

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1246945
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: _____

1246945

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
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Commingled <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Bach, Jason dba Bach Oil Production
Well Name	Knape 4
Doc ID	1246945

Tops

Name	Top	Datum
Stone Corral	1715	+401
Base Stone Corral	1735	+381
Topeka	3078	-962
Heebner	3275	-1159
Toronto	3304	-1188
Lansing	3319	-1203
Muncie	3432	-1316
Stark	3501	-1385



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 147329
Invoice Date: Nov 24, 2014
Page: 1

Federal Tax I.D.#: 20-8651475

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

Customer ID	Field Ticket #	Payment Terms	
Bach	55574	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Russell	Nov 24, 2014	12/24/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Knape #4		
175.00	CEMENT MATERIALS	Class A Common	17.90	3,132.50
329.00	CEMENT MATERIALS	Gel	0.50	164.50
494.00	CEMENT MATERIALS	Chloride	1.10	543.40
175.00	CEMENT SERVICE	Cubic Feet Charge	2.48	434.00
411.00	CEMENT SERVICE	Ton Mileage Charge	2.75	1,130.25
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
100.00	CEMENT SERVICE	Heavy Vehicle Mileage	7.70	770.00
1.00	CEMENT SUPERVISOR	Robert Yakubovich		
1.00	EQUIPMENT OPERATOR	Nathan Donner		
1.00	OPERATOR ASSISTANT	Steven Stelzer		

Subtotal	7,686.90
Sales Tax	255.39
Total Invoice Amount	7,942.29
Payment/Credit Applied	
TOTAL	7,942.29

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

\$ 1,921.72

ONLY IF PAID ON OR BEFORE
Dec 24, 2014

ALLIED OIL & GAS SERVICES, LLC 055574

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Russell KS

DATE 11-24-14	SEC 18	TWP. 1	RANGE 18	CALLED OUT	ON LOCATION	JOB START 10:00 AM	JOB FINISH 10:50 PM
LEASE Kappa	WELL# 4	LOCATION Phillipsburg KS 8N	PHILLIPS COUNTY	STATE KS			
OLD OR (NEW) (Circle one)		3W 3N 14W Ninto					

CONTRACTOR <u>Martini 24</u>	OWNER
TYPE OF JOB <u>Surface</u>	CEMENT
HOLE SIZE <u>12 1/4</u>	AMOUNT ORDERED <u>175 com 390cc 290 gal</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</u>	
EQUIPMENT	
PUMP TRUCK # <u>409</u> CEMENTER <u>Robert V</u> HELPER <u>Nathan D</u>	COMMON <u>175 @ 17.90 3132.50</u>
BULK TRUCK # <u>378</u> DRIVER <u>Steve S</u>	POZMIX @
BULK TRUCK # DRIVER	GEL <u>329 @ .50 164.50</u>
	CHLORIDE <u>474 @ 1.10 543.40</u>
	ASC @
	@
	@
	<u>Material @ 3840.40</u>
	<u>Disc @ 960.10</u>
	@
	@
	HANDLING <u>175 sks @ 2.48 434.00</u>
	MILEAGE <u>411 t/m @ 2.75 1130.25</u>
	TOTAL <u>5404.65</u>

REMARKS:
see log
plug down at 10:17
circulated 22 cnt to pit
Thank you!!!

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

SERVICE

DEPTH OF JOB	<u>220</u>
PUMP TRUCK CHARGE	<u>1512.25</u>
EXTRA FOOTAGE @	
MILEAGE <u>100 HV MI</u>	@ <u>7.70 770.00</u>
MANIFOLD @	
@	
@	
<u>Disc 960.62</u>	<u>3846.50</u>
TOTAL	<u>2282.25</u>

PLUG & FLOAT EQUIPMENT

@	
@	
@	
@	
@	
TOTAL	

SALES TAX (If Any) _____
TOTAL CHARGES 7686.90
DISCOUNT 1921.72 25% IF PAID IN 30 DAYS
net 5765.18

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 Maatth
SIGNATURE [Signature]



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 147332
Invoice Date: Nov 29, 2014
Page: 1

