



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1113222  
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: \_\_\_\_\_



1113222

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

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

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

<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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	Brenner B 6
Doc ID	1113222

All Electric Logs Run

Compensated Density Neutron Log
Dual Induction Log
Micro Resistivity Log
Cement Bond Log

Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	Brenner B 6
Doc ID	1113222

Tops

Name	Top	Datum
Anhydrite	1477'	(+716)
Heebner	3484'	(-1291)
Toronto	3507'	(-1314)
Lansing	3524'	(-1331)
Base/KC	3773'	(-1580)
Marmaton	3853'	(-1660)
Upper Conglomerate	3924'	(-1731)
Lower Conglomerate	3940'	(-1747)
L.T.D.	4010'	(-1817)

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

February 04, 2013

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

Re: ACO1  
API 15-195-22830-00-00  
Brenner B 6  
NE/4 Sec.13-15S-21W  
Trego 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

# ALLIED OIL & GAS SERVICES, LLC 056570

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Russell KS

DATE <u>11-5-12</u>	SEC. <u>13</u>	TWP. <u>15</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30am</u>	JOB FINISH <u>12:00AM</u>
LEASE <u>Brunner</u>	WELL# <u>B-6</u>	LOCATION <u>Ellis K 10S2W 15 Winto</u>			COUNTY <u>Tracy</u>	STATE <u>KS</u>	
OLD OR (NEW) (Circle one)							

CONTRACTOR WW 8 OWNER \_\_\_\_\_  
 TYPE OF JOB surface  
 HOLE SIZE 12 1/4 T.D. 218  
 CASING SIZE 8 5/8 23" DEPTH 223.13  
 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

CEMENT AMOUNT ORDERED 160 com 390cc 290cc

COMMON	<u>160</u>	@ <u>17.90</u>	<u>2864.00</u>
POZMIX		@	
GEL	<u>3</u>	@ <u>23.40</u>	<u>70.20</u>
CHLORIDE	<u>6</u>	@ <u>64.00</u>	<u>384.00</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>173.51</u>	@ <u>2.48</u>	<u>430.31</u>
MILEAGE	<u>276.85</u>	@ <u>2.60</u>	<u>719.81</u>
			TOTAL <u>4468.32</u>

EQUIPMENT  
 PUMP TRUCK CEMENTER Robert Y  
 # 417 HELPER Woody O  
 BULK TRUCK  
 # 410 DRIVER Kerry T  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

REMARKS:  
ran 5 jts of new 8 5/8 23" csg. receive circulation mix 160 com 390cc 290cc / displac 13 1/4 bbl of water shot in

cement did circulate to surface

*Thank you!!*

CHARGE TO: John O'Farmer  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

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

PRINTED NAME John O'Farmer  
 SIGNATURE [Signature]

SERVICE

DEPTH OF JOB	<u>218</u>
PUMP TRUCK CHARGE	<u>1512.25</u>
EXTRA FOOTAGE	@
MILEAGE	<u>35</u> <u>HVMI</u> @ <u>7.70</u> <u>269.50</u>
MANIFOLD	@
	<u>35</u> <u>LVMI</u> @ <u>4.40</u> <u>154.00</u>
	@
TOTAL <u>1935.25</u>	

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL _____		

SALES TAX (If Any) 225.63  
 TOTAL CHARGES 6404.07  
 DISCOUNT 1748.31 IF PAID IN 30 DAYS  
net 4655.76 11-6-12  
before Tax BS

**JOB LOG**

**SWIFT Services, Inc.**

DATE 11-11-12 PAGE NO.

CUSTOMER John O Farmer WELL NO. 6 LEASE Bremner B JOB TYPE 5 1/2 long string TICKET NO. 22918

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0600							On location Laying Down Drill Pipe
								TD 4010 SS 19'
								FP 4010 PC 1475' 20#60
								Insert 3991' 5 1/2 X 14#
								centralizers 1,3,4,6,8,10,12,59
								Basket 2, 60 Scratchers 105'
	0900							Start 5 1/2 Casing
	1045							Drop Ball Break circulation Rotate
	1115		7					Plug Rat hole 30 sks
	1120	5	12			✓	300	Start Mud Flush
		5	20			✓	300	Start KCL Flush
	1125	5	35			✓	300	Start Cement (145 sks EA2)
	1144							Wash out Pump + Lines
	1145							Drop Plug
	1145	5				✓		Displace Plug
	1200		97.3			✓	1500	Land Plug
								Release PSF Dry
								wash up / Rack up
	1230							Job Complete Thank You Josh, Brian, Isaac

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 6262

Date	11-28-12	Sec.		Twp.		Range		County	TREGO	State	KANSAS	On Location		Finish	10:00 AM
Lease								Location		ELITS STO GRANTS VILLA - 2W - 1/4S - W/INTO					
BRENNER "B"								Well No. #		L0					
Contractor								Owner		J.O. FARMER					
J & M								To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Type Job								Charge To							
PORT COLLAR								J.O. FARMER							
Hole Size								T.D.							
7 7/8"															
Csg.								Depth							
5 1/2"								Street							
Tbg. Size								City							
2 7/8"								RUSSELL, State KS, 67665							
Tool								Depth							
PORT COLLAR								1468'							
Cement Left in Csg.								Shoe Joint							
								Cement Amount Ordered 250 QMDC 1/4 Flow							
Meas Line								Displace							
								200 USED 10 gal ON SIDE							
EQUIPMENT												Common			
Pumptrk #15		No.		Cementer				Poz. Mix							
				Helper		NICK									
Bulktrk #8		No.		Driver				Gel.							
				Driver		HEATH									
Bulktrk P/W		No.		Driver				Calcium							
				Driver		CTECO									
JOB SERVICES & REMARKS												Hulls			
Remarks:												Salt			
Rat Hole												Flowseal 60#			
Mouse Hole												Kol-Seal			
Centralizers												Mud CLR 48			
Baskets												CFL-117 or CD110 CAF 38			
D/V or Port Collar												Sand			
TESTED TOOL TO 1,000 LBS 10 gal												Handling 230			
ESTABLISHED CIRCULATION MIXED 7												Mileage			
AND PUMPED 200 SKS CEMENT -												FLOAT EQUIPMENT			
DISPLACED - CLOSED TOOL TESTED												Guide Shoe			
TO 1,000 LBS - RAN 3 JOINTS - WASHED												Centralizer			
OUT TWO FLAGS												Baskets			
												AFU Inserts			
												Float Shoe			
												Latch Down			
												Pumptrk Charge port Collar			
												Mileage 31			
THANK YOU &												Tax			
												Discount			
												Total Charge			
X Signature															





## DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352  
Russell KS 67665-2635

ATTN: John O Farmer IV

### **Brenner B #6**

### **13-15s-21w Trego,KS**

Start Date: 2012.11.09 @ 20:10:41

End Date: 2012.11.10 @ 03:20:05

Job Ticket #: 48592                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.19 @ 15:00:41



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**13-15s-21w Trego,KS**  
**Brenner B #6**  
Job Ticket: 48592      **DST#: 1**  
Test Start: 2012.11.09 @ 20:10:41

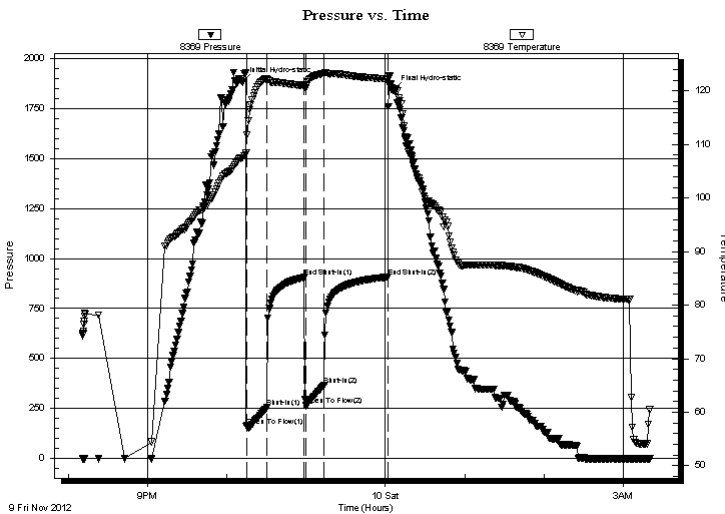
## GENERAL INFORMATION:

Formation: **Congl Sd**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 22:14:36  
Time Test Ended: 03:20:05  
Interval: **3915.00 ft (KB) To 3936.00 ft (KB) (TVD)**  
Total Depth: 3936.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Ray Schwager  
Unit No: 42  
Reference Elevations: 2193.00 ft (KB)  
2188.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8369      Inside**  
Press @ Run Depth: 366.08 psig @ 3916.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.11.09      End Date: 2012.11.10      Last Calib.: 2012.11.10  
Start Time: 20:10:41      End Time: 03:20:05      Time On Btm: 2012.11.09 @ 22:11:36  
Time Off Btm: 2012.11.10 @ 00:06:36

**TEST COMMENT:** 15-IFP-strg bl in 3 min  
30-ISIP-1/2" bl bk  
15-FFP-strg bl in 3 min  
45-FSIP-1" bl bk

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1881.51	107.55	Initial Hydro-static
3	159.75	108.36	Open To Flow (1)
19	255.18	122.37	Shut-In(1)
47	905.75	120.92	End Shut-In(1)
48	264.78	120.41	Open To Flow (2)
62	366.08	123.31	Shut-In(2)
110	906.92	122.20	End Shut-In(2)
115	1844.33	120.13	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	Water	0.65
124.00	O&GCW 10%G10%O80%W	1.74
560.00	CO	7.86
140.00	MGO 10%G30%M60%O	1.96
0.00	175'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

**13-15s-21w Trego,KS**

PO Box 352  
Russell KS 67665-2635

**Brenner B #6**

Job Ticket: 48592

**DST#: 1**

ATTN: John O Farmer IV

Test Start: 2012.11.09 @ 20:10:41

## Tool Information

Drill Pipe:	Length: 3790.00 ft	Diameter: 3.80 inches	Volume: 53.16 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 53.75 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3915.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	21.00 ft				
Tool Length:	49.00 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			3888.00	
Shut In Tool	5.00			3893.00	
Hydraulic tool	5.00			3898.00	
Jars	5.00			3903.00	
Safety Joint	2.00			3905.00	
Packer	5.00			3910.00	28.00 Bottom Of Top Packer
Packer	5.00			3915.00	
Stubb	1.00			3916.00	
Recorder	0.00	8369	Inside	3916.00	
Recorder	0.00	8700	Outside	3916.00	
Perforations	17.00			3933.00	
Bullnose	3.00			3936.00	21.00 Bottom Packers & Anchor

**Total Tool Length: 49.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O Farmer Inc

**13-15s-21w Trego,KS**

PO Box 352  
Russell KS 67665-2635

**Brenner B #6**

Job Ticket: 48592

**DST#: 1**

ATTN: John O Farmer IV

Test Start: 2012.11.09 @ 20:10:41

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

48000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	Water	0.646
124.00	O&GCW 10%G10%O80%W	1.739
560.00	CO	7.855
140.00	MGO 10%G30%M60%O	1.964
0.00	175'GIP	0.000

Total Length: 948.00 ft      Total Volume: 12.204 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

