



KANSAS CORPORATION COMMISSION 1059602
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: _____



1059602

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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PO BOX 31 Russell, KS 67665

INVOICE

Invoice Number: 127358

Invoice Date: May 28, 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	Kats #1	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Russell	May 28, 2011	6/27/11

Quantity	Item	Description	Unit Price	Amount
150.00	MAT	Class A Common	16.25	2,437.50
3.00	MAT	Gel	21.25	63.75
5.00	MAT	Chloride	58.20	291.00
158.00	SER	Handling	2.25	355.50
50.00	SER	Mileage 158 sx @.11 per sk per mi	17.38	869.00
1.00	SER	Surface	1,125.00	1,125.00
100.00	SER	Pump Truck Mileage	7.00	700.00
100.00	SER	Light Vehicle Mileage	4.00	400.00
1.00	CEMENTER	Heath Long		
1.00	OPER ASSIST	Tony Pfannenstiel		

Subtotal	6,241.75
Sales Tax	189.87
Total Invoice Amount	6,431.62
Payment/Credit Applied	
TOTAL	6,431.62

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

\$ 1248.35

ONLY IF PAID ON OR BEFORE
Jun 22, 2011

ALLIED CEMENTING CO., LLC. 035780

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Russell, KS

DATE <u>5-28-11</u>	SEC. <u>2</u>	TWP. <u>2</u>	RANGE <u>19</u>	CALLED OUT	ON LOCATION	JOB START <u>7:30</u>	JOB FINISH <u>8:00</u>
LEASE <u>Kats</u>	WELL# <u>1</u>	LOCATION <u>Philipsburg N to Hunter RD</u>			COUNTY <u>Phillips</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>6W 1/2 N into</u>					

CONTRACTOR Murfin #16
 TYPE OF JOB Surface
 HOLE SIZE 8 5/8 T.D. 218
 CASING SIZE 8 5/8 DEPTH 218.56
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15++
 PERFS.
 DISPLACEMENT 12.96

OWNER
 CEMENT
 AMOUNT ORDERED 150 com 382

COMMON	<u>150</u>	@	<u>16.25</u>	<u>2437.50</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>158</u>	@	<u>2.25</u>	<u>355.50</u>
MILEAGE	<u>11.56/mile</u>			<u>869.00</u>
TOTAL				<u>4016.75</u>

EQUIPMENT

PUMP TRUCK CEMENTER Heath
 # 409 HELPER Todd
 BULK TRUCK
 # 410 DRIVER Tony
 BULK TRUCK
 # DRIVER

REMARKS:

Ran 5 Joints 8 5/8
Dispacked with 12.96 bbl of H2O
Shut in

cement did circulate!!
Thank You

CHARGE TO: Bach Oil Productions
 STREET PO BOX 723
 CITY Alma STATE NE ZIP 68920

SERVICE

DEPTH OF JOB				
PUMP TRUCK CHARGE				<u>1125.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>100</u>	@	<u>7.00</u>	<u>700.00</u>
MANIFOLD		@		
	<u>100</u>	@	<u>4.00</u>	<u>400.00</u>
TOTAL				<u>2225.00</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: 127451

Invoice Date: Jun 2, 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	Katz #1	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-02	Russell	Jun 2, 2011	7/2/11

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
2.00	MAT	Gel	21.25	42.50
400.00	MAT	AMD	23.55	9,420.00
750.00	MAT	Gilsonite	0.89	667.50
13.00	MAT	Salt	23.95	311.35
580.00	SER	Handling	2.25	1,305.00
50.00	SER	Mileage 580 sx @.11 per sk per mi	63.80	3,190.00
1.00	SER	Production String	2,225.00	2,225.00
100.00	SER	Pump Truck Mileage	7.00	700.00
100.00	SER	Light Vehicle Mileage	4.00	400.00
3.00	EQP	5.5 Basket	236.00	708.00
10.00	EQP	5.5 Centralizer	34.00	340.00
1.00	EQP	5.5 Float Shoe	245.00	245.00
1.00	EQP	5.5 Latch Down	194.00	194.00
1.00	CEMENTER	Shane Poche		
1.00	CEMENTER	Heath Long		
1.00	EQUIP OPER	Ron Bennett		
1.00	OPER ASSIST	Tony Pfannenstiel		
1.00	OPER ASSIST	Mark Radke		

Subtotal	21,720.85
Sales Tax	945.26
Total Invoice Amount	22,666.11
Payment/Credit Applied	
TOTAL	22,666.11

