



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1117278  
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: \_\_\_\_\_



1117278

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Brinker Enterprises, LLC
Well Name	BracyJones 29-1
Doc ID	1117278

Tops

Name	Top	Datum
Base Anhydrite	1099	652
Topeka	2639	-890
Deer Creek	2689	-939
Lecampton	2753	-1003
Heebner	2854	-1104
Toronto	2878	-1127
Lansing	2898	-1148
Base KC	3146	-1396
Arbuckle	3300	-1550
TD		-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

February 18, 2013

Lee Brinker  
Brinker Enterprises, LLC  
216 S MARSHALL ST  
GLEN ELDER, KS 67446

Re: ACO1  
API 15-163-24097-00-00  
BracyJones 1  
NE/4 Sec.29-07S-16W  
Rooks 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,  
Lee Brinker

# ALLIED OIL & GAS SERVICES, LLC 056090

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Russell, KS

DATE <u>1-11-13</u>	SEC <u>29</u>	TWP <u>7</u>	RANGE <u>16</u>	CALLED OUT	ON LOCATION	JOB START <u>3 PM</u>	JOB FINISH <u>4 PM</u>
LEASE <u>Breary Jones</u>	WELL # <u>1</u>	LOCATION <u>Wickliff, KS</u>			COUNTY <u>Boone</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>1 south h.5 west 3/4 south e. 1/4</u>			<u>2-02</u>	<u>6.3</u>	

CONTRACTOR WLD Drilling #16 OWNER \_\_\_\_\_  
 TYPE OF JOB LS  
 HOLE SIZE 7 7/8 T.D. \_\_\_\_\_  
 CASING SIZE 5 1/2 DEPTH 3064.81'  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX 1500# MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. 21.17'  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 74.26 bbls

EQUIPMENT  
 PUMP TRUCK CEMENTER Tony D. Bob S1  
 # 409 HELPER Kevin Q. 3  
 BULK TRUCK  
 # 378 DRIVER Vicki M. TWS  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

CEMENT  
 AMOUNT ORDERED 190 ASC  
5# Gilsomite Per SK  
 COMMON 190SK @ 209 \$3971.00  
 POZMIX @ \_\_\_\_\_  
 GEL 1/2# @ 234 \$117.00  
 CHLORIDE @ \_\_\_\_\_  
 ASC @ \_\_\_\_\_  
1952 - Gilsomite @ \_\_\_\_\_  
= 950# @ .98 \$931.00  
Deframer = 25# @ 9.80 \$245.00  
FL-10 = 50# @ 18.25 \$912.50  
mud flush 12 gal @ 28.70 \$344.40  
CIA-pro kcal 5 @ 34.4 \$172.00  
 HANDLING 244.61 1/2 @ 2.48 \$606.24  
 MILEAGE 547.86 7/8 @ 2.60 \$1424.46  
 TOTAL \$8,967.00

REMARKS:

- \* Pan float equipment -
- \* Circulated mud to surface -
- \* @ 1 hr.
- \* Pan - mud flush @ 12 gal
- \* KCL - @ 20 #/bbl
- \* Pan cut @ bathob = 30sk
- \* Pan cut @ downhole 40.7 gal
- \* Bathob cut @ 74.26 #/bbl
- \* 1500# landing #148 - Thank

SERVICE

DEPTH OF JOB 3064.81'  
 PUMP TRUCK CHARGE \$2,558.75  
 EXTRA FOOTAGE @ \_\_\_\_\_  
 MILEAGE Desny 51 mi @ 7.70 \$392.70  
 MANIFOLD 15 gal 51 mi @ 4.40 \$224.40

CHARGE TO: Briales Enterprises  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL \$8,195.85

5 1/2 PLUG & FLOAT EQUIPMENT

both down - x 1 = \$324.09  
Basket 8" x 2 @ 354.29 \$708.58  
central line x 8 @ 57.35 \$458.80  
float shoe x 1 @ \_\_\_\_\_ \$475.02  
scotchman x 30 @ 88.92 \$2,667.60  
\$30 @ \_\_\_\_\_

TOTAL \$5,247.45

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) 767.55  
 TOTAL CHARGES \$17,390.30  
 DISCOUNT \$4,956.24 IF PAID IN 30 DAYS

PRINTED NAME Preston L Drilling  
 SIGNATURE [Signature]

Net 12,434.06 BS 1-12  
 before tax

# ALLIED OIL & GAS SERVICES, LLC 056851.

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Russell KS

DATE <u>1-3-12</u>	SEC <u>29</u>	TWP. <u>7</u>	RANGE <u>16</u>	CALLED OUT	ON LOCATION	JOB START <u>2:00pm</u>	JOB FINISH <u>2:30pm</u>
LEASE <u>Bracy-Jones</u>		WELL # <u>1</u>	LOCATION <u>Woodston KS 1S 1 1/2 W Einto</u>			COUNTY <u>Rooks</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)		<u>3/4 S E into</u>				<u>2.01</u>	<u>6.3</u>

CONTRACTOR <u>WW #6</u>	OWNER
TYPE OF JOB <u>surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>1068</u>
CASING SIZE <u>8 5/8 23'</u>	DEPTH <u>1067.42</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>15</u>
CEMENT LEFT IN CSG. <u>15</u>	
PERFS.	
DISPLACEMENT <u>67661</u>	
EQUIPMENT	
PUMP TRUCK CEMENTER <u>Robert V 1</u>	
# <u>417</u> HELPER <u>Woody O 2</u>	
BULK TRUCK	
# <u>481</u> DRIVER <u>Bob S 1</u>	
BULK TRUCK	
# <u>410</u> DRIVER <u>Nathan D 3</u>	
	COMMON <u>500</u> @ <u>17.90</u> <u>8950.00</u>
	POZMIX @
	GEL <u>10</u> @ <u>23.40</u> <u>234.00</u>
	CHLORIDE <u>18</u> @ <u>64.00</u> <u>1152.00</u>
	ASC @
	@
	@
	@
	@
	@
	@
	HANDLING <u>542.20</u> <u>ft<sup>3</sup></u> @ <u>2.48</u> <u>1344.65</u>
	MILEAGE <u>1260.72</u> <u>+/m</u> <u>2.60</u> <u>3277.87</u>
	TOTAL <u>14958.52</u>

REMARKS:

ran 2.7jtr of new 8 5/8 23' csg received circulation mix 500 com 3%acc 2%gel displaced 67661 of water shut in

cement did circulate to surface

SERVICE

DEPTH OF JOB	<u>1068</u>
PUMP TRUCK CHARGE	<u>1512.25</u>
EXTRA FOOTAGE	@
MILEAGE <u>51</u> <u>HVM I</u>	@ <u>7.70</u> <u>392.70</u>
MANIFOLD	@
<u>51</u> <u>LVM I</u>	@ <u>4.40</u> <u>224.40</u>
	@

TOTAL 2129.35

CHARGE TO: Brinker  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

<u>8 5/8</u> <u>Wooden plug</u>	@ <u>107.64</u> <u>107.64</u>
	@
	@
	@
	@

TOTAL 107.64

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) 657.94

TOTAL CHARGES 17195.51

DISCOUNT 4393.45 IF PAID IN 30 DAYS

PRINTED NAME Jason Richeson

SIGNATURE [Signature]

before tax Yes 12802.06



## DRILL STEM TEST REPORT

Prepared For: **Brinker Enterprises LLC**

216 S. Marshall St.  
Glen Elder KS 67446

ATTN: Lee Brinker

### **Bracy Jones #1**

### **29-7s-16w Rooks,KS**

Start Date: 2013.01.05 @ 14:15:46

End Date: 2013.01.05 @ 20:33:55

Job Ticket #: 51522                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.01.09 @ 11:39:01



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Brinker Enterprises LLC

**29-7s-16w Rooks,KS**

216 S. Marshall St.  
Glen Elder KS 67446

**Bracy Jones #1**

Job Ticket: 51522

**DST#: 1**

ATTN: Lee Brinker

Test Start: 2013.01.05 @ 14:15:46

## GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:53:41

Time Test Ended: 20:33:55

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 42

**Interval: 2648.00 ft (KB) To 2678.00 ft (KB) (TVD)**

Reference Elevations: 1750.00 ft (KB)

Total Depth: 2678.00 ft (KB) (TVD)

1745.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8369 Inside**

Press @ Run Depth: 302.47 psig @ 2649.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.05

End Date:

2013.01.05

Last Calib.: 2013.01.05

Start Time: 14:15:46

End Time:

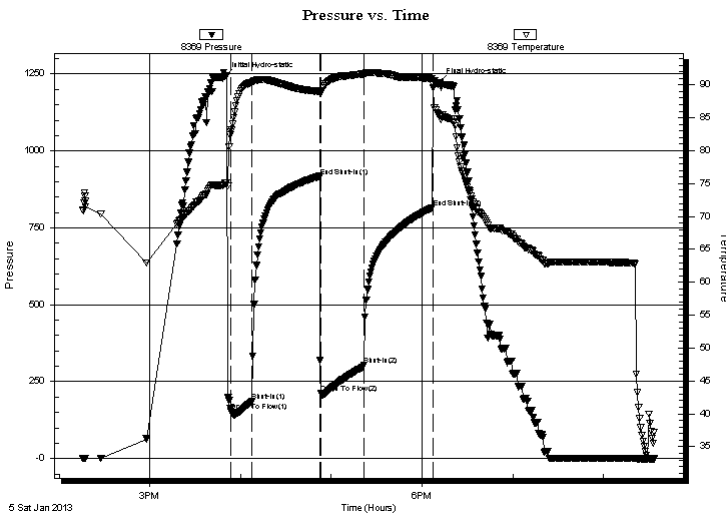
20:33:55

Time On Btm: 2013.01.05 @ 15:49:26

Time Off Btm: 2013.01.05 @ 18:10:56

**TEST COMMENT:** 15-IFP-strg bl in 1 min  
45-ISIP-3/4" bl bk  
30-FFP-strg bl in 1 min  
45-FSIP-strg bl bk in 36 min

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1243.20	75.06	Initial Hydro-static
5	152.34	82.80	Open To Flow (1)
19	186.27	90.43	Shut-In(1)
63	916.02	89.01	End Shut-In(1)
64	213.40	88.65	Open To Flow (2)
93	302.47	91.68	Shut-In(2)
138	816.26	90.99	End Shut-In(2)
142	1220.98	85.51	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	215' GIP	0.00
186.00	MGO 10%G25%M65%O	1.52
715.00	CO	10.03

## Gas Rates

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





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Brinker Enterprises LLC  
 216 S. Marshall St.  
 Glen Elder KS 67446  
 ATTN: Lee Brinker

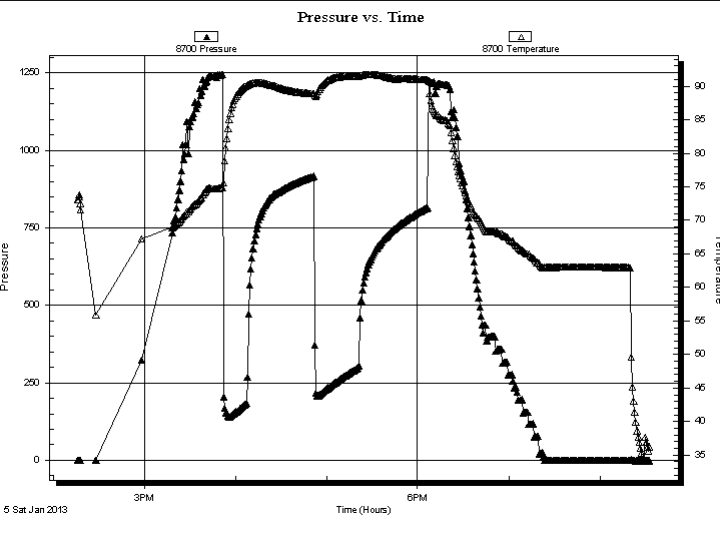
**29-7s-16w Rooks,KS**  
**Bracy Jones #1**  
 Job Ticket: 51522 **DST#: 1**  
 Test Start: 2013.01.05 @ 14:15:46

## GENERAL INFORMATION:

Formation: **Topeka**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 15:53:41 Tester: Ray Schwager  
 Time Test Ended: 20:33:55 Unit No: 42  
 Interval: **2648.00 ft (KB) To 2678.00 ft (KB) (TVD)** Reference Elevations: 1750.00 ft (KB)  
 Total Depth: 2678.00 ft (KB) (TVD) 1745.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

**Serial #: 8700 Outside**  
 Press @ Run Depth: psig @ 2649.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.01.05 End Date: 2013.01.05 Last Calib.: 2013.01.05  
 Start Time: 14:16:19 End Time: 20:33:13 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 15-IFP-strg bl in 1 min  
 45-ISIP-3/4" bl bk  
 30-FFP-strg bl in 1 min  
 45-FSIP-strg bl bk in 36 min



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

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	215' GIP	0.00
186.00	MGO 10%G25%M65%O	1.52
715.00	CO	10.03

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Brinker Enterprises LLC

**29-7s-16w Rooks,KS**

216 S. Marshall St.  
Glen Elder KS 67446

**Bracy Jones #1**

Job Ticket: 51522

**DST#: 1**

ATTN: Lee Brinker

Test Start: 2013.01.05 @ 14:15:46

## Tool Information

Drill Pipe:	Length: 2532.00 ft	Diameter: 3.80 inches	Volume: 35.52 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: 55000.00 lb
			<u>Total Volume: 36.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	2648.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	51.00 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			2628.00	
Shut In Tool	5.00			2633.00	
Hydraulic tool	5.00			2638.00	
Packer	5.00			2643.00	21.00 Bottom Of Top Packer
Packer	5.00			2648.00	
Stubb	1.00			2649.00	
Recorder	0.00	8369	Inside	2649.00	
Recorder	0.00	8700	Outside	2649.00	
Perforations	26.00			2675.00	
Bullnose	3.00			2678.00	30.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>51.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brinker Enterprises LLC

