



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1171475  
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: \_\_\_\_\_



1171475

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

<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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Bach, Jason dba Bach Oil Production
Well Name	Oxbow Unit 1
Doc ID	1171475

Tops

Name	Top	Datum
Stone Corral	1643	+366
Base Stone Corral	1666	+343
Topeka	3003	-994
Heebner	3206	-1197
Toronto	3234	-1225
Lansing	3252	-1243
Muncie Creek	3363	-1354
Stark	3427	-1418
BKC	3468	-1459

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

December 04, 2013

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

Re: ACO1  
API 15-147-20716-00-00  
Oxbow Unit 1  
NE/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,  
Nick Simonson

# GEOLOGIST'S REPORT

## DRILLING TIME AND SAMPLE LOG

**BACH OIL PRODUCTION**  
**WELL: OXBOW UNIT #1**  
**LOC.: 600' FNL & 100' FEL**  
**SEC. 11-1-19W**  
**PHILLIPS COUNTY, KANSAS**  
**API: 15-147-20716-00-00**

**ELEVATION**  
 KB: 2009  
 GL: 2004  
 LOG MEASURED FROM: KB

**SURFACE CASING**  
 20# 8 5/8 "  
 Casing set @ 222'  
 w/175 SX

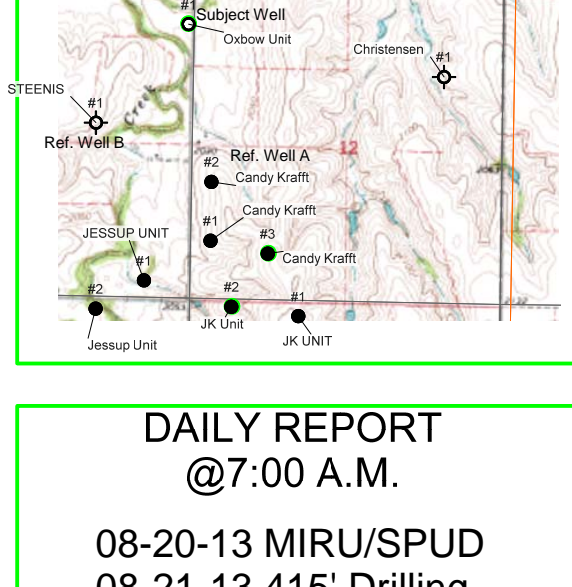
**PRODUCTION CASING**  
 5 1/2" Casing set

**WELL LOG SURVEYS**  
 DIL/CDL/MICRO

**DRILLING CONTR.: MURFIN RIG #24**  
**SPUD: 05-20-13 COMP: 05-25-13**  
**MUD UP: 2800' TYPE MUD: CHEM.**  
**DRILL TIME: 2900 to' RTD**  
**RTD: 3501 LTD: 3500'**  
**SAMPLES SAVED: 2900'-RTD**  
**GEOLOGIST: ROBERT J. PETERSEN**

### ELECTRIC LOG TOPS

FORMATION	DEPTH	DATUM	POS.A	POS.B
Stone Corral	1643	+366	-7	-1
Base Stone Corral	1666	+343	-8	+1
Topeka	3003	-994	-10	+1
Heebner	3206	-1197	-12	-1
Toronto	3234	-1225	-13	+3
Lansing	3252	-1243	-15	-3
Muncie Creek	3363	-1354	-15	N/A
Stark	3427	-1418	-13	N/A
BKC	3468	-1459	-12	Flat
LTD	3500	-1491	N/A	N/A



**REFERENCE WELL:**  
 Ref. Well A  
 Bach  
 Candy Krafft #2  
 2000' FSL & 330' FWL  
 12-1-19W

Ref. Well B  
 Musgrove  
 Steenis #1  
 SE SW NE  
 11-1-19W

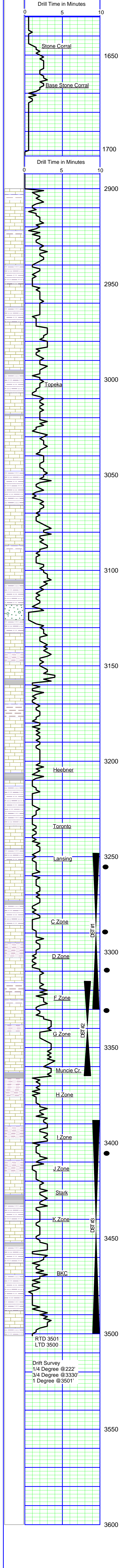
### REMARKS AND RECOMMENDATIONS

Production casing was set to further test this well.

Respectfully submitted,  
*Robert J. Petersen*  
 Robert J. Petersen

### DAILY REPORT @7:00 A.M.

08-20-13 MIRU/SPUD  
 08-22-13 415' Drilling  
 08-22-13 2325' Drilling  
 08-23-13 3158' Short trip  
 08-24-13 3365' DST #2  
 08-25-13 3501' RTD



SAMPLE DESCRIPTION

LS; Lt gray/tan, fine crystalline to dense, cherty + SH; Red, sandy (2930)

LS; Cream/lt gray, fine crystalline, foss, cherty (2960)

SH; Red/gray (2990)

LS; Cream/gray, fine crystalline to dense, foss, cherty (2990)

SH; Gray (3020)

LS; Cream/lt gray, fine crystalline to dense, fossil mottled (3020)

SH; Dark gray (3250)

LS; Cream/gray, fine crystalline, foss, sl dolo, chalky (3250)

LS; Cream, fine crystalline, foss, chalky + LS; Gray, dense, sl foss (3280)

SH; Dark gray, sandy (3280)

LS; Cream/tan/light gray, fine crystalline, foss, poor moldic por, cherty (3110)

SH; Gray (3110)

LS; Tan, fine crystalline, foss, chalky (3140)

SH; Black (3140)

SD; Gray, fine grained, friable (3140)

SH; Red, silty (3140)

LS; Cream/white, fine crystalline (3150)

SH; Red, silty, sandy, calcareous nodules (3158) SHORT TRIP 3158'

LS; Cream, fine to medium crystalline, oolitic, w/chert inclusions (3158/15')

SH; Black (trace 3170)

LS; Gray/tan, fine crystalline to dense, fos, dolomitic, light stain (3190)

LS; Cream/lt gray, fine crystalline to dense, foss, chalky (3200)

LS; Cream/lt gray, fine crystalline, foss, cherty, light stain (3210)

LS; Lt gray, dense, foss, cherty, light stain (3220)

SH; Black (3230)

LS; Tan/Gray, dense, foss (3230)

SH; Red/gray, silty (3240)

LS; Cream, fine crystalline, foss, sl glauci, chety (3250)

LS; Cream, fine crystalline to dense, chalky(soft), cherty, blocky (3260)

SH; Red, silty-sandy (3270)

LS; Cream/white, fine crystalline, oolitic-granulae, chalky, chety w/fair intergran por, sfo odor, light stain on dry (3270)

LS; Cream/gray, fine crystalline, oolitic-foss, granular, chalky, cherty, fair moldic por (3275)

LS; Cream/gray, fine crystalline to dense, foss, chalky (3275/20-40") with angular black chert (3290)

SH; Black (3290)

SH; Red/gray, silty-sandy (3300)

LS; Cream, fine crystalline, foss w/fair moldic por, sfo, light stain (3310)

SH; Red, silty (3318)

LS; Cream/lt gray, fine crystalline, dolo, very cherty (orange/tan/blocky ) (3318/20")

LS; Cream/lt gray, dense, cherty (3330)

SH; Black (trace 3330)

LS; Tan, fine crystalline, foss, granular, w/fair moldic por, sfo, odor (3330/20") increase saturation/odor, dark sat on dry (3330/40-60")

SH; Red/gray/black (3340-poor sample)

LS; Cream/white, fine crystalline, fossiliferous-granular w/fair moldic por, sfo, sat, med stain ry, good odor (3350)

SH; Red/gray (3360)

LS; Cream, fine crystalline to dense, foss, chalky (3360)

LS; Lt gray, fine crystalline, foss, sl mottled + LS; Tan, dense (3365/20")

LS; Cream/tan, fine crystalline to dense, foss, sl chalky, sl dolo trace stain (3365/40-60")

SH; Black (3380)

SH; Red/gray, silty-sandy (3380)