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

\$ **4344.13**

ONLY IF PAID ON OR BEFORE
Jun 27, 2011

ALLIED CEMENTING CO., LLC. 035828

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Russell

DATE <u>6/2/11</u>	SEC. <u>2</u>	TWP. <u>2</u>	RANGE <u>19</u>	CALLED OUT	ON LOCATION	JOB START <u>6:00p</u>	JOB FINISH <u>7:00p</u>	
LEASE <u>Kats</u>	WELL # <u>1</u>	LOCATION <u>Phillipsburg 9 N to</u>			COUNTY <u>Phillips</u>	STATE <u>Ks</u>		
OLD OR NEW (Circle one)			<u>Heate Rd</u>					

CONTRACTOR Murdin Drilling Rig #16
 TYPE OF JOB Production String
 HOLE SIZE 7 7/8 T.D. 3683'
 CASING SIZE 5 7/8 DEPTH 3685'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 13.6
 CEMENT LEFT IN CSG. 13.6
 PERFS.
 DISPLACEMENT 89,596bl

OWNER
 CEMENT
 AMOUNT ORDERED 400 AMD.
150 6 3/4 10% Salt 5% Carbonate/sk
22.621

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>2</u>	@	<u>21.25</u>	<u>42.50</u>
CHLORIDE		@		
ASC		@		
		@		
<u>AMD</u>	<u>400</u>	@	<u>23.55</u>	<u>9420.00</u>
		@		
<u>Gilsonite</u>	<u>750#</u>	@	<u>.89</u>	<u>667.50</u>
<u>Salt</u>	<u>13</u>	@	<u>23.95</u>	<u>311.35</u>
		@		
		@		
		@		
HANDLING	<u>580</u>	@	<u>2.25</u>	<u>1305.00</u>
MILEAGE	<u>11.1/100</u>			<u>3190.00</u>
				TOTAL <u>16,908.85</u>

EQUIPMENT

PUMP TRUCK CEMENTER Shane, Heath
 # 409 HELPER Ron
 BULK TRUCK
 # 477 DRIVER Tony
 BULK TRUCK
 # 410 DRIVER Mark

REMARKS:

Insert @ 3671.40 Rat Hole 3000
Main Hole 1500. Mixed 355 sks
down 5 1/2 & tailed in with
150 sks. Shut down washed
pump + liner. Displaced 89,596bl
Landed Plug @ 1700 ps.

Float Held!
Cement Circulated!

CHARGE TO: Each Production
 STREET
 CITY STATE ZIP

SERVICE

DEPTH OF JOB				
PUMP TRUCK CHARGE				<u>2225.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>100</u>	@	<u>7.00</u>	<u>700.00</u>
MANIFOLD		@		
<u>CUM</u>	<u>100</u>	@	<u>4.00</u>	<u>400.00</u>
				TOTAL <u>3325.00</u>

PLUG & FLOAT EQUIPMENT

		@		
<u>3 Baskets</u>		@	<u>236.00</u>	<u>708.00</u>
<u>10 - Centralizers</u>		@	<u>34.00</u>	<u>340.00</u>
<u>Float, Plug</u>		@		<u>245.00</u>

Thanks!

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: KATS#1
 S/2 NW SW NE
 LOC.: 1920' FNL & 2310' FWL
 SEC. 2-2-19W
 PHILLIPS COUNTY, KANSAS
 API: 15-147-20646-00-00

ELEVATION

KB: 2245'
 GL: 2240'
 LOG MEASURED
 FROM: KB

SURFACE CASING

8 5/8" surface csg.
 Set @218' KB.
 Cem. w/150sx Common,
 3% CC, 2% Gel.

PRODUCTION CASING

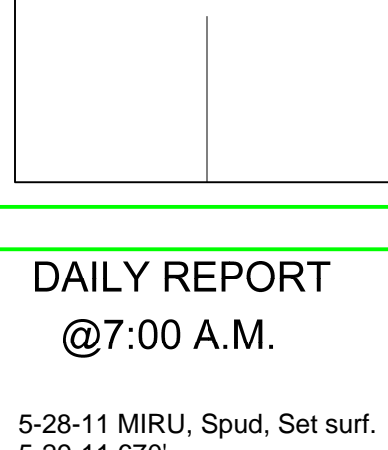
5 1/2" Set @3681'
 w/505 sx

WELL LOG SURVEYS

RAG

ELECTRIC LOG TOPS

FORMATION	DEPTH	DATUM	POSITION
Stone Corral	1814	+431	+6
Base Stone Corral	1836	+409	+4
Topeka	3163	-918	-1
Heebner	3377	-1132	-2
Toronto	3407	-1162	-3
Lansing	3424	-1179	-2
Base Kansas City	3644	-1399	-3



REFERENCE WELL:

Bach Oil Production
 Barbara#1
 35-2-19W

DAILY REPORT

@7:00 A.M.

