



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1220259  
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: \_\_\_\_\_

1220259

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Bach, Jason dba Bach Oil Production
Well Name	Pete's Pond 2
Doc ID	1220259

Tops

Name	Top	Datum
Stone Corral	1714	+371
Base Stone Corral	1738	+347
Topeka	3070	-985
Heebner	3275	-1190
Toronto	3304	-1219
Lansing	3320	-1235
Muncie	3429	-1344
Stark	3496	-1411
LTD	3542	-1457





# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 143044  
Invoice Date: May 5, 2014  
Page: 1

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

<b>Bill To:</b>
Bach Oil Production 82 W. 500 Ln. Phillipsburg, KS 67661

Customer ID	Field Ticket #	Payment Terms	
Bach	55235	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Russell	May 5, 2014	6/4/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Pete's Pond #2	17.90	3,132.50
175.00	CEMENT MATERIALS	Class A Common	0.24	79.20
330.00	CEMENT MATERIALS	Gel	0.80	396.00
495.00	CEMENT MATERIALS	Chloride	2.48	434.00
175.00	CEMENT SERVICE	Cubic Feet Charge	2.60	1,072.50
412.50	CEMENT SERVICE	Ton Mileage Charge	1,512.25	1,512.25
1.00	CEMENT SERVICE	Surface	4.40	220.00
50.00	CEMENT SERVICE	Light Vehicle Mileage	7.70	385.00
50.00	CEMENT SERVICE	Heavy Vehicle Mileage		
1.00	CEMENT SUPERVISOR	Robert Yakubovich		
1.00	EQUIPMENT OPERATOR	Nathan Donner		
1.00	EQUIPMENT OPERATOR	Kevin Rupp		

Subtotal	7,231.45
Sales Tax	239.91
Total Invoice Amount	7,471.36
Payment/Credit Applied	
<b>TOTAL</b>	<b>7,471.36</b>

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

\$ 1,735.54

ONLY IF PAID ON OR BEFORE  
May 30, 2014

# ALLIED OIL & GAS SERVICES, LLC 055235

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Russell KS

DATE <u>5-5-14</u>	SEC. <u>14</u>	TWP. <u>1</u>	RANGE <u>19</u>	CALLED OUT	ON LOCATION <u>700 P.M.</u>	JOB START <u>9:30 P.M.</u>	JOB FINISH <u>10:00 P.M.</u>
LEASE <u>Pete &amp; Ronal</u>		WELL# <u>2</u>		LOCATION <u>Phillipsburg KS Nto 383</u>		COUNTY <u>Phillips</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)		<u>5W 2 1/2 S 1/2 W 12 into</u>					

CONTRACTOR Murfin 24 OWNER \_\_\_\_\_

TYPE OF JOB surface CEMENT AMOUNT ORDERED 175 com 375 cc 27 gel

HOLE SIZE <u>12 7/8</u>	T.D. <u>220</u>
CASING SIZE <u>9 5/8 23"</u>	DEPTH <u>220</u>
TUBING SIZE _____	DEPTH _____
DRILL PIPE _____	DEPTH _____
TOOL _____	DEPTH _____
PRES. MAX _____	MINIMUM _____
MEAS. LINE _____	SHOE JOINT <u>15</u>
CEMENT LEFT IN CSG. <u>15</u>	
PERFS. _____	
DISPLACEMENT <u>13 bbl</u>	

**EQUIPMENT**

PUMP TRUCK # <u>407</u> CEMENTER <u>Robert Y</u>	COMMON <u>175</u> @ <u>17.90</u> <u>3132.50</u>
BULK TRUCK # <u>473</u> HELPER <u>Nathan D</u>	POZMIX @ _____
BULK TRUCK # _____ DRIVER <u>Kevin R</u>	GEL <u>330<sup>cc</sup></u> @ <u>0.24</u> <u>79.20</u>
BULK TRUCK # _____ DRIVER _____	CHLORIDE <u>495<sup>cc</sup></u> @ <u>0.80</u> <u>396.00</u>
	ASC @ _____
	<u>Material</u> @ _____ <u>3609.70</u>
	<u>Wires</u> @ <u>865.84</u>
	_____ @ _____
	_____ @ _____
	_____ @ _____
	_____ @ _____
	HANDLING <u>175 sks</u> @ <u>2.48</u> <u>434.00</u>
	MILEAGE <u>412.5 +/m</u> @ <u>2.60</u> <u>1072.50</u>
	<b>TOTAL</b> <u>5119.20</u>

REMARKS:

see log

Cement did circulate to surface  
Thank you!!!

CHARGE TO: Bach Oil Production

STREET \_\_\_\_\_

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

**SERVICE**

DEPTH OF JOB <u>220</u>	
PUMP TRUCK CHARGE <u>1512.25</u>	
EXTRA FOOTAGE @ _____	
MILEAGE <u>50 LV-MI</u> @ <u>4.40</u> <u>220.00</u>	
MANIFOLD @ _____	
<u>50 HVMI</u> @ <u>7.70</u> <u>385.00</u>	
	<u>3623.75</u>
<u>Allow 869.70</u>	<b>TOTAL</b> <u>2117.25</u>

**PLUG & FLOAT EQUIPMENT**

_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
<b>TOTAL</b> _____	

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

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES 7231.95

DISCOUNT 1735.54 24% IF PAID IN 30 DAYS

net 5495.91



# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 143059  
Invoice Date: May 10, 2014  
Page: 1