SH; Gray, sandy (3390)

LS; Cream, fine crystalline, foss, cherty + LS; Gray, fine crystalline, foss (3390)

LS; Cream/white, fine crystalline, foss, sl dolo, chalky, cherty (white/gray, blocky)(3400)

SH; Black(3416)

SH; Red (3416)

LS; Cream, fine crystalline, to dense, foss, granular, poorly sorted w/fair moldic por, tr vug por.sfo, faint odr, dark brown sat on dry (3416)

LS; Cream/lt gray, fine crystalline to dense, foss w/fair moldic por w/trace intergran por, increase sfo (oil in wash bucket), increase odor, dark brown sat on dry (3416/20")

LS; Cream/white, fine crystalline, sl dolo + LS; Cream, dense (3416/40")

SH; Red/gray, silty (3416/40")

LS; Cream/lt gray, fine crystalline to dense, cherty (3430)

LS; Cream/lt gray, fine crystalline to dense, sl chalky, trace black stain, frac por (3440)

SH; Black (3450)

SH; Red/gray, sandy, calcareous (3450-3460)

LS; Cream/white, fine crystalline to dense, chalky + LS; Tan, dense (3460)

LS; Lt gray, fine crystalline to dense (3470)

SH; Black (trace 3470)

SH; Red/gray, silty, soft-gummy (3480)

LS; Gray, fine to medium crystalline, sl foss, chalky + SH; Red, sandy, calcareous (3490)

SH; Red, silty-sandy + SD; Red, fine grained, subangular to subrounded, calcareous (3500)

LS; Cream, fine to medium crystalline sl dolo (3500)

LS; Cream/gray, fine crystalline, foss, chalky + SH; Red (3501/15')

**DST #1**  
 3248-3330'  
 45-45-45-60"  
 IF: Surface blow built to 21/4"  
 FF: Weak surface blow started at 25 min. Recovered: 130' Mud  
 SIP: 1161-1150#  
 FP: 17-55/57-82#  
 BHT: 104F

**DST #2**  
 3315-3365'  
 45-45-30-30"  
 IF: Very weak surface blow built to 1/2 inch after 25 min.  
 FF: None  
 Recovered: 70' WCM  
 40 %water/60% mud  
 SIP: 1085-993#  
 FP: 16-40/45-56#  
 BHT: 102F

**DST #3**  
 3387-3500'  
 30-45-45-45"  
 IF: Surface blow first 5 min built to B.O.B. in 30 min.  
 FF: Surface blow first 1 min. built to B.O.B. in 38 min. No Blowback  
 Recovered:  
 60' CO (23° gravity)  
 20' OCM 40% Oil  
 60' OCM 20% Oil  
 120' OCM 35% Oil  
 No water in grind out  
 SIP: 1236-1171#  
 FP: 27-83/88-125#



## DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production**

PO Box 723  
Alma NE 68920-0723

ATTN: Bob Petersen

### **Oxbow Unit # 1**

#### **11-1s-19w Phillips,KS**

Start Date: 2013.08.23 @ 18:24:00

End Date: 2013.08.24 @ 01:18:00

Job Ticket #: 50462                      DST #: 1

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

Printed: 2013.08.26 @ 15:49:43



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Bach Oil Production

**11-1s-19w Phillips,KS**

PO Box 723  
Alma NE 68920-0723

**Oxbow Unit # 1**

ATTN: Bob Petersen

Job Ticket: 50462

**DST#: 1**

Test Start: 2013.08.23 @ 18:24:00

## GENERAL INFORMATION:

Formation: **LKC " A - E "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:25:30

Time Test Ended: 01:18:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 54

**Interval: 3248.00 ft (KB) To 3330.00 ft (KB) (TVD)**

Reference Elevations: 2009.00 ft (KB)

Total Depth: 3330.00 ft (KB) (TVD)

2004.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8289 Outside**

Press @ Run Depth: 82.53 psig @ 3249.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.23

End Date:

2013.08.24

Last Calib.: 2013.08.24

Start Time: 18:24:02

End Time:

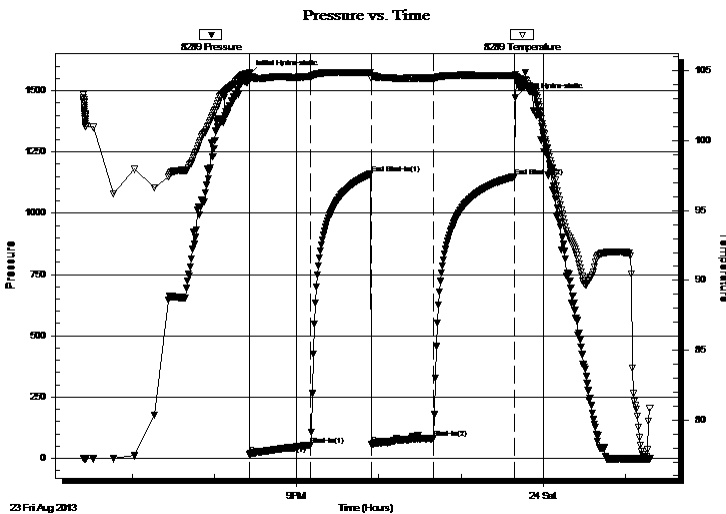
01:18:00

Time On Btm: 2013.08.23 @ 20:25:15

Time Off Btm: 2013.08.23 @ 23:39:45

**TEST COMMENT:** 45-IFP- Surface Blow Building to 2 1/4"  
45-ISIP- No Blow  
45-FFP- Weak Surface Blow in 25 min.  
60-FSIP- No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1565.01	104.85	Initial Hydro-static
1	17.62	104.35	Open To Flow (1)
45	55.10	104.60	Shut-In(1)
89	1161.23	104.89	End Shut-In(1)
90	57.20	104.48	Open To Flow (2)
135	82.53	104.46	Shut-In(2)
194	1150.27	104.67	End Shut-In(2)
195	1472.61	104.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
130.00	Mud 100%	1.73

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Bach Oil Production

**11-1s-19w Phillips,KS**

PO Box 723  
Alma NE 68920-0723

**Oxbow Unit # 1**

Job Ticket: 50462

**DST#: 1**

ATTN: Bob Petersen

Test Start: 2013.08.23 @ 18:24:00

## Tool Information

Drill Pipe:	Length: 3120.00 ft	Diameter: 2.25 inches	Volume: 15.34 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 3.80 inches	Volume: 1.68 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 17.02 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	49000.00 lb
Depth to Top Packer:	3248.00 ft			Final	49000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	82.00 ft				
Tool Length:	110.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3221.00	
Shut In Tool	5.00			3226.00	
Hydraulic tool	5.00			3231.00	
Jars	5.00			3236.00	
Safety Joint	2.00			3238.00	
Packer	5.00			3243.00	28.00 Bottom Of Top Packer
Packer	5.00			3248.00	
Stubb	1.00			3249.00	
Recorder	0.00	8789	Inside	3249.00	
Recorder	0.00	8289	Outside	3249.00	
Perforations	14.00			3263.00	
Change Over Sub	1.00			3264.00	
Blank Spacing	62.00			3326.00	
Change Over Sub	1.00			3327.00	
Bullnose	3.00			3330.00	82.00 Bottom Packers & Anchor

**Total Tool Length: 110.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Bach Oil Production

**11-1s-19w Phillips,KS**

PO Box 723  
Alma NE 68920-0723

**Oxbow Unit # 1**

Job Ticket: 50462

**DST#: 1**

ATTN: Bob Petersen

Test Start: 2013.08.23 @ 18:24:00

## 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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: 4.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	Mud 100%	1.732

