



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1096940
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: _____



1096940

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
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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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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

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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INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 131862
Invoice Date: Jul 12, 2012
Page: 1

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



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

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Bach	Hanke #2	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Russell	Jul 12, 2012	8/11/12

Quantity	Item	Description	Unit Price	Amount
170.00	MAT	Class A Common	16.25	2,762.50
3.00	MAT	Gel	21.25	63.75
6.00	MAT	Chloride	58.20	349.20
179.00	SER	Handling	2.25	402.75
12,530.00	SER	Drayage	0.11	1,378.30
1.00	SER	Surface	1,125.00	1,125.00
70.00	SER	Pump Truck Mileage	7.00	490.00
70.00	SER	Light Vehicle Mileage	4.00	280.00
1.00	CEMENTER	Todd Milarch		
1.00	EQUIP OPER	Tony Pfannenstiel		
1.00	OPER ASSIST	Walter Keith		

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

\$ 2014.79

ONLY IF PAID ON OR BEFORE
Aug 6, 2012

Subtotal	6,851.50
Sales Tax	215.93
Total Invoice Amount	7,067.43
Payment/Credit Applied	
TOTAL	7,067.43

ALLIED OIL & GAS SERVICES, LLC 056168

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Rx 35ell

DATE <u>7-12-12</u>	SEC. <u>22</u>	TWP. <u>36</u>	RANGE <u>19</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00</u>	JOB FINISH <u>12:00</u>
LEASE <u>Hank</u>	WELL # <u>2</u>	LOCATION <u>Speed N to 36 W to 700</u>			COUNTY <u>PHILLIPS</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		<u>35 5 E sink</u>			<u>2-01</u>	<u>6-8</u>	

CONTRACTOR Murphy 16 OWNER _____
TYPE OF JOB Surface

HOLE SIZE <u>17 1/2</u>	T.D. <u>234</u>	CEMENT AMOUNT ORDERED <u>170 yd Class A</u>
CASING SIZE <u>8 3/4</u>	DEPTH <u>233</u>	<u>31.66 27.65</u>
TUBING SIZE	DEPTH	
DRILL PIPE	DEPTH	
TOOL	DEPTH	

PRES. MAX	MINIMUM	COMMON <u>170</u>	@ <u>16.25</u>	<u>2762.50</u>
MEAS. LINE	SHOE JOINT <u>15</u>	POZMIX	@	
CEMENT LEFT IN CSG. <u>15</u>		GEL <u>3</u>	@ <u>21.25</u>	<u>63.75</u>
PERFS.		CHLORIDE <u>6</u>	@ <u>38.20</u>	<u>349.20</u>
DISPLACEMENT <u>13 3/4</u>		ASC	@	

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Todd</u>			
# <u>409</u>	HELPER <u>Tom</u>			
BULK TRUCK				
# <u>410</u>	DRIVER <u>Walter</u>			
BULK TRUCK				
#	DRIVER			
		HANDLING <u>179</u>	@ <u>2.25</u>	<u>402.75</u>
		MILEAGE <u>12,530</u>	@	<u>1378.30</u>
				TOTAL <u>4956.50</u>

REMARKS:

Establish superblock mixed 170 cu
cement, displacement 13 3/4 bbl shift
well in
2 cement DTD circulate to surface
Disconn & 8:45

SERVICE

DEPTH OF JOB	<u>1125</u>	
PUMP TRUCK CHARGE		
EXTRA FOOTAGE	@	
MILEAGE MLW <u>70</u>	@ <u>7.10</u>	<u>497.00</u>
MANIFOLD	@	
<u>MLW 70</u>	@ <u>4.10</u>	<u>287.00</u>
	@	
		TOTAL <u>1895.00</u>

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

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
	@	
		TOTAL <u>0</u>

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 _____

SIGNATURE [Signature]

SALES TAX (If Any) 215.93
TOTAL CHARGES 6,851.50
DISCOUNT 20/50 2014.79 IF PAID IN 30 DAYS
BS 7-13

net 4836.71
before tax

PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 131950

Invoice Date: Jul 16, 2012

Page: 1



Bill To:

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

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Bach	Hanke #2	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-02	Russell	Jul 16, 2012	8/15/12

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
3.00	MAT	Chloride	58.20	174.60
450.00	MAT	AMD	23.55	10,597.50
16.00	MAT	Salt	23.95	383.20
2,250.00	MAT	Gilsonite	0.89	2,002.50
667.00	SER	Handling	2.25	1,500.75
46,690.00	SER	Mileage	0.11	5,135.90
1.00	SER	Production String	2,225.00	2,225.00
70.00	SER	Pump Truck Mileage	7.00	490.00
1.00	SER	Manifold Head Rental - No Charge		
70.00	SER	Light Vehicle Mileage	4.00	280.00
1.00	EQP	5.5 Float Shoe	381.00	381.00
4.00	EQP	5.5 Basket	236.00	944.00
10.00	EQP	5.5 Centralizer	34.00	340.00
1.00	EQP	5.5 Latch Down Plug Assembly	480.00	480.00
1.00	CEMENTER	Glenn Ginther		
1.00	EQUIP OPER	Woody O'Neil		
1.00	OPER ASSIST	Walter Keith		

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

\$ 7165.91

ONLY IF PAID ON OR BEFORE

Aug 10, 2012

Subtotal	26,970.70
Sales Tax	1,179.06
Total Invoice Amount	28,149.76
Payment/Credit Applied	
TOTAL	28,149.76

ALLIED OIL & GAS SERVICES, LLC 056455

Fed. Tax I.D.# 20-5975804

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

SERVICE POINT:

7-17-12 Russell, KS

MIDNIGHT ~~7:30 AM~~ - 2012

DATE 7-16-12	SEC. 22	TWP. 3 S	RANGE 19 W	CALLED OUT	ON LOCATION	JOB START 7:30 AM	JOB FINISH 2:00 PM
LEASE HANKE	WELL # 2	LOCATION Speed N - To 36 Hwy 2 W			COUNTY PHILLIPS	STATE KANSAS	
OLD OR (NEW) (Circle one)				3/4 S 1/2 E		2-02 6.8	

CONTRACTOR MURFIN DRIB. Rig #16
 TYPE OF JOB PRODUCTION STRIKE LTD 3464'
 HOLE SIZE 7 7/8 R.T.D. @ 3465'
 CASING SIZE 5 1/2 New DEPTH @ 3464'
 TUBING SIZE 17 # CSG, DEPTH
 DRILL PIPE DEPTH
 TOOL LATCH Down Plug Assy DEPTH @ 3453
 PRES. MAX 2200 MINIMUM
 MEAS. LINE SHOE JOINT 11.10
 CEMENT LEFT IN CSG 11.10
 PERFS.
 DISPLACEMENT 80.20 / BBL

OWNER
 CEMENT
 AMOUNT ORDERED 150 SX @ 2.00 cc
 450 SX
 400 AMD, 5th Gilsonite Per SX
 COMMON .90 SX @ 16.25 1462.50
 POZMIX .60 SX @ 8.50 510.00
 GEL 3 SX @ 21.25 63.75
 CHLORIDE 3 SX @ 58.20 174.60
 ASC @
 AMD, 450 SX UNITS @ 23.55 10597.50
 w/ 5th Gilsonite Per @
 SALT 10 SX @ 23.95 383.20
 Gilsonite 45 SX @
 2250# @ 0.89 2002.50
 HANDLING 667
 TOTAL SX @ 2.25 1500.75
 MILEAGE 170 Ten Mile @ 114 5135.90
 TOTAL 21830.70

EQUIPMENT

PUMP TRUCK CEMENTER Glenn G.
 # 417 HELPER Woody O.
 BULK TRUCK
 # 481 DRIVER Robert Y.
 BULK TRUCK
 # 473 DRIVER Walter K.

REMARKS: Cent #1-#10
 BSK #7, #34, #48, #72, 46690

SERVICE

DEPTH OF JOB 3464'
 PUMP TRUCK CHARGE 2225.00
 EXTRA FOOTAGE @
 MILEAGE 170 HV MI @ 7.00 490.00
 MANIFOLD HEAD @ 20.00 @
 170 LV MI @ 4.00 280.00
 TOTAL 2995.00

PLUG & FLOAT EQUIPMENT

VL 1-FLOAT Shoe 381.00
 VL 4-BASKETS @ 236.00 944.00
 VL 10-CENTRALIZERS @ 34.00 340.00
 VL 1-Latch Down Plug Assy @ 480.00
 TOTAL 2145.00

Run 83 New JOINTS OF 17" 5 1/2" CSG -
 SET @ 3464' Reverse Circulation
 Circ. 3/4 HR, Drop APU Ball, Circulate
 Another 15 MIN. Pump 405 SX AMD.
 Followed By 150 SX @ 40, Clear-Line
 Release Latch Down Plug, & Displace
 80 BBL Land Plug @ 2200 # Release
 Pressure & Plug (Held), THANKS
 5 SX @ max flow

CHARGE TO: Bach Oil Company / DBA Jason Bach

CITY STATE ZIP

Cement DID CIRCULATE TO SURFACE! PUT APPROX. 40 SX IN PIT.

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 Dale Fertagel

SIGNATURE Dale Fertagel

SALES TAX (if Any) 1179.05
 TOTAL CHARGES 26,970.70

DISCOUNT 20% 7165.91 IF PAID IN 30 DAYS
 BS 7-18

Net 19804.79 before tax

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

BACH OIL PRODUCTION

WELL: HANKE #2

**LOC.: 677' FNL & 2295' FEL
SEC. 22-3-19W
PHILLIPS COUNTY, KANSAS
API: 15-147-20685-00-00**

**DRILLING CONTR.: MURFIN RIG #16
SPUD: 07-12-12 COMP: 07-16-12
MUD UP: 2800' TYPE MUD: CHEM.
DRILL TIME: 2900'
RTD: 3465' LTD: 3464'
SAMPLES SAVED: 2900'-RTD
GEOLOGIST: ROBERT J. PETERSEN**

ELEVATION

KB: 2057
GL: 2052
LOG MEASURED
FROM: KB

SURFACE CASING

20# 8 5/8" Casing set @ 226 w/150 SX

PRODUCTION CASING

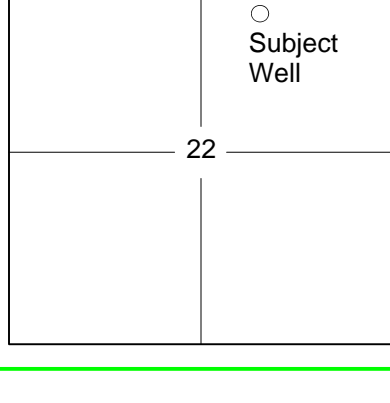
5 1/2" Casing set @ 3465'

WELL LOG SURVEYS

DIL/CDL

ELECTRIC LOG TOPS

FORMATION	DEPTH	DATUM	POS. A	POS. B
Stone Corral	1607	+450	-12	-1
Base Stone Corral	1632	+425	-16	Flat
Topeka	3000	-943	-16	+4
Heebner	3196	-1139	-13	+8
Toronto	3222	-1165	-14	+9
Lansing	3241	-1184	-13	+9
BKC (sample top)	3460	-1403	-14	+7



REFERENCE WELL:

Well A
Bach Oil Prod.
Hanke #1
1930' FNL & 1650' FEL
22-3-19W

Well B
Derby Oil
Miller A 1
SE SW SE
15-3-19W

DAILY REPORT

@7:00 A.M.