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

<b>Bill To:</b>
Bach Oil Production 82 W. 500 Ln. Phillipsburg, KS 67661

Customer ID	Field Ticket #	Payment Terms	
Bach	55261	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-03	Russell	May 10, 2014	6/9/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Pete's Pond #2	0.24	182.40
760.00	CEMENT MATERIALS	Gel	14.93	3,284.60
220.00	CEMENT MATERIALS	60/40 Blend	2.48	545.60
220.00	CEMENT SERVICE	Cubic Feet Charge	2.60	1,235.00
475.00	CEMENT SERVICE	Ton Mileage Charge	2,249.84	2,249.84
1.00	CEMENT SERVICE	Plug to Abandon	7.70	770.00
100.00	CEMENT SERVICE	Heavy Vehicle Mileage	4.40	220.00
50.00	CEMENT SERVICE	Light Vehicle Mileage	110.00	110.00
1.00	EQUIPMENT SALES	8-5/8 Wooden Plug		
1.00	CEMENT SUPERVISOR	Tony Pfannenstiel		
1.00	OPERATOR ASSISTANT	Danny Sinner		
1.00	OPERATOR ASSISTANT	Jesse Cozart		

Subtotal	8,597.44
Sales Tax	571.73
Total Invoice Amount	9,169.17
Payment/Credit Applied	
<b>TOTAL</b>	<b>9,169.17</b>

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

\$ 2,149.36

ONLY IF PAID ON OR BEFORE

Jun 4, 2014

# ALLIED OIL & GAS SERVICES, LLC 55261

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Russell

DATE <u>5.10.14</u>	SEC <u>74</u>	TWP. <u>1</u>	RANGE <u>19</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30</u>	JOB FINISH <u>12:00</u>
LEASE <u>Petes Pond</u>	WELL # <u>2</u>	LOCATION <u>Phillipsburg KS</u>			COUNTY <u>Phillips</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		<u>n to 383 Jct W 5 mls 2 1/2 S W n into</u>					

CONTRACTOR <u>Murfin #24</u>	OWNER
TYPE OF JOB <u>P7A</u>	CEMENT
HOLE SIZE <u>7 7/8</u>	AMOUNT ORDERED <u>220sk</u>
CASING SIZE	<u>60/40 + 47.34</u>
TUBING SIZE	
DRILL PIPE <u>4 1/2</u>	
TOOL	
PRES. MAX	
MEAS. LINE	
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT	

**EQUIPMENT**

PUMP TRUCK	CEMENTER <u>Anthony Pannorski</u>
# <u>417</u>	HELPER <u>Danny S.</u>
BULK TRUCK	
# <u>473</u>	DRIVER <u>Jesse C.</u>
BULK TRUCK	
#	DRIVER

COMMON	@	
POZMIX	@	
GEL <u>760lb</u>	@ .24	\$182.40
CHLORIDE	@	
ASC	@	
<u>220sk 60/40 +</u>	@ 14.73	\$3,284.60
<u>material</u>	@	3462.00
<u>Disc</u>	@	866.75
HANDLING <u>220sk P7A</u>	@ 2.48	\$545.60
MILEAGE <u>475 71m</u>	@ 2.60	\$1,235.00
		TOTAL <u>\$5,247.60</u>

REMARKS:  
See Casing log for huff

**SERVICE**

DEPTH OF JOB	<u>2725'</u>	
PUMP TRUCK CHARGE	<u>\$2,249.84</u>	
EXTRA FOOTAGE	@	
MILEAGE <u>heavy 100</u>	@ 7.7 <u>\$770.00</u>	
MANIFOLD <u>light 50</u>	@ 4.4 <u>\$220.00</u>	
		5020.44
<u>Disc 1255.11</u>	TOTAL <u>\$3239.84</u>	

CHARGE TO: Back Dirt Oil

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP 67665

**PLUG & FLOAT EQUIPMENT**

<u>1x 8 1/8 Wobler Plug</u>	@ -	\$110.00
		Disc 27.50
		TOTAL \$ 110.00

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

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \$8,597.44

DISCOUNT \$2,149.36 (25%) IF PAID IN 30 DAYS

Net 6448.08



# GEOLOGIST'S REPORT

## DRILLING TIME AND SAMPLE LOG

**BACH OIL PRODUCTION**

**WELL: PETE' S POND #2**

**LOC.: 780' FSL & 2634' FEL**  
**SEC. 14-1-19W**  
**PHILLIPS COUNTY, KANSAS**  
**API: 15-147-20740-00-00**

**DRILLING CONTR.: MURFIN RIG #24**  
**SPUD: 05-05-14 COMP: 05-09-14**  
**MUD UP: 2782' TYPE MUD: CHEM.**  
**DRILL TIME: 2900 to' RTD**  
**RTD: 3540' LTD: 3542'**  
**SAMPLES SAVED: 2900'-RTD**  
**GEOLOGIST: ROBERT J. PETERSEN**

### ELEVATION

KB: 2085  
 GL: 2080  
 LOG MEASURED  
 FROM: KB

### SURFACE CASING

8 5/8" Set @ 220'  
 W/175 SX 3% CC 2%gel

### PRODUCTION CASING

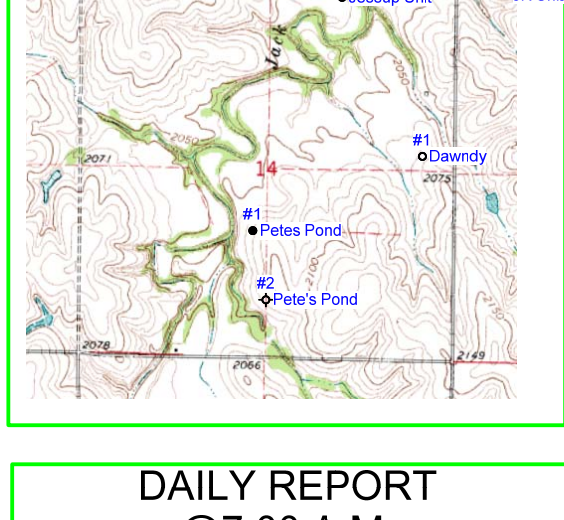
D&A

### WELL LOG SURVEYS

RAG

### ELECTRIC LOG TOPS

FORMATION	DEPTH	DATUM	POS.
Stone Corral	1714	+371	+5
Base Stone Corral	1738	+347	+2
Topeka	3070	-985	+1
Heebner	3275	-1190	+5
Toronto	3304	-1219	+1
Lansing	3320	-1235	+2
Muncie	3429	-1344	+4
Stark	3496	-1411	+2
LTD	3542	-1457	-