Total Length: 130.00 ft      Total Volume: 1.732 bbl

Num Fluid Samples: 0

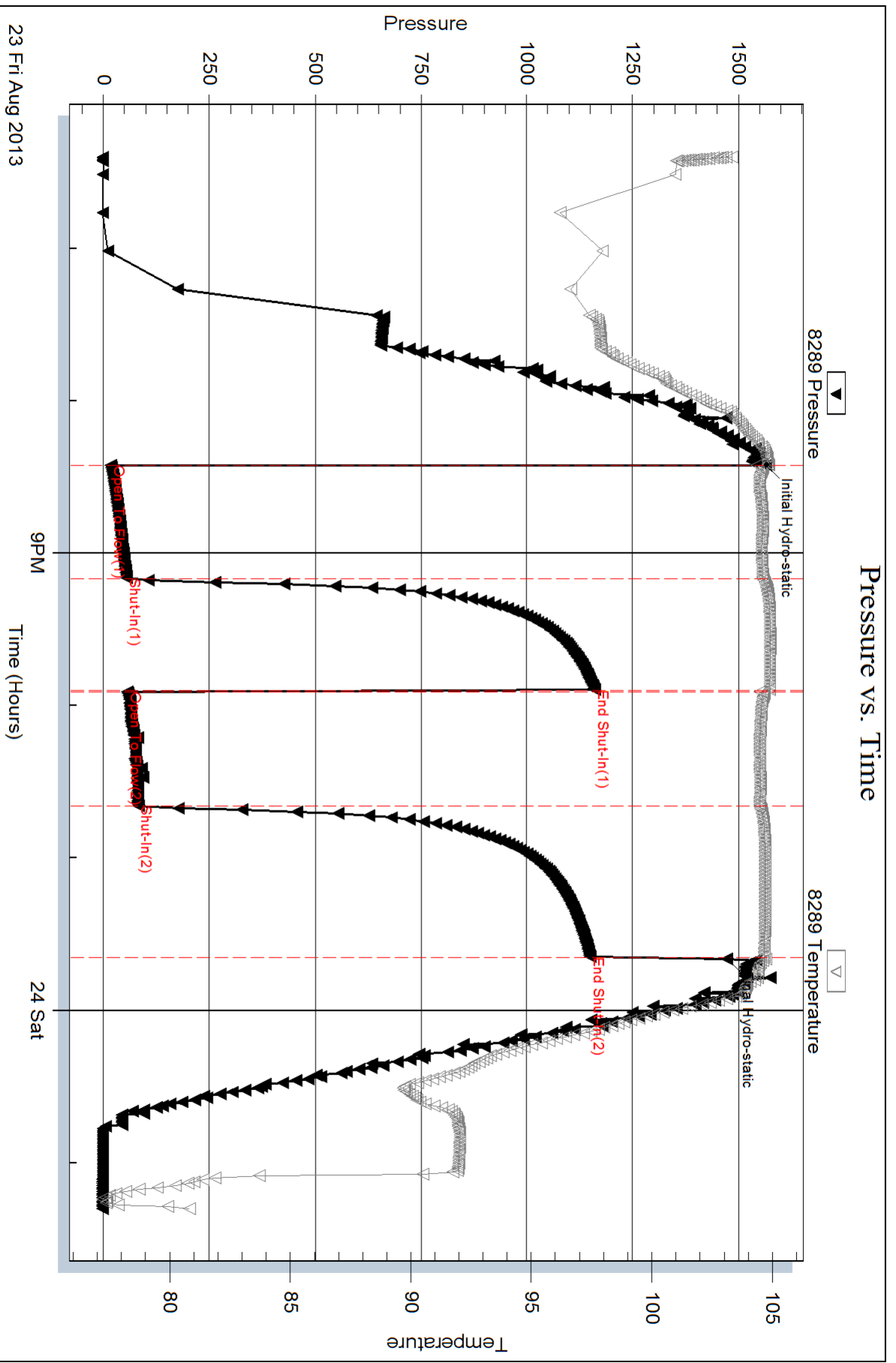
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



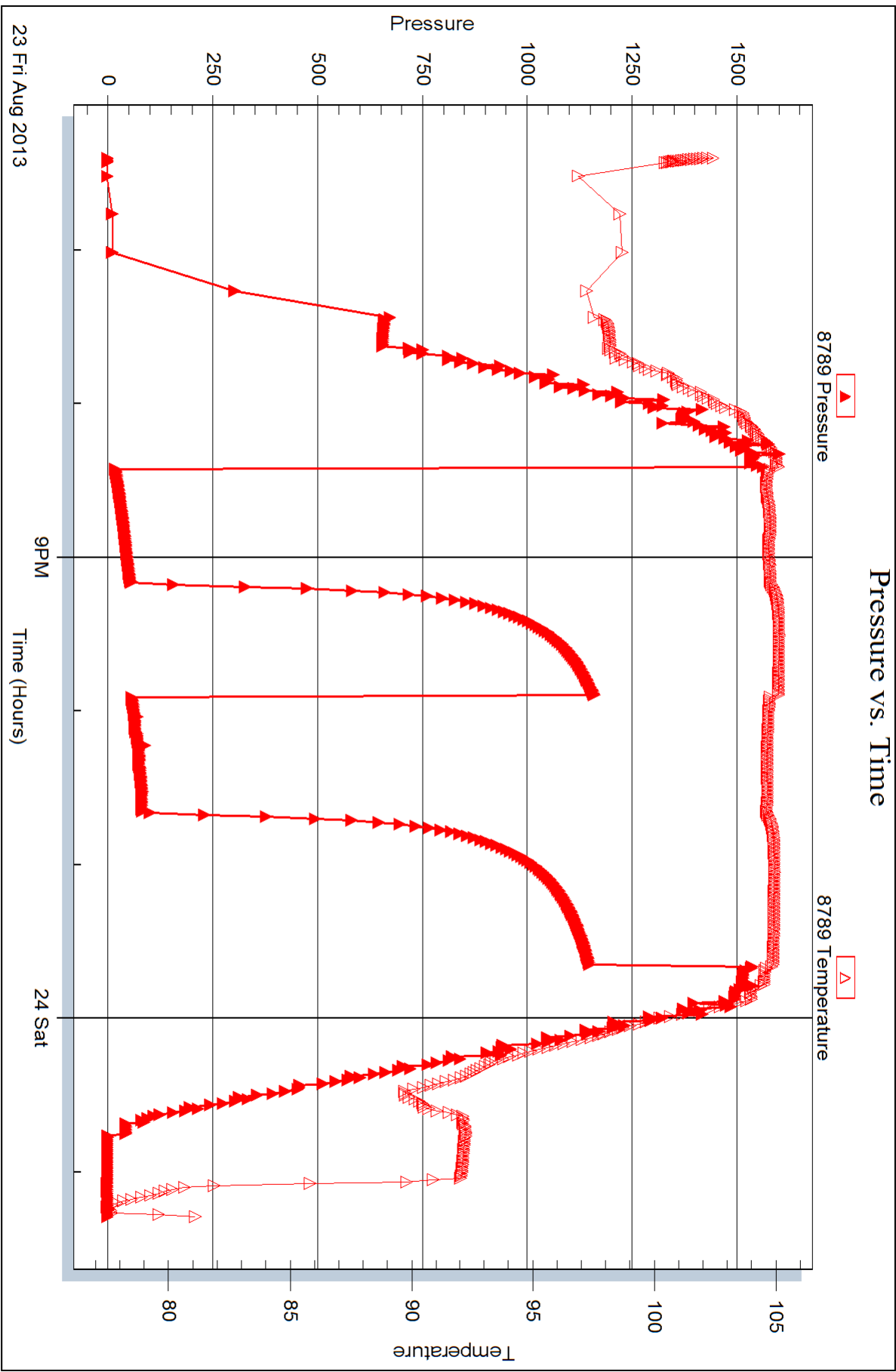
Serial #: 8789

Inside

Bach Oil Production

Oxbow Unit # 1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production**

PO Box 723  
Alma NE 68920-0723

ATTN: Bob Petersen

### **Oxbow Unit # 1**

#### **11-1s-19w Phillips,KS**

Start Date: 2013.08.24 @ 07:07:00

End Date: 2013.08.24 @ 13:43:00

Job Ticket #: 50463                      DST #: 2

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

Printed: 2013.08.26 @ 15:49:12

Bach Oil Production  
11-1s-19w Phillips,KS  
Oxbow Unit # 1  
DST # 2  
LKC "F & G"  
2013.08.24



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Bach Oil Production

**11-1s-19w Phillips,KS**

PO Box 723  
Alma NE 68920-0723

**Oxbow Unit # 1**

Job Ticket: 50463

**DST#: 2**

ATTN: Bob Petersen

Test Start: 2013.08.24 @ 07:07:00

## GENERAL INFORMATION:

Formation: **LKC "F & G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:21:00