**29-7s-16w Rooks,KS**

216 S. Marshall St.  
Glen Elder KS 67446

**Bracy Jones #1**

Job Ticket: 51522

**DST#: 1**

ATTN: Lee Brinker

Test Start: 2013.01.05 @ 14:15:46

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.94 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	215' GIP	0.000
186.00	MGO 10%G25%M65%O	1.516
715.00	CO	10.030

Total Length: 901.00 ft      Total Volume: 11.546 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

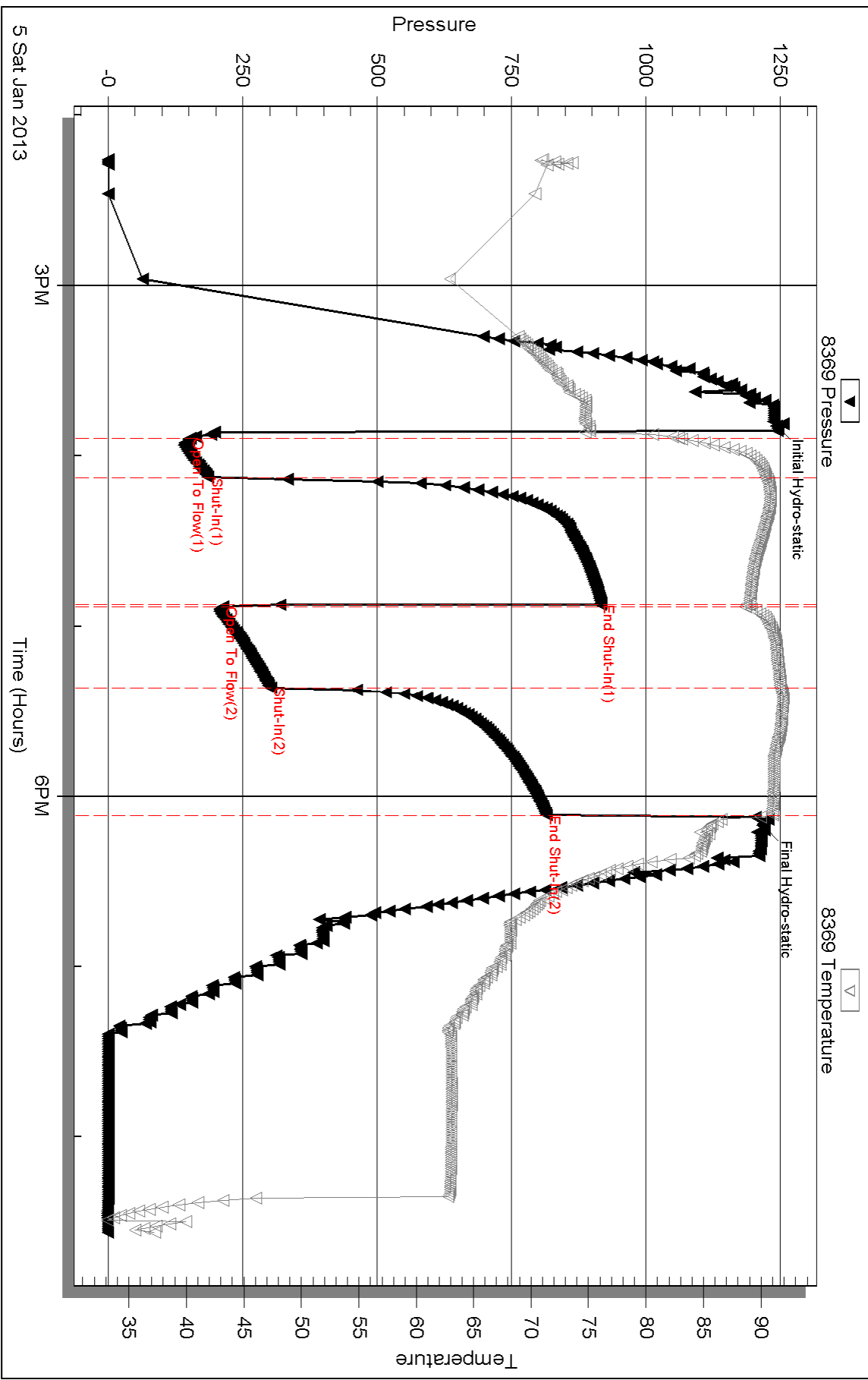
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time

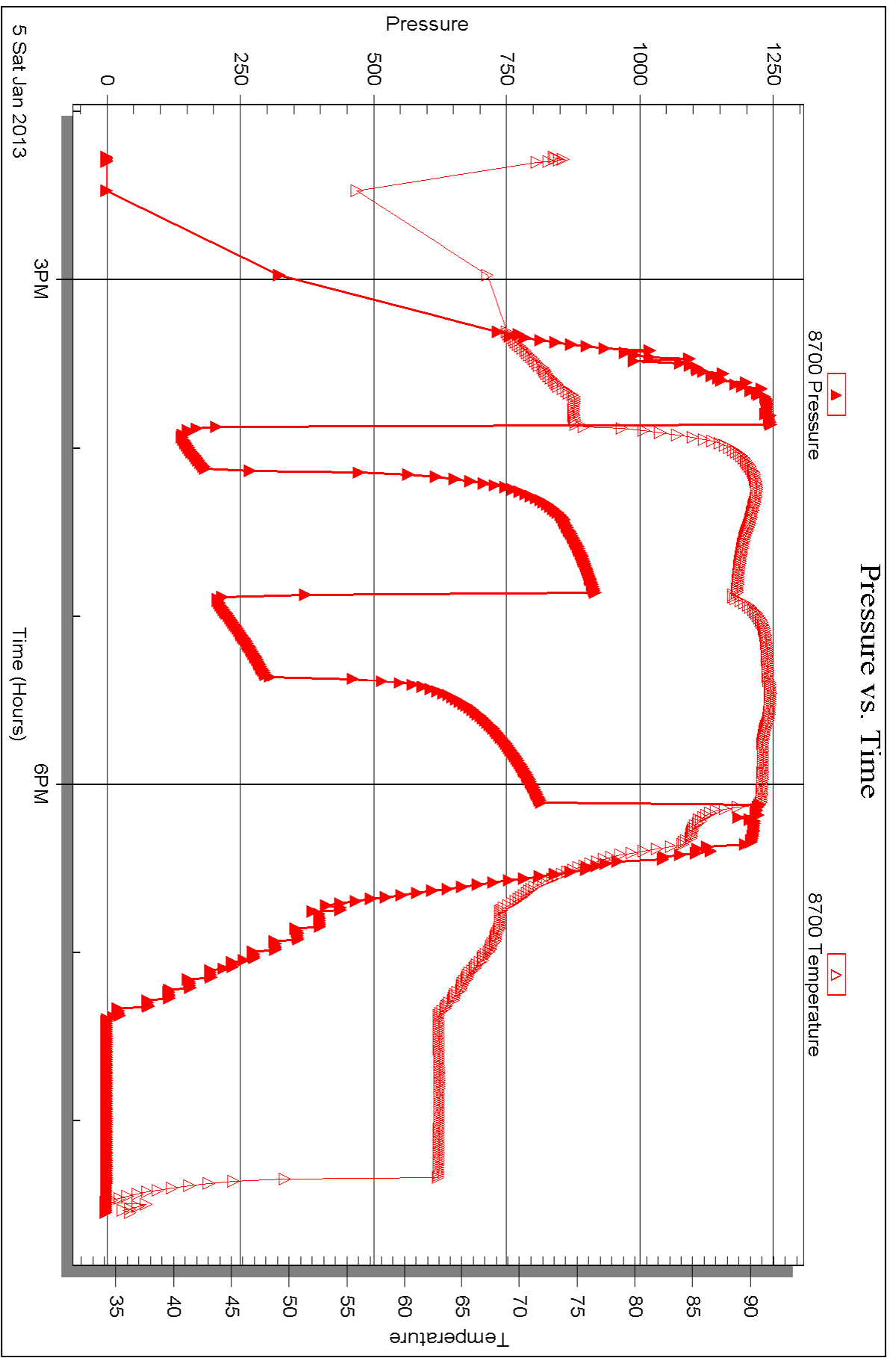


Serial #: 8700

Outside Brinker Enterprises LLC

Bracy Jones #1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Brinker Enterprises LLC**

216 S. Marshall St.  
Glen Elder KS 67446

ATTN: Lee Brinker

### **Bracy Jones #1**

### **29-7s-16w Rooks,KS**

Start Date: 2013.01.06 @ 02:05:43

End Date: 2013.01.06 @ 08:43:07

Job Ticket #: 51523                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.01.09 @ 11:36:08



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Brinker Enterprises LLC  
 216 S. Marshall St.  
 Glen Elder KS 67446  
 ATTN: Lee Brinker

**29-7s-16w Rooks,KS**  
**Bracy Jones #1**  
 Job Ticket: 51523 **DST#: 2**  
 Test Start: 2013.01.06 @ 02:05:43

## GENERAL INFORMATION:

Formation: **Deer Creek**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:42:08  
 Time Test Ended: 08:43:07  
 Interval: **2678.00 ft (KB) To 2700.00 ft (KB) (TVD)**  
 Total Depth: 2700.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 42  
 Reference Elevations: 1750.00 ft (KB)  
 1745.00 ft (CF)  
 KB to GR/CF: 5.00 ft

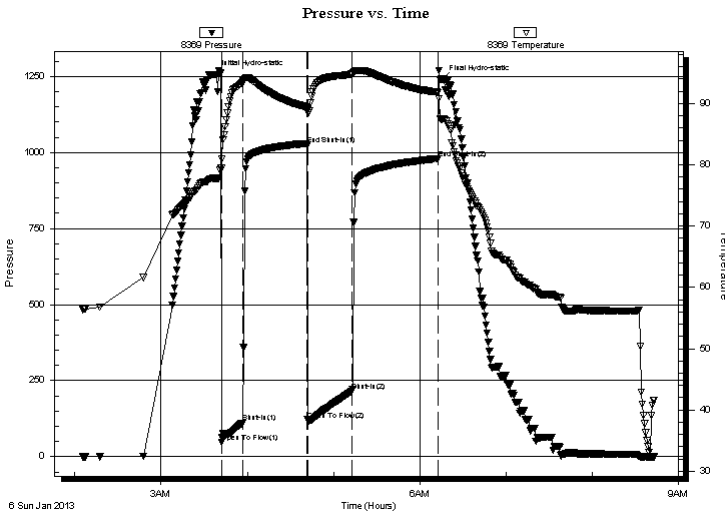
## Serial #: 8369

Inside

Press @ Run Depth: 215.61 psig @ 2679.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.01.06 End Date: 2013.01.06 Last Calib.: 2013.01.06  
 Start Time: 02:05:43 End Time: 08:43:07 Time On Btm: 2013.01.06 @ 03:37:23  
 Time Off Btm: 2013.01.06 @ 06:15:23

TEST COMMENT: 15-IFP-strg bl in 3 min  
 45-ISIP-strg bl bk in 30 min  
 30-FFP-strg bl thru-out  
 60-FSIP-strg bl bk

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1255.25	77.78	Initial Hydro-static
5	47.07	79.45	Open To Flow (1)
20	111.87	93.46	Shut-In(1)
65	1024.62	89.39	End Shut-In(1)
65	121.19	88.90	Open To Flow (2)
96	215.61	94.78	Shut-In(2)
156	978.71	91.80	End Shut-In(2)
158	1239.72	87.34	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
140.00	GIP	0.87
124.00	MGO 15%G10%M75%O	1.74
540.00	CO	7.57

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Brinker Enterprises LLC

**29-7s-16w Rooks,KS**

216 S. Marshall St.  
Glen Elder KS 67446

**Bracy Jones #1**

Job Ticket: 51523

**DST#: 2**

ATTN: Lee Brinker

Test Start: 2013.01.06 @ 02:05:43

## Tool Information

Drill Pipe:	Length: 2563.00 ft	Diameter: 3.80 inches	Volume: 35.95 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: 55000.00 lb
			<u>Total Volume: 36.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 33000.00 lb
Depth to Top Packer:	2678.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	43.00 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			2658.00	
Shut In Tool	5.00			2663.00	
Hydraulic tool	5.00			2668.00	
Packer	5.00			2673.00	21.00 Bottom Of Top Packer
Packer	5.00			2678.00	
Stubb	1.00			2679.00	
Recorder	0.00	8369	Inside	2679.00	
Recorder	0.00	8700	Outside	2679.00	
Perforations	18.00			2697.00	
Bullnose	3.00			2700.00	22.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>43.00</b>				



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brinker Enterprises LLC

**29-7s-16w Rooks,KS**

216 S. Marshall St.  
Glen Elder KS 67446

**Bracy Jones #1**

Job Ticket: 51523

**DST#: 2**

ATTN: Lee Brinker

Test Start: 2013.01.06 @ 02:05:43

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.94 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
140.00	GIP	0.871
124.00	MGO 15%G10%M75%O	1.739
540.00	CO	7.575