### REFERENCE WELL:

Bach Oil Production  
 Pete's Pond #1  
 NE SE NE SW  
 1750' FSL & 2416' FWL  
 14-1-19W

### DAILY REPORT

@7:00 A.M.

05-05-12 MIRU/SPUD

05-06-14 325'

05-07-14 2400'

05-08-14 3250'

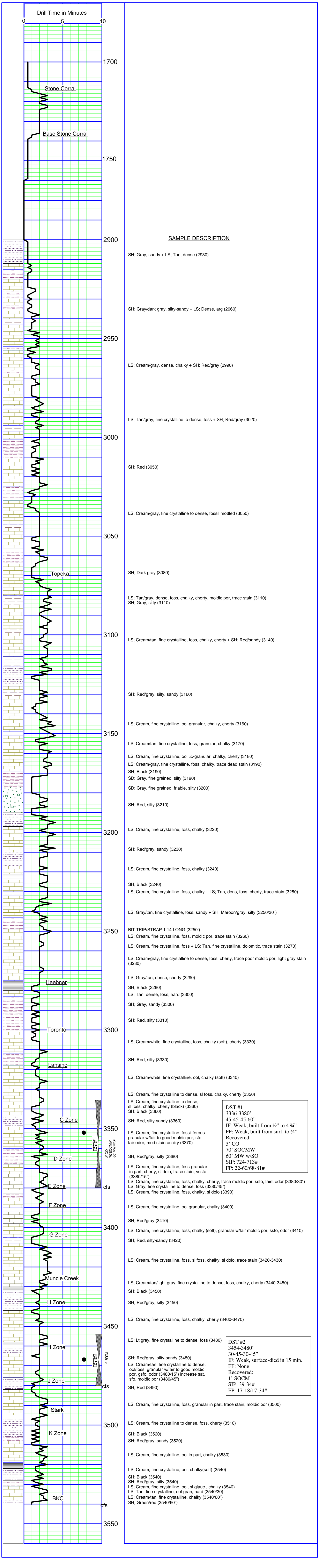
05-09-14 3450'

### REMARKS AND RECOMMENDATIONS

Based upon the DST results this well was plugged and abandoned by the operator.

Respectfully submitted,

*Robert J. Petersen*  
 Robert J. Petersen



### SAMPLE DESCRIPTION

SH; Gray, sandy + LS; Tan, dense (2930)

SH; Gray/dark gray, silty-sandy + LS; Dense, arg (2960)

LS; Cream/gray, dense, chalky + SH; Red/gray (2990)

LS; Tan/gray, fine crystalline to dense, foss + SH; Red/gray (3020)

SH; Red (3050)

LS; Cream/gray, fine crystalline to dense, fossil mottled (3050)

SH; Dark gray (3080)

LS; Tan/gray, dense, foss, chalky, cherty, moldic por, trace stain (3110)  
 SH; Gray, silty (3110)

LS; Cream/tan, fine crystalline, foss, chalky, cherty + SH; Red/sandy (3140)

SH; Red/gray, silty, sandy (3160)

LS; Cream, fine crystalline, ool-granular, chalky, cherty (3160)

LS; Cream/tan, fine crystalline, foss, granular, chalky (3170)

LS; Cream, fine crystalline, oolitic-granular, chalky, cherty (3180)

LS; Cream/gray, fine crystalline, foss, chalky, trace dead stain (3190)

SH; Black (3190)

SD; Gray, fine grained, silty (3190)

SD; Gray, fine grained, friable, silty (3200)

SH; Red, silty (3210)

LS; Cream, fine crystalline, foss, chalky (3220)

SH; Red/gray, sandy (3230)

LS; Cream, fine crystalline, foss, chalky (3240)

SH; Black (3240)

LS; Cream, fine crystalline, foss, chalky + LS; Tan, dens, foss, cherty, trace stain (3250)

LS; Gray/tan, fine crystalline, foss, sandy + SH; Maroon/gray, silty (3250/30')

BIT TRIP/STRAP 1.14 LONG (3250')

LS; Cream, fine crystalline, foss, moldic por, trace stain (3260)

LS; Cream, fine crystalline, foss + LS; Tan, fine crystalline, dolomitic, trace stain (3270)

LS; Cream/gray, fine crystalline to dense, foss, cherty, trace poor moldic por, light gray stain (3280)

LS; Gray/tan, dense, cherty (3290)

SH; Black (3290)

LS; Tan, dense, foss, hard (3300)

SH; Gray, sandy (3300)

SH; Red, silty (3310)

LS; Cream/white, fine crystalline, foss, chalky (soft), cherty (3330)

SH; Red, silty (3330)

LS; Cream/white, fine crystalline, ool, chalky (soft) (3340)

LS; Cream, fine crystalline to dense, sil foss, chalky, cherty (3350)

LS; Cream, fine crystalline to dense, sil foss, chalky, cherty (black) (3360)

