Peterson

Krafft #1

11-1s-19w Phillips,KS

Start Date: 2012.09.14 @ 00:16:00

End Date: 2012.09.14 @ 06:39:15

Job Ticket #: 48063 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.21 @ 09:12:57

DRILL STEM TEST REPORT

Bach Oil Production

PO BOX 723
Alma, NE 68290

ATTN: Bob Peterson

11-1s-19w Phillips,KS

Krafft #1

Job Ticket: 48063 **DST#: 1**

Test Start: 2012.09.14 @ 00:16:00

GENERAL INFORMATION:

Formation: **LKC "A-D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:52:45
Time Test Ended: 06:39:15

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 43

Interval: 3359.00 ft (KB) To 3433.00 ft (KB) (TVD)
Total Depth: 3433.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

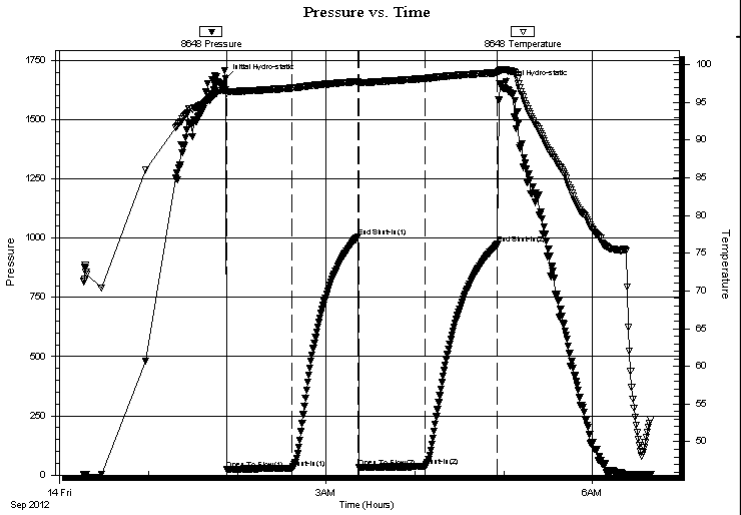
Reference Elevations: 2123.00 ft (KB)
2118.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8648 **Inside**

Press@RunDepth: 36.28 psig @ 3360.00 ft (KB)
Start Date: 2012.09.14 End Date: 2012.09.14
Start Time: 00:16:05 End Time: 06:39:14

Capacity: 8000.00 psig
Last Calib.: 2012.09.14
Time On Btm: 2012.09.14 @ 01:52:00
Time Off Btm: 2012.09.14 @ 04:57:15

TEST COMMENT: 45 - IF- 1/8" Blow built to 1"
45 - IS- No Return
45 - FF- No Blow
45 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1673.12	96.67	Initial Hydro-static
1	23.38	96.24	Open To Flow (1)
45	28.84	96.90	Shut-In(1)
90	1006.07	97.76	End Shut-In(1)
90	32.03	97.55	Open To Flow (2)
135	36.28	98.17	Shut-In(2)
184	974.18	98.94	End Shut-In(2)
186	1649.95	99.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100M	0.07

Gas Rates

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

DRILL STEM TEST REPORT

Bach Oil Production

PO BOX 723
Alma, NE 68290

ATTN: Bob Peterson

11-1s-19w Phillips,KS

Krafft #1

Job Ticket: 48063 **DST#: 1**

Test Start: 2012.09.14 @ 00:16:00

GENERAL INFORMATION:

Formation: **LKC "A-D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:52:45
Time Test Ended: 06:39:15

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 43

Interval: 3359.00 ft (KB) To 3433.00 ft (KB) (TVD)
Total Depth: 3433.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

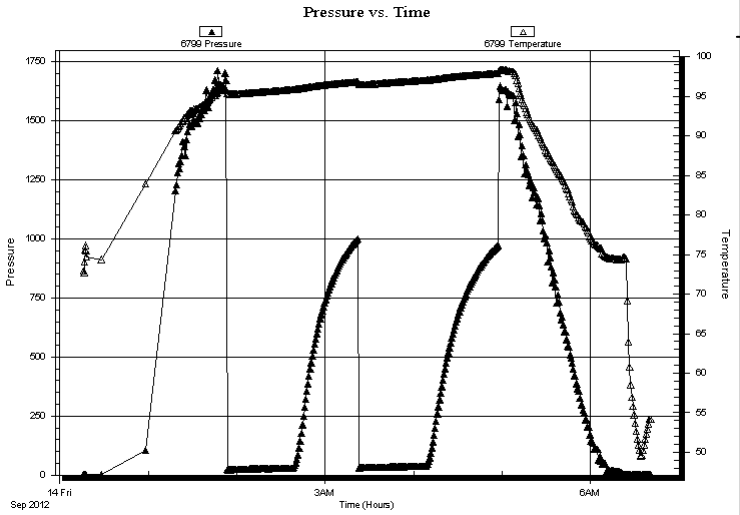
Reference Elevations: 2123.00 ft (KB)
2118.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6799 **Inside**

Press@RunDepth: psig @ 3360.00 ft (KB)
Start Date: 2012.09.14 End Date: 2012.09.14
Start Time: 00:16:05 End Time: 06:40:44

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: 45 - IF- 1/8" Blow built to 1"
45 - IS- No Return
45 - FF- No Blow
45 - FS- No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100M	0.07

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bach Oil Production

PO BOX 723
Alma, NE 68290

ATTN: Bob Peterson

11-1s-19w Phillips,KS

Krafft #1

Job Ticket: 48063 **DST#: 1**

Test Start: 2012.09.14 @ 00:16:00

Tool Information

Drill Pipe:	Length:	3154.00 ft	Diameter:	3.80 inches	Volume:	44.24 bbl	Tool Weight:		2500.00 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:	186.00 ft	Diameter:	2.25 inches	Volume:	0.91 bbl	Weight to Pull Loose:		52000.00 lb
					Total Volume:	45.15 bbl	Tool Chased		ft
Drill Pipe Above KB:		10.00 ft					String Weight:	Initial	50000.00 lb
Depth to Top Packer:		3359.00 ft						Final	50000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		74.00 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			3331.00		
Shut In Tool	5.00			3336.00		
Hydraulic tool	5.00			3341.00		
Jars	5.00			3346.00		
Safety Joint	3.00			3349.00		
Packer	5.00			3354.00	29.00	Bottom Of Top Packer
Packer	5.00			3359.00		
Stubb	1.00			3360.00		
Recorder	0.00	8648	Inside	3360.00		
Recorder	0.00	6799	Inside	3360.00		
Perforations	3.00			3363.00		
Change Over Sub	1.00			3364.00		
Drill Pipe	63.00			3427.00		
Change Over Sub	1.00			3428.00		
Bullnose	5.00			3433.00	74.00	Bottom Packers & Anchor
Total Tool Length:	**103.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Bach Oil Production

PO BOX 723
Alma, NE 68290

ATTN: Bob Peterson

11-1s-19w Phillips,KS

Krafft #1

Job Ticket: 48063 **DST#: 1**

Test Start: 2012.09.14 @ 00:16:00

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:	60.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.59 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	800.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

