



Confidentiality Requested:

Yes  No

## 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:

<input type="checkbox"/> New Well	<input type="checkbox"/> Re-Entry	<input type="checkbox"/> Workover
<input type="checkbox"/> Oil	<input type="checkbox"/> WSW	<input type="checkbox"/> SWD
<input type="checkbox"/> Gas	<input type="checkbox"/> D&A	<input type="checkbox"/> ENHR
<input type="checkbox"/> OG	<input type="checkbox"/> GSW	<input type="checkbox"/> Temp. Abd.
<input type="checkbox"/> CM <i>(Coal Bed Methane)</i>		
<input type="checkbox"/> Cathodic <input type="checkbox"/> Other <i>(Core, Expl., etc.):</i> _____		

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

<input type="checkbox"/> Deepening	<input type="checkbox"/> Re-perf.	<input type="checkbox"/> Conv. to ENHR	<input type="checkbox"/> Conv. to SWD
<input type="checkbox"/> Plug Back	<input type="checkbox"/> Conv. to GSW	<input type="checkbox"/> Conv. to Producer	
<input type="checkbox"/> Commingled	Permit #: _____		
<input type="checkbox"/> Dual Completion	Permit #: _____		
<input type="checkbox"/> SWD	Permit #: _____		
<input type="checkbox"/> ENHR	Permit #: _____		
<input type="checkbox"/> GSW	Permit #: _____		

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

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

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

#### Drilling Fluid Management Plan

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

#### AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

#### KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*  
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*  
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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

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

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

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	K3 Oil & Gas Operating Company
Well Name	Eaton 3-18
Doc ID	1322571

All Electric Logs Run

DIL
CNL-FDC
Micro
Sonic



# *Brett's Consulting Service*

Completions – Workovers – General Systems Setup

Brett Hildebrand 1104 Nixon Dr. Norton, Ks. 67654

Cell. - 785- 871- 7311

Office: 785- 877- 5331

Directions: Shields K4 & Hwy.23, Karl road, 2 N., 1 W., N. into through gates

8/08/15

Eaton #3-18 – Escorted pipe into location & unloaded – brought Allied in to location - Figured pipe tally – Duke Drilling Rig #4 ran 107 jts. new MW 55,LS 5 1/2", 15.5# csg. – tagged bttm. @4534', poss. tally off - RTD = 4540', LTD = 4540' – plugged pipe & had to raise 15' to get circ. & was sticking - landed guide shoe @4532' w/ insert @4490', DV @2002' - circ. f/ 30 min., dropped ball & when ball was through, pumped 80 bbl. Desco flush w/ good circ. – RU Allied Cementing - pumped 500 gal. mud flush & 20 bbl. KCL wtr. – started cmt., pumped 150 sxs. ASC, 2% gel, 10% salt, 5# gilsonite – start dis. & plug w/ 56 bbl. wtr. & 51 bbl. mud, landed plug @2:25 p.m. w/ 1800#, 800# lift & held – dropped opening tool – opened DV w/ 800# & circ. f/ 1 hr. w/ good circ. – plugged rat hole w/ 30 sxs. – started top stage – mixed & pumped 370 sxs. 65/35 poz., 6% gel, 1/4# floreal – started top plug & lost circ. – pumped 10 bbl. & shut dwn. 30 min. – resumed pumping @ 1/3 BPM, 100#, shut dwn. 30 more min. – resumed pumping 1/3 BPM, 350#, built to 1/2 BPM, 1100#, no circ. - dis. w/ 49 bbl. wtr., land plug @6:30 p.m. w/ 2100#, 1200# lift & held – RD Allied, landed in slips – SD.

Cement did not circ.

RTD: 4540', LTD: 4540'

Prod. Csg: 5 1/2", 15.5# set @4538' w/ 150 sxs. Common, 2% gel.

Guide Shoe: 4538', Shoe Jt. = 42.47' w/ insert @4494'

DV Tool: @2002' w/ 350 sxs. 65/35 poz. w/ 6% gel, did not circ.

Centralizers: 4494', 4409', 4325', 4239', 4155', 4090', 4011', 3926', 3841', 3760', 2048'

Baskets: 4494', 4009', 2048' & 1028'

8/24/15

Eaton #3-18 - RU Perf Tech portable mast - ran bond log on top f/ DV @2002' to surface & TOC @50' FS, good cement @100' FS, 305' 8 5/8" - sent logs to KCC - approved by Mike Myers, KCC w/ note to press. 8 5/8" to 200# @time of completion - Flatlander Dirt on location, plumbed 1 side to surface & back filled cellar - RDMO.

11/17/16

Eaton #3-18 - MIRU Alliance Well Serv. - Golden B delivered steel pit - Central Supply delivered 2 7/8" tbg. & unloaded tbg. - GW Oilfield Serv. delivered swab tank - Walker Tank brought in load of water - RU csg. swab & swabbed 600' out of csg. so to not have displacement while running tbg. - TIH w/ used 4 7/8" rock bit & bit sub, tagged DV @2001' - SDON.

11/18/16

Eaton #3-18 - RU Golden B pump & swivel - drilled up DV @2002' in 4.5 hrs. - reamed out & cleaned up all but one minor bad spot, that wouldn't clean up - circ. 20 min. & RD swivel - ran bit to TD @4494' - RU swivel & circ. f/ 1 hr. - RD pump & swivel - TOH w/ bit & sub - SDOWE.

11/21/16

Eaton #3-18 - RU Excel Wireline to run CBL & CCL, LTD @4494', TOC @3080' & DV @2004' - had possible basket failure, cement scattered f/ 2800' to sur. - NAH oil Tools on location, ran tools to DV to make sure they wouldn't hang - tools went through, TOH w/ tools - RU csg. swab & swab dwn. to 3300' FS in 2.5 hrs. - RU loggers to perf. Ft. Scott @4330-32', LKC "H" 4006-09' & "F" 3914-19' @ 4spf w/ 4" HEC w/ 39 gr. charges - TIH w/ tools to iso. Ft. Scott, PKR @4323' - ran swab, 1000' FIH w/ 200' oil on top - next run dry, SDON.

11/22/16

Eaton #3-18 - Ft. Scott 4330-32', PKR @4323' - ran swab 50' FIH w/ trace of oil - RU Pro Stim to spot 12.75 bbl. - let equal. & set PKR to treat w/ 250 gal. 15% MCA - acid on bttm. = loaded .6 bbl. late, acid across perms. - staged to 800# max. over 1 hr. & 10 min. & had 1 1/2 bbl. out, then started feeding @ 1/4 BPM, 620# - w/ 3 out = 1/4 BPM, 570# - w/ 6 out = 1/4 BPM, 580# - ISIP = 580#, 5 min. = 350#, 10 min. = 320#, 15 min. = 290# - bled back 1/4 bbl. - ran swab FL @sur., swabbed dry in 6 runs, rec. 25 of 31.28 load, all wtr. - cleared acid off ann. in 3 runs - reset PKR & swabbed dry - let set 30 min. & was dry - RU Pro Stim to retreat w/ 1,000 gal. 15% NE FE w/ claystay - acid on bttm. = loaded, started pumping @ 1/2 BPM, 650# - w/ 2 out = 1/2 BPM, 540# - w/ 8 out = 1/2 BPM, 530# - w/ 16 out = 1/2 BPM, 550# - w/ 24 out = 1/2 BPM, 540# - ISIP = 520#, 5 min. = 370#, 10 min. = 360#, 15 min. = 350# - bled back 1/4 bbl. - ran swab FL @ sur., swabbed dwn. to 25' FIH, rec. 26.5 of 49.28 load, all wtr. - SDON.

11/23/16

Eaton #3-18 - Ft. Scott 4330-32', PKR @4323' - ran swab 500' FIH, 350' oil on top = 70% oil - next run 25' FIH, approx.. 10% oil - moved to "H" 4006-09', RU Pro Stim to spot 10 bbl. - let equal. & set PKR @3998' to treat w/ 250 gal. 15% MCA - acid on bttm. = loaded 1.5 bbl. late, acid across perms., on vac. @ 1/2 BPM - w/ 4 out = .4 BPM, vac. - w/ 6 out = .4 BPM, vac. - let set 20 min. FL @500' FS, swabbed dwn. to 800' FIH, rec. 32.48 BTF, 2.98 bbl. over load w/ 95% oil - start test @4pph rec. 12.47 BTF, 550' FIH w/ 95% oil - cleared acid off ann. in 3 runs, reset PKR & made 1 run - RU Pro Stim to retreat w/ 1,000 gal. 15% NE FE w/ 2% MAS & claystay - acid on bttm. = .6 BPM, vac. - w/ 6 out = .7 BPM, vac., started pumping @ 1 BPM, 140# & climbing - w/ 8 out = 1 BPM, 290# - w/ 9 out = 1 BPM, 360#, slowed to .65 BPM, 250# - w/ 10 out = .65 BPM, 230# - w/ 16 out = .65 BPM, 270# - w/ 20 out = .65 BPM, 280# - w/ 24 out = .65 BPM, 300# - ISIP = 290#, 2 min. = 80#, 3.5 min. = 0, 4 min. = vac. - let set 20 min., FL @350' FS, swabbed dwn. to 900' FIH, rec. 46.4 of 47.44 load w/ 90% oil - SDOH.

11/25/16

Eaton #3-18 - "H" 4006-09', PKR @3998' - ran swab FL @1400' FS, 2600' FIH, all oil - swabbed dwn. to 800' FIH, rec. 27.84 BTF, 95% oil - start test:  
1<sup>st</sup> hr. @4pph rec. 13.63 BTF, 600' FIH w/ 95% oil  
2<sup>nd</sup> hr. @4pph rec. 8.99 BTF, 500' FIH w/ 95% oil  
3<sup>rd</sup> hr. @4pph rec. 8.12 BTF, 450' FIH w/ 95% oil  
4<sup>th</sup> hr. @4pph rec. 8.12 BTF, 450' FIH w/ 95% oil - moved to "F" 3914-19', RU Pro Stim to spot 4.6 bbl. - let equal. & set PKR @3901' to treat w/ 250 gal. 15% MCA w/ clay stay - acid on bttm. = loaded .70 bbl. late, acid across perms., on very slight vac.(VSLV) - w/ 1 out = started staging @200# w/ SBO - w/ 2 out = staging @200# - after 30 min., incr. to 300# - w/ 4 out = staging @300# - after 1 hr., incr. to 400# - w/ 6 out = staging @400# - ISIP = 400#, 5 min. = 190#, 10 min. = 100#, 15 min. = 50# - bled back 1/4 bbl. - ran swab FL @sur., swabbed dwn. to 200' FIH, rec. 29.70 BTF, .65 bbl. over load w/ 90% oil - cleared acid off ann. in 3 runs, reset PKR & made 1 run, all oil - SDOWE.

11/28/16

Eaton #3-18 - "F" 3914-19', PKR @3901' - ran swab FL @2,000' FS, 1900' FIH w/ 875' oil on top = 43% oil - swabbed dwn. to 150' FIH, rec. 15.95 BTF w/ 73% oil - start test:  
1<sup>st</sup> hr. @3pph rec. 2.32 BTF, 160' FIH w/ 95% oil  
RU Pro Stim to retreat w/ 1,000 gal. 15% NE FE w/ 2% MAS & claystay - acid on bttm. = 1.2 BPM, vac. - w/ 4 out = loaded, on vac. @ 1/4 BPM - w/ 6 out = .1 BPM, vac., started pumping @ 1/4 BPM - w/ 8 out = 1/4 BPM, 400# - staged 2 times & resumed pumping @ 1/4 BPM, 420# & climbing - w/ 10 out = 1/4 BPM, 450# - w/ 14 out = 1/4 BPM, 480# - w/ 17 out = 1/4 BPM, 500# - w/ 24 out = 1/4 BPM, 540# - over flushed w/ .7 bbl. - ISIP = 530#, 10 min. = 310#, 20 min. = 180#, 30 min. = 80# - bled back 1/4 bbl. - ran swab FL @ sur., swabbed dwn. to 325' FIH, rec. 49.59 BTF, 2.55 bbl. over load w/ 20% oil - made 3 more runs, rec. 4.93 BTF, 300' FIH w/ 15% oil - SDON.

**11/29/16**

**Eaton #3-18 - "F" 3914-19', PKR @3901' - ran swab FL @1750' FS, 2151' FIH w/ 75' oil on top = 3% oil - swabbed down to 375' FIH, rec. 29.36 BTF w/ 12% oil - start test:**

**1<sup>st</sup> hr. @4pph rec. 9.86 BTF, 400' FIH w/ 6% oil**

**2<sup>nd</sup> hr. @4pph rec. 9.57 BTF, 400' FIH w/ 7% oil**

**3<sup>rd</sup> hr. @4pph rec. 9.57 BTF, 400' FIH w/ 6% oil**

**4<sup>th</sup> hr. @4pph rec. 9.57 BTF, 400' FIH w/ 7% oil - TOH w/ tools - SDON.**



# Completion Procedure

## Eaton 3-18 well, Lane County, Kansas

879' FNL 1966' FWL 16S-28W sec 18

November 15, 2016

Drillers TD: 4540' (per loggers)

Surface Csg: 8 5/8", 24# set 7 jts. @ 304' w/ class "A" cement.

Prod. Csg: 107 jts, 5 1/2", 15.5#, MW-55 csg. LTD & RTD @ 4540'. Bottom Stage: 150 sx Class "A" Cemented, 10% salt, 5% gilsonite at 9/21/2015.

DV Tool: Set @ 2002' w/ 350 sx CMD.

Cement Pumped by Allied Services.

Based on subject well's Open hole log and the well's DST evaluation, the following zones will be tested based on production results. *This completion procedure is based on the well's open hole logs run on 08/7/2015. Perforation depths are based on Weatherford Compact Photo Density Compensated Neutron Micro Resistivity Log, dated 08/7/15 as well as DST data information taken during the drilling operations*

Test #	Zone	Perfs	Ft.
1	Ft. Scott	4,330-4332	2
2	Lansing 'H'	4,006-4,009	3
3	Lansing 'F'	3,914-3,919	5

1. Level up location and set anchors. Rig up workover rig.
2. Drill out DV tool at 2,002'
3. Make bit trip to bottom as deemed necessary.
4. POOH with bit.
5. Run CBL & CCL
6. RU csg swab & swab down to 3400'.
7. RU loggers to perforate. Trip in hole with 4" csg guns. Perforate intervals 4,330-4,332, 4,006-4,009 & 3,914-3,919'. POOH and LD Csg guns.
8. Pick up retrievable packer plug assembly to isolate zones. RIH w/same. **Isolate Ft. Scott zone**
9. Rig up pressure pumping truck. Acidize Ft. Scott zone. Acidize with 250 gal 15% MCA. Swab back. Acidize with 1000 gal of 15% HCL + additives as recommended. Swab back. \*NOTE: Record pressures and pump rates and note pressure breaks if any.
10. Swab test well, recording all swab runs. Recover acid volume and record oil cut.
11. Unseat isolation tool and move to isolate Lansing 'H'. Repeat acidizing procedure (step 9)
12. Unseat isolation tool and move to isolate Lansing 'F'. Repeat acidizing procedure (step 9)
13. POOH with tubing and isolation assembly. LD same.

14. PU tbg anchor, and RIH w/same. Set tbg anchor. PU rods, pump assembly and run in hole w/same
15. RD workover rig
16. Put well on production

**Contact Numbers:**

- 1) K3 Oil and Gas: 832-813-8558 (Office Main phone)  
John Rigas: 832-813-8496 (Office), 281-610-5994 (Cell)  
Alex Warmath: 832-813-5985 (Office), 281-387-6764 (Cell)  
K3 Office fax: 832-234-0825
  
  - 2) Log-Tech Wireline: (785) 625-3858
  - 3) Brett Hildebrand: (785)-871-7311 (Cell) 785-877-5331 Office fax
-



1053

K3 OIL  
3900  
EFTON  
#3-18

3914  
3918  
BHV-90

DPLS>>

NPLS>>

F ZONE

370 GAS  
190 OIL  
80 GWIND  
FPD-10A

<<ANV

TENS>>

10

8

<<MINOR

MINOR

<<PE

GRHO

3925

<<GRHO

F ZONE

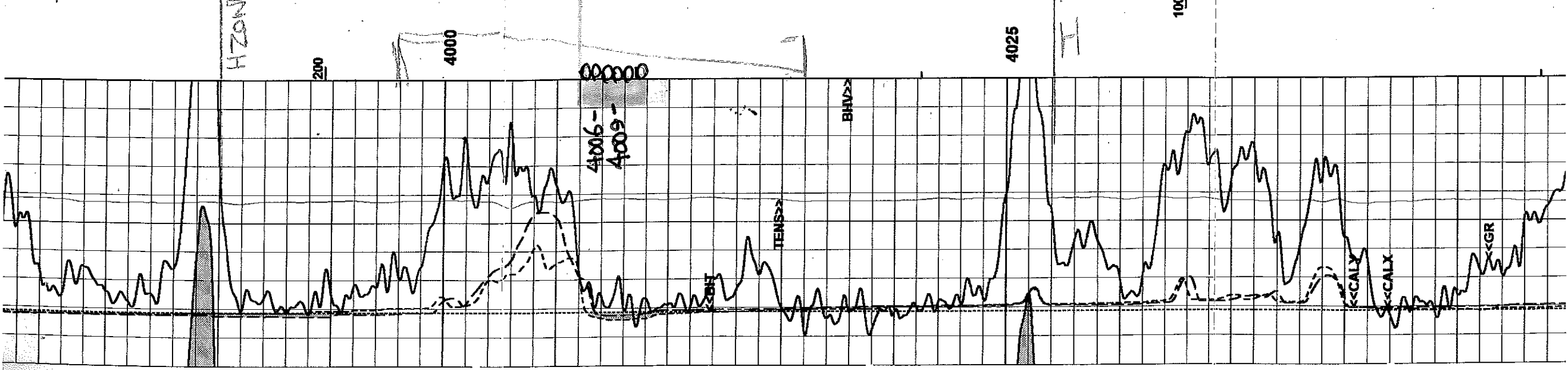
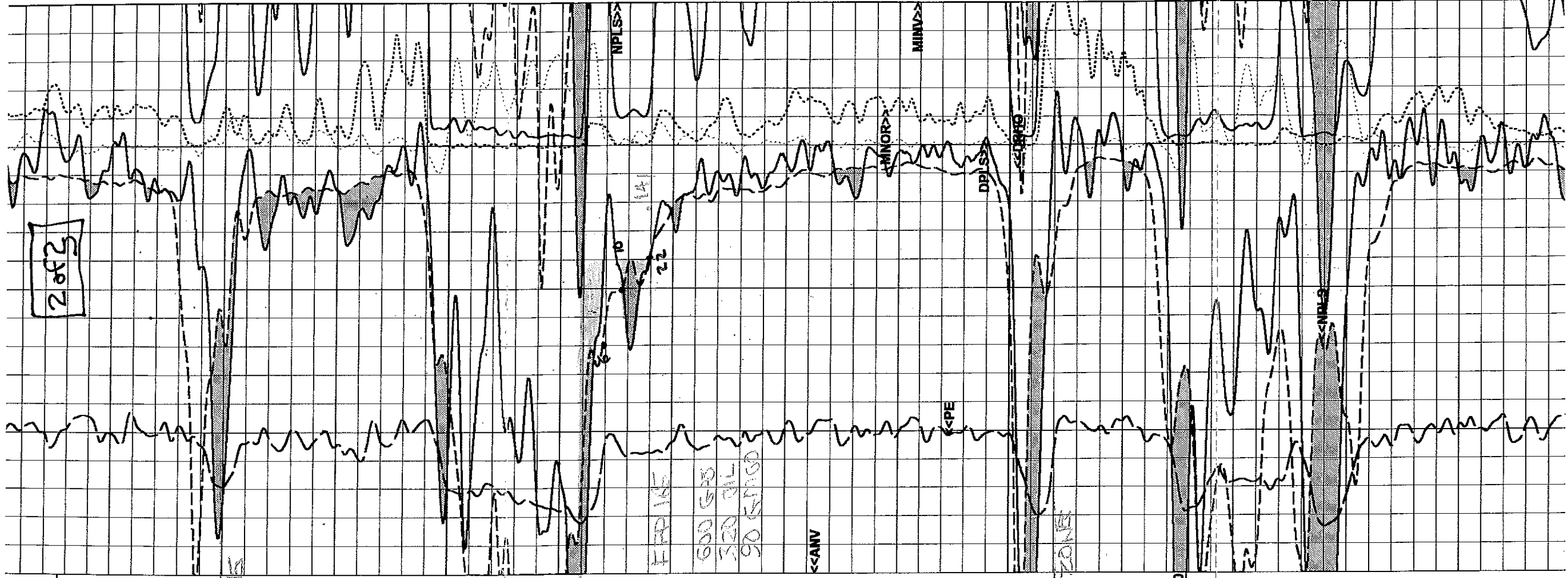
NPLS

