



KANSAS CORPORATION COMMISSION 1056407  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009

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: Coffeyville Crude

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  
 Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_

<u>4/19/2011</u>	<u>4/23/2011</u>	<u>5/17/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-147-20641-00-00

Spot Description: \_\_\_\_\_

N2 SW SE NE Sec. 9 Twp. 4 S. R. 20  East  West  
2100 Feet from  North /  South Line of Section  
990 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

County: Phillips

Lease Name: Archer Well #: 1

Field Name: Wildcat

Producing Formation: LKC

Elevation: Ground: 2065 Kelly Bushing: 2070

Total Depth: 3530 Plug Back Total Depth: 3513

Amount of Surface Pipe Set and Cemented at: 220 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: 3530

feet depth to: 0 w/ 550 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 13500 ppm Fluid volume: 550 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

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: Deanna Garrison Date: 08/08/2011



1056407

Operator Name: Bach, Jason dba Bach Oil Production Lease Name: Archer Well #: 1  
 Sec. 9 Twp. 4 S. R. 20  East  West County: Phillips

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	1680	+390
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Base Anhydrite	1707	+363
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Topeka	3049	-979
List All E. Logs Run:		Heebner	3243	-1173
Rag		Toronto	3270	-1200
		Lansing	3286	-1216
		Base Kansas City	3485	-1415

CASING RECORD <input checked="" 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
Surface	12.25	8.625	20	220	COM	160	3% CC/2% Gel
Production	7.875	5.5	14	3530	AMD	550	10% Salt/2% Gel

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				

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
4	'D' @ 3336' to 3340'	750 gal 20% NEFE	
4	'I' @ 3432' to 3438	300 gal 15% MCA; retreat 750 gal 20% NEFE	

TUBING RECORD:	Size: <u>2 3/8"</u>	Set At: <u>3485</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>5/23/2011</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls. <u>15</u>	Gas Mcf	Water Bbls. <u>70</u>	Gas-Oil Ratio <u>30</u>

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



P.O. BOX 31 Russell, KS.67665

# INVOICE

Invoice Number: 126958

Invoice Date: Apr 19, 2011

Page: 1

Voice: (785) 483-3887

Fax: (785) 483-5566

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

Customer ID	Well Name # or Customer P.O.	Payment Terms	
Bach	Archer #1	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Russell	Apr 19, 2011	5/19/11

Quantity	Item	Description	Unit Price	Amount
160.00	MAT	Class A Common	16.25	2,600.00
3.00	MAT	Gel	21.25	63.75
5.00	MAT	Chloride	58.20	291.00
168.00	SER	Handling	2.25	378.00
70.00	SER	Mileage 168 sx @ .11 per sk per mi	18.48	1,293.60
1.00	SER	Surface	1,125.00	1,125.00
140.00	SER	Pump Truck Mileage	7.00	980.00
140.00	SER	Light Truck Mileage	4.00	560.00
1.00	CEMENTER	Glenn Ginther		
1.00	OPER ASSIST	Woody O'Neil		
1.00	OPER ASSIST	Mark Radke		

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

\$ 14,582.77

ONLY IF PAID ON OR BEFORE  
May 14, 2011

Subtotal	7,291.35
Sales Tax	200.92
Total Invoice Amount	7,492.27
Payment/Credit Applied	
<b>TOTAL</b>	<b>7,492.27</b>

# ALLIED CEMENTING CO., LLC. 039680

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

SERVICE POINT:  
Russell Ks.

DATE <u>4-19-2011</u>	SEC <u>9</u>	TWP. <u>4 S</u>	RANGE <u>20 W</u>	CALLED OUT	ON LOCATION	JOB START <u>6:00 PM</u>	JOB FINISH <u>6:30 PM</u>
LEASE <u>ARKER</u>	WELL # <u>1</u>	LOCATION <u>Logan, KS</u>		<u>4 N. 3/4 W 1/4 S EXT</u>		COUNTY <u>Phillips</u>	STATE <u>KANSAS</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR MURFIN DRUG, Rig #16

TYPE OF JOB Cement Surface

HOLE SIZE 12 1/4 " I.D. 220'

CASING SIZE 8 5/8 23# DEPTH 219'

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. 15'

PERFS. \_\_\_\_\_

DISPLACEMENT 13.05 / BBL

OWNER \_\_\_\_\_

CEMENT

AMOUNT ORDERED 160.5x 5x Comm

2% GEL

3% CC

COMMON	<u>160</u>	@ <u>16.25</u>	<u>2600.00</u>
POZMIX		@	
GEL	<u>3</u>	@ <u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>5</u>	@ <u>58.25</u>	<u>291.25</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>16.8</u>	@ <u>2.25</u>	<u>378.00</u>
MILEAGE	<u>116.5</u>	@ <u>1.25</u>	<u>145.625</u>
TOTAL			<u>4626.35</u>

EQUIPMENT

PUMP TRUCK CEMENTER Genny

# 398 HELPER woody

BULK TRUCK

# 410 DRIVER MARK

BULK TRUCK

# \_\_\_\_\_ DRIVER \_\_\_\_\_

REMARKS:

RAN 5 JOBS 8-78 23# CSG.

