



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 # _____

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

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____-_____-_____- Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1056407

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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PO BOX 31 Russell, KS 67665

INVOICE

Invoice Number: 126958

Invoice Date: Apr 19, 2011

Page: 1

Voice: (785) 483-3887

Fax: (785) 483-5566

Bill To:

Bach Oil Production
R. R. #1 Box 28
Phillipsburg, KS 67661

Federal Tax I.D.#: 20-5975804

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

\$ 1458.27

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	
TOTAL	7,492.27

ALLIED CEMENTING CO., LLC. 039680

Federal Tax I.D.# 20-5975804

PERMIT 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>20W</u>	CALLED OUT	ON LOCATION	JOB START <u>6:00 PM</u>	JOB FINISH <u>6:30 PM</u>
LEASE <u>ARCHER</u>	WELL # <u>1</u>	LOCATION <u>Logan</u> ^{KS.} <u>4 N 3/4 W 1/4 S INTD</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 T.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 sx Sx 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>58.20</u>	<u>291.00</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>168</u>	@	<u>2.25</u>	<u>378.00</u>
MILEAGE	<u>111.5</u>	@		<u>1293.60</u>
TOTAL				<u>4626.35</u>

EQUIPMENT

PUMP TRUCK CEMENTER GLENY
 # 398 HELPER WOODY
 BULK TRUCK
 # 410 DRIVER MARK
 BULK TRUCK
 # DRIVER

REMARKS:

RAN 5 JTS 8 5/8 23# CSG.
SET @ 219 Receive Circulation,
& mixed 160sxComm 342, Displace 13 BBL
H₂O & SHOT IN @ 250 #
Cement DID Circulate
TO SURFACE

THANK'S

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>600</u>	@	<u>4.00</u>	<u>560.00</u>
		@		

TOTAL 2665.00

CHARGE TO: Bach Oil Production
 STREET _____
 CITY _____ STATE _____ ZIP _____

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

Bill To:

Bach Oil Production
R. R. #1 Box 28
Phillipsburg, KS 67661

Federal Tax I.D.#: 20-5975804

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

\$ 4259.50

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	
TOTAL	22,247.06

ALLIED CEMENTING CO., LLC. 039685

Federal Tax I.D.# 20-5975804

ADDRESS: 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 RD, 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 1 1/2 # 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

OWNER
 CEMENT
 AMOUNT ORDERED 150 SX 60/40 10% SALT
22 GEL 5# GILSONITE PER SX
400 SX AMD.
 COMMON 90 @ 16.25 1462.50
 POZMIX 60 @ 8.50 510.00
 GEL 3 @ 21.25 63.75
 CHLORIDE @
 ASC @
Gilsonite 750# @ 1.89 667.50
AMD 400 @ 23.55 9420.00
SALT 13 @ 21.95 285.35
 HANDLING 572 @ 2.25 1287.00
 MILEAGE 111.56/mile 2831.40

EQUIPMENT
 PUMP TRUCK CEMENTER Glenn
 # 398 HELPER Woody
 BULK TRUCK
 # 423 DRIVER TODD
 BULK TRUCK
 # 410 DRIVER MARK

TOTAL 16,527.20

REMARKS:

REN 8 ITS New 5 1/2 CSG. (14#)
Set @ 3529, CIRCULATE ON Bottom,
FOR 1 HR, Cement w/ 400sx AMD. Followed by
150sx 60/40 10% SALT, 22 GEL 5# Gilsonite, PER SX,
Clear Line, Release Plug, & Displace 85 3/4 BBL -
LAND LATCH DN. Plug @ 1700# Release @ (HELD)
30 SX @ RAT Hole
15 SX @ Mouse Hole THANK'S

SERVICE

DEPTH OF JOB
 PUMP TRUCK CHARGE 2225.00
 EXTRA FOOTAGE @
 MILEAGE 90 @ 7.00 630.00
 MANIFOLD @
LUN 90 @ 4.00 360.00

TOTAL 3215.00

CHARGE TO: Jason Bach Oil Co.
 STREET

CITY STATE ZIP

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

5 1/2 CSG.