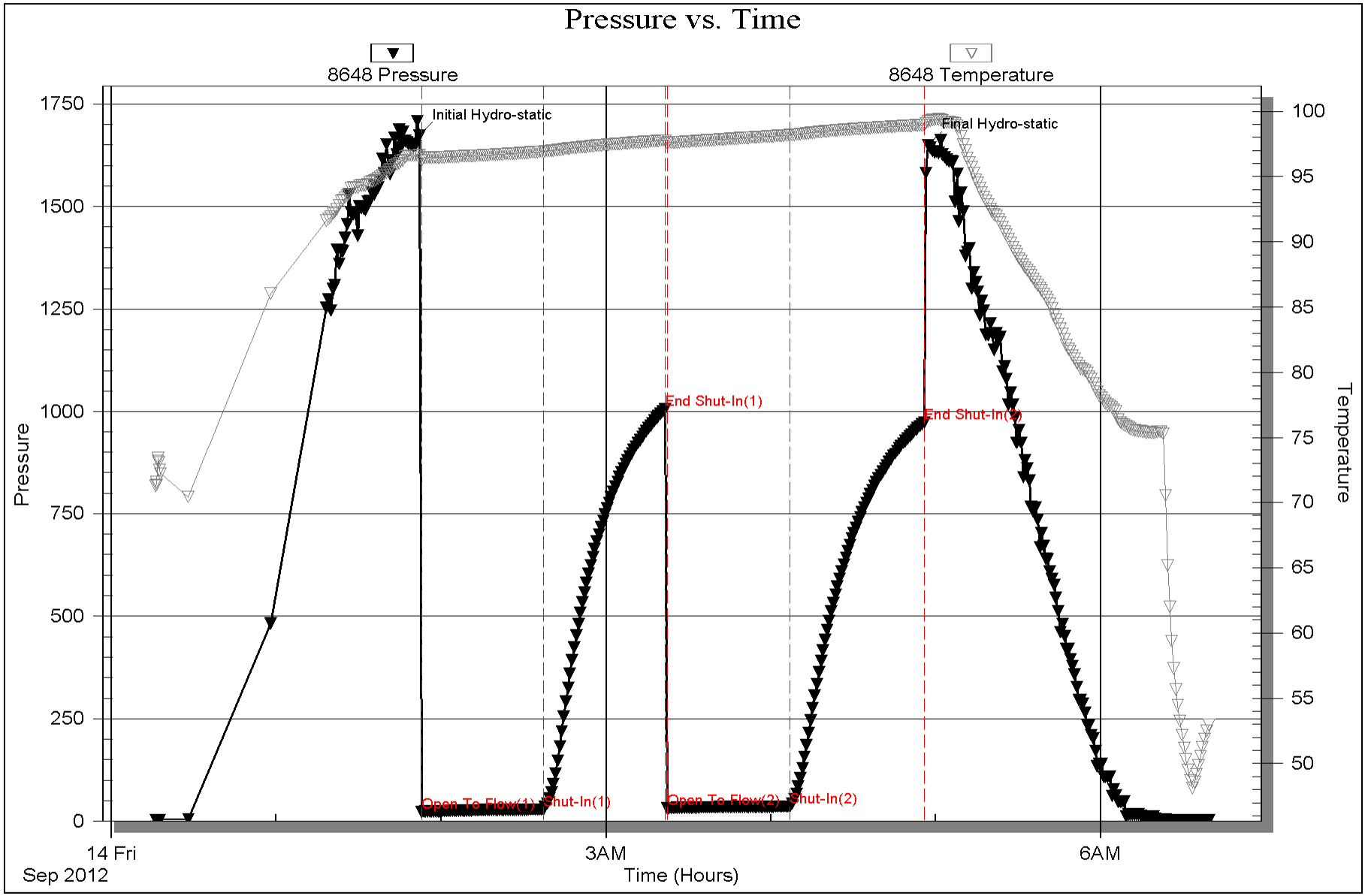
Recovery Table

Length ft	Description	Volume bbl
15.00	Mud 100M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

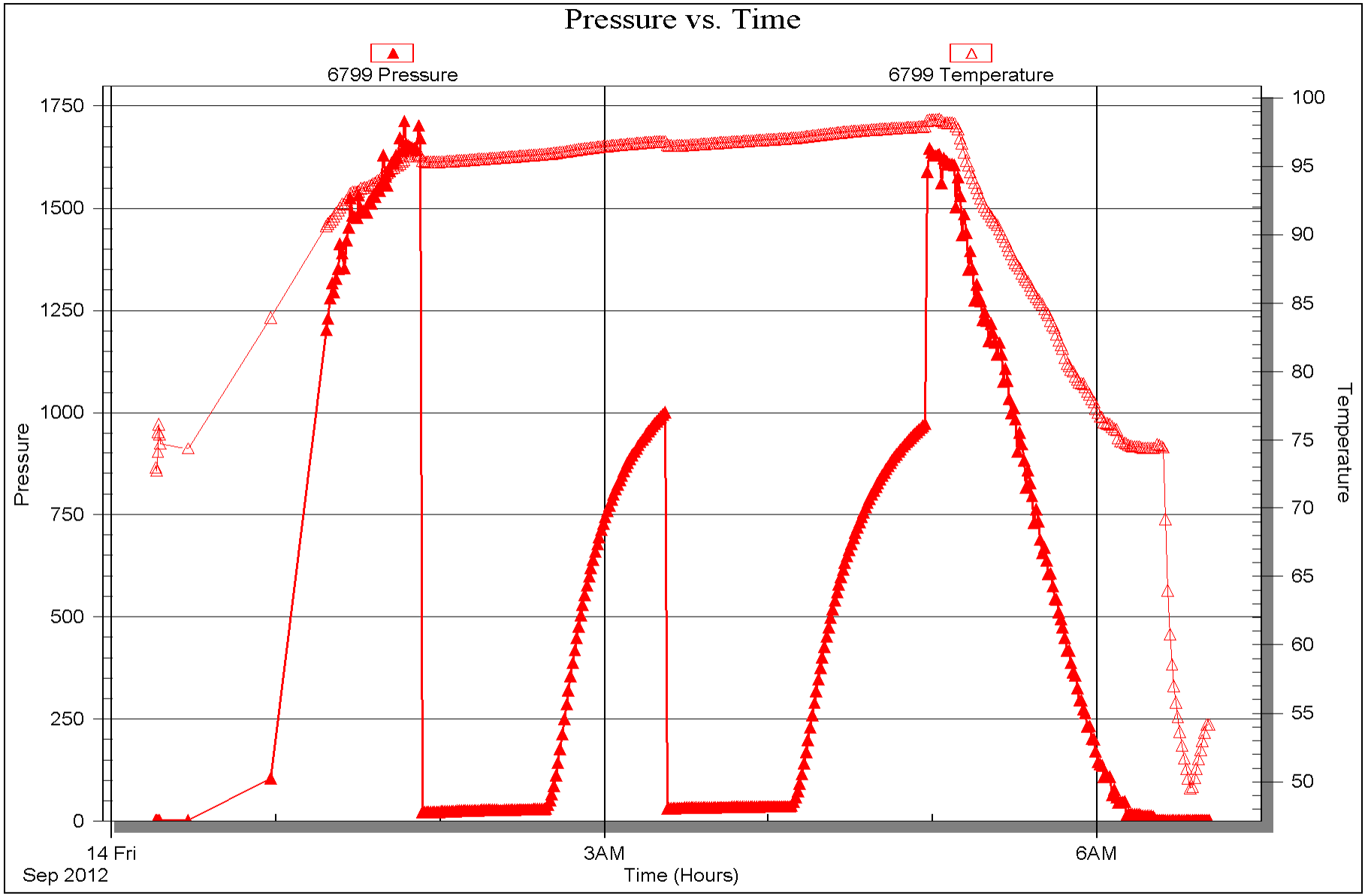
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8648 **Inside** Bach Oil Production Krafft #1 DST Test Number: 1