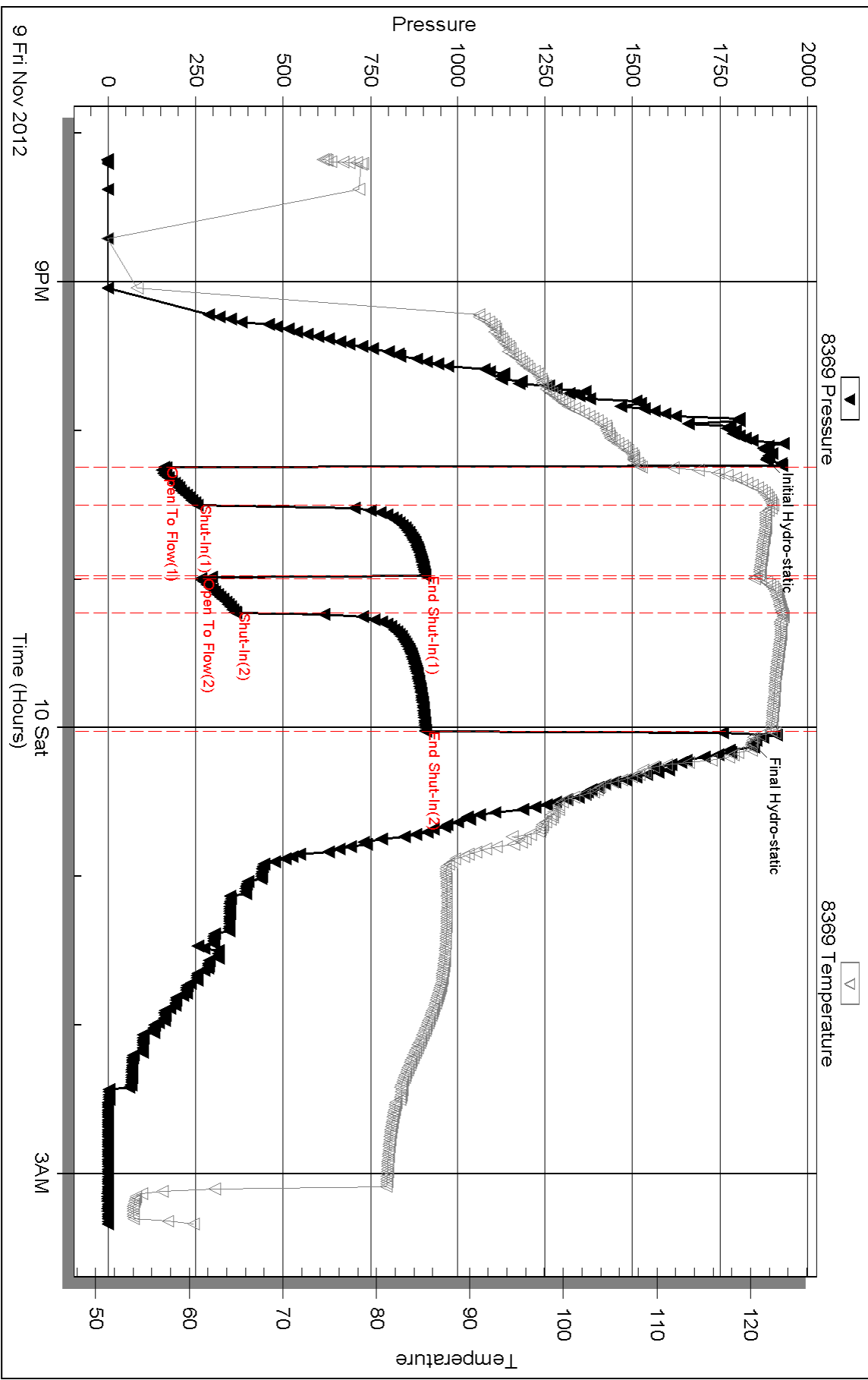
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .18 @ 60F

# Pressure vs. Time



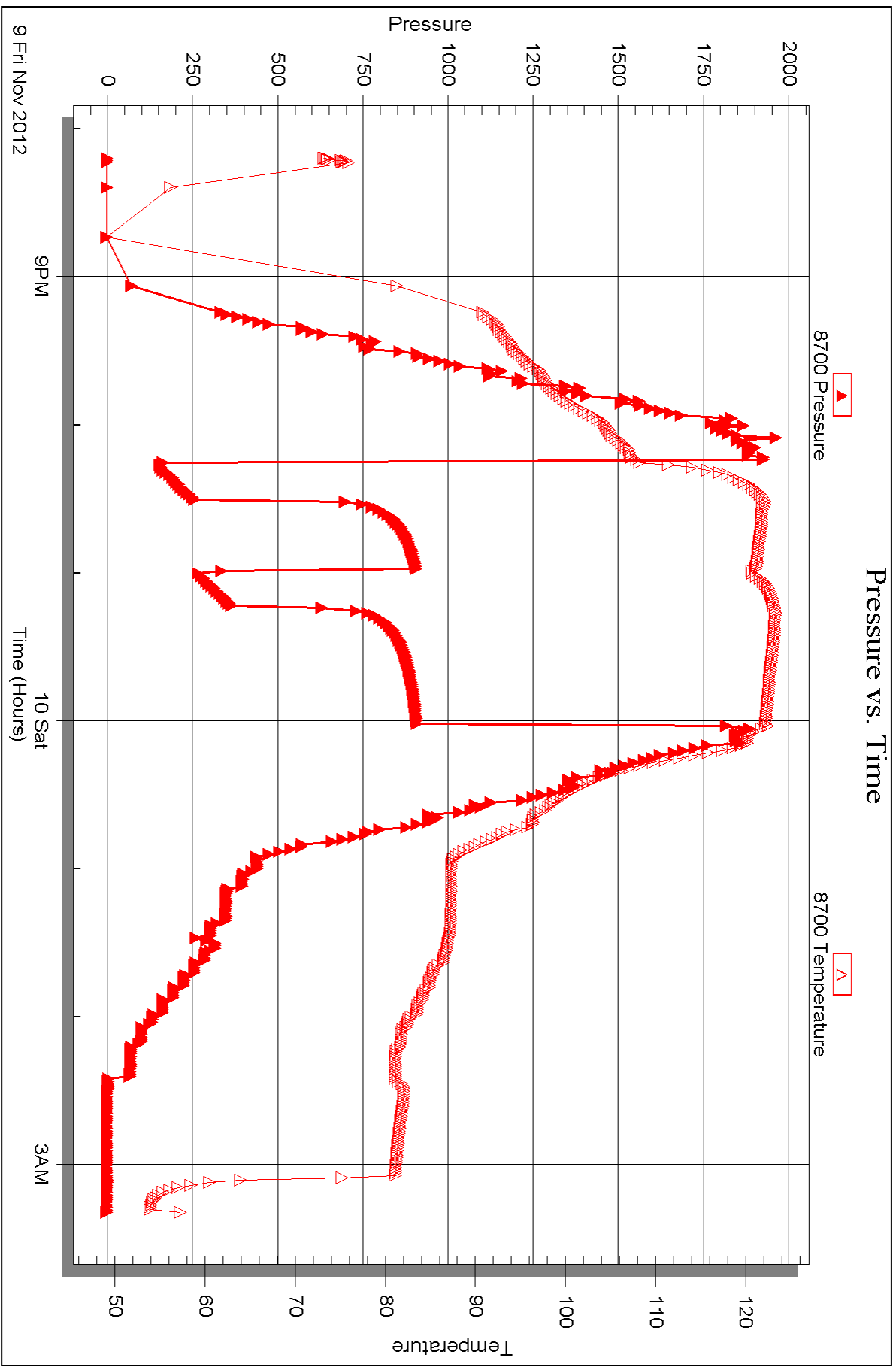
Serial #: 8700

Outside

John O Farmer Inc

Brenner B #6

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352  
Russell KS 67665-2635

ATTN: John O Farmer IV

### **Brenner B #6**

### **13-15s-21w Trego,KS**

Start Date: 2012.11.10 @ 09:15:15

End Date: 2012.11.10 @ 15:01:39

Job Ticket #: 48593                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.19 @ 14:59:42