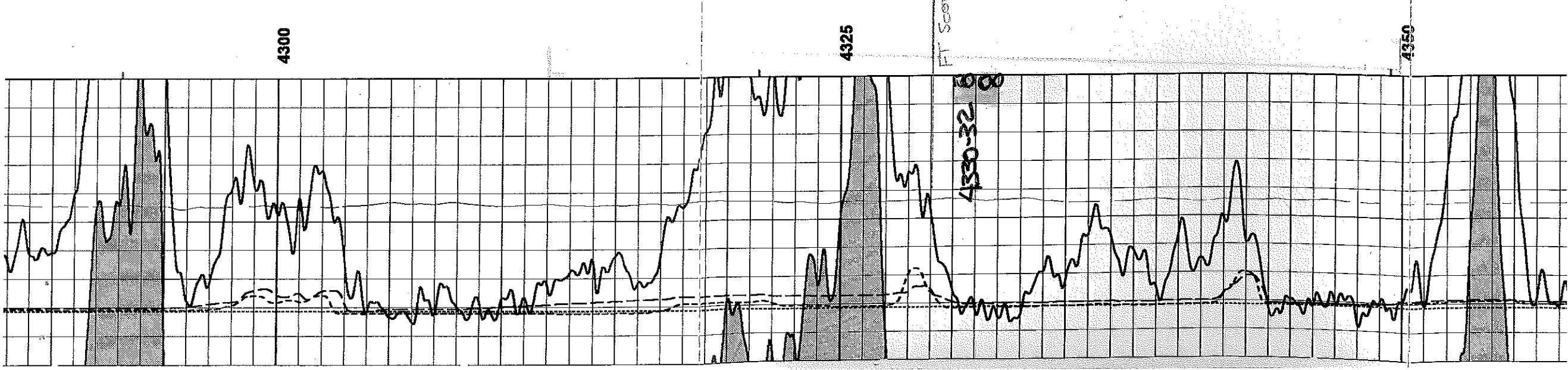
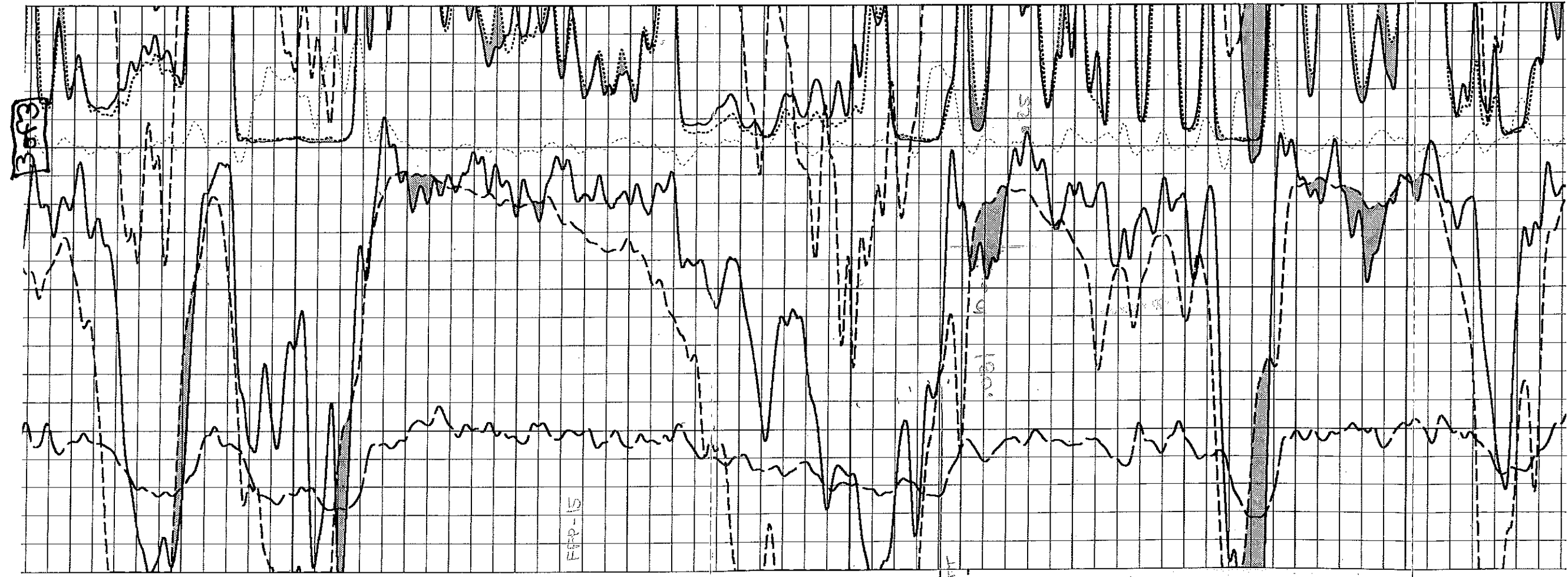
<<CALX

<<CALX

<<GR

3950





# ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. #20-5975804

067786

REMIT TO P.O. BOX 93999  
SOUTH LAKE, TEXAS 76092

SERVICE POINT:

*Clark City, TX*

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
8/8/15	18	16	2B			7:59 AM	2:50 PM
LEASE #		WELL #			LOCATION	COUNTY	STATE
K3303		3-18			N 70 Curve	Wade	TX
OLD OR NEW (circle one)							
<i>NEW</i>							

CONTRACTOR

TYPE OF JOB Lead     2 57cm

HOLE SIZE 2 7/8     T.B.

CASING SIZE 4 1/2     DEPTH 44 39

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

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

TOOL \_\_\_\_\_     DEPTH 2008

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

MEAS. LINE \_\_\_\_\_     SHOE JOINT 41-17

CEMENT LEFT IN CSG. 41, 47

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

DISPLACEMENT Water 59 lbs - 18 lbs Mud

*790.*     661 lbs EQUIPMENT

PUMP TRUCK CEMENTER Alex Ryan

# 495 HELPER Brian Ryan

BULK TRUCK DRIVER Wayne Montgomery

# 818

BULK TRUCK DRIVER Assem Racette

# 891

OWNER Same

CEMENT AMOUNT ORDERED 15075 LBS     400 lbs     11340

POZ MIX	400	@ 19.00	7552.00
GEL			
CHLORIDE			
ASC	5 LBS	@ 23.25	116.25
WATER	1200	@ 2.50	3000.00
FLOCC	100	@ 2.25	225.00
Glycerin	250 lb	@ 1.00	250.00
Sp. Grm.	2-1 lb	@ 3.50	7.00
Chalk	45 lb	@ 1.80	81.00
Other	2 gal	@ 24.00	48.00
TOTAL			13,808.00

DISCOUNT 50%     6,904.00

REMARKS:

*Run by Lewis, mounted assets & vacuum trucks for clay 54 lbs 14-0  
 18 lbs - 42 mud w/ 600 psi 2-77, hand pump 1800 psi  
 2-1000 psi 600 psi 2-1000 psi 3-25-18 (H. H. H. H. H.) HANDLING 634.25  
 3-2000 lbs 5-1/2" 57cm 2-1000 psi 3-25-18 (H. H. H. H. H.) MILEAGE 2-37/4 mile 26.306  
 1/2" 10" Pump 180 @ 1/2 1/2" 10" band  
 Plug @ 2100 Cement 661 lbs - cement*

DEPTH OF JOB \_\_\_\_\_     PUMP TRUCK CHARGE \_\_\_\_\_

EXTRA FOOTAGE \_\_\_\_\_

HV MILEAGE 30     @ 7.20     216.00

LV MILEAGE 30     @ 4.00     120.00

Charge to: K3 Oil & Gas     2406.25

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

TOTAL 9,403.96

DISCOUNT 50%     4,701.98

PLUG & FLOAT EQUIPMENT

<u>OK 700 1</u>	@	<u>53.55</u>
<u>Spillbox</u>	@	<u>39.50</u>
<u>Assembly</u>	@	<u>15.80</u>
<u>Let down Assembly</u>	@	<u>604.50</u>
<u>Plant 500</u>	@	<u>66.00</u>
	@	<u>545.00</u>
TOTAL		<u>9,165.00</u>
DISCOUNT		<u>30%</u> <u>4,582.50</u>

To: Allied Oil & Gas Services, LLC.

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

SALES TAX (if Any)

TOTAL CHARGES 32,570.76

DISCOUNT 16,285.38 (50%)     IF PAID IN 30 DAYS

NET TOTAL 16,285.38     IF PAID IN 30 DAYS

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

SIGNATURE *Robert H. H. H. H.*

Bid



Sonic Cement  
Bond Log

15-101-22560-00-00

API No.

Company **K3 OIL & GAS OPERATING COMPANY**  
 Well **EATON NO. 3-18**  
 Field **WILDCAT**  
 County **LANE** State **KANSAS**

Location **NE/SW/NE/NW**  
**879' FNL & 1966' FWL**  
 Sec: **18** Twp: **16 S** Rge: **28 W**

Permanent Datum **GROUND LEVEL** Elevation **2649**  
 Log Measured From **KELLY BUSHING** 8 Ft. Above Perm. Datum  
 Drilling Measured From **KELLY BUSHING**

Other Services  
 Elevation  
**K.B. 2657**  
**D.F. \_\_\_\_\_**  
**G.L. 2649**

Run Number	ONE	
Date Survey	11-21-2016	
Date Cementing	08-07-2015	
Type Cementing Operation	PRIMARY	
Depth Driller	4540	
Depth Logger	4494	
Logged Interval	4494 to 2950	
Casing Driller	5.5 @ TD	
Float Collar -- D.V. Tool	//// @ 2004	
Squeeze Depth	////	
Amount & Type Cement	////	
Amount & Type Admix	////	
Type Fluid In Hole	WATER	
Fluid Level	479	
Salinity PPM CL	////	
Weight lb/gal -- Vis.	////	
Approx. Logged Cement Top	3080	
Calculated Cement Top	////	
Max. Hole Temperature	121	
Tool No.	RBT 05	
Spacing Recorded	3' 5"	
Equipment -- Location	05 Hays	
Recorded By	SCOTT CLERMONT	
Witnessed By	BRETT HILDEBRAND	

<<< 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

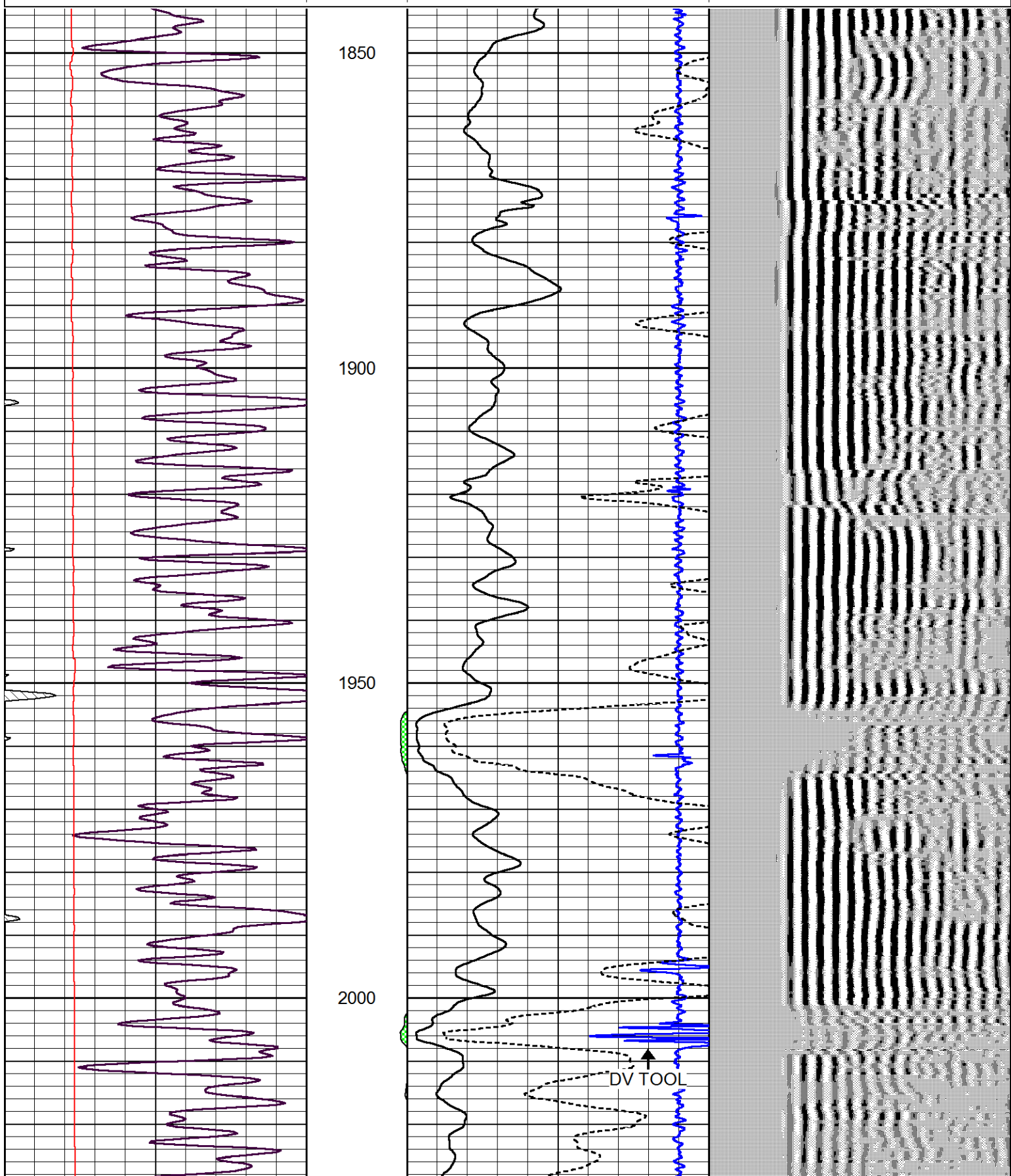
Thank you for using Excel Wireline (620) 388-5676  
 SHIELDS KANSAS,  
 100 YDS FROM K4 AND HWY 23 JCT  
 2 NORTH ON KARL RD  
 1 WEST, 1 NORTH TO GATE  
 2 NORTH EAST TO LOCATION THROUGH CATTLE GUARDS