SH; Black (3360)

SH; Red, silty-sandy (3360)

LS; Cream, fine crystalline, fossiliferous granular w/fair to good moldic por, sfo, fair odor, med stain on dry (3370)

SH; Red/gray, silty (3380)

LS; Cream, fine crystalline, foss-granular in part, cherty, sil dolo, trace stain, vssfo (3380/15')

LS; Cream, fine crystalline, foss, chalky, cherty, trace moldic por, sso, faint odor (3380/30')

LS; Tan, fine crystalline, ool-gran, hard (3540/30)

LS; Cream, fine crystalline, foss, chalky, sil dolo (3390)

LS; Cream, fine crystalline, ool granular, chalky (3400)

SH; Red/gray (3410)

LS; Cream, fine crystalline, foss, chalky (soft), granular w/fair moldic por, sso, odor (3410)

SH; Red, silty-sandy (3420)

LS; Cream, fine crystalline, foss, sil foss, chalky, sil dolo, trace stain (3420-3430)

LS; Cream/tan/light gray, fine crystalline to dense, foss, chalky, cherty (3440-3450)

SH; Black (3450)

SH; Red/gray, silty (3450)

LS; Cream, fine crystalline, foss, chalky, cherty (3460-3470)

LS; Lt gray, fine crystalline to dense, foss (3480)

SH; Red/gray, silty-sandy (3480)

LS; Cream/tan, fine crystalline to dense, ool/foss, granular w/fair to good moldic por, gsf, odor (3480/15") increase sat, sfo, moldic por (3480/45')

SH; Red (3490)

LS; Cream, fine crystalline, foss, granular in part, trace stain, moldic por (3500)

LS; Cream, fine crystalline to dense, foss, cherty (3510)

SH; Black (3520)

SH; Red/gray, sandy (3520)

LS; Cream, fine crystalline, ool in part, chalky (3530)

LS; Cream, fine crystalline, ool, chalky(soft) (3540)

SH; Black (3540)

SH; Red/gray, silty (3540)

LS; Cream, fine crystalline, ool, sil glauc, chalky (3540)

LS; Tan, fine crystalline, ool-gran, hard (3540/30)

LS; Cream/tan, fine crystalline, chalky (3540/60')

SH; Green/red (3540/60')

**DST #1**  
 3336-3380'  
 45-45-45-60"  
 IF: Weak, built from 1/2" to 4 3/4"  
 FF: Weak, built from surf. to 3/4"  
 Recovered:  
 3' CO  
 70' SOCMW  
 60' MW w/SO  
 SIP: 724-713#  
 FP: 22-60/68-81#

**DST #2**  
 3454-3480'  
 30-45-30-45"  
 IF: Weak, surface-died in 15 min.  
 FF: None  
 Recovered:  
 1' SOCM  
 SIP: 39-34#  
 FP: 17-18/17-34#



## DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production**

PO Box 723  
Alma NE 68920-0723

ATTN: Bob Petersen

### **Pete's Pond #2**

#### **14-1s-19w Phillips,KS**

Start Date: 2014.05.08 @ 19:00:47

End Date: 2014.05.09 @ 01:17:11

Job Ticket #: 55339                      DST #: 1

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

Printed: 2014.05.13 @ 10:58:45



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Bach Oil Production

**14-1s-19w Phillips,KS**

PO Box 723  
Alma NE 68920-0723

**Pete's Pond #2**

Job Ticket: 55339

**DST#: 1**

ATTN: Bob Petersen

Test Start: 2014.05.08 @ 19:00:47

## GENERAL INFORMATION:

Formation: **LKC C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:22:12

Time Test Ended: 01:17:11

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 70

**Interval: 3336.00 ft (KB) To 3380.00 ft (KB) (TVD)**

Reference Elevations: 2085.00 ft (KB)

Total Depth: 3380.00 ft (KB) (TVD)

2080.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8369**

**Inside**

Press@RunDepth: 81.41 psig @ 3344.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.08

End Date:

2014.05.09

Last Calib.:

2014.05.09

Start Time:

19:00:47

End Time:

01:17:11

Time On Btm:

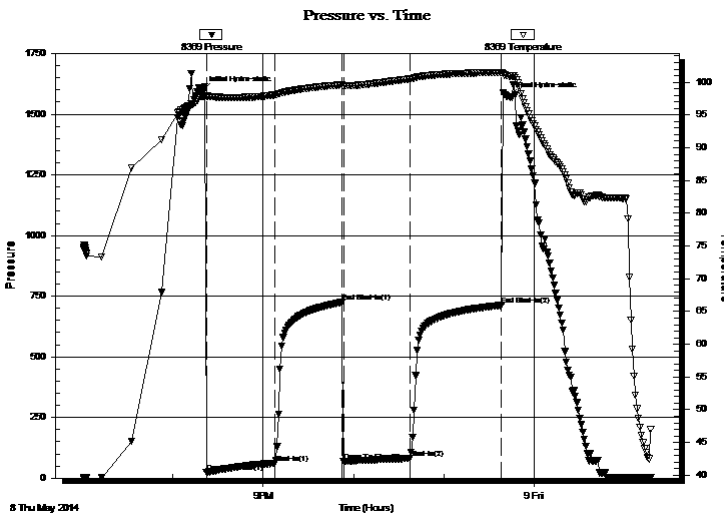
2014.05.08 @ 20:19:42

Time Off Btm:

2014.05.08 @ 23:43:11

**TEST COMMENT:** 45-IFP-w k to a fr bl 1/2" to 4 3/4" bl  
45-ISIP-no bl  
45-FFP-w k bl thru-out surface to 3/4" bl  
60-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1596.26	97.86	Initial Hydro-static
3	22.66	97.87	Open To Flow (1)
48	60.28	98.06	Shut-In(1)
93	724.35	99.60	End Shut-In(1)
94	68.87	99.44	Open To Flow (2)
138	81.41	100.49	Shut-In(2)
199	713.03	101.50	End Shut-In(2)
204	1571.62	100.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	MW 10%M90%W w/show of oil	0.30
70.00	SOCMW 1%O10%M89%W	0.71
3.00	CO	0.04

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Bach Oil Production

**14-1s-19w Phillips,KS**

PO Box 723  
Alma NE 68920-0723

**Pete's Pond #2**

Job Ticket: 55339

**DST#: 1**

ATTN: Bob Petersen

Test Start: 2014.05.08 @ 19:00:47

## Tool Information

Drill Pipe:	Length: 3237.00 ft	Diameter: 3.80 inches	Volume: 45.41 bbl	Tool Weight: 2200.00 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: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 45.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3336.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	73.00 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			3308.00	
Shut In Tool	5.00			3313.00	
Hydraulic tool	5.00			3318.00	
Jars	5.00			3323.00	
Safety Joint	3.00			3326.00	
Packer	5.00			3331.00	29.00 Bottom Of Top Packer
Packer	5.00			3336.00	
Stubb	1.00			3337.00	
Perforations	7.00			3344.00	
Recorder	0.00	8369	Inside	3344.00	
Recorder	0.00	8700	Outside	3344.00	
Blank Spacing	33.00			3377.00	
Bullnose	3.00			3380.00	44.00 Bottom Packers & Anchor

**Total Tool Length: 73.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Bach Oil Production

**14-1s-19w Phillips,KS**

PO Box 723  
Alma NE 68920-0723

**Pete's Pond #2**

Job Ticket: 55339

**DST#: 1**

ATTN: Bob Petersen

Test Start: 2014.05.08 @ 19:00:47

### 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:

41000 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 4.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 300.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	MW 10%M90%W w/show of oil	0.295
70.00	SOCMW 1%O10%M89%W	0.709
3.00	CO	0.042

Total Length: 133.00 ft      Total Volume: 1.046 bbl

Num Fluid Samples: 0

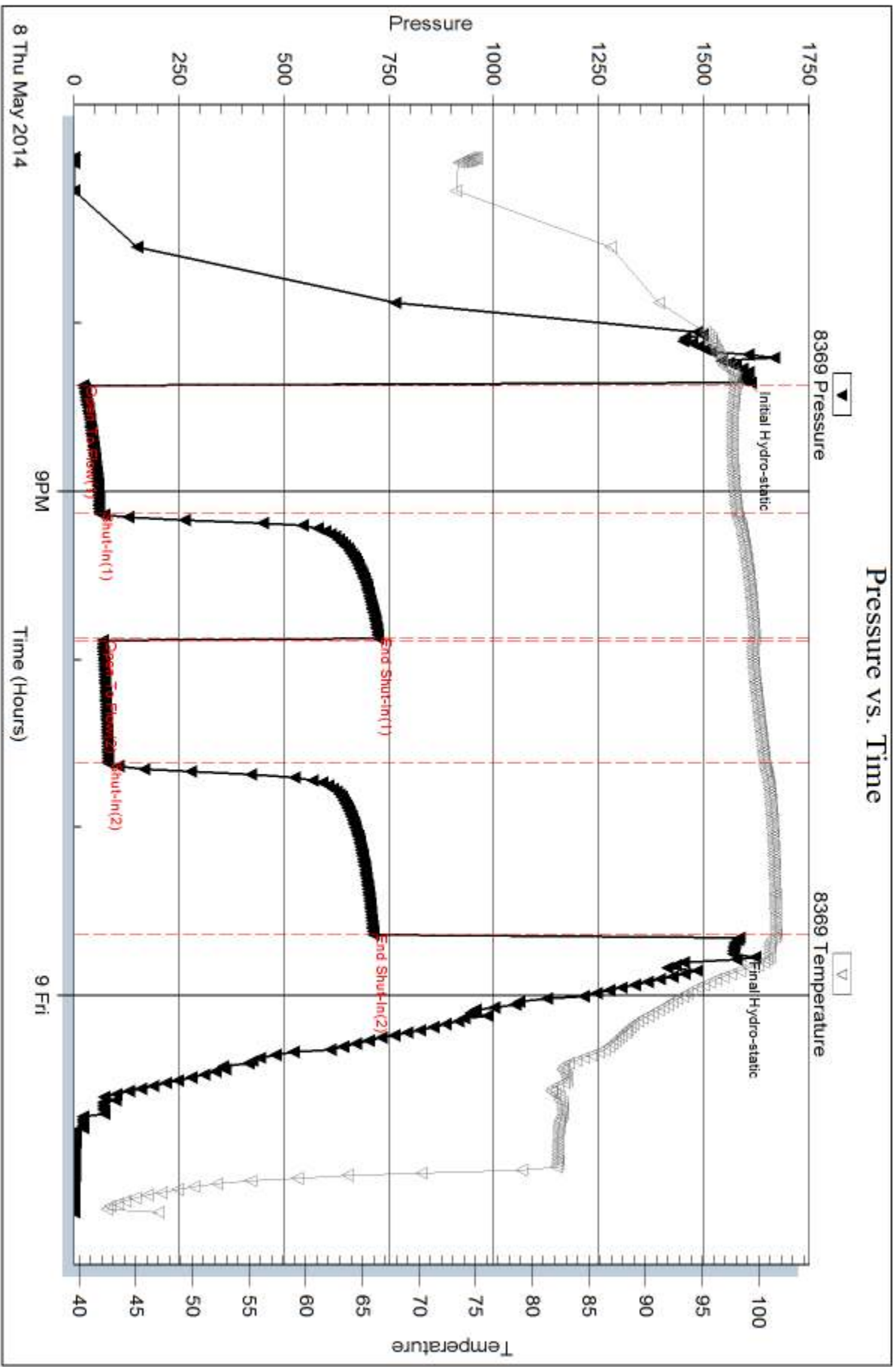
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .2 @ 65F





## DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production**

PO Box 723  
Alma NE 68920-0723

ATTN: Bob Petersen

### **Pete's Pond #2**

#### **14-1s-19w Phillips,KS**

Start Date: 2014.05.09 @ 08:45:39

End Date: 2014.05.09 @ 14:32:39

Job Ticket #: 55340                      DST #: 2

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

Printed: 2014.05.13 @ 10:57:56



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Bach Oil Production

**14-1s-19w Phillips,KS**

PO Box 723  
Alma NE 68920-0723

**Pete's Pond #2**

Job Ticket: 55340

**DST#: 2**

ATTN: Bob Petersen

Test Start: 2014.05.09 @ 08:45:39

## GENERAL INFORMATION:

Formation: **LKC "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:41:09

Time Test Ended: 14:32:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 70

**Interval: 3454.00 ft (KB) To 3480.00 ft (KB) (TVD)**

Reference Elevations: 2085.00 ft (KB)

Total Depth: 3480.00 ft (KB) (TVD)

2080.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8369 Inside**

Press@RunDepth: 17.59 psig @ 3455.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.09

End Date:

2014.05.09

Last Calib.:

2014.05.09

Start Time: 08:45:44

End Time:

14:32:38

Time On Btm:

2014.05.09 @ 10:38:39

Time Off Btm:

2014.05.09 @ 13:17:09

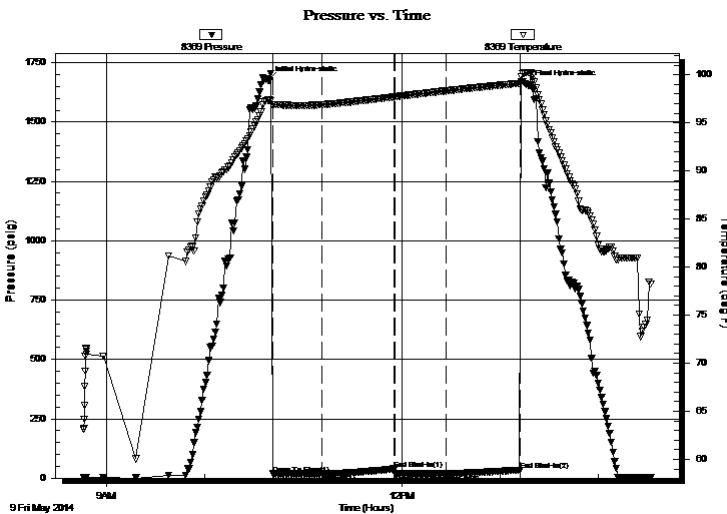
TEST COMMENT: 30-IFP-surface bl , died in 15 min

45-ISIP-no bl

30-FFP-no bl

45-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1676.66	97.36	Initial Hydro-static
3	17.67	96.84	Open To Flow (1)
33	18.23	96.89	Shut-In(1)
77	39.02	97.70	End Shut-In(1)
78	17.65	97.70	Open To Flow (2)
109	17.59	98.32	Shut-In(2)
154	34.32	99.11	End Shut-In(2)
159	1656.48	100.24	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	SOCM 3%O97%M	0.00

## Gas Rates

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

\* Recovery from multiple tests







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Bach Oil Production

**14-1s-19w Phillips,KS**

PO Box 723  
Alma NE 68920-0723

**Pete's Pond #2**

Job Ticket: 55340

**DST#: 2**

ATTN: Bob Petersen

Test Start: 2014.05.09 @ 08:45:39

## Tool Information

Drill Pipe:	Length: 3355.00 ft	Diameter: 3.80 inches	Volume: 47.06 bbl	Tool Weight:	2200.00 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: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 47.50 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3454.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	55.00 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			3426.00	
Shut In Tool	5.00			3431.00	
Hydraulic tool	5.00			3436.00	
Jars	5.00			3441.00	
Safety Joint	3.00			3444.00	
Packer	5.00			3449.00	29.00 Bottom Of Top Packer
Packer	5.00			3454.00	
Stubb	1.00			3455.00	
Recorder	0.00	8369	Inside	3455.00	
Recorder	0.00	8700	Outside	3455.00	
Perforations	22.00			3477.00	
Bullnose	3.00			3480.00	26.00 Bottom Packers & Anchor

**Total Tool Length: 55.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Bach Oil Production

**14-1s-19w Phillips,KS**

PO Box 723  
Alma NE 68920-0723

**Pete's Pond #2**

Job Ticket: 55340

**DST#: 2**

ATTN: Bob Petersen

Test Start: 2014.05.09 @ 08:45:39

## 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: 4.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 300.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	SOCM 3% O97%M	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