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**13-15s-21w Trego,KS**  
**Brenner B #6**  
 Job Ticket: 48593      **DST#: 2**  
 Test Start: 2012.11.10 @ 09:15:15

## GENERAL INFORMATION:

Formation: **Congl Sd**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 10:53:10  
 Tester: Ray Schwager  
 Time Test Ended: 15:01:39  
 Unit No: 42  
 Interval: **3942.00 ft (KB) To 3960.00 ft (KB) (TVD)**  
 Reference Elevations: 2193.00 ft (KB)  
 Total Depth: 3960.00 ft (KB) (TVD)  
 2188.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 5.00 ft

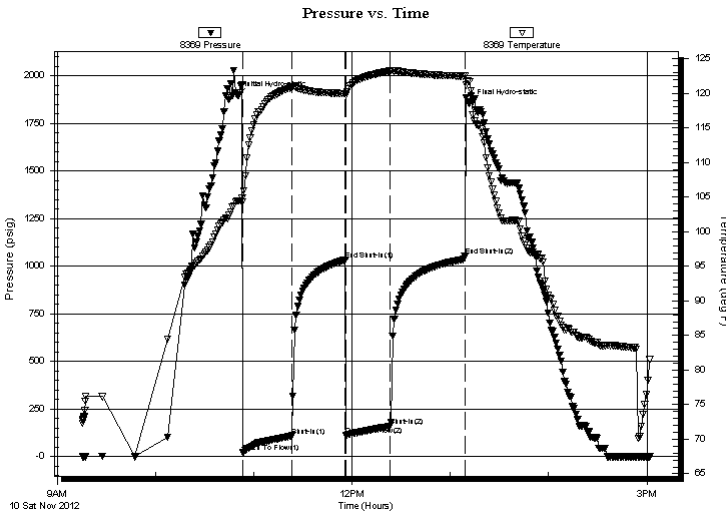
## Serial #: 8369

Inside

Press @ Run Depth: 159.90 psig @ 3943.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2012.11.10      End Date: 2012.11.10      Last Calib.: 2012.11.10  
 Start Time: 09:15:15      End Time: 15:01:39      Time On Btm: 2012.11.10 @ 10:50:10  
 Time Off Btm: 2012.11.10 @ 13:11:40

TEST COMMENT: 30-IFP-w k to a gd bl 1/2" to 7" bl  
 30-ISIP-no bl  
 30-FFP-w k to a gd bl surface to 7" bl  
 45-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1898.34	104.44	Initial Hydro-static
3	21.00	104.31	Open To Flow (1)
33	108.94	120.87	Shut-In(1)
66	1032.45	119.97	End Shut-In(1)
66	112.37	119.74	Open To Flow (2)
93	159.90	123.22	Shut-In(2)
139	1052.62	122.52	End Shut-In(2)
142	1854.55	121.72	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
240.00	Water	2.27
90.00	MW 15%M 85%W	1.26
1.00	CO	0.01

\* 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

**13-15s-21w Trego,KS**

PO Box 352  
Russell KS 67665-2635

**Brenner B #6**

Job Ticket: 48593

**DST#: 2**

ATTN: John O Farmer IV

Test Start: 2012.11.10 @ 09:15:15

## Tool Information

Drill Pipe:	Length: 3810.00 ft	Diameter: 3.80 inches	Volume: 53.44 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 54.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3942.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	46.00 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			3915.00	
Shut In Tool	5.00			3920.00	
Hydraulic tool	5.00			3925.00	
Jars	5.00			3930.00	
Safety Joint	2.00			3932.00	
Packer	5.00			3937.00	28.00 Bottom Of Top Packer
Packer	5.00			3942.00	
Stubb	1.00			3943.00	
Recorder	0.00	8369	Inside	3943.00	
Recorder	0.00	8700	Outside	3943.00	
Perforations	14.00			3957.00	
Bullnose	3.00			3960.00	18.00 Bottom Packers & Anchor

**Total Tool Length: 46.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O Farmer Inc

**13-15s-21w Trego,KS**

PO Box 352  
Russell KS 67665-2635

**Brenner B #6**

Job Ticket: 48593

**DST#: 2**

ATTN: John O Farmer IV

Test Start: 2012.11.10 @ 09:15:15

## 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:

46000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	Water	2.273
90.00	MW 15%M 85%W	1.262
1.00	CO	0.014

Total Length: 331.00 ft      Total Volume: 3.549 bbl

Num Fluid Samples: 0

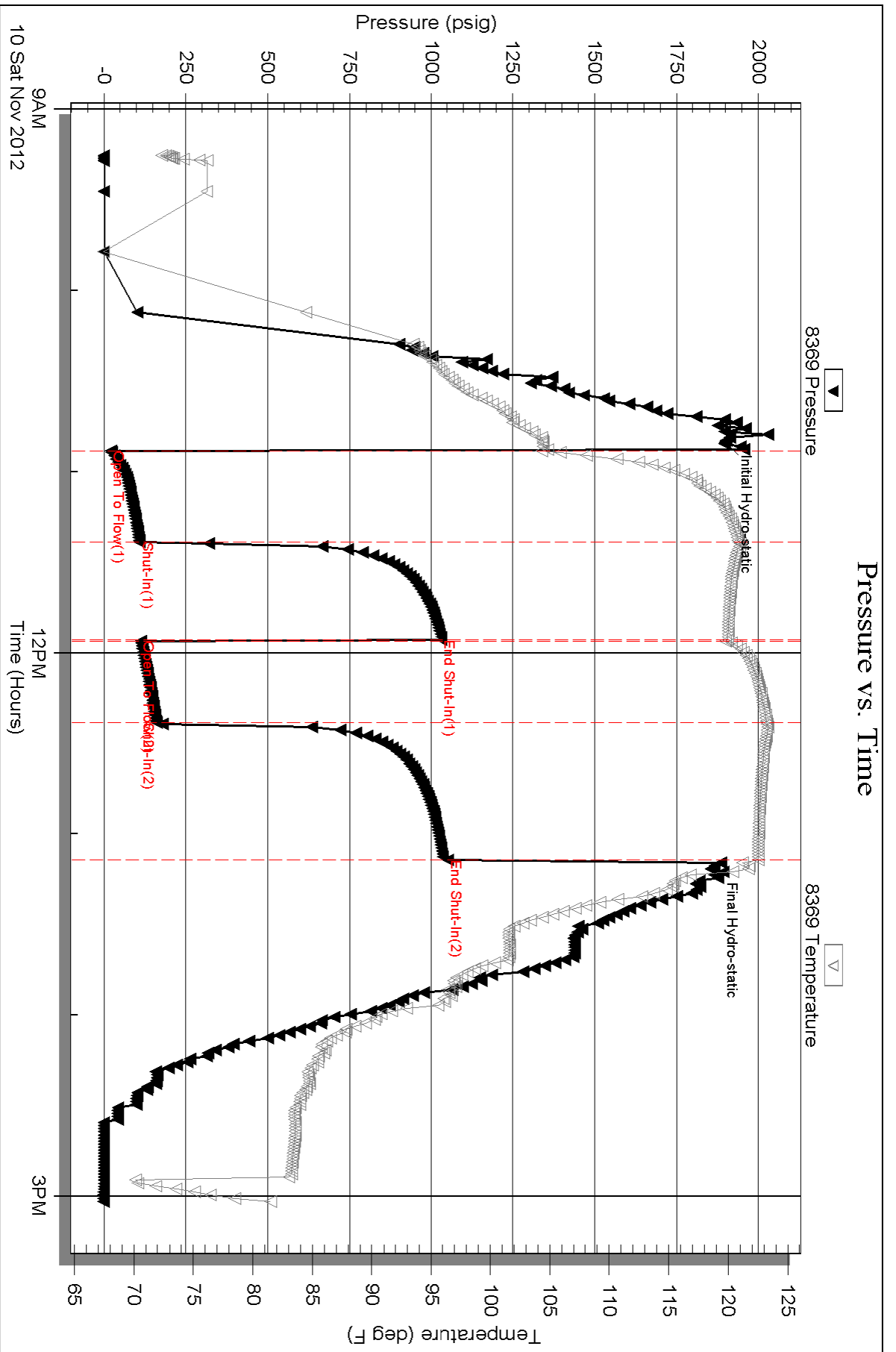
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .16@70F