Total Length: 804.00 ft

Total Volume: 10.185 bbl

Num Fluid Samples: 0

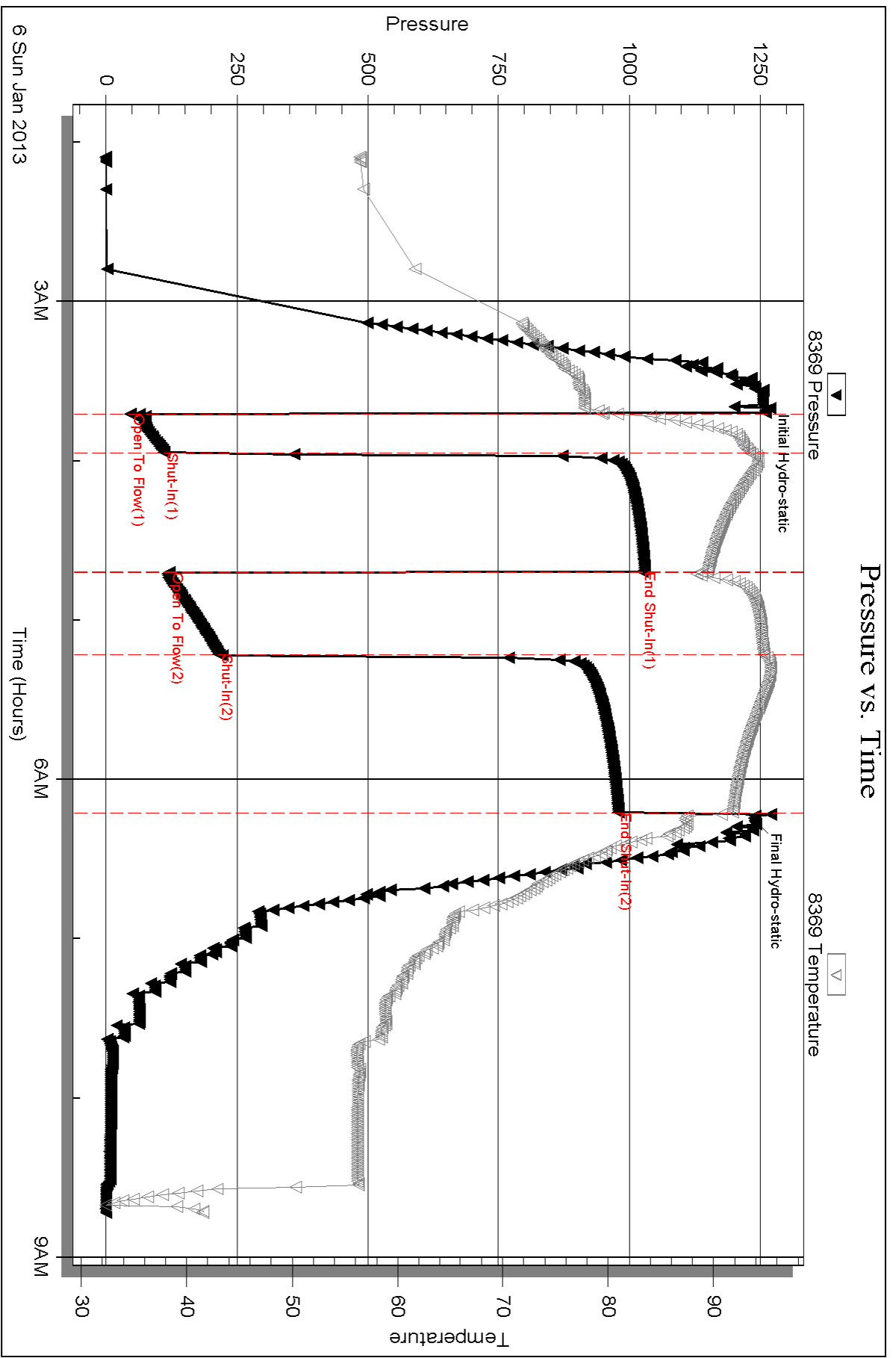
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

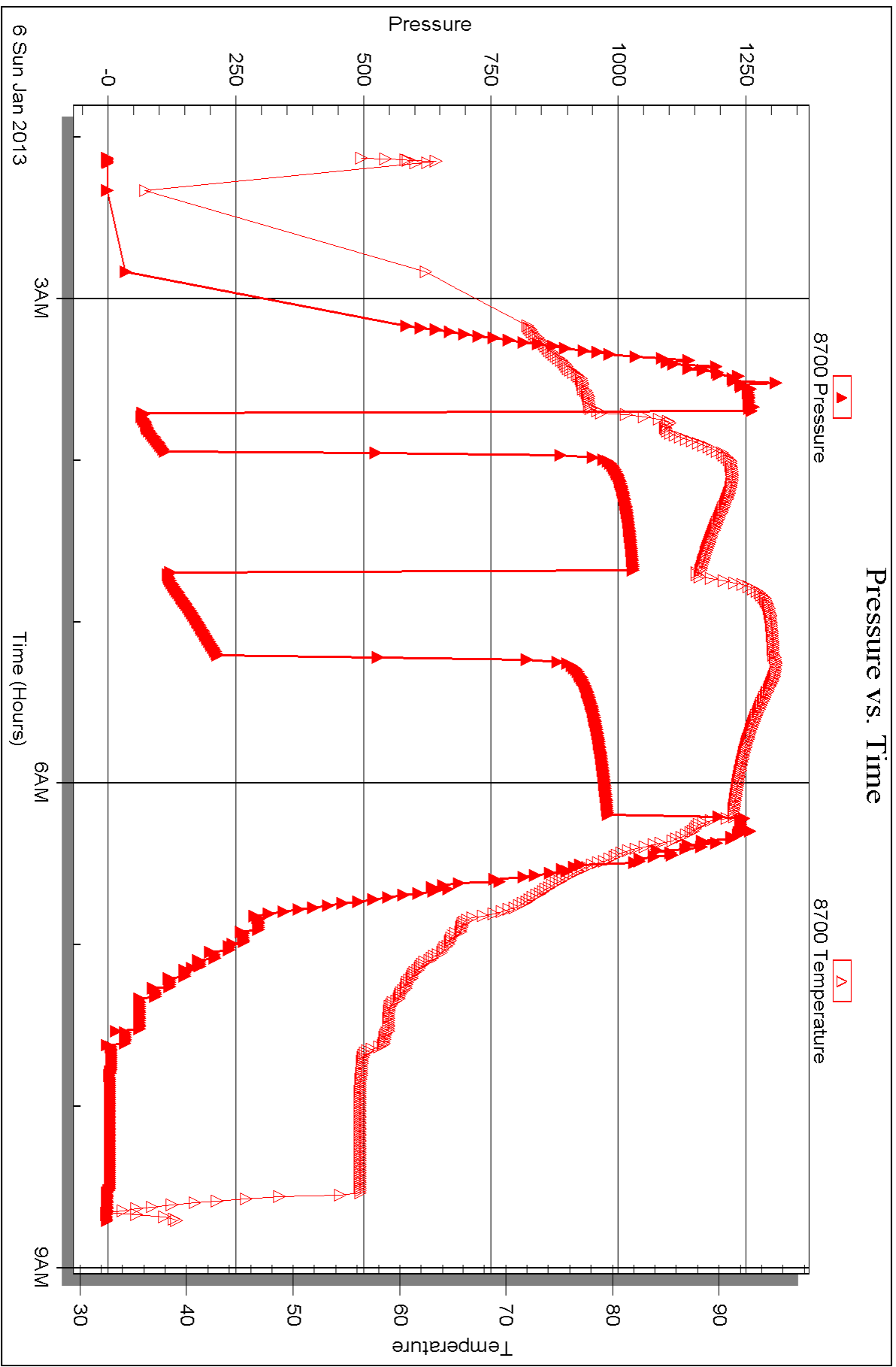


Serial #: 8700

Outside Brinker Enterprises LLC

Bracy Jones #1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 51523

Printed: 2013.01.09 @ 11:36:14



## DRILL STEM TEST REPORT

Prepared For: **Brinker Enterprises LLC**

216 S. Marshall St.  
Glen Elder KS 67446

ATTN: Lee Brinker

### **Bracy Jones #1**

### **29-7s-16w Rooks,KS**

Start Date: 2013.01.06 @ 16:00:56

End Date: 2013.01.06 @ 21:42:05

Job Ticket #: 51524                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.01.09 @ 11:35:25



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Brinker Enterprises LLC  
 216 S. Marshall St.  
 Glen Elder KS 67446  
 ATTN: Lee Brinker

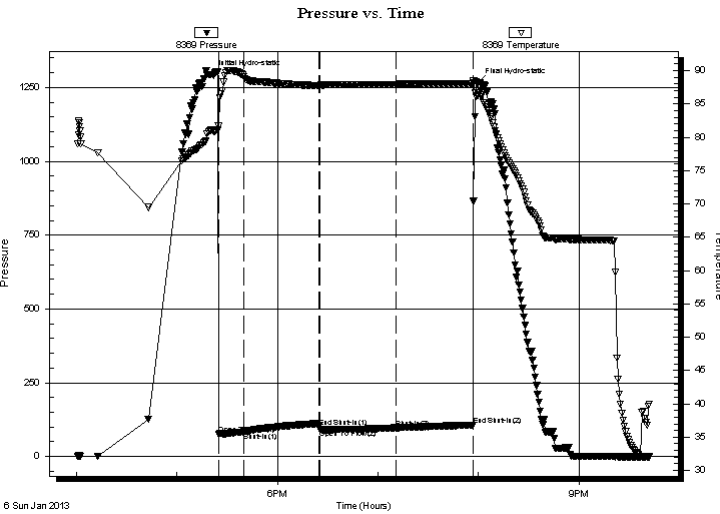
**29-7s-16w Rooks,KS**  
**Bracy Jones #1**  
 Job Ticket: 51524 **DST#: 3**  
 Test Start: 2013.01.06 @ 16:00:56

## GENERAL INFORMATION:

Formation: **Lecompton**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:24:51  
 Time Test Ended: 21:42:05  
 Interval: **2736.00 ft (KB) To 2770.00 ft (KB) (TVD)**  
 Total Depth: 2770.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 42  
 Reference Elevations: 1750.00 ft (KB)  
 1745.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8369 Inside**  
 Press @ Run Depth: 97.23 psig @ 2742.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.01.06 End Date: 2013.01.06 Last Calib.: 2013.01.06  
 Start Time: 16:00:56 End Time: 21:42:05 Time On Btm: 2013.01.06 @ 17:20:36  
 Time Off Btm: 2013.01.06 @ 19:59:51

**TEST COMMENT:** 15-IFP-strg bl in 2min  
 45-ISIP-1/2" bl bk  
 30-FFP-w k to a fr bl 1/2" to 6" bl  
 60-FSIP-1/2" bl bk



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1293.31	81.08	Initial Hydro-static
5	73.99	81.66	Open To Flow (1)
20	83.74	89.08	Shut-In(1)
65	100.46	87.76	End Shut-In(1)
65	92.16	87.78	Open To Flow (2)
110	97.23	87.94	Shut-In(2)
157	106.36	88.11	End Shut-In(2)
160	1265.20	86.28	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
186.00	SGCMO 5%G30%M65%O	1.52
20.00	MO 10%M90%O	0.28

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Brinker Enterprises LLC

**29-7s-16w Rooks,KS**

216 S. Marshall St.  
Glen Elder KS 67446

**Bracy Jones #1**

Job Ticket: 51524

**DST#: 3**

ATTN: Lee Brinker

Test Start: 2013.01.06 @ 16:00:56

## Tool Information

Drill Pipe:	Length: 2625.00 ft	Diameter: 3.80 inches	Volume: 36.82 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:	65000.00 lb
			<u>Total Volume: 37.41 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	32000.00 lb
Depth to Top Packer:	2736.00 ft			Final	34000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	34.00 ft				
Tool Length:	55.00 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			2716.00	
Shut In Tool	5.00			2721.00	
Hydraulic tool	5.00			2726.00	
Packer	5.00			2731.00	21.00 Bottom Of Top Packer
Packer	5.00			2736.00	
Stubb	1.00			2737.00	
Perforations	5.00			2742.00	
Recorder	0.00	8369	Inside	2742.00	
Recorder	0.00	8700	Outside	2742.00	
Perforations	25.00			2767.00	
Bullnose	3.00			2770.00	34.00 Bottom Packers & Anchor

**Total Tool Length: 55.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brinker Enterprises LLC

**29-7s-16w Rooks,KS**

216 S. Marshall St.  
Glen Elder KS 67446

**Bracy Jones #1**

Job Ticket: 51524

**DST#: 3**

ATTN: Lee Brinker

Test Start: 2013.01.06 @ 16:00:56

## 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: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.93 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	SGCMO 5%G30%M65%O	1.516
20.00	MO 10%M90%O	0.281

Total Length: 206.00 ft

Total Volume: 1.797 bbl

Num Fluid Samples: 0

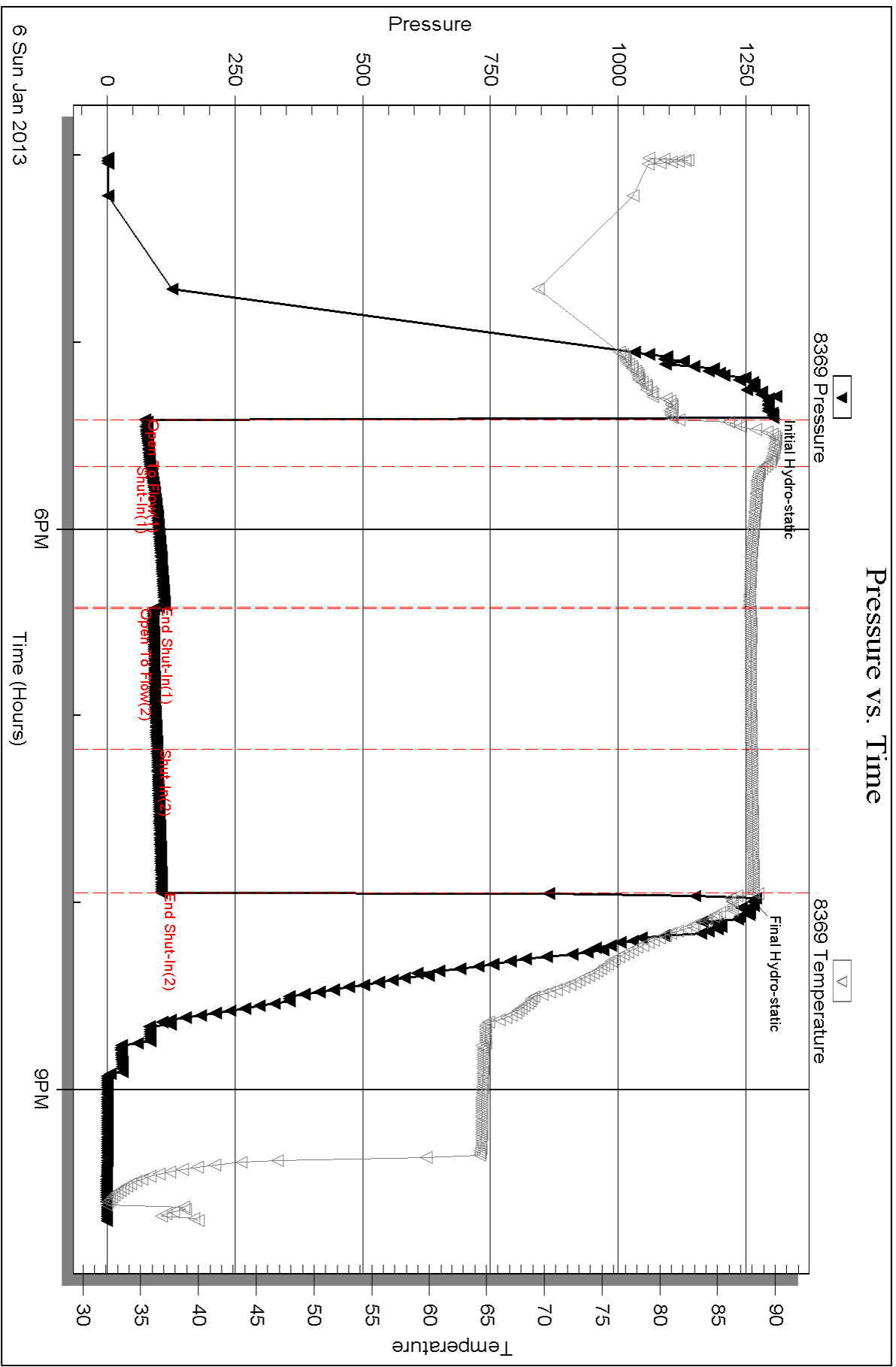
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