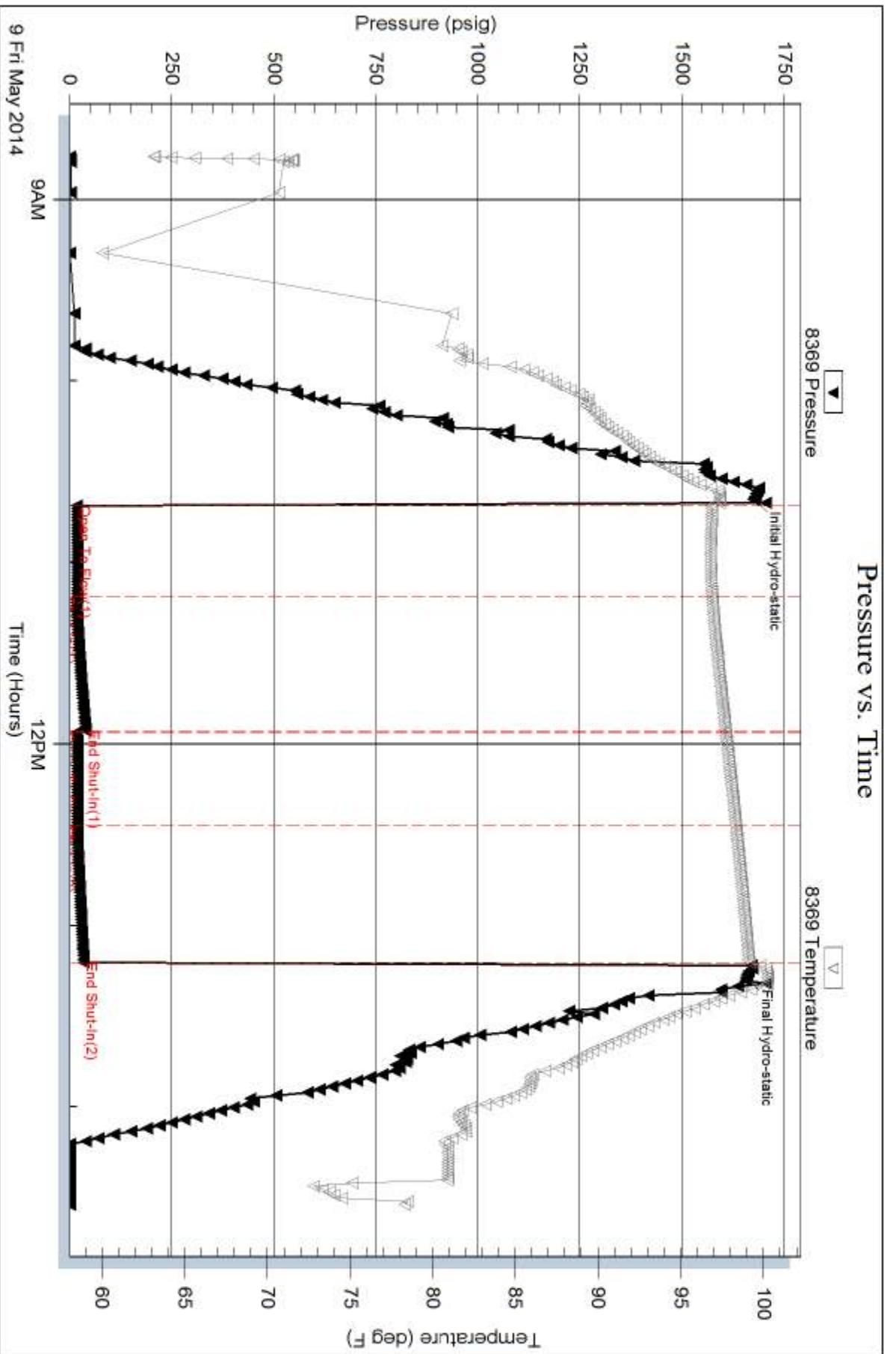
Serial #: 8369

Inside

Bach Oil Production

Pete's Pond #2

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 55340

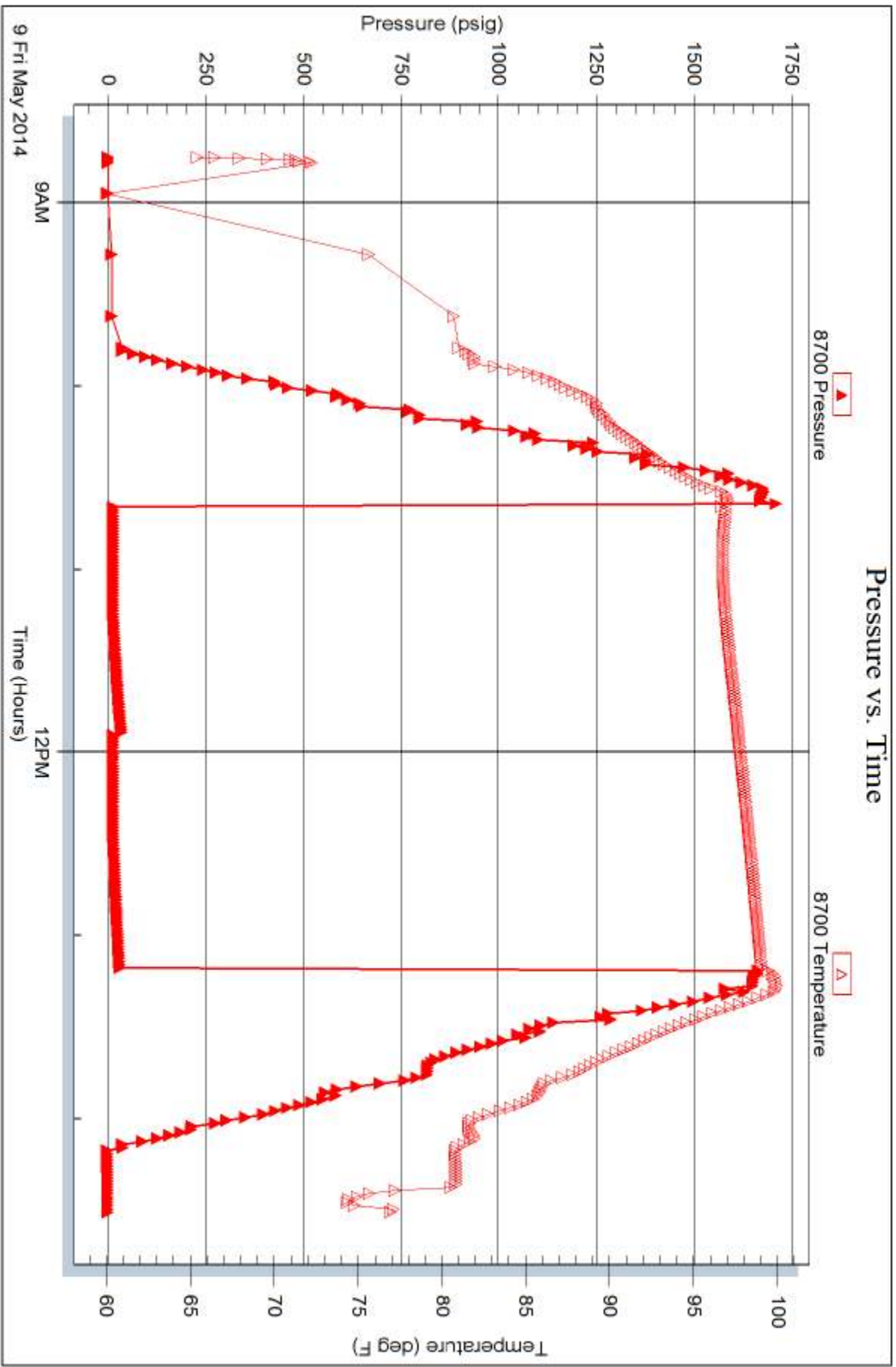
Printed: 2014.05.13 @ 10:57:57

Serial #: 8700

Outside Bach Oil Production

Pete's Pond #2

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 55340

Printed: 2014.05.13 @ 10:57:57



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55339

Well Name & No. Pete's Pond #2 Test No. 1 Date 5-8-14  
 Company Back Oil Production Elevation 2085 KB 2080 GL  
 Address P O Box 723 ALMA, NE. 68920-0723  
 Co. Rep / Geo. Bob Petersen Rig Murphy rig 24  
 Location: Sec. 14 Twp. 1<sup>s</sup> Rge. 19<sup>w</sup> Co. Phillips State Ks

Interval Tested 3336-3380 Zone Tested LKC C-0  
 Anchor Length 44 Drill Pipe Run 3237 Mud Wt. 8.9  
 Top Packer Depth 3331 Drill Collars Run 90 Vis 67  
 Bottom Packer Depth 3336 Wt. Pipe Run - WL 4.8  
 Total Depth 3380 Chlorides 300 ppm System LCM 1#

Blow Description TFP - WEAK TO A FAIR BLOW 1/2" TO 4 3/4" BLOW  
ISTIP - NO BLOW  
FFP - WEAK BLOW THRU-OUT, SURFACE TO 3/4" BLOW  
FSTIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
3	C0				
70	SOC MW		1	89	10
60	MW w/show of oil			90	10

Rec Total 130 BHT 101 Gravity - API RW .2 @ 65 ° F Chlorides 4100 ppm

(A) Initial Hydrostatic <u>1596</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1840</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1900</u>
(C) First Final Flow <u>60</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2020</u>
(D) Initial Shut-In <u>724</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2335</u>
(E) Second Initial Flow <u>68</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0117</u>
(F) Second Final Flow <u>81</u>	<input checked="" type="checkbox"/> Mileage <u>180 RT</u> 130rt 201.50	Comments <u>MOTEL STAY</u>
(G) Final Shut-In <u>713</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1571</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

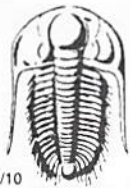
