



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1199600
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: _____

1199600

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 <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 List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Bach, Jason dba Bach Oil Production
Well Name	Billy 3
Doc ID	1199600

Tops

Name	Top	Datum
Stone Corral	1842	+427
Base Stone Corral	1853	+416
Topeka	3188	-919
Heebner	3397	-1128
Toronto	3426	-1157
Lansing	3445	-1176
Muncie Creek	3555	-1286
Stark	3621	-1352
RTD	3625	-1356



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 140550
Invoice Date: Dec 26, 2013
Page: 1

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

Bill To:
Bach Oil Production 82 W. 500 Ln. Phillipsburg, KS 67661

Customer ID	Field Ticket #	Payment Terms	
Bach	54954	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Russell	Dec 26, 2013	1/25/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Billy #3		
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 Charge	2.48	468.70
431.48	CEMENT SERVICE	Ton Mileage Charge	2.60	1,121.85
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	Nathan Donner		
1.00	OPERATOR ASSISTANT	Dwayne Bender		

Subtotal	7,301.29
Sales Tax	238.97
Total Invoice Amount	7,540.26
Payment/Credit Applied	
TOTAL	7,540.26

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
Jan 20, 2014

ALLIED OIL & GAS SERVICES, LLC 054954

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Russell KS

DATE <u>12-26-13</u>	SEC. <u>3</u>	TWP. <u>2</u>	RANGE <u>19</u>	CALLED OUT	ON LOCATION	JOB START <u>9:00pm</u>	JOB FINISH <u>9:30pm</u>
LEASE <u>Billy</u>	WELL # <u>3</u>	LOCATION <u>Phillipsburg 8 N 7 W into</u>			COUNTY <u>Phillips</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Murfin 24

TYPE OF JOB surface

HOLE SIZE 12 1/4 T.D. 222

CASING SIZE 8 5/8 23rd DEPTH 222

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 15

CEMENT LEFT IN CSG. 15

PERFS.

DISPLACEMENT 13661

EQUIPMENT

PUMP TRUCK CEMENTER Robert Y

409 HELPER Nathana D

BULK TRUCK

473 DRIVER Dwayne B

BULK TRUCK

DRIVER

REMARKS:
run 5jts of 8 5/8 23rd csg receive circulation
mix 175 com 32cc 29gal displac 13661
of water shut in

cement did circulate to surface

CHARGE TO: Bach Oil

STREET

CITY STATE ZIP

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

PRINTED NAME Anthony Martin

SIGNATURE Anthony Martin

OWNER

CEMENT

AMOUNT ORDERED 175 com 32cc 29gal

COMMON 175 @ 17.90 3132.50

POZMIX @

GEL 3.29 @ 23.40 76.99

CHLORIDE 6 @ 64.00 384.00

ASC @

HANDLING 188.99 5.13 @ 2.48 468.71

MILEAGE 431.48 4/m 2.60 1121.84

TOTAL 5184.03

SERVICE

DEPTH OF JOB 222

PUMP TRUCK CHARGE 1512.25

EXTRA FOOTAGE @

MILEAGE 50 HUMI @ 7.70 385.00

MANIFOLD @

50 HUMI @ 4.40 220.00

TOTAL 2117.25

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

SALES TAX (if Any)

TOTAL CHARGES 7301.28

DISCOUNT 1825.32 IF PAID IN 30 DAYS

net 5475.96



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 140688
Invoice Date: Jan 1, 2014
Page: 1

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

Bill To:
Bach Oil Production 82 W. 500 Ln. Phillipsburg, KS 67661

Customer ID	Field Ticket #	Payment Terms	
Bach	55001	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-03	Russell	Jan 1, 2014	1/31/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Billy #32		
123.00	CEMENT MATERIALS	Class A Common	17.90	2,201.70
82.00	CEMENT MATERIALS	Pozmix	9.35	766.70
8.20	CEMENT MATERIALS	Gel	23.40	191.88
225.33	CEMENT SERVICE	Cubic Feet Charge	2.48	558.82
463.75	CEMENT SERVICE	Ton Mileage Charge	2.60	1,205.75
1.00	CEMENT SERVICE	Plug to Abandon	2,249.84	2,249.84
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	8-5/8 Wooden Plug	107.64	107.64
1.00	CEMENT SUPERVISOR	Tony Pfannenstiel		
1.00	OPERATOR ASSISTANT	Danny Sinner		
1.00	OPERATOR ASSISTANT	Jesse Cozart		

Subtotal	7,887.33
Sales Tax	524.51
Total Invoice Amount	8,411.84
Payment/Credit Applied	
TOTAL	8,411.84

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

\$ 1,944.25

ONLY IF PAID ON OR BEFORE
Jan 26, 2014

ALLIED OIL & GAS SERVICES, LLC 055001

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Russell Ks

DATE 1-1-14 SEC 3 TWP 2 RANGE 19 CALLED OUT _____ ON LOCATION _____ JOB START 2:30 PM JOB FINISH 3:30 PM
 LEASE Billy WELL # 3 LOCATION Phillipsburg Ks COUNTY Phillips STATE Ks
 OLD OR NEW (Circle one) n to Hunter rd 1 1/2 West of 500 rd