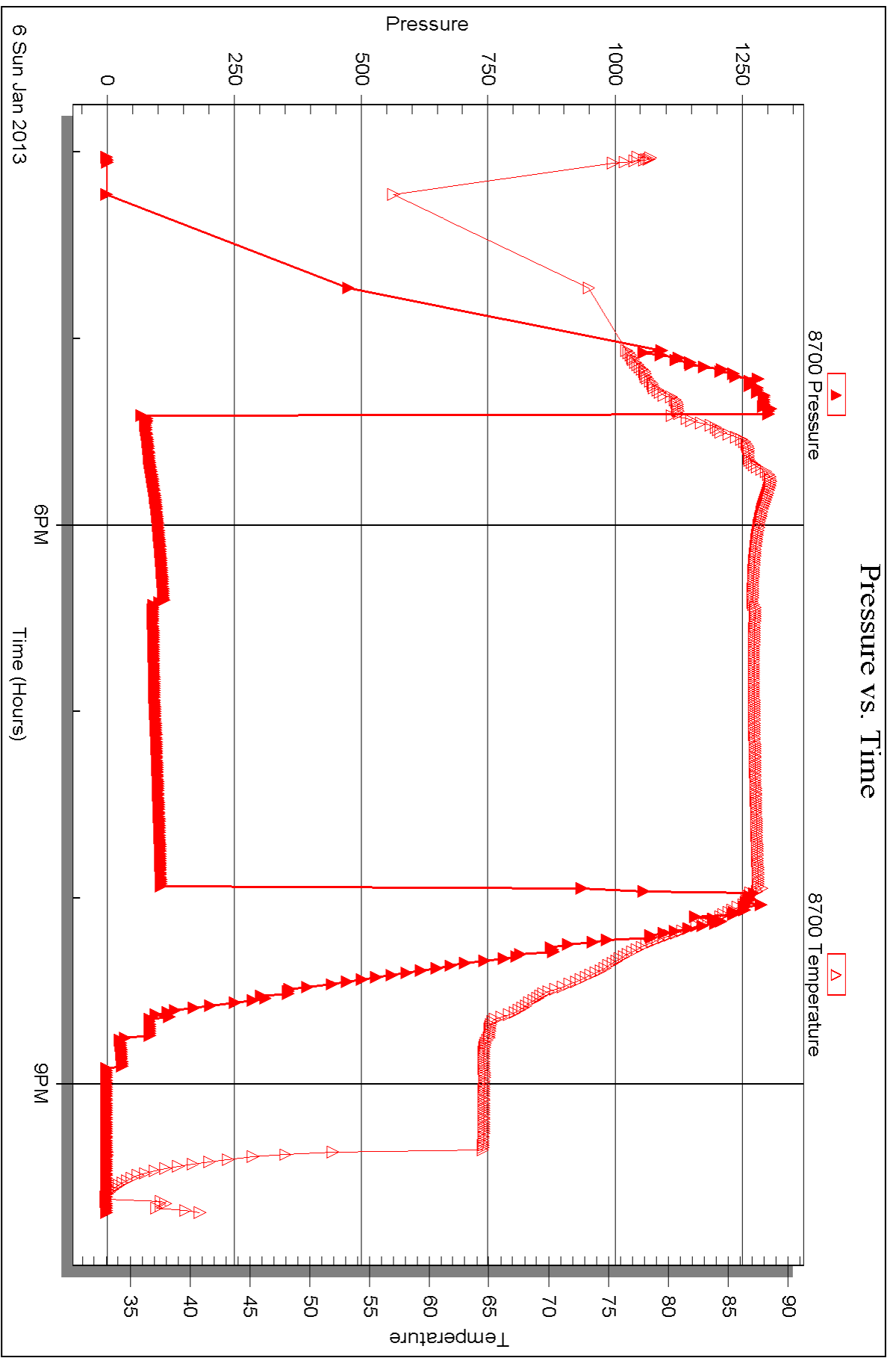


Serial #: 8700

Outside Brinker Enterprises LLC

Bracy Jones #1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 51524

Printed: 2013.01.09 @ 11:35:30



## DRILL STEM TEST REPORT

Prepared For: **Brinker Enterprises LLC**

216 S. Marshall St.  
Glen Elder KS 67446

ATTN: Lee Brinker

### **Bracy Jones #1**

### **29-7s-16w Rooks,KS**

Start Date: 2013.01.07 @ 08:00:05

End Date: 2013.01.07 @ 12:06:45

Job Ticket #: 51525                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.01.09 @ 11:34:36



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Brinker Enterprises LLC

29-7s-16w Rooks, KS

216 S. Marshall St.  
Glen Elder KS 67446

**Bracy Jones #1**

Job Ticket: 51525

**DST#: 4**

ATTN: Lee Brinker

Test Start: 2013.01.07 @ 08:00:05

## GENERAL INFORMATION:

Formation: **LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:21:00

Time Test Ended: 12:06:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 42

**Interval: 2888.00 ft (KB) To 2916.00 ft (KB) (TVD)**

Reference Elevations: 1750.00 ft (KB)

Total Depth: 2916.00 ft (KB) (TVD)

1745.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8369**

**Inside**

Press @ RunDepth: 11.35 psig @ 2889.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.07

End Date:

2013.01.07

Last Calib.: 2013.01.07

Start Time: 08:00:05

End Time:

12:06:45

Time On Btm: 2013.01.07 @ 09:18:15

Time Off Btm: 2013.01.07 @ 11:08:15

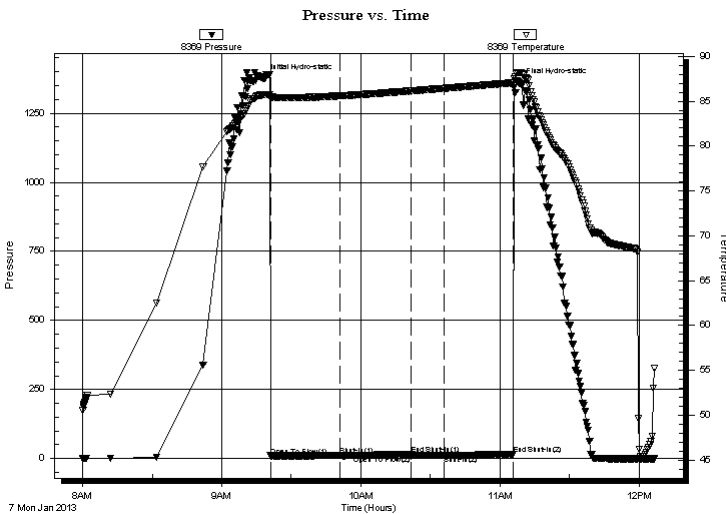
**TEST COMMENT:** 30-IFP-w k bl , died in 18 min

30-ISIP-no bl

15-FFP-no bl

30-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1376.20	85.71	Initial Hydro-static
3	9.86	85.32	Open To Flow (1)
33	11.19	85.60	Shut-In(1)
64	15.45	86.16	End Shut-In(1)
64	10.45	86.15	Open To Flow (2)
78	11.35	86.45	Shut-In(2)
108	15.87	87.05	End Shut-In(2)
110	1359.25	88.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud	0.00

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Brinker Enterprises LLC

**29-7s-16w Rooks,KS**

216 S. Marshall St.  
Glen Elder KS 67446

**Bracy Jones #1**

Job Ticket: 51525

**DST#: 4**

ATTN: Lee Brinker

Test Start: 2013.01.07 @ 08:00:05

## Tool Information

Drill Pipe:	Length: 2778.00 ft	Diameter: 3.80 inches	Volume: 38.97 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:	50000.00 lb
			<u>Total Volume: 39.56 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	34000.00 lb
Depth to Top Packer:	2888.00 ft			Final	34000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	28.00 ft				
Tool Length:	49.00 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			2868.00	
Shut In Tool	5.00			2873.00	
Hydraulic tool	5.00			2878.00	
Packer	5.00			2883.00	21.00 Bottom Of Top Packer
Packer	5.00			2888.00	
Stubb	1.00			2889.00	
Recorder	0.00	8369	Inside	2889.00	
Recorder	0.00	8700	Outside	2889.00	
Perforations	24.00			2913.00	
Bullnose	3.00			2916.00	28.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>49.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brinker Enterprises LLC

**29-7s-16w Rooks,KS**

216 S. Marshall St.  
Glen Elder KS 67446

**Bracy Jones #1**

Job Ticket: 51525

**DST#: 4**

ATTN: Lee Brinker

Test Start: 2013.01.07 @ 08:00:05

## 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.93 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

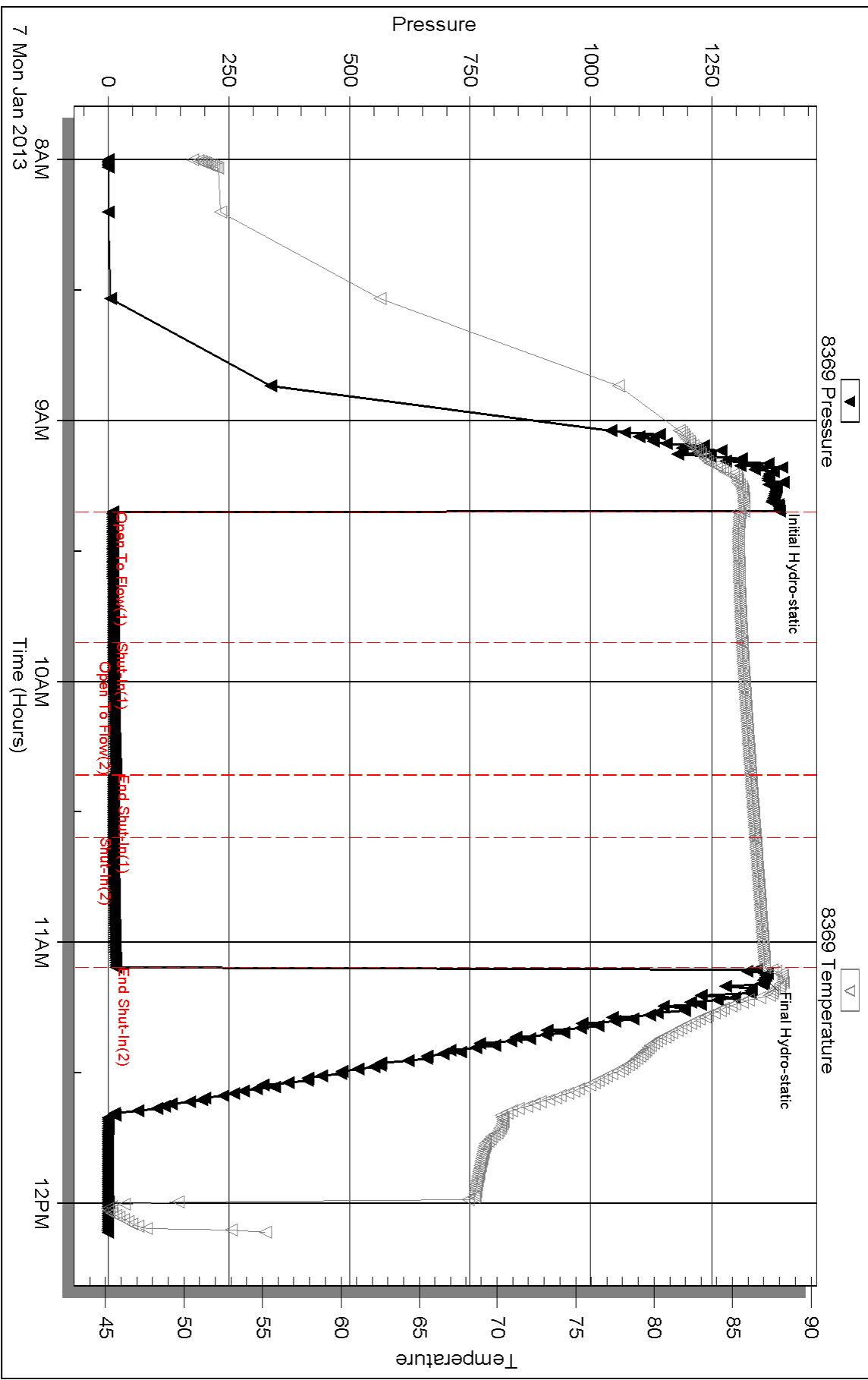
Laboratory Name:

Laboratory Location:

Recovery Comments:



### Pressure vs. Time

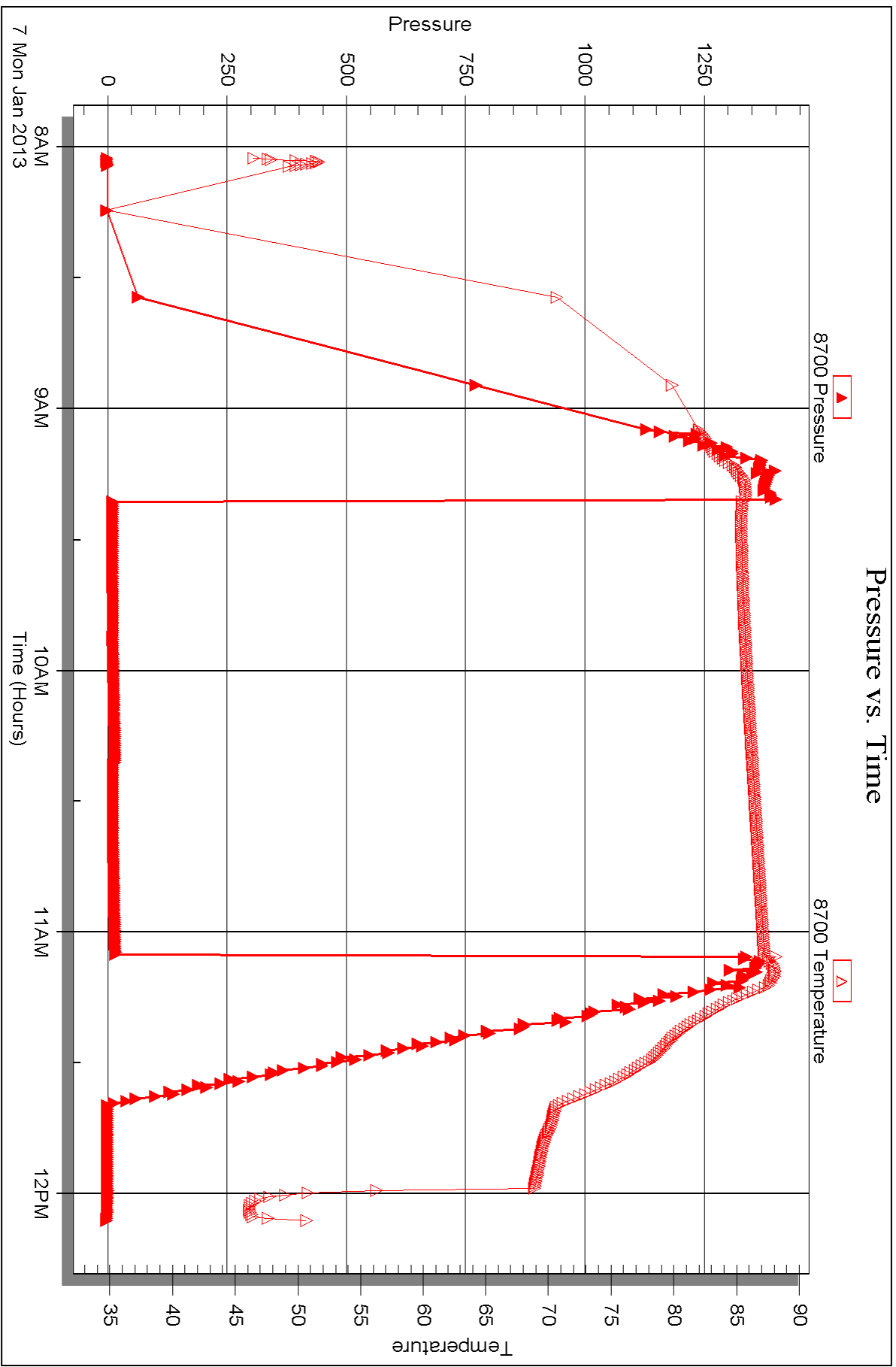


Serial #: 8700

Outside Brinker Enterprises LLC

Bracy Jones #1

DST Test Number: 4





## DRILL STEM TEST REPORT

Prepared For: **Brinker Enterprises LLC**

216 S. Marshall St.  
Glen Elder KS 67446

ATTN: Lee Brinker

### **Bracy Jones #1**

### **29-7s-16w Rooks,KS**

Start Date: 2013.01.07 @ 20:10:52

End Date: 2013.01.08 @ 01:42:01

Job Ticket #: 51626                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.01.09 @ 11:33:50



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Brinker Enterprises LLC  
 216 S. Marshall St.  
 Glen Elder KS 67446  
 ATTN: Lee Brinker

**29-7s-16w Rooks,KS**  
**Bracy Jones #1**  
 Job Ticket: 51626 **DST#: 5**  
 Test Start: 2013.01.07 @ 20:10:52

## GENERAL INFORMATION:

Formation: **LKC EF**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 21:43:32  
 Time Test Ended: 01:42:01  
 Interval: **2975.00 ft (KB) To 3000.00 ft (KB) (TVD)**  
 Total Depth: 3000.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 42  
 Reference Elevations: 1750.00 ft (KB)  
 1745.00 ft (CF)  
 KB to GR/CF: 5.00 ft

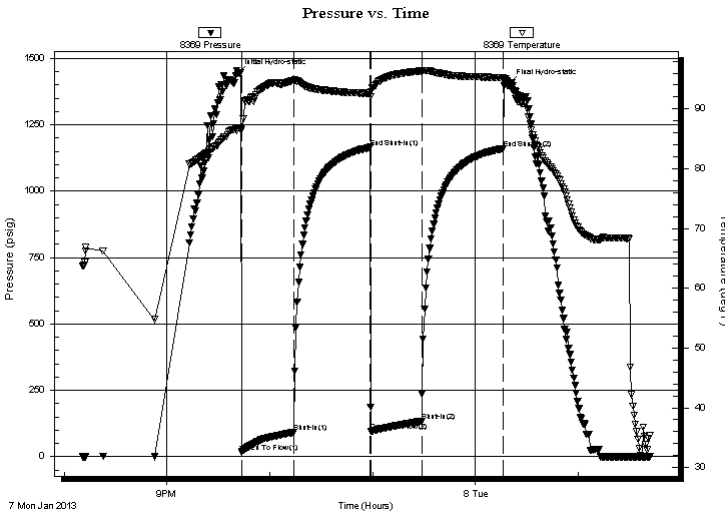
## Serial #: 8369

Inside

Press @ Run Depth: 134.36 psig @ 2976.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.01.07 End Date: 2013.01.08 Last Calib.: 2013.01.08  
 Start Time: 20:10:52 End Time: 01:42:01 Time On Btm: 2013.01.07 @ 21:41:32  
 Time Off Btm: 2013.01.08 @ 00:19:32

TEST COMMENT: 30-IFP-w k to strg in 12 min  
 45-ISIP-no bl  
 30-FFP-w k to strg in 25 min  
 45-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1443.59	86.68	Initial Hydro-static
2	18.11	86.57	Open To Flow (1)
33	91.73	94.79	Shut-In(1)
77	1165.01	92.64	End Shut-In(1)
78	95.56	92.90	Open To Flow (2)
107	134.36	96.36	Shut-In(2)
155	1160.39	95.25	End Shut-In(2)
158	1404.02	93.93	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	Water	1.43
75.00	MW 15%MB5%W	1.05

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Brinker Enterprises LLC

**29-7s-16w Rooks,KS**

216 S. Marshall St.  
Glen Elder KS 67446

**Bracy Jones #1**

Job Ticket: 51626

**DST#: 5**

ATTN: Lee Brinker

Test Start: 2013.01.07 @ 20:10:52

## Tool Information

Drill Pipe:	Length: 2844.00 ft	Diameter: 3.80 inches	Volume: 39.89 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:	55000.00 lb
			<u>Total Volume: 40.48 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	34000.00 lb
Depth to Top Packer:	2975.00 ft			Final	36000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	25.00 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			2955.00	
Shut In Tool	5.00			2960.00	
Hydraulic tool	5.00			2965.00	
Packer	5.00			2970.00	21.00 Bottom Of Top Packer
Packer	5.00			2975.00	
Stubb	1.00			2976.00	
Recorder	0.00	8369	Inside	2976.00	
Recorder	0.00	8700	Outside	2976.00	
Perforations	21.00			2997.00	
Bullnose	3.00			3000.00	25.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>46.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Brinker Enterprises LLC

29-7s-16w Rooks,KS

216 S. Marshall St.  
Glen Elder KS 67446

Bracy Jones #1

Job Ticket: 51626

DST#: 5

ATTN: Lee Brinker

Test Start: 2013.01.07 @ 20:10:52

### 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:

75000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.94 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	Water	1.432
75.00	MW 15%M85%W	1.052

Total Length: 255.00 ft      Total Volume: 2.484 bbl

Num Fluid Samples: 0

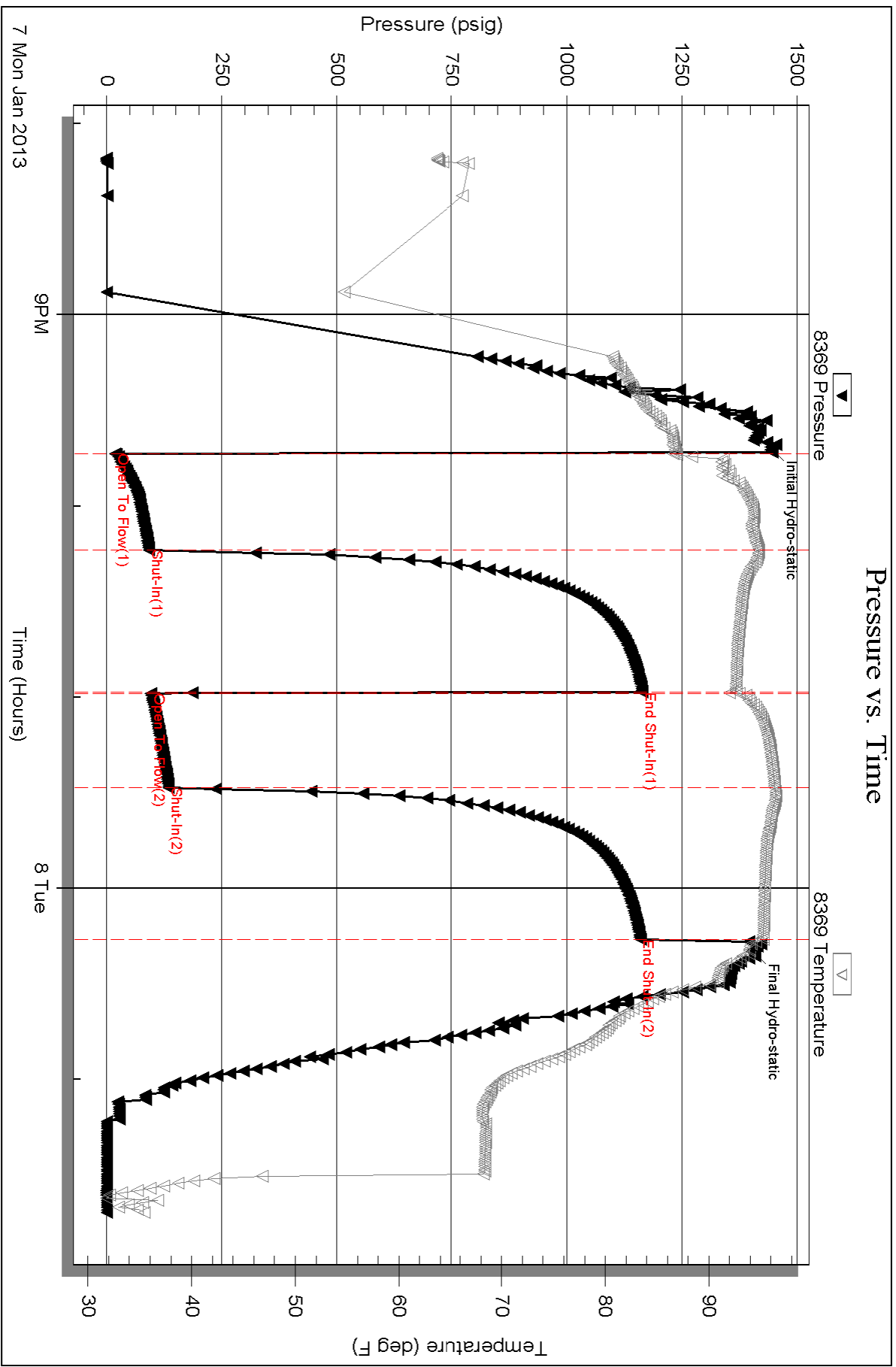
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW.13 @ 55F