Initial Open 45  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 60

Shale Packer  
 Ruined Packer  
 Extra Packer  
 Extra Copies  
 Extra Recorder  
 Day Standby  
 Accessibility

Sub Total 1676.50  
 Total 1676.50  
 MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative RAY SCHWAGER HAAR 409

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. 55340

Well Name & No. Pete's Pond #2 Test No. 2 Date 5-9-14  
 Company Bach Oil Production Elevation 2085 KB 2080 GL  
 Address PO Box 723 Alma, NE 68920-0723  
 Co. Rep / Geo. Bob Peterson Rig Murfin rig 24  
 Location: Sec. 14 Twp. 1<sup>r</sup> Rge. 19<sup>w</sup> Co. Phillips State Ks

Interval Tested 3454-3480 Zone Tested LKC I  
 Anchor Length 26 Drill Pipe Run 3355 Mud Wt. 8.9  
 Top Packer Depth 3449 Drill Collars Run 90 Vis 61  
 Bottom Packer Depth 3454 Wt. Pipe Run - WL 4.8  
 Total Depth 3480 Chlorides 300 ppm System LCM 1#

Blow Description IFP - SURFACE Blow, died in 15min  
ISIP - NO Blow  
FFP - NO Blow  
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>SOCM</u>	<u>3</u>		<u>99</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 1 BHT 99 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>1676</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0740</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0845</u>
(C) First Final Flow <u>18</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1040</u>
(D) Initial Shut-In <u>39</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1310</u>
(E) Second Initial Flow <u>17</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1432</u>
(F) Second Final Flow <u>17</u>	<input checked="" type="checkbox"/> Mileage <u>201.50</u>	Comments
(G) Final Shut-In <u>34</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1656</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1676.50</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1676.50</u>	

Approved By \_\_\_\_\_ Our Representative RAY SCHWANN THANK YOU

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.