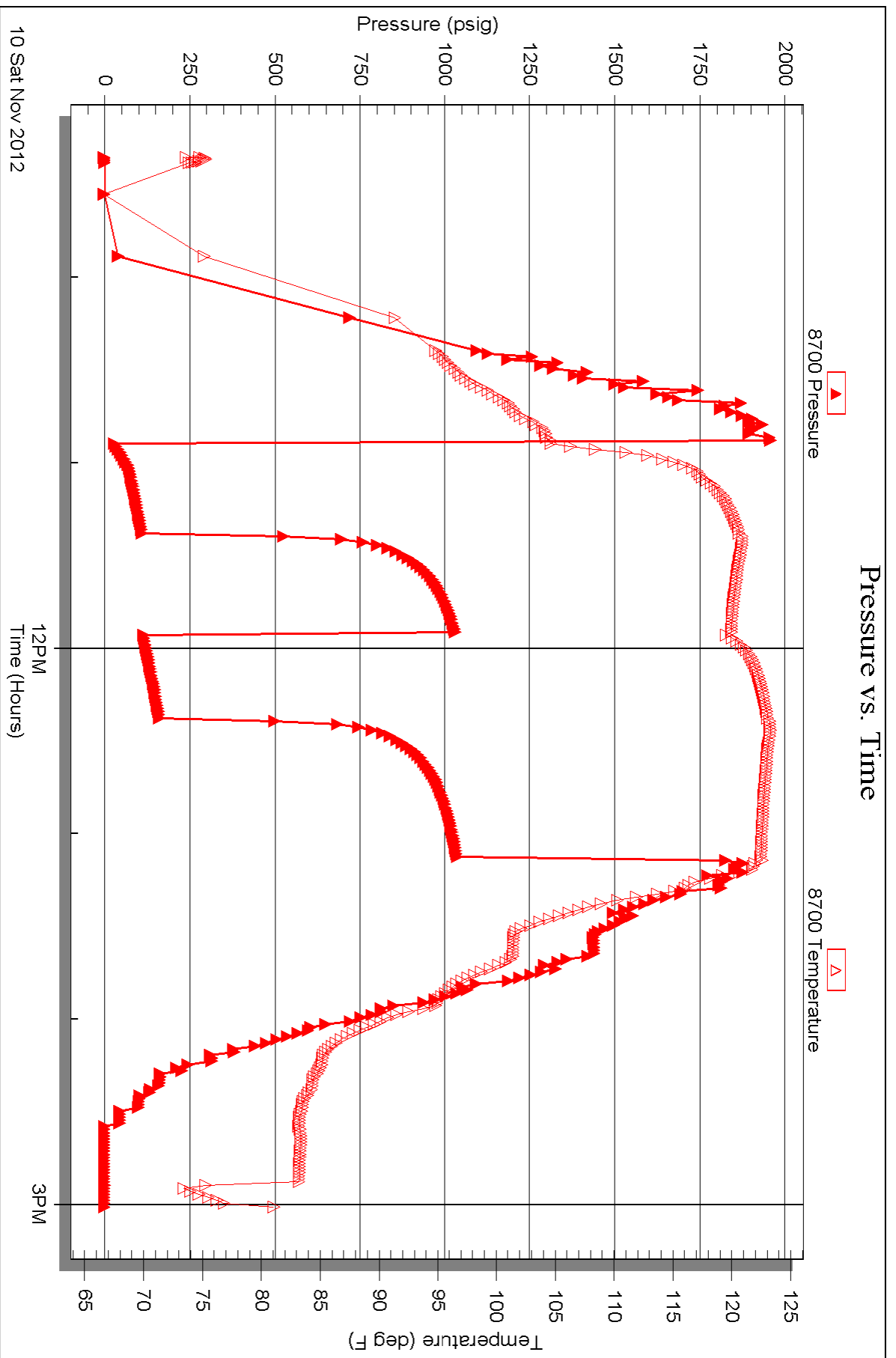


Serial #: 8700

Outside John O Farmer Inc

Brenner B #6

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 48593

Printed: 2012.11.19 @ 14:59:47



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 48592

Well Name & No. Brenner B#6 Test No. 1 Date 11-9-11  
 Company John O. Farmer Inc Elevation 2193 KB 2188 GL  
 Address 370 W. WICHITA AVE. PO Box 352 Russell, Ks 67665-2635  
 Co. Rep / Geo. AUSTIN KLAUS Rig WW rig 8  
 Location: Sec. 13 Twp. 15<sup>s</sup> Rge. 21<sup>w</sup> Co. rego State Ks

Interval Tested 3915-3936 Zone Tested Congl. Ed.  
 Anchor Length 21 Drill Pipe Run 3790 Mud Wt. 9.2  
 Top Packer Depth 3910 Drill Collars Run 120 Vis 60  
 Bottom Packer Depth 3915 Wt. Pipe Run - WL 7.4  
 Total Depth 3936 Chlorides 1100 ppm System LCM 2#