PLUG & FLOAT EQUIPMENT

Float Shoe 245.00
LATCH Down Plug ASSY @ 194.00
12 CENTRALIZERS @ 34.00 408.00
3 BASKETS @ 236.00 708.00

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

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

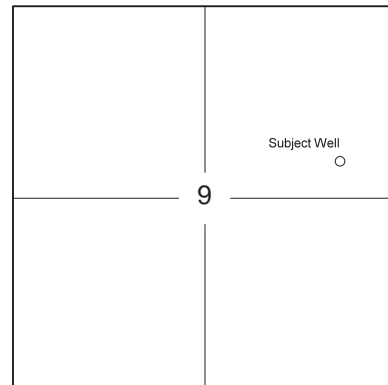
5 1/2" Set @3530'

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

REMARKS AND RECOMMENDATIONS

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

Respectfully submitted,

Robert J. Petersen April 26, 2011

DAILY REPORT

@7:00 A.M.

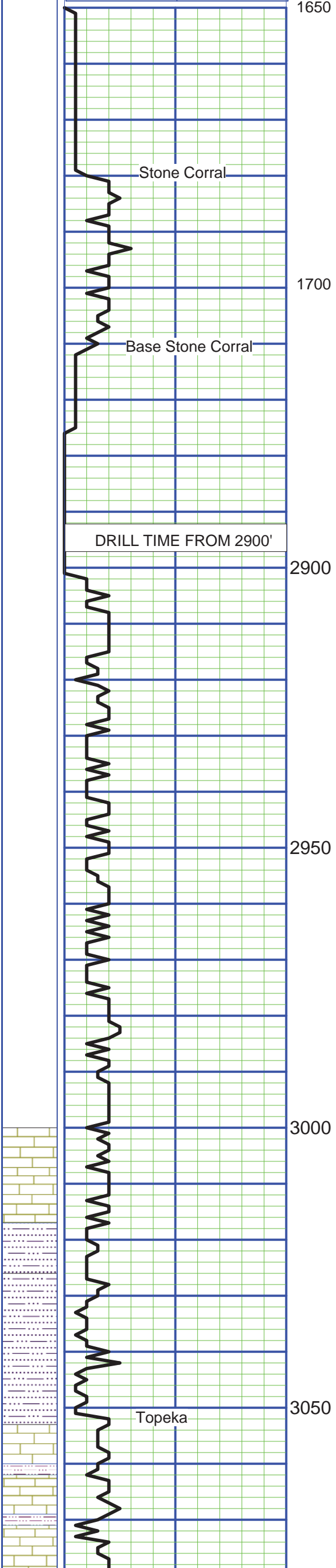
4-19-11 MIRU, SPUD
4-20-11 740' Drilling
4-21-11 2390' Drilling
4-22-11 3240' Drilling
4-23-11 3530' RTD Logging

DRILL TIME MIN./FT

0

5

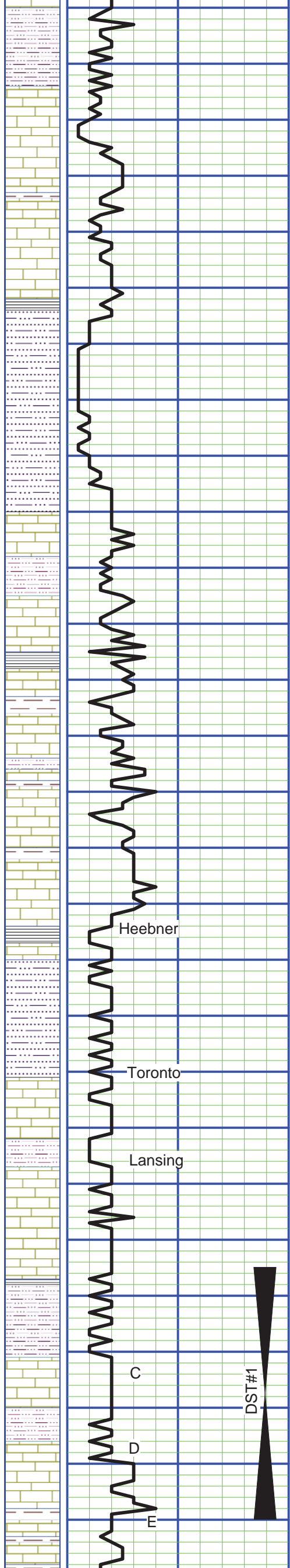
10



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#



3100

3150

3200

3250

3300

3350

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

LS; Cream, fine crystalline, foss (10)