CONTRACTOR MURKIN #24 OWNER n inks.
 TYPE OF JOB PTA
 HOLE SIZE 4 1/2 T.D. _____ CEMENT AMOUNT ORDERED 2.05 SK
 CASING SIZE _____ DEPTH _____ 6010 + 41.94
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 DEPTH 1790'
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____ COMMON 1.23 SK @ 17.9 \$2,201.70
 MEAS. LINE _____ SHOE JOINT _____ POZMIX 8.2 SK @ 9.35 \$766.70
 CEMENT LEFT IN CSG. _____ GEL 8.2 SK @ 23.4 \$191.88
 PERFS. _____ CHLORIDE _____
 DISPLACEMENT See "Remarks" ASC _____

EQUIPMENT
 PUMP TRUCK CEMENTER Danny P.
 # 417 HELPER Danny S
 BULK TRUCK
 # 481 DRIVER Jesse C.
 BULK TRUCK
 # _____ DRIVER _____
 HANDLING 225.33 @ 2.48 \$ 558.83
 MILEAGE 463.75 @ 2.60 \$ 1,205.75
 TOTAL \$ 1,764.58

REMARKS:

P1 = 1790' @ 25sk - Pumped 4.10 ^{5/8} _{7/8}
 Displaced - 2.56 ^{3/4} _{1 1/8} / min.
 P2 = 1265' @ 100SK - Pumped 16.42 ^{5/8} _{7/8}
 Displaced - 11.42 ^{3/4} _{1 1/8}
 P3 = 275' @ 40SK - Pumped 6.57 ^{5/8} _{7/8}
 Displaced - 1.28 ^{5/8} _{7/8}
 P4 = 40' @ 10SK - Pumped 1.64 ^{5/8} _{7/8}
 1 X 8 5/8 wooden Plug -
 cement to surface

SERVICE

DEPTH OF JOB 1790'
 PUMP TRUCK CHARGE \$ 2,249.84
 EXTRA FOOTAGE @ _____
 MILEAGE Keary 50m @ 7.7 \$385.0
Light 50m @ 4.4 \$220
 MANIFOLD _____
 TOTAL \$ 2,854.84

CHARGE TO: BACH OIL
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

P5 = RATHde = 30SK
1 X 8 5/8 wooden Plug @ _____ \$107.64

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 \$ 7,887.34
 DISCOUNT \$ 1,944.25 IF PAID IN 30 DAYS

PRINTED NAME Anthony Martin
 SIGNATURE Anthony Martin

net 5943.09



DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production**

P.O. Box 723
Alma, NE 68920

ATTN: Bob Peterson

Billy #3

3-2S-19W Phillips, KS

Start Date: 2013.12.31 @ 04:42:00

End Date: 2013.12.31 @ 11:01:30

Job Ticket #: 53565 DST #: 1

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

Printed: 2014.01.08 @ 13:17:07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bach Oil Production

3-2S-19W Phillips, KS

P.O. Box 723
Alma, NE 68920

Billy #3

Job Ticket: 53565

DST#: 1

ATTN: Bob Peterson

Test Start: 2013.12.31 @ 04:42:00

GENERAL INFORMATION:

Formation: **LKC "C-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:27:10

Time Test Ended: 11:01:30

Test Type: Conventional Straddle (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 3458.00 ft (KB) To 3538.00 ft (KB) (TVD)

Reference Elevations: 2269.00 ft (KB)

Total Depth: 3653.00 ft (KB) (TVD)

2264.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8874

Inside

Press@RunDepth: 42.70 psig @ 3459.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.31

End Date:

2013.12.31

Last Calib.:

2013.12.31

Start Time: 04:43:00

End Time:

11:01:30

Time On Btm:

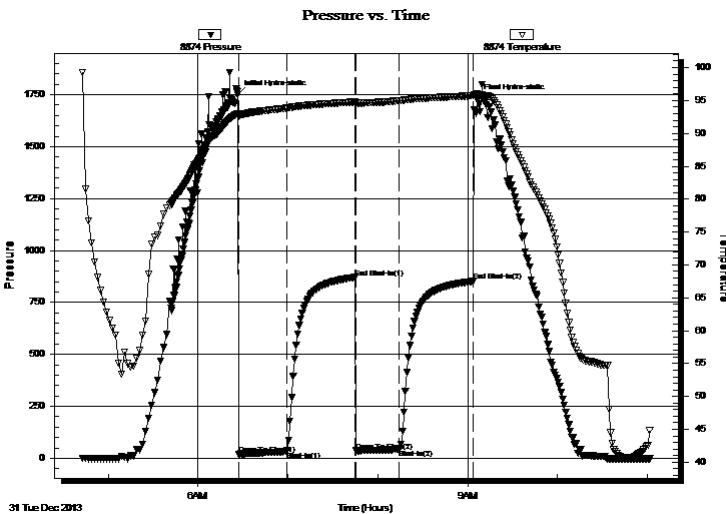
2013.12.31 @ 06:26:50

Time Off Btm:

2013.12.31 @ 09:06:00

TEST COMMENT: 30 - IF- 3/4" Blow built to 2 3/4"
45 - IS- No Return
30 - FF- Surface Blow started at 10 min. Built to 1"
45 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1750.08	93.05	Initial Hydro-static
1	19.81	92.56	Open To Flow (1)
33	32.14	93.83	Shut-In(1)
78	869.79	94.77	End Shut-In(1)
79	35.73	94.58	Open To Flow (2)
108	42.70	94.98	Shut-In(2)
157	851.70	95.70	End Shut-In(2)
160	1730.76	95.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud 100M	0.30
0.00	Show of oil spots in tool	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bach Oil Production

