



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1103985  
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
-----------------------------------	-----------------	---

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: \_\_\_\_\_



1103985

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> _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	Dreiling B 1
Doc ID	1103985

Tops

Name	Top	Datum
Anhydrite	1206'	(797)
Topeka	2993'	(-990)
Heebner	3236'	(-1233)
Toronto	3256'	(-1253)
Lansing	3281'	(-1278)
Base/KC	3510'	(-1507)
Arbuckle	3528'	(-1525)
L.T.D.	3603'	(-1600)

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

December 06, 2012

Marge Schulte  
Farmer, John O., Inc.  
370 W WICHITA AVE  
PO BOX 352  
RUSSELL, KS 67665-2635

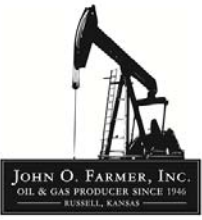
Re: ACO1  
API 15-051-26355-00-00  
Dreiling B 1  
SE/4 Sec.15-13S-17W  
Ellis County, Kansas

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,  
Marge Schulte



# AUSTIN B. KLAUS



**Cell 785.650.3629**  
**Work 785.483.3145**  
**Ext 225**

**PO BOX 352**  
**Russell, KS 67665**  
**austin.klaus@johnofarmer.com**

**Scale 1:240 (5"=100') Imperial**  
**Measured Depth Log**

**Well Name:** Dreiling B #1  
**Location:** Ellis County  
**License Number:** API #15-051-26,355-0000  
**Spud Date:** 8/23/2012  
**Surface Coordinates:** 450' FSL & 2,200 FEL  
**Bottom Hole Coordinates:** Section 15 - Township 13 South - Range 17 West  
**Vertical well with minimal deviation, same as above**  
**Ground Elevation (ft):** 1995'      **K.B. Elevation (ft):** 2003'  
**Logged Interval (ft):** 2950'      **To: RTD**      **Total Depth (ft):** RTD: 3600' LTD: 3603'  
**Formation:** Topeka-Arbuckle  
**Type of Drilling Fluid:** Chemical (Andy's)  
**Region:** Kansas  
**Drilling Completed:** 8/29/2012

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

## OPERATOR

**Company:** John O. Farmer, Inc.  
**Address:** P.O. Box 352  
Russell, KS 67665-0352

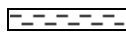



## COMMENTS





The Dreiling B #1 was drilled by Discovery Drilling Rig #4 (Tool Pusher: Mike Gaschler).

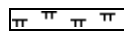

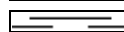
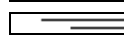
The location for the Dreiling B#1 well was found via 3-D seismic survey. Based on the results of the drill stem tests that were conducted and the samples and wireline logs that were evaluated, the decision was made to plug and abandon the Dreiling B#1 well on 8/29/2012.

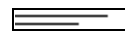



### ROCK TYPES

-  Anhy
-  Bent
-  Brec
-  Cht








-  Clyst
-  Coal
-  Congl
-  Dol

-  Gyp
-  Igne
-  Lmst
-  Meta

-  Mrlst
-  Salt
-  Shale
-  Shcol





-  Shgy
-  Sltst
-  Ss
-  Till

### OTHER SYMBOLS

- #### POROSITY
-  Earthy
  -  Fenest
  -  Fracture
  -  Inter
  -  Moldic
  -  Organic
  -  Pinpoint

Vuggy

- #### SORTING
-  Well
  -  Moderate
  -  Poor

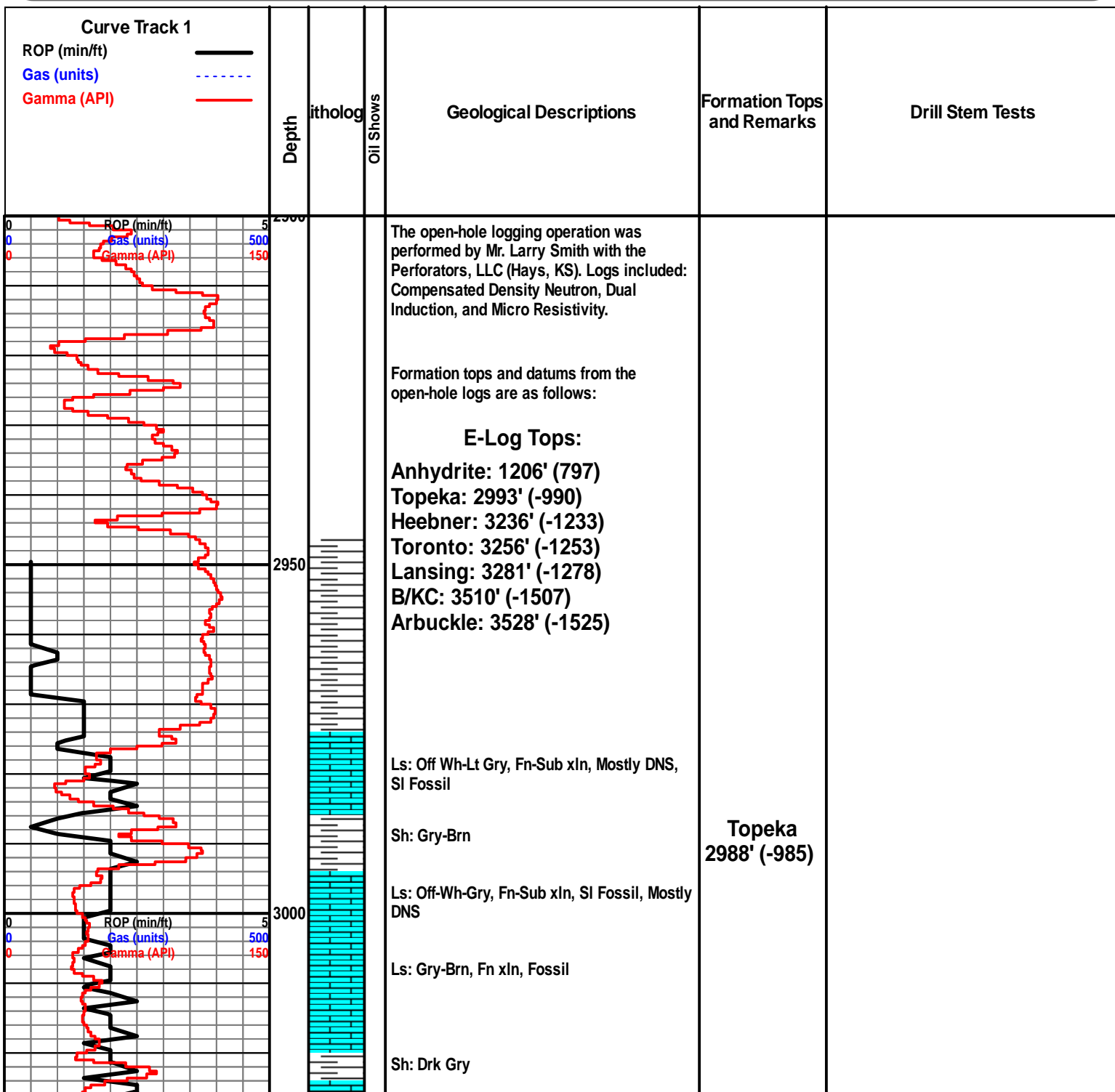
- #### ROUNDING
-  Rounded
  -  Subrnd
  -  Subang
  -  Angular

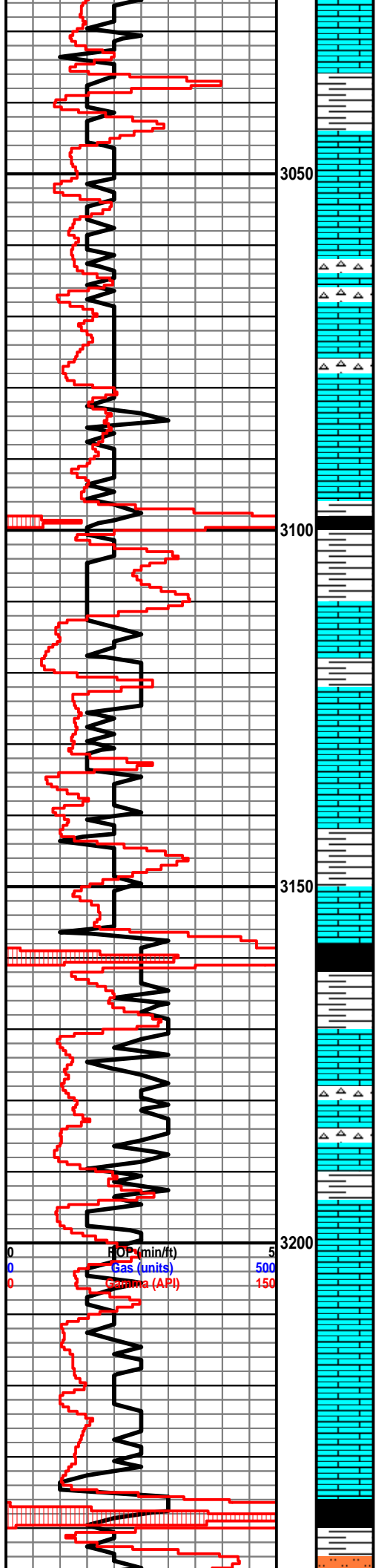
- #### OIL SHOW
-  Even

-  Spotted
-  Ques
-  Dead

- #### INTERVAL
-  Core
  -  Dst

- #### EVENT
-  Rft
  -  Sidewall





Ls: Gry, Fn xIn, Scat PP Porosity, Fossil, NSFO, No Odor

Sh: Drk Gry-Brn

3050

Ls: Off Wh, Fn-Sub xIn, SI Fossil, SI Chalky

Ls: ala, Chert-Off Wh

Ls: Off Wh-Lt Gry, Fn-Sub xIn, Fossil

3100

Sh: Drk Gry-Blk

Ls: Gry-Off Wh, Fn-Sub xIn, Fossil

Sh: Drk Gry-Brn-Grn

Ls: Gry-Off Wh, Fn-Sub xIn, Fossil

Sh: Gry-Blk

3150

Ls: Off Wh-Lt Gry, Fn xIn, SI Chert-Off Wh, SI Chalky

Sh: Drk Gry-Blk

Sh: Drk Gry

Ls: Gry-Brn, Fn-Sub xIn, Fossil, SI Chert-Off Wh

Sh: Gry

3200

Ls: Gry-Lt Gry, Fn xIn, Mostly DNS, SI Chalky

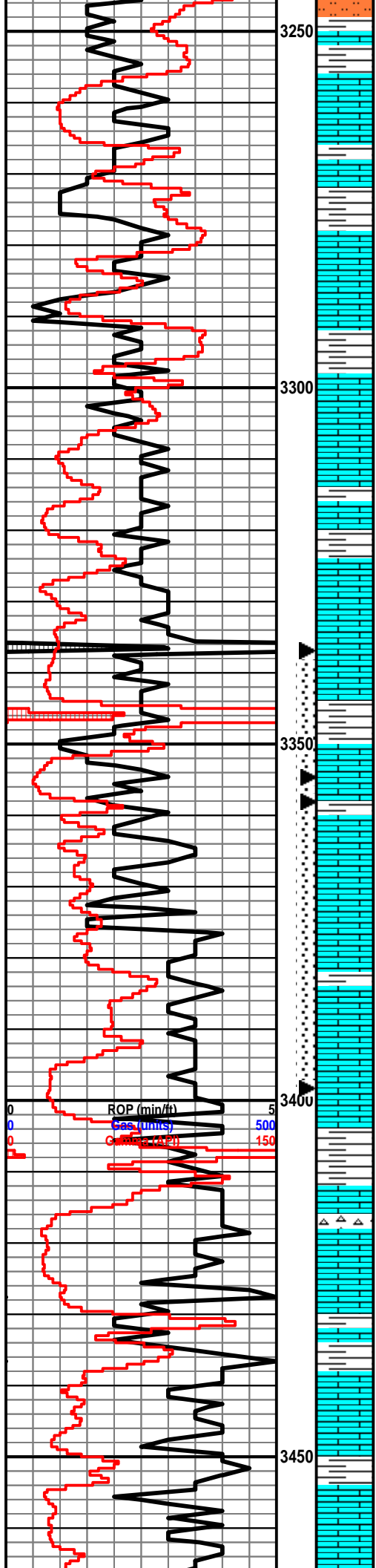
Ls: Off Wh, Fn xIn, Scat PP Vuggy Porosity, SI Oil St in Porosity, SI Odor, VSSFO

Ls: Off Wh-Lt Gry, Fn xIn, SI Fossil, Mostly DNS

Sh: Blk, Carb

Sh: Drk Gry-Brn

Heebner  
3232'(-1229)



Slst: Drk Brn-Grn

Ls: Off Wh-Tan, Fn-Sub xln, Poor PP Porosity, Vry Lt Oil St in Porosity, SI Odor, NSFO

Ls: Off Wh-Tan, Fn-Sub xln, Mostly DNS

Sh: Gry-Brn

Ls: Off Wh, Fn xln, Scat PP & Int xln Porosity, Vry Lt Oil St in Porosity, NSFO, SI Odor

Ls: Off Wh, Fn xln, Mostly DNS, SI Chalky

Sh: Gry-Brn

Ls: Off Wh, Fn xln, Poor PP Porosity, Lt Oil St in Porosity, SI Odor

Sh: Drk Gry

Ls: Off Wh, Fn xln, Poor Int xln Porosity, Lt-Fair Oil St in Porosity, VSSFO in cup, Lt Odor, SI Fossil