Set @ 219' Receive Circulation

4 mixed 160.5x Comm 3.4% Displace 13 BBL

H<sup>2</sup>O shot in @ 250'

Cement did circulate

to surface

THANKS

CHARGE TO: Bach Oil Production

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE		@	<u>1125.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>140</u>	@ <u>7.00</u>	<u>980.00</u>
MANIFOLD		@	
<u>6 in 140</u>		@ <u>4.00</u>	<u>560.00</u>
		@	
TOTAL			<u>2665.00</u>

PLUG & FLOAT EQUIPMENT

To Allied Cementing Co., LLC.

You are hereby requested to rent cementing equipment



PO BOX 31 Russell, KS 67665

# INVOICE

Invoice Number: 127006

Invoice Date: Apr 23, 2011

Page: 1

Voice: (785) 483-3887

Fax: (785) 483-5566

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

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Bach	Archer #1	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-02	Russell	Apr 23, 2011	5/23/11

Quantity	Item	Description	Unit Price	Amount
90.00	MAT	Class A Common	16.25	1,462.50
60.00	MAT	Pozmix	8.50	510.00
3.00	MAT	Gel	21.25	63.75
750.00	MAT	Gilsonite	0.89	667.50
400.00	MAT	AMD	23.55	9,420.00
13.00	MAT	Salt	21.95	285.35
572.00	SER	Handling	2.25	1,287.00
45.00	SER	Mileage 572 sx @ .11 per sk per mi	62.92	2,831.40
1.00	SER	Production String	2,225.00	2,225.00
90.00	SER	Pump Truck Mileage	7.00	630.00
90.00	SER	Light Vehicle Mileage	4.00	360.00
1.00	EQP	5.5 Float Shoe	245.00	245.00
1.00	EQP	5.5 Latch Down Plug Assembly	194.00	194.00
12.00	EQP	5.5 Centralizer	34.00	408.00
3.00	EQP	5.5 Basket	236.00	708.00
1.00	CEMENTER	Glenn Ginther		
1.00	OPER ASSIST	Woody O'Neil		
1.00	OPER ASSIST	Mark Radke		

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

**\$ 4,259.39**

ONLY IF PAID ON OR BEFORE

**May 18, 2011**

Subtotal	21,297.50
Sales Tax	949.56
Total Invoice Amount	22,247.06
Payment/Credit Applied	
<b>TOTAL</b>	<b>22,247.06</b>

# ALLIED CEMENTING CO., LLC. 039685

ATTN: P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Russell Ks.

DATE <u>7-23-2011</u>	SEC <u>9</u>	TWP. <u>4S</u>	RANGE <u>20W</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00PM</u>	JOB FINISH <u>8:30PM</u>
LEASE <u>ARCHER</u>	WELL # <u>1</u>	LOCATION <u>Logan Ks. 1300<sup>RD</sup> 4N 3/4 W</u>			COUNTY <u>PHILLIPS</u>	STATE <u>KANSAS</u>	
OLD OR <u>NEW</u> (Circle one)				<u>1/2 S INTO</u>			

CONTRACTOR MURFIN DRUG. Rig #16  
 TYPE OF JOB PRODUCTION STRINGER  
 HOLE SIZE 7 7/8 T.D. 3530  
 CASING SIZE 5 1/2 New DEPTH 3529  
 TUBING SIZE 14 # CSG DEPTH  
 DRILL PIPE DEPTH  
 TOOL LATCH DN. Plug Assy DEPTH 3515  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT 14.59  
 CEMENT LEFT IN CSG 14.59

PERFS  
 DISPLACEMENT 85.77 / BBL

**EQUIPMENT**

PUMP TRUCK CEMENTER Glenn  
 # 398 HELPER Woody  
 BULK TRUCK  
 # 423 DRIVER Todd  
 BULK TRUCK  
 # 410 DRIVER Mark

OWNER

CEMENT

AMOUNT ORDERED 150 SX / 40 10% SALT  
22 GEL 5# GILSONITE PER SX  
400 SX AMD.