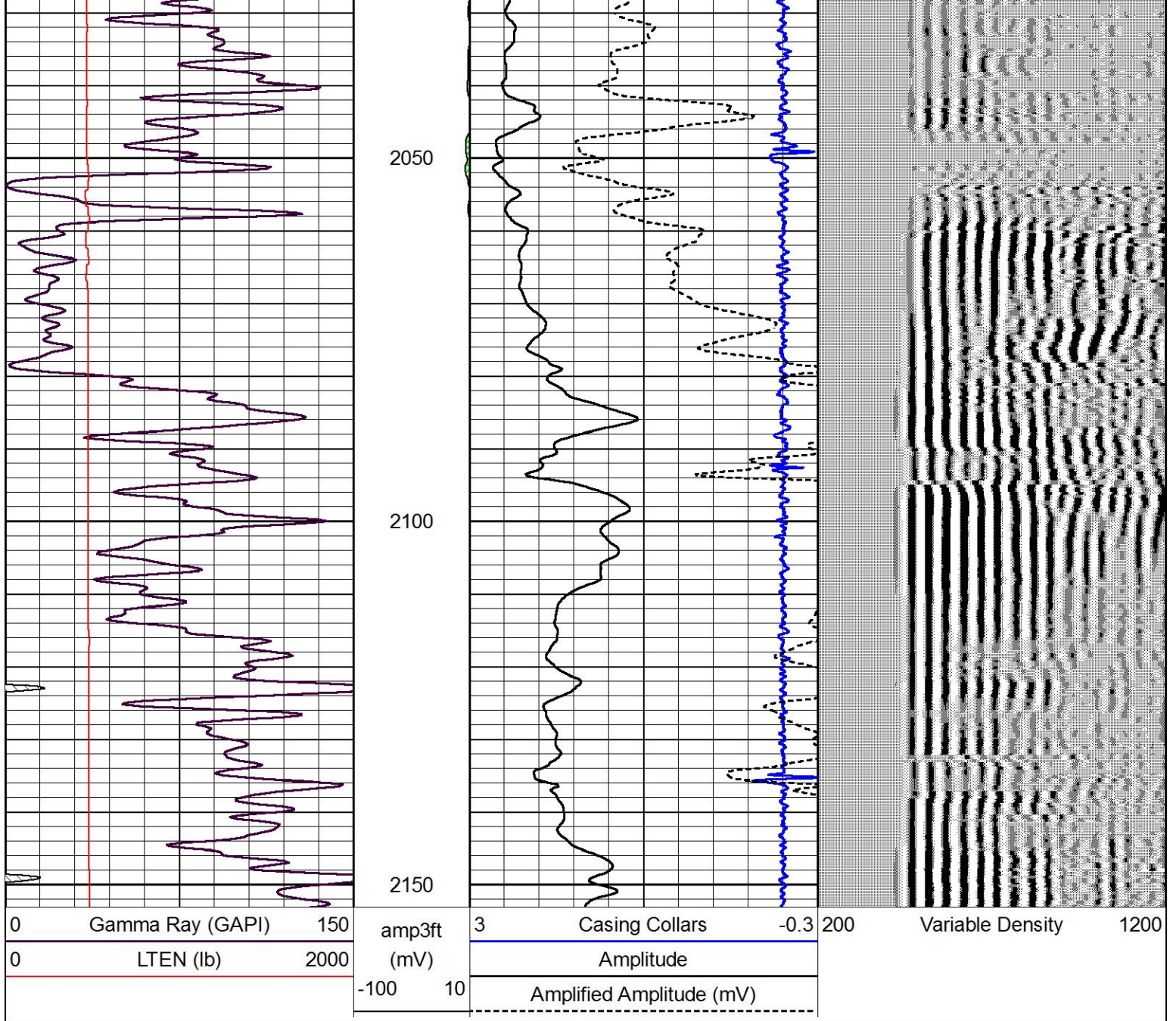
DV TOOL AT 2004

Database File k3\_11212016.db  
 Dataset Pathname grcbl/pass1.1  
 Presentation Format excel  
 Dataset Creation Mon Nov 21 10:03:43 2016  
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	amp3ft	3	Casing Collars	-0.3	200	Variable Density	1200
0	LTEN (lb)	2000	(mV)		Amplitude				
			-100 10		Amplified Amplitude (mV)				

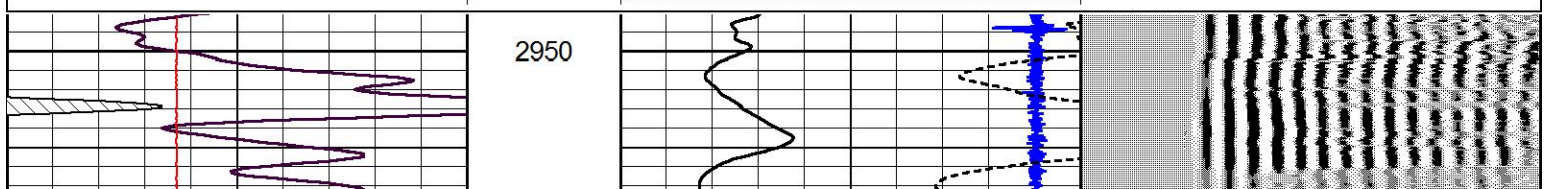
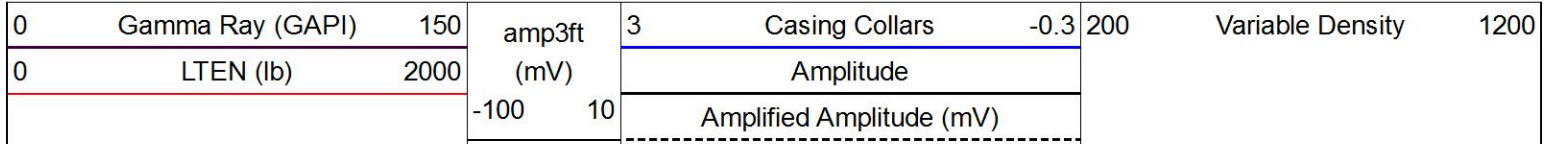


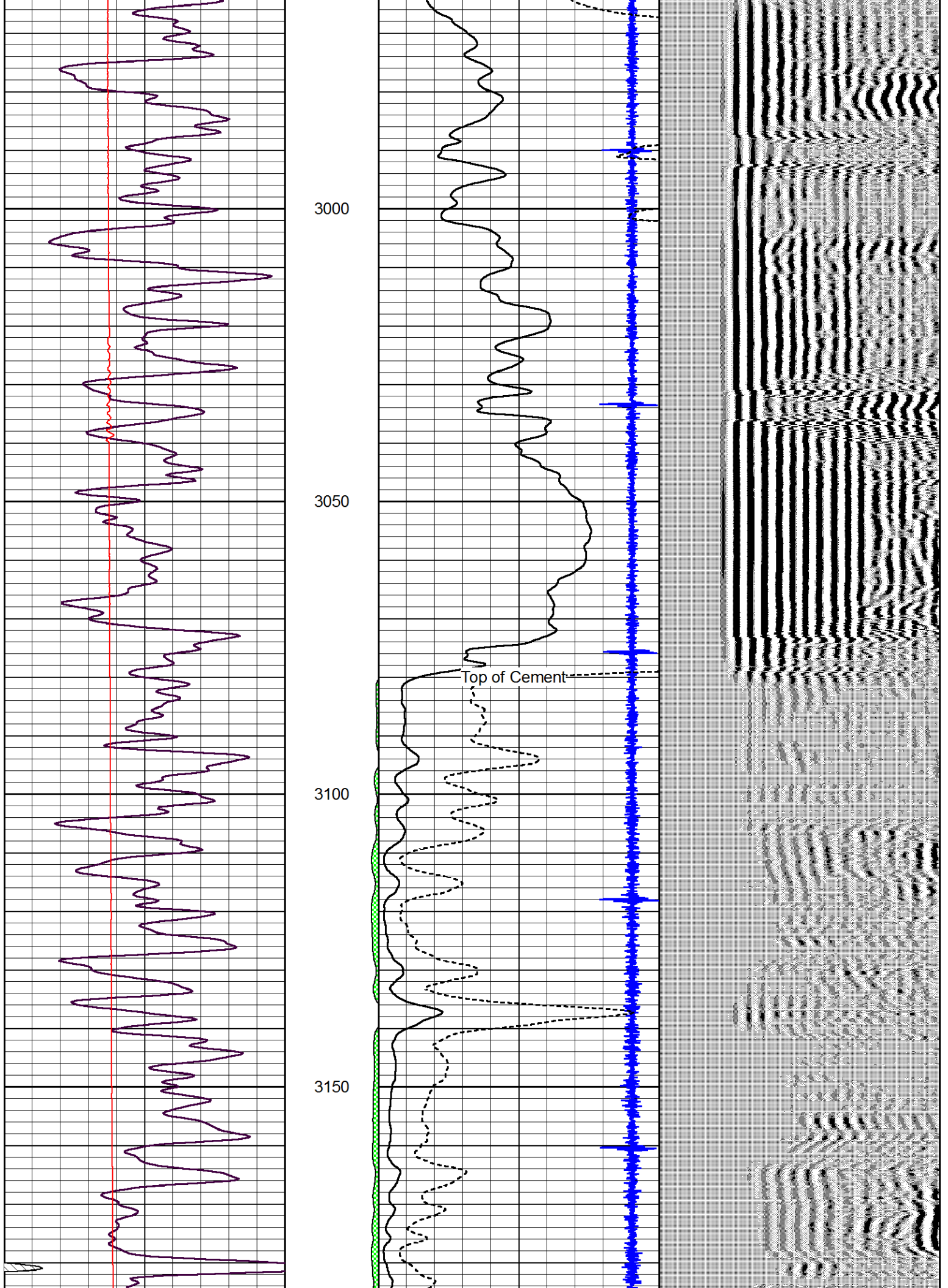


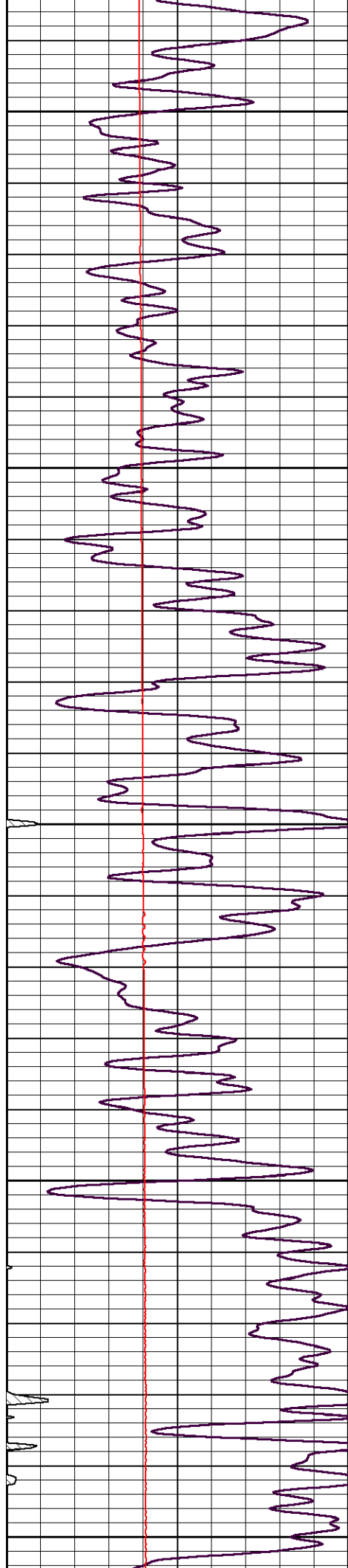


# MAIN PASS

Database File k3\_11212016.db  
 Dataset Pathname grcbl/pass4.1  
 Presentation Format excel  
 Dataset Creation Mon Nov 21 10:09:28 2016  
 Charted by Depth in Feet scaled 1:240







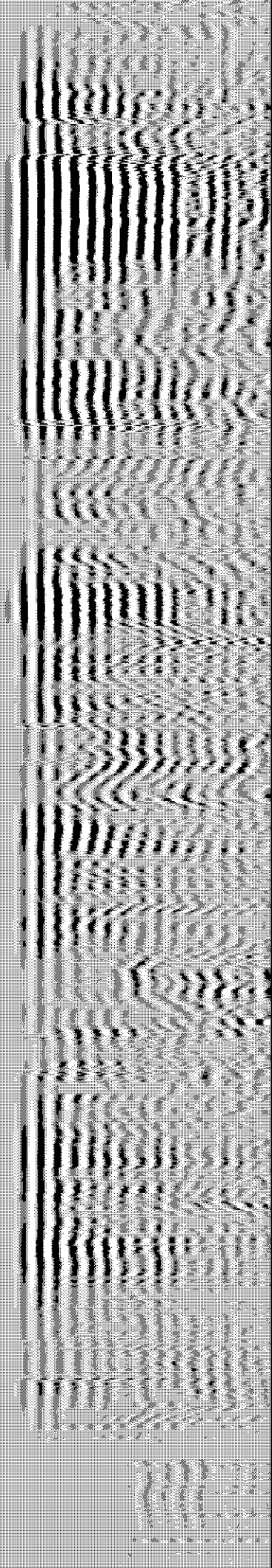
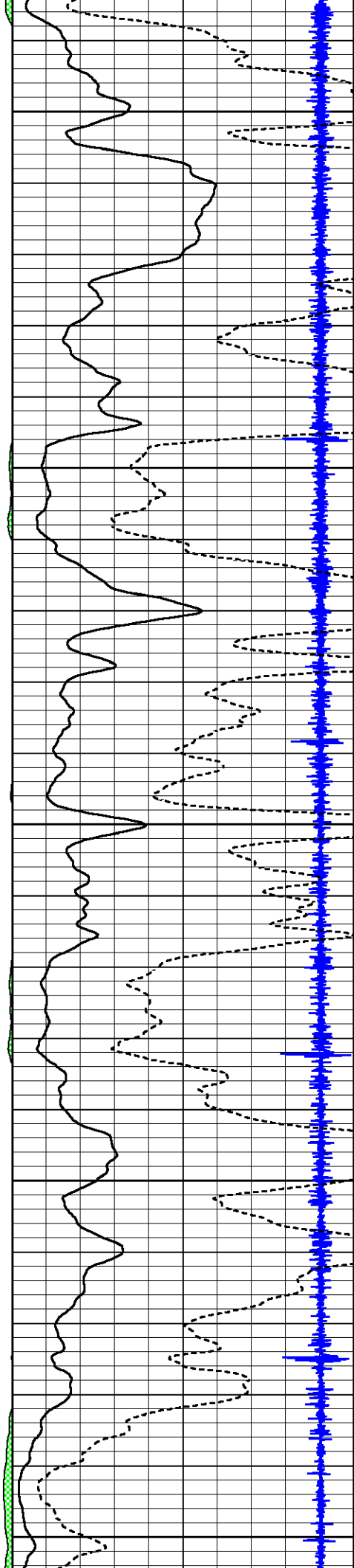
3200

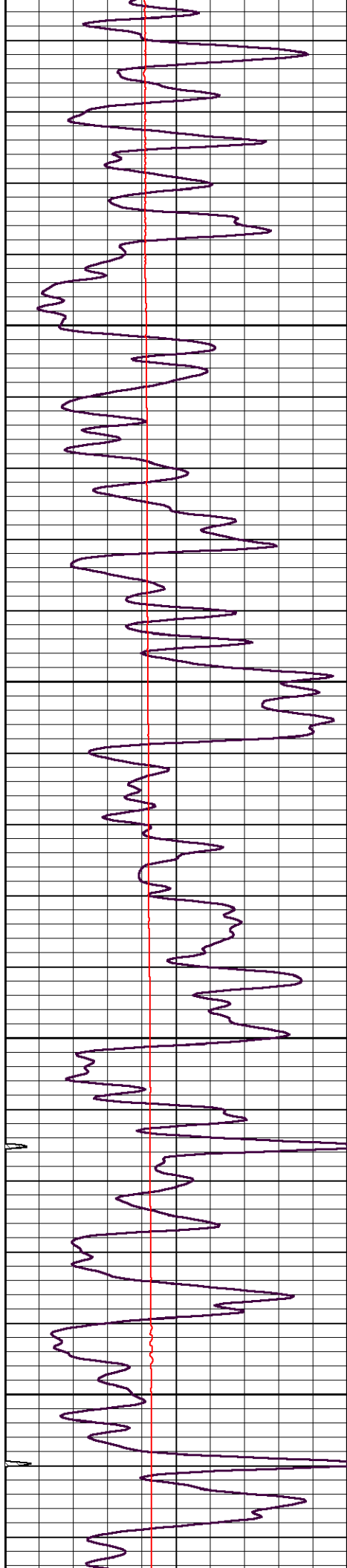
3250

3300

3350

3400



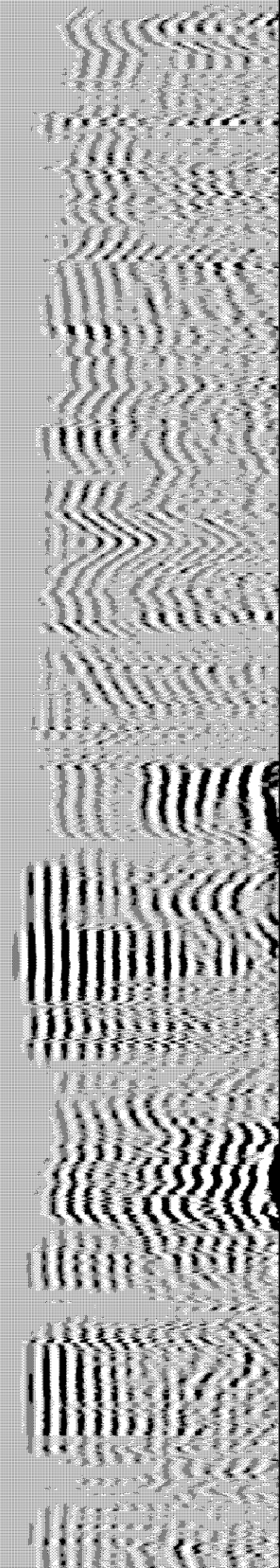
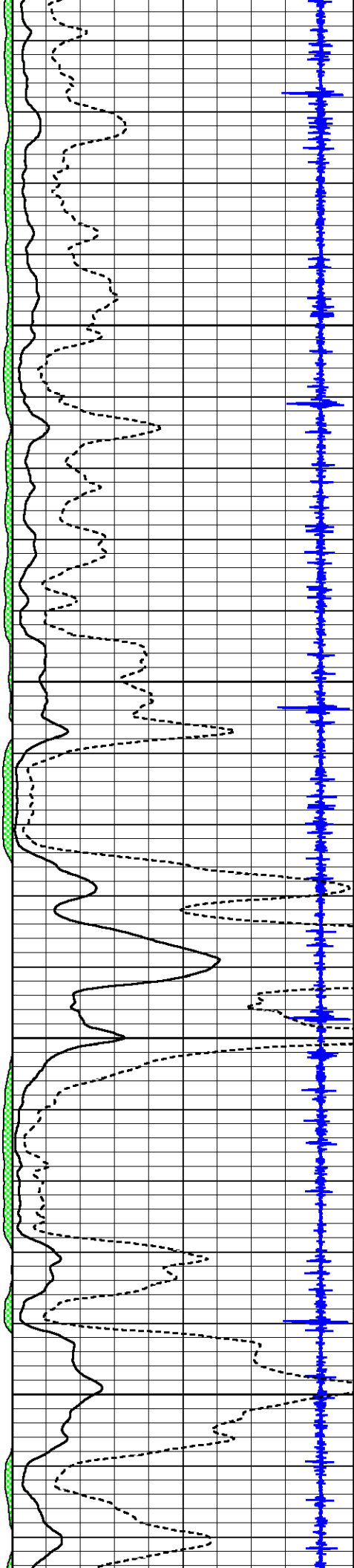