Sh: Drk Gry-Blk

Ls: Off Wh, Fn xln, Poor-Fair Int xln Porosity, Fair Oil St in Porosity, SSFO, Fair Odor

Ls: Off Wh, Fn xln, Ool, Poor Int xln & Oom Porosity, Lt-Fair Oil St in Porosity, VSSFO in cup, SI Fossil, Lt-Fair Odor

Ls: Off Wh, Fn xln, Poor-Fair Int Part & Vuggy Porosity, Fair Oil St in Porosity, Fair Odor, SSFO

Sh: Drk Gry

Ls: Off Wh-Tan, Fn-Sub xln, Mostly DNS, SI Chert-Off Wh

Ls: ala

Sh: Drk Gry

Ls: Off Wh-Tan, Fn xln, Scat PP & Poor Int xln Porosity, Lt Oil St in Porosity, VSSFO, Lt Odor

Sh: Drk Gry-Grn

Ls: Off Wh-Tan, Fn xln, Scat PP Vuggy Porosity, Scat Dead Oil St in Porosity, Lt Odor, NSFO

**Toronto**  
3253'(-1250)

**Lansing**  
3277'(-1274)

A

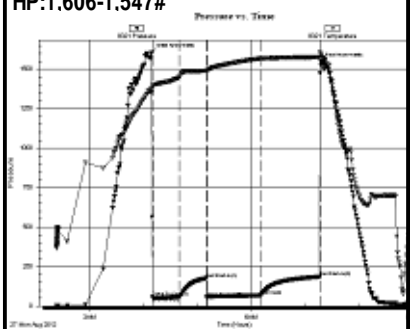
B

DST #1 3,337-3,358' LKC E  
30"-30"-30"-30"

C

IF: BOB in 23 minutes, no blow back  
FF: BOB in 44 minutes, no blow back  
Rec: 283' Gas in Pipe  
31' Mud w/ Oil Spots  
63' Muddy Water (35% M, 65% W) (Chl 36K)  
FP: 59-58,53-67#  
SIP: 177-185#  
HP:1.606-1.547#

D



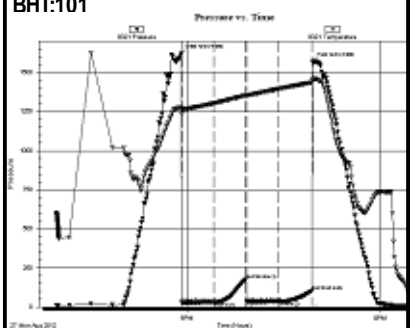
E

DST #2 3,355-3,398' LKC F&G  
30"-30"-30"-30"

F

IF: Weak Surface blow died in 20 minutes no blow back  
FF: No Blow  
Rec: 5' Mud, oil spots  
FP: 29-31, 33-34#  
SIP: 177-104#  
HP: 1,622-1,569#  
BHT:101

G

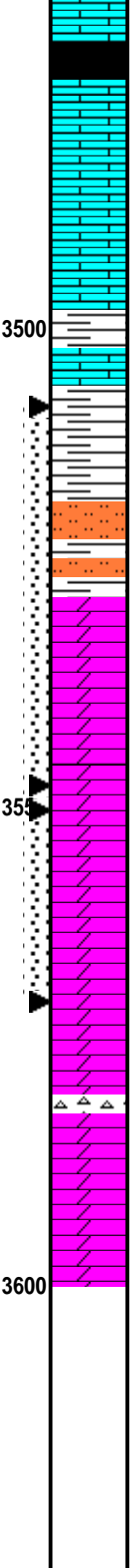
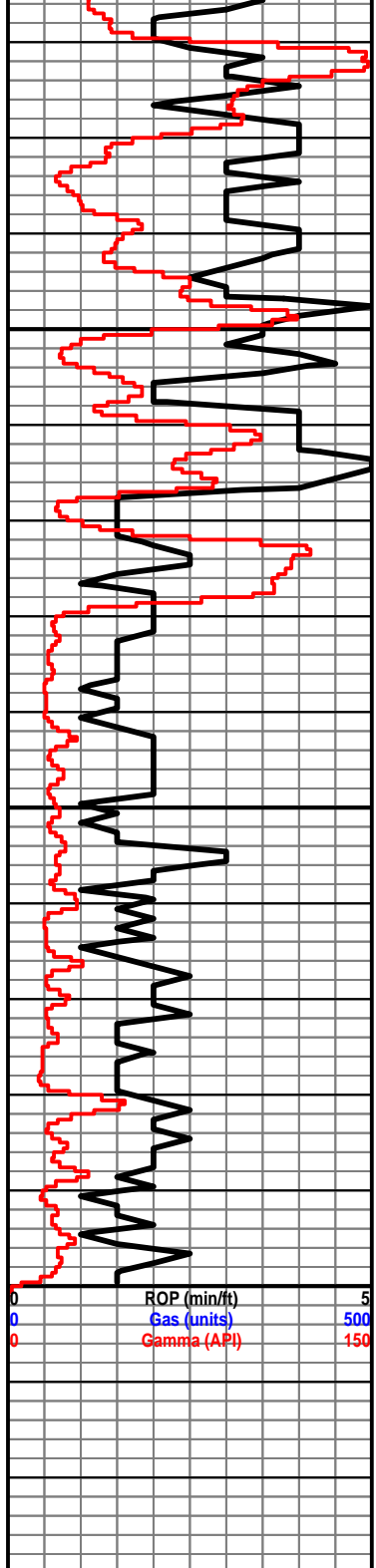


H

I

J





Sh: Drk Gry-Blk, Carb

Ls: Off Wh-Tan, Fn xln, Scat PP Porosity, Dead Oil St in Porosity, No Odor, NSFO

Ls: ala

Sh: Gry

Ls: Off Wh-Tan, Fn-Sub xln, Mostly DNS

Sh: Gry-Grn

Sltst: Gry-Grn, Soft

Dolo: Tan-Off Wh-Brn, Fn xln, Poor-Fair Int xln Porosity, Fair-Good Oil St in Porosity, Fair-Good Odor, SSFO

Dolo: Tan-Brn, Fn xln, Fair Int xln Porosity, Fair-Good Oil St in Porosity, Fair-Good Oil St in Porosity, Dull Yel Fluor, Good odor, SFO

Dolo: Tan-Brn, Fn xln, Poor Int xln Porosity, Fair-Good Oil St in Porosity, Ool in Prt, Fair-Good Odor, SSFO

Dolo: Off Wh, Fn Sucrosic xln, Poor Int xln Porosity, Fair Oil St in Porosity, Good Odor, SFO, Chert-Off Wh

Dolo: Off Wh, Fn-Md Sucrosic xln, Poor Int xln Porosity, Fair-Good St in Porosity, Fair Odor, SSFO

**K**

**L**

**B/KC**

**3505'(-1502)**

**Arbuckle**

**3526'(-1523)**

DST #3 3,508-3,550' Top 22' of Arbuckle  
30"-30"-30"-30"

IF: Weak blow built to .75", no blow back  
FF: No Blow  
Rec: 5' Mud  
FP: 34-42, 41-41#  
SIP: 41-40#  
HP: 1,859-1,726#  
BHT: 106

DST #4 3,548-3,570' 20-42' in Arbuckle  
30"-30"-30"-30"

IF: BOB in 4.5 minutes, weak surface blow on shut in  
FF: BOB in 6.5 minutes, weak surface blow on shut in  
Rec: 1' Clean Oil  
57' OCWM (10% O, 10% W, 80 % M)  
63' SOCWM (5% O, 40% W, 55% M)  
630' MW (5% M, 95% W) (Chl 27k)  
FP: 50-221,234-353#  
SIP: 752-744#  
HP: 1,761-1,773#  
BHT: 112



## DRILL STEM TEST REPORT

Prepared For: **John O Farmer, Inc**

PO Box 352  
Russell KS 67665 + 2635

ATTN: John O Farmer IV

### **Dreiling B #1**

#### **15-13s-17w Ellis,KS**

Start Date: 2012.08.27 @ 02:23:01

End Date: 2012.08.27 @ 09:00:31

Job Ticket #: 48533                      DST #: 1

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

Printed: 2012.08.30 @ 11:51:02

John O Farmer, Inc  
15-13s-17w Ellis,KS  
Dreiling B #1  
DST # 1  
LKC-E  
2012.08.27



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

John O Farmer, Inc  
 PO Box 352  
 Russell KS 67665 + 2635  
 ATTN: John O Farmer IV

**15-13s-17w Ellis,KS**  
**Dreiling B #1**  
 Job Ticket: 48533 **DST#: 1**  
 Test Start: 2012.08.27 @ 02:23:01

## GENERAL INFORMATION:

Formation: **LKC-E**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:10:01  
 Time Test Ended: 09:00:31  
 Interval: **3337.00 ft (KB) To 3358.00 ft (KB) (TVD)**  
 Total Depth: 3358.00 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: 2003.00 ft (KB)  
 1995.00 ft (CF)  
 KB to GR/CF: 8.00 ft

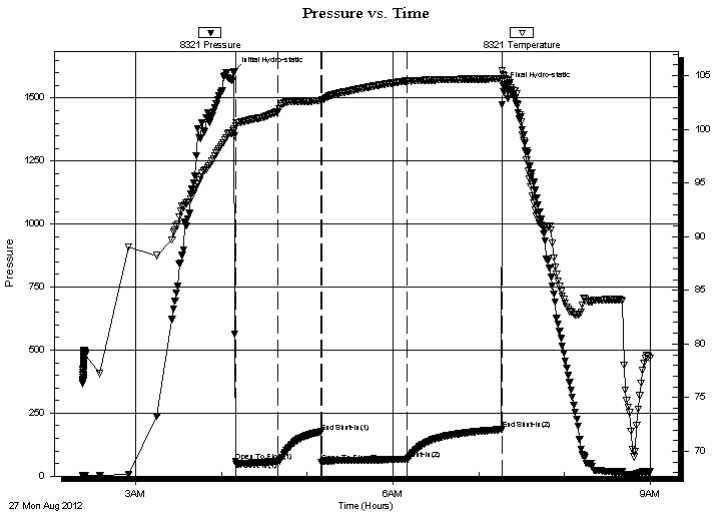
## Serial #: 8321

Inside

Press @ Run Depth: 67.44 psig @ 3340.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.08.27 End Date: 2012.08.27 Last Calib.: 2012.08.27  
 Start Time: 02:23:02 End Time: 08:59:31 Time On Btm: 2012.08.27 @ 04:09:01  
 Time Off Btm: 2012.08.27 @ 07:17:01

**TEST COMMENT:** IFP-Strong blow BOB in 2 1/2 min  
 ISI-Dead no blow back  
 FFP-Good blow BOB in 44 min  
 FSI-Dead no blow back

## PRESSURE SUMMARY



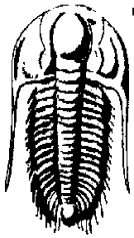
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1606.04	100.06	Initial Hydro-static
1	58.93	100.37	Open To Flow (1)
31	58.05	101.68	Shut-In(1)
61	175.73	102.68	End Shut-In(1)
61	53.32	102.70	Open To Flow (2)
121	67.44	104.52	Shut-In(2)
187	185.24	104.74	End Shut-In(2)
188	1546.82	105.10	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
31.00	Mud w ith oil spots	0.15
63.00	MW w ith oil spots 35%M 65 %W	0.88
0.00	283-GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

John O Farmer, Inc  
PO Box 352  
Russell KS 67665 + 2635  
ATTN: John O Farmer IV

**15-13s-17w Ellis, KS**

**Dreiling B #1**

Job Ticket: 48533      **DST#: 1**  
Test Start: 2012.08.27 @ 02:23:01

## GENERAL INFORMATION:

Formation: **LKC-E**  
Deviated: No Whipstock:      ft (KB)  
Time Tool Opened: 04:10:01  
Time Test Ended: 09:00:31

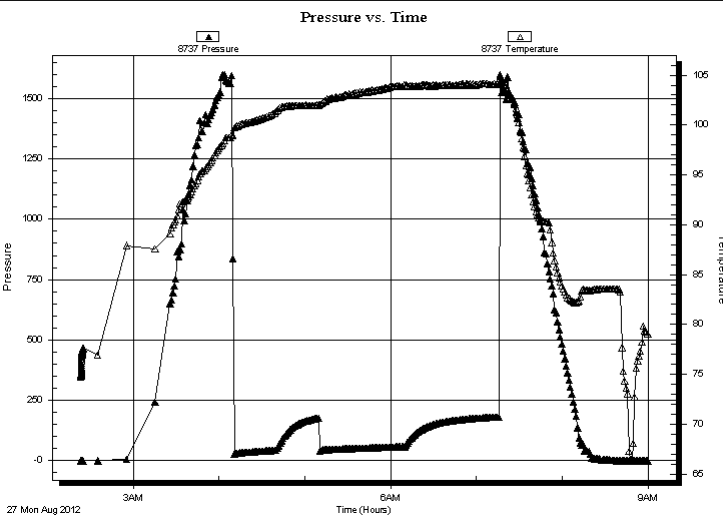
Interval: **3337.00 ft (KB) To 3358.00 ft (KB) (TVD)**  
Total Depth: 3358.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)  
Tester: Jeff Brown  
Unit No: 44  
Reference Elevations: 2003.00 ft (KB)  
1995.00 ft (CF)  
KB to GR/CF: 8.00 ft