Time Test Ended: 13:43:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 54

**Interval: 3315.00 ft (KB) To 3365.00 ft (KB) (TVD)**

Reference Elevations: 2009.00 ft (KB)

Total Depth: 3365.00 ft (KB) (TVD)

2004.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8289 Outside**

Press @ Run Depth: 56.67 psig @ 3316.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.24 End Date: 2013.08.24

Last Calib.: 2013.08.24

Start Time: 07:07:02 End Time: 13:43:00

Time On Btm: 2013.08.24 @ 09:20:45

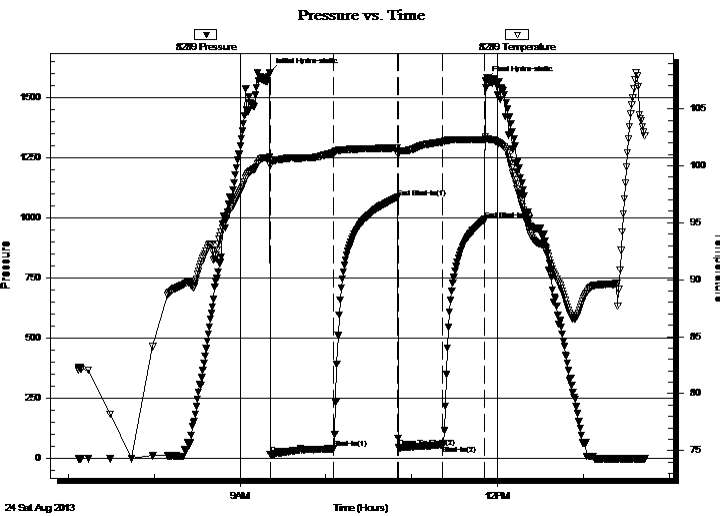
Time Off Btm: 2013.08.24 @ 11:51:30

**TEST COMMENT:** 45-IFP- Very Weak to Surface Blow in 25 min. Building to 1/2"

45-ISIP- No Blow

30-FFP- No Blow

30-FSIP- No Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1604.38	100.75	Initial Hydro-static
1	16.22	100.06	Open To Flow (1)
45	40.67	101.12	Shut-In(1)
90	1085.26	101.57	End Shut-In(1)
90	45.90	101.25	Open To Flow (2)
121	56.67	102.08	Shut-In(2)
151	993.46	102.27	End Shut-In(2)
151	1569.90	102.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
70.00	WCM 40%w 60%m Show of Oil	0.98

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Bach Oil Production

**11-1s-19w Phillips,KS**

PO Box 723  
Alma NE 68920-0723

**Oxbow Unit # 1**

Job Ticket: 50463

**DST#: 2**

ATTN: Bob Petersen

Test Start: 2013.08.24 @ 07:07:00

## Tool Information

Drill Pipe:	Length: 3182.00 ft	Diameter: 2.25 inches	Volume: 15.65 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 3.80 inches	Volume: 1.68 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 17.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3315.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3288.00	
Shut In Tool	5.00			3293.00	
Hydraulic tool	5.00			3298.00	
Jars	5.00			3303.00	
Safety Joint	2.00			3305.00	
Packer	5.00			3310.00	28.00 Bottom Of Top Packer
Packer	5.00			3315.00	
Stubb	1.00			3316.00	
Recorder	0.00	8789	Inside	3316.00	
Recorder	0.00	8289	Outside	3316.00	
Perforations	14.00			3330.00	
Change Over Sub	1.00			3331.00	
Blank Spacing	30.00			3361.00	
Change Over Sub	1.00			3362.00	
Bullnose	3.00			3365.00	50.00 Bottom Packers & Anchor

**Total Tool Length: 78.00**





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Bach Oil Production

**11-1s-19w Phillips,KS**

PO Box 723  
Alma NE 68920-0723

**Oxbow Unit # 1**

Job Ticket: 50463

**DST#: 2**

ATTN: Bob Petersen

Test Start: 2013.08.24 @ 07:07:00

**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:

18000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 3.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
70.00	WCM 40%w 60%m Show of Oil	0.982

Total Length: 70.00 ft      Total Volume: 0.982 bbl

Num Fluid Samples: 0

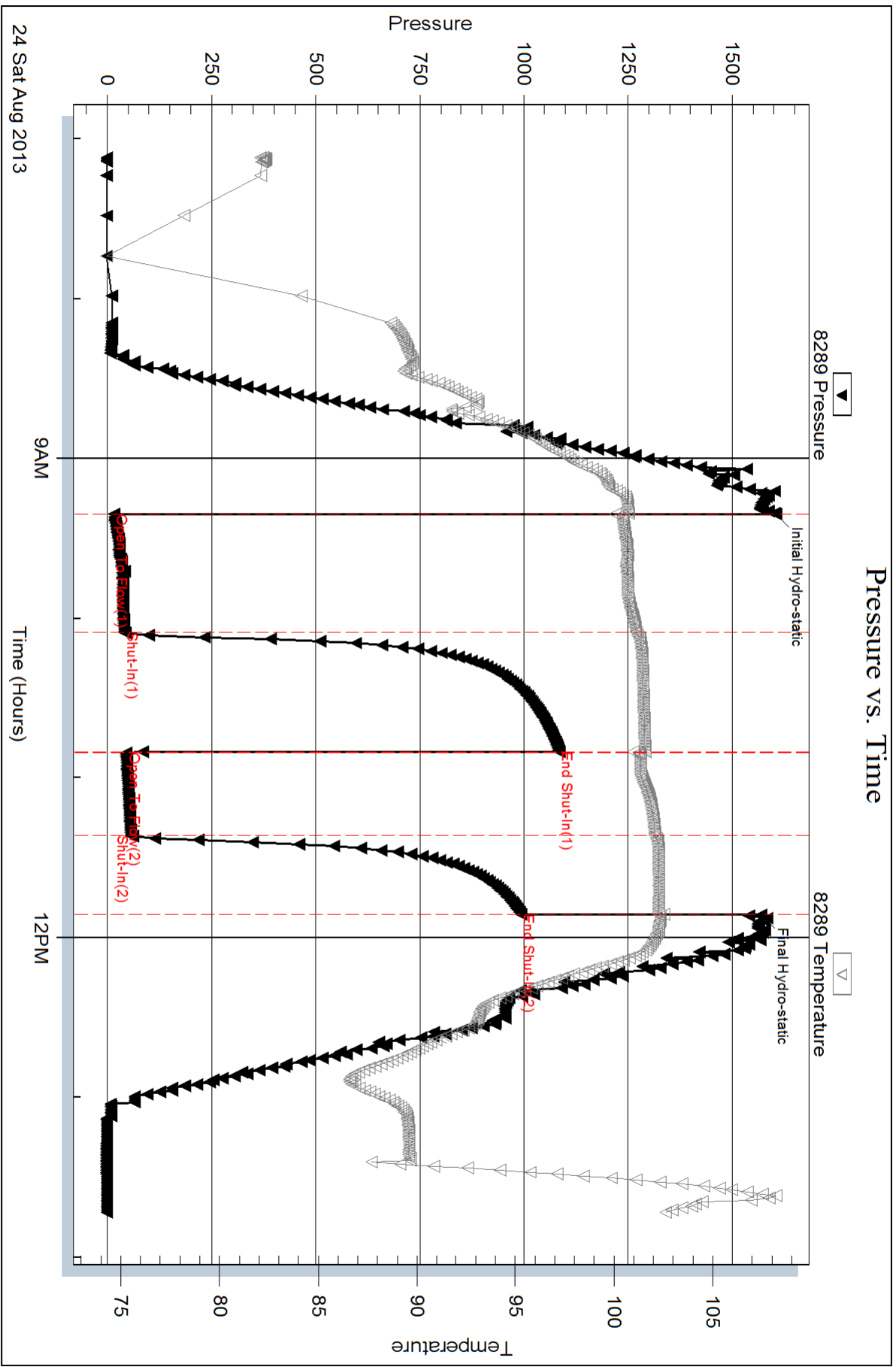
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .282 @ 89