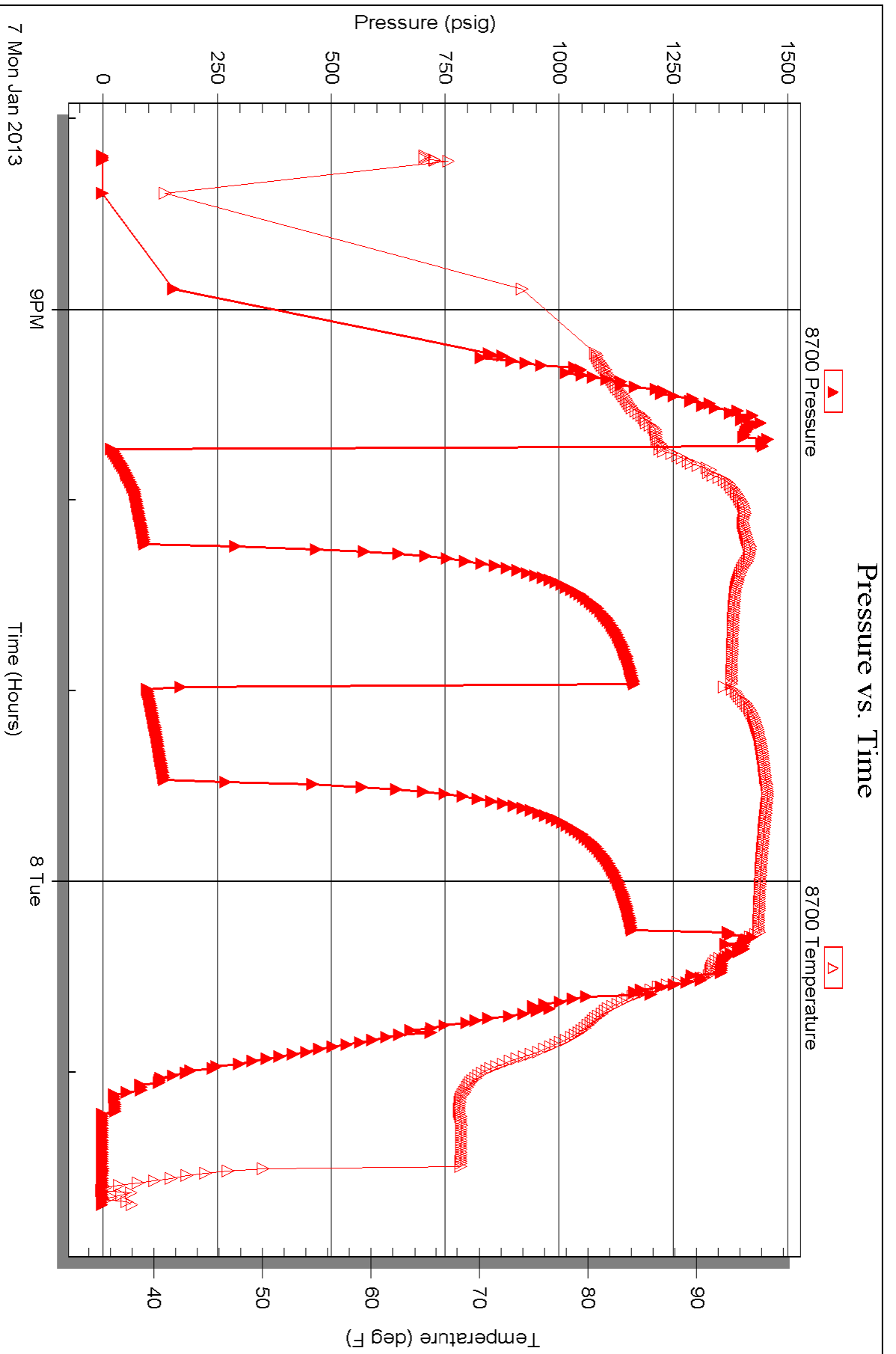


Serial #: 8700

Outside Brinker Enterprises LLC

Bracy Jones #1

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 51626

Printed: 2013.01.09 @ 11:33:55



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51522

4/10

Well Name & No. BRACY Jones #1 Test No. 1 Date 1-5-13  
 Company Brinker Enterprises LLC Elevation 1750 KB 1745 GL  
 Address 216 S MARSHALL ST. Glen Elder, Ks 67446  
 Co. Rep / Geo. Rich Bell Rig WWrig6  
 Location: Sec. 29 Twp. 7<sup>s</sup> Rge. 16<sup>w</sup> Co. Rooks State Ks

Interval Tested 2648-2678 Zone Tested Topeka  
 Anchor Length 30 Drill Pipe Run 2532 Mud Wt. 8.9  
 Top Packer Depth 2643 Drill Collars Run 120 Vis 56  
 Bottom Packer Depth 2648 Wt. Pipe Run - WL 7  
 Total Depth 2678 Chlorides 1700 ppm System LCM 2#  
 Blow Description IFP - STRONG Blow IN 1 min  
ITSP - 3/4" Blow BACK

FFP - STRONG Blow IN 1 min  
FSTP - STRONG Blow BACK IN 36 min

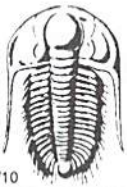
Rec	Feet of	%gas	%oil	%water	%mud
<u>215</u>	<u>GIP</u>				
<u>715</u>	<u>CO</u>				
<u>186</u>	<u>MGO</u>	<u>10</u>	<u>65</u>	<u>25</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 901 BHT 91 Gravity 29 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic	<u>1243</u>	<input checked="" type="checkbox"/> Test	<u>1150</u>	T-On Location	<u>1345</u>
(B) First Initial Flow	<u>152</u>	<input type="checkbox"/> Jars		T-Started	<u>1415</u>
(C) First Final Flow	<u>186</u>	<input type="checkbox"/> Safety Joint		T-Open	<u>1555</u>
(D) Initial Shut-In	<u>916</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>1810</u>
(E) Second Initial Flow	<u>213</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>2033</u>
(F) Second Final Flow	<u>302</u>	<input checked="" type="checkbox"/> Mileage	<u>110 RT</u> 170.50	Comments	<u>MOTEL</u>
(G) Final Shut-In	<u>816</u>	<input type="checkbox"/> Sampler		<input type="checkbox"/> Ruined Shale Packer	
(H) Final Hydrostatic	<u>1221</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Packer	
Initial Open	<u>15</u>	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Extra Copies	
Initial Shut-In	<u>45</u>	<input type="checkbox"/> Extra Packer		Sub Total	<u>0</u>
Final Flow	<u>30</u>	<input type="checkbox"/> Extra Recorder		Total	<u>1320.50</u>
Final Shut-In	<u>45</u>	<input type="checkbox"/> Day Standby		MP/DST Disc't	
		<input type="checkbox"/> Accessibility		Sub Total	<u>1320.50</u>

Approved By Richard Bell Our Representative RAY SCHWABER *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.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51523

4/10

Well Name & No. BRACY Jones #1 Test No. 2 Date 1-6-13  
 Company BRINKER Enterprises LLC Elevation 1750 KB 1745 GL  
 Address 216 S. Marshall ST. Glen Elder, Ks 67446  
 Co. Rep / Geo. Rich Bell Rig WW rig 6  
 Location: Sec. 29 Twp. 7<sup>s</sup> Rge. 16<sup>w</sup> Co. Rooks State Ks

Interval Tested 2678-2700 Zone Tested Deer Creek  
 Anchor Length 22 Drill Pipe Run 2563 Mud Wt. 8.9  
 Top Packer Depth 2673 Drill Collars Run 120 Vis 56  
 Bottom Packer Depth 2678 Wt. Pipe Run - WL 7  
 Total Depth 2700 Chlorides 1700 ppm System LCM 2#

Blow Description IFP - Strong Blow in 3 min  
ISIP - Strong Blow Back 30 min  
FIP - Strong Blow thru-out  
FSTIP - Strong Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>140</u>	<u>GIP</u>				
<u>540</u>	<u>CO</u>				
<u>124</u>	<u>M60</u>	<u>15</u>	<u>75</u>		<u>10</u>

Rec Total 664 BHT 92 Gravity 29 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1255  Test 1150 T-On Location 0140  
 (B) First Initial Flow 47  Jars \_\_\_\_\_ T-Started 0205  
 (C) First Final Flow 111  Safety Joint \_\_\_\_\_ T-Open 0340  
 (D) Initial Shut-In 1024  Circ Sub \_\_\_\_\_ T-Pulled 0610  
 (E) Second Initial Flow 121  Hourly Standby \_\_\_\_\_ T-Out 0843  
 (F) Second Final Flow 215  Mileage 170.50 Comments Motel  
 (G) Final Shut-In 978  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1239  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 15  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 30  Day Standby \_\_\_\_\_ Total 1320.50  
 Final Shut-In 60  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_

Approved By Richard Bell Our Representative RAY SCHWAB Thank you

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51524

4/10

Well Name & No. Bracy Jones #1 Test No. 3 Date 1-6-13  
 Company Brinker Enterprises LLC Elevation 1750 KB 1745 GL  
 Address 216 S. Marshall ST. Glen Elder, Ks 67446  
 Co. Rep / Geo. Rich Bell Rig WW rig 6  
 Location: Sec. 29 Twp. 7<sup>s</sup> Rge. 16<sup>w</sup> Co. Rooks State Ks

Interval Tested 2736-2770 Zone Tested Lecompton  
 Anchor Length 34 Drill Pipe Run \_\_\_\_\_ Mud Wt. 8.9  
 Top Packer Depth 2731 Drill Collars Run 120 Vis 42  
 Bottom Packer Depth 2736 Wt. Pipe Run — WL 7.2  
 Total Depth 2770 Chlorides 4000 ppm System LCM 2#

Blow Description TFP - STRONG BLOW 10 2min  
ISTP - 1/2" BLOW BACK  
FFP - WEAK TO A FAIR BLOW 1/2" TO 6" BLOW  
FSTP - 1/2" BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>MO</u>	<u>90</u>		<u>10</u>	
<u>186</u>	<u>56CMO</u>	<u>5</u>	<u>65</u>	<u>30</u>	
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 206 BHT 88 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1293  Test 1150 T-On Location 1540  
 (B) First Initial Flow 73  Jars \_\_\_\_\_ T-Started 1600  
 (C) First Final Flow 83  Safety Joint \_\_\_\_\_ T-Open 1720  
 (D) Initial Shut-In 100  Circ Sub \_\_\_\_\_ T-Pulled 2850  
 (E) Second Initial Flow 92  Hourly Standby \_\_\_\_\_ T-Out 2142  
 (F) Second Final Flow 97  Mileage 170.50 Comments Motel  
 (G) Final Shut-In 106  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1265  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1320.50  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_

Initial Open 15  
 Initial Shut-In 45  
 Final Flow 30  
 Final Shut-In 60  
 Sub Total 1320.50

Approved By Richard Bell Our Representative Ray Schwager *Thank you*

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51525

Well Name & No. BRACY Jones #1 Test No. 4 Date 1-7-13  
 Company BRINKER Enterprises LLC Elevation 1750 KB 1745 GL  
 Address 216 S. MARSHALL ST. Glen Elder, Ks 67446  
 Co. Rep / Geo. Rich Bell Rig WWrig 6  
 Location: Sec. 29 Twp. 7<sup>s</sup> Rge. 16<sup>w</sup> Co. Rooks State Ks

Interval Tested 2888 - 2916 Zone Tested LKC A  
 Anchor Length 28 Drill Pipe Run 2778 Mud Wt. 9  
 Top Packer Depth 2883 Drill Collars Run 120 Vis 50  
 Bottom Packer Depth 2888 Wt. Pipe Run — WL 7.2  
 Total Depth 2916 Chlorides 4000 ppm System LCM 2#

Blow Description TFP - Weak Blow, died in 18 min  
ISTP - NO Blow  
FFP - NO Blow  
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1 BHT 87 Gravity — API RW — @ — °F Chlorides — ppm

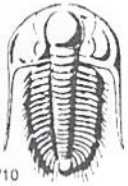
(A) Initial Hydrostatic 1376  Test 1150 T-On Location 0750  
 (B) First Initial Flow 9  Jars T-Started 0800  
 (C) First Final Flow 11  Safety Joint T-Open 0920  
 (D) Initial Shut-In 15  Circ Sub T-Pulled 1105  
 (E) Second Initial Flow 10  Hourly Standby T-Out 1206  
 (F) Second Final Flow 11  Mileage 170.50 Comments MOTEL  
 (G) Final Shut-In 15  Sampler  
 (H) Final Hydrostatic 1359  Straddle  Ruined Shale Packer  
 Shale Packer  Ruined Packer  
 Extra Packer  Extra Copies

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 15  
 Final Shut-In 30

Sub Total 0  
 Total 1320.50  
 MP/DST Disc't

Approved By Richard Bell 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.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51626

Well Name & No. BRACY JONES #1 Test No. 5 Date 1-7-13  
 Company Brinker Enterprises LLC Elevation 1750 KB 1745 GL  
 Address 216 S. MARSHALL ST. GLEN ELDER, KS 67446  
 Co. Rep / Geo. Rich Bell Rig WW rig 6  
 Location: Sec. 29 Twp. 7<sup>S</sup> Rge. 16<sup>W</sup> Co. Rooks State Ks

Interval Tested 2975-3000 Zone Tested LKC E, F  
 Anchor Length 25 Drill Pipe Run 2844 Mud Wt. 9.2  
 Top Packer Depth 2970 Drill Collars Run 120 Vis 51  
 Bottom Packer Depth 2975 Wt. Pipe Run — WL 7  
 Total Depth 3000 Chlorides 3500 ppm System LCM 2#

Blow Description IFP - WEAK TO STRONG BLOW IN 12 MIN  
ISIP - NO BLOW  
FFP - WEAK TO A ~~STRONG~~ BLOW, SURFACE TO STRONG IN 25 MIN  
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>75</u>	<u>MW</u>		<u>85</u>	<u>15</u>	
<u>180</u>	<u>WATER</u>				

Rec Total 255 BHT 95 Gravity — API RW .13 @ 55 °F Chlorides 75000 ppm

(A) Initial Hydrostatic 1443  Test 1150 T-On Location 1955  
 (B) First Initial Flow 18  Jars \_\_\_\_\_ T-Started 2610  
 (C) First Final Flow 91  Safety Joint \_\_\_\_\_ T-Open 2140  
 (D) Initial Shut-In 1165  Circ Sub \_\_\_\_\_ T-Pulled 0010  
 (E) Second Initial Flow 95  Hourly Standby \_\_\_\_\_ T-Out 0142

(F) Second Final Flow 134  Mileage 170.50 Comments MOTEL  
 (G) Final Shut-In 1160  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1404  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 45  Ruined Packer \_\_\_\_\_  
 Final Flow 30  Extra Copies \_\_\_\_\_  
 Final Shut-In 45  Sub Total 0  
 Sub Total 1320.50 Total 1320.50  
 MP/DST Disc't \_\_\_\_\_

Approved By Richard Bell Our Representative RAY Schurager *hart*

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**COMPLETION  
& PRODUCTION  
SERVICES CO.**

**COMPENSATED  
DENSITY/NEUTRON  
LOG**

Company BRINKER ENTERPRISES, LLC.  
Well BRACY JONES #1  
Field  
County ROOKS  
State KANSAS

Company BRINKER ENTERPRISES, LLC.  
Well BRACY JONES #1  
Field  
County ROOKS State KANSAS