## Serial #: 8737      Outside

Press @ Run Depth:      psig @      3340.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.08.27      End Date: 2012.08.27      Last Calib.: 2012.08.27  
Start Time: 02:23:09      End Time: 08:59:38      Time On Btm:  
Time Off Btm:

TEST COMMENT: IFP-Strong blow BOB in 2 1/2 min  
ISI-Dead no blow back  
FFP-Good blow BOB in 44 min  
FSI-Dead no blow back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
31.00	Mud w ith oil spots	0.15
63.00	MW w ith oil spots 35%M 65 %W	0.88
0.00	283-GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

John O Farmer, Inc  
 PO Box 352  
 Russell KS 67665 + 2635  
 ATTN: John O Farmer IV

**15-13s-17w Ellis,KS**  
**Dreiling B #1**  
 Job Ticket: 48533      **DST#: 1**  
 Test Start: 2012.08.27 @ 02:23:01

**Tool Information**

Drill Pipe:	Length: 3299.00 ft	Diameter: 3.80 inches	Volume: 46.28 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	69000.00 lb
			<u>Total Volume: 46.43 bbl</u>	Tool Chased	6.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3337.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	21.00 ft				
Tool Length:	41.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			3318.00	
Shut In Tool	5.00			3323.00	
Hydraulic tool	5.00			3328.00	
Packer	4.00			3332.00	20.00      Bottom Of Top Packer
Packer	5.00			3337.00	
Stubb	1.00			3338.00	
Perforations	2.00			3340.00	
Recorder	0.00	8321	Inside	3340.00	
Recorder	0.00	8737	Outside	3340.00	
Perforations	15.00			3355.00	
Bullnose	3.00			3358.00	21.00      Bottom Packers & Anchor

**Total Tool Length: 41.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O Farmer, Inc

**15-13s-17w Ellis,KS**

PO Box 352  
Russell KS 67665 + 2635

**Dreiling B #1**

Job Ticket: 48533

**DST#: 1**

ATTN: John O Farmer IV

Test Start: 2012.08.27 @ 02:23:01

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 48.00 sec/qt  
Water Loss: 8.77 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 2000.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
31.00	Mud w ith oil spots	0.152
63.00	MW w ith oil spots 35%M 65 %W	0.884
0.00	283-GIP	0.000

Total Length: 94.00 ft      Total Volume: 1.036 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

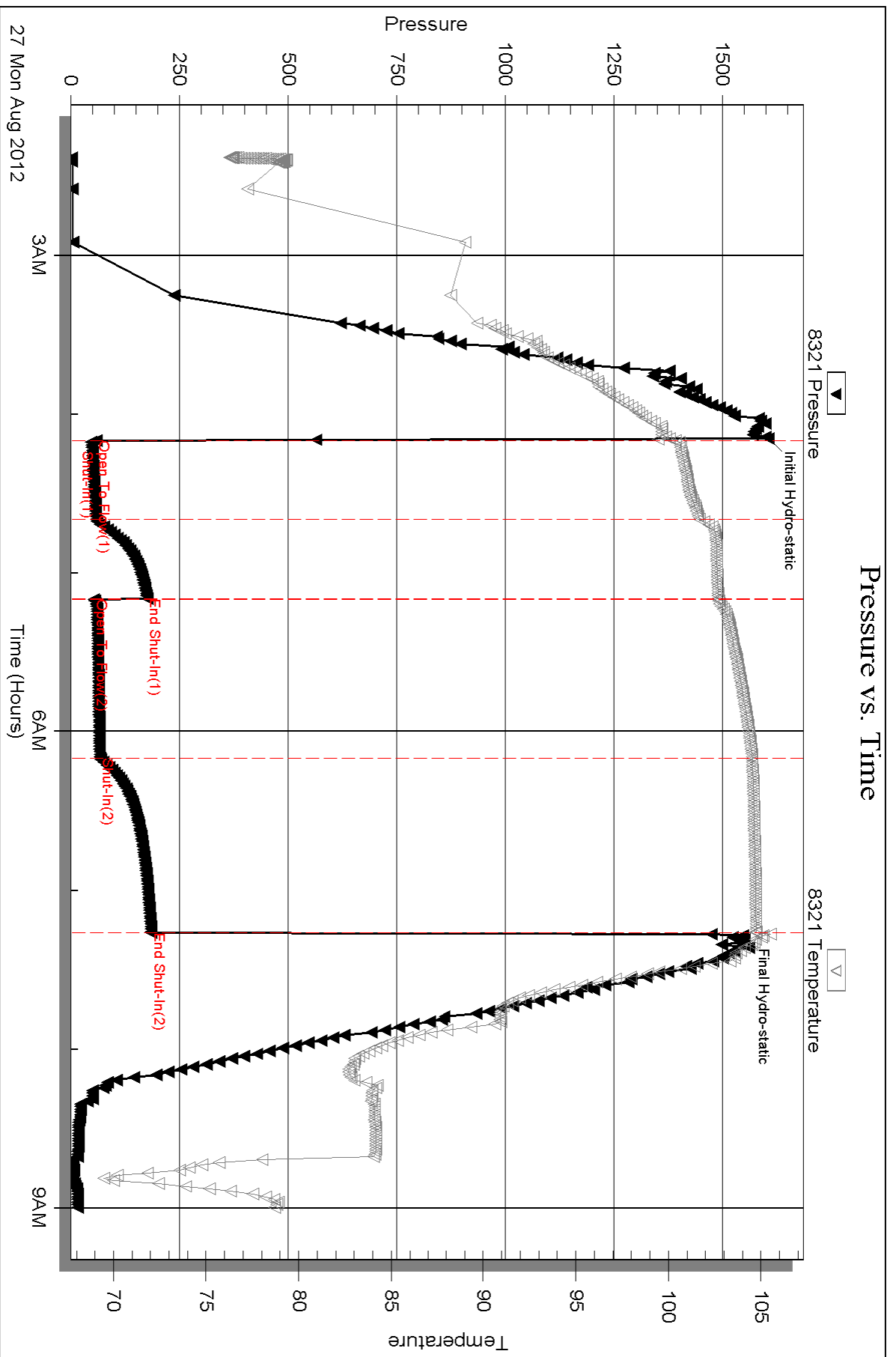
Serial #: 8321

Inside

John O Farmer, Inc

Drilling B #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 48533

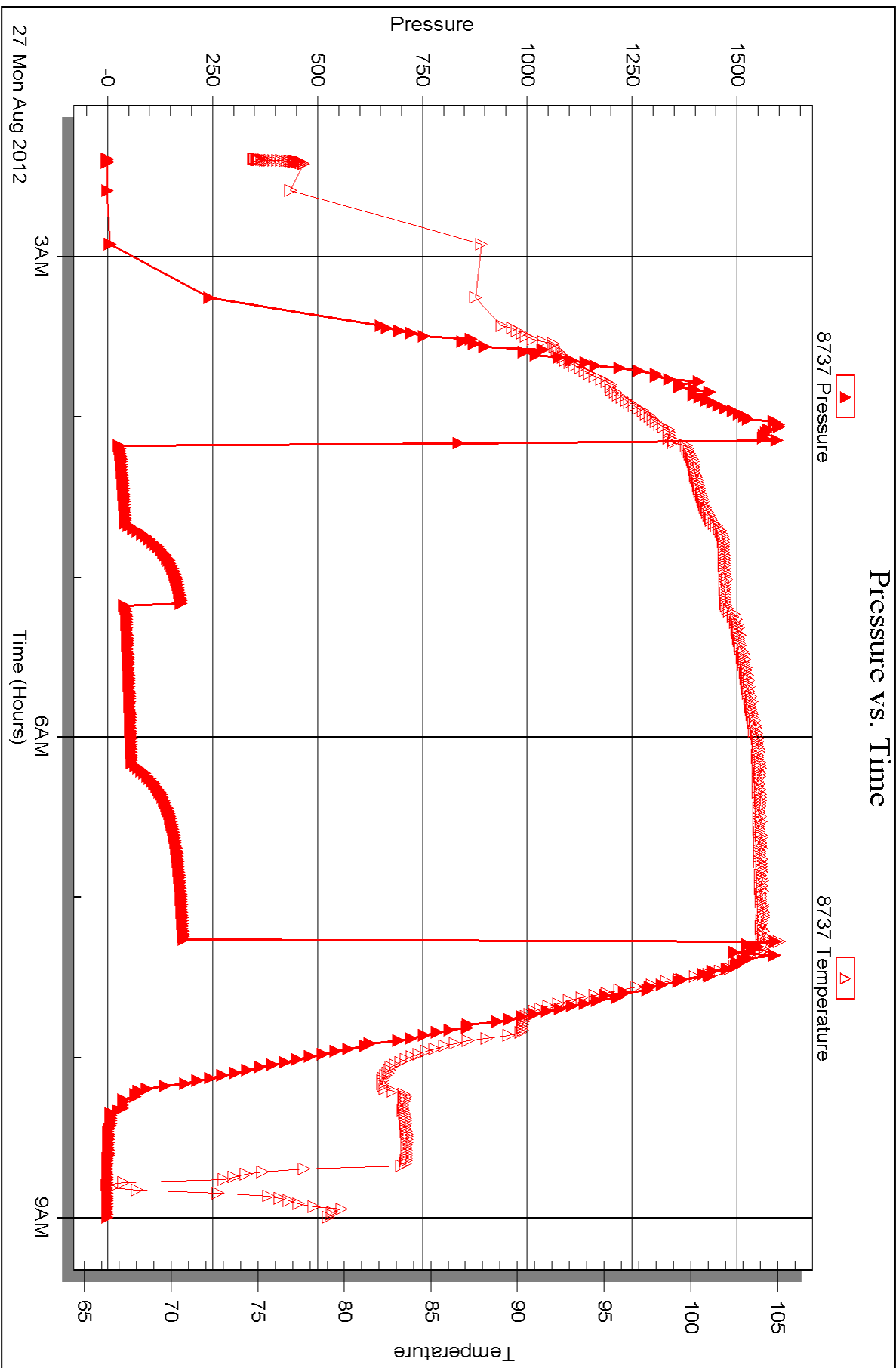
Printed: 2012.08.30 @ 11:51:07

Serial #: 8737

Outside John O Farmer, Inc

Drilling B #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 48533

Printed: 2012.08.30 @ 11:51:07





## DRILL STEM TEST REPORT

Prepared For: **John O Farmer, Inc**

PO Box 352  
Russell KS 67665 + 2635

ATTN: John O Farmer IV

### **Dreiling B #1**

#### **15-13s-17w Ellis,KS**

Start Date: 2012.08.27 @ 15:57:54

End Date: 2012.08.27 @ 21:30:54

Job Ticket #: 48534                      DST #: 2

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

Printed: 2012.08.30 @ 11:50:19

John O Farmer, Inc  
15-13s-17w Ellis,KS  
Dreiling B #1  
DST # 2  
LKC F-G  
2012.08.27



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

John O Farmer, Inc  
 PO Box 352  
 Russell KS 67665 + 2635  
 ATTN: John O Farmer IV

**15-13s-17w Ellis,KS**  
**Dreiling B #1**  
 Job Ticket: 48534      **DST#: 2**  
 Test Start: 2012.08.27 @ 15:57:54

## GENERAL INFORMATION:

Formation: **LKC F-G**  
 Deviated: No Whipstock:      ft (KB)  
 Time Tool Opened: 17:54:54  
 Time Test Ended: 21:30:54  
**Interval: 3355.00 ft (KB) To 3398.00 ft (KB) (TVD)**  
 Total Depth: 3398.00 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: 2003.00 ft (KB)  
 1995.00 ft (CF)  
 KB to GR/CF: 8.00 ft

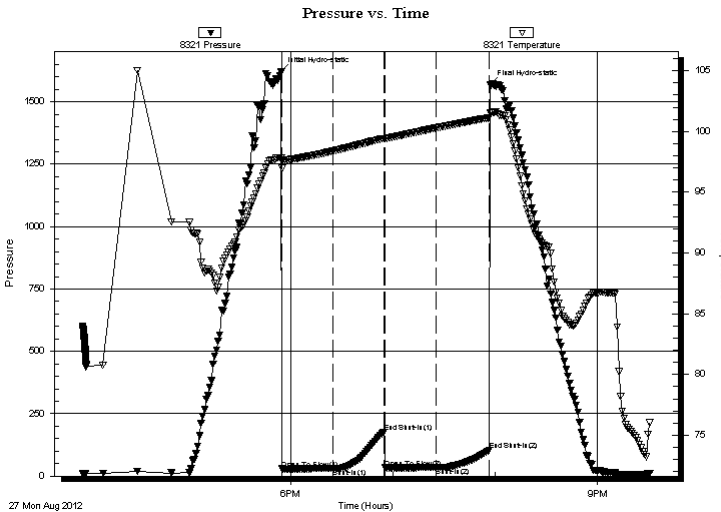
## Serial #: 8321

Inside

Press @ Run Depth: 34.42 psig @ 3359.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2012.08.27      End Date: 2012.08.27      Last Calib.: 2012.08.27  
 Start Time: 15:57:55      End Time: 21:30:54      Time On Btm: 2012.08.27 @ 17:54:24  
 Time Off Btm: 2012.08.27 @ 19:56:54