3-2S-19W Phillips, KS

P.O. Box 723
Alma, NE 68920

Billy #3

Job Ticket: 53565

DST#: 1

ATTN: Bob Peterson

Test Start: 2013.12.31 @ 04:42:00

GENERAL INFORMATION:

Formation: **LKC "C-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:27:10

Time Test Ended: 11:01:30

Test Type: Conventional Straddle (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 3458.00 ft (KB) To 3538.00 ft (KB) (TVD)

Reference Elevations: 2269.00 ft (KB)

Total Depth: 3653.00 ft (KB) (TVD)

2264.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8520 Below (Straddle)

Press@RunDepth: psig @ 3554.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.31

End Date:

2013.12.31

Last Calib.:

2013.12.31

Start Time: 04:43:00

End Time:

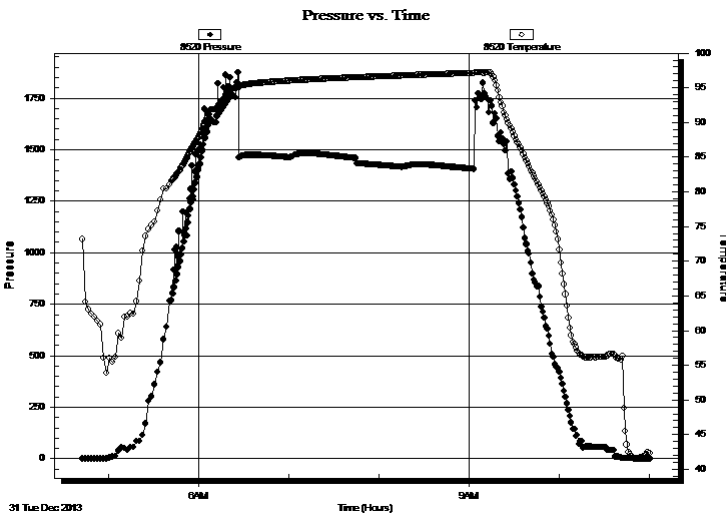
11:01:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF- 3/4" Blow built to 2 3/4"
45 - IS- No Return
30 - FF- Surface Blow started at 10 min. Built to 1"
45 - FS- No Return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud 100M	0.30
0.00	Show of oil spots in tool	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bach Oil Production

3-2S-19W Phillips, KS

P.O. Box 723
Alma, NE 68920

Billy #3

Job Ticket: 53565

DST#: 1

ATTN: Bob Peterson

Test Start: 2013.12.31 @ 04:42:00

Tool Information

Drill Pipe:	Length: 3316.00 ft	Diameter: 3.80 inches	Volume: 46.51 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 47.10 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3458.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	3654.00 ft			
Interval between Packers:	196.00 ft			
Tool Length:	224.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Change Over Sub	1.00			3431.00	
Shut In Tool	5.00			3436.00	
Hydraulic tool	5.00			3441.00	
Jars	5.00			3446.00	
Safety Joint	3.00			3449.00	
Packer	5.00			3454.00	28.00 Bottom Of Top Packer
Packer	4.00			3458.00	
Stubb	1.00			3459.00	
Recorder	0.00	8653	Outside	3459.00	
Recorder	0.00	8874	Inside	3459.00	
Perforations	5.00			3464.00	
Change Over Sub	1.00			3465.00	
Drill Pipe	63.00			3528.00	
Change Over Sub	1.00			3529.00	
Perforations	5.00			3534.00	
Blank Off Sub	1.00			3535.00	
Packer - Shale	4.00			3539.00	
Stubb	1.00			3540.00	
Perforations	13.00			3553.00	
Change Over Sub	1.00			3554.00	
Recorder	0.00	8520	Below	3554.00	
Drill Pipe	94.00			3648.00	
Change Over Sub	1.00			3649.00	
Bullnose	5.00			3654.00	196.00 Bottom Packers & Anchor
Total Tool Length:	224.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bach Oil Production

3-2S-19W Phillips, KS

P.O. Box 723
Alma, NE 68920

Billy #3

Job Ticket: 53565

DST#: 1

ATTN: Bob Peterson

Test Start: 2013.12.31 @ 04:42:00

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Mud 100M	0.295
0.00	Show of oil spots in tool	0.000