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, fossilifeorus, dolomitic, chalky (40)

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

SH; Black (60)

SH; Red/gray (60)

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)

LS; Cream, fine crystalline, fossiliferous-subgranualr, 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)

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)

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#

Heebner

Toronto

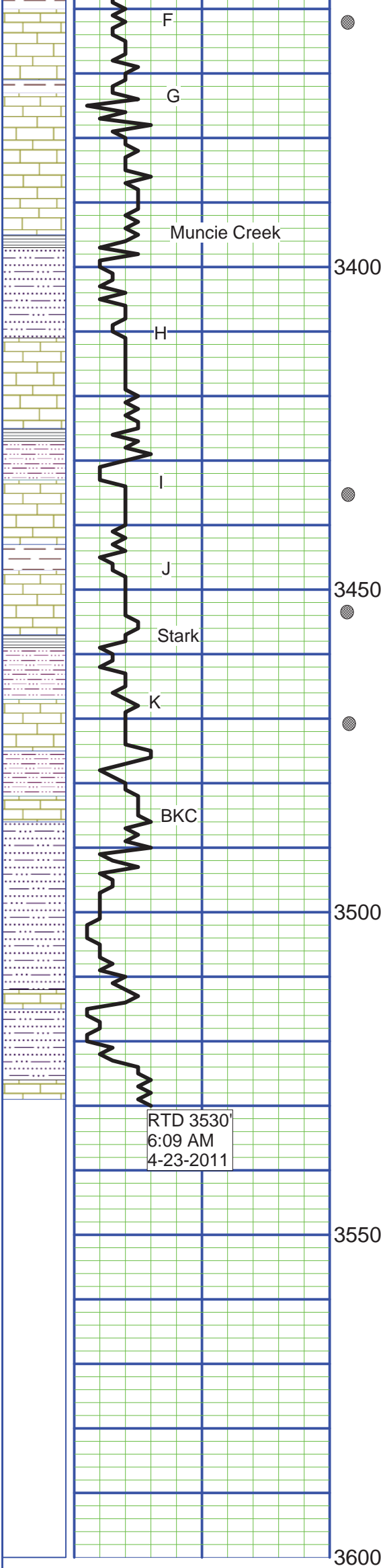
Lansing

C

D

E

DST#1



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)

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)

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

Vis 52
 Wt 9.0
 LCM 3.5#

VIS 64
 WT 9.1
 LCM 4#



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

ATTN: Bob Peterson

Job Ticket: 42551

DST#: 1

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 @ Run Depth: 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

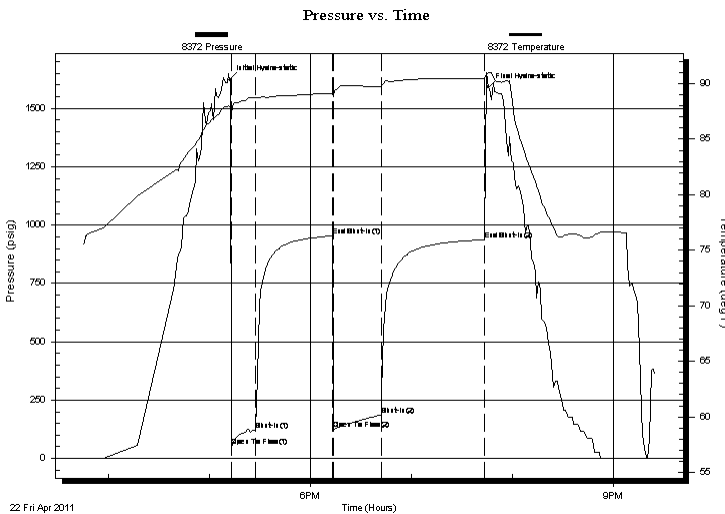
Start Time: 15:45:36 End Time: 21:24:35

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
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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:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
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