COMMON	<u>90</u>	@ <u>16.25</u>	<u>1462.50</u>
POZMIX	<u>60</u>	@ <u>8.50</u>	<u>510.00</u>
GEL	<u>3</u>	@ <u>21.25</u>	<u>63.75</u>
CHLORIDE		@	
ASC		@	
<u>Gilsonite</u>	<u>750#</u>	@ <u>1.89</u>	<u>667.50</u>
<u>AMD</u>	<u>400</u>	@ <u>23.55</u>	<u>9420.00</u>
<u>Salt</u>	<u>13</u>	@ <u>21.95</u>	<u>285.35</u>
		@	
		@	
		@	
		@	
HANDLING	<u>572</u>	@ <u>2.25</u>	<u>1287.00</u>
MILEAGE	<u>111.4</u>	@ <u>25.80</u>	<u>2874.12</u>
			<b>TOTAL</b> <u>16,527.20</u>

**REMARKS:**

REN 8 - IT'S NEW 5 1/2 CSG (14#)  
SET @ 3529. CIRCULATE ON BOTTOM  
FOR 1 HR, GRAB W/ 400 SX AMD. FOLLOWED BY  
150 SX 40 10% SALT, 22 GEL 5# GILSONITE PER SX  
CLEARLINE, REBASE PLUG, & DISPLACE 85 3/4 BBL -  
LAND LATCH DN. PLUG @ 1700 FT. REBASE @ (HELD)  
30 SX @ RAT HOLE  
15 SX @ Mouse Hole  
THANKS

**SERVICE**

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>2225.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>111.4</u>	@ <u>7.00</u>	<u>680.00</u>
MANIFOLD		@	
<u>LUN</u>	<u>90</u>	@ <u>4.00</u>	<u>360.00</u>
			<b>TOTAL</b> <u>3215.00</u>

CHARGE TO: Jason Bach Oil Co.  
 STREET

CITY STATE ZIP

**\*Cement DID CIRCULATE TO SURFACE**  
 Pumped APPROX 40 SX INTO PIT.

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment

52.00

**PLUG & FLOAT EQUIPMENT**

<u>Float Shoe</u>			<u>245.00</u>
<u>LATCH DOWN PLUG ASSY</u>	@		<u>194.00</u>
<u>12 CENTRALIZERS</u>	@	<u>34.00</u>	<u>408.00</u>
<u>3 BASKETS</u>	@	<u>236.00</u>	<u>708.00</u>
	@		
	@		

# GEOLOGIST'S REPORT

## DRILLING TIME AND SAMPLE LOG

**BACH OIL PRODUCTION**

**WELL: ARCHER #1**

**LOC.: 2100' FNL & 990' FEL**  
**SEC. 9-4-20W**

**PHILLIPS COUNTY, KANSAS**  
**API: 15-147-20641-00-00**

---

**DRILLING CONTR.: MURFIN RIG #16**  
**SPUD: 04-19-11 COMP: 04-23-11**  
**MUD UP: 2800' TYPE MUD: CHEM.**  
**DRILL TIME: 2900-RTD**  
**RTD: 3530' LTD: 3530'**  
**SAMPLES SAVED: 2900'-RTD**  
**GEOLOGIST: ROBERT J. PETERSEN**

**ELEVATION**

**KB: 2070'**  
**GL: 2065'**

**LOG MEASURED FROM: KB**

**SURFACE CASING**

8 5/8" surface csg.  
Set @220' KB.  
Cem. w/160sx Common,  
3% CC, 2% Gel.

**PRODUCTION CASING**

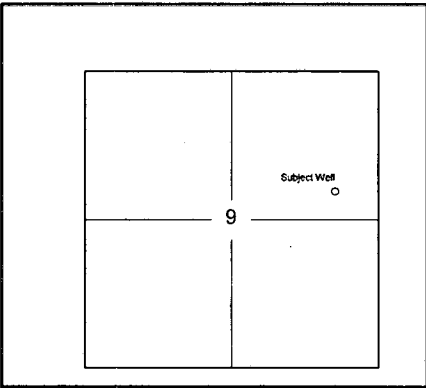
5 1/2" Set @3530'

**WELL LOG SURVEYS**

RAG

**ELECTRIC LOG TOPS**

FORMATION	DEPTH	DATUM	POSITION
Stone Corral	1680	+390	+1
Base Stone Corral	1707	+363	+1
Topeka	3049	-979	+22
Heebner	3243	-1173	+24
Toronto	3270	-1200	+25
Lansing	3286	-1216	+27
Base Kansas City	3485	-1415	+24