TEST COMMENT: IFP=Weak surface blow died out in 20 min  
 ISI=Dead no blow back  
 FFP=Dead no blow  
 FSI=Dead no blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1622.34	97.86	Initial Hydro-static
1	28.70	96.98	Open To Flow (1)
31	31.13	98.40	Shut-In(1)
60	176.65	99.44	End Shut-In(1)
61	32.93	99.43	Open To Flow (2)
91	34.42	100.29	Shut-In(2)
122	104.47	101.13	End Shut-In(2)
123	1569.22	101.56	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud with a scum of oil 100%M	0.02

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

John O Farmer, Inc  
 PO Box 352  
 Russell KS 67665 + 2635  
 ATTN: John O Farmer IV

**15-13s-17w Ellis,KS**  
**Dreiling B #1**  
 Job Ticket: 48534      **DST#: 2**  
 Test Start: 2012.08.27 @ 15:57:54

**Tool Information**

Drill Pipe:	Length: 3330.00 ft	Diameter: 3.80 inches	Volume: 46.71 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 46.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3355.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			3336.00	
Shut In Tool	5.00			3341.00	
Hydraulic tool	5.00			3346.00	
Packer	4.00			3350.00	20.00      Bottom Of Top Packer
Packer	5.00			3355.00	
Stubb	1.00			3356.00	
Perforations	2.00			3358.00	
Change Over Sub	1.00			3359.00	
Recorder	0.00	8321	Inside	3359.00	
Recorder	0.00	8737	Outside	3359.00	
Drill Pipe	30.00			3389.00	
Change Over Sub	1.00			3390.00	
Perforations	5.00			3395.00	
Bullnose	3.00			3398.00	43.00      Bottom Packers & Anchor

**Total Tool Length: 63.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O Farmer, Inc

**15-13s-17w Ellis,KS**

PO Box 352  
Russell KS 67665 + 2635

**Dreiling B #1**

Job Ticket: 48534

**DST#: 2**

ATTN: John O Farmer IV

Test Start: 2012.08.27 @ 15:57:54

## 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: 43.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 3000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud with a scum of oil 100%M	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8321

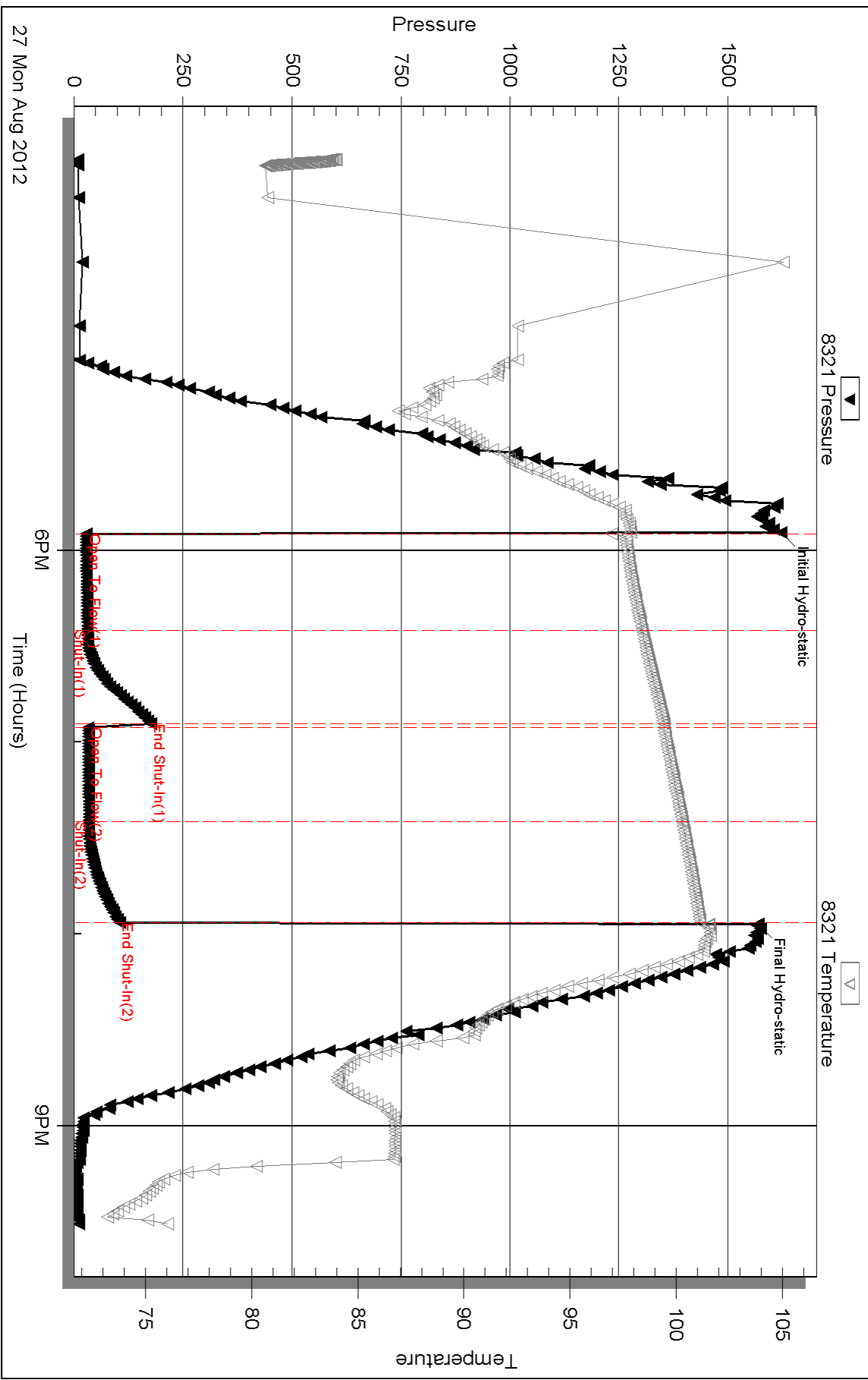
Inside

John O Farmer, Inc

Drilling B #1

DST Test Number: 2

# Pressure vs. Time



Triobite Testing, Inc

Ref. No: 48534

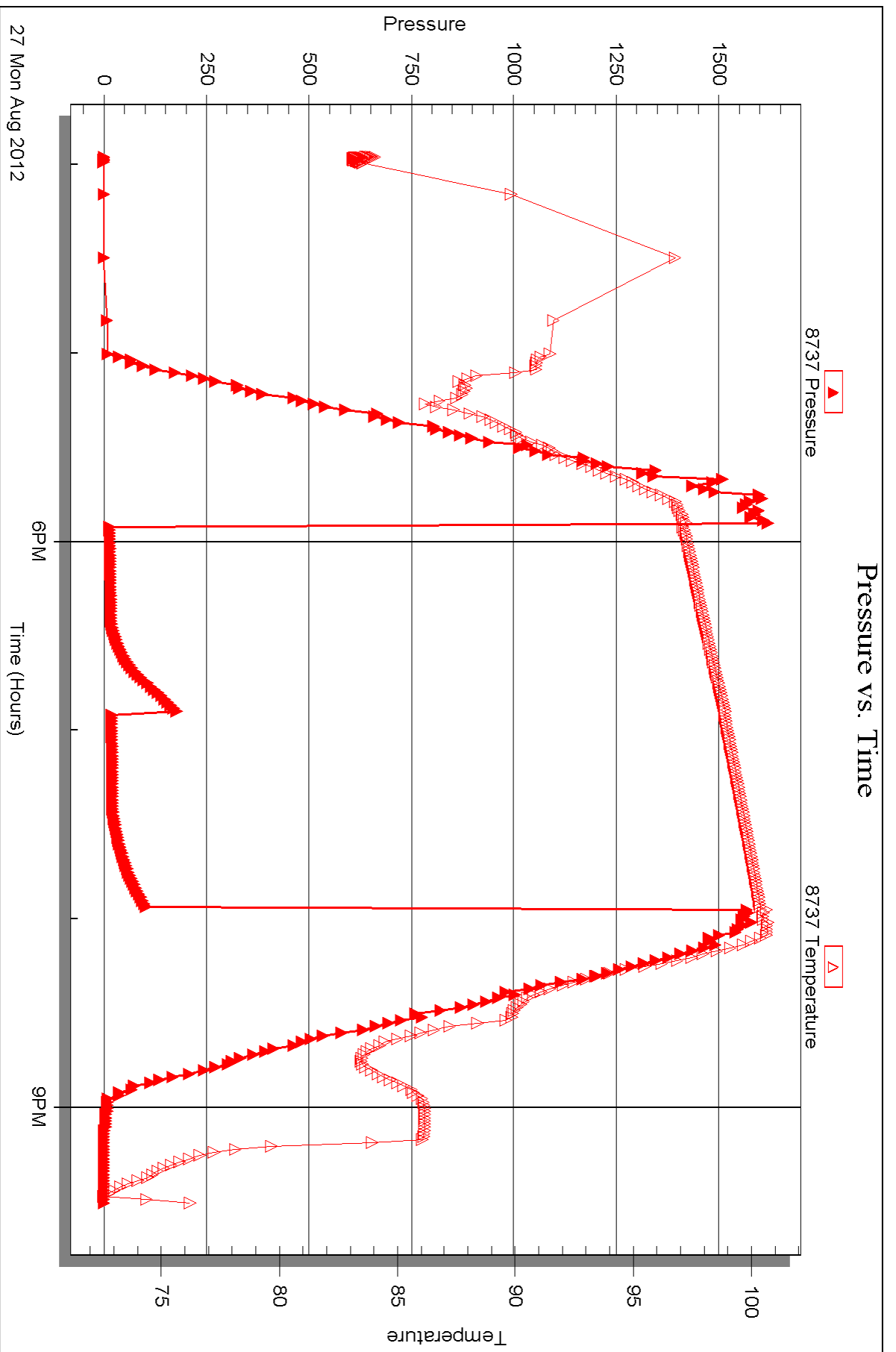
Printed: 2012.08.30 @ 11:50:24

Serial #: 8737

Outside John O Farmer, Inc

Drilling B #1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 48534

Printed: 2012.08.30 @ 11:50:24



## DRILL STEM TEST REPORT

Prepared For: **John O Farmer, Inc**

PO Box 352  
Russell KS 67665 + 2635

ATTN: John O Farmer IV

### **Dreiling B #1**

#### **15-13s-17w Ellis,KS**

Start Date: 2012.08.28 @ 18:00:16

End Date: 2012.08.28 @ 23:14:16

Job Ticket #: 48535                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.08.30 @ 11:49:38





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

John O Farmer, Inc  
 PO Box 352  
 Russell KS 67665 + 2635  
 ATTN: John O Farmer IV

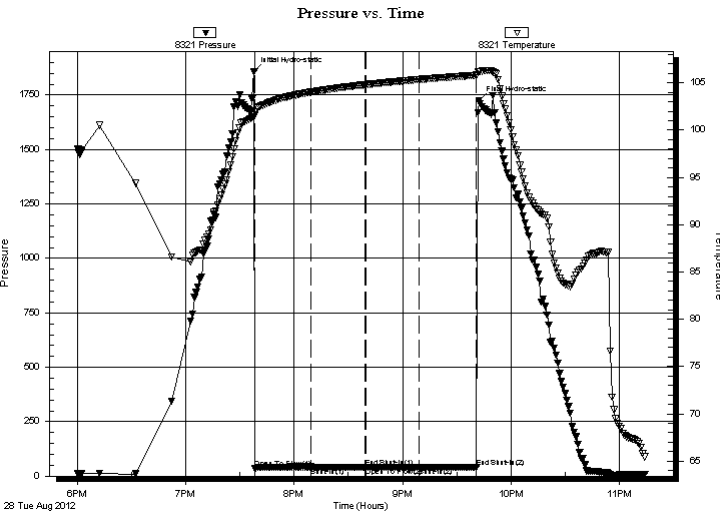
**15-13s-17w Ellis,KS**  
**Dreiling B #1**  
 Job Ticket: 48535 **DST#: 3**  
 Test Start: 2012.08.28 @ 18:00:16

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 19:38:16  
 Time Test Ended: 23:14:16  
 Interval: **3508.00 ft (KB) To 3550.00 ft (KB) (TVD)**  
 Total Depth: 3603.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Straddle (Reset)  
 Tester: Jeff Brown  
 Unit No: 44  
 Reference Elevations: 2003.00 ft (KB)  
 1995.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8321 Inside**  
 Press @ Run Depth: 40.83 psig @ 3544.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.08.28 End Date: 2012.08.28 Last Calib.: 2012.08.28  
 Start Time: 18:00:17 End Time: 23:14:16 Time On Btm: 2012.08.28 @ 19:37:46  
 Time Off Btm: 2012.08.28 @ 21:42:16

**TEST COMMENT:** IFP-Weak surface blow built to 1" died back to 3/4"  
 ISI-Dead no blow back  
 FFP-Dead no blow  
 FSI-Dead no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1859.25	101.67	Initial Hydro-static
1	34.48	101.57	Open To Flow (1)
32	42.46	104.02	Shut-In(1)
62	41.24	104.80	End Shut-In(1)
62	41.20	104.81	Open To Flow (2)
92	40.83	105.35	Shut-In(2)
123	40.15	105.81	End Shut-In(2)
125	1726.17	106.18	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

John O Farmer, Inc  
 PO Box 352  
 Russell KS 67665 + 2635  
 ATTN: John O Farmer IV