Location: API # : 15-163-24097-0000  
580' FNL & 1095' FEL  
SEC 29 TWP 7S RGE 16W  
Permanent Datum GROUND LEVEL Elevation 1745  
Log Measured From KELLY BUSHING 5' A.G.L.  
Drilling Measured From KELLY BUSHING  
Other Services DIL/MEL  
Elevation  
K.B. 1750  
D.F. 1748  
G.L. 1745

Date	1/11/13		
Run Number	ONE		
Depth Driller	3351		
Depth Logger	3350		
Bottom Logged Interval	3326		
Top Log Interval	2400		
Casing Driller	8 5/8" @ 1064		
Casing Logger	1063		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3700 PPM	
Density / Viscosity	9.1/50		
pH / Fluid Loss	10.5/7.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.80 @ 60F		
Rmt @ Meas. Temp	.60 @ 60F		
Rmc @ Meas. Temp	.96 @ 60F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.43 @ 110F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	110F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	RICHARD BELL		

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

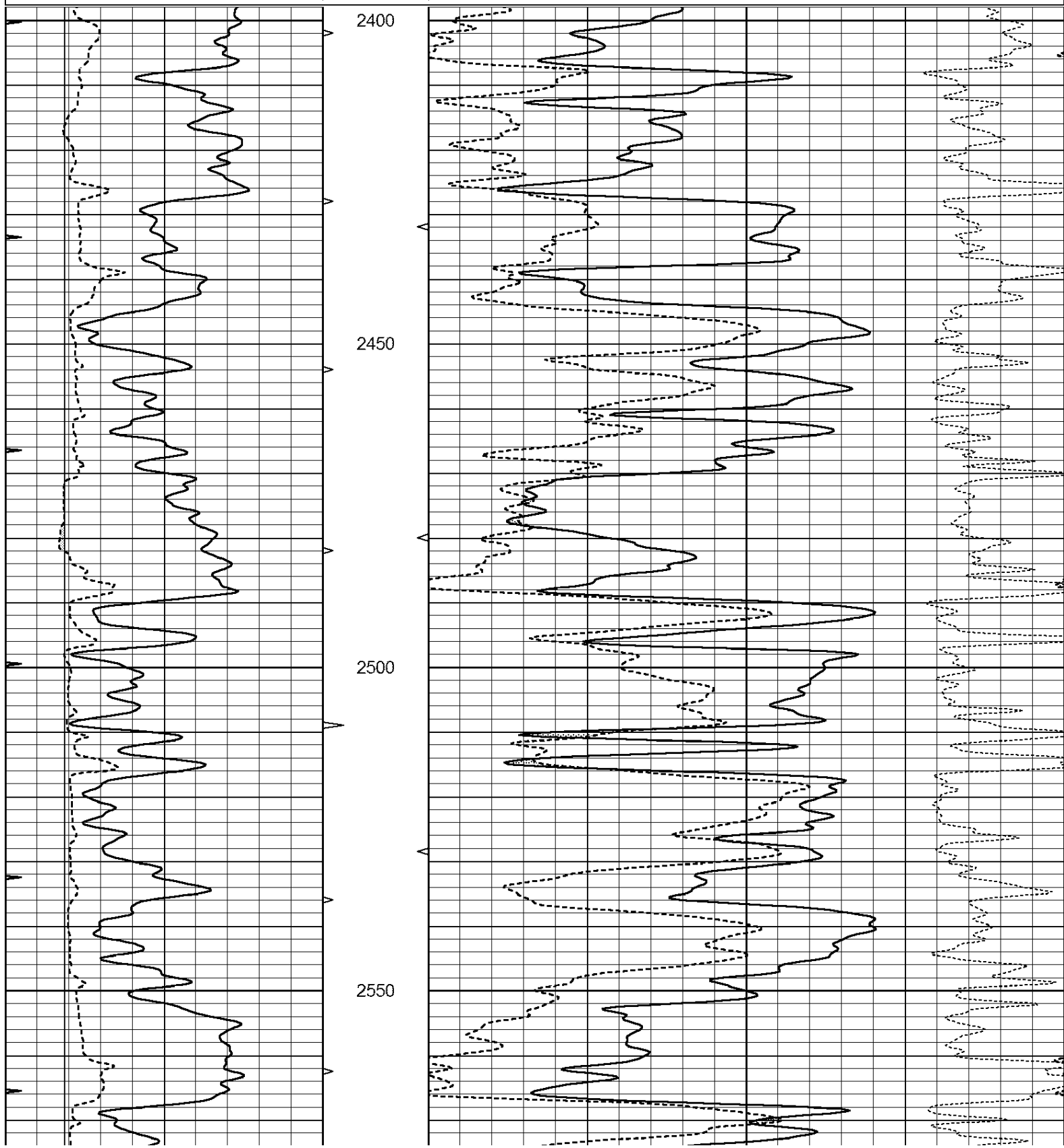
THANK YOU FOR USING NABORS HAYS, KANSAS (785) 628-6395  
DIRECTIONS  
WOODSTON, KS. - S. TO CURVE - 1/4 W. TO NEXT CURVE S. - 1 S. - E. INTO



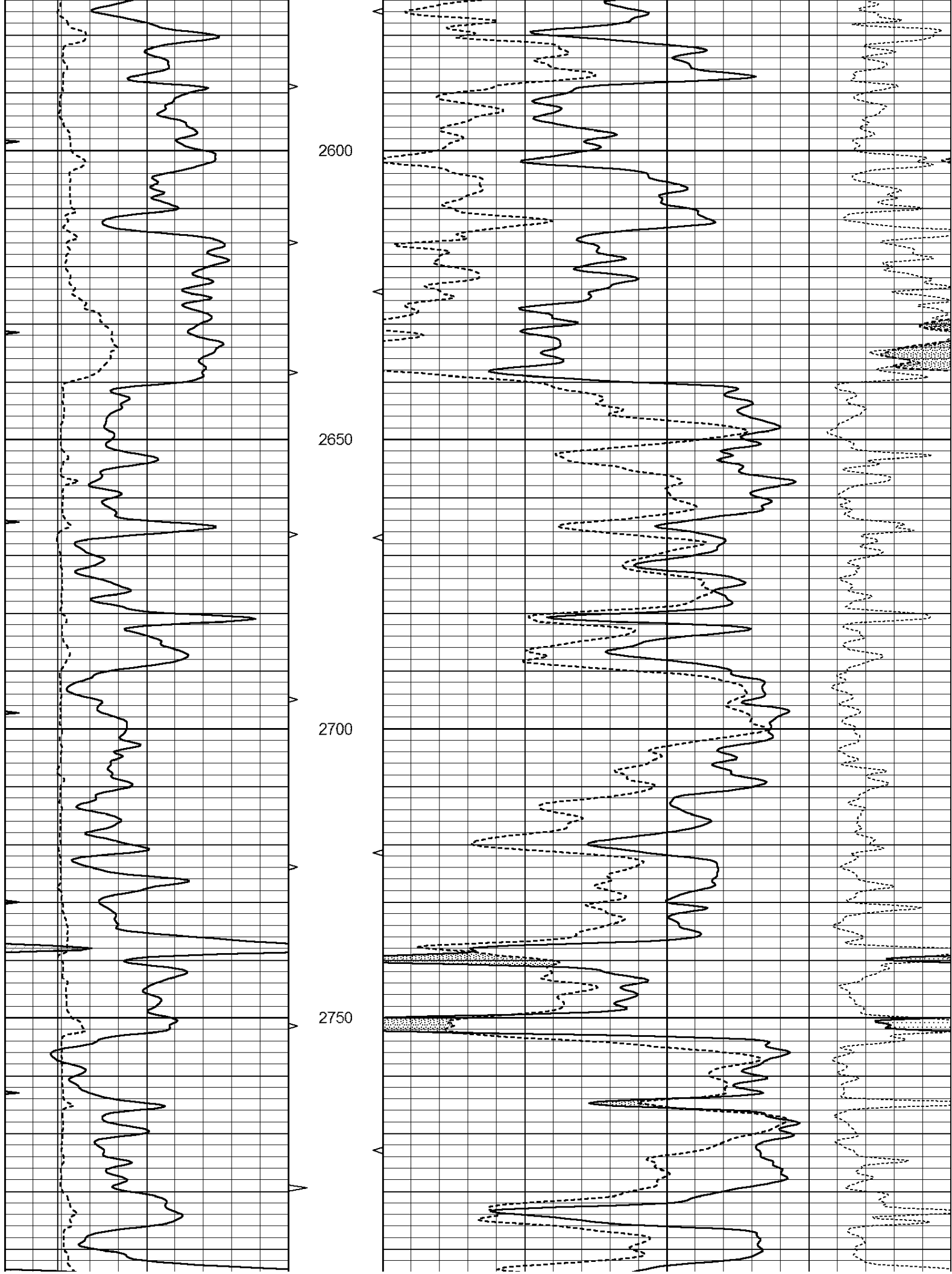
**MAIN SECTION**

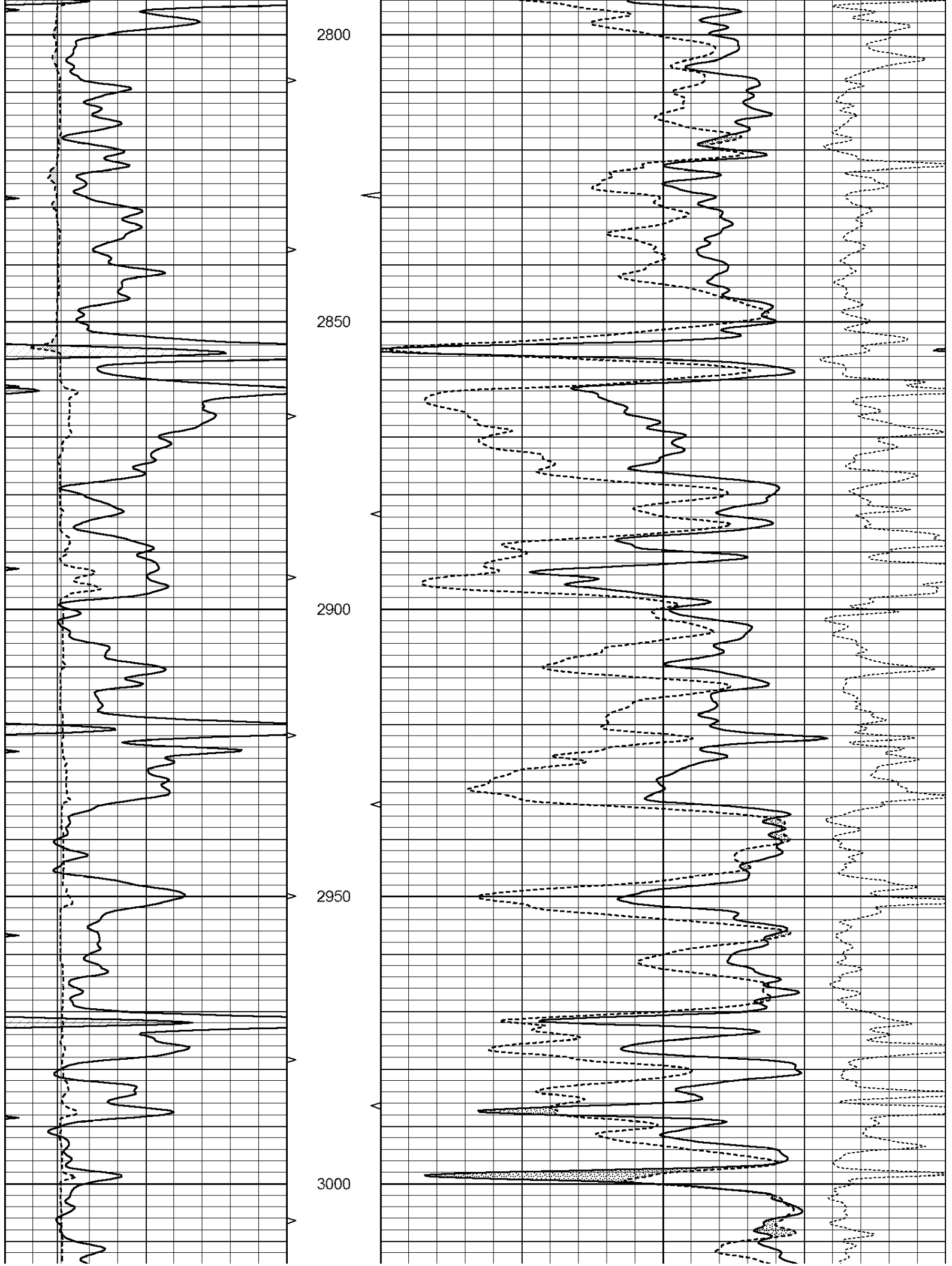
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 Dataset Creation: Fri Jan 11 03:06:57 2013 by Calc Open-Cased 090629  
 Charted by: Depth in Feet scaled 1:240