**REFERENCE WELL:**

F&M  
Krouse #1  
C SW SW  
4-4-20W  
2107 KB

**DAILY REPORT**

**@7:00 A.M.**

4-19-11 MIRU, SPUD  
4-20-11 740' Drilling  
4-21-11 2390' Drilling  
4-22-11 3240' Drilling  
4-23-11 3530' RTD Logging

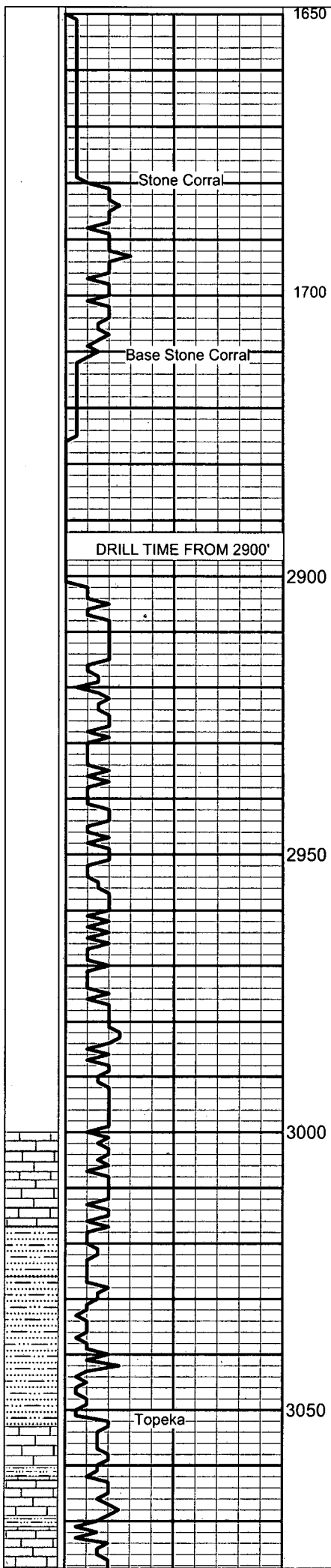
**REMARKS AND RECOMMENDATIONS**

Production casing has been run to further test this well for commercial production.

Respectfully submitted,

*Robert J. Petersen*  
Robert J. Petersen April 26, 2011

DRILL TIME MIN./FT		
0	5	10



SAMPLE DESCRIPTION

LS; Cream/lt gray, fine crystalline to dense, chalky + SH; Red (20)

LS; Lt gray/cream, fine crystalline to dense, foss, chalky + SH; Gray, silty (40)

SH; Black (50)

LS; Cream/lt gray, fine crystalline, sl dolomitic/chalky, foss (60)

SH; Gray (70)

SH; Gray, silty-sandy (80)

LS; Gray/tan, fine crystalline to dense, sl foss, chaly, sl cherty (90)

SS; Gray, fine grained, silty + SH; Gray (3000)

LS; Gray/cream/tan, fine crystalline to dense, foss, argillaceous in part, mottled (10)

SH; Gray, silty, sandy (20)

LS; Cream/gray, fine crystalline, fossil mottled + SH; Gray, silty (30-40)

SH; Dark gray, silty (40)

SS; Gray, fine grained, calcareous (50)

SS; Gray, fine to medium, silty, calcareous, trace mineral stain + SH; Gray (60)

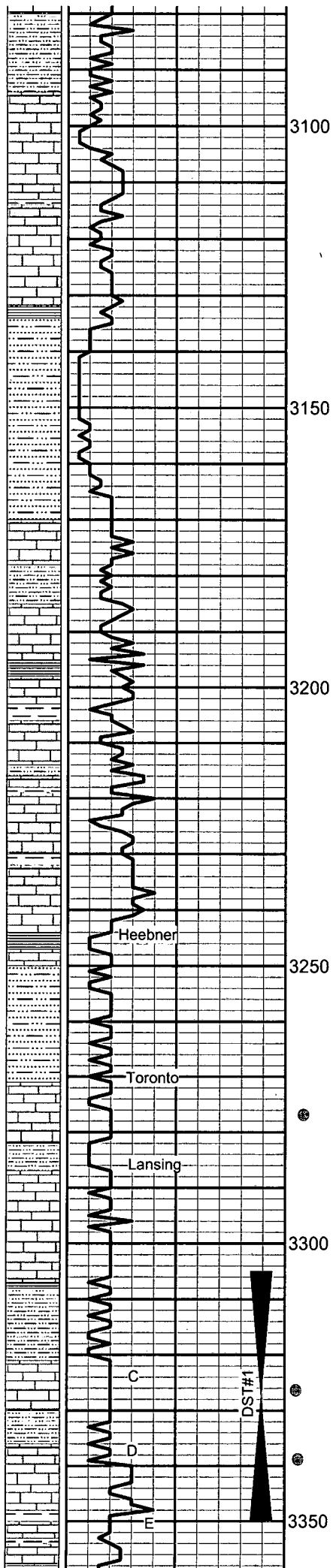
LS; Cream/gray, fine crystalline, fossil-mottled + SH; Dark gray (80)