**15-13s-17w Ellis,KS**  
**Dreiling B #1**  
 Job Ticket: 48535      **DST#: 3**  
 Test Start: 2012.08.28 @ 18:00:16

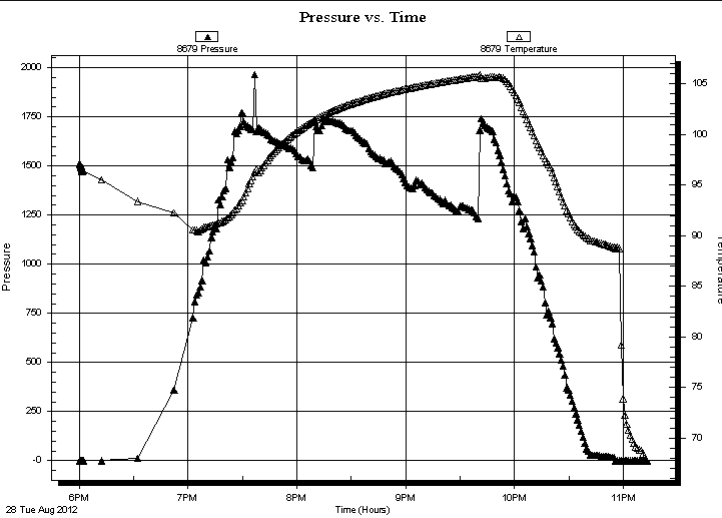
## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 19:38:16  
 Time Test Ended: 23:14:16  
**Interval: 3508.00 ft (KB) To 3550.00 ft (KB) (TVD)**  
 Total Depth: 3603.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Straddle (Reset)  
 Tester: Jeff Brown  
 Unit No: 44  
 Reference Elevations: 2003.00 ft (KB)  
 1995.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8679 Below (Straddle)

Press @ Run Depth: psig @ 3552.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2012.08.28      End Date: 2012.08.28      Last Calib.: 2012.08.28  
 Start Time: 18:00:21      End Time: 23:12:50      Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IFP-Weak surface blow built to 1" died back to 3/4"  
 ISI-Dead no blow back  
 FFP-Dead no blow  
 FSI-Dead no blow back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

John O Farmer, Inc  
PO Box 352  
Russell KS 67665 + 2635  
ATTN: John O Farmer IV

**15-13s-17w Ellis, KS**  
**Dreiling B #1**  
Job Ticket: 48535      **DST#: 3**  
Test Start: 2012.08.28 @ 18:00:16

**GENERAL INFORMATION:**

Formation: **Arbuckle**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 19:38:16  
Time Test Ended: 23:14:16  
**Interval: 3508.00 ft (KB) To 3550.00 ft (KB) (TVD)**  
Total Depth: 3603.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good

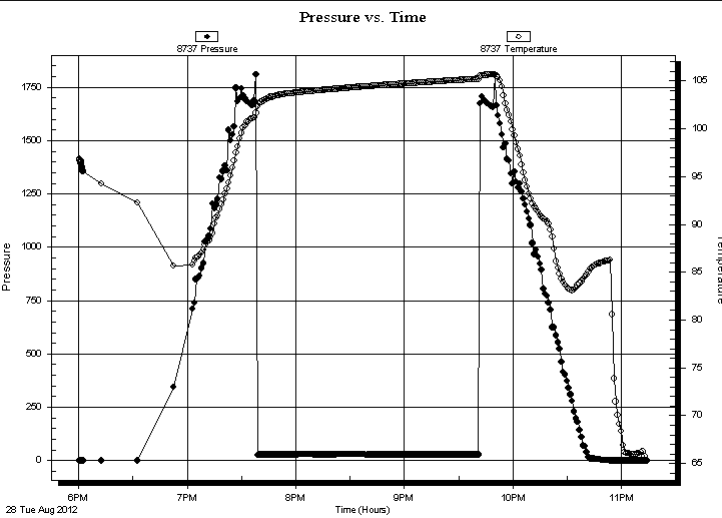
Test Type: Conventional Straddle (Reset)  
Tester: Jeff Brown  
Unit No: 44  
Reference Elevations: 2003.00 ft (KB)  
1995.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8737**

**Outside**

Press @ Run Depth:                      psig @ 3544.00 ft (KB)  
Start Date: 2012.08.28      End Date: 2012.08.28      Capacity: 8000.00 psig  
Start Time: 18:00:30      End Time: 23:14:29      Last Calib.: 2012.08.28  
Time On Btm:  
Time Off Btm:

**TEST COMMENT:** IFP-Weak surface blow built to 1" died back to 3/4"  
ISI-Dead no blow back  
FFP-Dead no blow  
FSI-Dead no blow back



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

John O Farmer, Inc

**15-13s-17w Ellis,KS**

PO Box 352  
Russell KS 67665 + 2635

**Dreiling B #1**

Job Ticket: 48535

**DST#: 3**

ATTN: John O Farmer IV

Test Start: 2012.08.28 @ 18:00:16

### Tool Information

Drill Pipe:	Length: 3487.00 ft	Diameter: 3.80 inches	Volume: 48.91 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 49.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3508.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	3550.00 ft			
Interval between Packers:	42.00 ft			
Tool Length:	115.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

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

Change Over Sub	1.00			3489.00	
Shut In Tool	5.00			3494.00	
Hydraulic tool	5.00			3499.00	
Packer	4.00			3503.00	20.00 Bottom Of Top Packer
Packer	5.00			3508.00	
Stubb	1.00			3509.00	
Perforations	2.00			3511.00	
Change Over Sub	1.00			3512.00	
Drill Pipe	31.00			3543.00	
Change Over Sub	1.00			3544.00	
Recorder	0.00	8321	Inside	3544.00	
Recorder	0.00	8737	Outside	3544.00	
Perforations	2.00			3546.00	
Blank Off Sub	1.00			3547.00	
Stubb	3.00			3550.00	42.00 Tool Interval
Packer	1.00			3551.00	
Stubb	1.00			3552.00	
Recorder	0.00	8679	Below	3552.00	
Change Over Sub	1.00			3553.00	
Drill Pipe	31.00			3584.00	
Change Over Sub	1.00			3585.00	
Perforations	15.00			3600.00	
Bullnose	3.00			3603.00	53.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>115.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O Farmer, Inc

**15-13s-17w Ellis,KS**

PO Box 352  
Russell KS 67665 + 2635

**Dreiling B #1**

Job Ticket: 48535

**DST#: 3**

ATTN: John O Farmer IV

Test Start: 2012.08.28 @ 18:00:16

## 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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

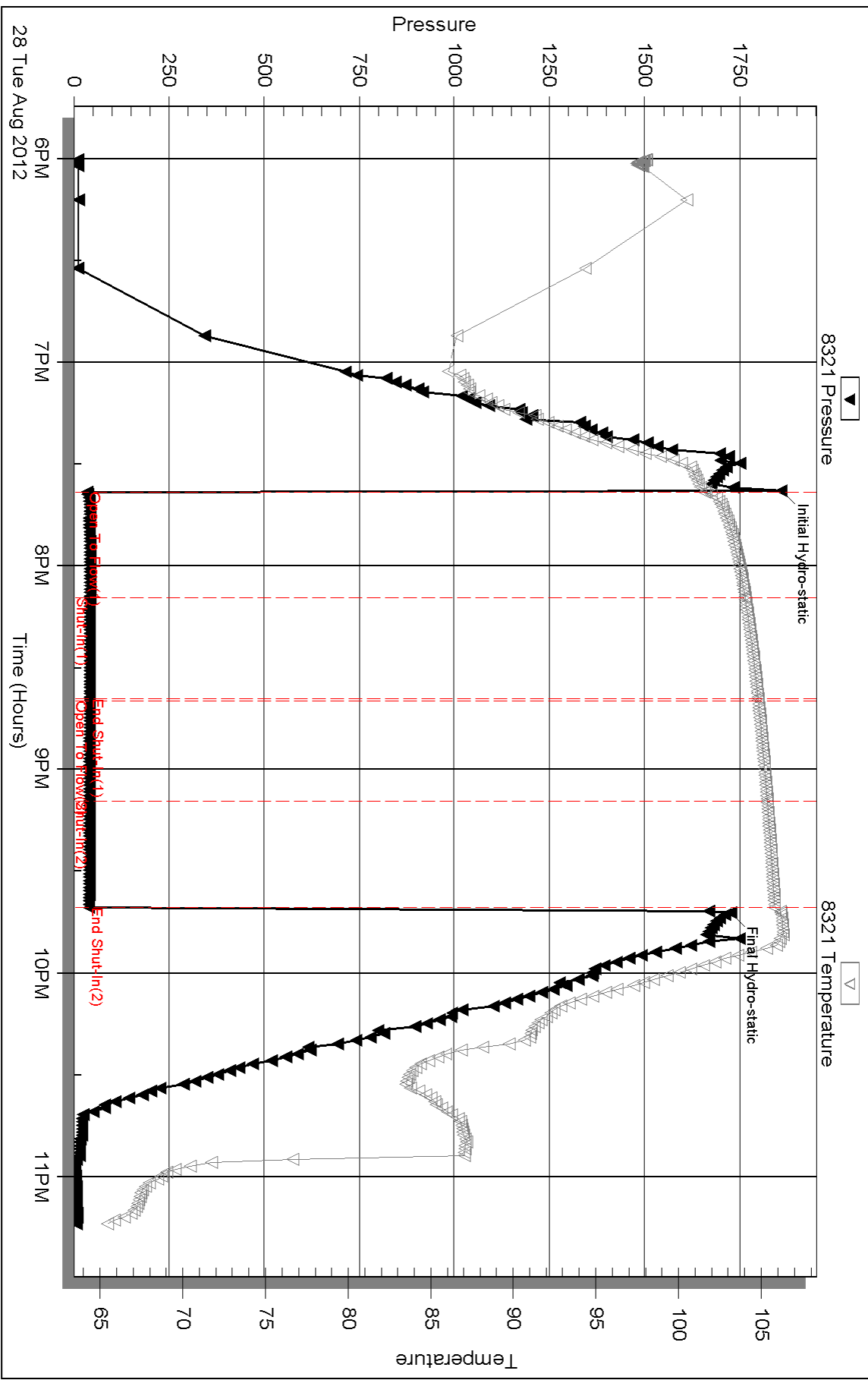
Serial #:

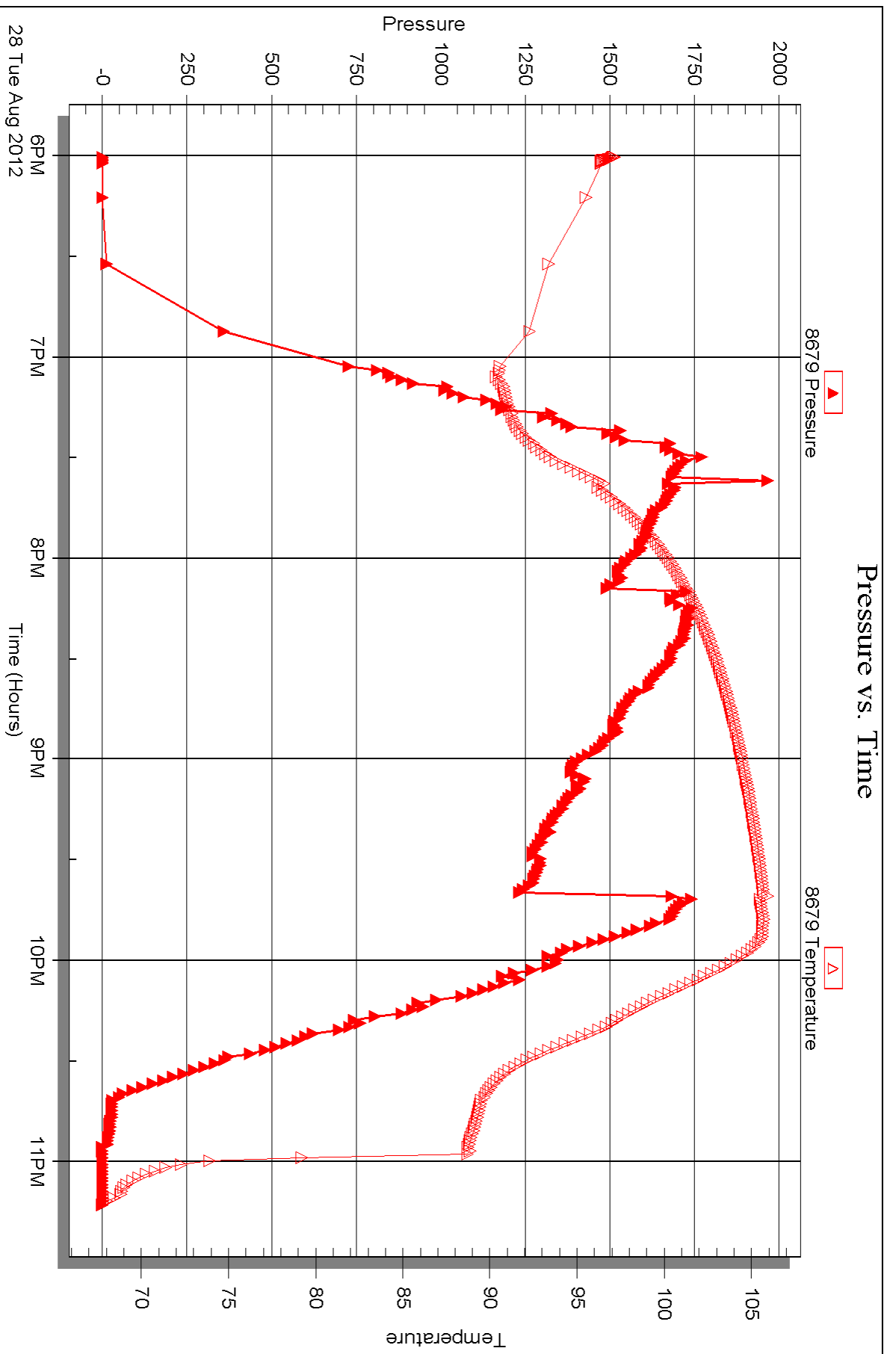
Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time