7-12-12 MIRU SPUD
7-13-12 380'
7-14-12 2230'
7-15-12 3180'
7-16-12 3340' DST #1
7-17-12 3460' RTD

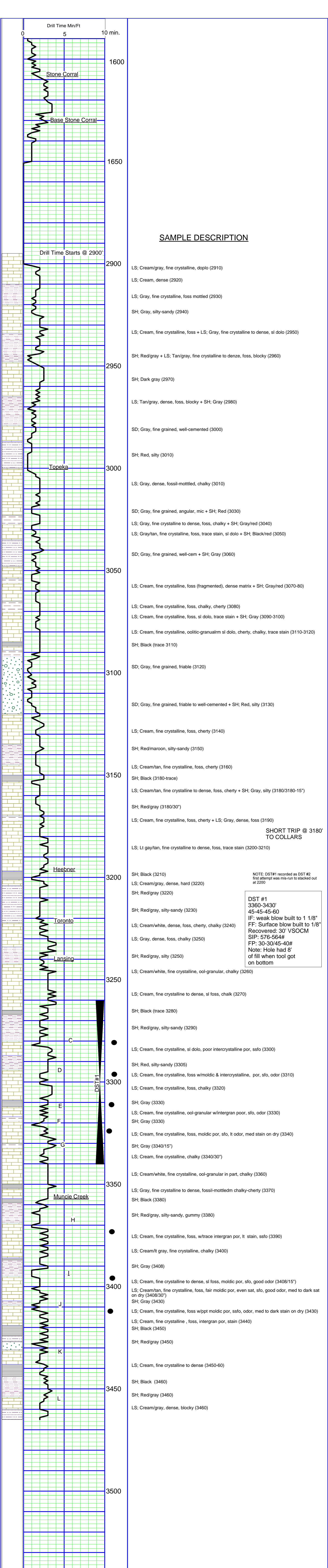
REMARKS AND RECOMMENDATIONS

Production casing was run to further test this well.

Respectfully submitted,

Robert J. Petersen

Robert J. Petersen
Sept. 15, 2011



SAMPLE DESCRIPTION

LS; Cream/gray, fine crystalline, doplo (2910)

LS; Cream, dense (2920)

LS; Gray, fine crystalline, foss mottled (2930)

SH; Gray, silty-sandy (2940)

LS; Cream, fine crystalline, foss + LS; Gray, fine crystalline to dense, sl dolo (2950)

SH; Red/gray + LS; Tan/gray, fine crystalline to dense, foss, blocky (2960)

SH; Dark gray (2970)

LS; Tan/gray, dense, foss, blocky + SH; Gray (2980)

SD; Gray, fine grained, well-cemented (3000)

SH; Red, silty (3010)

LS; Gray, dense, fossil-mottled, chalky (3010)

SD; Gray, fine grained, angular, mic + SH; Red (3030)

LS; Gray, fine crystalline to dense, foss, chalky + SH; Gray/red (3040)

LS; Gray/tan, fine crystalline, foss, trace stain, sl dolo + SH; Black/red (3050)

SD; Gray, fine grained, well-cem + SH; Gray (3060)

LS; Cream, fine crystalline, foss (fragmented), dense matrix + SH; Gray/red (3070-80)

LS; Cream, fine crystalline, foss, chalky, cherty (3080)

LS; Cream, fine crystalline, foss, sl dolo, trace stain + SH; Gray (3090-3100)

LS; Cream, fine crystalline, oolitic-granularm sl dolo, cherty, chalky, trace stain (3110-3120)

SH; Black (trace 3110)

SD; Gray, fine grained, friable (3120)

SD; Gray, fine grained, friable to well-cemented + SH; Red, silty (3130)

LS; Cream, fine crystalline, foss, cherty (3140)

SH; Red/maroon, silty-sandy (3150)

LS; Cream/tan, fine crystalline, foss, cherty (3160)

SH; Black (3180-trace)

LS; Cream/tan, fine crystalline to dense, foss, cherty + SH; Gray, silty (3180/3180-15")

SH; Red/gray (3180/30")

LS; Cream, fine crystalline, foss, cherty + LS; Gray, dense, foss (3190)

LS; Lt gray/tan, fine crystalline to dense, foss, trace stain (3200-3210)

SH; Black (3210)

LS; Cream/gray, dense, hard (3220)

SH; Red/gray (3220)

SH; Red/gray, silty-sandy (3230)

LS; Cream/white, dense, foss, cherty, chalky (3240)

LS; Gray, dense, foss, chalky (3250)

SH; Red/gray, silty (3250)

LS; Cream/white, fine crystalline, ool-granular, chalky (3260)

LS; Cream, fine crystalline to dense, sl foss, chalk (3270)

SH; Black (trace 3280)

SH; Red/gray, silty-sandy (3290)

LS; Cream, fine crystalline, sl dolo, poor intercrystalline por, ssfo (3300)

SH; Red, silty-sandy (3305)

LS; Cream, fine crystalline, foss w/moldic & intercrystalline, por, sfo, odor (3310)

LS; Cream, fine crystalline, foss, chalky (3320)

SH; Gray (3330)

LS; Cream, fine crystalline, ool-granular w/intergran por, sfo, odor (3330)

SH; Gray (3330)

LS; Cream, fine crystalline, foss, moldic por, sfo, lt odor, med stain on dry (3340)

SH; Gray (3340/15")

LS; Cream, fine crystalline, chalky (3340/30")