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

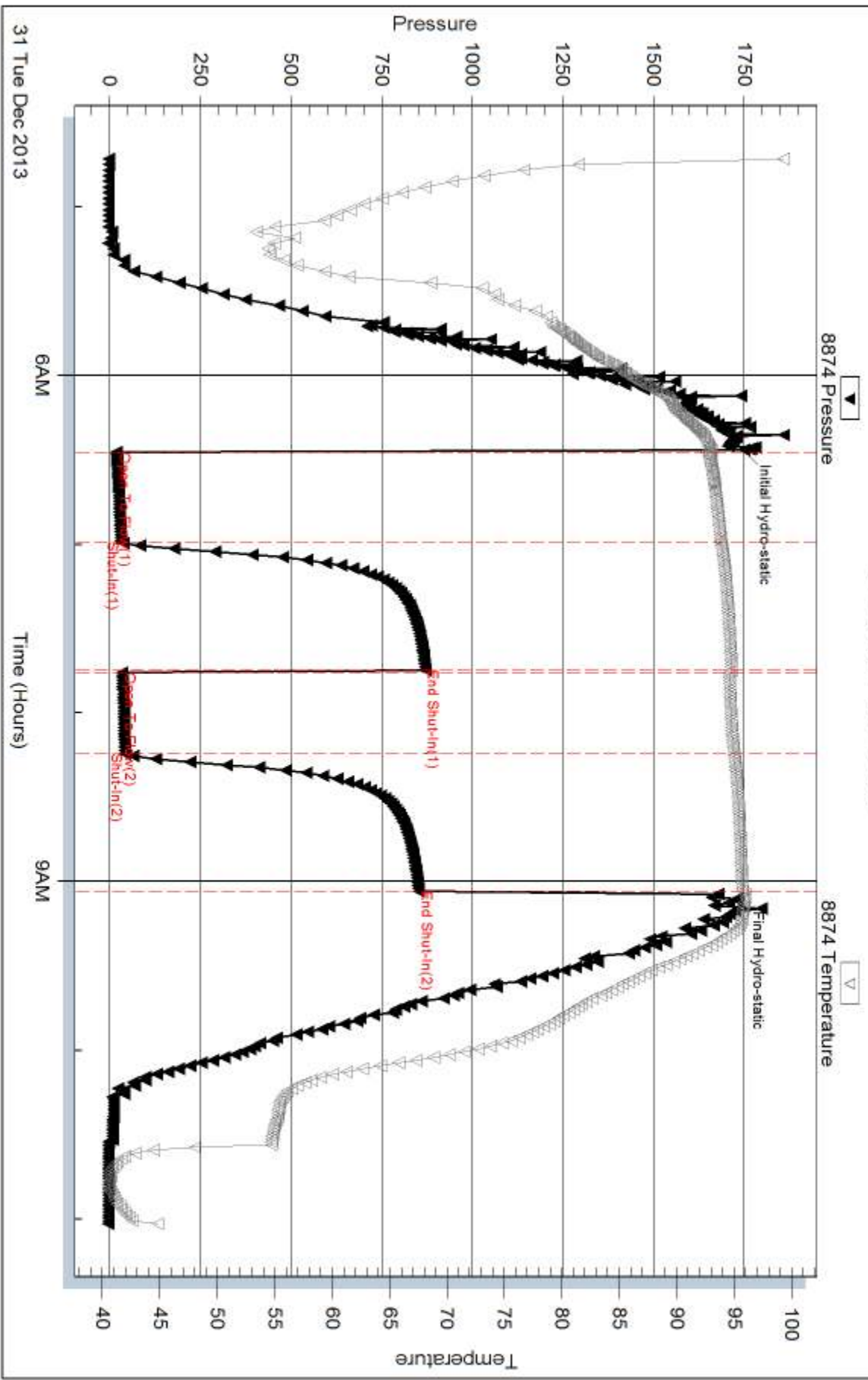
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