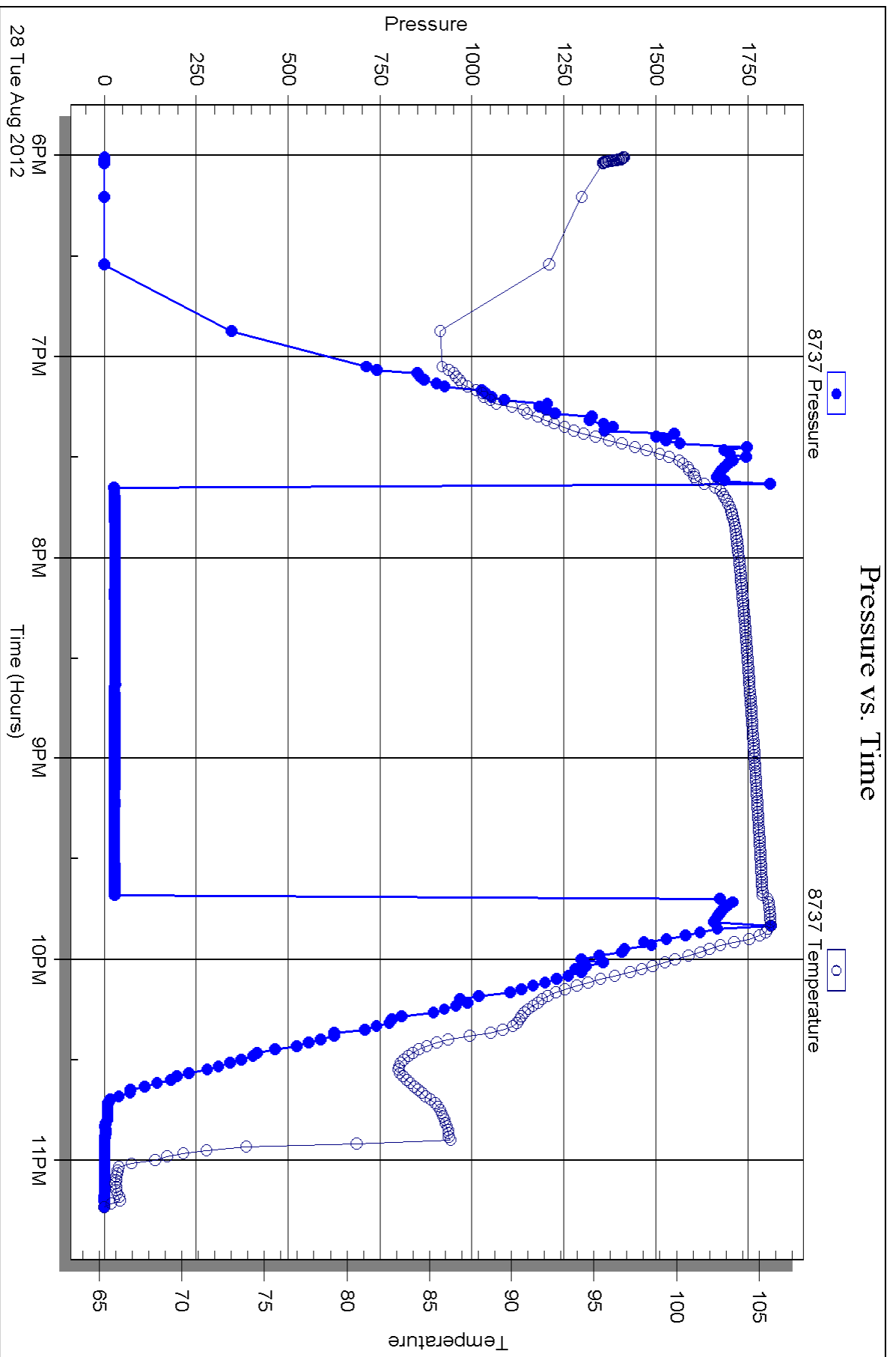


Serial #: 8737

Outside John O Farmer, Inc

Drilling B#1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 48535

Printed: 2012.08.30 @ 11:49:44





## DRILL STEM TEST REPORT

Prepared For: **John O Farmer, Inc**

PO Box 352  
Russell KS 67665 + 2635

ATTN: John O Farmer IV

### **Dreiling B #1**

#### **15-13s-17w Ellis,KS**

Start Date: 2012.08.29 @ 02:54:17

End Date: 2012.08.29 @ 10:07:47

Job Ticket #: 48536                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.08.30 @ 11:48:30



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

John O Farmer, Inc  
 PO Box 352  
 Russell KS 67665 + 2635  
 ATTN: John O Farmer IV

**15-13s-17w Ellis,KS**  
**Dreiling B #1**  
 Job Ticket: 48536 **DST#: 4**  
 Test Start: 2012.08.29 @ 02:54:17

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:55:47  
 Time Test Ended: 10:07:47  
 Interval: **3548.00 ft (KB) To 3570.00 ft (KB) (TVD)**  
 Total Depth: 3600.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Straddle (Reset)  
 Tester: Jeff Brown  
 Unit No: 44  
 Reference Elevations: 2003.00 ft (KB)  
 1995.00 ft (CF)  
 KB to GR/CF: 8.00 ft

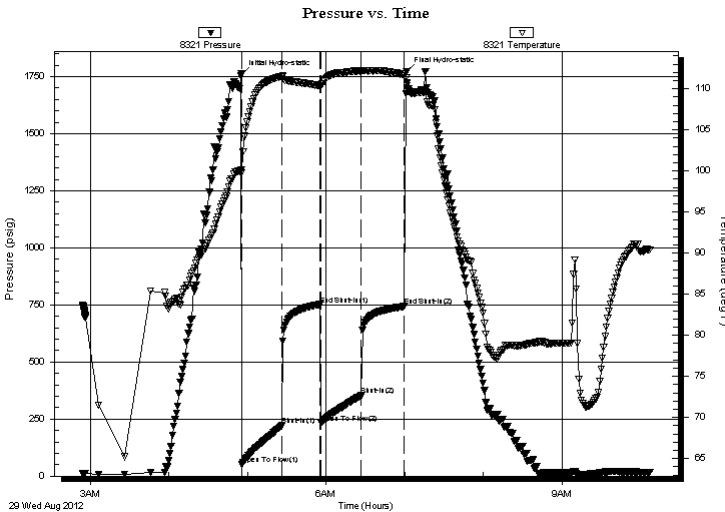
## Serial #: 8321

Inside

Press @ RunDepth: 352.72 psig @ 3551.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.08.29 End Date: 2012.08.29 Last Calib.: 2012.08.29  
 Start Time: 02:54:18 End Time: 10:06:47 Time On Btm: 2012.08.29 @ 04:55:17  
 Time Off Btm: 2012.08.29 @ 07:01:17

TEST COMMENT: IFP=Strong blow BOB in 4 1/2 min  
 ISI=Weak surface blow back died out in 20 min  
 FFP=Good blow BOB in 6 1/2 min  
 FSI=Weak surface blow back died out in 17 min

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1760.79	100.09	Initial Hydro-static
1	49.82	99.80	Open To Flow (1)
31	221.00	111.53	Shut-In(1)
60	751.94	110.38	End Shut-In(1)
61	234.08	110.27	Open To Flow (2)
92	352.72	112.16	Shut-In(2)
125	743.91	111.79	End Shut-In(2)
126	1773.02	111.36	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
630.00	MW with a scum of oil 5%M 95%W	8.55
63.00	SOCWM 5%O 40%W 55%M	0.88
57.00	OCWM 10%O 10%W 80%M	0.80
1.00	Free Oil	0.01

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

John O Farmer, Inc  
 PO Box 352  
 Russell KS 67665 + 2635  
 ATTN: John O Farmer IV

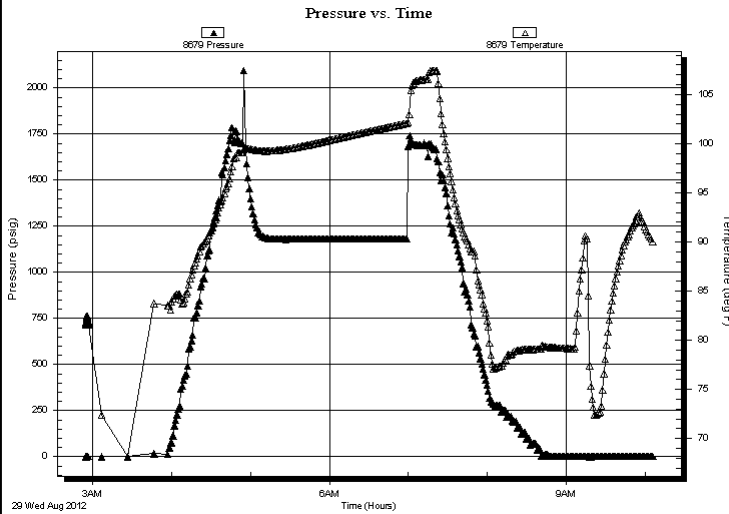
**15-13s-17w Ellis,KS**  
**Dreiling B #1**  
 Job Ticket: 48536 **DST#: 4**  
 Test Start: 2012.08.29 @ 02:54:17

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:55:47  
 Time Test Ended: 10:07:47  
 Interval: **3548.00 ft (KB) To 3570.00 ft (KB) (TVD)**  
 Total Depth: 3600.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Straddle (Reset)  
 Tester: Jeff Brown  
 Unit No: 44  
 Reference Elevations: 2003.00 ft (KB)  
 1995.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8679 Below (Straddle)**  
 Press @ Run Depth: psig @ 3574.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.08.29 End Date: 2012.08.29 Last Calib.: 2012.08.29  
 Start Time: 02:54:24 End Time: 10:05:53 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IFP=Strong blow BOB in 4 1/2 min  
 ISI=Weak surface blow back died out in 20 min  
 FFP=Good blow BOB in 6 1/2 min  
 FSI=Weak surface blow back died out in 17 min



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
630.00	MW with a scum of oil 5%M 95%W	8.55
63.00	SOCWM 5%O 40%W 55%M	0.88
57.00	OCWM 10%O 10%W 80%M	0.80
1.00	Free Oil	0.01

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

John O Farmer, Inc  
 PO Box 352  
 Russell KS 67665 + 2635  
 A T T N : John O Farmer IV

**15-13s-17w Ellis,KS**  
**Dreiling B #1**  
 Job Ticket: 48536      **DST#: 4**  
 Test Start: 2012.08.29 @ 02:54:17

**Tool Information**

Drill Pipe:	Length: 3515.00 ft	Diameter: 3.80 inches	Volume: 49.31 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 49.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3548.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	3570.00 ft			
Interval between Packers:	22.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
Change Over Sub	1.00			3529.00	
Shut In Tool	5.00			3534.00	
Hydraulic tool	5.00			3539.00	
Packer	4.00			3543.00	20.00 Bottom Of Top Packer
Packer	5.00			3548.00	
Stubb	1.00			3549.00	
Perforations	2.00			3551.00	
Recorder	0.00	8321	Inside	3551.00	
Recorder	0.00	8737	Outside	3551.00	
Perforations	15.00			3566.00	
Blank Off Sub	1.00			3567.00	
Stubb	3.00			3570.00	22.00 Tool Interval
Packer	1.00			3571.00	
Stubb	1.00			3572.00	
Perforations	2.00			3574.00	
Recorder	0.00	8679	Below	3574.00	
Perforations	23.00			3597.00	
Bullnose	3.00			3600.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 72.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O Farmer, Inc

**15-13s-17w Ellis,KS**

PO Box 352  
Russell KS 67665 + 2635

**Dreiling B #1**

Job Ticket: 48536

**DST#: 4**

ATTN: John O Farmer IV

Test Start: 2012.08.29 @ 02:54:17

## 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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
630.00	MW with a scum of oil 5%M 95%W	8.555
63.00	SOCWM 5%O 40%W 55%M	0.884
57.00	OCWM 10%O 10%W 80%M	0.800
1.00	Free Oil	0.014