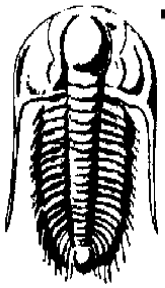


Trilobite Testing, Inc Ref. No: 48063 Printed: 2012.09.21 @ 09:13:01

Serial #: 6799 **Inside** Bach Oil Production Krafft #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 48063 Printed: 2012.09.21 @ 09:13:02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production**

PO BOX 723
Alma, NE 68290

ATTN: Bob Peterson

Krafft #1

11-1s-19w Phillips,KS

Start Date: 2012.09.14 @ 13:51:00

End Date: 2012.09.14 @ 20:33:15

Job Ticket #: 48064 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.21 @ 09:10:26

DRILL STEM TEST REPORT

Bach Oil Production

PO BOX 723
Alma, NE 68290

ATTN: Bob Peterson

11-1s-19w Phillips,KS

Krafft #1

Job Ticket: 48064 **DST#: 2**

Test Start: 2012.09.14 @ 13:51:00

GENERAL INFORMATION:

Formation: **LKC "F-G"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:48:00
Time Test Ended: 20:33:15

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 43

Interval: 3429.00 ft (KB) To 3475.00 ft (KB) (TVD)
Total Depth: 3475.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

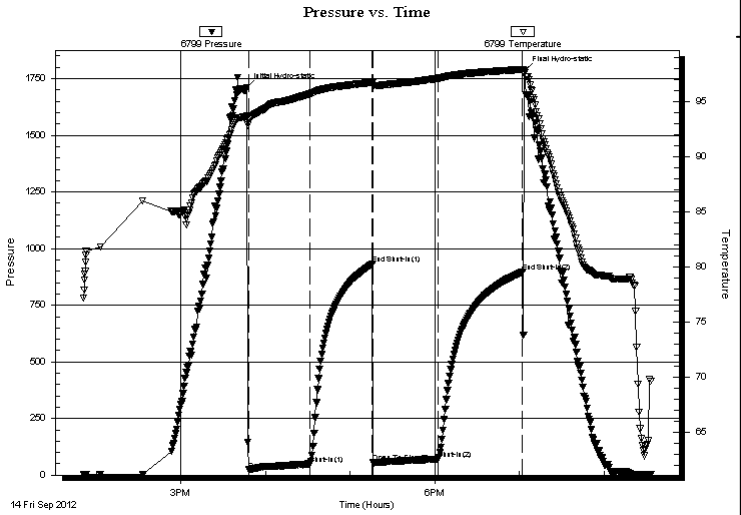
Reference Elevations: 2123.00 ft (KB)
2118.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6799 **Inside**

Press@RunDepth: 71.25 psig @ 3430.00 ft (KB)
Start Date: 2012.09.14 End Date: 2012.09.14
Start Time: 13:51:05 End Time: 20:33:14

Capacity: 8000.00 psig
Last Calib.: 2012.09.14
Time On Btm: 2012.09.14 @ 15:46:30
Time Off Btm: 2012.09.14 @ 19:03:45

TEST COMMENT: 45 - IF- 1/8" Blow built to 3"
45 - IS- No Return
45 - FF- Weak Surface Blow started at 7 min. Built to 1 1/4"
60 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1711.40	93.71	Initial Hydro-static
2	23.16	93.37	Open To Flow (1)
45	49.76	95.67	Shut-In(1)
90	930.97	96.69	End Shut-In(1)
90	55.71	96.45	Open To Flow (2)
136	71.25	97.07	Shut-In(2)
196	896.34	97.89	End Shut-In(2)
198	1786.82	97.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OSWM 50W 50M (oil spots)	0.30
10.00	OCM 2o 98M	0.05
0.00	Show of free oil in tool	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Bach Oil Production

PO BOX 723
Alma, NE 68290

ATTN: Bob Peterson

11-1s-19w Phillips,KS

Krafft #1

Job Ticket: 48064 **DST#: 2**

Test Start: 2012.09.14 @ 13:51:00

GENERAL INFORMATION:

Formation: **LKC "F-G"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:48:00
Time Test Ended: 20:33:15

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 43

Interval: 3429.00 ft (KB) To 3475.00 ft (KB) (TVD)
Total Depth: 3475.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

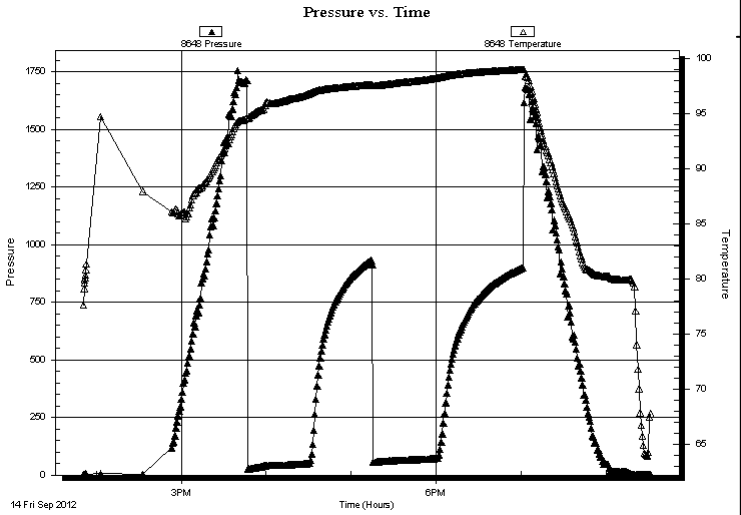
Reference Elevations: 2123.00 ft (KB)
2118.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8648 **Inside**

Press@RunDepth: psig @ 3430.00 ft (KB)
Start Date: 2012.09.14 End Date: 2012.09.14
Start Time: 13:51:05 End Time: 20:31:29

Capacity: 8000.00 psig
Last Calib.: 2012.09.14
Time On Btm:
Time Off Btm:

TEST COMMENT: 45 - IF- 1/8" Blow built to 3"
45 - IS- No Return
45 - FF- Weak Surface Blow started at 7 min. Built to 1 1/4"
60 - FS- No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OSWM 50W 50M (oil spots)	0.30
10.00	OCM 2o 98M	0.05
0.00	Show of free oil in tool	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bach Oil Production

PO BOX 723
Alma, NE 68290

ATTN: Bob Peterson

11-1s-19w Phillips,KS

Krafft #1

Job Ticket: 48064 **DST#: 2**

Test Start: 2012.09.14 @ 13:51:00

Tool Information

Drill Pipe:	Length:	3220.00 ft	Diameter:	3.80 inches	Volume:	45.17 bbl	Tool Weight:		2500.00 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:	186.00 ft	Diameter:	2.25 inches	Volume:	0.91 bbl	Weight to Pull Loose:		54000.00 lb
					Total Volume:	46.08 bbl	Tool Chased		ft
Drill Pipe Above KB:		6.00 ft					String Weight:	Initial	50000.00 lb
Depth to Top Packer:		3429.00 ft						Final	50000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		46.00 ft							
Tool Length:		75.00 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			3401.00		
Shut In Tool	5.00			3406.00		
Hydraulic tool	5.00			3411.00		
Jars	5.00			3416.00		
Safety Joint	3.00			3419.00		
Packer	5.00			3424.00	29.00	Bottom Of Top Packer
Packer	5.00			3429.00		
Stubb	1.00			3430.00		
Recorder	0.00	8648	Inside	3430.00		
Recorder	0.00	6799	Inside	3430.00		
Perforations	6.00			3436.00		
Change Over Sub	1.00			3437.00		
Drill Pipe	32.00			3469.00		
Change Over Sub	1.00			3470.00		
Bullnose	5.00			3475.00	46.00	Bottom Packers & Anchor
Total Tool Length:	**75.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Bach Oil Production