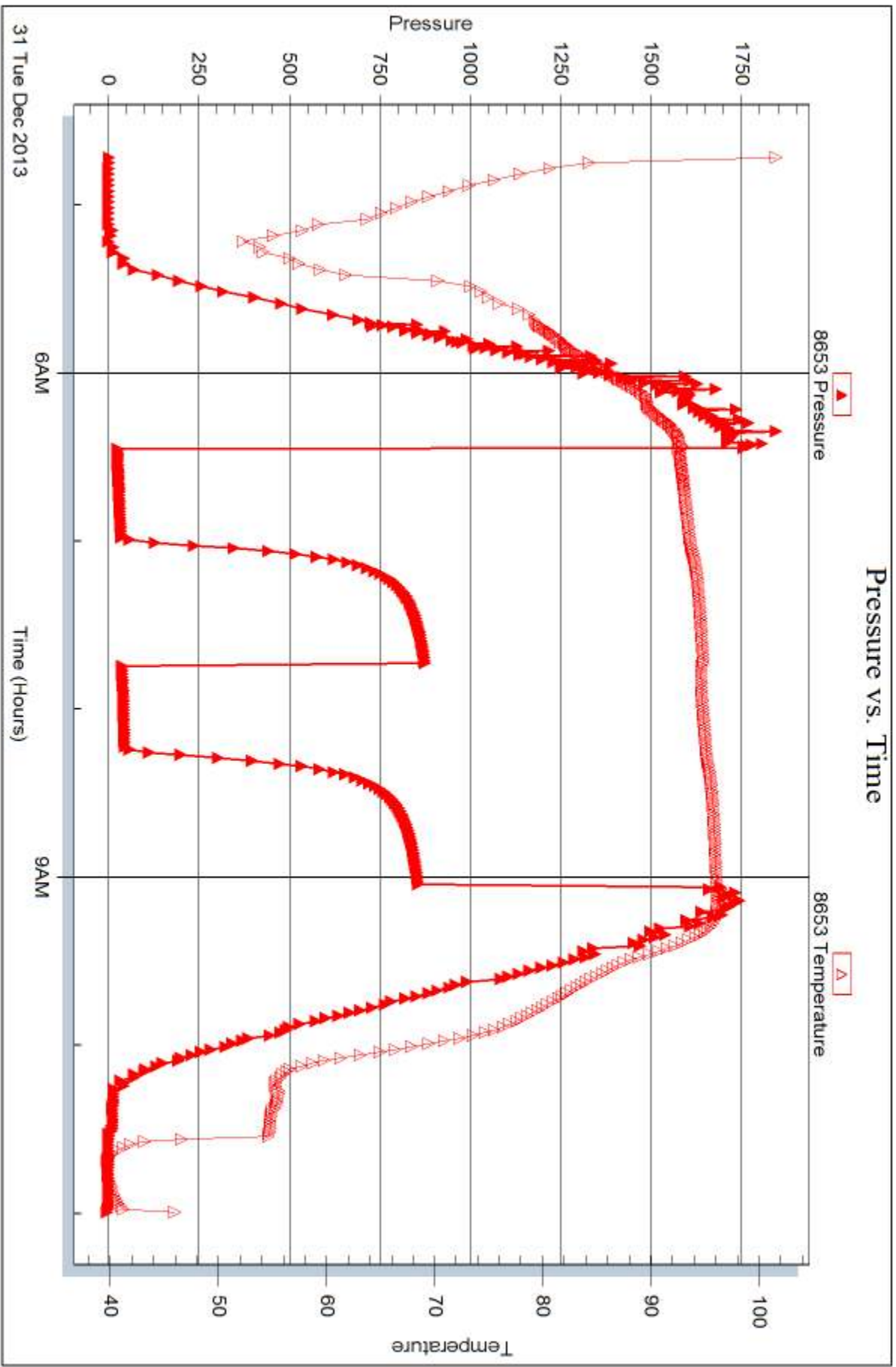


Serial #: 8653

Outside Bach Oil Production

Billy #3

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 53565

Printed: 2014.01.08 @ 13:17:09





DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production**

P.O. Box 723
Alma, NE 68920

ATTN: Bob Peterson

Billy #3

3-2S-19W Phillips, KS

Start Date: 2013.12.31 @ 11:24:00

End Date: 2013.12.31 @ 18:49:30

Job Ticket #: 53566 DST #: 2

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

Printed: 2014.01.08 @ 13:16:42



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bach Oil Production

3-2S-19W Phillips, KS

P.O. Box 723
Alma, NE 68920

Billy #3

Job Ticket: 53566

DST#: 2

ATTN: Bob Peterson

Test Start: 2013.12.31 @ 11:24:00

GENERAL INFORMATION:

Formation: **LKC "I,J,K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:03:10

Time Test Ended: 18:49:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 3583.00 ft (KB) To 3663.00 ft (KB) (TVD)

Reference Elevations: 2269.00 ft (KB)

Total Depth: 3663.00 ft (KB) (TVD)

2264.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8874 Inside

Press@RunDepth: 71.19 psig @ 3584.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.31

End Date:

2013.12.31

Last Calib.: 2013.12.31

Start Time: 11:25:00

End Time:

18:49:30

Time On Btm: 2013.12.31 @ 13:02:50

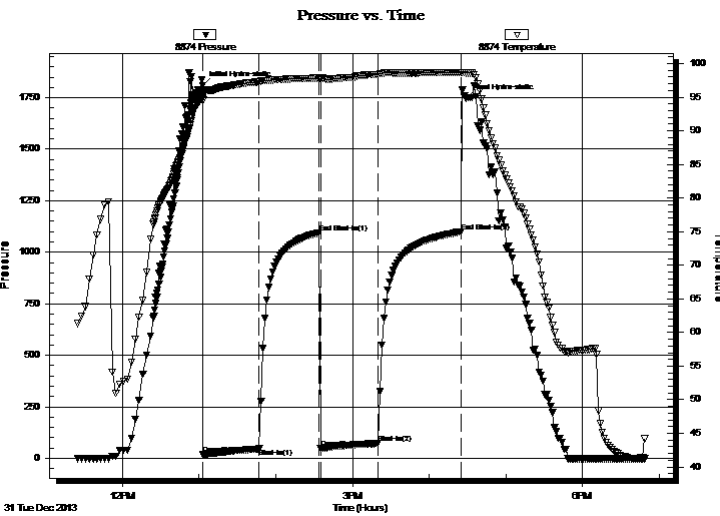
Time Off Btm: 2013.12.31 @ 16:29:00

TEST COMMENT: 45 - IF- 1/2" Blow built to 4"

45 - IS- No Return

45 - FF- Surface Blow built to 3"

60 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1810.23	94.93	Initial Hydro-static
1	18.12	94.58	Open To Flow (1)
45	45.66	97.30	Shut-In(1)
91	1095.05	97.87	End Shut-In(1)
93	48.92	97.68	Open To Flow (2)
138	71.19	98.42	Shut-In(2)
202	1098.73	98.69	End Shut-In(2)
207	1747.35	98.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	OSWM 98M 2W (oil spots)	0.66