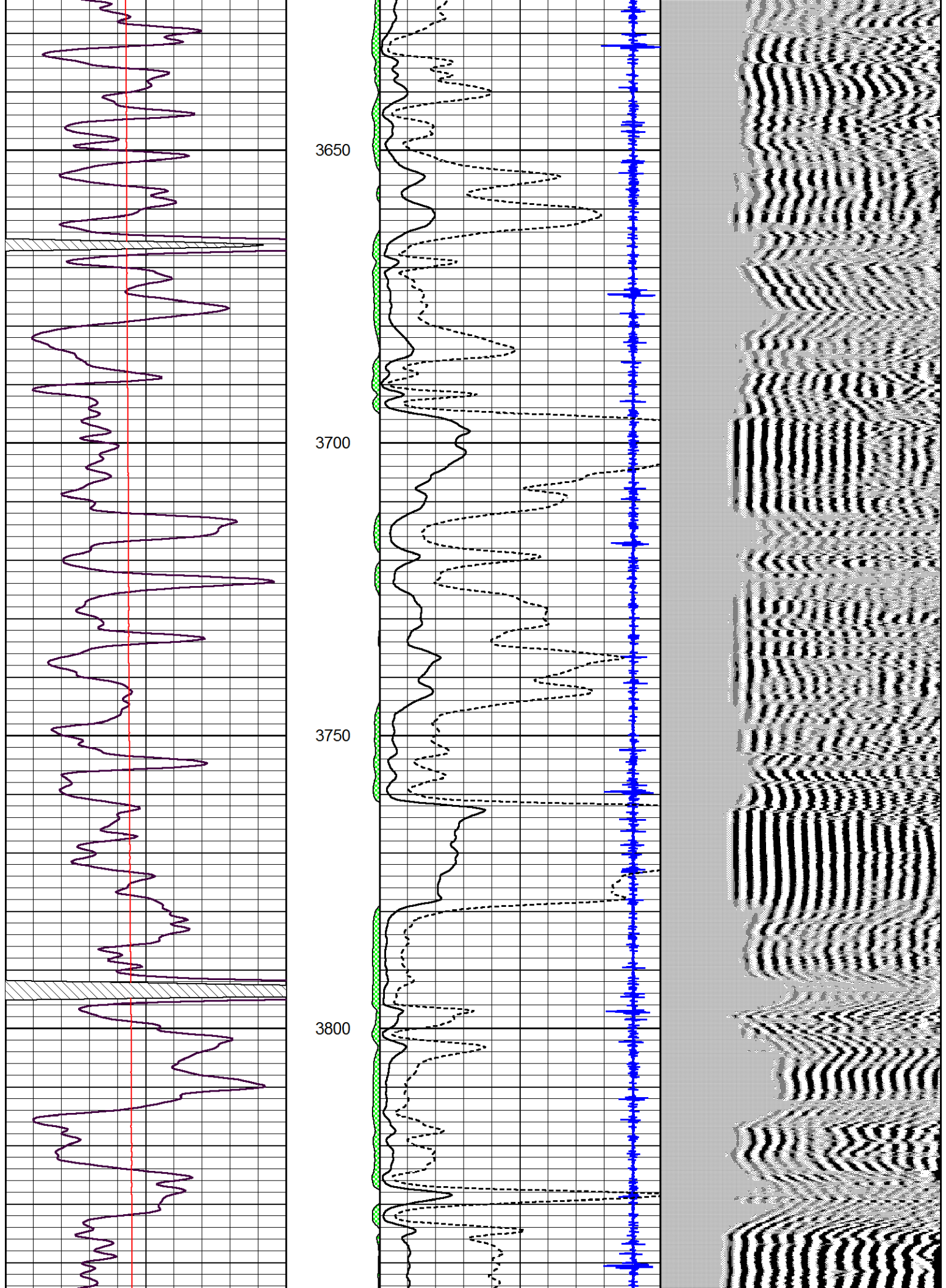
3450

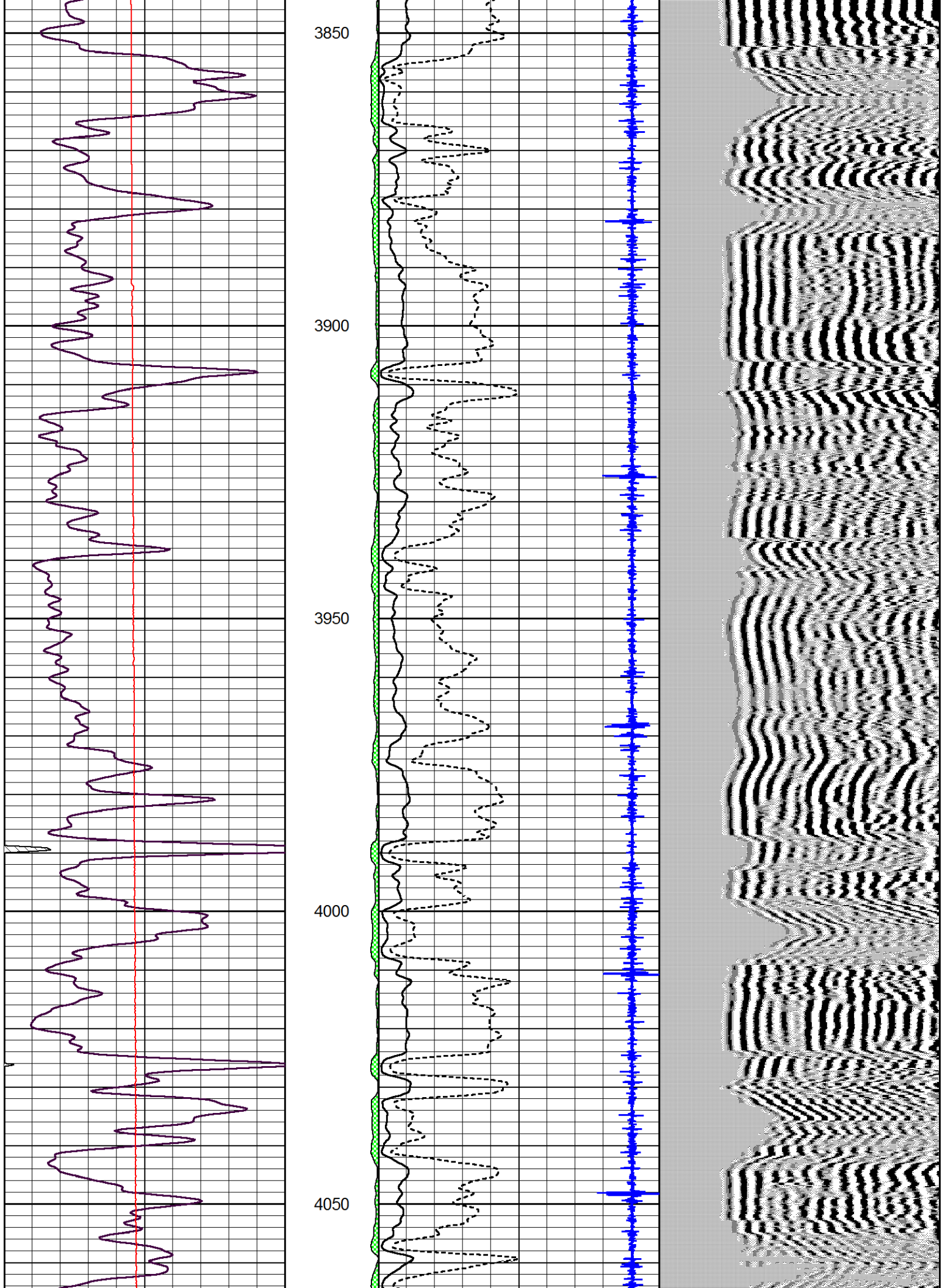
3500

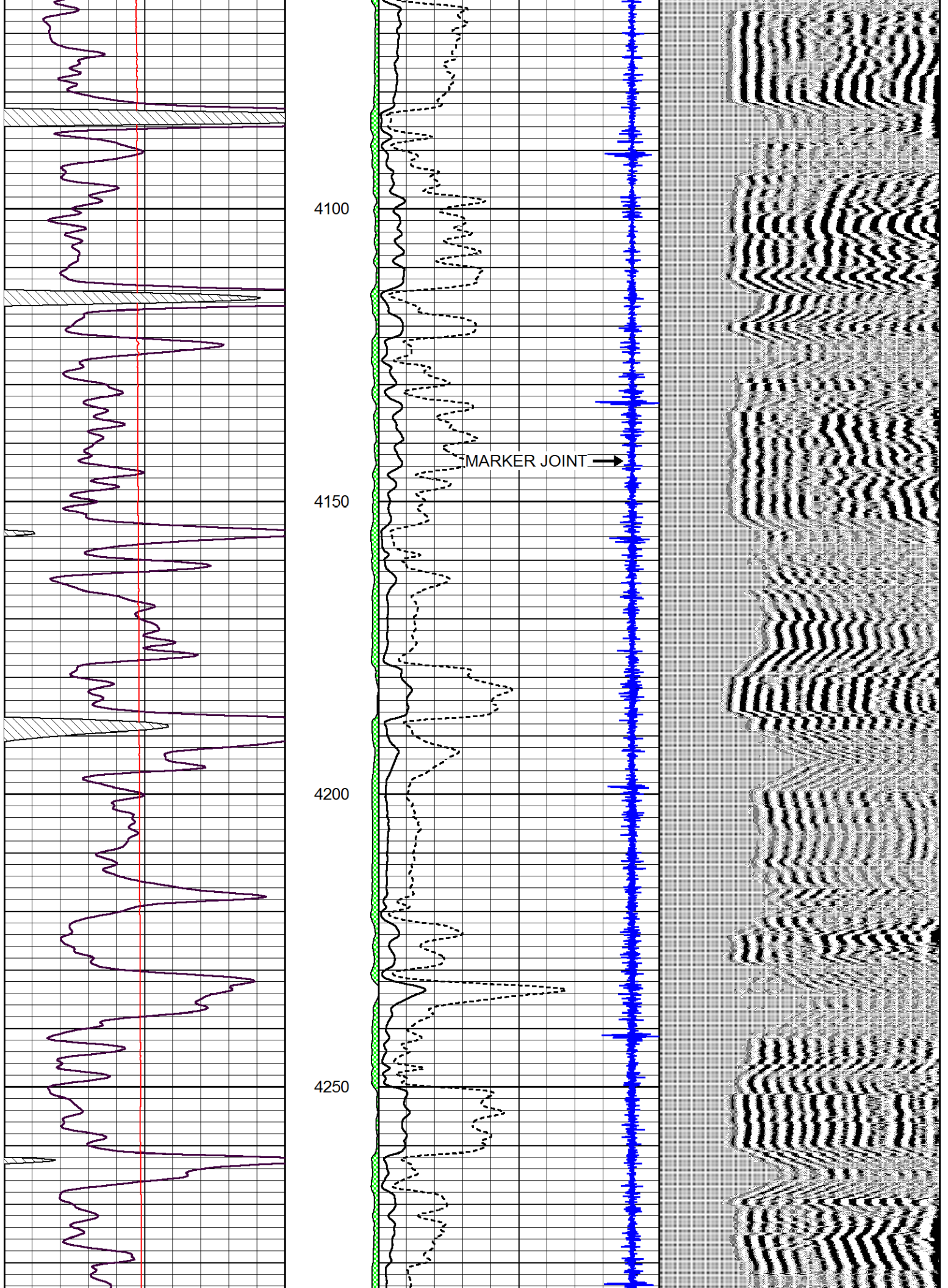
3550

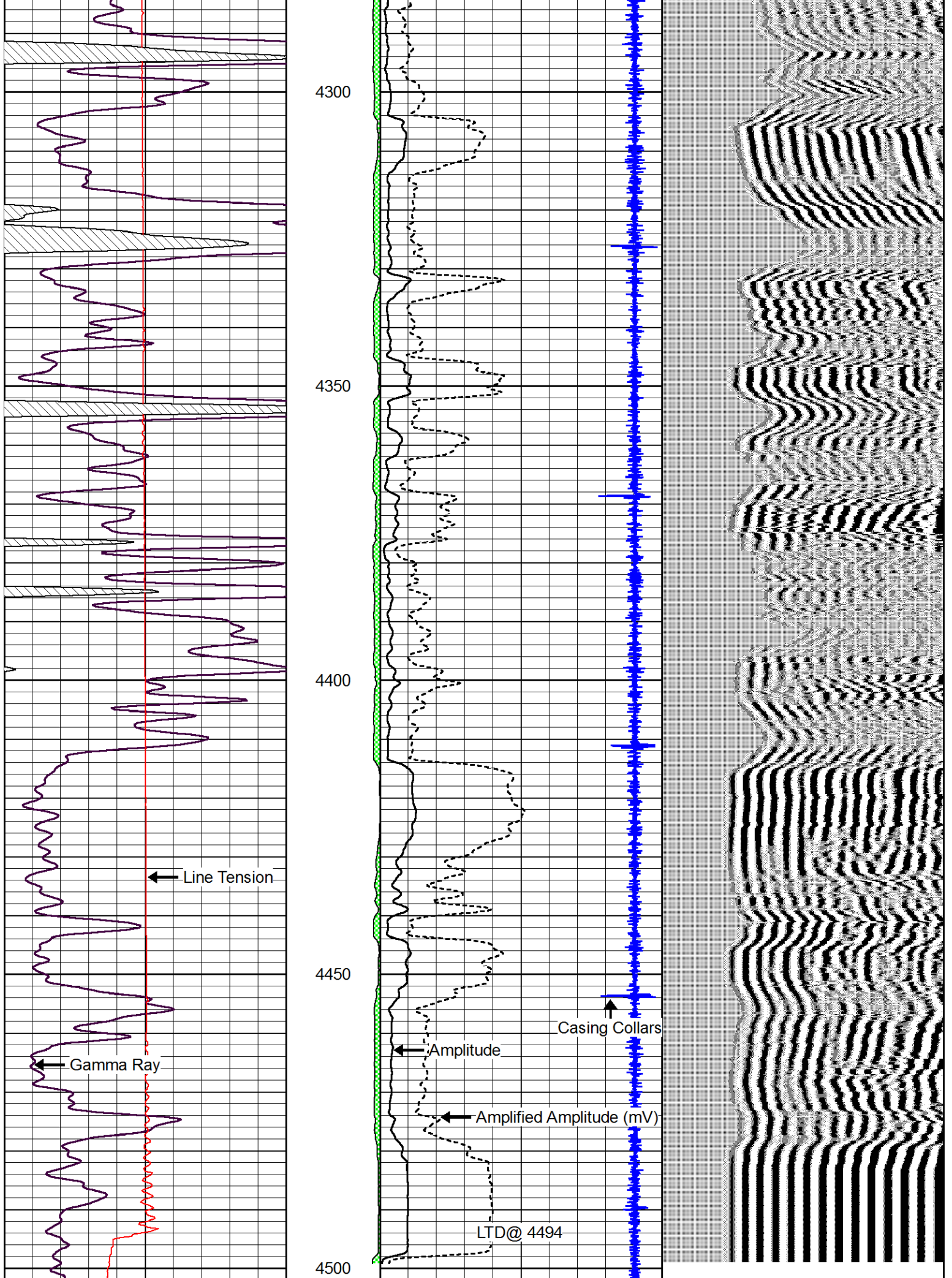
3600













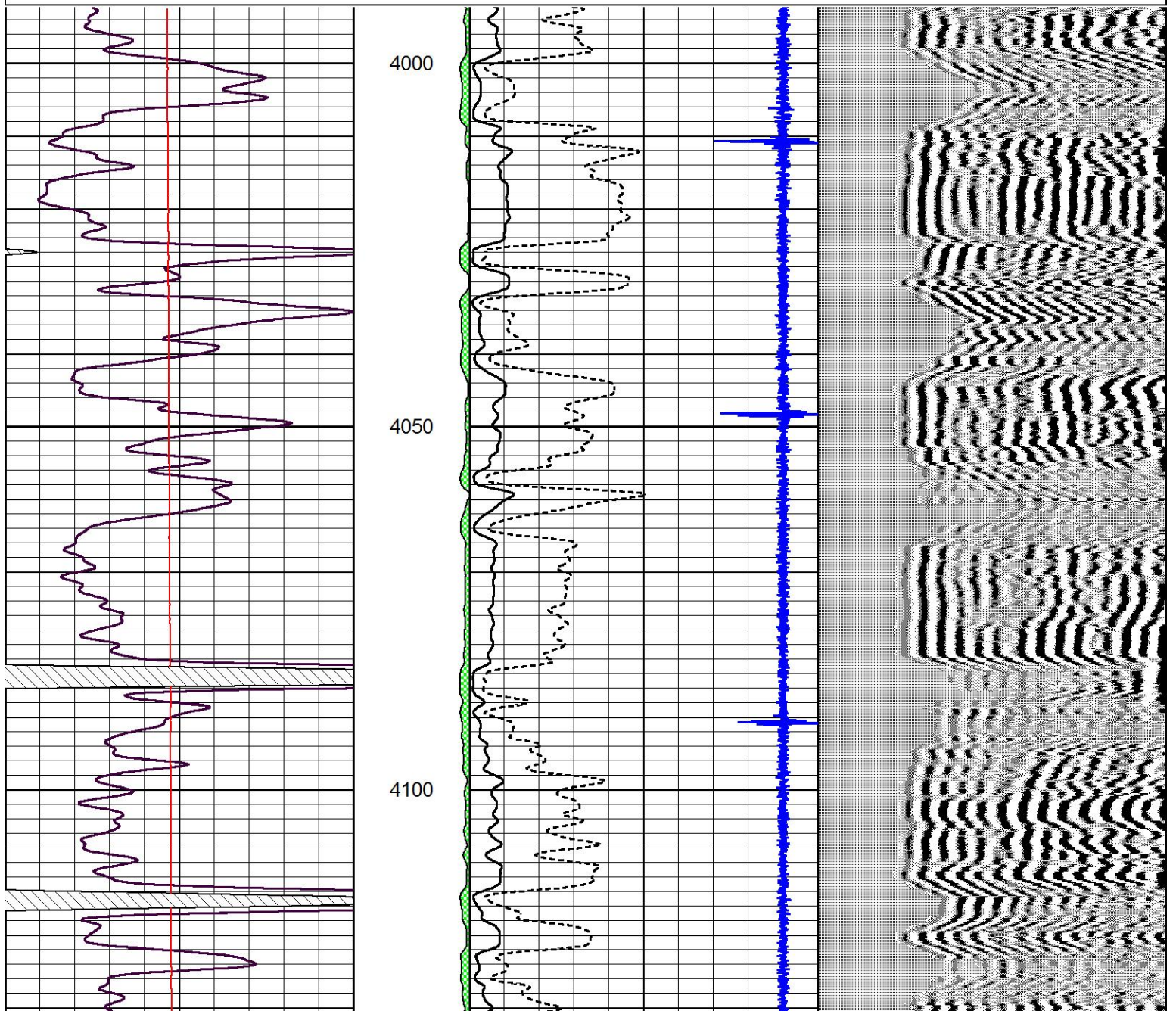
0	Gamma Ray (GAPI)	150	amp3ft	3	Casing Collars	-0.3	200	Variable Density	1200
0	LTEN (lb)	2000	(mV)		Amplitude				
			-100	10	Amplified Amplitude (mV)				