Federal Tax I.D.#: 20-8651475

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

Customer ID	Field Ticket #	Payment Terms	
Bach	55577	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-03	Russell	Nov 29, 2014	12/29/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Knape #4		
255.00	CEMENT MATERIALS	60/40/4% Gel Blend	18.92	4,824.60
65.00	CEMENT MATERIALS	Flo Seal	2.97	193.05
255.00	CEMENT SERVICE	Cubic Feet Charge	2.48	632.40
570.00	CEMENT SERVICE	Ton Mileage Charge	2.75	1,567.50
1.00	CEMENT SERVICE	Plug to Abandon	2,249.84	2,249.84
50.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	220.00
100.00	CEMENT SERVICE	Heavy Vehicle Mileage	7.70	770.00
1.00	EQUIPMENT SALES	8-5/8 Wooden Plug	110.00	110.00
1.00	CEMENT SUPERVISOR	Robert Yakubovich		
1.00	EQUIPMENT OPERATOR	Nathan Donner		
1.00	OPERATOR ASSISTANT	Tracy Jordan		

Subtotal	10,567.39
Sales Tax	340.99
Total Invoice Amount	10,908.38
Payment/Credit Applied	
TOTAL	10,908.38

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

\$ 2,641.84

ONLY IF PAID ON OR BEFORE

Dec 29, 2014

ALLIED OIL & GAS SERVICES, LLC 055577

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Russell KS

DATE <u>11-29-14</u>	SEC. <u>18</u>	TWP. <u>1</u>	RANGE <u>18</u>	CALLED OUT	ON LOCATION	JOB START <u>9:30 AM</u>	JOB FINISH <u>10:00 AM</u>
LEASE <u>Knappe</u>		WELL# <u>4</u>	LOCATION <u>Phillipsburg 8N3W4N</u>		COUNTY <u>Phillips</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>1/4 W Ninto</u>					

CONTRACTOR Murfin 25
 TYPE OF JOB P.T.A.
 HOLE SIZE 7 7/8 T.D. 3503
 CASING SIZE 8 7/8 DEPTH 220
 TUBING SIZE DEPTH
 DRILL PIPE 4 1/2 16.6 DEPTH 1730
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT

OWNER
 CEMENT AMOUNT ORDERED 2.55 60/40 49 gal
1/4 # 10
 COMMON @ _____
 POZMIX @ _____
 GEL @ _____
 CHLORIDE @ _____
 ASC @ _____
6/40 47 gal 2.55 @ 18.92 4824.60
fl-o-seal 65 @ 2.97 193.05
 @ _____
 @ _____
Material @ 5017.65
Aliso @ 1254.41
 @ _____
 @ _____
 HANDLING 2.55 @ 2.48 632.40
 MILEAGE 570 @ 2.75 1567.50
 TOTAL 7217.65

EQUIPMENT

PUMP TRUCK CEMENTER Robert Y
 # 409 HELPER Nathan D
 BULK TRUCK
 # 985 DRIVER Tracy J
 BULK TRUCK
 # DRIVER

REMARKS:

p1 50 sks @ 1730
p2 100 sks @ 1230
p3 50 sks @ 270
p4 10 sks @ 40
Rathole 30 sks
Mousehole 15 sks

Thank you!!!

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

SERVICE

DEPTH OF JOB 1730
 PUMP TRUCK CHARGE 2249.84
 EXTRA FOOTAGE @ _____
 MILEAGE 50 L.V.M.T @ 4.40 220.00
 MANIFOLD @ _____
100 HV.M.T @ 7.70 770.00
 @ _____
 @ _____
Aliso 1359.93 TOTAL 5439.74
3239.84

PLUG & FLOAT EQUIPMENT

8 7/8 Wooden plug @ 110.00-110.00
 @ _____
 @ _____
 @ _____
 @ _____
Aliso 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.