5-28-11 MIRU, Spud, Set surf.
 5-29-11 670'
 5-30-11 2165'
 5-31-11 2985'
 6-1-11 3510'
 6-2-11 3684' logging

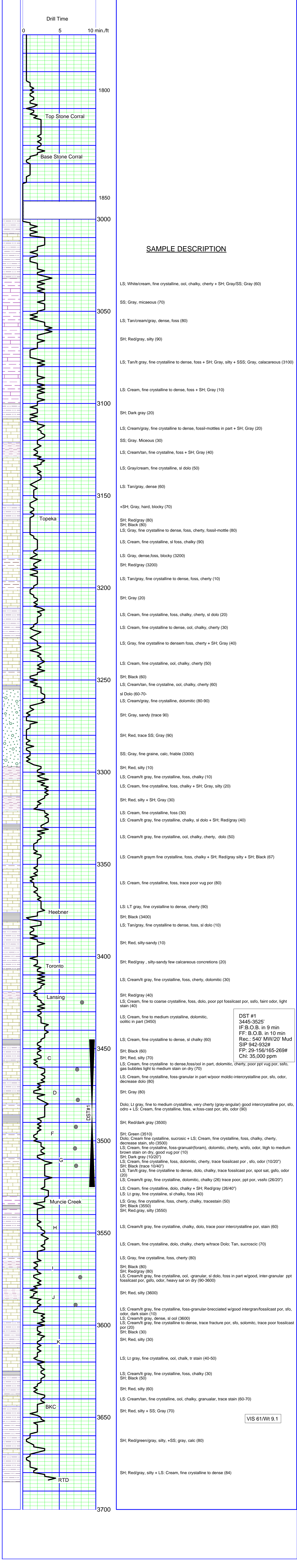
REMARKS AND RECOMMENDATIONS

Due to the proximity of this well to existing production and faulting to the east production casing was run by the operator to further test the shows in this well for commercial production.

Respectfully submitted,

Robert J. Petersen

Robert Petersen



SAMPLE DESCRIPTION

LS: White/cream, fine crystalline, ool, chalky, cherty + SH; Gray/SS; Gray (60)

SS: Gray, micaceous (70)

LS: Tan/cream/gray, dense, foss (80)

SH: Red/gray, silty (90)

LS: Tan/lt gray, fine crystalline to dense, foss + SH; Gray, silty + SSS; Gray, calcareous (3100)

LS: Cream, fine crystalline to dense, foss + SH; Gray (10)

SH: Dark gray (20)

LS: Cream/gray, fine crystalline to dense, fossil-mottles in part + SH; Gray (20)

SS: Gray, Miceous (30)

LS: Cream/tan, fine crystalline, foss + SH; Gray (40)

LS: Gray/cream, fine crystalline, sl dolo (50)

LS: Tan/gray, dense (60)

+SH: Gray, hard, blocky (70)

SH: Red/gray (80)
 SH: Black (80)
 LS: Gray, fine crystalline to dense, foss, cherty, fossil-mottle (80)

LS: Cream, fine crystalline, sl foss, chalky (90)

LS: Gray, dense, foss, blocky (3200)
 SH: Red/gray (3200)

LS: Tan/gray, fine crystalline to dense, foss, cherty (10)

SH: Gray (20)

LS: Cream, fine crystalline, foss, chalky, cherty, sl dolo (20)

LS: Cream, fine crystalline to dense, ool, chalky, cherty (30)

LS: Gray, fine crystalline to dense, foss, cherty + SH; Gray (40)

LS: Cream, fine crystalline, ool, chalky, cherty (50)

SH: Black (60)
 LS: Cream/tan, fine crystalline, ool, chalky, cherty (60)

sl Dolo (60-70-
 LS: Cream/gray, fine crystalline, dolomitic (80-90)

SH: Gray, sandy (trace 90)

SH: Red, trace SS; Gray (90)