LS; Cream/white, fine crystalline, ool-granular in part, chalky (3360)

LS; Gray, fine crystalline to dense, fossil-mottledm chalky-cherty (3370)

SH; Black (3380)

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

LS; Cream, fine crystalline, foss, w/trace intergran por, lt stain, ssfo (3390)

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

SH; Gray (3408)

LS; Cream, fine crystalline to dense, sl foss, moldic por, sfo, good odor (3408/15")

LS; Cream/tan, fine crystalline, foss, fair moldic por, even sat, sfo, good odor, med to dark sat on dry (3408/30")

SH; Gray (3430)

LS; Cream, fine crystalline, foss w/pt moldic por, ssfo, odor, med to dark stain on dry (3430)

LS; Cream, fine crystalline, foss, intergran por, stain (3440)

SH; Black (3450)

SH; Red/gray (3450)

LS; Cream, fine crystalline to dense (3450-60)

SH; Black (3460)

SH; Red/gray (3460)

LS; Cream/gray, dense, blocky (3460)

**SHORT TRIP @ 3180'
TO COLLARS**

NOTE: DST#1 recorded as DST #2
first attempt was mis-run to stacked out
at 2200

DST #1
3360-3430'
45-45-45-60'
IF: weak blow built to 1 1/8"
Recovered: 30' VSOCM
SIP: 576-564#
FP: 30-30/45-40#
Note: Hole had 8'
of fill when tool got
on bottom



DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production**

PO Box 723
Alma NE 68920-0723

ATTN: Jason Bach

Hanke #2

22-3s-19w Phillips,KS

Start Date: 2012.07.15 @ 19:19:55

End Date: 2012.07.15 @ 21:11:35

Job Ticket #: 49327 DST #: 1

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

Printed: 2012.07.24 @ 15:43:12



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Bach Oil Production
PO Box 723
Alma NE 68920-0723
ATTN: Jason Bach

22-3s-19w Phillips,KS

Hanke #2

Job Ticket: 49327

DST#: 1

Test Start: 2012.07.15 @ 19:19:55

GENERAL INFORMATION:

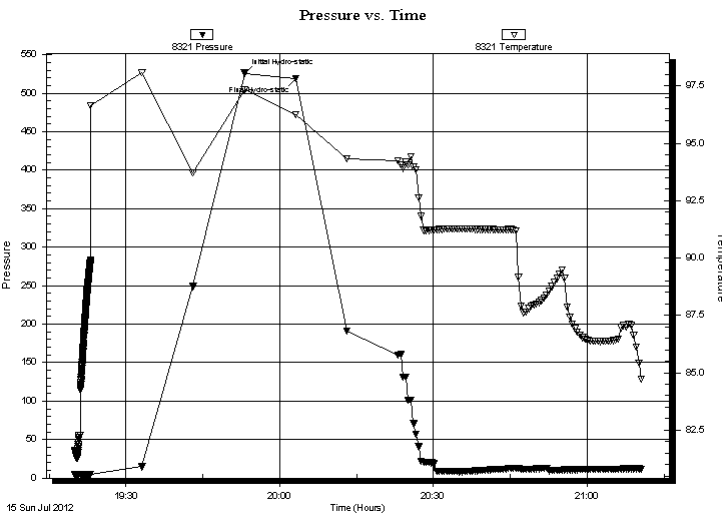
Formation: **LKC- C-D-E-F-G**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended: 21:11:35
 Interval: **3260.00 ft (KB) To 3340.00 ft (KB) (TVD)**
 Total Depth: 3340.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jeff Brown
 Unit No: 44
 Reference Elevations: 2057.00 ft (KB)
 2052.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8321

Inside

Press @ Run Depth: psig @ 3266.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.07.15 End Date: 2012.07.15 Last Calib.: 2012.07.15
 Start Time: 19:19:56 End Time: 21:10:35 Time On Btm: 2012.07.15 @ 19:53:05
 Time Off Btm: 2012.07.15 @ 20:03:05

TEST COMMENT: MIS-Run Hit a bridge stacked out



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	525.99	97.32	Initial Hydro-static
10	518.59	96.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bach Oil Production
PO Box 723
Alma NE 68920-0723
ATTN: Jason Bach

22-3s-19w Phillips,KS
Hanke #2
Job Ticket: 49327 **DST#: 1**
Test Start: 2012.07.15 @ 19:19:55

Tool Information

Drill Pipe:	Length: 3234.00 ft	Diameter: 3.80 inches	Volume: 45.36 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	2000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 45.50 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	lb
Depth to Top Packer:	3260.00 ft			Final	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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3233.00	
Shut In Tool	5.00			3238.00	
Hydraulic tool	5.00			3243.00	
Jars	5.00			3248.00	
Safety Joint	3.00			3251.00	
Packer	4.00			3255.00	28.00 Bottom Of Top Packer
Packer	5.00			3260.00	
Stubb	1.00			3261.00	
Perforations	4.00			3265.00	
Change Over Sub	1.00			3266.00	
Recorder	0.00	8321	Inside	3266.00	
Recorder	0.00	8737	Outside	3266.00	
Drill Pipe	63.00			3329.00	
Change Over Sub	1.00			3330.00	
Perforations	7.00			3337.00	
Bullnose	3.00			3340.00	80.00 Bottom Packers & Anchor
Total Tool Length:	108.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bach Oil Production

22-3s-19w Phillips,KS

PO Box 723
Alma NE 68920-0723

Hanke #2

Job Ticket: 49327

DST#: 1

ATTN: Jason Bach

Test Start: 2012.07.15 @ 19:19:55

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: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl

Total Length: ft Total Volume: bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