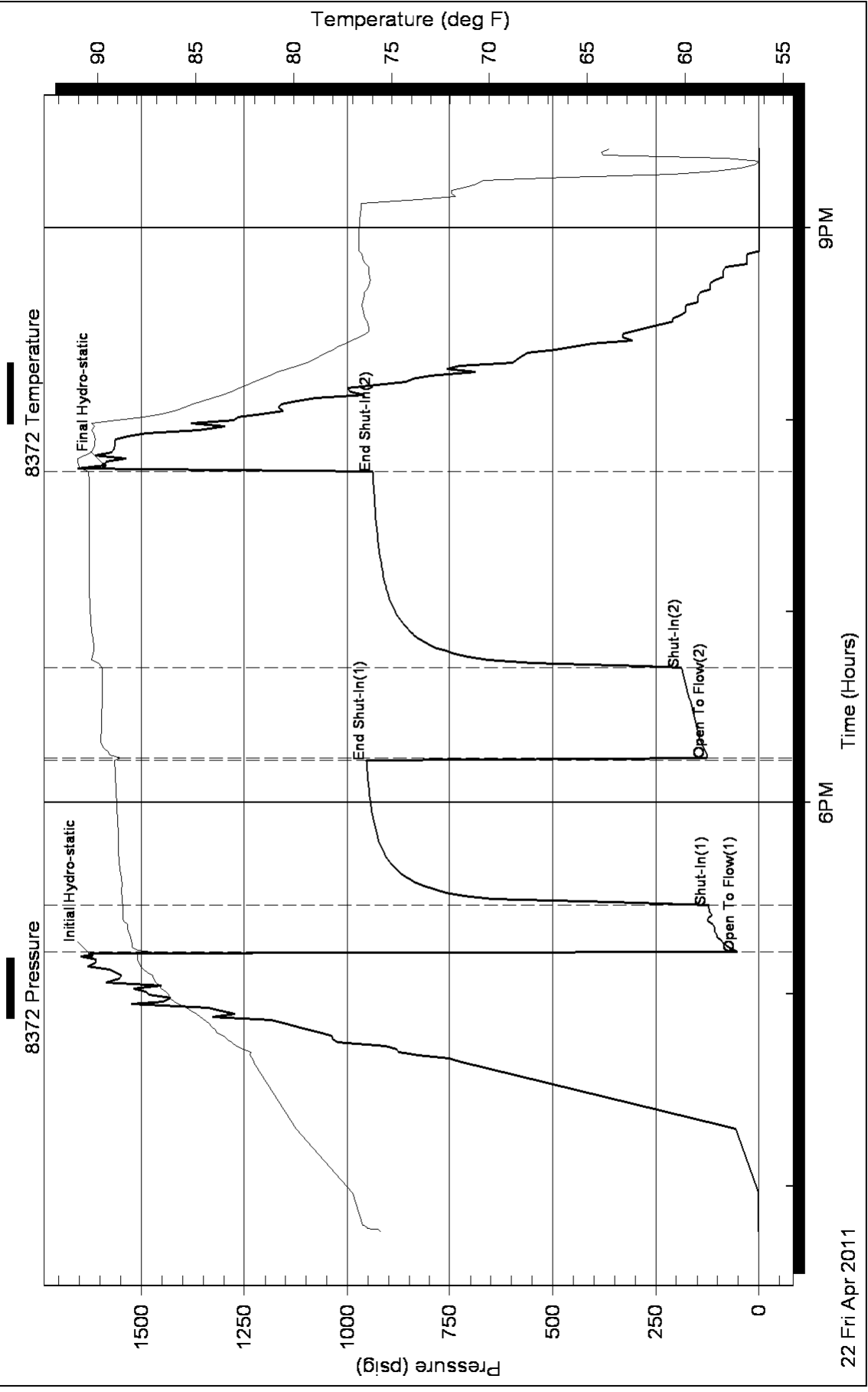
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



22 Fri Apr 2011

6PM

9PM