SS: Gray, fine graine, calc, friable (3300)

SH: Red, silty (10)
 LS: Cream/lt gray, fine crystalline, foss, chalky (10)
 LS: Cream, fine crystalline, foss, chalky + SH; Gray, silty (20)

SH: Red, silty + SH; Gray (30)

LS: Cream, fine crystalline, foss (30)
 LS: Cream/lt gray, fine crystalline, chalky, sl dolo + SH; Red/gray (40)

LS: Cream/lt gray, fine crystalline, ool, chalky, cherty, dolo (50)

LS: Cream/lt gray, fine crystalline, foss, chalky + SH; Red/gray silty + SH; Black (67)

LS: Cream, fine crystalline, foss, trace poor vug por (80)

LS: LT gray, fine crystalline to dense, cherty (90)
 SH: Black (3400)
 LS: Tan/gray, fine crystalline to dense, foss, sl dolo (10)

SH: Red, silty-sandy (10)

SH: Red/gray, silty-sandy few calcareous concretions (20)

LS: Cream/lt gray, fine crystalline, foss, cherty, dolomitic (30)

SH: Red/gray (40)
 LS: Cream, fine to coarse crystalline, foss, dolo, poor ppt fossilcast por, ssfo, faint odor, light stain (40)

LS: Cream, fine to medium crystalline, dolomitic, oolitic in part (3450)

LS: Cream, fine crystalline to dense, sl chalky (60)

SH: Black (60)
 SH: Red, silty (70)
 LS: Cream, fine crystalline to dense, foss/ool in part, dolomitic, cherty, poor ppt vug por, ssfo, brown stain on dry, good vug por (10)
 SH: Dark gray (10/20)
 LS: Cream, fine crystalline, foss, dolomitic, cherty, trace fossilcast por, sfo, odor (10/20)
 SH: Black (trace 10/40)
 LS: Tan/lt gray, fine crystalline to dense, dolo, chalky, trace fossilcast por, spot sat, gsfo, odor (20)
 LS: Cream/lt gray, fine crystalline, dolomitic, chalky (26) trace poor, ppt por, vssfo (26/20')

LS: Cream, fine crystalline, dolo, chalky + SH; Red/gray (26/40)
 LS: Lt gray, fine crystalline, sl chalky, foss (40)

LS: Gray, fine crystalline, foss, cherty, chalky, trace stain (50)
 SH: Black (3550)
 SH: Red, silty (3550)

LS: Cream/lt gray, fine crystalline, chalky, dolo, trace poor intercrystalline por, stain (60)

LS: Cream, fine crystalline, dolo, chalky, cherty w/trace Dolo; Tan, sucrosic (70)

LS: Gray, fine crystalline, foss, cherty (80)

SH: Black (80)
 SH: Red/gray (80)
 LS: Cream/lt gray, fine crystalline, ool, -granular, sl dolo, foss in part w/good, inter-granular ppt fossilcast por, gsfo, odor, heavy sat on dry (90-3600)

SH: Red, silty (3600)

LS: Cream/lt gray, fine crystalline, foss-granular-brecciated w/good intergran/fossilcast por, sfo, odor, dark stain (10)
 LS: Cream/lt gray, dense, sl ool (3600)
 LS: Cream/lt gray, fine crystalline to dense, trace fracture por, sfo, solomitic, trace poor fossilcast por (20)
 SH: Black (30)
 SH: Red, silty (30)

LS: Lt gray, fine crystalline, ool, chalk, tr stain (40-50)

LS: Cream/lt gray, fine crystalline, foss, chalky (30)
 SH: Black (50)

SH: Red, silty (60)

LS: Cream/tan, fine crystalline, ool, chalky, granular, trace stain (60-70)

SH: Red, silty + SS; Gray (70)

SH: Red/green/gray, silty, +SS; gray, calc (80)

SH: Red/gray, silty + LS: Cream, fine crystalline to dense (84)

DST #1
 3445-3525'
 IF: B.O.B. in 9 min
 FF: B.O.B. in 10 min
 Rec.: 540' MW/20' Mud
 SIP 942-932#
 FP: 29-156/165-269#
 Chl: 35,000 ppm

VIS 61/Wt 9.1



DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production**

P.O. Box 723 Alma, NE 68920

ATTN: Bob Peterson

2/2/19w/Phillips/KS

Kats #1

Start Date: 2011.06.01 @ 10:35:00

End Date: 2011.06.01 @ 17:23:15

Job Ticket #: 041117 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
P.O. Box 723 Alma, NE 68920
ATTN: Bob Peterson