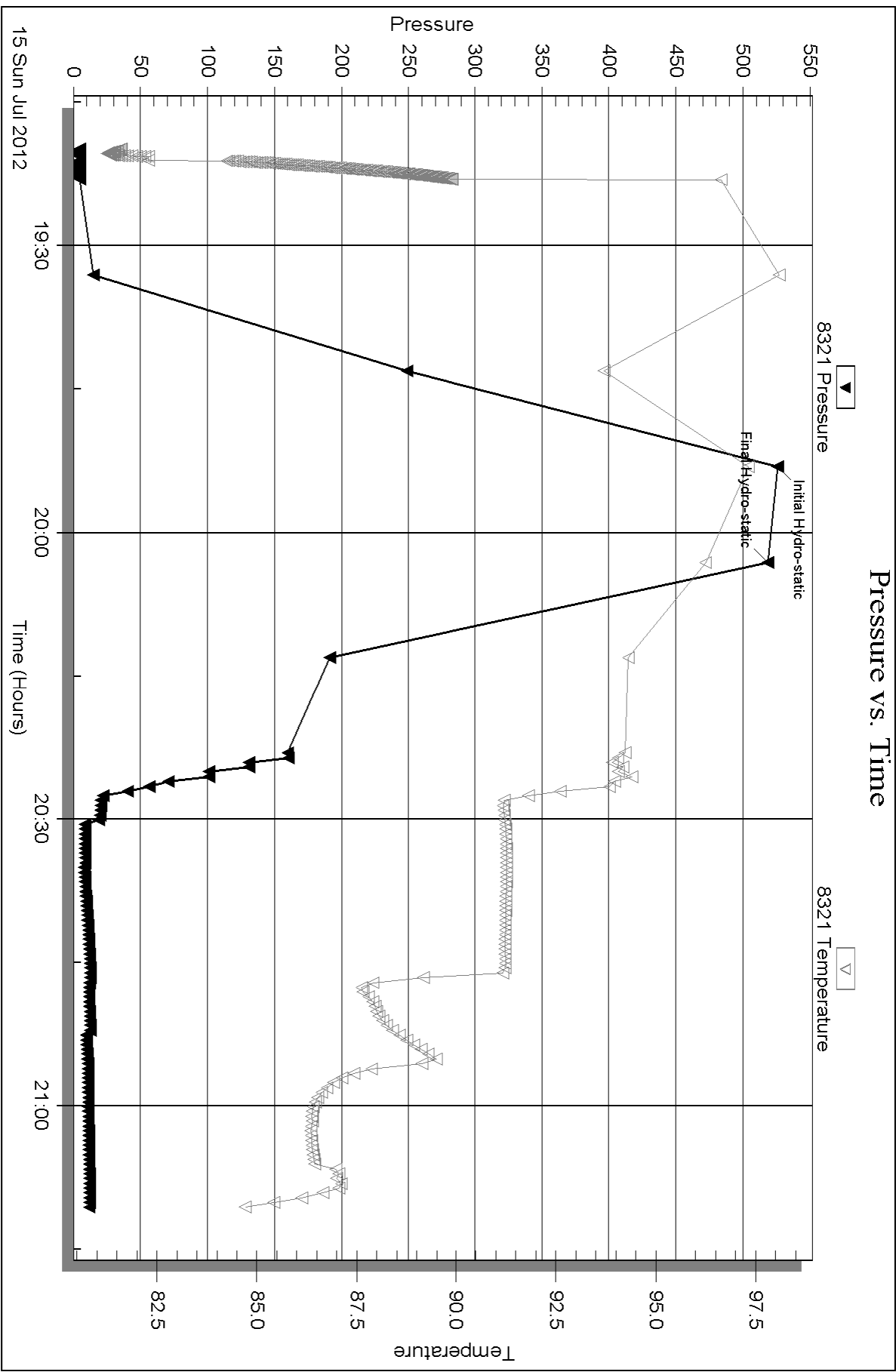
Serial #: 8321

Inside

Bach Oil Production

Hanke #2

DST Test Number: 1



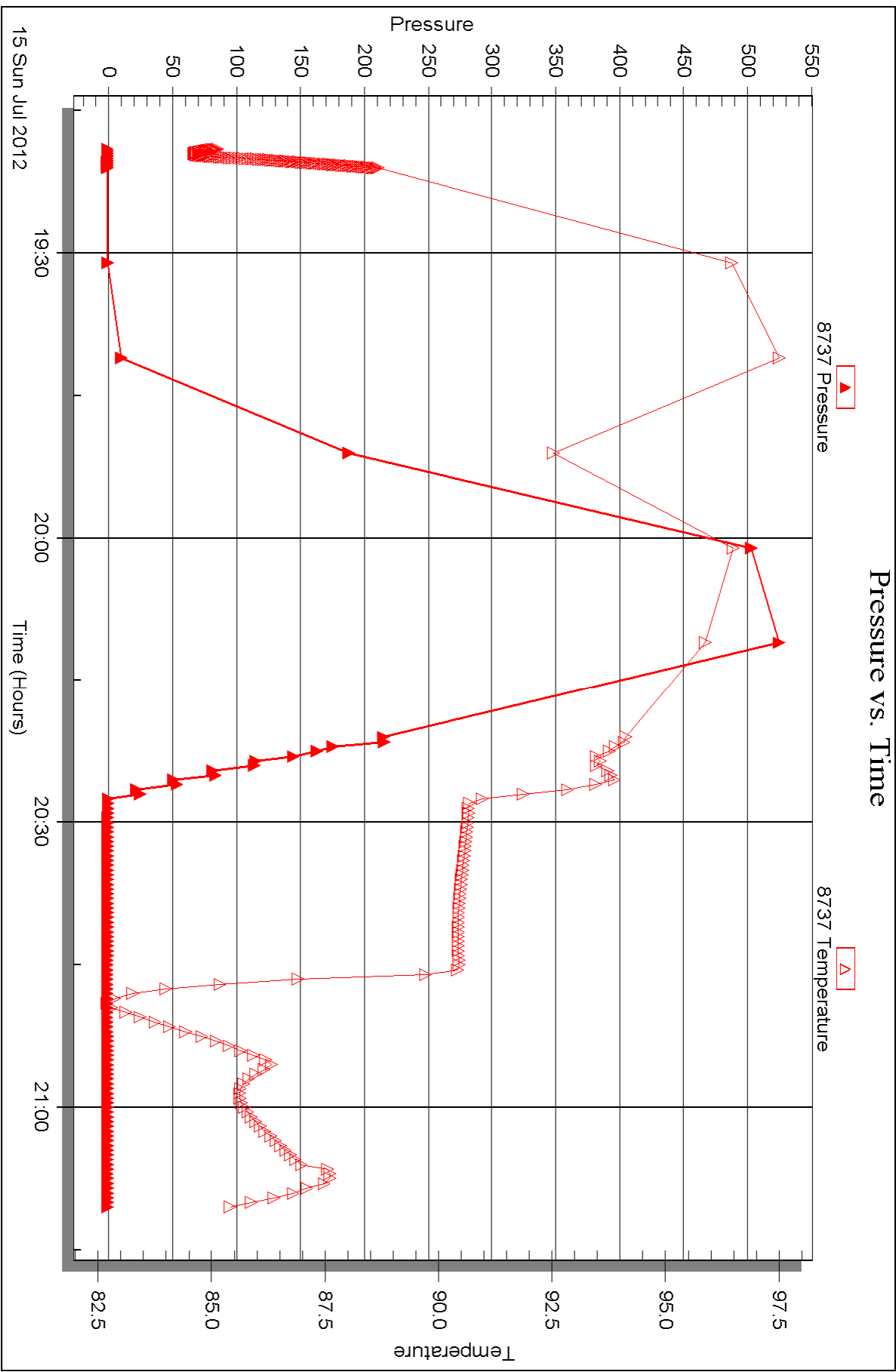
Serial #: 8737

Outside

Bach Oil Production

Hanke #2

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production**

PO Box 723
Alma NE 68920-0723

ATTN: Jason Bach

Hanke #2

22-3s-19w Phillips,KS

Start Date: 2012.07.16 @ 01:18:57

End Date: 2012.07.16 @ 08:12:57

Job Ticket #: 49328 DST #: 2

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

Printed: 2012.07.24 @ 15:42:21

Bach Oil Production
22-3s-19w Phillips,KS
Hanke #2
DST # 2
LKC- C-D-E-F-G
2012.07.16



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bach Oil Production
 PO Box 723
 Alma NE 68920-0723
 ATTN: Jason Bach

22-3s-19w Phillips,KS

Hanke #2

Job Ticket: 49328

DST#: 2

Test Start: 2012.07.16 @ 01:18:57

GENERAL INFORMATION:

Formation: **LKC- C-D-E-F-G**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:16:57
 Time Test Ended: 08:12:57
 Interval: **3260.00 ft (KB) To 3340.00 ft (KB) (TVD)**