LS; Cream, fine crystalline to dense, foss, cherty + SH; Gray, silty (90)

SS; Gray, silty + SH; Gray (3100)

Vis 76  
Wt 8.7  
LCM 4#





SS; Gray, fine grained, subangular, friable (10)

LS; Cream, fine crystalline, foss (10)

3100

LS; Cream, fine crystalline to dense, foss, chalky, soft, cherty (angular-blocky)(20)

LS; Cream, fine crystalline, fossiliferous-granular w/fair fossilcast por, sl chalky (30)

LS; Cream/lt gray, fine crystalline, fossiliferous, dolomitic, chalky (40)

LS; Cream, fine crystalline, fossiliferous-subgranular, very dolomitic, chalky (soft) (50)

SH; Black (60)

SH; Red/gray (60)

3150

SD; Tan, fine grained, friable, silty-gummy (70)

SD; Gray, fine grained, fraibel + SH; Red, silty, soft (80)

LS; Cream, fine crystalline, foss, dolomitic, chalky (90)

SH; Gray, silty, sandy (3200)

LS; Lt gray, fine crystalline, sl foss, dolomitic (10)

SH; Black (10)

SH; Green/gray/red (20)

3200

LS; Cream, fine crystalline, fossiliferous-subgranular, dolomitic, trace stain (20)

SH; Red (30)

LS; Cream/gray, fine crystalline, fossil-mottles, sl chalky (30)

LS; Lt gray/cream, fine crystalline, fossiliferous-subgranular, chalky + LS; Gray, dense (40)

LS; Lt gray, fine crystalline to dense, sl foss, cherty (50)

SH; Black (flood 60)

LS; Tan/lt gray, fine crystalline, sl foss, hard (60)

SH; Red, silty-sandy +SD, gray, fine grained, well-cemented to friable (70)

SH; Red/gray, silty-sandy (80)

Heebner

3250

Toronto

Lansing

LS; Cream, fine crystalline, fossiliferous-granular, poorly sorted w/fair tp good intergranular and fossilcast por, sl dolomitic, sfo, odro, light to medium brown stain on dry (80)

LS; Cream/lt gray, fine crystalline, fossiliferous, subgranular in part, sl dolo, chalky (90)

SH; Red/gray, silty (3300)

LS; Cream, fine crystalline, foss, w/some inter-foss por, chalky, cherty, ssfo, faint odor (3300)

LS; Cream/white, fine crystalline to dense, sl foss, chalky (10)

LS; Cream/lt gray, dense, chalky (20)

SH; Black (20)

SH; Red/gray (30)

3300

C

D

E

DST #1

3350

LS; Cream, fine crystalline, foss, w/fair fossil-cast por, cherty (cream/translucent to opaque) sfo, faint odor (30)

LS; Cream, fine crystalline, sl dolo, fossiliferous in-part, poor to fair intergran/moldic por, cherty (tan/brown, angular to blocky) sfo, ft odor, full-sat on dry(30/30")

LS; Cream, fine crystalline to dense, chalky (40)

SH; Red/gray (40)

LS; Cream, fine crystalline, foss, dolomitic, cherty + chert inclusions w/good vug por, gsfo, odor, heavy full saturation on dry (50)

SH; Red/gray (50/20")

LS; Cream, fine crystalline, foss, chalky, cherty w/chert inclusion (50/40-60")

SH; Red/gray (70)