Kats #1
2/2/19w/Phillips/KS
Job Ticket: 041117 **DST#: 1**
Test Start: 2011.06.01 @ 10:35:00

GENERAL INFORMATION:

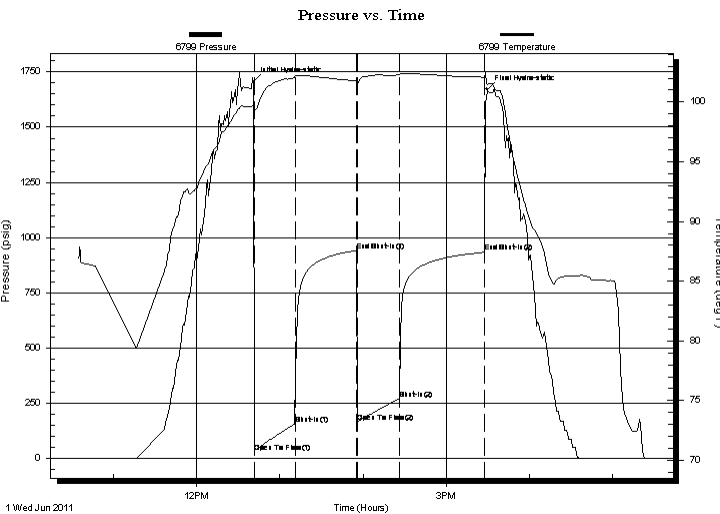
Formation: **LKC "C,D,E,F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:41:30
Time Test Ended: 17:23:15
Interval: **3445.00 ft (KB) To 3525.00 ft (KB) (TVD)**
Total Depth: 3525.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Kevin Mack
Unit No: 43
Reference Elevations: 2235.00 ft (KB)
2230.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press @ Run Depth: 269.61 psig @ 3446.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.06.01 End Date: 2011.06.01 Last Calib.: 2011.06.01
Start Time: 10:35:05 End Time: 17:23:14 Time On Btm: 2011.06.01 @ 12:41:15
Time Off Btm: 2011.06.01 @ 15:29:30

TEST COMMENT: IF: B.o.B. in 9 minutes.
IS: Weak Surface return (2 or 3 bubbles) started at 5 minutes then died
FF: B.o.B. in 10 minutes
FS: No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1704.60	99.68	Initial Hydro-static
1	29.05	99.02	Open To Flow (1)
30	156.60	102.06	Shut-In(1)
74	942.10	101.79	End Shut-In(1)
75	165.00	101.47	Open To Flow (2)
105	269.61	102.26	Shut-In(2)
167	934.56	102.06	End Shut-In(2)
169	1670.97	101.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud (Heavy) 100M	0.10
414.00	MW 20M 80W	5.73
126.00	MW 40M 60W	1.77
	Show of free oil at first wet connection	

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bach Oil Production
P.O. Box 723 Alma, NE 68920
ATTN: Bob Peterson

Kats #1
2/2/19w/Phillips/KS
Job Ticket: 041117 **DST#: 1**
Test Start: 2011.06.01 @ 10:35:00

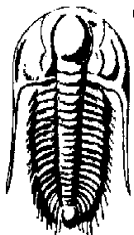
Tool Information

Drill Pipe:	Length: 3394.00 ft	Diameter: 3.80 inches	Volume: 47.61 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: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 47.75 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3445.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	109.00 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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Change Over Sub	1.00			3417.00	
Shut In Tool	5.00			3422.00	
Hydraulic tool	5.00			3427.00	
Jars	5.00			3432.00	
Safety Joint	3.00			3435.00	
Packer	5.00			3440.00	29.00 Bottom Of Top Packer
Packer	5.00			3445.00	
Stubb	1.00			3446.00	
Recorder	0.00	8648	Inside	3446.00	
Recorder	0.00	6799	Inside	3446.00	
Perforations	6.00			3452.00	
Change Over Sub	1.00			3453.00	
Drill Pipe	63.00			3516.00	
Change Over Sub	1.00			3517.00	
Perforations	3.00			3520.00	
Bullnose	5.00			3525.00	80.00 Bottom Packers & Anchor
Total Tool Length:	109.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bach Oil Production

Kats #1

P.O. Box 723 Alma, NE 68920

2/2/19w/Phillips/KS

Job Ticket: 041117

DST#: 1

ATTN: Bob Peterson

Test Start: 2011.06.01 @ 10:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