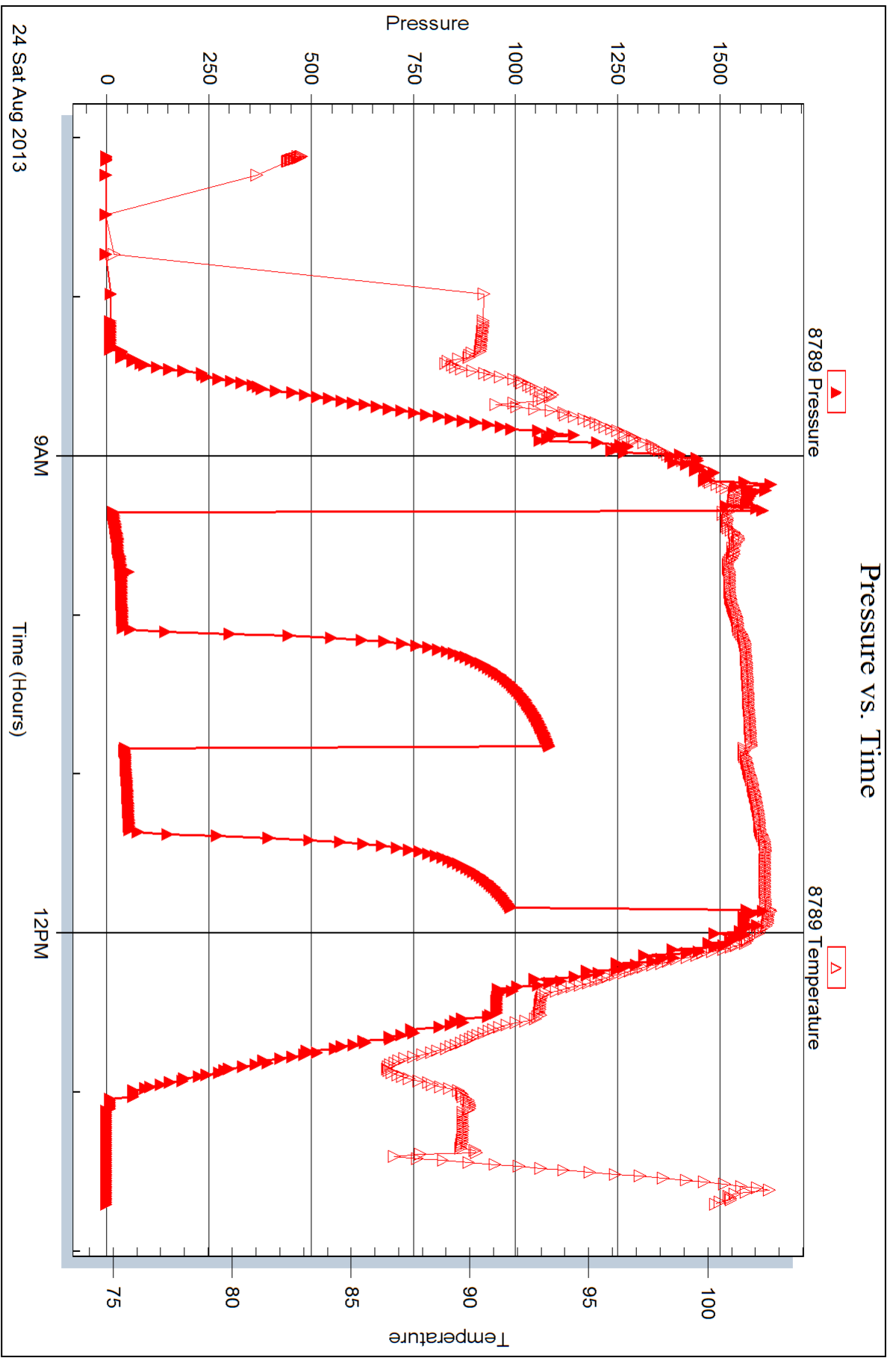
Serial #: 8789

Inside

Bach Oil Production

Oxbow Unit # 1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 50463

Printed: 2013.08.26 @ 15:49:13



## DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production**

PO Box 723  
Alma NE 68920-0723

ATTN: Bob Petersen

### **Oxbow Unit # 1**

#### **11-1s-19w Phillips,KS**

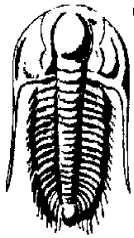
Start Date: 2013.08.25 @ 03:38:00

End Date: 2013.08.25 @ 09:52:00

Job Ticket #: 50464                      DST #: 3

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

Printed: 2013.08.26 @ 15:48:42



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Bach Oil Production

**11-1s-19w Phillips,KS**

PO Box 723  
Alma NE 68920-0723

**Oxbow Unit # 1**

ATTN: Bob Petersen

Job Ticket: 50464

**DST#: 3**

Test Start: 2013.08.25 @ 03:38:00

## GENERAL INFORMATION:

Formation: **LKC " I - TD "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:06:30

Time Test Ended: 09:52:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 54

**Interval: 3388.00 ft (KB) To 3500.00 ft (KB) (TVD)**

Total Depth: 3500.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2009.00 ft (KB)

2004.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8289 Outside**

Press @ Run Depth: 125.82 psig @ 3389.00 ft (KB)

Start Date: 2013.08.25

End Date:

2013.08.25

Start Time: 03:38:02

End Time:

09:52:00

Capacity: 8000.00 psig

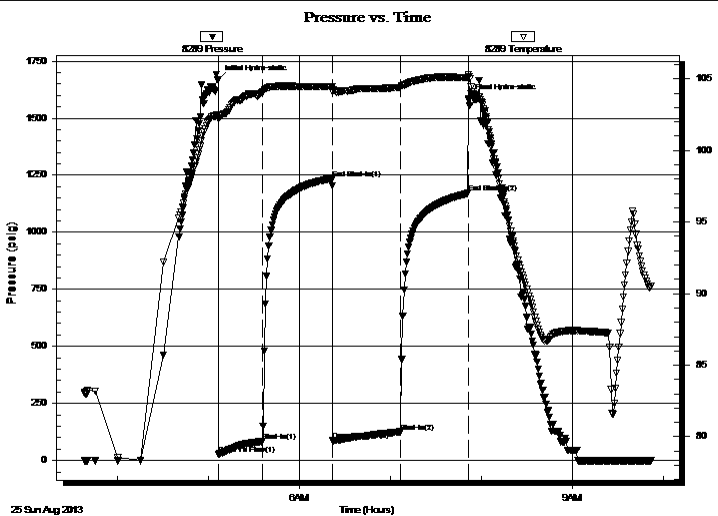
Last Calib.: 2013.08.25

Time On Btm: 2013.08.25 @ 05:06:00

Time Off Btm: 2013.08.25 @ 07:51:15

**TEST COMMENT:** 30-IFP- Surface Blow in 5 min. to BOB in 30 min.  
45-ISIP- No Blow  
45-FFP- Surface Blow in 1 min. to BOB in 38 min.  
45-FSIP- No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1670.02	102.50	Initial Hydro-static
1	27.65	102.21	Open To Flow (1)
30	83.54	104.06	Shut-In(1)
76	1236.25	104.46	End Shut-In(1)
76	88.99	104.10	Open To Flow (2)
121	125.82	104.41	Shut-In(2)
165	1171.09	105.10	End Shut-In(2)
166	1584.66	105.31	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	OCM 35%o 65%m	1.68
60.00	OCM 20%o 80%m	0.30
20.00	OCM 40%o 60%m	0.10
60.00	CO 100%	0.30

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Bach Oil Production

**11-1s-19w Phillips,KS**

PO Box 723  
Alma NE 68920-0723

**Oxbow Unit # 1**

Job Ticket: 50464

**DST#: 3**

ATTN: Bob Petersen

Test Start: 2013.08.25 @ 03:38:00

## Tool Information

Drill Pipe:	Length: 3243.00 ft	Diameter: 2.25 inches	Volume: 15.95 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 3.80 inches	Volume: 1.68 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 17.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3388.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	113.00 ft			
Tool Length:	141.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3361.00	
Shut In Tool	5.00			3366.00	
Hydraulic tool	5.00			3371.00	
Jars	5.00			3376.00	
Safety Joint	2.00			3378.00	
Packer	5.00			3383.00	28.00 Bottom Of Top Packer
Packer	5.00			3388.00	
Stubb	1.00			3389.00	
Recorder	0.00	8789	Inside	3389.00	
Recorder	0.00	8289	Outside	3389.00	
Perforations	14.00			3403.00	
Change Over Sub	1.00			3404.00	
Blank Spacing	93.00			3497.00	
Change Over Sub	1.00			3498.00	
Bullnose	3.00			3501.00	113.00 Bottom Packers & Anchor