Total Length: 751.00 ft

Total Volume: 10.253 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

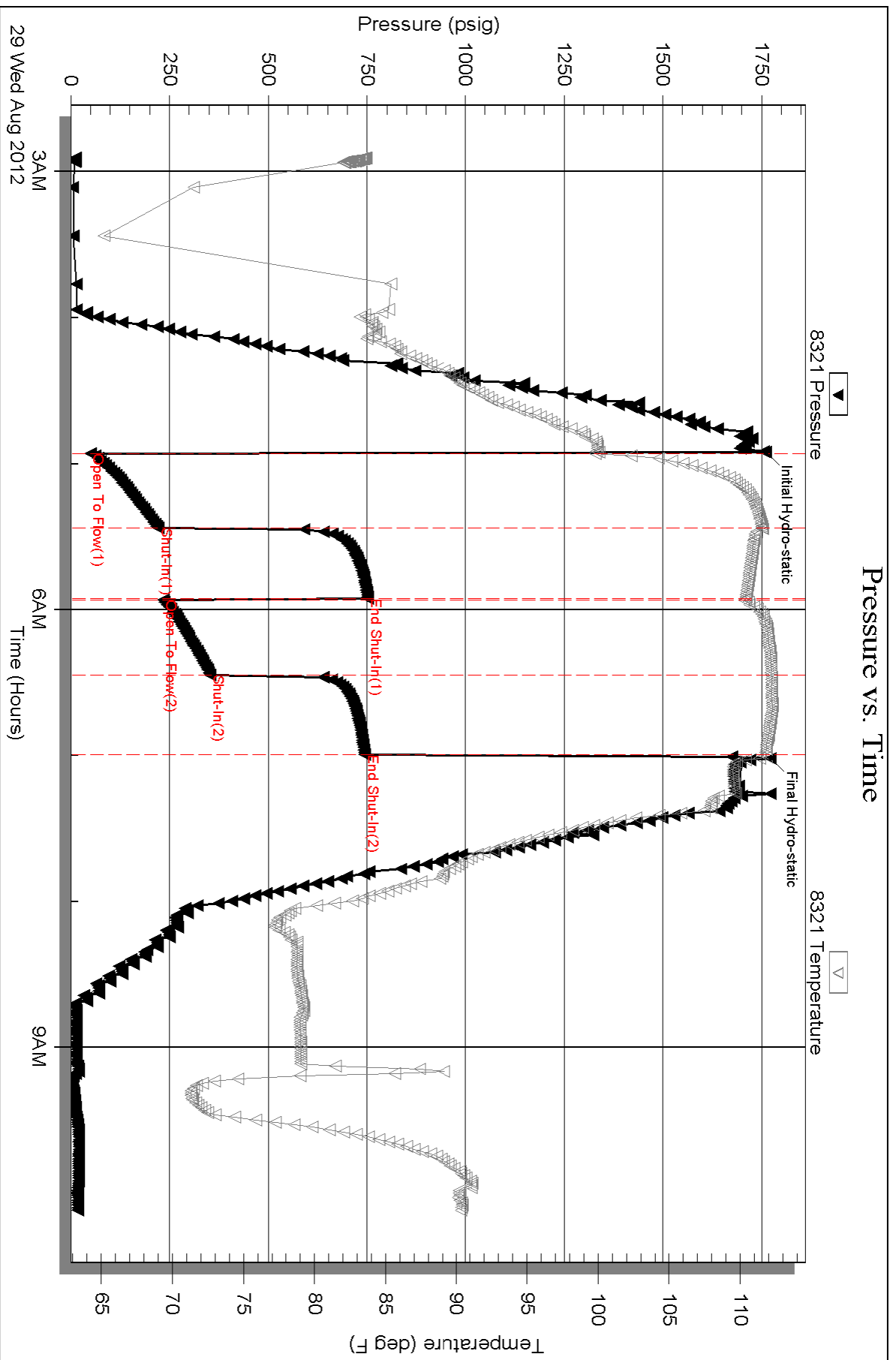
Serial #:

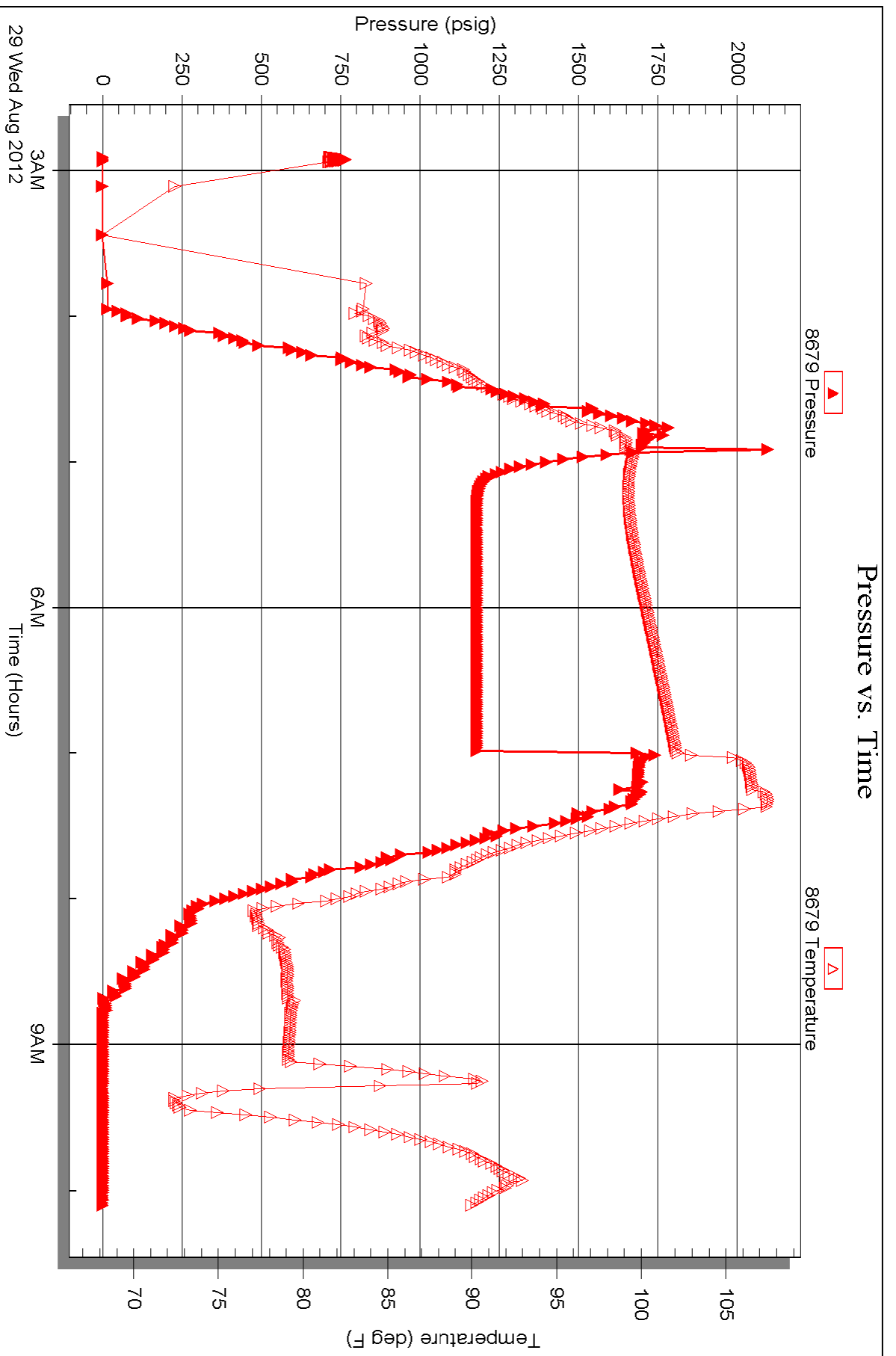
Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time







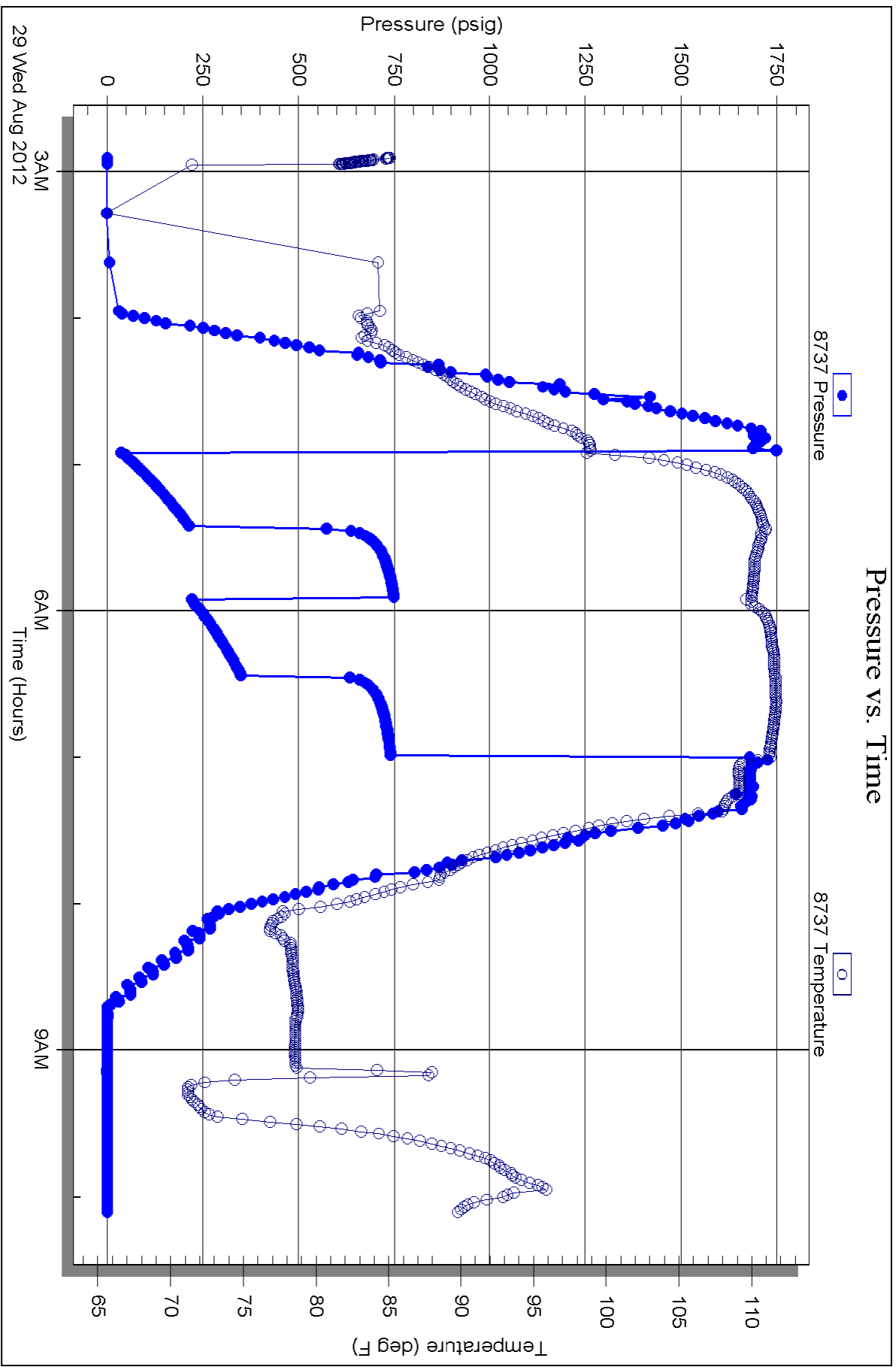
Serial #: 8737

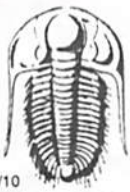
Outside

John O Farmer, Inc

Drilling B#1

DST Test Number: 4





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 48533

Well Name & No. Dreiling B #1 Test No. 1 Date 8-27-12  
 Company John D Farmer, INC Elevation 2003 KB 1995 GL  
 Address PO Box 352 Russell KS 67465 + 2635  
 Co. Rep / Geo. Austin Klaus Rig Discovery Rig #4  
 Location: Sec. 15 Twp. 13 S Rge. 17W Co. ELLis State KS

Interval Tested 3337-3358 Zone Tested LKC-E  
 Anchor Length 21 Drill Pipe Run 3299 Mud Wt. 8.7  
 Top Packer Depth 3332 Drill Collars Run 31 Vis 48  
 Bottom Packer Depth 3337 Wt. Pipe Run 0 WL 8.8  
 Total Depth 3358 Chlorides 2000 ppm System LCM 2  
 Blow Description FFP-Strong Blow BOB IN 2 1/2 min  
ISI-Dead NO Blow Back  
FFP-GOOD Blow BOB IN 44 min  
ISI-Dead NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>31</u>	<u>MUD WITH OIL SPOTS</u>				<u>100%</u>
<u>63</u>	<u>MW WITH OIL SPOTS</u>			<u>65%</u>	<u>35%</u>
	<u>283-GTP</u>				

Rec Total 94 BHT 105 Gravity \_\_\_\_\_ API RW .202 @ 69.9 °F Chlorides 36,000 ppm

(A) Initial Hydrostatic 1406  Test 1150 T-On Location 1:31  
 (B) First Initial Flow 59  Jars T-Started 2:23  
 (C) First Final Flow 58  Safety Joint T-Open 4:10  
 (D) Initial Shut-In 174  Circ Sub T-Pulled ~~6:40~~ 7:10  
 (E) Second Initial Flow 53  Hourly Standby T-Out 9:00  
 (F) Second Final Flow 47  Mileage 140 RT 24.80 Comments \_\_\_\_\_  
 (G) Final Shut-In 185  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1547  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Day Standby \_\_\_\_\_ Total 1174.80  
 Final Flow 400 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 400 30  Sub Total 1174.80

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.