SALES TAX (If Any) _____
 TOTAL CHARGES 10567.39
 DISCOUNT 2641.84 25% IF PAID IN 30 DAYS
 net \$ 7925.55

PRINTED NAME _____
 SIGNATURE Donald Stueber

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

BACH OIL PRODUCTION

WELL: KNAPE #4

LOC.: 482' FSL & 2540' FWL
SEC. 18-1-18W
PHILLIPS COUNTY, KANSAS
API: 15-147-20749-00-00

DRILLING CONTR.: MURFIN RIG #24
SPUD: 11-24-14 COMP: 11-28-14
MUD UP: 2850' TYPE MUD: CHEM.
DRILL TIME: 2950 to' RTD
RTD: 3503' LTD: 3498'
SAMPLES SAVED: 2900'-RTD
GEOLOGIST: ROBERT J. PETERSEN

ELEVATION

KB: 2116
 GL: 2111
 LOG MEASURED
 FROM: KB

SURFACE CASING

20# 8 5/8 " Casing set @ 220' w/175 SX

PRODUCTION CASING

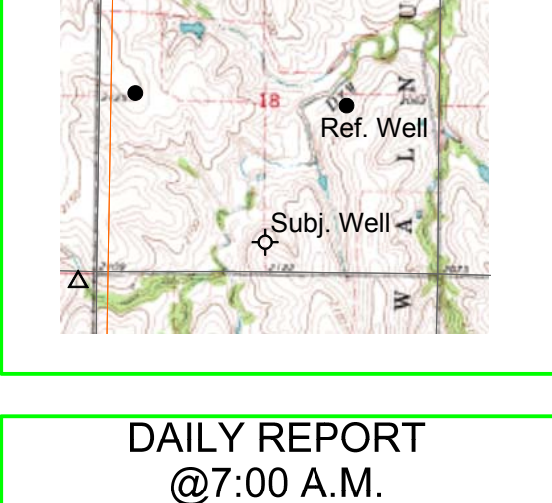
D&A

WELL LOG SURVEYS

CDL/DIL

ELECTRIC LOG TOPS

FORMATION	DEPTH	DATUM	POSITION
Stone Corral	1715	+401	+6
Base Stone Corral	1735	+381	+6
Topeka	3078	-962	-2
Heebner	3275	-1159	+8
Toronto	3304	-1188	+7
Lansing	3319	-1203	+11
Muncie	3432	-1316	+6
Stark	3501	-1385	+4



REFERENCE WELL:

Bach Oil Production
 Knape #1
 Location: T1S R18W, Sec. 18
 NE NE NW SE
 2570 North, 1420 West, from SE corner

REMARKS AND RECOMMENDATIONS

This well was plugged and abandoned by the operator.

Respectfully submitted,

Robert J. Petersen

Robert J. Petersen

DAILY REPORT @7:00 A.M.

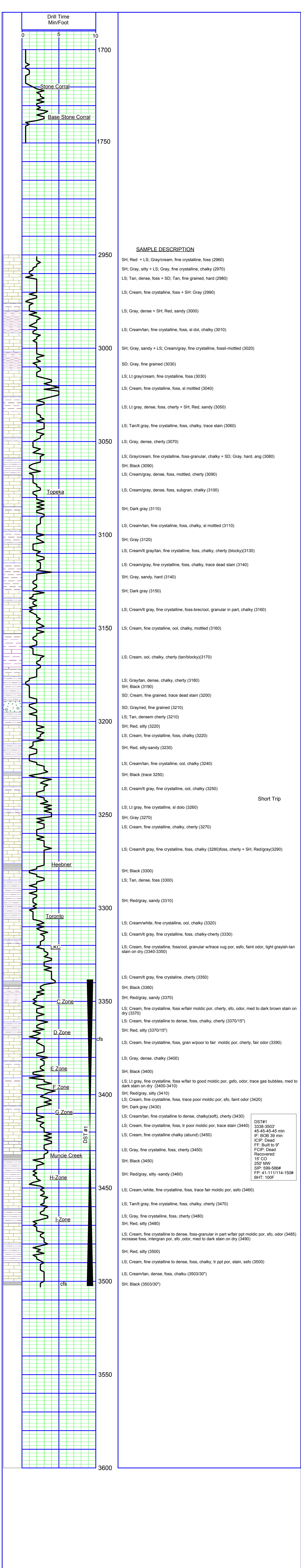
11-24-14 MIRU/SPUD

11-25-14 245'

11-26-14 2140'

11-27-14 3015'

11-28-14 350.'