 Total Depth: 3340.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jeff Brown
 Unit No: 44
 Reference Elevations: 2057.00 ft (KB)
 2052.00 ft (CF)
 KB to GR/CF: 5.00 ft

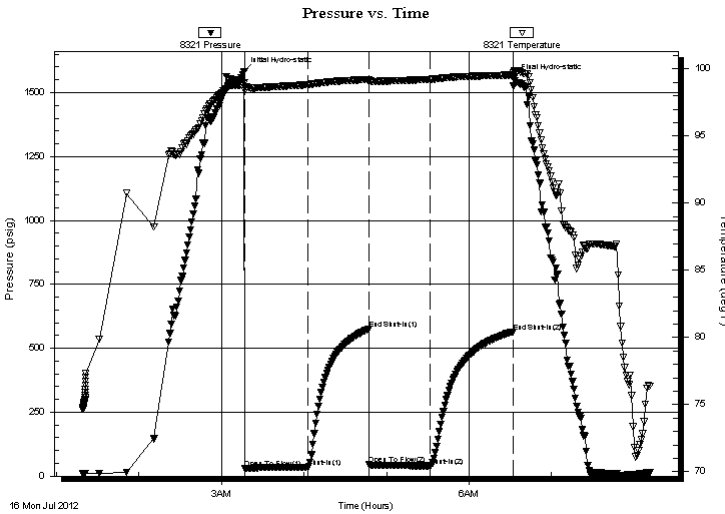
Serial #: 8321

Inside

Press @ Run Depth: 40.00 psig @ 3266.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.07.16 End Date: 2012.07.16 Last Calib.: 2012.07.16
 Start Time: 01:18:58 End Time: 08:11:57 Time On Btm: 2012.07.16 @ 03:16:27
 Time Off Btm: 2012.07.16 @ 06:32:57

TEST COMMENT: IFP-Weak blow built to 1 1/8 in
 ISI-Dead no blow back
 FFP-Weak surface blow built to 1/8 in
 FSI-Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1583.23	98.97	Initial Hydro-static
1	29.94	98.35	Open To Flow (1)
47	34.87	98.84	Shut-In(1)
91	576.26	99.22	End Shut-In(1)
91	44.86	99.05	Open To Flow (2)
136	40.00	99.23	Shut-In(2)
196	564.43	99.56	End Shut-In(2)
197	1556.73	99.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	V SOCM 2%O 98%M	0.16

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bach Oil Production
PO Box 723
Alma NE 68920-0723
ATTN: Jason Bach