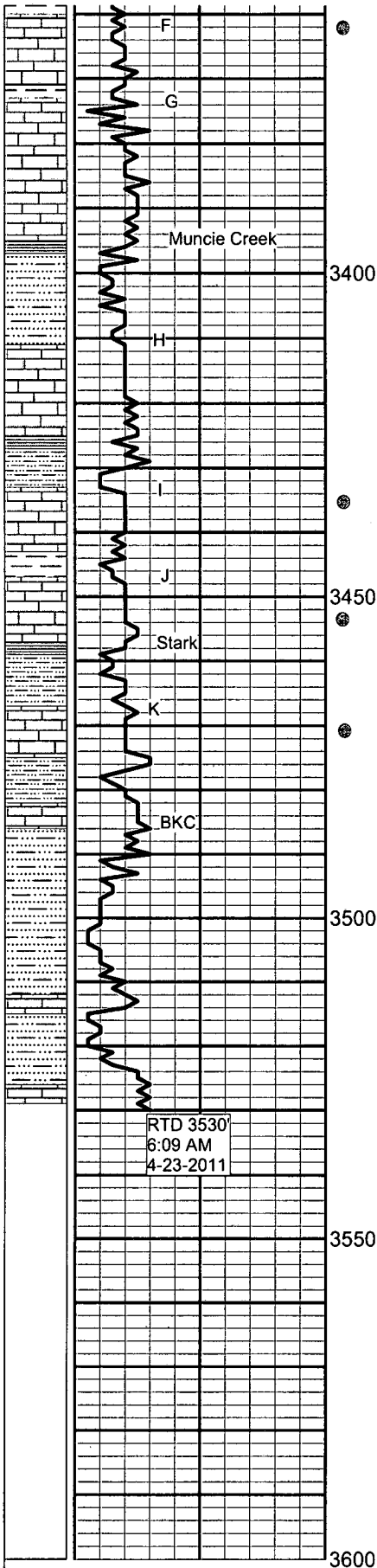
LS; Cream, fine crystalline, foss, sl chalky (70)

Vis 69  
Wt 8.8  
LCM 4#

SHORT TRIP  
3240'

DST #1  
3305-3350"  
15-45-30-60"  
IF: Bottom of bucket in 6 min.  
ICIP: Weak return blow  
FF: Bottom of bucket in 8 min.  
FCIP: 1" blow died in 43 min.  
Recovered:  
150' GIP  
60' OCM  
120' GMWCO  
90' M&WCO  
90' GW &MCO  
SIP: 953-938#  
FP: 60-121/126-187#

Vis 53  
Wt 8  
LCM 4#



LS; Cream, fine crystalline, foss/oolitic/sl dolo, w/fair to good, vug por, ssfo, w/even sat, light to medium brown stain on dry (80)

LS; Cream, dense, chalky (90)

SH; Red/gray (90)

LS; Cream/lt gray, fine crystalline to dense, chalky, cherty (3400)

LS; Lt gray, fine crystalline to dense, foss, cherty (10)

SH; Black (10)

SH; Red/gray, silty-sandy (20)

LS; Cream/lt gray, fine crystalline, foss, chalky, cherty (30)

SH; Black (40)

SH; Red/gray (40-50)

LS; Cream, fine crystalline to dense, dolomitic, blocky, w/pinpoint intercrystalline por + fracture por, gsfo (black/brown), odor, sark sat on dry (50)

LS; Cream, fine crystalline to dense, foss, w/fair to good intercrystalline/foss, por, gsfo, odor (60)

SH; Dark gray (60)

LS; Cream, fine crystalline, foss w/fair fossil-cast ppt por, patchy stain, sfo, faint odor, med brown stain on dry (70-80)

SH; Black (80)

SH; Red/gray, silty (80)

Vis 52  
Wt 9.0  
LCM 3.5#

LS; Cream/lt gray, fine crystalline, sl foss, chalky, trace poor ppt por, light stain (90/3500)

SH; Gray, silty w/trace SS; Clear, coarse, well-rounded, friable (3400/10)

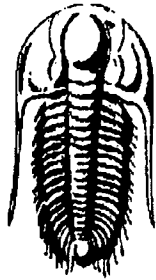
LS; Cream/lt gray, fine crystalline to dense, foss/ool, trace vug por, sl stain (10)

SH; Red/gray, silty-sandy (20)

VIS 64  
WT 9.1  
LCM 4#

LS; Cream/white, dense, chalky + SH; Red, silty, sandy (30)

RTD 3530  
6:09 AM  
4-23-2011



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production Inc**

PO Box 723  
Alma, Ne 68920

ATTN: Bob Peterson

**9-4-20 Phillips,KS**

**Archer #1**

Start Date: 2011.04.22 @ 15:45:36

End Date: 2011.04.22 @ 21:24:35

Job Ticket #: 42551                      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Bach Oil Production Inc