**Total Tool Length: 141.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Bach Oil Production

**11-1s-19w Phillips,KS**

PO Box 723  
Alma NE 68920-0723

**Oxbow Unit # 1**

Job Ticket: 50464

**DST#: 3**

ATTN: Bob Petersen

Test Start: 2013.08.25 @ 03:38:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

23 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 3.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	OCM 35%o 65%m	1.683
60.00	OCM 20%o 80%m	0.295
20.00	OCM 40%o 60%m	0.098
60.00	CO 100%	0.295

Total Length: 260.00 ft

Total Volume: 2.371 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

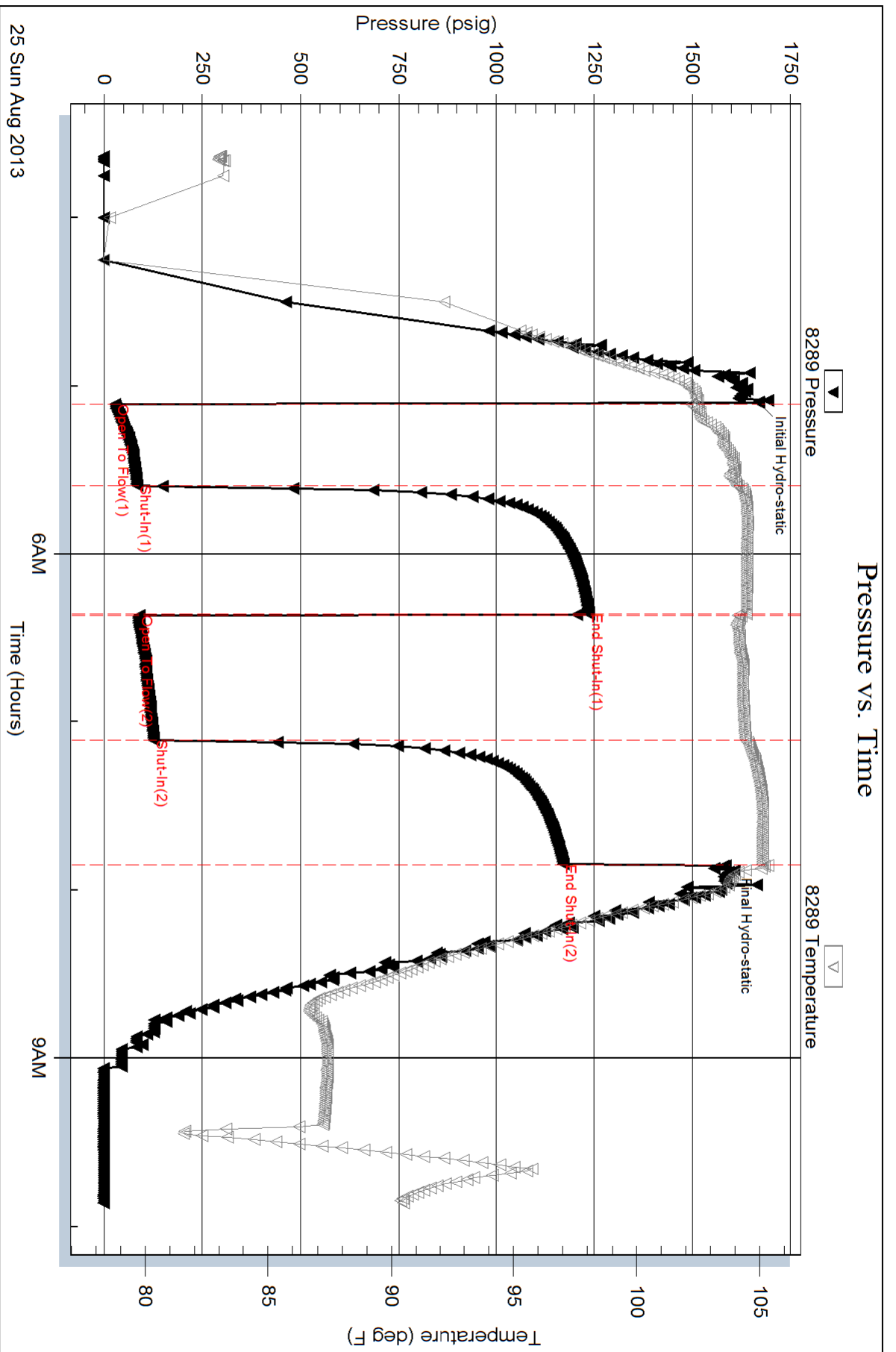
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





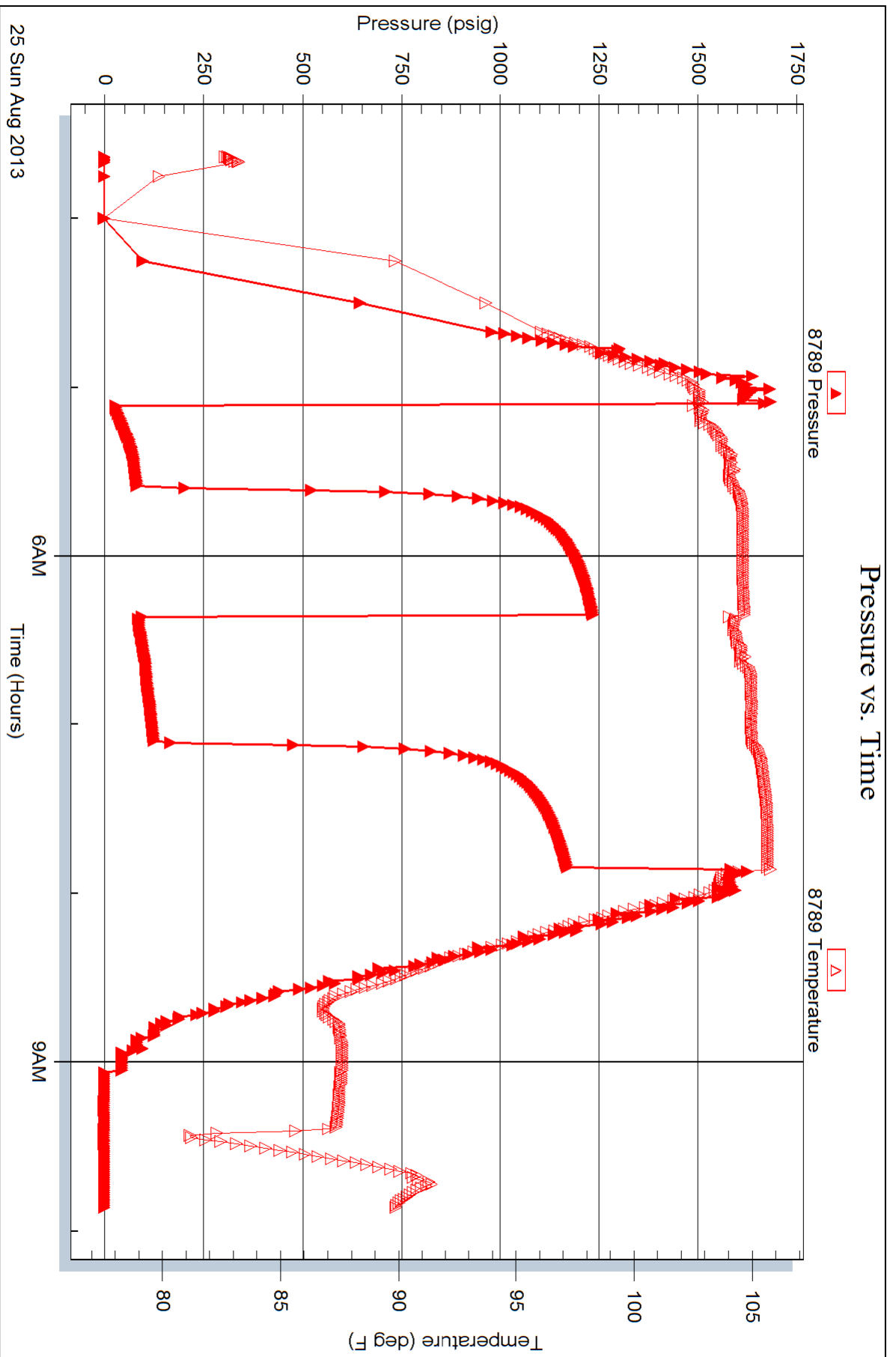
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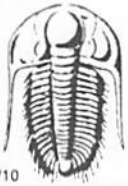
Inside