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bach Oil Production

3-2S-19W Phillips, KS

P.O. Box 723
Alma, NE 68920

Billy #3

Job Ticket: 53566

DST#: 2

ATTN: Bob Peterson

Test Start: 2013.12.31 @ 11:24:00

Tool Information

Drill Pipe:	Length: 3445.00 ft	Diameter: 3.80 inches	Volume: 48.32 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 48.91 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3583.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	108.00 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			3556.00	
Shut In Tool	5.00			3561.00	
Hydraulic tool	5.00			3566.00	
Jars	5.00			3571.00	
Safety Joint	3.00			3574.00	
Packer	5.00			3579.00	28.00 Bottom Of Top Packer
Packer	4.00			3583.00	
Stubb	1.00			3584.00	
Recorder	0.00	8653	Outside	3584.00	
Recorder	0.00	8874	Inside	3584.00	
Perforations	9.00			3593.00	
Change Over Sub	1.00			3594.00	
Drill Pipe	63.00			3657.00	
Change Over Sub	1.00			3658.00	
Bullnose	5.00			3663.00	80.00 Bottom Packers & Anchor

Total Tool Length: 108.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bach Oil Production

3-2S-19W Phillips, KS

P.O. Box 723
Alma, NE 68920

Billy #3

Job Ticket: 53566

DST#: 2

ATTN: Bob Peterson

Test Start: 2013.12.31 @ 11:24:00

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	OSWM 98M 2W (oil spots)	0.660

Total Length: 125.00 ft Total Volume: 0.660 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

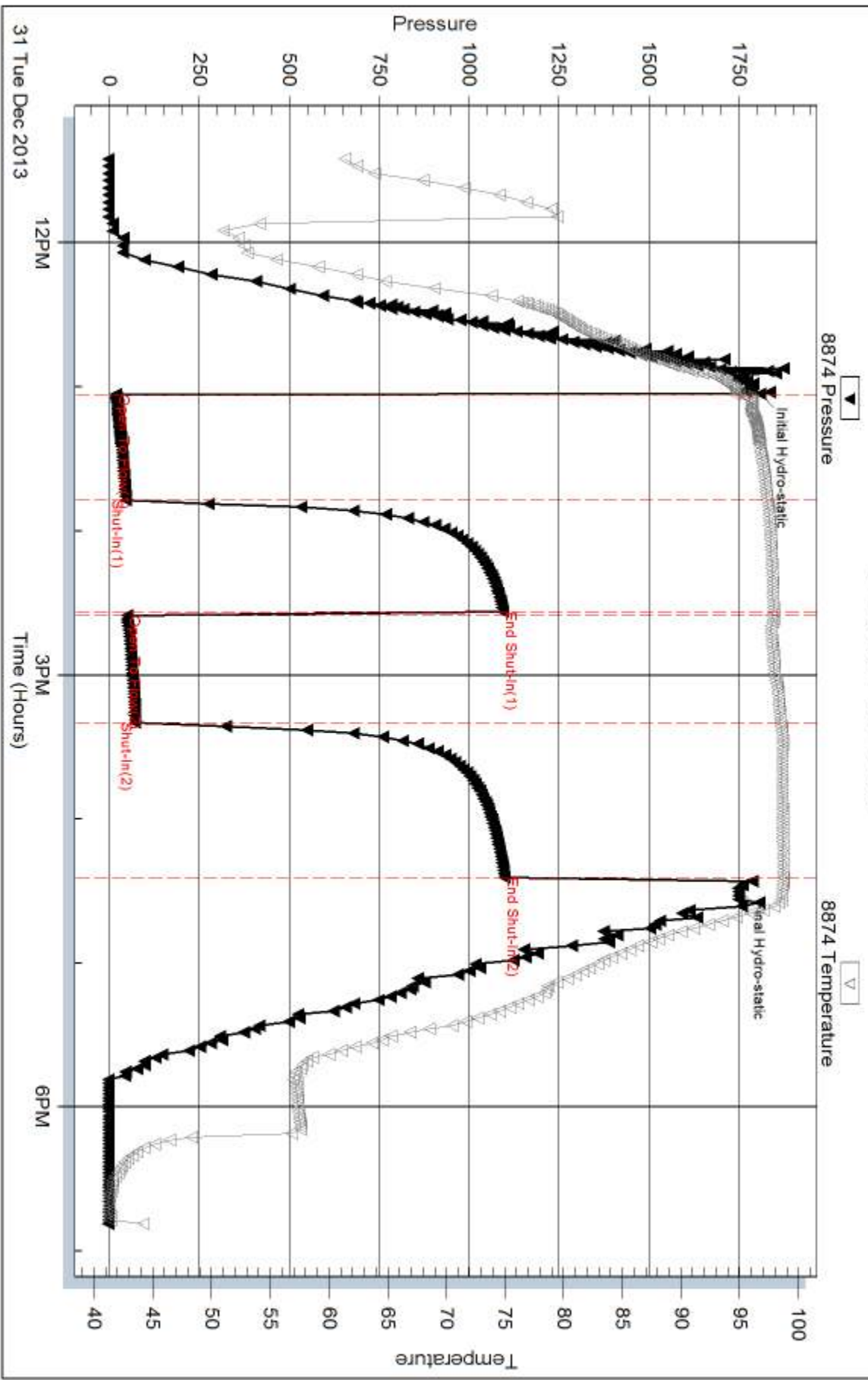
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