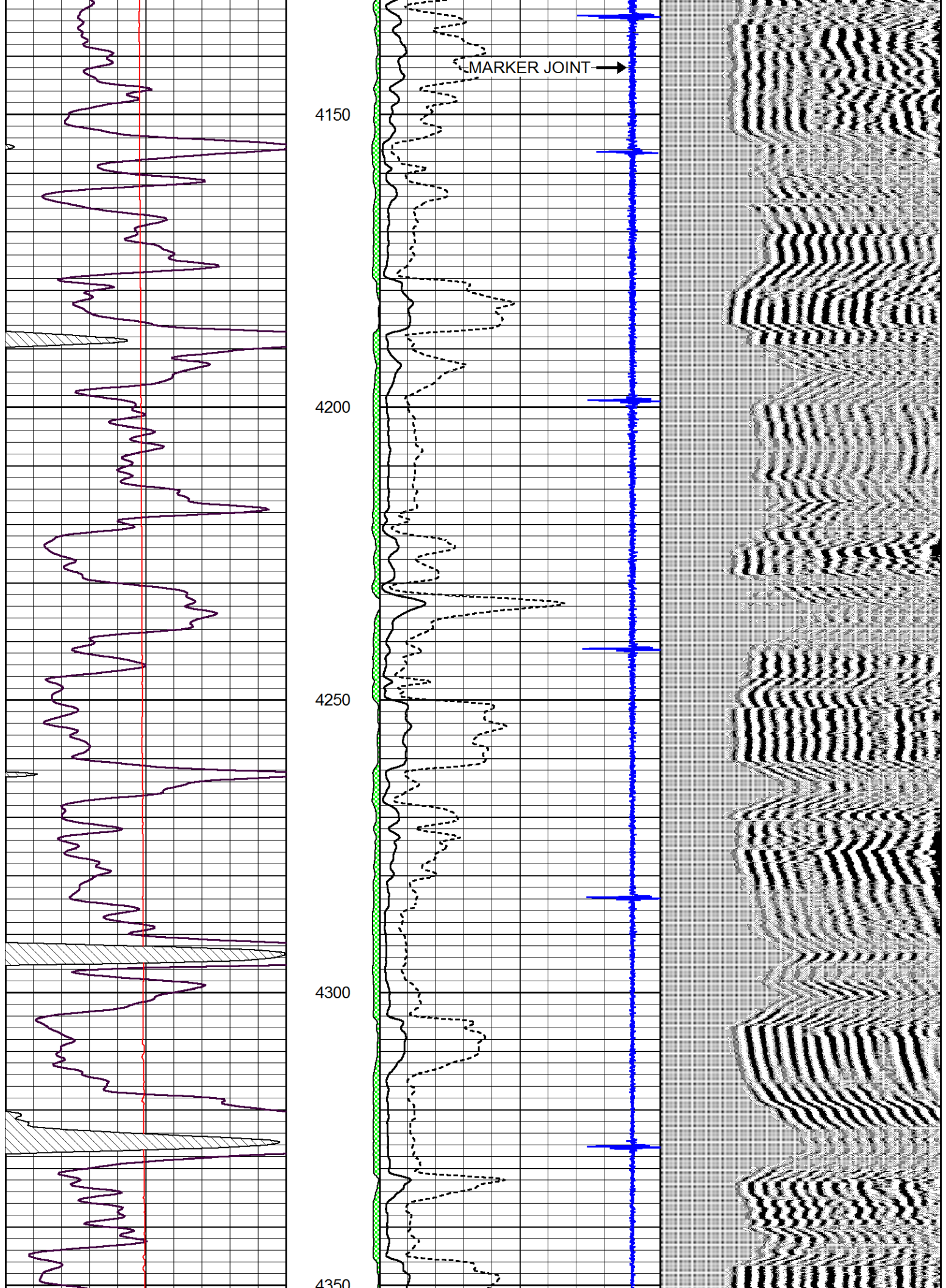


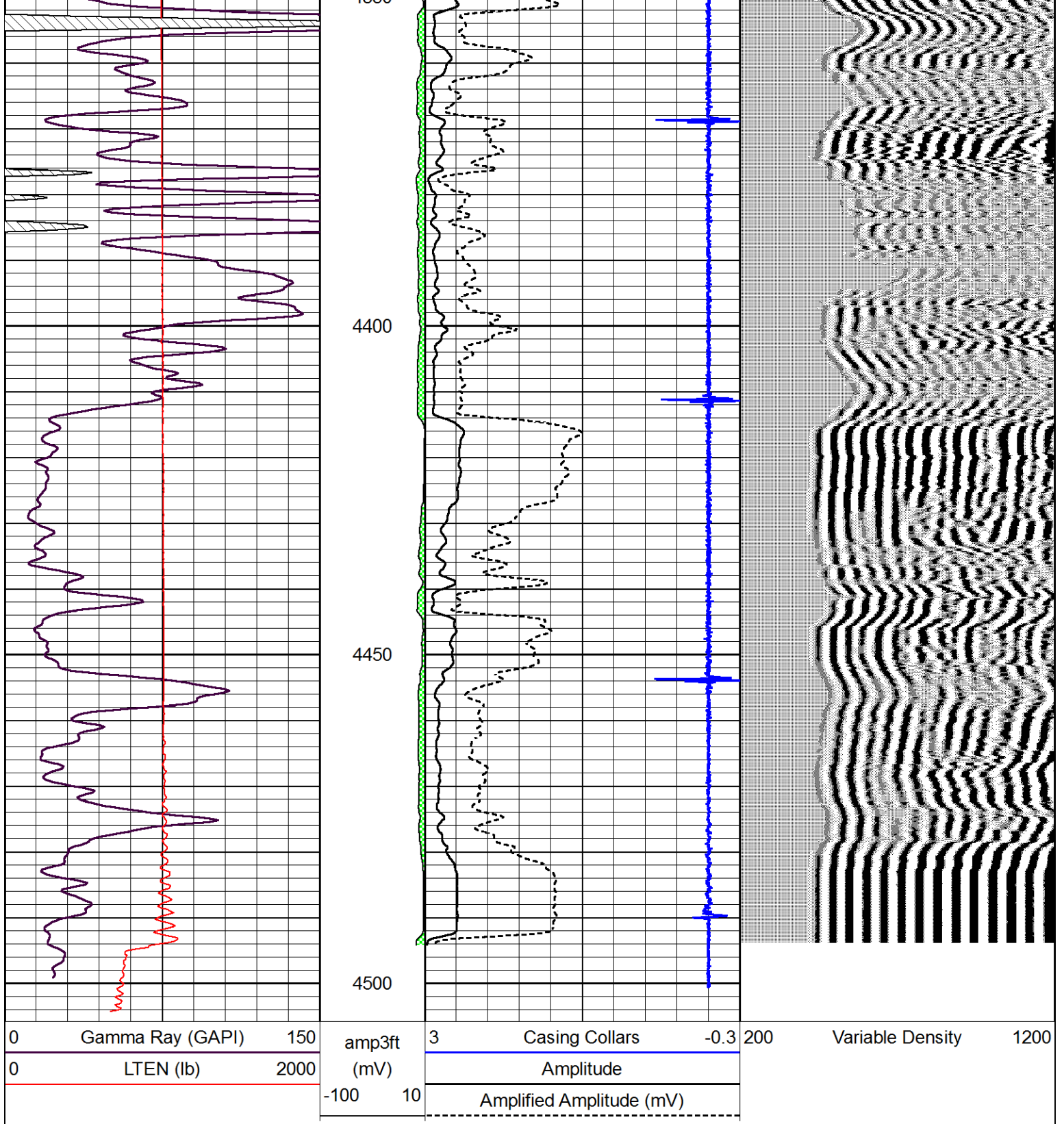
# REPEAT SECTION

Database File k3\_11212016.db  
 Dataset Pathname grcbl/pass2  
 Presentation Format excel  
 Dataset Creation Mon Nov 21 08:56:31 2016  
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	amp3ft	3	Casing Collars	-0.3	200	Variable Density	1200
0	LTEN (lb)	2000	(mV)		Amplitude				
			-100	10	Amplified Amplitude (mV)				







## Summary of Changes

Lease Name and Number: Eaton 3-18

API/Permit #: 15-101-22560-00-00

Doc ID: 1322571

Correction Number: 1

Approved By: Karen Ritter

Field Name	Previous Value	New Value
Amount of Surface Pipe Set and Cemented at	294	304
Approved By	NAOMI JAMES	Karen Ritter
Approved Date	09/14/2015	12/16/2016
Completion Or Recompletion Date	08/07/2015	11/15/2016
Date of First or Resumed Production or SWD or Enhr If Alternate II	2002	12/08/2016
Completion - Cement Circulated From Liner Run?		No
Method Of Completion - Perf	No	Yes
Multiple Stage Cementing Collar Depth	2002	2008
Perf_Depth_1		4,330 - 4,332

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Perf_Depth_2		4006-4009
Perf_Depth_3		3914-3919
Perf_Material_1		250 gal 15% MCA; acidized w/ 1000 gal 15% HCL + additives as same as above
Perf_Material_2		
Perf_Material_3		same as above
Perf_Record_1		Ft. Scott
Perf_Record_2		Lansing 'H'
Perf_Record_3		Lansing 'F'
Perf_Shots_1		2
Perf_Shots_2		3
Perf_Shots_3		5
Producing Formation	N/A	Simpson
Producing Method Pumping	No	Yes

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Production - Barrels Oil		42
Production - Barrels of Water		120
Save Link	../../../../kcc/detail/operatorEditDetail.cfm?docID=1261708	../../../../kcc/detail/operatorEditDetail.cfm?docID=1322571
Temporarily Abandoned	Yes	No

## Summary of Attachments

Lease Name and Number: Eaton 3-18

API: 15-101-22560-00-00

Doc ID: 1322571

Correction Number: 1

Attachment Name

Cement bond log



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1261708  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

**CONFIDENTIAL** WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

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

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



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 Geologist Report / Mud Logs <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
--	---

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				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
---	---	------------------------------------

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	K3 Oil & Gas Operating Company
Well Name	Eaton 3-18
Doc ID	1261708

All Electric Logs Run

DIL
CNL-FDC
Micro
Sonic



# ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. #20-5975804

067786

REMIT TO P.O. BOX 93999  
SOUTH LAKE, TEXAS 76092

SERVICE POINT:

*Clark County*

DATE <u>8/8/16</u>	SEC. <u>18</u>	TWP. <u>16</u>	RANGE <u>28</u>	CALLED OUT	ON LOCATION	JOB START COUNTY <u>Clark</u>	JOB FINISH STATE <u>TX</u>
LEASE <u>Kathryn</u>	WELL # <u>3-18</u>	LOCATION <u>Northstar N 70 Curve</u>					
OLD OR NEW <u>Electric one</u>	WELL # <u>3-18</u>		LOCATION <u>Northstar N 70 Curve</u>				

CONTRACTOR

OWNER Same

TYPE OF JOB Lead & 5 Taps

HOLE SIZE 2 7/8

CASING SIZE 4 1/2

TUBING SIZE

DEPTH

DEPTH

DEPTH

DEPTH

DEPTH

DEPTH

MINIMUM

SHOE JOINT 41.17

CEMENT LEFT IN CSG. 41.47

CEMENT AMOUNT ORDERED 150 TFL 400 Bags 154760

DISPLACEMENT <u>Water</u>	<u>59</u>	<u>64.0</u>	<u>18</u>	<u>High Head</u>
TYP. <u>ALL TO EQUIPMENT</u>				
PUMP TRUCK CEMENTER	<u>Ryan</u>			
BULK TRUCK HELPER	<u>Ryan</u>			
BULK TRUCK DRIVER	<u>Wayne Montgomery</u>			
BULK TRUCK DRIVER	<u>Armen Racette</u>			

TOTAL 3,801.80 DISCOUNT 50% 600.90

REMARKS:

Run by hand, measure 59 to 64.0 - 18 High Head

18 High Head w/ 600 PSI 2 7/8 casing pipe 1800 ft

2 7/8 casing pipe 600 PSI 2 7/8 casing pipe 1800 ft

3000 ft casing 5 1/2 Start up - 1051 (55 min)

1 1/2 hrs. Pump 400 @ 2 7/8 High Head

Play @ 2100 Cement 100 - 1000

1 1/2 hrs. Pump 400 @ 2 7/8 High Head

Done

CHARGE TO: K3 Oil & Gas

STREET \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

CITY \_\_\_\_\_

DEPTH OF JOB \_\_\_\_\_ PUMP TRUCK CHARGE \_\_\_\_\_

EXTRA FOOTAGE \_\_\_\_\_

HV MILEAGE 30 @ 7.20 231.00

LV MILEAGE 30 @ 4.40 132.00

700 ft @ 2406 @ \_\_\_\_\_ 2406.00

1 1/2 hrs. Pump 400 @ \_\_\_\_\_ 825.00

TOTAL 9,403.96

DISCOUNT 50% 480.98

PLUG & FLOAT EQUIPMENT

OK 700 1 @ \_\_\_\_\_ 5335.00

4000 @ 39.20 1580.00

4000 @ 39.20 1580.00

Letchford Assembly @ \_\_\_\_\_ 660.00

Plant 500 @ \_\_\_\_\_ 545.00

TOTAL 9,165.00

DISCOUNT 30% 4500.30

SALES TAX (IF ANY) \_\_\_\_\_

TOTAL CHARGES 32,570.76

DISCOUNT 16,285.38 (50%) IF PAID IN 30 DAYS

NET TOTAL 16,285.38 IF PAID IN 30 DAYS

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

SIGNATURE Armen Racette

Bid



## DRILL STEM TEST REPORT

Prepared For: **K3 Oil & Gas Operating Co**

211 Highland Cross Ste 205  
Houston, TX 77073

ATTN: Tom Williams

**Eaton #3-18**

**18-16s-28w Lane,KS**

Start Date: 2015.08.01 @ 23:27:00

End Date: 2015.08.02 @ 07:15:45

Job Ticket #: 61827                      DST #: 1

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

Printed: 2015.08.08 @ 09:56:36



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

K3 Oil & Gas Operating Co

**18-16s-28w Lane, KS**

211 Highland Cross Ste 205  
Houston, TX 77073

**Eaton #3-18**

Job Ticket: 61827

**DST#: 1**

ATTN: Tom Williams

Test Start: 2015.08.01 @ 23:27:00

## GENERAL INFORMATION:

Formation: **LKC F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:43:15

Time Test Ended: 07:15:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 69

**Interval: 3907.00 ft (KB) To 3926.00 ft (KB) (TVD)**

Reference Elevations: 2657.00 ft (KB)

Total Depth: 3926.00 ft (KB) (TVD)

2648.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 8365**

**Inside**

Press@RunDepth: 103.92 psig @ 3908.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.01

End Date:

2015.08.02

Last Calib.:

2015.08.02

Start Time: 23:27:05

End Time:

07:15:44

Time On Btm:

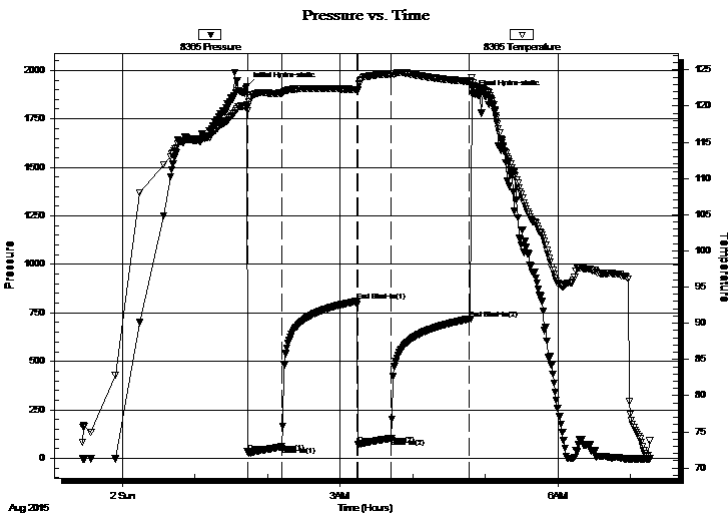
2015.08.02 @ 01:43:00

Time Off Btm:

2015.08.02 @ 04:49:00

TEST COMMENT: IF: BOB @ 4 min.  
IS: 4" return.  
FF: BOB @ 9 min.  
FS: 5" return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1915.69	120.26	Initial Hydro-static
1	33.07	119.39	Open To Flow (1)
29	60.70	121.81	Shut-In(1)
91	809.20	122.29	End Shut-In(1)
92	71.36	122.11	Open To Flow (2)
120	103.92	124.46	Shut-In(2)
184	719.17	123.42	End Shut-In(2)
186	1877.68	123.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	gw mco 5g 10w 20m 65o	0.84
190.00	go 15g 85o	2.67
0.00	370' GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

K3 Oil & Gas Operating Co

**18-16s-28w Lane,KS**

211 Highland Cross Ste 205  
Houston, TX 77073

**Eaton #3-18**

ATTN: Tom Williams

Job Ticket: 61827

**DST#: 1**

Test Start: 2015.08.01 @ 23:27:00

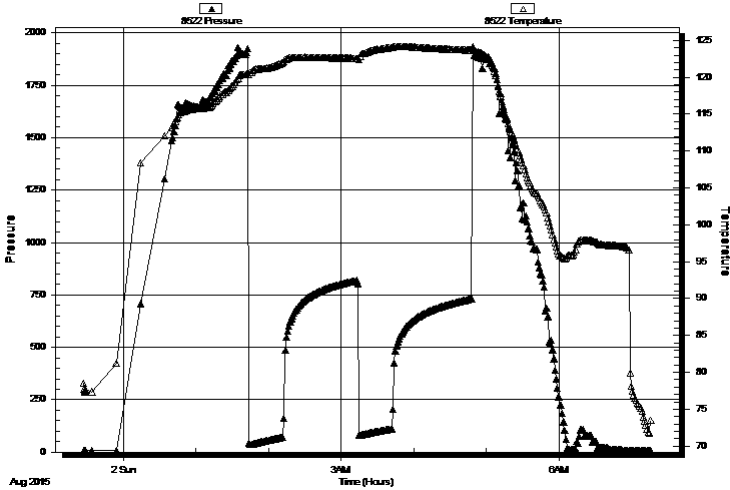
### GENERAL INFORMATION:

Formation: **LKC F**  
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 01:43:15 Tester: Bradley Walter  
 Time Test Ended: 07:15:45 Unit No: 69  
**Interval: 3907.00 ft (KB) To 3926.00 ft (KB) (TVD)** Reference Elevations: 2657.00 ft (KB)  
 Total Depth: 3926.00 ft (KB) (TVD) 2648.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 9.00 ft

**Serial #: 8522 Outside**  
 Press@RunDepth: psig @ 3908.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.08.01 End Date: 2015.08.02 Last Calib.: 2015.08.02  
 Start Time: 23:27:05 End Time: 07:15:59 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF: BOB @ 4 min.  
 IS: 4" return.  
 FF: BOB @ 9 min.  
 FS: 5" return.