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 48534

Well Name & No. Dreiling B #1 Test No. 2 Date 8-27-12  
 Company John O Farmer, INC Elevation 2003 KB 1995 GL  
 Address PO Box 352 Russell KS 6776605 + 2635  
 Co. Rep / Geo. AUSTIN Klags Rig Discovery Rig #4  
 Location: Sec. 15 Twp. 13S Rge. 17W Co. ELLIS State KS

Interval Tested 3355-3398 Zone Tested LKC-F-G  
 Anchor Length 43 Drill Pipe Run 3330 Mud Wt. 8.8  
 Top Packer Depth 3350 Drill Collars Run 31 Vis 43  
 Bottom Packer Depth 3355 Wt. Pipe Run 0 WL 8.8  
 Total Depth 3398 Chlorides 3000 ppm System LCM 2

Blow Description TP-weak surface blow died out in 20 min

IS-Dead NO Blow Back

FA-Dead NO Blow

BT-Dead NO Blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud with oil spots</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 5 BHT 101 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

- (A) Initial Hydrostatic 1422
- (B) First Initial Flow 29
- (C) First Final Flow 31
- (D) Initial Shut-In 177
- (E) Second Initial Flow 33
- (F) Second Final Flow 34
- (G) Final Shut-In 104
- (H) Final Hydrostatic 1569

- Test 1150
- Jars \_\_\_\_\_
- Safety Joint \_\_\_\_\_
- Circ Sub \_\_\_\_\_
- Hourly Standby \_\_\_\_\_
- Mileage 24.80
- Sampler \_\_\_\_\_
- Straddle \_\_\_\_\_
- Shale Packer \_\_\_\_\_
- Extra Packer \_\_\_\_\_
- Extra Recorder \_\_\_\_\_
- Day Standby \_\_\_\_\_
- Accessibility \_\_\_\_\_
- Sub Total 1174.80

- T-On Location 15:43
- T-Started 15:57
- T-Open 17:55
- T-Pulled 19:55
- T-Out 21:30
- Comments \_\_\_\_\_
- Ruined Shale Packer \_\_\_\_\_
- Ruined Packer \_\_\_\_\_
- Extra Copies \_\_\_\_\_
- Sub Total 0
- Total 1174.80
- MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 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.



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 48535

Well Name & No. Dreiling B #1 Test No. 3 Date 8-28-12  
 Company John O Farmer, INC Elevation 2003 KB 1995 GL  
 Address PO Box 352 Russell KS 67665 + 2635  
 Co. Rep / Geo. Austin Klaus Rig Discovery Rig # 4  
 Location: Sec. 15 Twp. 13S Rge. 17W Co. ELLIS State KS

Interval Tested 3508-3550 Zone Tested ARBeckle  
 Anchor Length 42' Anchor 53' Tail Drill Pipe Run 3437 Mud Wt. 9.0  
 Top Packer Depth 3503 Drill Collars Run 31 Vis 60  
 Bottom Packer Depth 3508 Wt. Pipe Run 0 WL 3.8  
 Total Depth 3603 Chlorides 2000 ppm System LCM 2  
 Blow Description FF-Weak Surface Blow BUILT TO 1 IN DIED BACK TO 3/4 IN  
ISI-Dead No Blow Back  
FF-Dead No Blow  
ESI-Dead No Blow Back

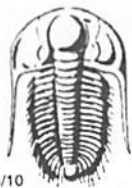
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MUD</u>			<u>100%</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 1060 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1859</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>17:32</u>
(B) First Initial Flow <u>34</u>	<input type="checkbox"/> Jars _____	T-Started <u>18:00</u>
(C) First Final Flow <u>42</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>19:39</u>
(D) Initial Shut-In <u>41</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>21:39</u>
(E) Second Initial Flow <u>41</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>23:14</u>
(F) Second Final Flow <u>41</u>	<input checked="" type="checkbox"/> Mileage <u>24.80</u>	Comments _____
(G) Final Shut-In <u>40</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1726</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1774.80</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1774.80</u>	

Approved By \_\_\_\_\_ Our Representative Jeff Blown

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.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 48536

Well Name & No. Drilling B #1 Test No. 4 Date 8-29-12  
 Company John O Farmer INC Elevation 2003 KB 1995 GL  
 Address PO Box 352 Russell KS 67265 + 2635  
 Co. Rep / Geo. Austin Klaus Rig Discovery Rig #4  
 Location: Sec. 15 Twp. 13S Rge. 17W Co. ELLIS State KS

Interval Tested 3548-3570 Zone Tested AR Buckle  
 Anchor Length 22' Anchor 30' Tail Drill Pipe Run 3515 Mud Wt. 9.0  
 Top Packer Depth 3543 Drill Collars Run 31 Vis 60  
 Bottom Packer Depth 3548 Wt. Pipe Run 0 WL 8.8  
 Total Depth 3600 Chlorides 2000 ppm System LCM 2  
 Blow Description FF-String Blow BOB IN 4 1/2 min  
ISI-Weak Surface Blow Back Died out IN 20 min  
FF-Load Blow BOB IN 2 1/2 min  
ISI-Weak Surface Blow Back Died out IN 17 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>630</u>	<u>Feet of MW with A scum of oil</u>			<u>95</u>	<u>5</u>
<u>63</u>	<u>Feet of SOCWm</u>		<u>5</u>	<u>40</u>	<u>55</u>
<u>57</u>	<u>Feet of OCWm</u>		<u>10</u>	<u>10</u>	<u>80</u>
<u>1</u>	<u>Feet of Free oil</u>				

Rec Total 751 BHT 112 Gravity \_\_\_\_\_ API RW 226 @ 80.9 °F Chlorides 27,000 ppm

(A) Initial Hydrostatic 1761  Test 1150 T-On Location 2:43  
 (B) First Initial Flow 50  Jars \_\_\_\_\_ T-Started 2:54  
 (C) First Final Flow 221  Safety Joint \_\_\_\_\_ T-Open 4:57  
 (D) Initial Shut-In 752  Circ Sub \_\_\_\_\_ T-Pulled 6:57  
 (E) Second Initial Flow 234  Hourly Standby \_\_\_\_\_ T-Out 10:07  
 (F) Second Final Flow 353  Mileage 24.80 Comments \_\_\_\_\_  
 (G) Final Shut-In 744  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1773  Straddle 600  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1774.80  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1774.80

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.



# Discovery Drilling

P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

## DRILLER'S LOG

Operator: John O. Farmer, Inc. Lic# 5135 Contractor: Discovery Drilling Co., Inc. LIC#31548  
370 West Wichita Avenue - P.O. Box 352 PO Box 763  
Russell, KS 67665 Hays, KS 67601

Lease: Dreiling "B" # 1 Location: NE-SW-SW-SE  
Section 15/ 13S/ 17W  
Ellis County, KS

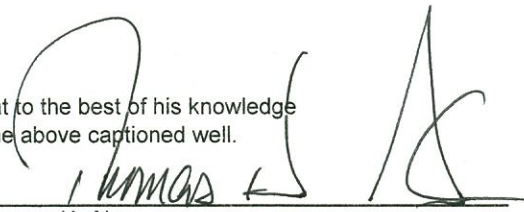
Loggers Total Depth: 3603' API#15- 051-26,355-00-00  
 Rotary Total Depth: 3600' Elevation: 1995 GL 2003 KB  
 Commenced: 8/23/2012 Completed: 8/29/2012  
 Casing: 8 5/8" @ 226.29'W/17.0sks Status: D & A

### DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	<u>0'</u>	Shale	<u>1244'</u>
Dakota Sand	<u>563'</u>	Shale & Lime	<u>1838'</u>
Shale	<u>606'</u>	Shale	<u>2164'</u>
Cedar Hill Sand	<u>681'</u>	Shale & Lime	<u>2620'</u>
Red Bed Shale	<u>861'</u>	Lime & Shale	<u>3276'</u>
Anhydrite	<u>1200'</u>	RTD	<u>3600'</u>
Base Anhydrite	<u>1244'</u>		

STATE OF KANSAS )  
 ) ss  
 COUNTY OF ELLIS )

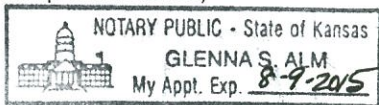
Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.

  
 Thomas H. Alm

Subscribed and sworn to before me on 8-30-12

My Commission expires: 8-9-2015

(Place stamp or seal below)



  
 Notary Public

# ALLIED OIL & GAS SERVICES, LLC 056509

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Russell KS

DATE <u>8-23-12</u>	SEC. <u>15</u>	TWP. <u>13</u>	RANGE <u>17</u>	CALLED OUT	ON LOCATION	JOB START <u>2:00 pm</u>	JOB FINISH <u>3:30 pm</u>
LEASE <u>Drilling B</u>	WELL # <u>1</u>	LOCATION <u>Victoria KS 3rd 2 1/2 W 1/4 into</u>			COUNTY <u>Ellis</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Discovery #4 OWNER \_\_\_\_\_

TYPE OF JOB surface

HOLE SIZE 12 1/4 T.D. 225 CEMENT \_\_\_\_\_

CASING SIZE 8 7/8 2 3/4 DEPTH 226.29 AMOUNT ORDERED 170 con 320 cc 29 gal

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT 15'

CEMENT LEFT IN CSG. 15'

PERFS. \_\_\_\_\_

DISPLACEMENT 13 1/4 bbl

COMMON	<u>170</u>	@ <u>16.25</u>	<u>\$2762.50</u>
POZMIX		@	
GEL	<u>23</u>	@ <u>2.125</u>	<u>63.75</u>
CHLORIDE	<u>6</u>	@ <u>58.20</u>	<u>349.20</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>183.51 FT<sup>3</sup></u>	@ <u>2.10</u>	<u>385.37</u>
MILEAGE	<u>117.32</u>	@ <u>2.35</u>	<u>275.70</u>
			<u>TOTAL 3836.52</u>

EQUIPMENT

PUMP TRUCK CEMENTER Robert V Bob S

# 417 HELPER Woody O

BULK TRUCK

# 416 DRIVER Kevin R.

BULK TRUCK

# DRIVER

REMARKS:

run 5 jts of new 8 7/8 2 3/4 casing receive circulation mix 170 sts con 320 cc 29 gal displace 13 1/4 bbl of water shut in wash up

Cement circulate

SERVICE

DEPTH OF JOB	<u>230</u>	
PUMP TRUCK CHARGE	<u>1125.00</u>	
EXTRA FOOTAGE	@	
MILEAGE <u>14 LVM</u>	@ <u>4.00</u>	<u>56.00</u>
MANIFOLD	@	
<u>14 HVML</u>	@ <u>7.00</u>	<u>98.00</u>
	@	

CHARGE TO: John O'Farmer

STREET \_\_\_\_\_

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

5115.52  
-1023.10 20% discount TOTAL 1279.00  
4092.42

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL 0

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) 200.05

TOTAL CHARGES 5115.52

DISCOUNT 20% 1152.01 IF PAID IN 30 DAYS

PRINTED NAME \_\_\_\_\_

SIGNATURE [Signature]

Net 3963.51 BS 8-24 before tax

# ALLIED OIL & GAS SERVICES, LLC 053783

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Cement Pencil

DATE <u>8/24/12</u>	SEC. <u>15</u>	TWP. <u>13</u>	RANGE <u>17W</u>	CALLED OUT	ON LOCATION <u>11</u>	JOB START <u>7:30</u>	JOB FINISH <u>4:30</u>
LEASE <u>Discourt B</u>			WELL# <u>1</u>	LOCATION <u>Victoria 15 4 2 1/2 W north into</u>		COUNTY <u>Ellis</u>	STATE <u>Ks</u>
OLD OR NEW (Circle one) <span style="float: right;">2-03 <span style="margin-left: 20px;">3 bill</span></span>							

CONTRACTOR Discourt Drilling  
 TYPE OF JOB Rekey Plug  
 HOLE SIZE 12 1/2 T.D.  
 CASING SIZE 8 5/8 DEPTH  
 TUBING SIZE DEPTH  
 DRILL PIPE 4 1/2 DEPTH 3500  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. All  
 PERFS.  
 DISPLACEMENT fresh water

OWNER  
 CEMENT  
 AMOUNT ORDERED 60% class & 40% for 496 gal 3/4 flow seal  
245.54  
 COMMON 147 @ 14.25 2,388.75  
 POZMIX 98 @ 8.50 833.00  
 GEL 8 @ 21.25 170.00  
 CHLORIDE @  
 ASC @  
Flow Seal 62 @ 2.70 167.40  
 @  
 @  
 @  
 @  
 @  
 @  
 HANDLING 262.45 @ 2.10 551.16  
 MILEAGE 10.94 x 148 2.35 360.58  
153.43 TOTAL 4,470.87

EQUIPMENT  
 PUMP TRUCK CEMENTER Dustin Chambers 1  
 # 392 HELPER Josh Isaac  
 BULK TRUCK  
 # 344-170 DRIVER Alan Generous 3  
 BULK TRUCK  
 # DRIVER

REMARKS:

<u>fill hole with rig mud</u>	
<u>1 3500 @ 2.55 \$8925</u>	
<u>2 1250 25</u>	
<u>3 725 100</u>	
<u>4 275 40</u>	
<u>5 @ 100 10</u>	
<u>RH 30</u>	
<u>MH 15</u>	
<u>Plug Down 4:15</u>	

CHARGE TO: SD fence oil co  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE  
 DEPTH OF JOB 3500  
 PUMP TRUCK CHARGE 1250.00  
 EXTRA FOOTAGE @  
 MILEAGE Hum 14 @ 7.00 98.00  
 MANIFOLD @  
Lum 14 @ 4.00 56.00  
 @  
 TOTAL 1404.00

PLUG & FLOAT EQUIPMENT  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_

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 X  
 SIGNATURE Michael Smith  
Thank you!!!

TOTAL \_\_\_\_\_  
 SALES TAX (if Any) 370.11  
 TOTAL CHARGES 5,874.89  
25% DISCOUNT 1,468.72 IF PAID IN 30 DAYS  
4,406.17