**Archer #1**

PO Box 723  
Alma, Ne 68920

**9-4-20 Phillips,KS**

Job Ticket: 42551

**DST#: 1**

ATTN: Bob Peterson

Test Start: 2011.04.22 @ 15:45:36

## GENERAL INFORMATION:

Formation: **LKC "A-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:13:05

Time Test Ended: 21:24:35

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: **3305.00 ft (KB) To 3350.00 ft (KB) (TVD)**

Reference Elevations: 2070.00 ft (KB)

Total Depth: 3350.00 ft (KB) (TVD)

2065.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8372**

**Inside**

Press@RunDepth: 187.41 psig @ 3310.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.22

End Date:

2011.04.22

Last Calib.: 2011.04.22

Start Time: 15:45:36

End Time:

21:24:35

Time On Btm: 2011.04.22 @ 17:12:05

Time Off Btm: 2011.04.22 @ 19:45:35

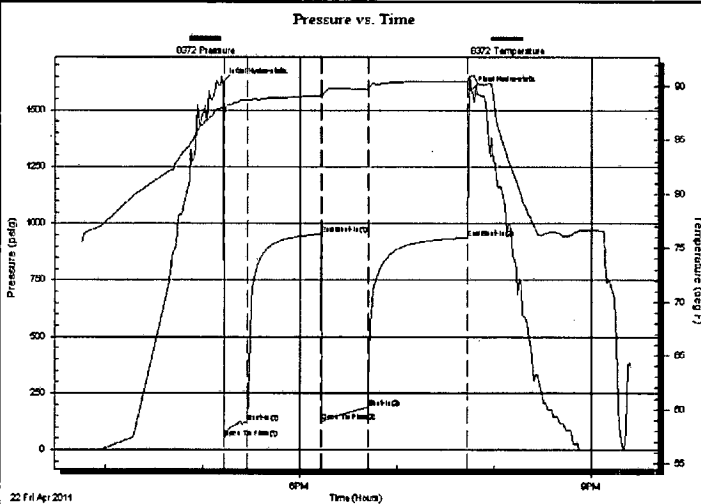
## TEST COMMENT:

IFP - BOB 6 min

ISI - sur blow back - died 12 min

FFP - BOB 8 min

FSI - 1" blow back - died 42 min



## PRESSURE SUMMARY

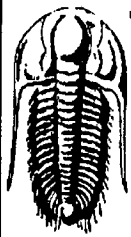
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1622.20	87.97	Initial Hydro-static
1	52.29	87.29	Open To Flow (1)
16	121.35	88.71	Shut-In(1)
61	953.36	89.15	End Shut-In(1)
62	126.17	88.84	Open To Flow (2)
90	187.41	89.75	Shut-In(2)
152	937.88	90.45	End Shut-In(2)
154	1589.82	90.99	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	GW & MCO 5%G, 40%O, 25%W, 30%M	0.46
90.00	M & WCO 60%O, 30%W, 10%M	1.26
120.00	GM & WCO 5%G, 85%O, 5%W, 5%M	1.68
60.00	OCM 20%O, 80%M	0.84
0.00	150' GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Bach Oil Production Inc

**Archer #1**

PO Box 723  
Alma, Ne 68920

**9-4-20 Phillips, KS**

Job Ticket: 42551

**DST#: 1**

ATTN: Bob Peterson

Test Start: 2011.04.22 @ 15:45:36

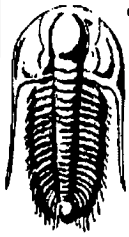
### Tool Information

Drill Pipe:	Length: 3202.00 ft	Diameter: 3.80 inches	Volume: 44.92 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: 88.00 ft	Diameter: 2.25 inches	Volume: 0.43 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 45.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3305.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3283.00	
Hydraulic tool	5.00			3288.00	
Jars	5.00			3293.00	
Safety Joint	2.00			3295.00	
Packer	5.00			3300.00	27.00 Bottom Of Top Packer
Packer	5.00			3305.00	
Stubb	1.00			3306.00	
Perforations	3.00			3309.00	
Change Over Sub	1.00			3310.00	
Recorder	0.00	8372	Inside	3310.00	
Recorder	0.00	8734	Outside	3310.00	
Blank Spacing	31.00			3341.00	
Change Over Sub	1.00			3342.00	
Perforations	5.00			3347.00	
Bullnose	3.00			3350.00	45.00 Bottom Packers & Anchor