PO BOX 723
Alma, NE 68290

ATTN: Bob Peterson

11-1s-19w Phillips,KS

Krafft #1

Job Ticket: 48064 **DST#: 2**

Test Start: 2012.09.14 @ 13:51:00

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:	60.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

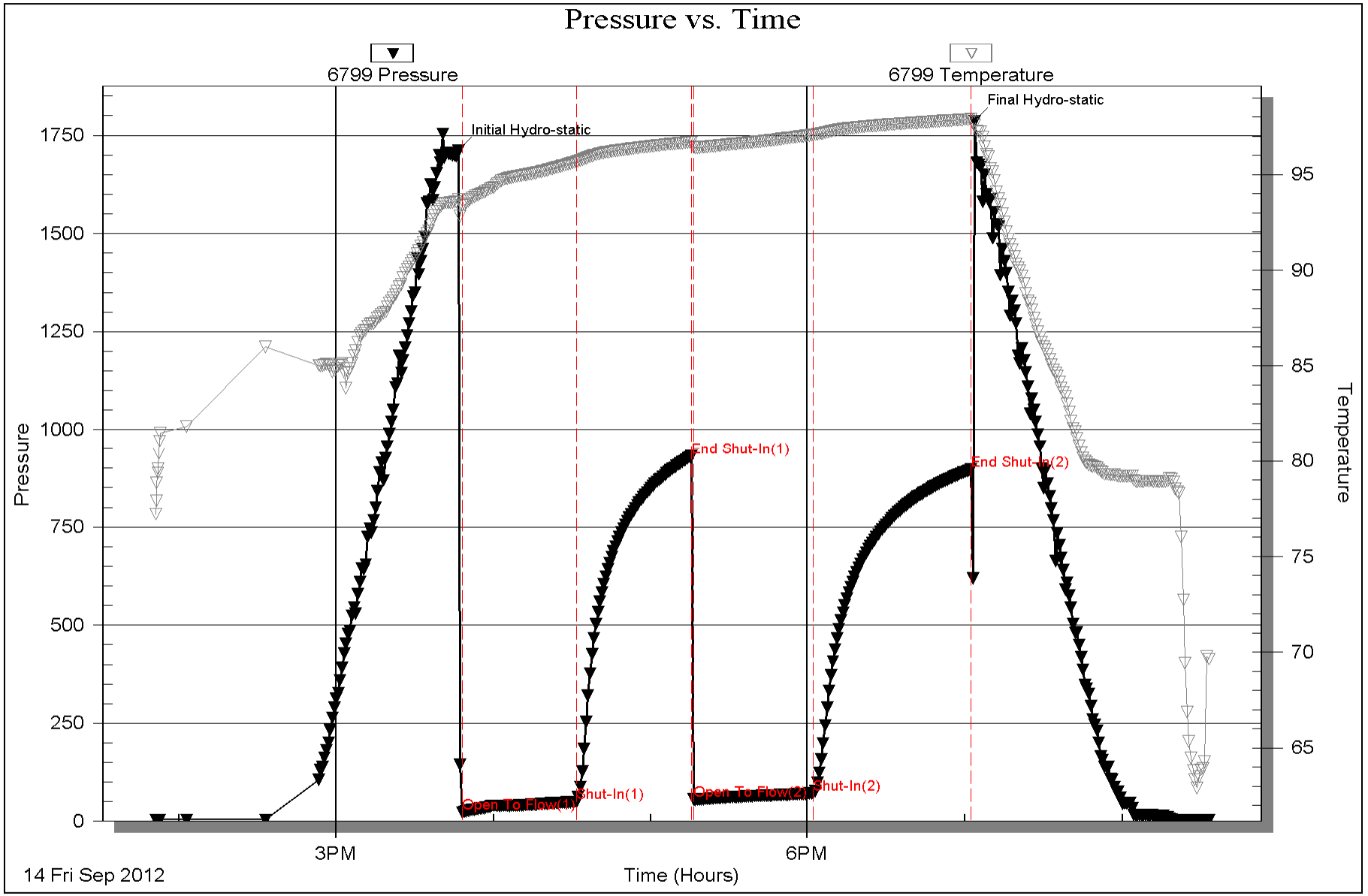
Recovery Table

Length ft	Description	Volume bbl
60.00	OSWM 50W 50M (oil spots)	0.295
10.00	OCM 2o 98M	0.049
0.00	Show of free oil in tool	0.000

Total Length: 70.00 ft Total Volume: 0.344 bbl

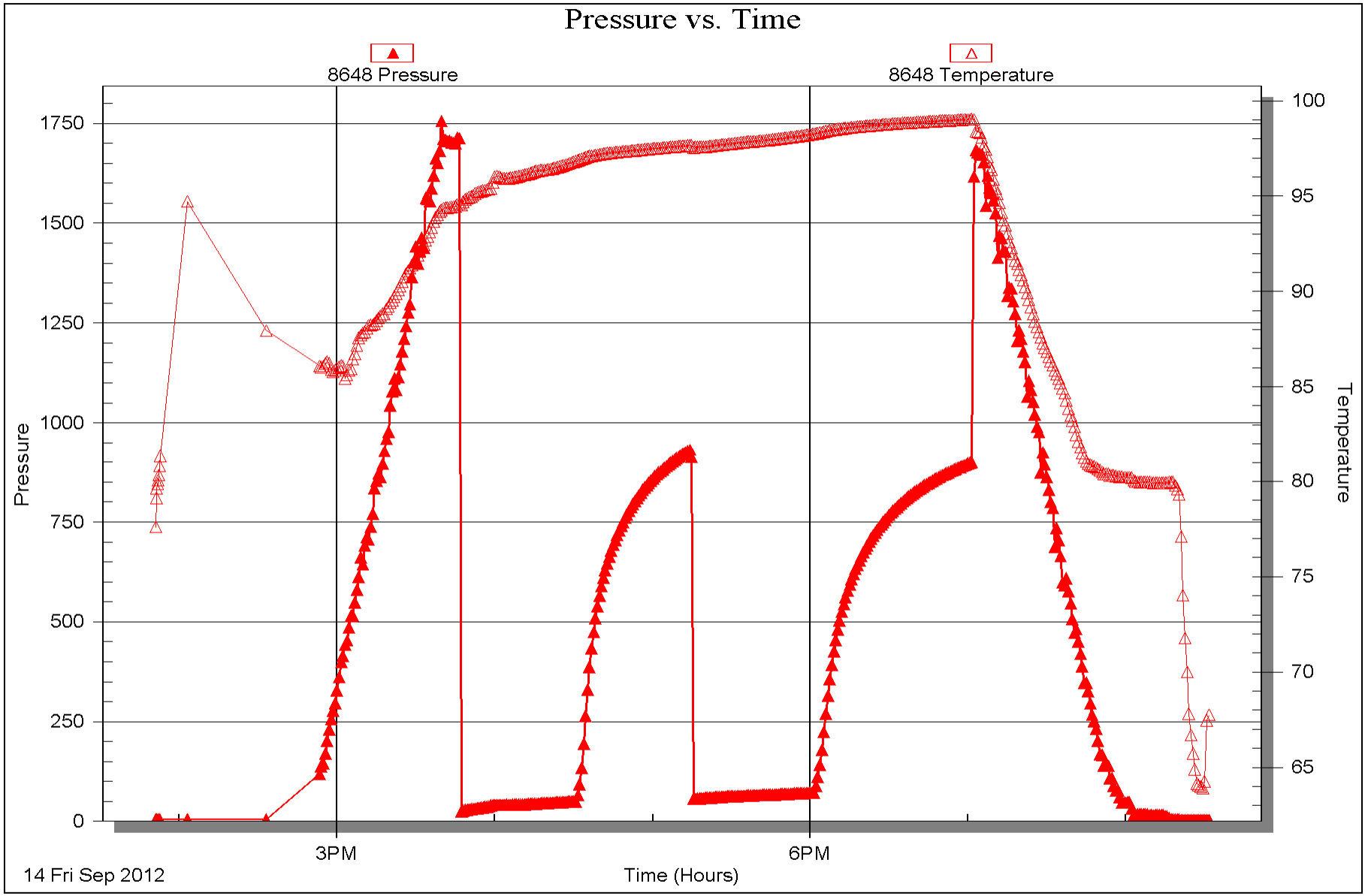
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6799 **Inside** Bach Oil Production Krafft #1 DST Test Number: 2