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
60.00	gw mco 5g 10w 20m 65o	0.84
190.00	go 15g 85o	2.67
0.00	370' GIP	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

K3 Oil & Gas Operating Co

**18-16s-28w Lane,KS**

211 Highland Cross Ste 205  
Houston, TX 77073

**Eaton #3-18**

Job Ticket: 61827

**DST#: 1**

ATTN: Tom Williams

Test Start: 2015.08.01 @ 23:27:00

## Tool Information

Drill Pipe:	Length: 3903.00 ft	Diameter: 3.80 inches	Volume: 54.75 bbl	Tool Weight: 2500.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 54.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3907.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	46.00 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			3881.00	
Shut In Tool	5.00			3886.00	
Hydraulic tool	5.00			3891.00	
Jars	5.00			3896.00	
Safety Joint	2.00			3898.00	
Packer	5.00			3903.00	27.00 Bottom Of Top Packer
Packer	4.00			3907.00	
Stubb	1.00			3908.00	
Recorder	0.00	8365	Inside	3908.00	
Recorder	0.00	8522	Outside	3908.00	
Perforations	15.00			3923.00	
Bullnose	3.00			3926.00	19.00 Bottom Packers & Anchor

**Total Tool Length: 46.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

K3 Oil & Gas Operating Co

**18-16s-28w Lane,KS**

211 Highland Cross Ste 205  
Houston, TX 77073

**Eaton #3-18**

Job Ticket: 61827

**DST#: 1**

ATTN: Tom Williams

Test Start: 2015.08.01 @ 23:27:00

### 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:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	gw mco 5g 10w 20m 65o	0.842
190.00	go 15g 85o	2.665
0.00	370' GIP	0.000

Total Length: 250.00 ft      Total Volume: 3.507 bbl

Num Fluid Samples: 0

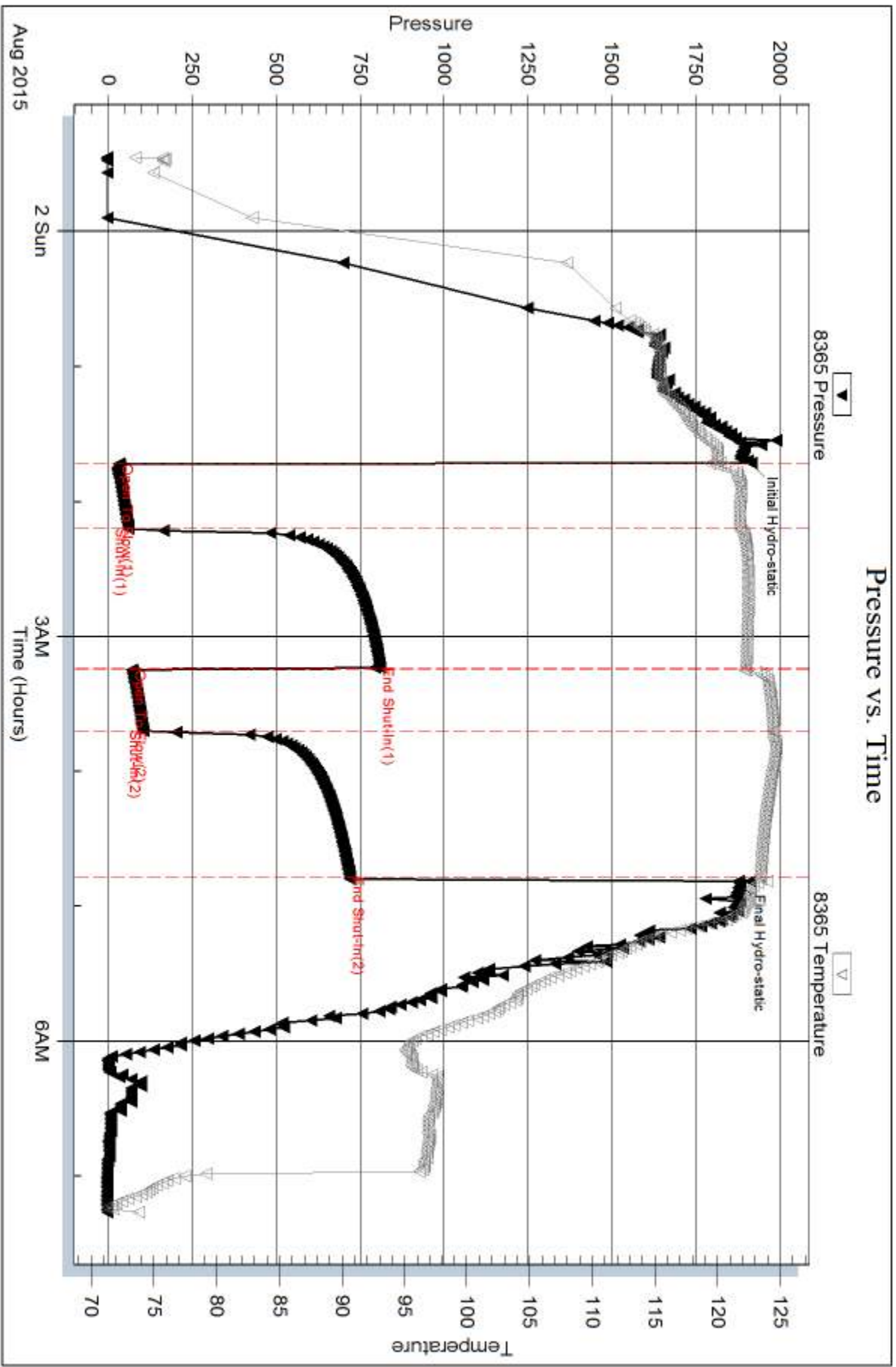
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

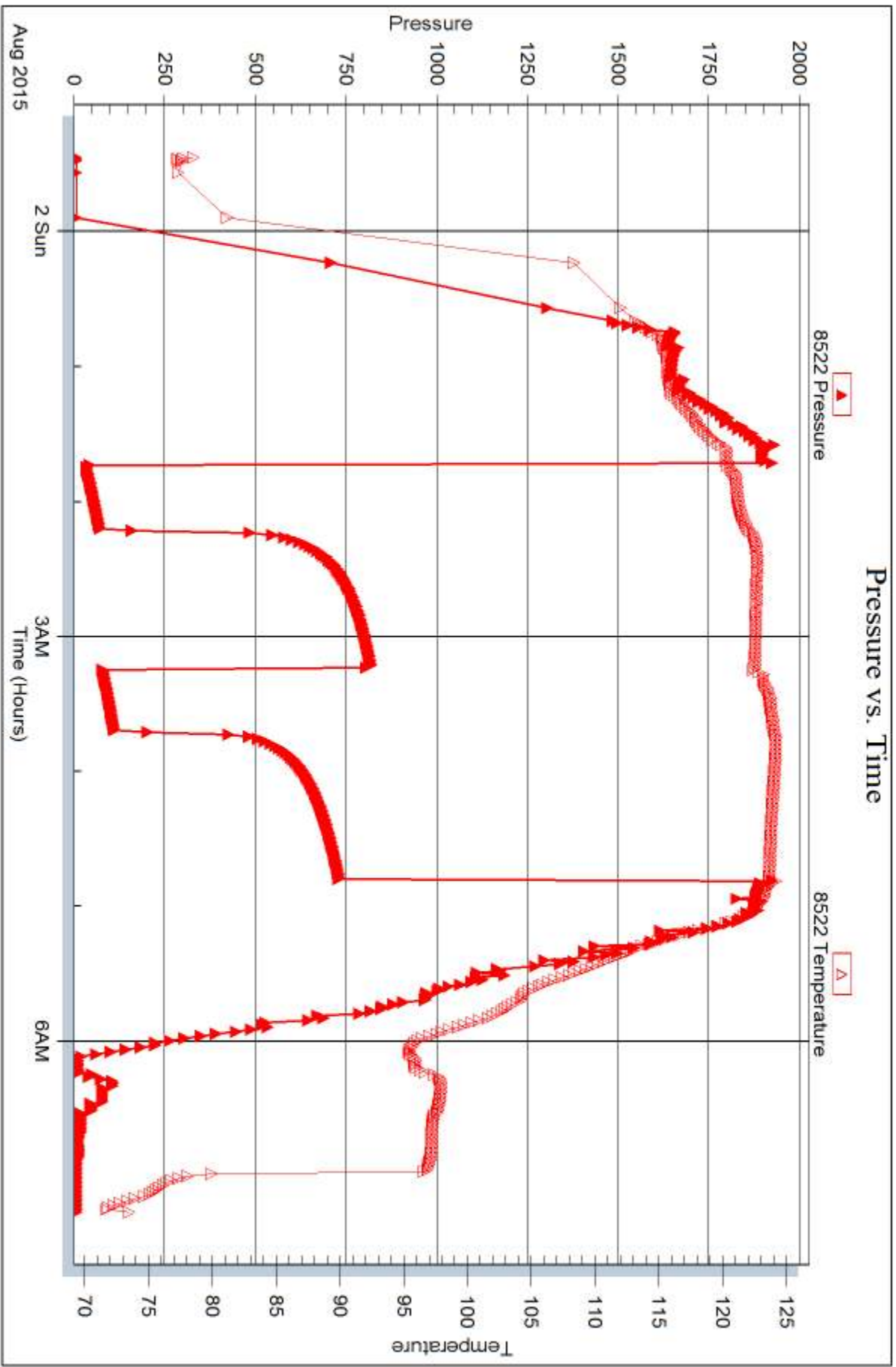


Serial #: 8522

Outside K3 Oil & Gas Operating Co

Eaton #3-18

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **K3 Oil & Gas Operating Co**

211 Highland Cross Ste 205  
Houston, TX 77073

ATTN: Tom Williams

**Eaton #3-18**

**18-16s-28w Lane,KS**

Start Date: 2015.08.02 @ 23:20:00

End Date: 2015.08.03 @ 05:25:00

Job Ticket #: 61808                      DST #: 2

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

Printed: 2015.08.08 @ 09:56:13



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

K3 Oil & Gas Operating Co

**18-16s-28w Lane, KS**

211 Highland Cross Ste 205  
Houston, TX 77073

**Eaton #3-18**

Job Ticket: 61808

**DST#: 2**

ATTN: Tom Williams

Test Start: 2015.08.02 @ 23:20:00

## GENERAL INFORMATION:

Formation: **LKC - H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:50:30

Time Test Ended: 05:25:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

**Interval: 3988.00 ft (KB) To 4016.00 ft (KB) (TVD)**

Reference Elevations: 2657.00 ft (KB)

Total Depth: 4016.00 ft (KB) (TVD)

2648.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 8365**

**Inside**

Press@RunDepth: 165.22 psig @ 3989.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.02

End Date:

2015.08.03

Last Calib.:

2015.08.03

Start Time: 23:20:05

End Time:

05:24:59

Time On Btm:

2015.08.03 @ 00:50:15

Time Off Btm:

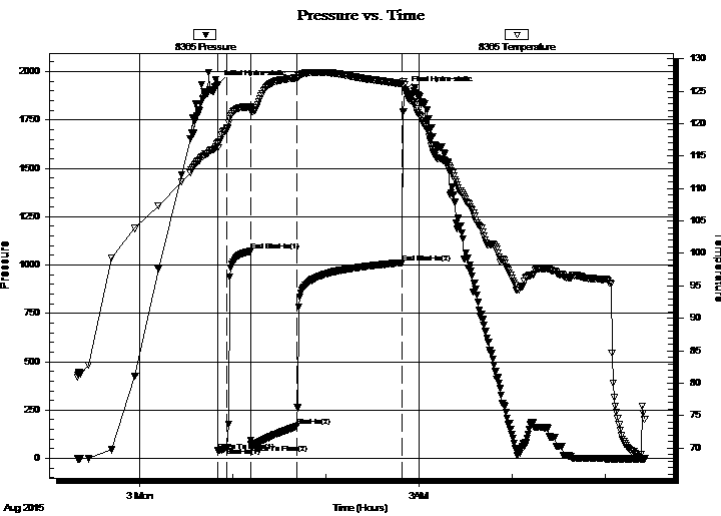
2015.08.03 @ 02:50:30

TEST COMMENT: IF: BOB @ 2.5 min.

IS: 1" return.

FF: BOB @ 2 min.

FS: 9" return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1935.00	116.96	Initial Hydro-static
1	38.38	116.32	Open To Flow (1)
6	56.75	119.12	Shut-In(1)
21	1071.59	122.51	End Shut-In(1)
22	70.72	122.19	Open To Flow (2)
51	165.22	127.05	Shut-In(2)
119	1012.46	126.14	End Shut-In(2)
121	1904.02	126.03	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	gmco 30g 30m 40o	1.26
320.00	go 30g 70o	4.49
0.00	600' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE**  
TESTING, INC.

**DRILL STEM TEST REPORT**

K3 Oil & Gas Operating Co

**18-16s-28w Lane, KS**

211 Highland Cross Ste 205  
Houston, TX 77073

**Eaton #3-18**

Job Ticket: 61808

**DST#: 2**

ATTN: Tom Williams

Test Start: 2015.08.02 @ 23:20:00

**GENERAL INFORMATION:**

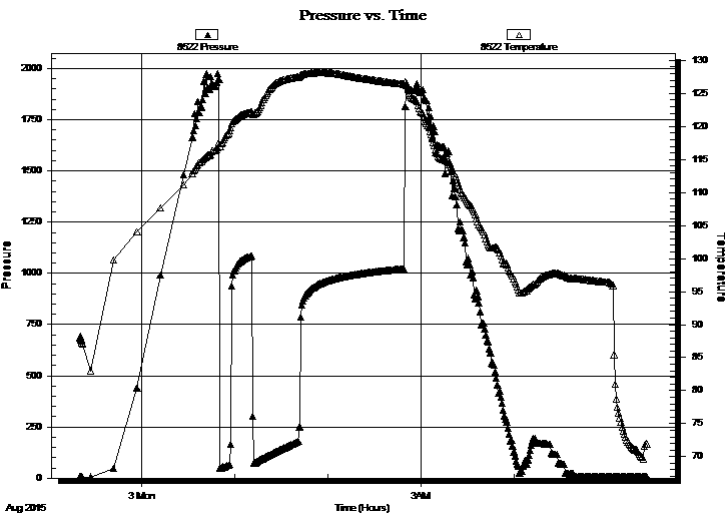
Formation: **LKC - H**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:50:30  
 Time Test Ended: 05:25:00  
**Interval: 3988.00 ft (KB) To 4016.00 ft (KB) (TVD)**  
 Total Depth: 4016.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 69  
 Reference Elevations: 2657.00 ft (KB)  
 2648.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 8522 Outside**

Press@RunDepth: psig @ 3989.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.08.02 End Date: 2015.08.03 Last Calib.: 2015.08.03  
 Start Time: 23:20:05 End Time: 05:24:59 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: BOB @ 2.5 min.  
 IS: 1" return.  
 FF: BOB @ 2 min.  
 FS: 9" return.



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
90.00	gmco 30g 30m 40o	1.26
320.00	go 30g 70o	4.49
0.00	600' GIP	0.00

\* Recovery from multiple tests

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

K3 Oil & Gas Operating Co

**18-16s-28w Lane,KS**

211 Highland Cross Ste 205  
Houston, TX 77073

**Eaton #3-18**

Job Ticket: 61808

**DST#: 2**

ATTN: Tom Williams

Test Start: 2015.08.02 @ 23:20:00

## Tool Information

Drill Pipe:	Length: 3966.00 ft	Diameter: 3.80 inches	Volume: 55.63 bbl	Tool Weight: 2500.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 55.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3988.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3962.00	
Shut In Tool	5.00			3967.00	
Hydraulic tool	5.00			3972.00	
Jars	5.00			3977.00	
Safety Joint	2.00			3979.00	
Packer	5.00			3984.00	27.00 Bottom Of Top Packer
Packer	4.00			3988.00	
Stubb	1.00			3989.00	
Recorder	0.00	8365	Inside	3989.00	
Recorder	0.00	8522	Outside	3989.00	
Perforations	24.00			4013.00	
Bullnose	3.00			4016.00	28.00 Bottom Packers & Anchor

**Total Tool Length: 55.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

K3 Oil & Gas Operating Co

**18-16s-28w Lane,KS**

211 Highland Cross Ste 205  
Houston, TX 77073

**Eaton #3-18**

Job Ticket: 61808

**DST#: 2**

ATTN: Tom Williams

Test Start: 2015.08.02 @ 23:20:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 60.00 sec/qt  
Water Loss: 7.79 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 2700.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: 34 deg API  
Water Salinity: 0 ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	gmco 30g 30m 40o	1.262
320.00	go 30g 70o	4.489
0.00	600' GIP	0.000

Total Length: 410.00 ft      Total Volume: 5.751 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