31 Tue Dec 2013

12PM

3PM

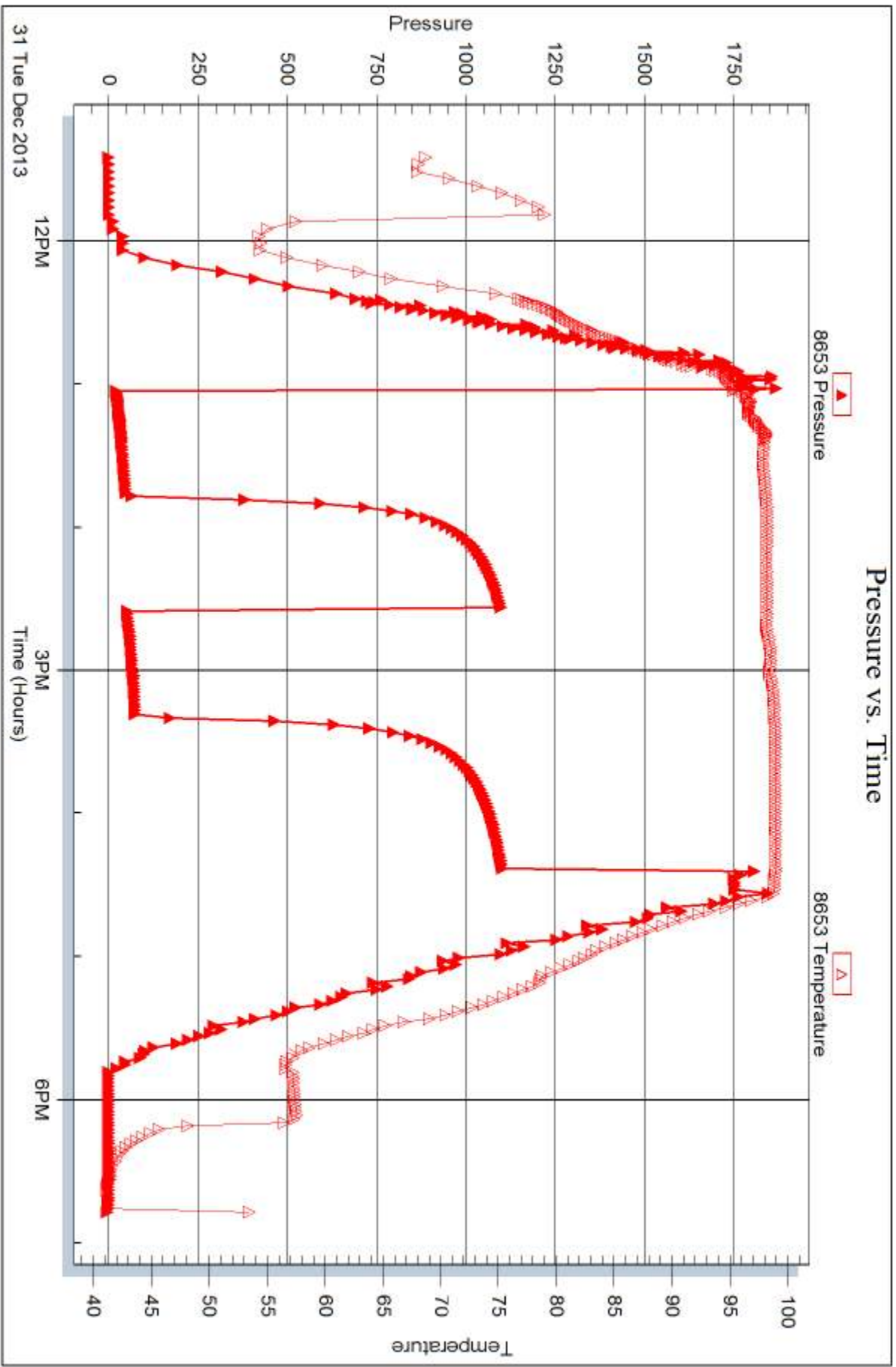
6PM

Serial #: 8653

Outside Bach Oil Production

Billy #3

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 53566

Printed: 2014.01.08 @ 13:16:45



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53565

Well Name & No. Billy #3 Test No. 1 Date 12-31-13
 Company Bach Oil Production Elevation 2269 KB 2264 GL
 Address P.O. Box 723 Alma, NE 68920
 Co. Rep / Geo. Bob 1 Rig Murkin #24
 Location: Sec. 3 Twp. 2S Rge. 19W Co. Phillips State KS

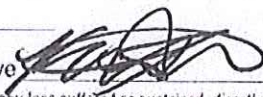
Interval Tested 3458 - 3538 Zone Tested LKC "C-F"
 Anchor Length 80 Drill Pipe Run 3316' Mud Wt. 9.0
 Top Packer Depth 3454 Drill Collars Run 120 Vis 62
 Bottom Packer Depth 3458 - 3538 straddle packer Wt. Pipe Run 0 WL 5.6
 Total Depth 3653 Chlorides 400 ppm System LCM 1.5#