**Total Tool Length: 72.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Bach Oil Production Inc

**Archer #1**

PO Box 723  
Alma, Ne 68920

**9-4-20 Phillips,KS**

Job Ticket: 42551

**DST#: 1**

ATTN: Bob Peterson

Test Start: 2011.04.22 @ 15:45:36

## 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: 61.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	GW & MCO 5%G, 40%O, 25%W, 30%M	0.461
90.00	M & WCO 60%O, 30%W, 10%M	1.262
120.00	GM & WCO 5%G, 85%O, 5%W, 5%M	1.683
60.00	OCM 20%O, 80%M	0.842
0.00	150' GIP	0.000

Total Length: 360.00 ft

Total Volume: 4.248 bbl

Num Fluid Samples: 0

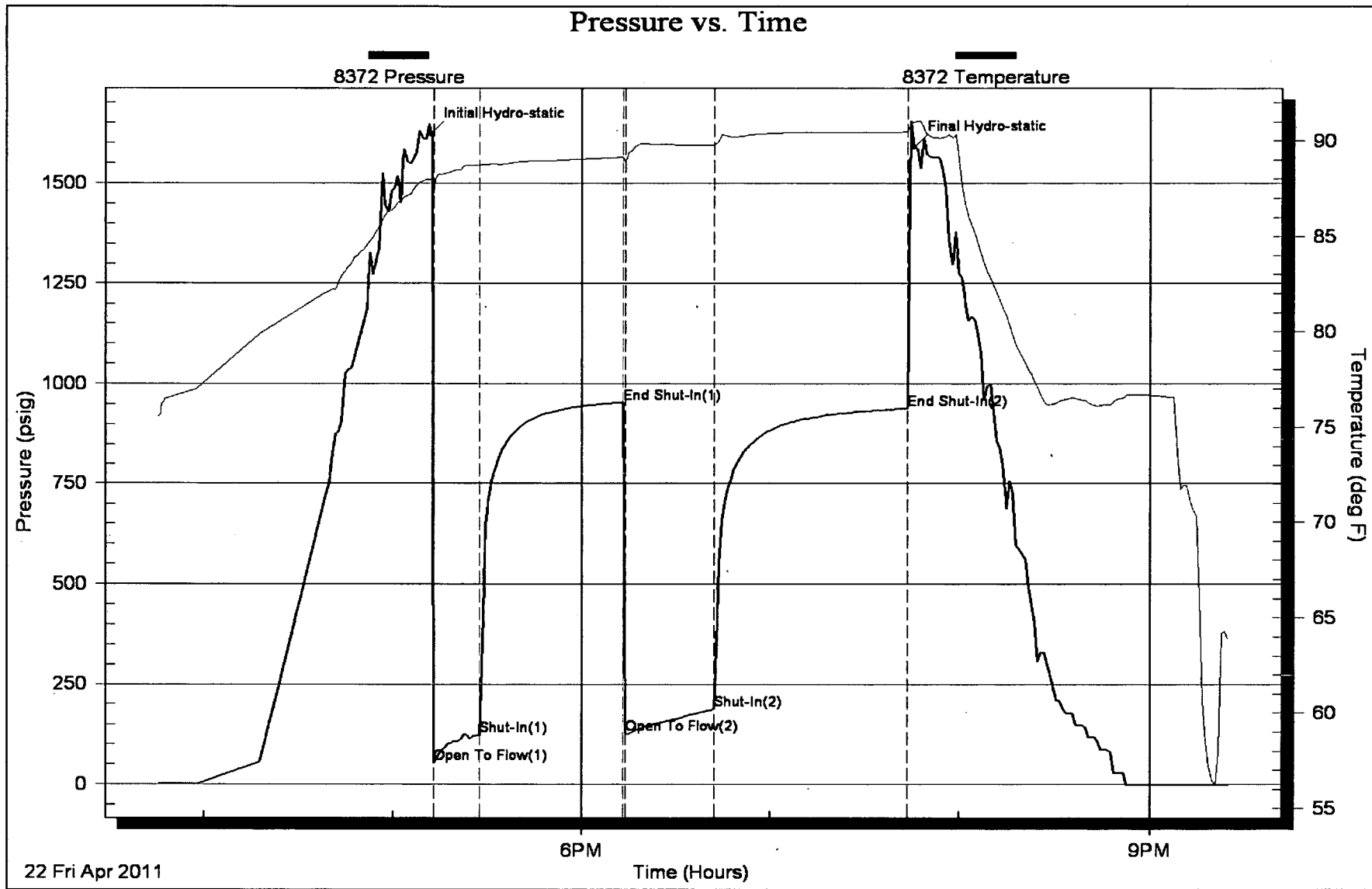
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



22 Fri Apr 2011