Bach Oil Production

Oxbow Unit # 1

DST Test Number: 3





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50462

4/10

Well Name & No. Qxbow Unit #1 Test No. 1 Date 8-23-13  
 Company Bach Oil Production Elevation 2009 KB 2004 GL  
 Address P.O. Box 723 Alma NE. 68920-0723  
 Co. Rep / Geo. Bob Petersen Rig Murfin #24  
 Location: Sec. 11 Twp. 15 Rge. 19<sup>w</sup> Co. Phillips State KS

Interval Tested 3248-3330 Zone Tested ARC "A-E."  
 Anchor Length 82 Drill Pipe Run 3120 Mud Wt. 8.9  
 Top Packer Depth 3243 Drill Collars Run 120 Vis 65  
 Bottom Packer Depth 3248 Wt. Pipe Run 9 WL 6.4  
 Total Depth 3330 Chlorides 400 ppm System LCM 4

Blow Description IFP - Surface Blow Building to 2 1/4 in.  
ISIP - No Blow  
FFP - Weak Surface Blow in 25 min.  
FSIP - No Blow

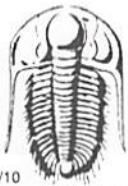
Rec	Feet of	%gas	%oil	%water	%mud
<u>130</u>	<u>cmud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 130 BHT 104 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1565</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>17:43</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>18:24</u>
(C) First Final Flow <u>55</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>20:25</u>
(D) Initial Shut-In <u>1161</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>23:40</u>
(E) Second Initial Flow <u>57</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>01:18</u>
(F) Second Final Flow <u>82</u>	<input checked="" type="checkbox"/> Mileage <u>170 RT</u> 263.50	Comments _____
(G) Final Shut-In <u>1150</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1472</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1738.50</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	<u>Thank You!</u>
	<input type="checkbox"/> Accessibility _____	MP/DS/Disct _____
	Sub Total <u>1738.50</u>	

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.  
785-639-5864





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50463

Well Name & No. Oxbow Unit #1 Test No. 2 Date 8-24-13  
 Company Bach Oil Production Elevation 2009 KB 2004 GL  
 Address P.O. Box 723 Alma NE. 68920-0723  
 Co. Rep / Geo. Bob Peterson Rig Mur Fin #24  
 Location: Sec. 11 Twp. 1<sup>s</sup> Rge. 19<sup>w</sup> Co. Phillips State KS

Interval Tested 3315 - 3365 Zone Tested LKC "F+G"  
 Anchor Length 50 Drill Pipe Run 3182 Mud Wt. 9.1  
 Top Packer Depth 3310 Drill Collars Run 120 Vis 52  
 Bottom Packer Depth 3315 Wt. Pipe Run 0 WL 6.4  
 Total Depth 3365 Chlorides 500 ppm System LCM 3

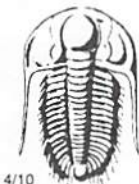
Blow Description IFP - Very Weak to Surface Blow in 25 min. Building to 1/2 in.  
ISIP - No Blow  
FFP - No Blow  
FSIP - No Blow

Rec	Feet of	Shaw of Oil	%gas	%oil	%water	%mud
<u>70</u>	<u>WCM</u>	<u>Shaw of Oil</u>		<u>40</u>	<u>60</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 70 BHT 102 Gravity \_\_\_\_\_ API RW 282 @ 89 °F Chlorides 18,000 ppm

(A) Initial Hydrostatic <u>1604</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>06:30</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>07:07</u>
(C) First Final Flow <u>40</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>09:21</u>
(D) Initial Shut-In <u>1085</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>11:51</u>
(E) Second Initial Flow <u>45</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>13:43</u>
(F) Second Final Flow <u>56</u>	<input checked="" type="checkbox"/> Mileage <u>263.50</u>	Comments _____
(G) Final Shut-In <u>993</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1569</u>	<input type="checkbox"/> Straddle _____	
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>45</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Accessibility _____	Total <u>1738.50</u>
Final Shut-In <u>30</u>		MP/DST Disc't _____
	Sub Total <u>1738.50</u>	

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.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50464

Well Name & No. Oxbow Unit #1 Test No. 3 Date 8-25-13  
 Company Bach Oil Production Elevation 2009 KB 2004 GL  
 Address P.O. Box 723 Alma NE, 68920-0723  
 Co. Rep / Geo. Bob Petersen Rig MURFIN #24  
 Location: Sec. 11 Twp. 1<sup>s</sup> Rge. 19<sup>w</sup> Co. Phillips State KS

Interval Tested 3387-3500 Zone Tested LKC - "I- TD"  
 Anchor Length 113 Drill Pipe Run 3243 Mud Wt. 9.1  
 Top Packer Depth 3382 Drill Collars Run 120 Vis 5.2  
 Bottom Packer Depth 3387 Wt. Pipe Run 0 WL 6.4  
 Total Depth 3500 Chlorides 500 ppm System LCM 3

Blow Description IFP - Surface Blow in 5min. to BOB in 30min  
ISIP - No Blow  
FFP - Surface Blow in 1min to BOB in 30min  
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>OCM</u>	<u>35</u>	<u>65</u>	<u>65</u>	
<u>60</u>	<u>OCM</u>	<u>20</u>	<u>80</u>	<u>80</u>	
<u>20</u>	<u>OCM</u>	<u>40</u>	<u>60</u>	<u>60</u>	
<u>60</u>	<u>CO</u>	<u>100</u>			

Rec Total 260 BHT \_\_\_\_\_ Gravity 23 API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1670  Test 1150 T-On Location 03:07  
 (B) First Initial Flow 27  Jars 250 T-Started 03:30  
 (C) First Final Flow 83  Safety Joint 75 T-Open 05:06  
 (D) Initial Shut-In 1236  Circ Sub \_\_\_\_\_ T-Pulled 07:51  
 (E) Second Initial Flow 88  Hourly Standby \_\_\_\_\_ T-Out 09:52  
 (F) Second Final Flow 125  Mileage 263.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 1171  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1584  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 45  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Flow 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Shut-In 45  Day Standby \_\_\_\_\_ Total 1738.50  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1738.50

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.





PO Box 93999  
Southlake, TX 76092

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

# INVOICE

Invoice Number: 138266  
Invoice Date: Aug 25, 2013  
Page: 1

Now Includes:



<b>Bill To:</b>
Bach Oil Production R. R. #1 Box 28 Phillipsburg, KS 67661

Customer ID	Field Ticket #	Payment Terms	
Bach	54775	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-02	Russell	Aug 25, 2013	9/24/13

Quantity	Item	Description	Unit Price	Amount
		Oxbow #1		
90.00	CEMENT MATERIALS	Class A Common	17.90	1,611.00
60.00	CEMENT MATERIALS	Pozmix	9.35	561.00
3.00	CEMENT MATERIALS	Gel	23.40	70.20
3.00	CEMENT MATERIALS	Chloride	64.00	192.00
16.00	CEMENT MATERIALS	Salt	26.35	421.60
450.00	CEMENT MATERIALS	AMD	25.90	11,655.00
2,250.00	CEMENT MATERIALS	Gilsonite	0.98	2,205.00
735.26	CEMENT SERVICE	Cubic Feet	2.48	1,823.43
1,588.00	CEMENT SERVICE	Ton Mileage	2.60	4,128.80
1.00	CEMENT SERVICE	Long String	2,558.75	2,558.75
50.00	CEMENT SERVICE	Pump Truck Mileage	7.70	385.00
50.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	220.00
1.00	EQUIPMENT SALES	5-1/2 Float Shoe	339.30	339.30
1.00	EQUIPMENT SALES	5-1/2 Latch Down	398.75	398.75
10.00	EQUIPMENT SALES	5-1/2 Centralizer	28.40	284.00
5.00	EQUIPMENT SALES	5-1/2 Basket	159.40	797.00
1.00	CEMENT SUPERVISOR	Robert Yakubovich		
1.00	EQUIPMENT OPERATOR	Woody O'Neil		
1.00	CEMENT SUPERVISOR	Glenn Ginther		
1.00	OPERATOR ASSISTANT	Joe Goodson		