Blow Description IF - 3/4" Blow built to 2 3/4"
IST - NO Return
FF - Surface Blow started at 10min. Built to 1"
FSI - NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>Mud</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 60 BHT 96 Gravity - API RW - @ - ° F Chlorides - ppm
 (A) Initial Hydrostatic 1750 Test 1150 T-On Location 3:45 AM
 (B) First Initial Flow 19 Jars 250 T-Started 4:42 AM
 (C) First Final Flow 32 Safety Joint 75 T-Open 6:30 AM
 (D) Initial Shut-In 869 Circ Sub NIC T-Pulled 9:00 AM
 (E) Second Initial Flow 35 Hourly Standby T-Out 11:00 AM
 (F) Second Final Flow 42 Mileage 122mi 189.10 Comments Show of oil spots in tool
 (G) Final Shut-In 851 Sampler Ruined Shale Packer
 (H) Final Hydrostatic 1730 Straddle 600 Ruined Packer

Initial Open 30 Extra Packer Extra Copies
 Initial Shut-In 45 Extra Recorder Sub Total 0
 Final Flow 30 Day Standby Total 2264.10
 Final Shut-In 45 Accessibility MP/DST Disc't
 Sub Total 2264.10

Approved By _____ Our Representative 

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. 53566

Well Name & No. Billy #3 Test No. 2 Date 12-31-13
 Company Bach Oil Production Elevation 2269 KB 2264 GL
 Address P.O. Box 723 Alma, NE 68920
 Co. Rep / Geo. Bob Peterson Rig Murfin #24
 Location: Sec. 3 Twp. 2S Rge. 19W Co. Phillips State KS

Interval Tested 3583 - 3663 Zone Tested LKC "I, J"
 Anchor Length 80' Drill Pipe Run 3445' Mud Wt. 9.0
 Top Packer Depth 3579 Drill Collars Run 138 Vis 62
 Bottom Packer Depth 3583 Wt. Pipe Run Ø WL 5.6
 Total Depth 3663 Chlorides 4100 ppm System LCM 1.5#
 Blow Description IF - 1/2" Blow built to 4"
ISI - No Return
FF - Surface Blow built to 3"
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>125</u>	<u>OSUM</u>	<u>SPOTS</u>	<u>2</u>	<u>98</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 125 BHT 99' Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1810</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>3:45 AM</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>11:24 AM</u>
(C) First Final Flow <u>45</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1:05 PM</u>
(D) Initial Shut-In <u>1095</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>4:20 PM</u>
(E) Second Initial Flow <u>48</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>6:50 PM</u>
(F) Second Final Flow <u>71</u>	<input checked="" type="checkbox"/> Mileage <u>N/C</u>	Comments
(G) Final Shut-In <u>1098</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1747</u>	<input type="checkbox"/> Straddle	

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1475
 MP/DST Disc't

Approved By _____ Our Representative 

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GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

BACH OIL PRODUCTION

WELL: BILLY #3

LOC.: 600' FSL & 2310' FWL
SEC. 3-2-19W
PHILLIPS COUNTY, KANSAS
API: 15-147-20797-00-00

DRILLING CONTR.: MURFIN RIG #24
SPUD: 12-26-13 COMP: 12-30-13
MUD UP: 2850' TYPE MUD: CHEM.
DRILL TIME: 3050 to' RTD
RTD: 3665' LTD:3662'
SAMPLES SAVED: 3080'-RTD
GEOLOGIST: ROBERT J. PETERSEN

ELEVATION

KB: 2269
GL: 2264
LOG MEASURED
FROM: KB

SURFACE CASING

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

PRODUCTION CASING

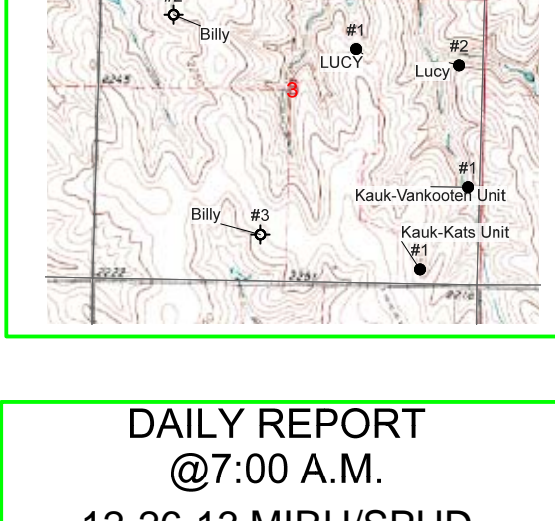
D&A

WELL LOG SURVEYS

Compensated Density
Dual Induction
Micro

ELECTRIC LOG TOPS

FORMATION	DEPTH	DATUM	POSITION
Stone Corral	1842	+427	+4
Base Stone Corral	1853	+416	+13
Topeka	3188	-919	+1
Heebner	3397	-1128	+1
Toronto	3426	-1157	+1
Lansing	3445	-1176	+1
Muncie Creek	3555	-1286	+1
Stark	3621	-1352	-1
RTD	3625	-1356	-1



REFERENCE WELL:

Lucy#1
2100' FNL & 1750' FEL
3-2-19W

REMARKS AND RECOMMENDATIONS

This well was plugged and abandoned

Respectfully submitted,
Robert J. Petersen
Robert J. Petersen

DAILY REPORT @ 7:00 A.M.

12-26-13 MIRU/SPUD
12-27-13 320'
12-28-13 2130'
12-29-13 3000'
12-30-13 3425'
12-31-13 3665'