22-3s-19w Phillips,KS
Hanke #2
Job Ticket: 49328 **DST#: 2**
Test Start: 2012.07.16 @ 01:18:57

Tool Information

Drill Pipe:	Length: 3234.00 ft	Diameter: 3.80 inches	Volume: 45.36 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 45.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3260.00 ft			Final 43000.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3233.00	
Shut In Tool	5.00			3238.00	
Hydraulic tool	5.00			3243.00	
Jars	5.00			3248.00	
Safety Joint	3.00			3251.00	
Packer	4.00			3255.00	28.00 Bottom Of Top Packer
Packer	5.00			3260.00	
Stubb	1.00			3261.00	
Perforations	4.00			3265.00	
Change Over Sub	1.00			3266.00	
Recorder	0.00	8321	Inside	3266.00	
Recorder	0.00	8737	Outside	3266.00	
Drill Pipe	63.00			3329.00	
Change Over Sub	1.00			3330.00	
Perforations	7.00			3337.00	
Bullnose	3.00			3340.00	80.00 Bottom Packers & Anchor
Total Tool Length:	108.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bach Oil Production
PO Box 723
Alma NE 68920-0723
ATTN: Jason Bach

22-3s-19w Phillips,KS
Hanke #2
Job Ticket: 49328 **DST#: 2**
Test Start: 2012.07.16 @ 01:18:57

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: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 800.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

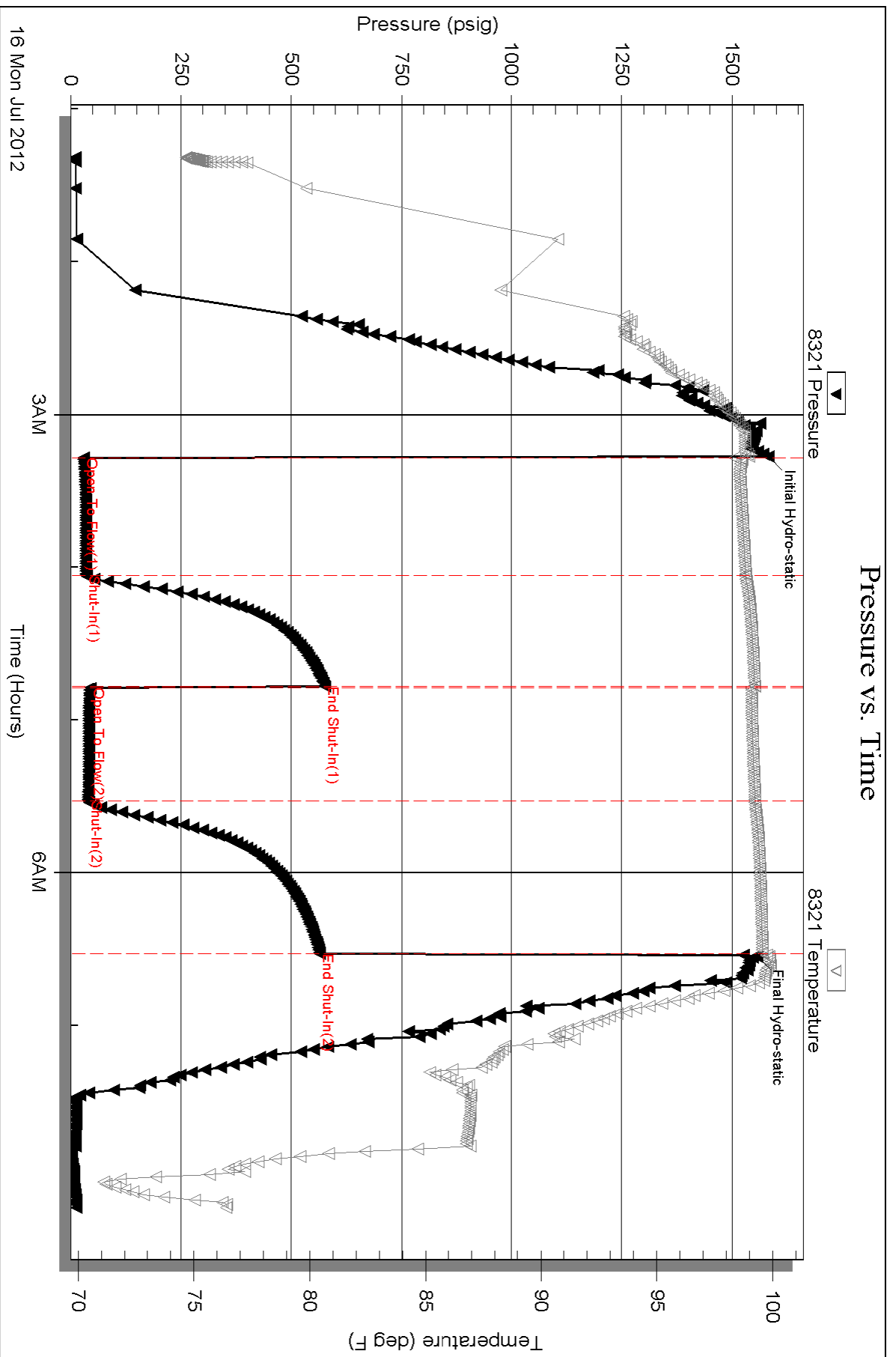
Length ft	Description	Volume bbl
30.00	VSOCM 2%O 98%M	0.157

Total Length: 30.00 ft Total Volume: 0.157 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Had 8 foot of fill in hole