Blow Description IFP - STRONG BLOW IN 3min  
ISIP - 1/2" Blow Back  
FFP - STRONG BLOW IN 3min  
FSIP - 1" Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>175</u>	<u>GIP</u>				
<u>140</u>	<u>MGO</u>	<u>10</u>	<u>60</u>		<u>30</u>
<u>560</u>	<u>CO</u>				
<u>124</u>	<u>0" GCW.</u>	<u>10</u>	<u>10</u>	<u>80</u>	
<u>124</u>	<u>WATER</u>				

Rec Total 948 BHT 122 Gravity 37 API RW .18 @ 60 ° F Chlorides 46000 ppm

(A) Initial Hydrostatic 1881  Test 1150 T-On Location 1845  
 (B) First Initial Flow 159  Jars 250 T-Started 2010  
 (C) First Final Flow 255  Safety Joint 75 T-Open 2215  
 (D) Initial Shut-In 905  Circ Sub T-Pulled 0000  
 (E) Second Initial Flow 264  Hourly Standby T-Out 0320  
 (F) Second Final Flow 366  Mileage 52 RT 80.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 906  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1844  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_

Initial Open 15  Extra Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_  
 Final Flow 15  Day Standby \_\_\_\_\_  
 Final Shut-In 45  Accessibility \_\_\_\_\_  
 Sub Total 1555.60 Sub Total 0  
 Total 1555.60 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative RAY SCHWAGER *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.



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 48593

Well Name & No. Brenner B#6 Test No. 2 Date 11-10-12  
 Company John O. Farmer Inc Elevation 2193 KB 2188 GL  
 Address 370 W. WICHITA AVE. PO Box 352 Russell Ks 67665-2635  
 Co. Rep / Geo. Austin Klaus Rig WW1.98  
 Location: Sec. 13 Twp. 15<sup>s</sup> Rge. 21<sup>w</sup> Co. rego State Ks

Interval Tested 3942-3960 Zone Tested Congl sd.  
 Anchor Length 18 Drill Pipe Run 3810 Mud Wt. 9  
 Top Packer Depth 3937 Drill Collars Run 120 Vis 57  
 Bottom Packer Depth 3942 Wt. Pipe Run - WL 7.2  
 Total Depth 3960 Chlorides 1200 ppm System LCM 1<sup>st</sup>  
 Blow Description IFP - Weak To A Good Blow 1/2" To 7" Blow  
ISIP - NO Blow  
FFP - Weak To A Good Blow surface To 7" Blow  
FSTP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>CO</u>				
<u>90</u>	<u>MW</u>		<u>85</u>		<u>15</u>
<u>240</u>	<u>WATER</u>				

Rec Total 331 BHT 122 Gravity - API RW 46 @ 70 ° F Chlorides 46000 ppm

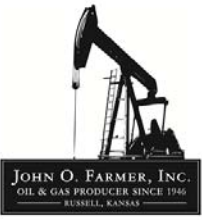
(A) Initial Hydrostatic <u>1898</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>0905</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>0915</u>
(C) First Final Flow <u>108</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>1055</u>
(D) Initial Shut-In <u>1032</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1310</u>
(E) Second Initial Flow <u>112</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1501</u>
(F) Second Final Flow <u>159</u>	<input checked="" type="checkbox"/> Mileage <u>52 RT</u> 80.60	Comments _____
(G) Final Shut-In <u>1052</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>1854</u>	<input type="checkbox"/> Straddle	<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>45</u>	<input type="checkbox"/> Day Standby	Total <u>1555.60</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1555.60</u>	

Approved By \_\_\_\_\_

Our Representative RAY SCHWAGN *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.





# 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:** Brenner B #6  
**Location:** Trego County  
**License Number:** API #15-195-22830-00-00  
**Spud Date:** 11/5/12  
**Surface Coordinates:** Section 13 - Township 15 South - Range 21 West  
1,650' FNL & 2,310' FEL  
**Bottom Hole Coordinates:** Vertical well with minimal deviation, same as above  
**Ground Elevation (ft):** 2,188'      **K.B. Elevation (ft):** 2,193'  
**Logged Interval (ft):** 3,450'      **To:** 4,010'      **Total Depth (ft):** 4,010'  
**Formation:** Heebner-Conglomerate Sand  
**Type of Drilling Fluid:** Chemical (Mud Co.)