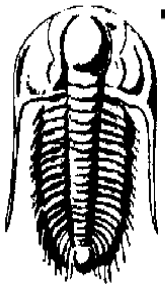


Trilobite Testing, Inc Ref. No: 48064 Printed: 2012.09.21 @ 09:10:31

Serial #: 8648 **Inside** Bach Oil Production Krafft #1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 48064 Printed: 2012.09.21 @ 09:10:31



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production**

PO BOX 723
Alma, NE 68290

ATTN: Bob Peterson

Krafft #1

11-1s-19w Phillips,KS

Start Date: 2012.09.15 @ 05:15:00
End Date: 2012.09.15 @ 12:22:45
Job Ticket #: 48065 DST #: 3

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

Printed: 2012.09.21 @ 08:54:06

DRILL STEM TEST REPORT

Bach Oil Production

PO BOX 723
Alma, NE 68290

ATTN: Bob Peterson

11-1s-19w Phillips,KS

Krafft #1

Job Ticket: 48065 **DST#: 3**

Test Start: 2012.09.15 @ 05:15:00

GENERAL INFORMATION:

Formation: **LKC "I-J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:26:15
Time Test Ended: 12:22:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 43

Interval: 3510.00 ft (KB) To 3545.00 ft (KB) (TVD)
Total Depth: 3545.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

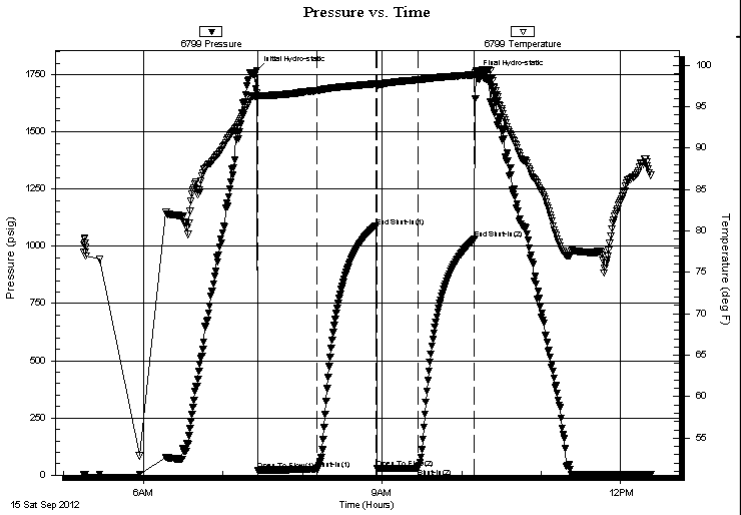
Reference Elevations: 2123.00 ft (KB)
2118.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6799 **Inside**

Press@RunDepth: 30.15 psig @ 3511.00 ft (KB)
Start Date: 2012.09.15 End Date: 2012.09.15
Start Time: 05:15:05 End Time: 12:22:44

Capacity: 8000.00 psig
Last Calib.: 2012.09.15
Time On Btm: 2012.09.15 @ 07:25:45
Time Off Btm: 2012.09.15 @ 10:10:45

TEST COMMENT: 45 - IF- Surface Blow built to 1"
45 - IS- No Return
30 - FF- No Blow
45 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1769.35	96.65	Initial Hydro-static
1	21.49	96.27	Open To Flow (1)
45	25.94	96.90	Shut-In(1)
90	1086.47	97.76	End Shut-In(1)
91	27.96	97.57	Open To Flow (2)
122	30.15	98.24	Shut-In(2)
164	1032.29	98.84	End Shut-In(2)
165	1751.42	99.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100M (oil spots)	0.05

Gas Rates

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

DRILL STEM TEST REPORT

Bach Oil Production

PO BOX 723
Alma, NE 68290

ATTN: Bob Peterson

11-1s-19w Phillips,KS

Krafft #1

Job Ticket: 48065 **DST#: 3**

Test Start: 2012.09.15 @ 05:15:00

GENERAL INFORMATION:

Formation: **LKC "I-J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:26:15
Time Test Ended: 12:22:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 43

Interval: 3510.00 ft (KB) To 3545.00 ft (KB) (TVD)
Total Depth: 3545.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

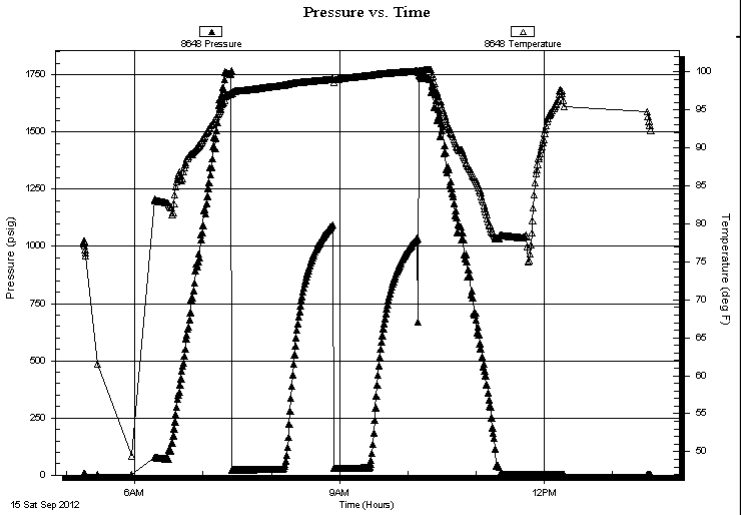
Reference Elevations: 2123.00 ft (KB)
2118.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8648 **Inside**