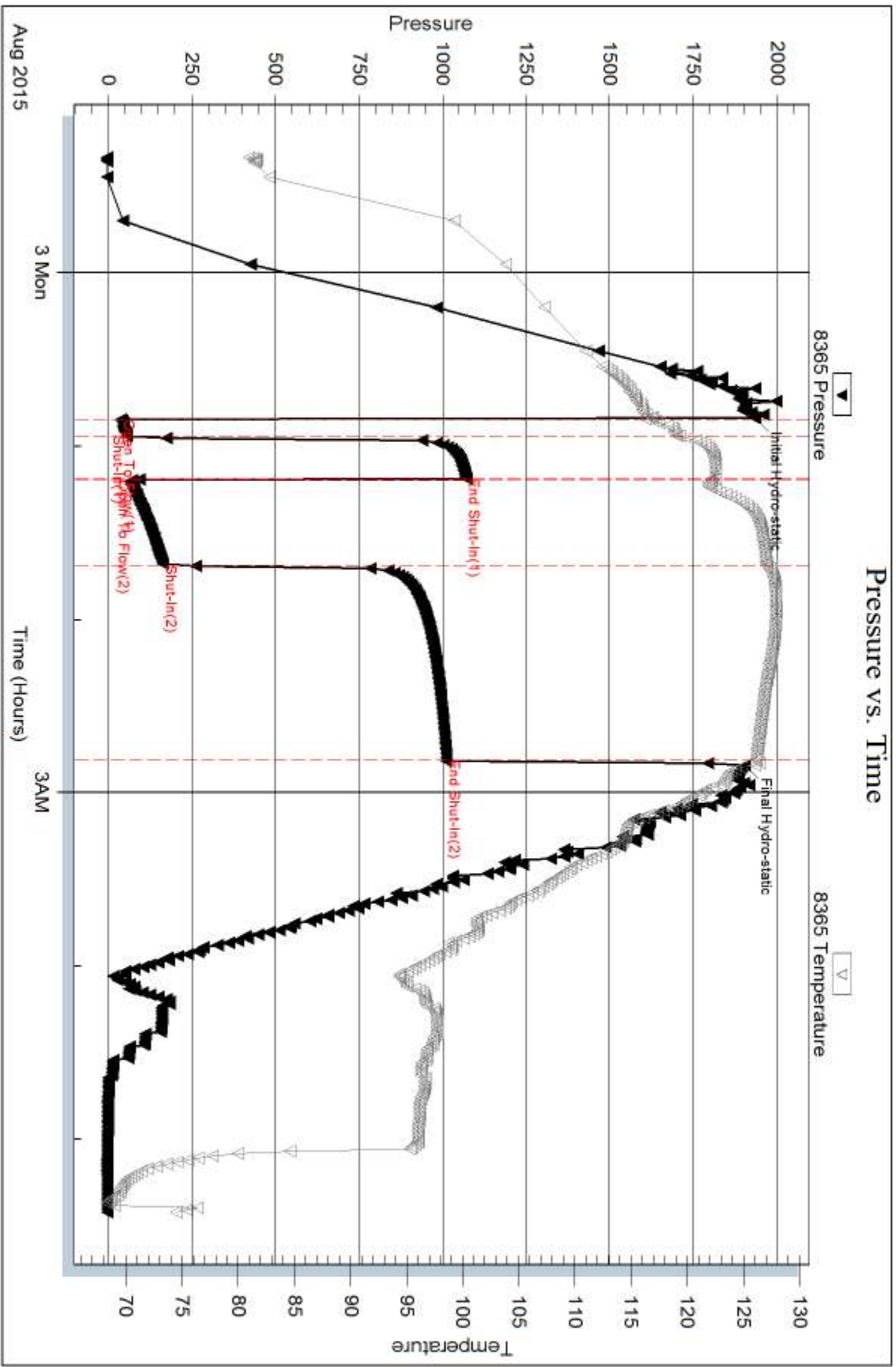
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



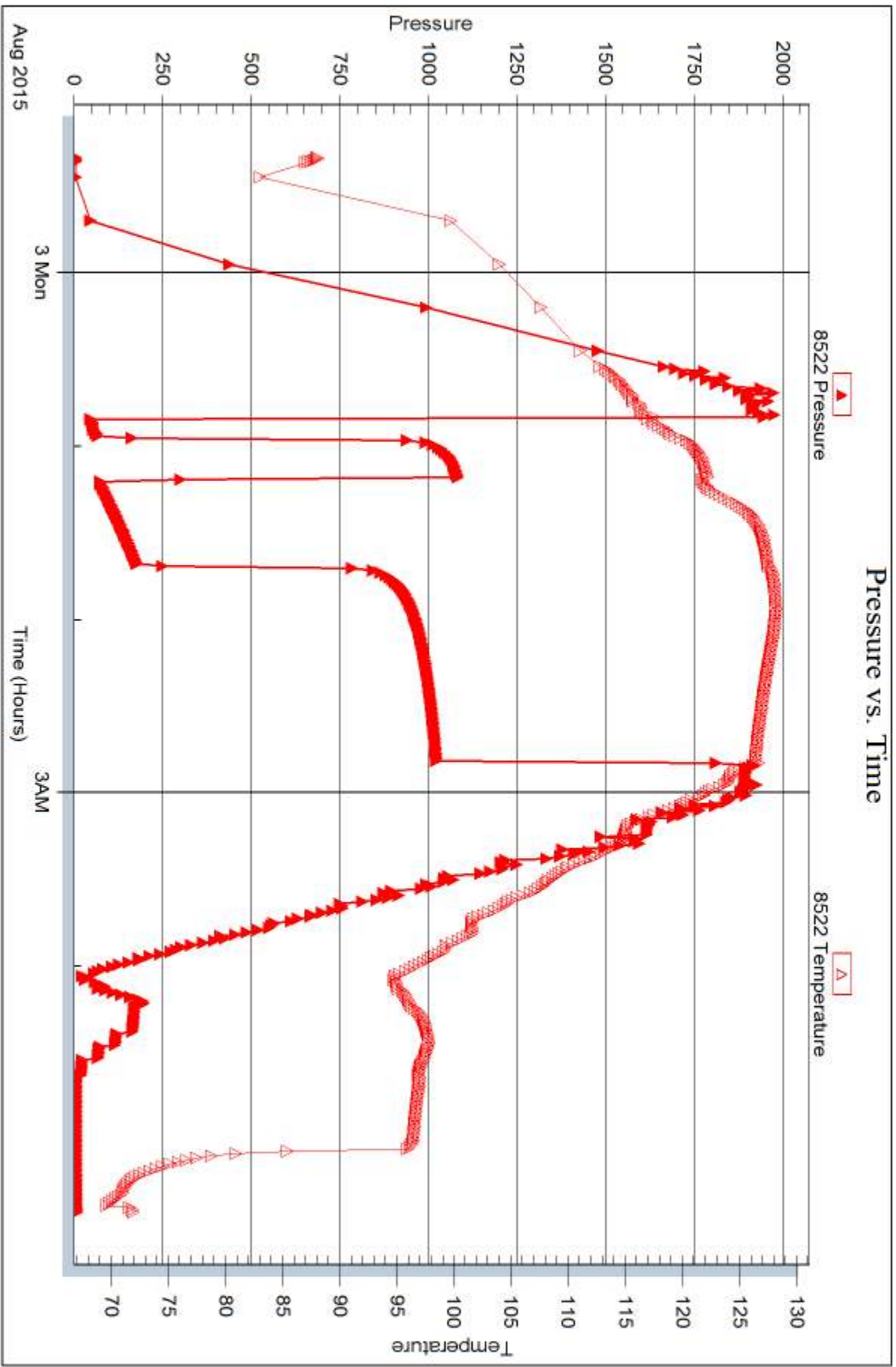


Serial #: 8522

Outside K3 Oil & Gas Operating Co

Eaton #3-18

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 61808

Printed: 2015.08.08 @ 09:56:14



## DRILL STEM TEST REPORT

Prepared For: **K3 Oil & Gas Operating Co**

211 Highland Cross Ste 205  
Houston, TX 77073

ATTN: Tom Williams

### **Eaton #3-18**

#### **18-16s-28w Lane,KS**

Start Date: 2015.08.03 @ 15:15:00

End Date: 2015.08.03 @ 20:08:00

Job Ticket #: 61809                      DST #: 3

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

Printed: 2015.08.08 @ 09:55:51



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

K3 Oil & Gas Operating Co

**18-16s-28w Lane, KS**

211 Highland Cross Ste 205  
Houston, TX 77073

**Eaton #3-18**

Job Ticket: 61809

**DST#: 3**

ATTN: Tom Williams

Test Start: 2015.08.03 @ 15:15:00

## GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:47:00

Time Test Ended: 20:08:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

**Interval: 4050.00 ft (KB) To 4075.00 ft (KB) (TVD)**

Reference Elevations: 2657.00 ft (KB)

Total Depth: 4075.00 ft (KB) (TVD)

2648.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 8365**

**Inside**

Press@RunDepth: 15.78 psig @ 4051.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.03

End Date:

2015.08.03

Last Calib.:

2015.08.03

Start Time: 15:15:05

End Time:

20:07:59

Time On Btm:

2015.08.03 @ 16:46:30

Time Off Btm:

2015.08.03 @ 18:51:45

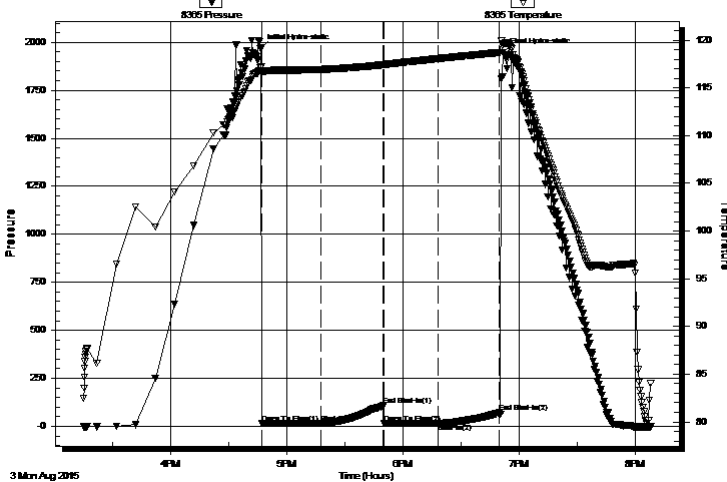
TEST COMMENT: IF: Surface blow .

IS: No return

FF: No blow .

FS: No return

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1969.22	117.14	Initial Hydro-static
1	13.62	116.47	Open To Flow (1)
32	14.88	116.94	Shut-In(1)
64	107.86	117.43	End Shut-In(1)
64	15.37	117.43	Open To Flow (2)
92	15.78	118.08	Shut-In(2)
124	70.84	118.71	End Shut-In(2)
126	1946.76	119.68	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m (oil spots)	0.07

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

K3 Oil & Gas Operating Co  
211 Highland Cross Ste 205  
Houston, TX 77073  
ATTN: Tom Williams

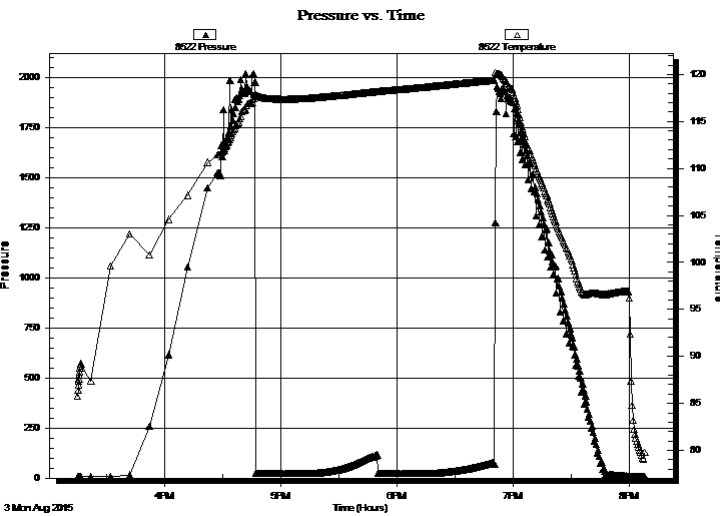
**18-16s-28w Lane, KS**  
**Eaton #3-18**  
Job Ticket: 61809 **DST#: 3**  
Test Start: 2015.08.03 @ 15:15:00

## GENERAL INFORMATION:

Formation: <b>LKC J</b>		
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 16:47:00		Tester: Bradley Walter
Time Test Ended: 20:08:00		Unit No: 69
<b>Interval: 4050.00 ft (KB) To 4075.00 ft (KB) (TVD)</b>		Reference Elevations: 2657.00 ft (KB)
Total Depth: 4075.00 ft (KB) (TVD)		2648.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 9.00 ft

<b>Serial #: 8522</b>	<b>Outside</b>		
Press@RunDepth: psig @	4051.00 ft (KB)	Capacity:	8000.00 psig
Start Date: 2015.08.03	End Date: 2015.08.03	Last Calib.:	2015.08.03
Start Time: 15:15:05	End Time: 20:07:59	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF: Surface blow .  
IS: No return  
FF: No blow .  
FS: No return



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m (oil spots)	0.07

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

K3 Oil & Gas Operating Co

**18-16s-28w Lane,KS**

211 Highland Cross Ste 205  
Houston, TX 77073

**Eaton #3-18**

Job Ticket: 61809

**DST#: 3**

ATTN: Tom Williams

Test Start: 2015.08.03 @ 15:15:00

## Tool Information

Drill Pipe:	Length: 4028.00 ft	Diameter: 3.80 inches	Volume: 56.50 bbl	Tool Weight: 2500.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 56.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	4050.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	52.00 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			4024.00	
Shut In Tool	5.00			4029.00	
Hydraulic tool	5.00			4034.00	
Jars	5.00			4039.00	
Safety Joint	2.00			4041.00	
Packer	5.00			4046.00	27.00 Bottom Of Top Packer
Packer	4.00			4050.00	
Stubb	1.00			4051.00	
Recorder	0.00	8365	Inside	4051.00	
Recorder	0.00	8522	Outside	4051.00	
Perforations	21.00			4072.00	
Bullnose	3.00			4075.00	25.00 Bottom Packers & Anchor

**Total Tool Length: 52.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

K3 Oil & Gas Operating Co

**18-16s-28w Lane,KS**

211 Highland Cross Ste 205  
Houston, TX 77073

**Eaton #3-18**

Job Ticket: 61809

**DST#: 3**

ATTN: Tom Williams

Test Start: 2015.08.03 @ 15:15:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 32000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100m (oil spots)	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

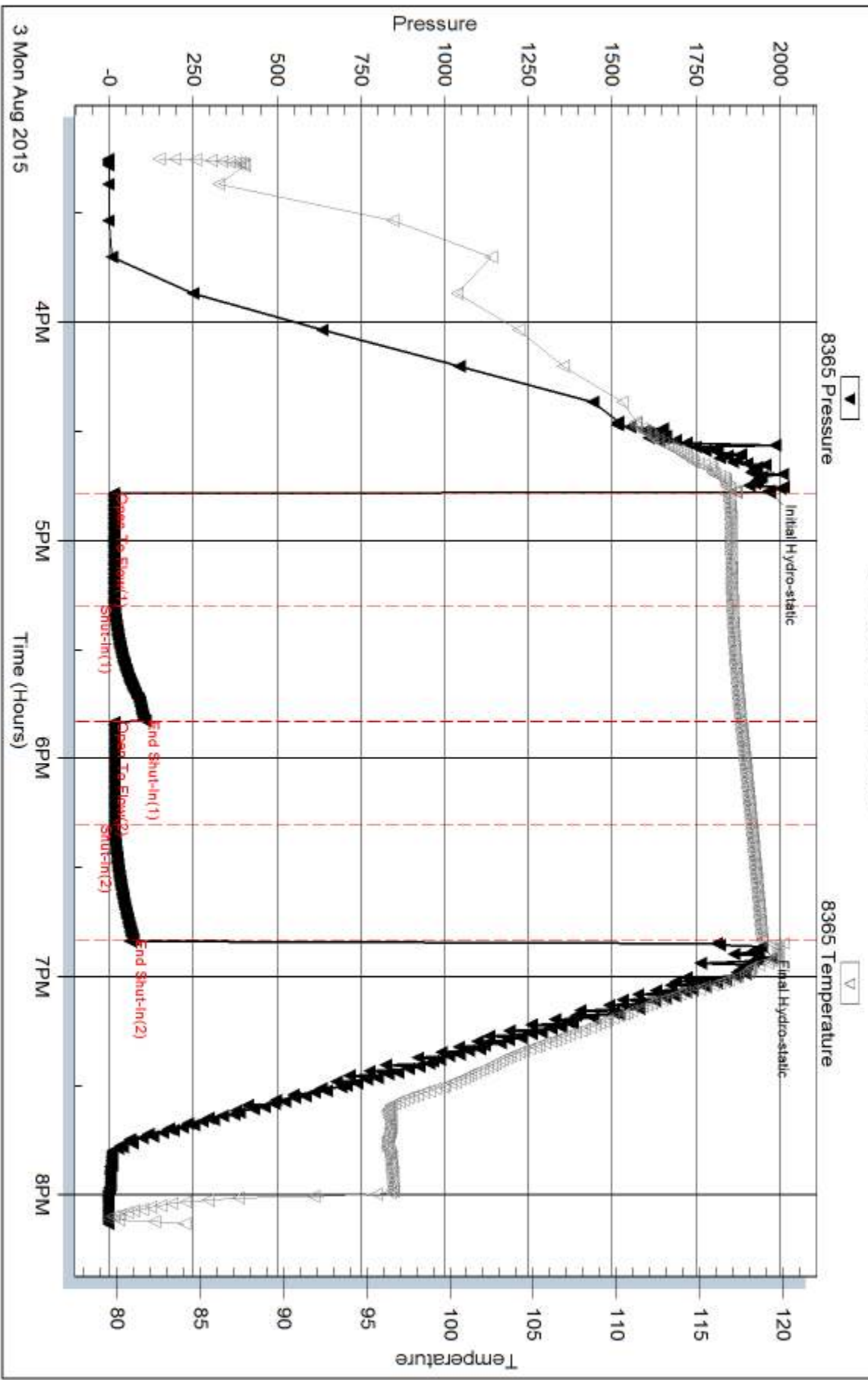
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