**Region:** Kansas  
**Drilling Completed:** 11/10/12

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

## OPERATOR

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

## Comments

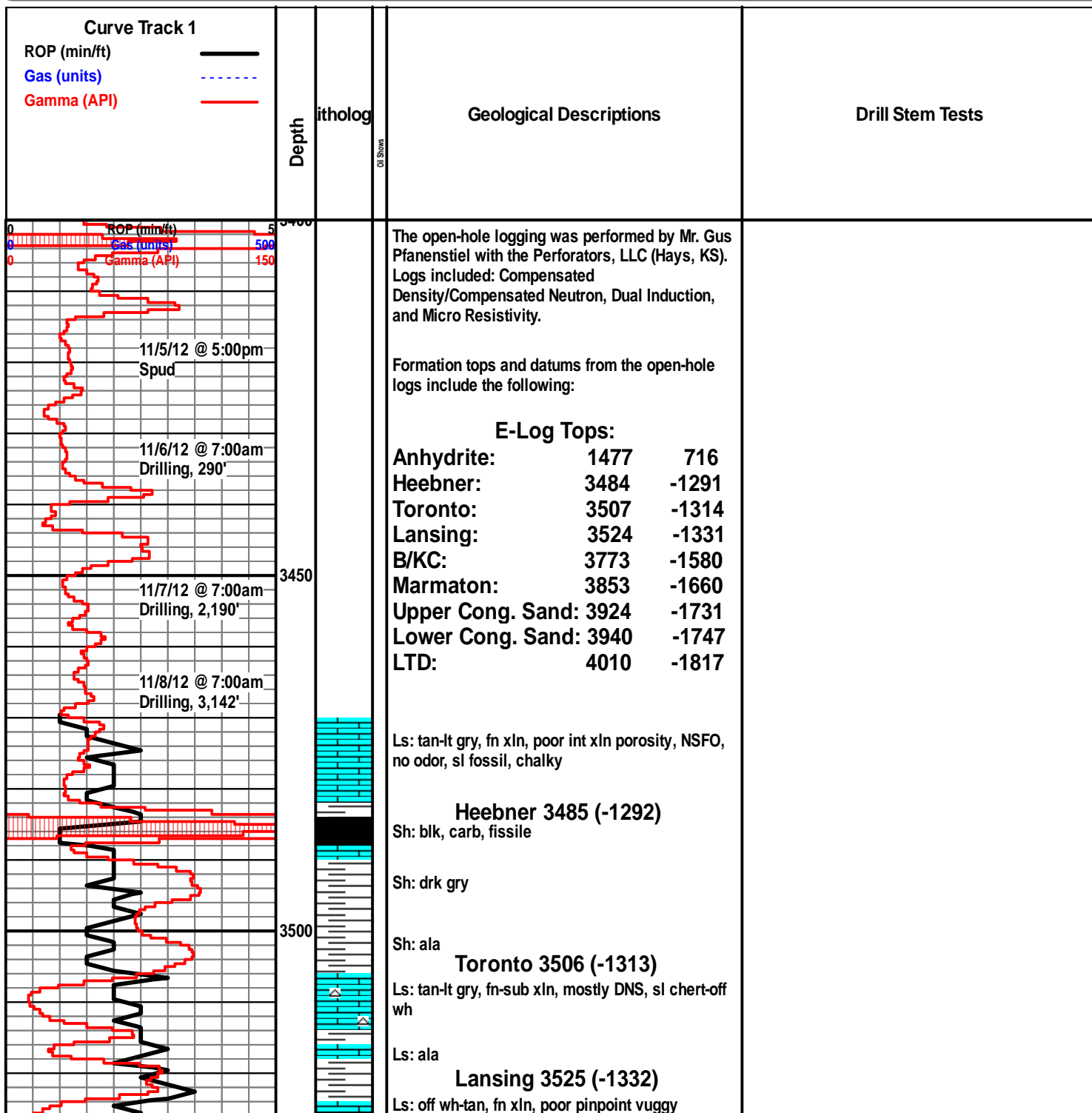
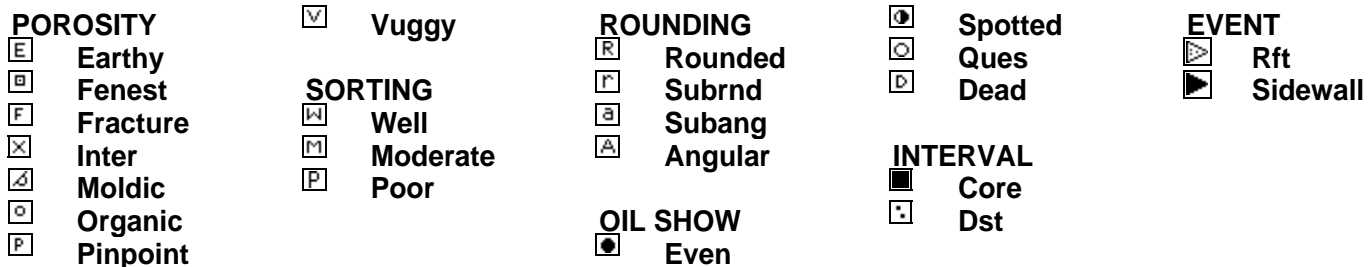
The Brenner B #6 well was drilled by WW Drilling Rig #8 (Tool Pusher: Mark Biggie).

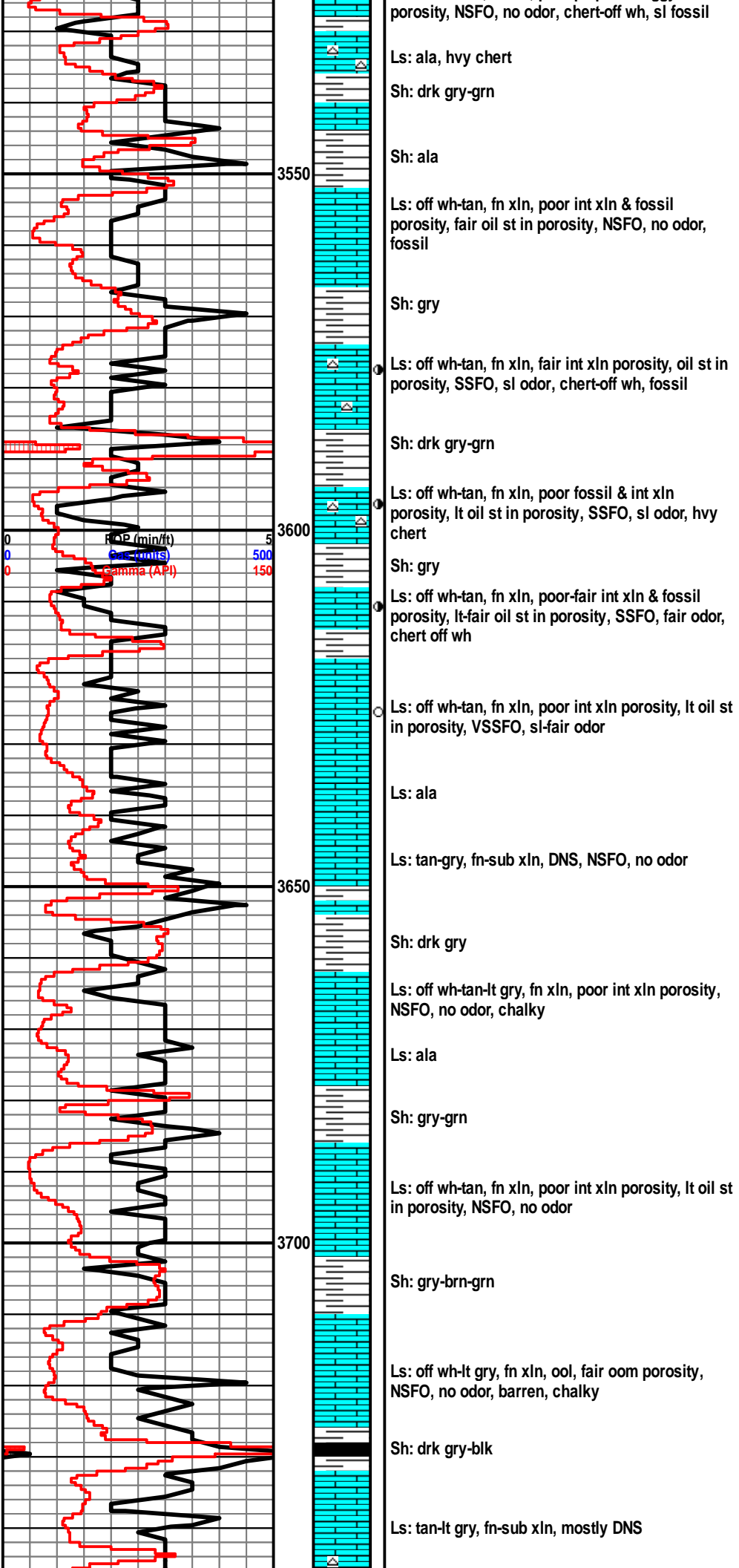
The location for the Brenner B #6 well was found via 3-D seismic survey. Based on the results of the drill stem tests that were conducted and the samples and wireline logs that were evaluated, the decision was made to run 5 1/2" production casing on 11/11/12 to further evaluate the Brenner B #6 well.