Subtotal	27,650.83
Sales Tax	1,232.57
Total Invoice Amount	28,883.40
Payment/Credit Applied	
<b>TOTAL</b>	<b>28,883.40</b>

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

\$ 7,749.53

ONLY IF PAID ON OR BEFORE  
Sep 19, 2013

# ALLIED OIL & GAS SERVICES, LLC 054775

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Russell KS

DATE <u>8-25-13</u>	SEC. <u>11</u>	TWP. <u>1</u>	RANGE <u>19</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30 AM</u>	JOB FINISH <u>12:00 AM</u>
LEASE <u>Oxbow</u>	WELL# <u>1</u>	LOCATION <u>Phillipsburg Nea 383 3W 15</u>			COUNTY <u>Phillips</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>Winto</u>					

CONTRACTOR Martin 24  
 TYPE OF JOB Long String  
 HOLE SIZE 7 7/8 I.D. 3501  
 CASING SIZE 5 1/2 15.5" DEPTH 3500.94  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT 22.10  
 CEMENT-LEFT IN CSG: 22.10  
 PERFS.  
 DISPLACEMENT 82 3/4 bbl

OWNER  
 CEMENT  
 AMOUNT ORDERED 450 AMD + 5# Gilsomite/sk  
150 6 3/4 2 7/8 gel 10 7/8 salt 2 7/8 cc

EQUIPMENT  
 PUMP TRUCK CEMENTER Robert V  
 # 417 HELPER Woody O  
 BULK TRUCK  
 # 481 DRIVER Glenn G  
 BULK TRUCK  
 # 410 DRIVER Joe G

COMMON	<u>90</u>	@	<u>17.90</u>	<u>1611.00</u>
POZMIX	<u>60</u>	@	<u>9.35</u>	<u>561.00</u>
GEL	<u>3</u>	@	<u>23.40</u>	<u>70.20</u>
CHLORIDE	<u>3</u>	@	<u>64.00</u>	<u>192.00</u>
ASC		@		
Salt	<u>16</u>	@	<u>26.35</u>	<u>421.60</u>
AMD	<u>450</u>	@	<u>25.90</u>	<u>11655.00</u>
Gilsomite	<u>2.750</u>	@	<u>0.98</u>	<u>2205.00</u>
		@		
		@		
		@		
		@		
HANDLING	<u>735.26</u>	@	<u>2.48</u>	<u>1823.43</u>
MILEAGE	<u>1588</u>	@	<u>2.60</u>	<u>4128.80</u>
				TOTAL <u>22668.03</u>

REMARKS:  
ran 85 gal of 5 1/2 15.5" casing receive circulation  
circulate for 1 hr pump 80 bbl & flush  
mix 30 sks in Rathok 15 sks in mouse hole  
405 AMD and 150 6 3/4 down hole  
displace 82 3/4 bbl of water landed  
plug at 2200'  
circulate 35 sks to pit  
cement did circulate to surface  
Thank you

SERVICE  
 DEPTH OF JOB 3501  
 PUMP TRUCK CHARGE 2559.75  
 EXTRA FOOTAGE @  
 MILEAGE 50 H.V.M.I. @ 7.70 385  
 MANIFOLD @  
50 L.V.M.I. @ 4.40 220  
 @

CHARGE TO: Bach Oil  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL 3163.75

PLUG & FLOAT EQUIPMENT  
5 1/2 Float shoe @ 339.30 339.30  
latch down @ 398.75 398.75  
10 Centralizers @ 28.40 284.00  
5 baskets @ 159.40 797.00  
 @  
 TOTAL 1819.05

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

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 27650.83  
 DISCOUNT 7749.53 IF PAID IN 30 DAYS  
net 19901.30

PRINTED NAME Dale Ferland  
 SIGNATURE Dale Ferland



PO Box 93999  
Southlake, TX 76092

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

# INVOICE

Invoice Number: 138115  
Invoice Date: Aug 20, 2013  
Page: 1

<b>Bill To:</b>
Bach Oil Production R. R. #1 Box 28 Phillipsburg, KS 67661

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Bach	54771	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Russell	Aug 20, 2013	9/19/13

Quantity	Item	Description	Unit Price	Amount
		Oxbow #1		
175.00	CEMENT MATERIALS	Class A Common	17.90	3,132.50
3.29	CEMENT MATERIALS	Gel	23.40	76.99
6.00	CEMENT MATERIALS	Chloride	64.00	384.00
188.99	CEMENT SERVICE	Cubic Feet	2.48	468.70
431.48	CEMENT SERVICE	Ton Mileage	2.60	1,121.84
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
50.00	CEMENT SERVICE	Pump Truck Mileage	7.70	385.00
50.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	220.00
1.00	CEMENT SUPERVISOR	Robert Yakubovich		
1.00	EQUIPMENT OPERATOR	Woody O'Neil		
1.00	OPERATOR ASSISTANT	Joe Goodson		

Subtotal	7,301.28
Sales Tax	238.97
Total Invoice Amount	7,540.25
Payment/Credit Applied	
<b>TOTAL</b>	<b>7,540.25</b>

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

\$ 1,825.32

ONLY IF PAID ON OR BEFORE  
Sep 14, 2013



# ALLIED OIL & GAS SERVICES, LLC 054771

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Russell KS

DATE <u>3-20-13</u>	SEC. <u>11</u>	TWP. <u>1</u>	RANGE <u>19</u>	CALLED OUT	ON LOCATION	JOB START <u>7:30pm</u>	JOB FINISH <u>8:00pm</u>
LEASE <u>Oxbow</u>	WELL# <u>1</u>	LOCATION <u>Phillipsburg Nto 383 3W</u>			COUNTY <u>Phillips</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)		LOCATION <u>15 Winto</u>					

CONTRACTOR <u>Murfin 2.4</u>	OWNER
TYPE OF JOB <u>surface</u>	
HOLE SIZE <u>12 1/4</u> T.D. <u>222</u>	CEMENT
CASING SIZE <u>8 5/8 23#</u> DEPTH <u>222</u>	AMOUNT ORDERED <u>175 com 390 cc 270 gal</u>
TUBING SIZE DEPTH	
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON <u>175</u> @ <u>17.90</u> <u>3132.50</u>
MEAS. LINE SHOE JOINT <u>15</u>	POZMIX @
CEMENT LEFT IN CSG. <u>15</u>	GEL <u>3.29</u> @ <u>23.40</u> <u>76.99</u>
PERFS.	CHLORIDE <u>6</u> @ <u>64.00</u> <u>384.00</u>
DISPLACEMENT <u>13 bbl</u>	ASC @
EQUIPMENT	
PUMP TRUCK CEMENTER <u>Robert V</u>	
# <u>417</u> HELPER <u>Woody O</u>	
BULK TRUCK	
# <u>473</u> DRIVER <u>Joe G</u>	
BULK TRUCK	
# DRIVER	
	HANDLING <u>188.99</u> @ <u>2.48</u> <u>468.70</u>
	MILEAGE <u>431.48</u> @ <u>2.60</u> <u>1121.84</u>
	TOTAL <u>5184.03</u>

**REMARKS:**

run 5 jt of 8 5/8 23# csg receive circulation mix 175 com 390 cc 270 gal displace 13 bbl of water shut in

ccment did circulate to surface

Thank you!!

**SERVICE**

DEPTH OF JOB	<u>222</u>
PUMP TRUCK CHARGE	<u>1512.25</u>
EXTRA FOOTAGE @	
MILEAGE <u>50</u> <u>HVMT</u> @ <u>7.70</u>	<u>385.00</u>
MANIFOLD @	
<u>50</u> <u>LVMT</u> @ <u>4.40</u>	<u>220.00</u>
@	

TOTAL 2117.25

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.

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES 7301.28

PRINTED NAME Don Streckler

DISCOUNT 1825.32 IF PAID IN 30 DAYS

SIGNATURE Don Streckler

net \$ 5475.96