Press@RunDepth: psig @ 3511.00 ft (KB)
Start Date: 2012.09.15 End Date: 2012.09.15
Start Time: 05:15:05 End Time: 13:33:14

Capacity: 8000.00 psig
Last Calib.: 2012.09.15
Time On Btm:
Time Off Btm:

TEST COMMENT: 45 - IF- Surface Blow built to 1"
45 - IS- No Return
30 - FF- No Blow
45 - FS- No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100M (oil spots)	0.05

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bach Oil Production

PO BOX 723
Alma, NE 68290

ATTN: Bob Peterson

11-1s-19w Phillips,KS

Krafft #1

Job Ticket: 48065 **DST#: 3**

Test Start: 2012.09.15 @ 05:15:00

Tool Information

Drill Pipe:	Length:	3315.00 ft	Diameter:	3.80 inches	Volume:	46.50 bbl	Tool Weight:		2500.00 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:	186.00 ft	Diameter:	2.25 inches	Volume:	0.91 bbl	Weight to Pull Loose:		54000.00 lb
					Total Volume:	47.41 bbl	Tool Chased		ft
Drill Pipe Above KB:		20.00 ft					String Weight:	Initial	50000.00 lb
Depth to Top Packer:		3510.00 ft						Final	50000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		35.00 ft							
Tool Length:		64.00 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			3482.00		
Shut In Tool	5.00			3487.00		
Hydraulic tool	5.00			3492.00		
Jars	5.00			3497.00		
Safety Joint	3.00			3500.00		
Packer	5.00			3505.00	29.00	Bottom Of Top Packer
Packer	5.00			3510.00		
Stubb	1.00			3511.00		
Recorder	0.00	8648	Inside	3511.00		
Recorder	0.00	6799	Inside	3511.00		
Perforations	29.00			3540.00		
Bullnose	5.00			3545.00	35.00	Bottom Packers & Anchor
Total Tool Length:	**64.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Bach Oil Production

PO BOX 723
Alma, NE 68290

ATTN: Bob Peterson

11-1s-19w Phillips,KS

Krafft #1

Job Ticket: 48065 **DST#: 3**

Test Start: 2012.09.15 @ 05:15:00

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:	60.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

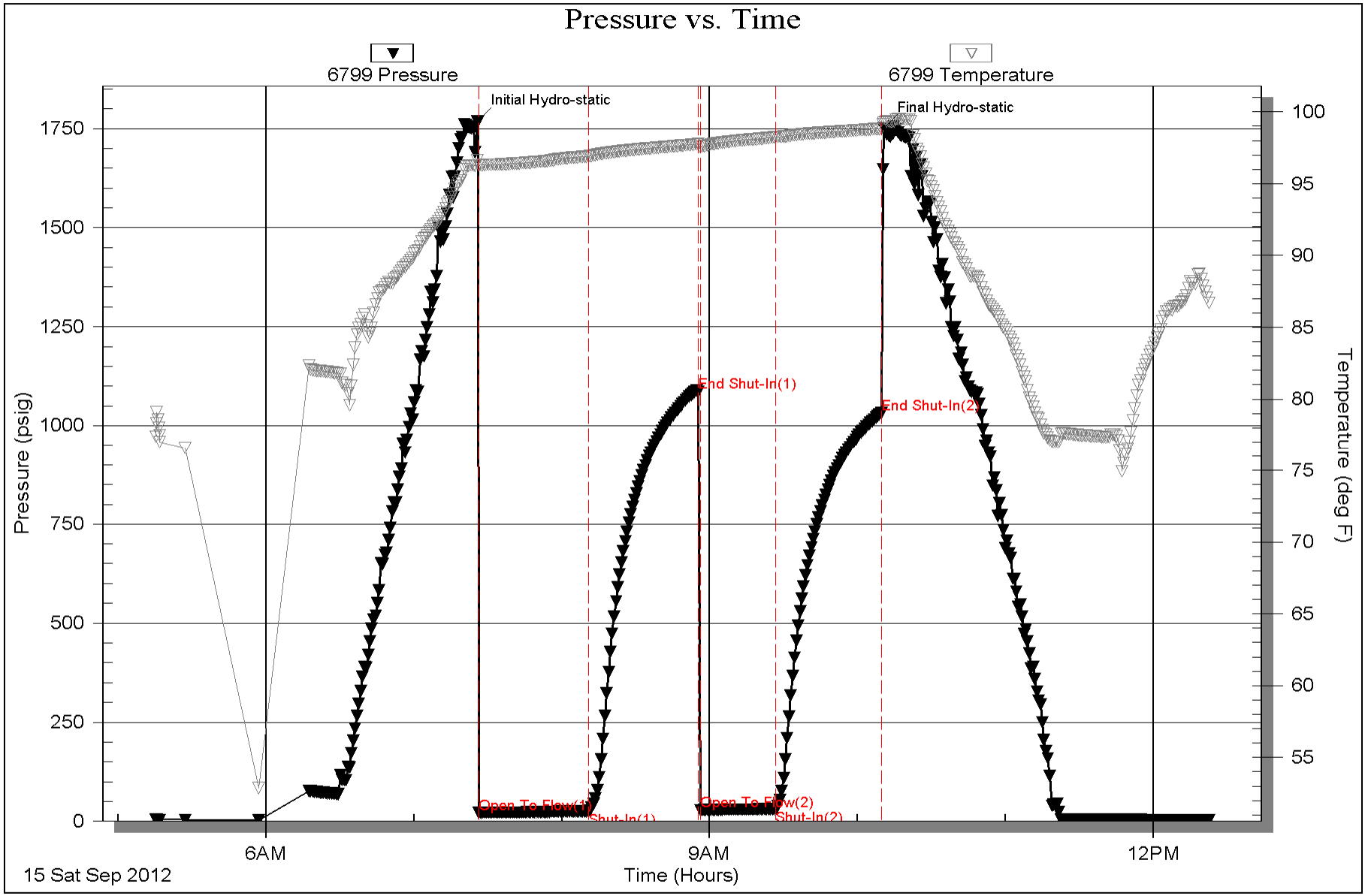
Recovery Table

Length ft	Description	Volume bbl
10.00	OSM 100M (oil spots)	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