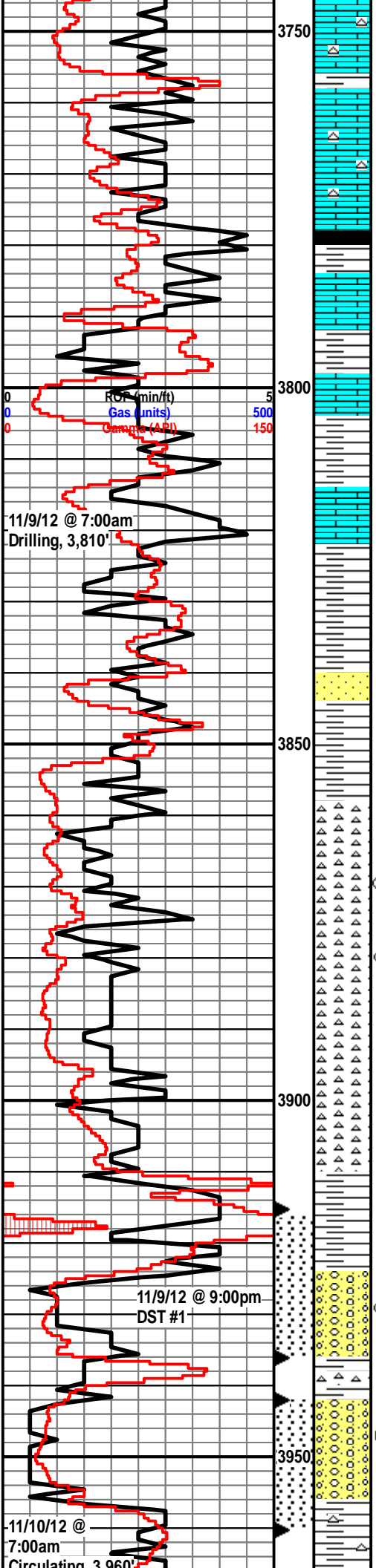
### ROCK TYPES



### OTHER SYMBOLS







Ls: ala, hvy chert-off wh

Sh: drk gry

Ls: off wh-tan-lt gry, fn-sub xln, mostly DNS, hvy chert-off wh

Sh: drk gry-blk

Ls: ala

**B/KC 3790 (-1597)**

Sh: gry-brn-grn, soft

Ls: off wh-lt gry fn xln, ool, mostly DNS

Sh: gry-brn-grn, fw pcs blk fissile

Ls: off wh-lt gry fn xln, DNS, NSFO

Sh: gry-brn-grn, soft, fw pcs sltst

Sh: ala

Sh: gry-brn-grn, soft

Sh: ala

**Marmaton 3863 (-1670)**

Chrt Cong: brn-maroon, sh-gry-brn-grn

Chrt: off wh, fn xln, poor int xln porosity, oil st, SSFO in tray, fair odor, tight DNS chrt

Chrt: wh-off wh, fn xln, poor trip. porosity, oil st, SSFO, fair-good odor

Chrt: ala

Chrt: off wh-tan, sub xln, vry DNS

Sh: drk gry-brn-grn

**Upper Cong. Sand 3924 (-1731)**

Cong ss: fn-md grn, subrounded, poorly sorted, poor int granular porosity, SSFO, sl-fair odor

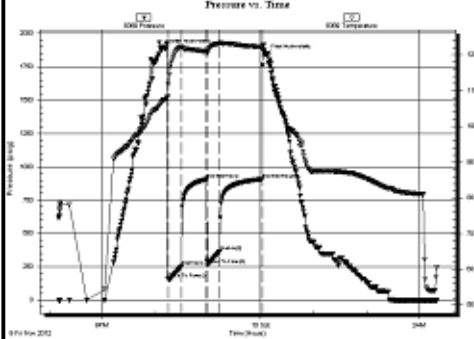
Chrt-Cong-Sh: multicolored

**Lower Cong. Sand 3942 (-1749)**

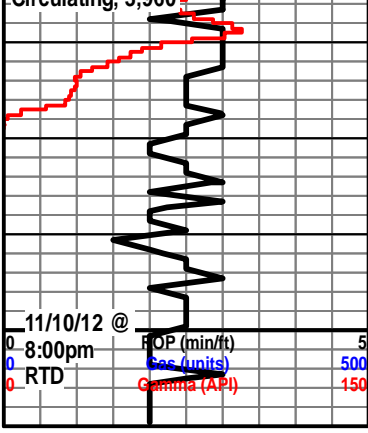
Cong ss: off wh, vry fn-fn grain, fairly well rounded, fair-good sorting, NSFO, no odor

Cong: Sh: arv-brn-maroon, chert-off wh

**DST #1 3,915'-3,936' (Upper Cong. Sand)**  
 15"-30"-15"-45"  
 IF: BOB in 3 minutes, 1/2" blow back on SI  
 FF: BOB in 3 minutes, 1" blow back on SI  
 Rec: 175' GIP, 560' Clean Oil (37 gravity), 140' Muddy Gassy Oil (10% G, 10% O, 80% W) 124' Saltwater 48k Chlorides  
 FP: 159-255#, 265-366#  
 SIP: 906-907#  
 HP: 1,882-1,844#  
 BHT: 123



**DST #2 3,942'-3,960' (Lower Cong. Sand)**  
 30"-30"-30"-45"  
 IF: Surface blow built to 7", no blow back on SI  
 FF: Surface blow built to 7", no blow back on SI  
 Rec: 1' Clean Oil, 90' Muddy Water (15% Mud, 85% Water), 240' Saltwater 46k Chlorides  
 FP: 21-109#, 112-160#  
 SIP: 1,032-1,053#  
 HP: 1,898-1,855#



Cong: Sh, gry-brn-maroon, sltst: fn grain, chert-off wh, NSFO, no odor

Cong: ala, NSFO, no odor

Sh, Cong: gry-brn-maroon, sltst: fn grain, chert-off wh, NSFO, no odor

RTD 4010 (-1817)