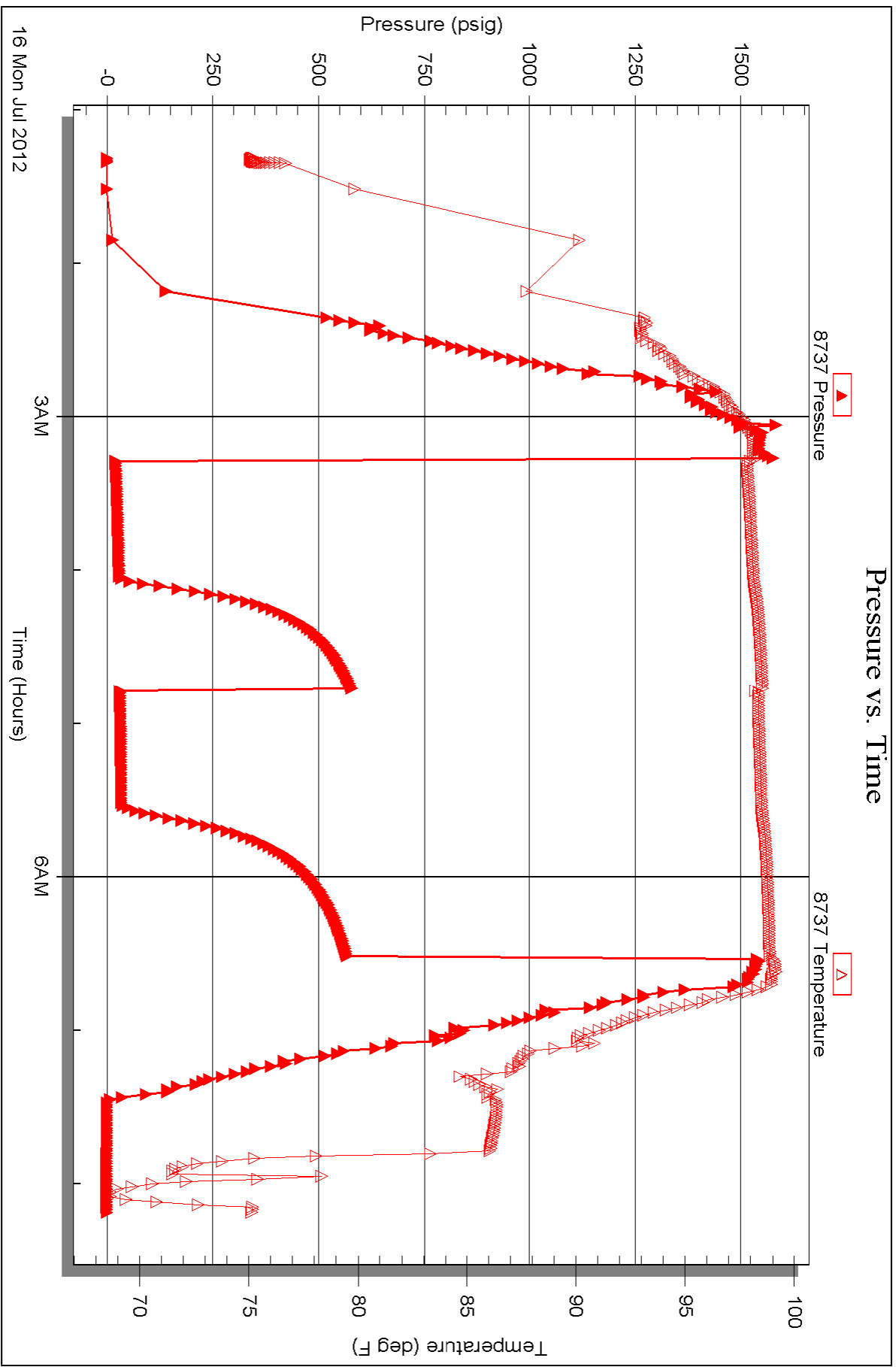
Serial #: 8737

Outside

Bach Oil Production

Hanke #2

DST Test Number: 2





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49328

Well Name & No. Hanke #2 Test No. 2 Date 7-16-12
 Company Bach oil production Elevation 2057 KB 2052 GL
 Address PO Box 723 ALMA NE 68920 + 0723
 Co. Rep / Geo. Bob Peterson Rig Murfin #16
 Location: Sec. 22 Twp. 3s Rge. 19W Co. Phillips State Ks

Interval Tested 3240 - 3340 Zone Tested LKC - C-D-E-F-G
 Anchor Length 80 Drill Pipe Run 3234 Mud Wt. 88
 Top Packer Depth 3255 Drill Collars Run 29 Vis 44
 Bottom Packer Depth 3240 Wt. Pipe Run 0 WL 8.8
 Total Depth 3340 Chlorides 800 ppm System LCM 4

Blow Description FF-Weak Blow Built To 1 1/8 IN
IS-Dead No Blow Back
FF-Weak Surface Blow Built 1/8 IN
IS-Dead No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>USDCM</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 30 BHT 100 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1583 Test 1150 T-On Location 00:58
 (B) First Initial Flow 30 Jars 250 T-Started 1:18
 (C) First Final Flow 35 Safety Joint 75 T-Open 3:18
 (D) Initial Shut-In 576 Circ Sub _____ T-Pulled 6:33
 (E) Second Initial Flow 45 Hourly Standby _____ T-Out 8:12
 (F) Second Final Flow 40 Mileage 226.30 Comments _____
 (G) Final Shut-In 524 Sampler _____ Had 8 feet of fill in hole
 (H) Final Hydrostatic 1557 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1501.30
 Accessibility _____ MP/DST Disc't _____

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 40
 Sub Total 1501.30

Approved By _____ Our Representative Jeff Brown

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.

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

November 02, 2012

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

Re: ACO1
API 15-147-20685-00-00
Hanke 2
NE/4 Sec.22-03S-19W
Phillips County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Jason Bach