DRILL STEM TEST REPORT

Prepared For: **Bach Oil Production**

PO Box 723
Alma, NE 68920

ATTN: Bob Peterson

Knape #4

18-1s-18w Phillips,KS

Start Date: 2014.11.28 @ 18:50:25

End Date: 2014.11.29 @ 02:35:55

Job Ticket #: 58415 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.12.03 @ 16:03:02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bach Oil Production

18-1s-18w Phillips,KS

PO Box 723
Alma, NE 68920

Knappe #4

Job Ticket: 58415

DST#: 1

ATTN: Bob Peterson

Test Start: 2014.11.28 @ 18:50:25

GENERAL INFORMATION:

Formation: **LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:14:55

Time Test Ended: 02:35:55

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 62

Interval: 3338.00 ft (KB) To 3503.00 ft (KB) (TVD)

Reference Elevations: 2116.00 ft (KB)

Total Depth: 3503.00 ft (KB) (TVD)

2111.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8655 Outside

Press@RunDepth: 150.24 psig @ 3339.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.28

End Date: 2014.11.29

Last Calib.: 2014.11.29

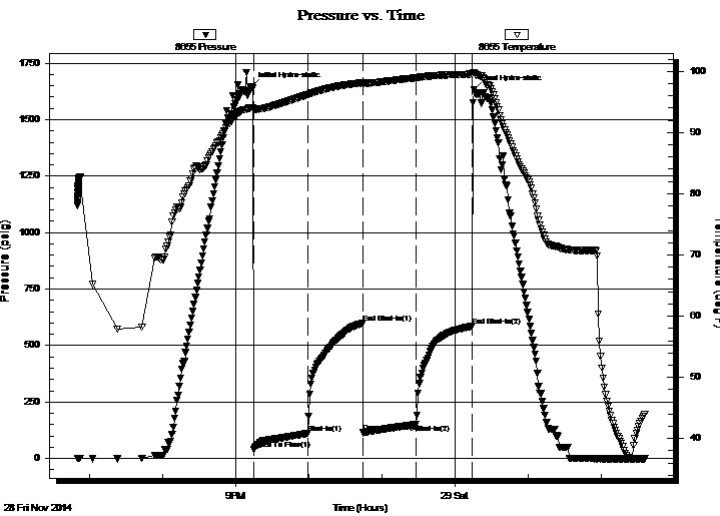
Start Time: 18:50:26

End Time: 02:35:55

Time On Btm: 2014.11.28 @ 21:12:55

Time Off Btm: 2014.11.29 @ 00:15:55

TEST COMMENT: 45- IF- BOB 39 mins
45- IS- No blow
45- FF- Slow ly built to 9"
45- FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1647.40	94.02	Initial Hydro-static
2	41.37	93.64	Open To Flow (1)
47	110.56	96.17	Shut-In(1)
92	599.21	98.14	End Shut-In(1)
92	114.05	97.99	Open To Flow (2)
136	150.24	98.94	Shut-In(2)
182	586.49	99.54	End Shut-In(2)
183	1632.83	99.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
250.00	MW, 40%M 60%W	2.39
15.00	CO	0.20

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bach Oil Production

18-1s-18w Phillips,KS

PO Box 723
Alma, NE 68920

Knappe #4

Job Ticket: 58415

DST#: 1

ATTN: Bob Peterson

Test Start: 2014.11.28 @ 18:50:25

GENERAL INFORMATION:

Formation: **LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:14:55

Time Test Ended: 02:35:55

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 62

Interval: 3338.00 ft (KB) To 3503.00 ft (KB) (TVD)

Reference Elevations: 2116.00 ft (KB)

Total Depth: 3503.00 ft (KB) (TVD)

2111.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8651

Inside

Press@RunDepth: psig @ 3339.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.28

End Date:

2014.11.29

Last Calib.:

2014.11.29

Start Time: 18:50:29

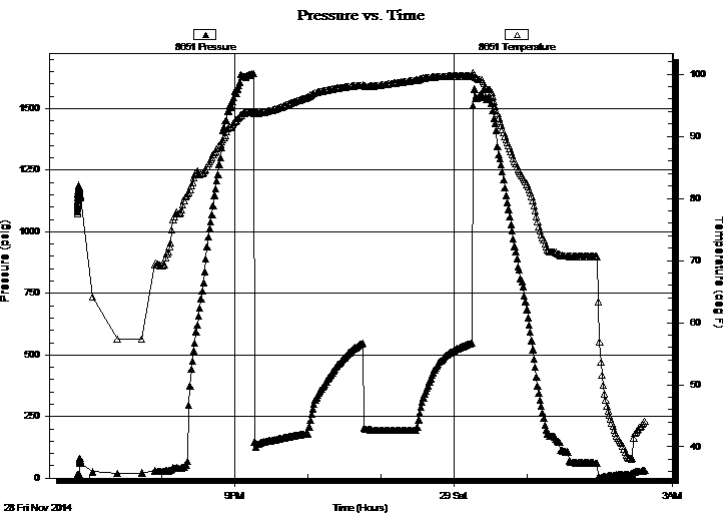
End Time:

02:37:28

Time On Btm:

Time Off Btm:

TEST COMMENT: 45- IF- BOB 39 mins
45- IS- No blow
45- FF- Slow ly built to 9"
45- FS- No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
250.00	MW, 40%M 60%W	2.39
15.00	CO	0.20

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bach Oil Production

18-1s-18w Phillips,KS

PO Box 723
Alma, NE 68920

Knape #4

Job Ticket: 58415

DST#: 1

ATTN: Bob Peterson

Test Start: 2014.11.28 @ 18:50:25

Tool Information

Drill Pipe:	Length: 3215.00 ft	Diameter: 3.75 inches	Volume: 43.92 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose:	59000.00 lb
			<u>Total Volume:</u>	Tool Chased	5.00 ft
			- bbl	String Weight: Initial	55000.00 lb
Drill Pipe Above KB:	21.00 ft			Final	56000.00 lb
Depth to Top Packer:	3338.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	165.00 ft				
Tool Length:	192.00 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			3312.00	
Shut In Tool	5.00			3317.00	
Hydraulic tool	5.00			3322.00	
Jars	5.00			3327.00	
Safety Joint	2.00			3329.00	
Packer	5.00			3334.00	27.00 Bottom Of Top Packer
Packer	4.00			3338.00	
Stubb	1.00			3339.00	
Recorder	0.00	8651	Inside	3339.00	
Recorder	0.00	8655	Outside	3339.00	
Perforations	5.00			3344.00	
Change Over Sub	1.00			3345.00	
Drill Pipe	154.00			3499.00	
Change Over Sub	1.00			3500.00	
Bullnose	3.00			3503.00	165.00 Bottom Packers & Anchor

Total Tool Length: 192.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bach Oil Production

18-1s-18w Phillips,KS

PO Box 723
Alma, NE 68920

Knape #4

Job Ticket: 58415

DST#: 1

ATTN: Bob Peterson

Test Start: 2014.11.28 @ 18:50:25

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 78.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 4.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
250.00	MW, 40%M 60%W	2.392
15.00	CO	0.205

Total Length: 265.00 ft Total Volume: 2.597 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