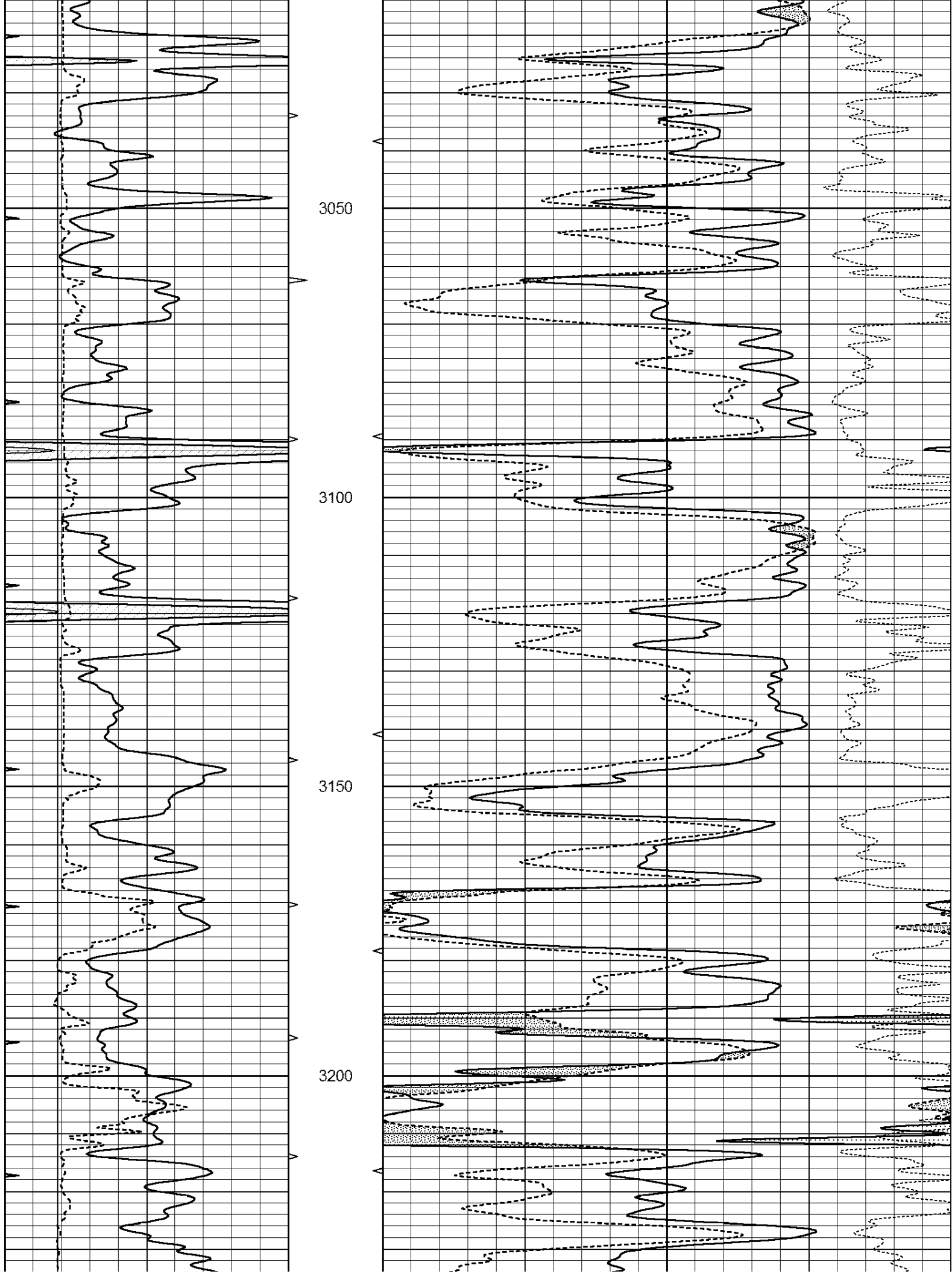
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		

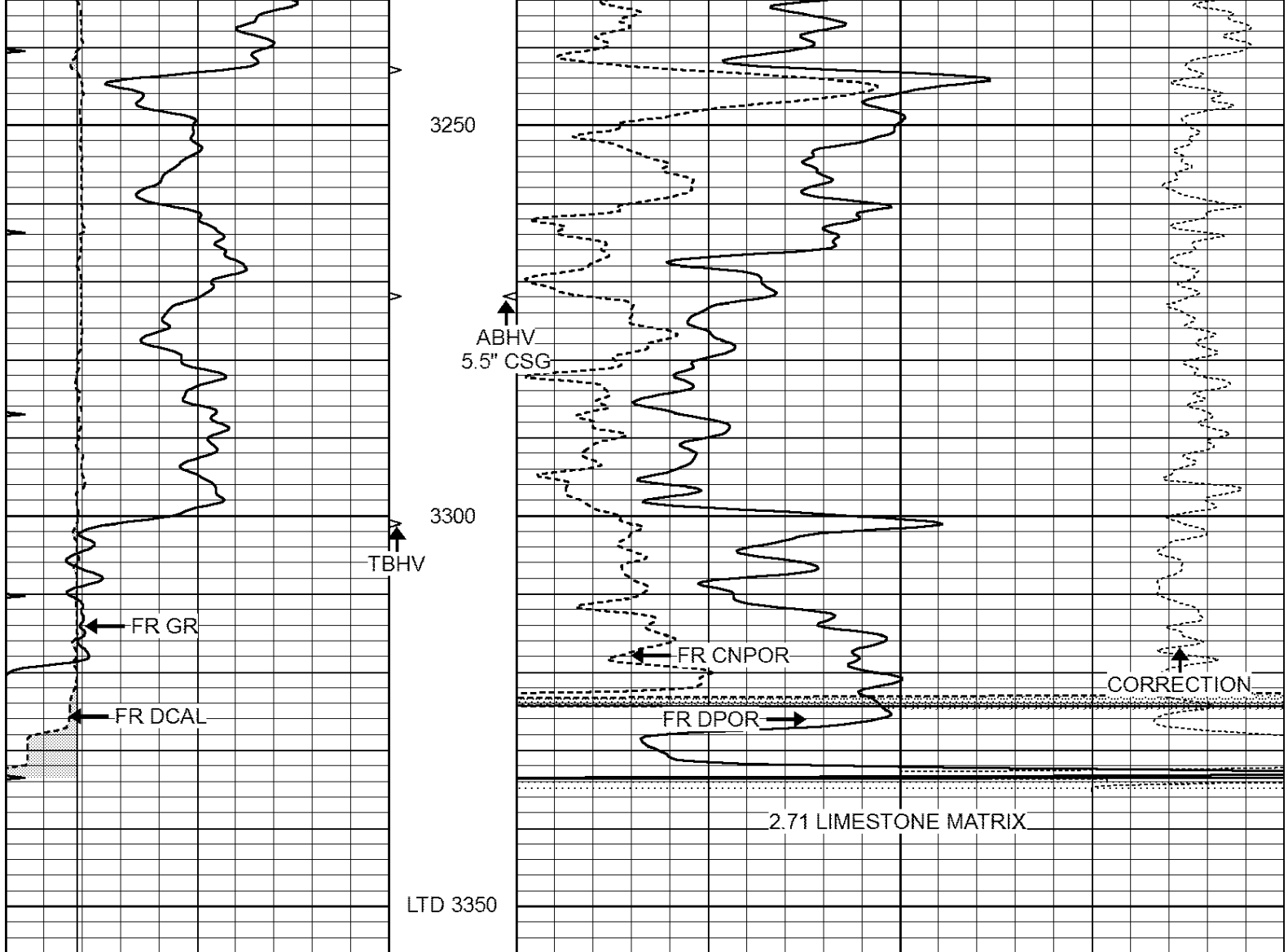












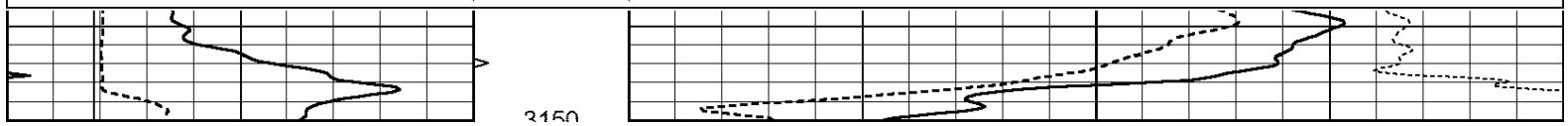
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25	CORRECTION (g/cc) 0.25
			0 (ft3)	10		

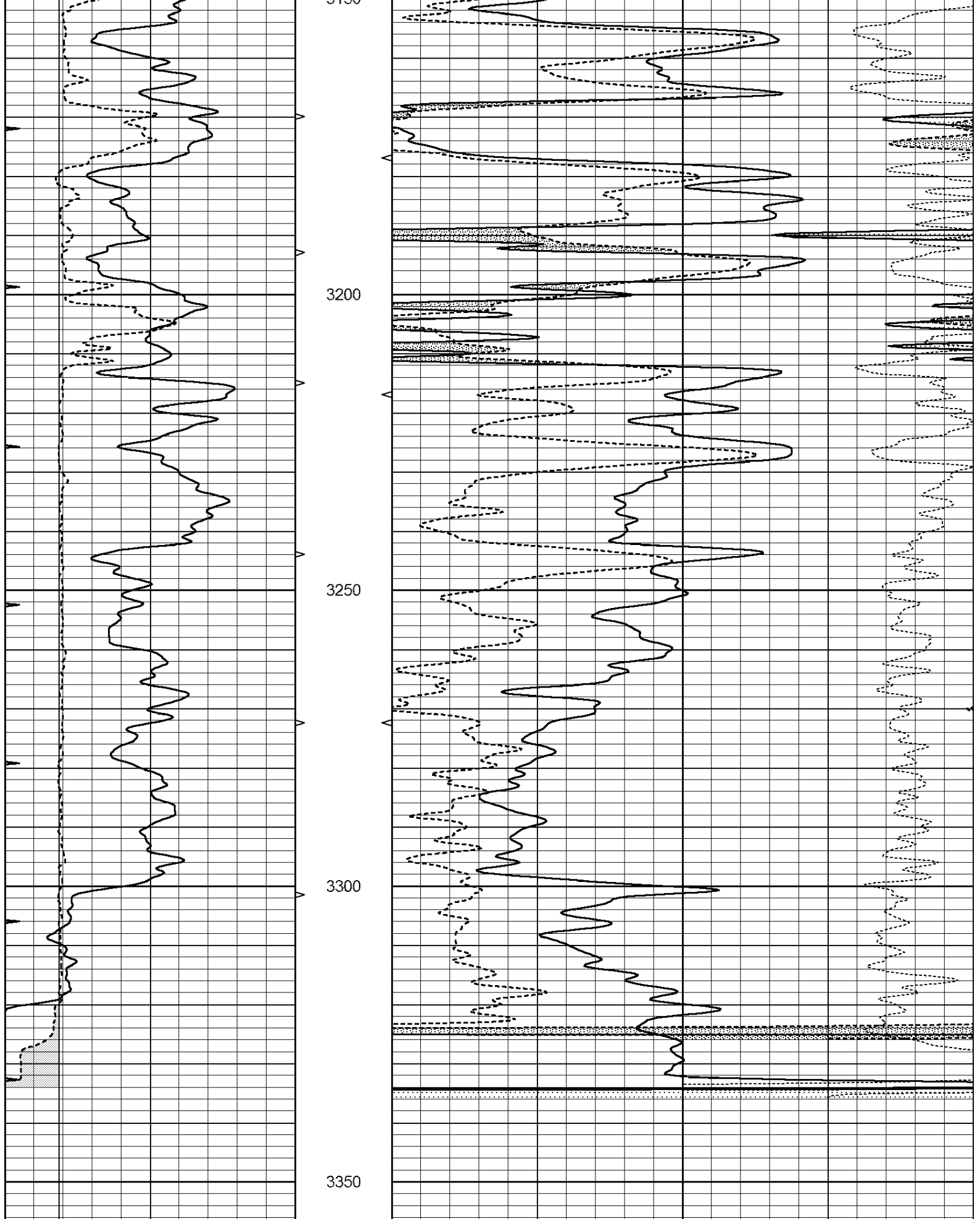


# REPEAT SECTION

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 Presentation Format: den\_neu  
 Dataset Creation: Fri Jan 11 03:10:36 2013 by Calc Open-Cased 090629  
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25	CORRECTION (g/cc) 0.25
			0 (ft3)	10		





0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25

## Calibration Report

Database File: 009800ddn.db  
 Dataset Pathname: pass2.1  
 Dataset Creation: Fri Jan 11 03:10:36 2013 by Calc Open-Cased 090629

## Dual Induction Calibration Report

Serial-Model: PROBE8-DILG  
 Surface Cal Performed: Fri Aug 01 06:33:19 2008  
 Downhole Cal Performed: Mon Jul 28 11:08:27 2008  
 After Survey Verification Performed: Mon Jul 28 11:08:27 2008

## Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.015	0.708	V	0.000	400.000	mmho/m	577.788	-8.886
Medium	0.029	0.776	V	0.000	464.000	mmho/m	621.251	-18.153
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619
Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739

## Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	2.011	405.777	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	7.590	503.393	mmho/m	1.000	0.000
LL3		7.500	V		1500.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		3800.000	mmho-m		

## After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		

## Compensated Density Calibration Report

Serial-Model: GEAR3-GEARHART  
 Source / Verifier: 143 / 143  
 Master Calibration Performed: Fri Jan 04 15:48:16 2013  
 Before Survey Verification Performed:  
 After Survey Verification Performed:

## Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	935.36	501.55	cps
Aluminum	2.580	g/cc	209.32	357.01	cps

Spine Angle = 77.21

Density/Spine Ratio = 0.567

Size

Reading

Small Ring	8.00	in	4.29	V
Large Ring	14.00	in	6.24	V

Before Survey Verification				
	<u>Target</u>		<u>Measured</u>	
		g/cc		g/cc
		g/cc		g/cc
		g/cc		g/cc

After Survey Verification				
	<u>Target</u>		<u>Measured</u>	
		g/cc		g/cc
		g/cc		g/cc
		g/cc		g/cc

Compensated Neutron Calibration Report

Serial Number:	6I
Tool Model:	G

CALIBRATION						
	Detector	Readings		Target		Normalization
	Short Space	1.00	cps	1.00	cps	1.0000
	Long Space	1.00	cps	1.00	cps	1.0000

PRE-SURVEY VERIFICATION						
	Detector	Readings		Measured		Target
1)	Short Space		cps			
	Long Space		cps	pu		pu
2)	Short Space		cps			
	Long Space		cps	pu		
3)	Short Space		cps			
	Long Space		cps	pu		

POST-SURVEY VERIFICATION						
	Detector	Readings		Measured		Target
1)	Short Space		cps			
	Long Space		cps	pu		pu
2)	Short Space		cps			
	Long Space		cps	pu		pu
3)	Short Space		cps			
	Long Space		cps	pu		pu

Gamma Ray Calibration Report

Serial Number:	#8
Tool Model:	OPEN
Performed:	Mon Jun 13 16:56:43 2011
Calibrator Value:	150.0
	GAPI
Background Reading:	0.0
Calibrator Reading:	175.0
	cps
	cps
Sensitivity:	0.8371
	GAPI/cps