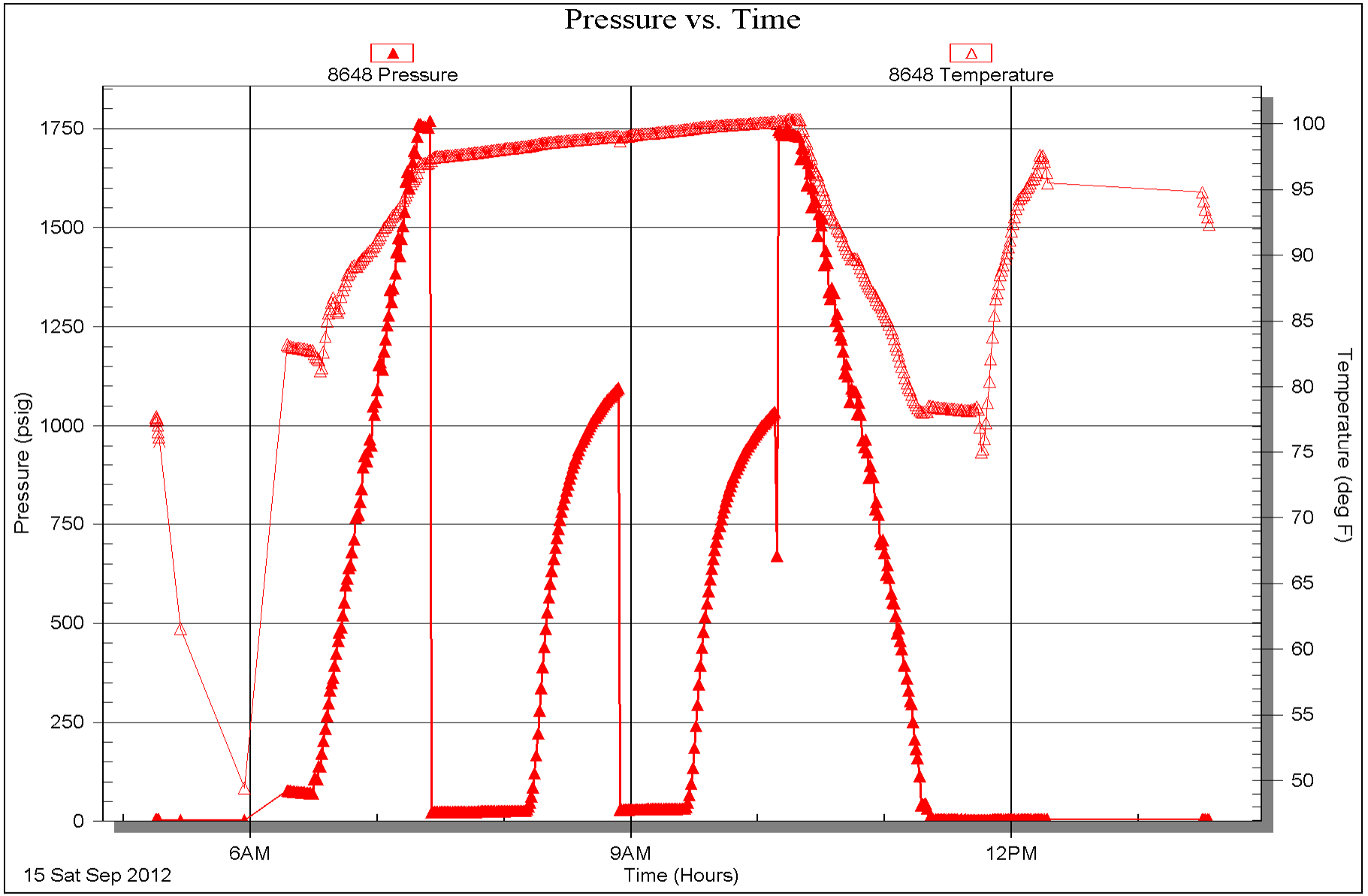
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6799 **Inside** Bach Oil Production Krafft #1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 48065 Printed: 2012.09.21 @ 08:54:11

Serial #: 8648 **Inside** Bach Oil Production Krafft #1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 48065 Printed: 2012.09.21 @ 08:54:12

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Test Ticket

NO. 48063

Well Name & No. Krafft #1 Test No. 1 Date 9-13-12

Company Bach Oil Production Elevation 2123 KB 2118 GL

Address PO Box 723 ALMA, NE 68920

Co. Rep / Geo. Bob Peterson Rig Murfin #8

Location: Sec. 11 Twp. 1S Rge. 19W Co. Phillips State KS

Interval Tested 3359-3433 Zone Tested LKC "A-C-D"

Anchor Length 74' Drill Pipe Run 3154 Mud Wt. 8.9

Top Packer Depth 3355 Drill Collars Run 186 Vis 60

Bottom Packer Depth 3359 Wt. Pipe Run 0 WL 7.6

Total Depth 3433 Chlorides 800 ppm System LCM 2#

Blow Description IF- 1/8" Blow built to 1"

IS- No Return

FF- No Blow

FS- NO Return

Rec 10	Feet of Mud	%gas	%oil	%water	100 %mud
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 10 BHT 99 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	1673	☒ Test	1150	T-On Location	10:30 PM
(B) First Initial Flow	23	☒ Jars	250	T-Started	12:16 AM
(C) First Final Flow	28	☒ Safety Joint	75	T-Open	1:53 AM
(D) Initial Shut-In	1006	☒ Circ Sub	N/C	T-Pulled	4:53 AM
(E) Second Initial Flow	32	☐ Hourly Standby		T-Out	6:41 AM
(F) Second Final Flow	36	☒ Mileage	130 RT 201.50	Comments	
(G) Final Shut-In	974	☐ Sampler			
(H) Final Hydrostatic	1649	☐ Straddle		☐ Ruined Shale Packer	
		☐ Shale Packer		☐ Ruined Packer	
Initial Open	45	☐ Extra Packer		☐ Extra Copies	
Initial Shut-In	45	☐ Extra Recorder		Sub Total	0
Final Flow	45	☐ Day Standby		Total	1676.50
Final Shut-In	45	☐ Accessibility		MP/DST Disc't	
		Sub Total	1676.50		

Approved By Our Representative

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Test Ticket

NO. 48064

Well Name & No. Krufft #1 Test No. 2 Date 9-14-12

Company Bach Oil Production Elevation 2123 KB 2118 GL

Address PO Box 723 Alma, NE 68920

Co. Rep / Geo. Bob Peterson Rig Murfin #8

Location: Sec. 11 Twp. 1S Rge. 19W Co. Phillips State KS

Interval Tested 3429-3475 Zone Tested LKC "F-G"

Anchor Length 46' Drill Pipe Run 3220 Mud Wt. 9.2

Top Packer Depth 3424 Drill Collars Run 186 Vis 60

Bottom Packer Depth 3429 Wt. Pipe Run 0 WL 8.0

Total Depth 3475 Chlorides 1,000 ppm System LCM 3.5#

Blow Description IF- 1/8" Blow built to 3"

IS- No Return

FF- Weak surface blow started at 7 min. Built to 1¼"

FS- No Return

Rec 10	Feet of OCM	%gas [illegible]2	%oil	%water [illegible]98	%mud
Rec 60	Feet of OSWM	%gas SPOTS	%oil 50	%water 50	%mud
Rec 0	Feet of Show of free oil in tool	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 70 BHT 98 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	1711	☒ Test	1150	T-On Location	1:35 PM
(B) First Initial Flow	23	☒ Jars	250	T-Started	1:51 PM
(C) First Final Flow	49	☒ Safety Joint	75	T-Open	3:47 PM
(D) Initial Shut-In	930	☒ Circ Sub	N/C	T-Pulled	7:02 PM
(E) Second Initial Flow	55	☐ Hourly Standby		T-Out	8:33 PM
(F) Second Final Flow	71	☒ Mileage	130 RT 201.50	Comments	
(G) Final Shut-In	896	☐ Sampler			
(H) Final Hydrostatic	1786	☐ Straddle		☐ Ruined Shale Packer	
		☐ Shale Packer		☐ Ruined Packer	
Initial Open	45	☐ Extra Packer		☐ Extra Copies	
Initial Shut-In	45	☐ Extra Recorder		Sub Total	0
Final Flow	45	☐ Day Standby		Total	1676.50
Final Shut-In	60	☐ Accessibility		MP/DST Disc't	
		Sub Total	1676.50		