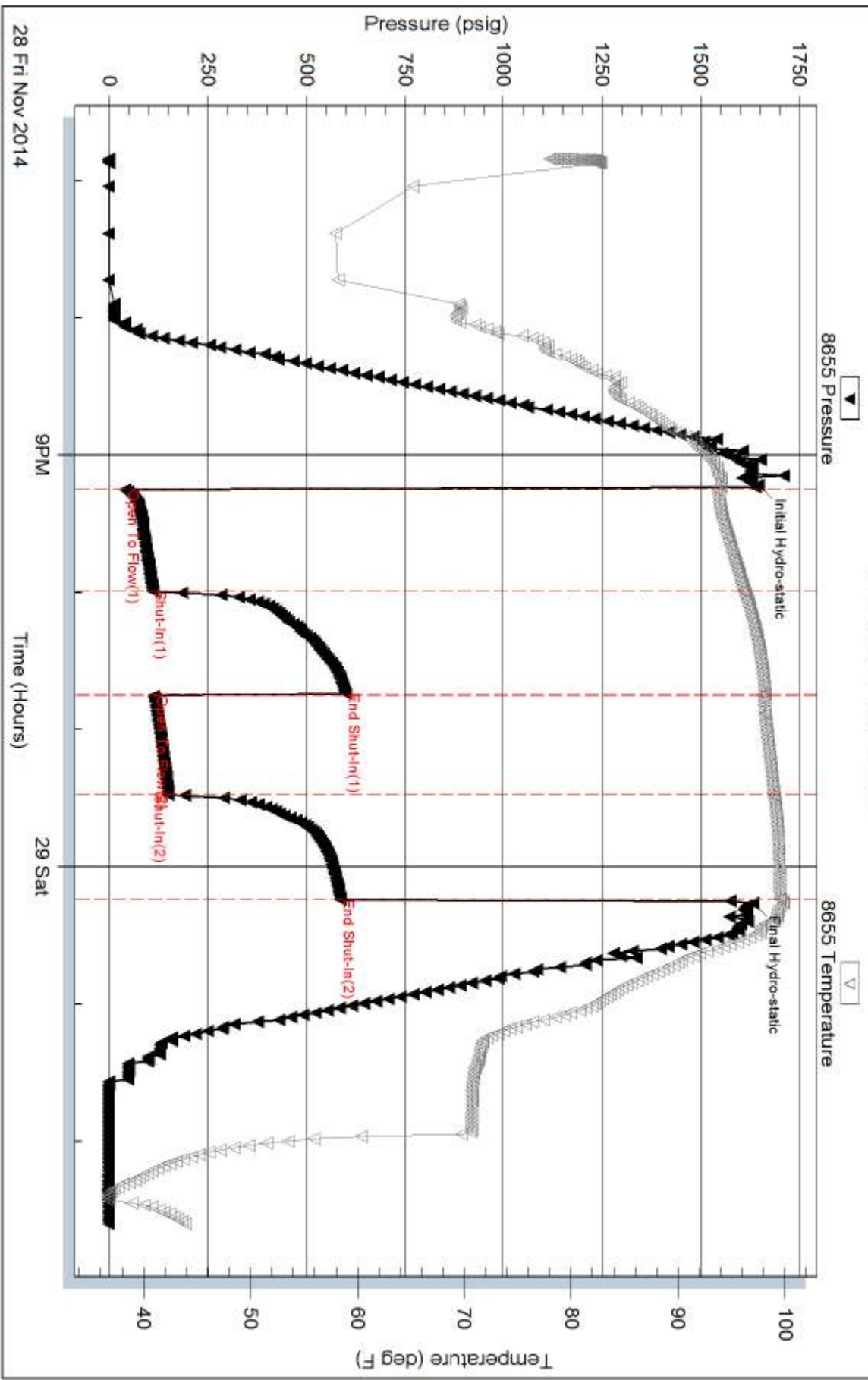
Serial #: 8655

Outside Bach Oil Production

Knape #4

DST Test Number: 1

Pressure vs. Time



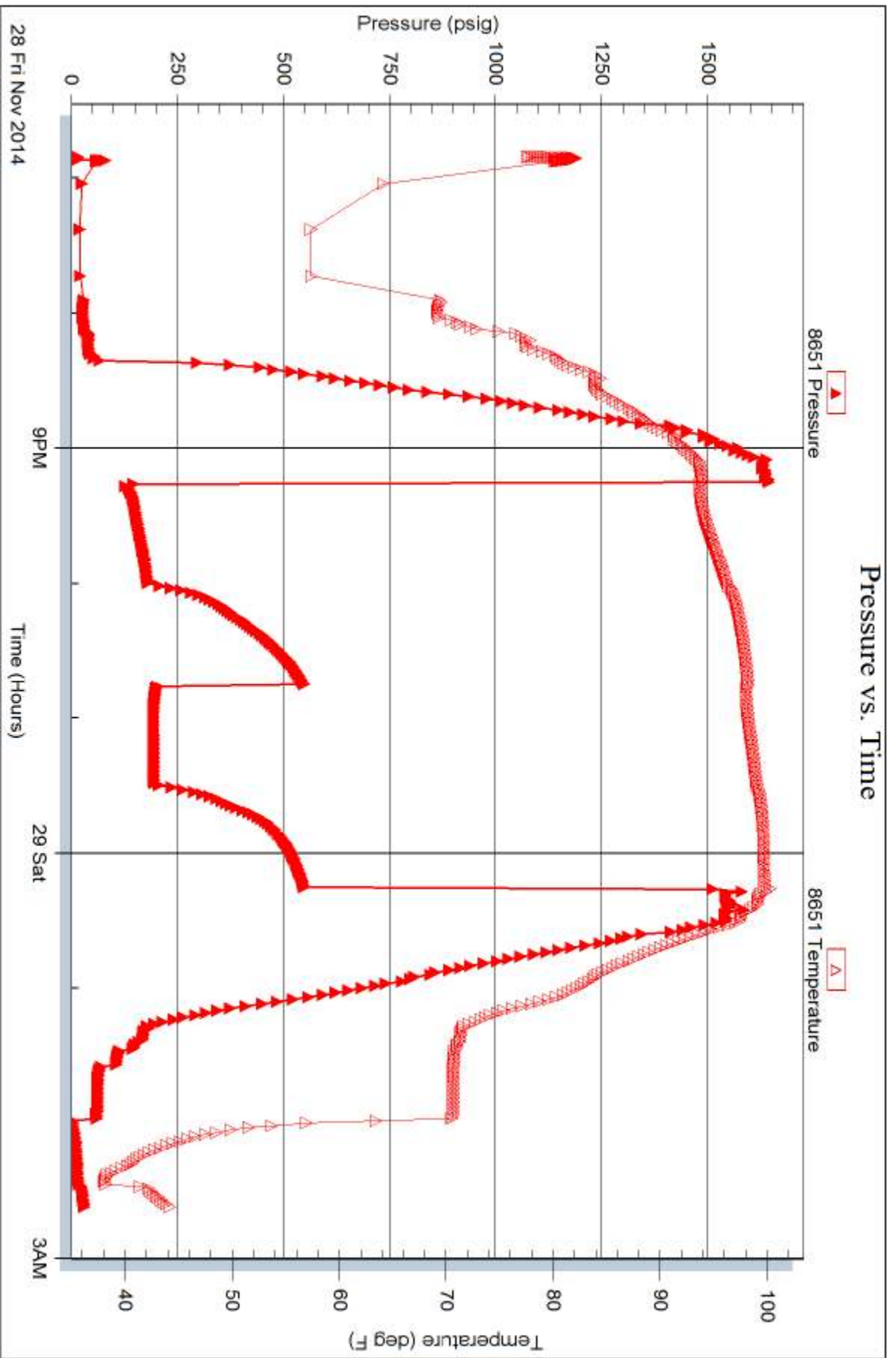
Serial #: 8651

Inside

Back Oil Production

Knape #4

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58415

Well Name & No. Knappe #4 Test No. 1 Date 11/28/14
 Company Buch Oil Production Elevation 2116 KB 2111 GL
 Address PO Box 723 Alma, NE 68920
 Co. Rep / Geo. Bob Peterson Rig Murphy #24
 Location: Sec. 18 Twp. 1 S Rge. 18 W Co. Phillips State KS

Interval Tested 3338-3503 Zone Tested LKC
 Anchor Length 165' Drill Pipe Run 3215 Mud Wt. 8.6
 Top Packer Depth 3333 Drill Collars Run 117 Vis 28
 Bottom Packer Depth 3338 Wt. Pipe Run --- WL 4.8
 Total Depth 3503 Chlorides 400 ppm System LCM 2#

Blow Description IF - BOB 32mm
ISI - No Blow
FF - Slowly built to 9"
FSF - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>250</u>	<u>MW</u>			<u>60</u>	<u>40</u>
<u>15</u>	<u>CO</u>				

Rec Total 265' BHT 100° Gravity 36 API RW .17 @ 59 ° F Chlorides 0,000 ppm

(A) Initial Hydrostatic <u>1647</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1845</u>
(B) First Initial Flow <u>41</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1850</u>
(C) First Final Flow <u>111</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2115</u>
(D) Initial Shut-In <u>599</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0015</u> <u>11/29</u>
(E) Second Initial Flow <u>114</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0237</u>
(F) Second Final Flow <u>150</u>	<input checked="" type="checkbox"/> Mileage <u>176 RT</u>	Comments
(G) Final Shut-In <u>586</u>	<input type="checkbox"/> Sampler <u>137 rt 212.35</u>	
(H) Final Hydrostatic <u>1633</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>45</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>45</u>	<input type="checkbox"/> Day Standby	Total <u>1687.35</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1687.35</u>	

Approved By _____ Our Representative Brannan Lonsdale

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.