35000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud (Heavy) 100M	0.098
414.00	MW 20M 80W	5.734
126.00	MW 40M 60W	1.767
	Show of free oil at first wet connection	

Total Length: 560.00 ft

Total Volume: 7.599 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

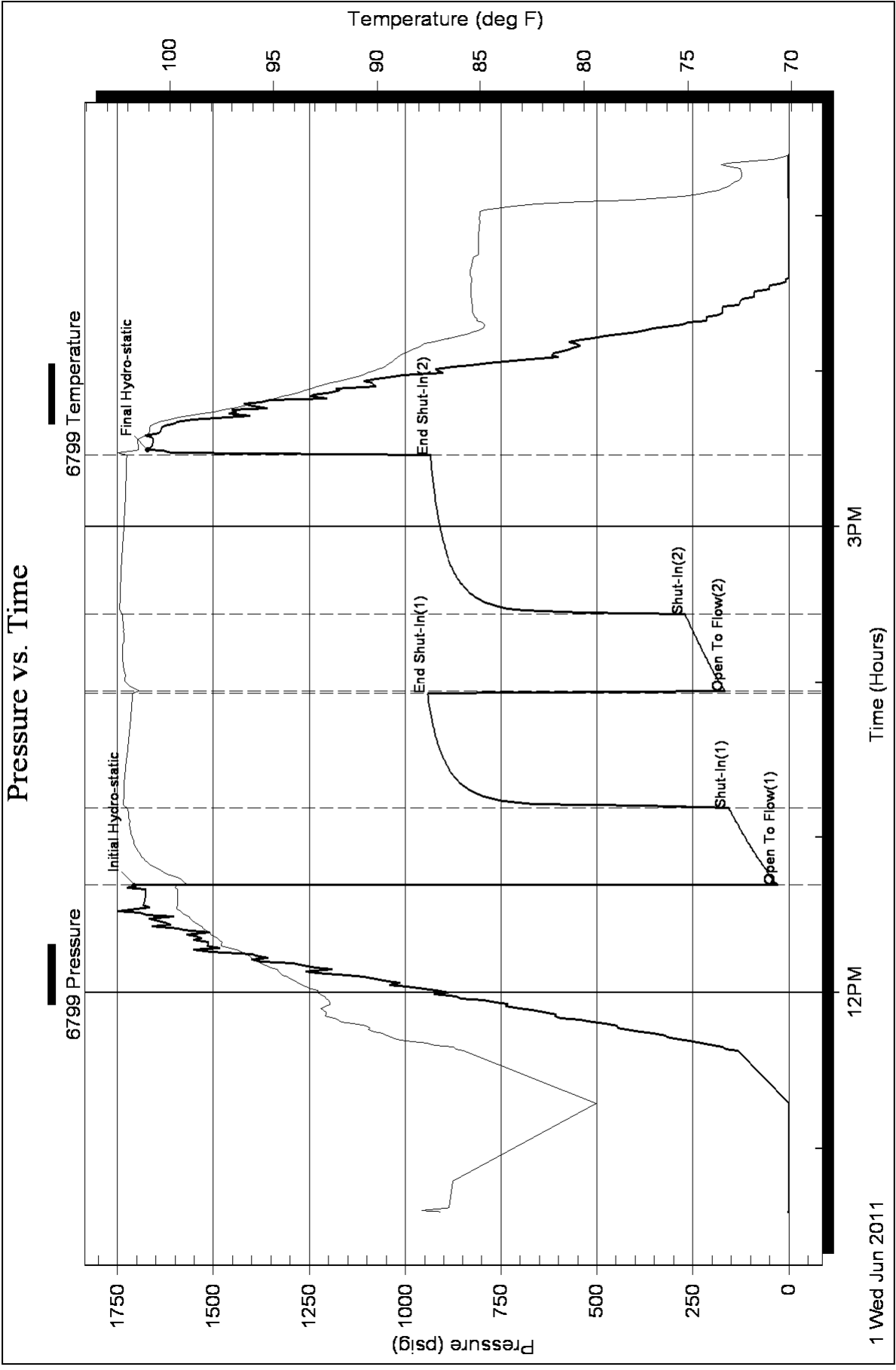
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .19 @ 76 deg=35000 ppm

Pressure vs. Time



1 Wed Jun 2011

3PM

12PM