Approved By _____ Our Representative _____

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Test Ticket

NO. 48065

Well Name & No. Krafft #1 Test No. 3 Date 9-15-12

Company Bach Oil Production Elevation 2123 KB 2118 GL

Address PO Box 723 Alma, NE 68920

Co. Rep / Geo. Bob Peterson Rig Murfin #8

Location: Sec. 11 Twp. 1S Rge. 19W Co. Phillips State KS

Interval Tested 3510-3545 Zone Tested LKC "I-J"

Anchor Length 35' Drill Pipe Run 3315 Mud Wt. 9.2

Top Packer Depth 3506 Drill Collars Run 186 Vis 60

Bottom Packer Depth 3510 Wt. Pipe Run 0 WL 8.0

Total Depth 3545 Chlorides 1,000 ppm System LCM 3.5#

Blow Description IF- Surface Blow built to 1"
IS- No Return
FF- No Blow
FS- No Return

Rec 10	Feet of OSM	%gas SPOTS	%oil	%water 100	%mud
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 10 BHT 99° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	1769	☒ Test	1150	T-On Location	4:50 AM
(B) First Initial Flow	21	☒ Jars	250	T-Started	5:15 AM
(C) First Final Flow	25	☒ Safety Joint	75	T-Open	7:25 AM
(D) Initial Shut-In	1086	☒ Circ Sub	NC	T-Pulled	10:10 AM
(E) Second Initial Flow	27	☐ Hourly Standby		T-Out	12:22 PM
(F) Second Final Flow	30	☒ Mileage	130 RT 201.50	Comments	
(G) Final Shut-In	1032	☐ Sampler			
(H) Final Hydrostatic	1751	☐ Straddle		☐ Ruined Shale Packer	
		☐ Shale Packer		☐ Ruined Packer	
Initial Open	45	☐ Extra Packer		☐ Extra Copies	
Initial Shut-In	45	☐ Extra Recorder		Sub Total	0
Final Flow	30	☐ Day Standby		Total	1676.50
Final Shut-In	45	☐ Accessibility		MP/DST Disc't	
		Sub Total	1676.50		

Approved By _____ Our Representative _____

ALLIED
OIL & GAS SERVICES, LLC

PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 132692
Invoice Date: Sep 10, 2012
Page: 1

2012 — 1967 — 45 YEARS

Bill To:

Bach Oil Production
R. R. #I Box 28
Phillipsburg, KS 67661

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Bach	Knabt #1 ~~Knabe #3~~	Net 30 Days	
Job Location	**Camp Location**	**Service Date**	**Due Date**
KS2-01	Russell	Sep 10, 2012	10/10/12

Quantity	Item	Description	Unit Price	Amount
170.00	MAT	Class A Common	17.90	3,043.00
3.00	MAT	Gel	23.45	70.35
6.00	MAT	Chloride	64.00	384.00
183.51	SER	Cubic Feet	2.48	455.11
695.54	SER	Ton Mileage	2.60	1,808.40
1.00	SER	Surface	1,512.25	1,512.25
83.00	SER	Pump Truck Mileage	7.00	581.00
83.00	SER	Light Vehicle Mileage	4.00	332.00
1.00	CEMENTER	Bobby Smith		
1.00	EQUIP OPER	Robert Yakubovich		
1.00	EQUIP OPER	Tony Pfannenstiel		
1.00	OPER ASSIST	Kevin Rupp		

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

$ 2112.02

ONLY IF PAID ON OR BEFORE
Oct 5, 2012

Subtotal	8,186.11
Sales Tax	237.82
Total Invoice Amount	8,423.93
Payment/Credit Applied	
TOTAL	**8,423.93**

ALLIED OIL & GAS SERVICES, LLC 056521

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Russell KS

	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
DATE 9-10-12	13	1	19			6:30pm	7:00pm
LEASE Krug	WELL # 1		LOCATION Phillipsburg N to 383 4W 1S ½ E			COUNTY Phillips	STATE KS
OLD OR NEW (Circle one)			N into				

CONTRACTOR Murfin Drilling #8
TYPE OF JOB surface
HOLE SIZE 12¼ T.D. 235
CASING SIZE 8⅝ 20# DEPTH 234
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT 15'
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 13¾ bbl

OWNER

CEMENT
AMOUNT ORDERED 170 com 3%cc 2%gel

EQUIPMENT

PUMP TRUCK CEMENTER Robert Y / Bob S
409 HELPER Tony P
BULK TRUCK
473 DRIVER Kevin R
BULK TRUCK
DRIVER

COMMON	170	@ 17.90	3043.00
POZMIX		@	
GEL	3	@ 23.45	70.35
CHLORIDE	6	@ 64.00	384.00
ASC		@	
HANDLING	183.51 SW	@ 2.48	455.11
MILEAGE	695.54 t/m	2.60	1808.40
		TOTAL	5760.86

REMARKS:

ran 5 jts of new 8⅝ 20# csg received circulation mix 170 com 3%cc 2%gel displaced 13¾ bbl of fresh water shut in and wash up

cement did circulate

SERVICE

DEPTH OF JOB			235
PUMP TRUCK CHARGE			1512.25
EXTRA FOOTAGE		@	
MILEAGE	83 HVAJ	@ 7.00	581.00
MANIFOLD		@	
	83 HVAJ	@ 4.00	332.00
		@	
		TOTAL	2425.25

CHARGE TO: Back 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.

PRINTED NAME Rodney Farr

SIGNATURE Rodney Farr

SALES TAX (If Any) 237.81
TOTAL CHARGES 8186.11
DISCOUNT 2112.02 IF PAID IN 30 DAYS
net 6074.09 BS 9-13
before tax

ALLIED OIL & GAS SERVICES, LLC

PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 132787
Invoice Date: Sep 16, 2012
Page: 1

2012 — 1967 — 45 YEARS

Bill To:

Bach Oil Production
R. R. #I Box 28
Phillipsburg, KS 67661

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Bach	Kraft #1	Net 30 Days	
Job Location	**Camp Location**	**Service Date**	**Due Date**
KS2-03	Russell	Sep 16, 2012	10/16/12

Quantity	Item	Description	Unit Price	Amount
132.00	MAT	Class A Common	17.90	2,362.80
88.00	MAT	Pozmix	9.35	822.80
8.00	MAT	Gel	23.40	187.20
50.00	MAT	Flo Seal	2.97	148.50
236.67	SER	Cubic Feet	2.48	586.93
820.45	SER	Ton Mileage	2.60	2,133.18
1.00	SER	Plug to Abandon	1,250.00	1,250.00
83.00	SER	Pump truck Mileage	7.70	639.10
83.00	SER	Light Vehicle Mileage	4.40	365.20
1.00	EQP	8.5/8 Wooden Plug	107.64	107.64
1.00	CEMENTER	Bobby Smith		
1.00	EQUIP OPER	Tony Pfannenstiel		
1.00	OPER ASSIST	Kevin Rupp		

Subtotal	8,603.35
Sales Tax	585.03
Total Invoice Amount	9,188.38
Payment/Credit Applied	
TOTAL	**9,188.38**

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

$ 1978.77

ONLY IF PAID ON OR BEFORE

Oct 11, 2012

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

Kansas
Corporation Commission

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

December 27, 2012

Jason Bach
Bach, Jason dba Bach Oil Production
PO BOX 723
ALMA, NE 68920-0723

Re: ACO1
API 15-147-20690-00-00
Krafft 1
SW/4 Sec.11-01S-19W
Phillips 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,
Jason Bach