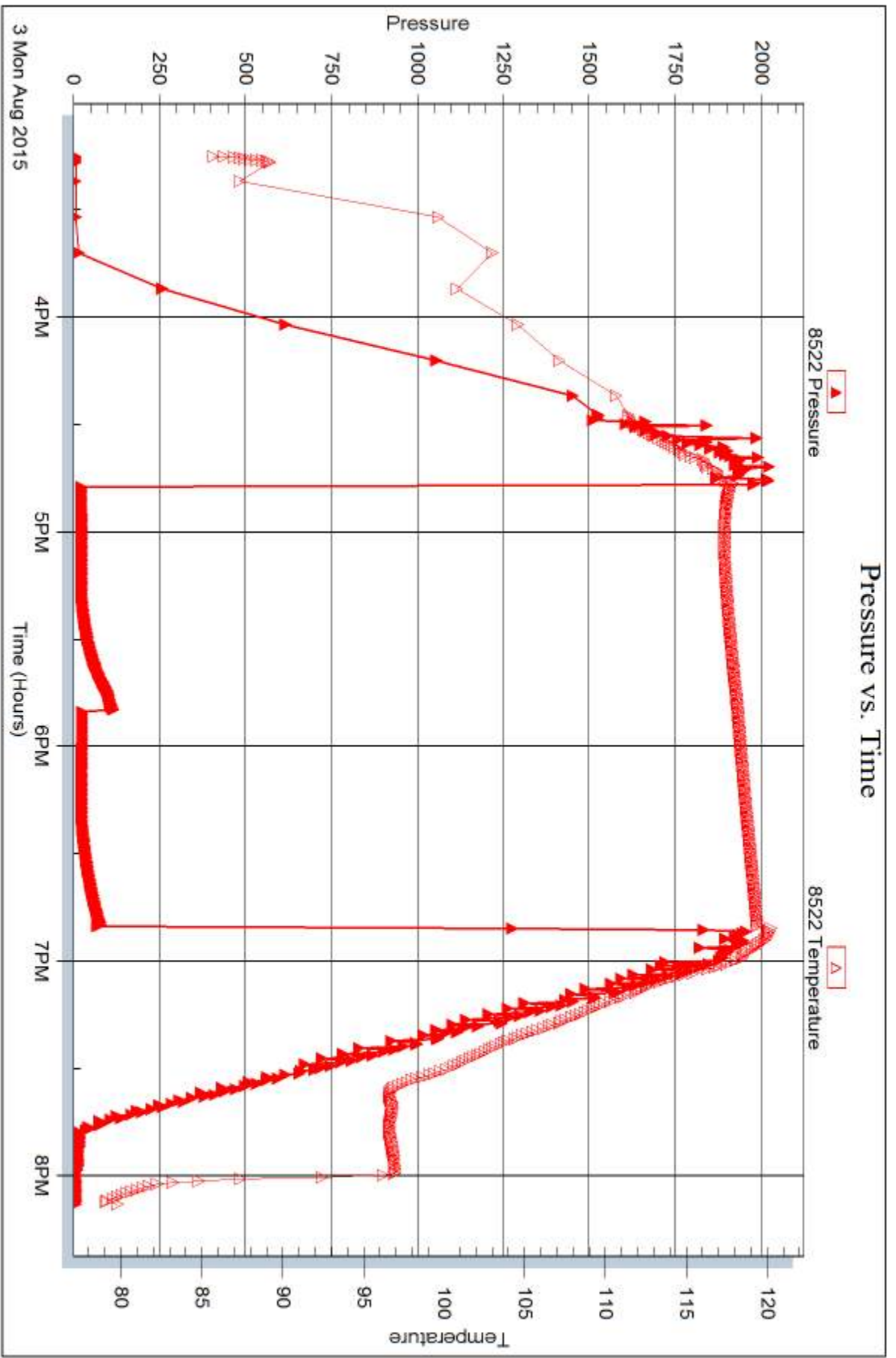


Serial #: 8522

Outside K3 Oil & Gas Operating Co

Eaton #3-18

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 61809

Printed: 2015.08.08 @ 09:55:53



## DRILL STEM TEST REPORT

Prepared For: **K3 Oil & Gas Operating Co**

211 Highland Cross Ste 205  
Houston, TX 77073

ATTN: Tom Williams

**Eaton #3-18**

**18-16s-28w Lane,KS**

Start Date: 2015.08.04 @ 04:20:00

End Date: 2015.08.04 @ 11:28:00

Job Ticket #: 61810                      DST #: 4

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

Printed: 2015.08.08 @ 09:55:29



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

K3 Oil & Gas Operating Co

**18-16s-28w Lane, KS**

211 Highland Cross Ste 205  
Houston, TX 77073

**Eaton #3-18**

Job Ticket: 61810

**DST#: 4**

ATTN: Tom Williams

Test Start: 2015.08.04 @ 04:20:00

## GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:49:00

Time Test Ended: 11:28:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

**Interval: 4070.00 ft (KB) To 4110.00 ft (KB) (TVD)**

Reference Elevations: 2657.00 ft (KB)

Total Depth: 4070.00 ft (KB) (TVD)

2648.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 8365**

**Inside**

Press@RunDepth: 22.78 psig @ 4071.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.04

End Date:

2015.08.04

Last Calib.: 2015.08.04

Start Time: 04:20:05

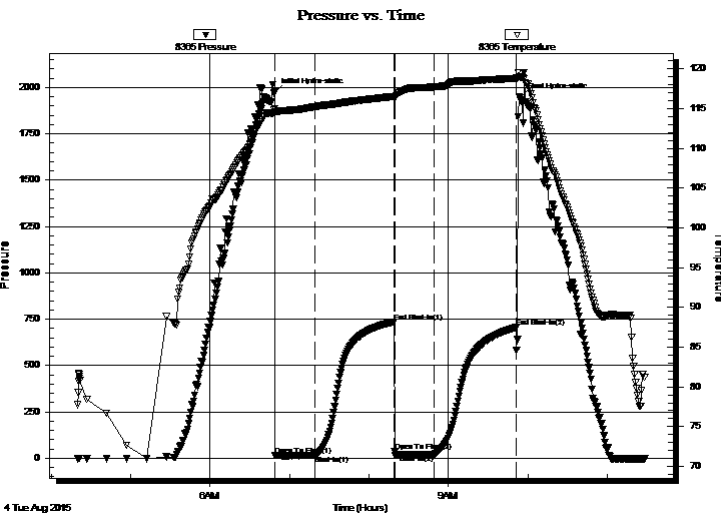
End Time:

11:27:59

Time On Btm: 2015.08.04 @ 06:48:45

Time Off Btm: 2015.08.04 @ 09:53:45

TEST COMMENT: IF: 3" blow.  
IS: No return.  
FF: 4" blow.  
FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1974.85	114.98	Initial Hydro-static
1	15.67	114.37	Open To Flow (1)
31	15.98	115.26	Shut-In(1)
91	736.06	116.55	End Shut-In(1)
91	35.62	116.31	Open To Flow (2)
120	22.78	117.73	Shut-In(2)
183	705.69	118.84	End Shut-In(2)
185	1944.21	119.02	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	ocm 30o 70m	0.42
0.00	90" GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

K3 Oil & Gas Operating Co

**18-16s-28w Lane,KS**

211 Highland Cross Ste 205  
Houston, TX 77073

**Eaton #3-18**

Job Ticket: 61810

**DST#: 4**

ATTN: Tom Williams

Test Start: 2015.08.04 @ 04:20:00

## Tool Information

Drill Pipe:	Length: 4050.00 ft	Diameter: 3.80 inches	Volume: 56.81 bbl	Tool Weight: 2500.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 56.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	4070.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	57.00 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			4044.00	
Shut In Tool	5.00			4049.00	
Hydraulic tool	5.00			4054.00	
Jars	5.00			4059.00	
Safety Joint	2.00			4061.00	
Packer	5.00			4066.00	27.00 Bottom Of Top Packer
Packer	4.00			4070.00	
Stubb	1.00			4071.00	
Recorder	0.00	8365	Inside	4071.00	
Recorder	0.00	8522	Outside	4071.00	
Perforations	26.00			4097.00	
Bullnose	3.00			4100.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 57.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

K3 Oil & Gas Operating Co

**18-16s-28w Lane,KS**

211 Highland Cross Ste 205  
Houston, TX 77073

**Eaton #3-18**

Job Ticket: 61810

**DST#: 4**

ATTN: Tom Williams

Test Start: 2015.08.04 @ 04:20:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	ocm 30o 70m	0.421
0.00	90" GIP	0.000

Total Length: 30.00 ft      Total Volume: 0.421 bbl

Num Fluid Samples: 0

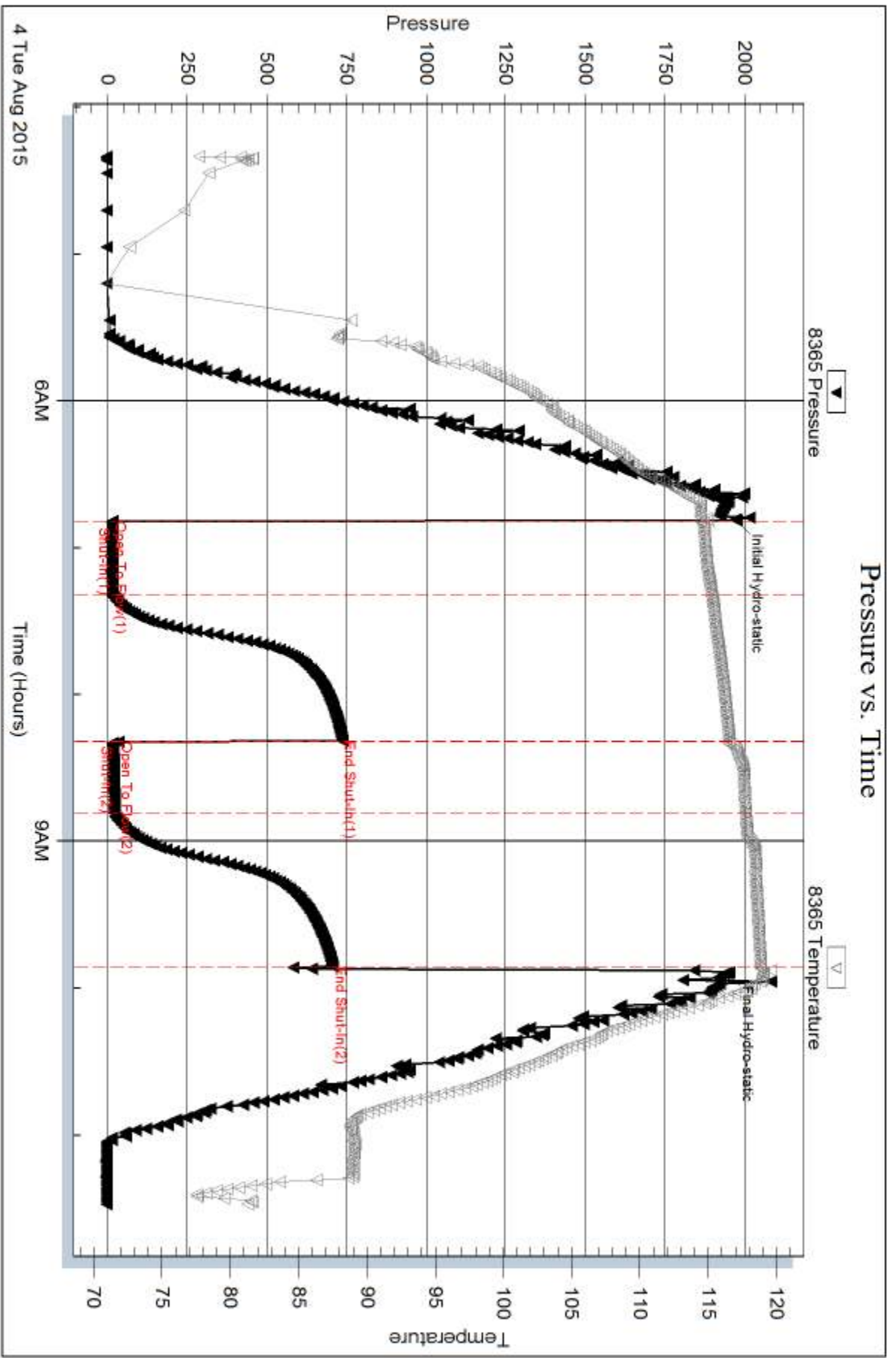
Num Gas Bombs: 0

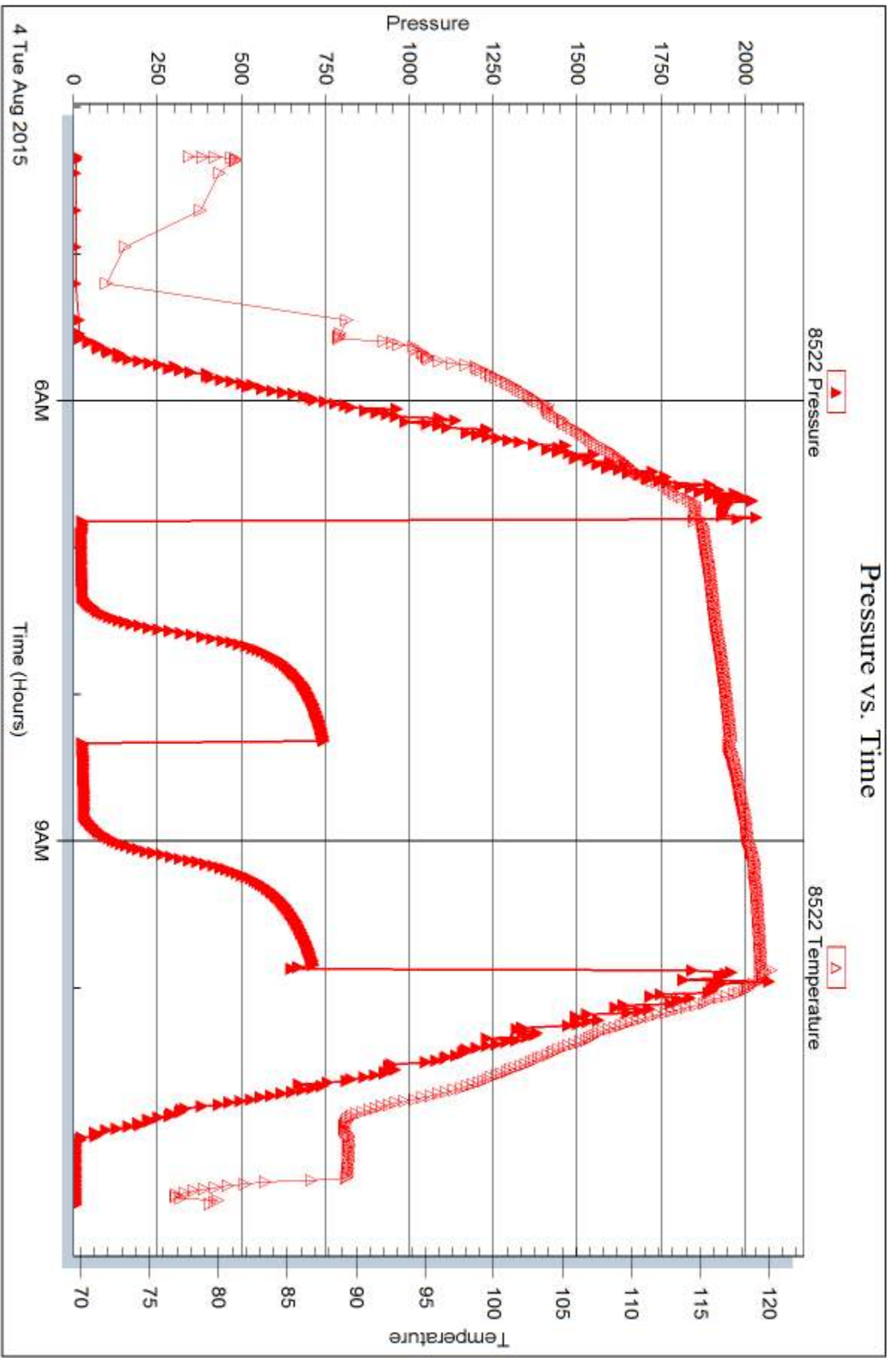
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **K3 Oil & Gas Operating Co**

211 Highland Cross Ste 205  
Houston, TX 77073

ATTN: Tom Williams

### **Eaton #3-18**

#### **18-16s-28w Lane,KS**

Start Date: 2015.08.04 @ 22:41:00

End Date: 2015.08.05 @ 05:41:15

Job Ticket #: 61811                      DST #: 5

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

Printed: 2015.08.08 @ 09:55:04



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

K3 Oil & Gas Operating Co

**18-16s-28w Lane, KS**

211 Highland Cross Ste 205  
Houston, TX 77073

**Eaton #3-18**

Job Ticket: 61811

**DST#: 5**

ATTN: Tom Williams

Test Start: 2015.08.04 @ 22:41:00

## GENERAL INFORMATION:

Formation: **Marmaton - Lenapah**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:31:15

Time Test Ended: 05:41:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

**Interval: 4146.00 ft (KB) To 4184.00 ft (KB) (TVD)**

Reference Elevations: 2657.00 ft (KB)

Total Depth: 4186.00 ft (KB) (TVD)

2648.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 8365**

**Inside**

Press@RunDepth: 20.97 psig @ 4147.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.04

End Date:

2015.08.05

Last Calib.:

2015.08.05

Start Time: 22:41:05

End Time:

05:41:14

Time On Btm:

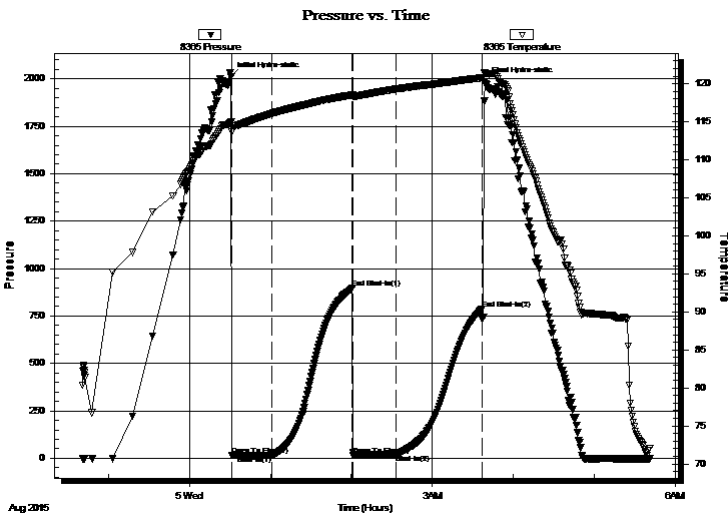
2015.08.05 @ 00:31:00

Time Off Btm:

2015.08.05 @ 03:39:00

TEST COMMENT: IF: 3 1/2 Inches blow .  
IS: No return.  
FF: 5" blow .  
FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2010.79	115.03	Initial Hydro-static
1	16.07	113.64	Open To Flow (1)
30	16.42	116.08	Shut-In(1)
90	897.49	118.52	End Shut-In(1)
91	15.94	118.38	Open To Flow (2)
122	20.97	119.28	Shut-In(2)
186	786.69	120.77	End Shut-In(2)
188	1986.55	121.34	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	ocm 25o 75m	0.42
0.00	no gassy odor	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

K3 Oil & Gas Operating Co

**18-16s-28w Lane, KS**

211 Highland Cross Ste 205  
Houston, TX 77073

**Eaton #3-18**

Job Ticket: 61811

**DST#: 5**

ATTN: Tom Williams

Test Start: 2015.08.04 @ 22:41:00

## GENERAL INFORMATION:

Formation: **Marmaton - Lenapah**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:31:15

Time Test Ended: 05:41:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

**Interval: 4146.00 ft (KB) To 4184.00 ft (KB) (TVD)**

Total Depth: 4186.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2657.00 ft (KB)

2648.00 ft (CF)

KB to GR/CF: 9.00 ft

**Serial #: 8522 Outside**

Press@RunDepth: psig @ 4147.00 ft (KB)

Start Date: 2015.08.04

End Date:

2015.08.05

Start Time: 22:41:05

End Time:

05:41:14

Capacity: 8000.00 psig

Last Calib.:

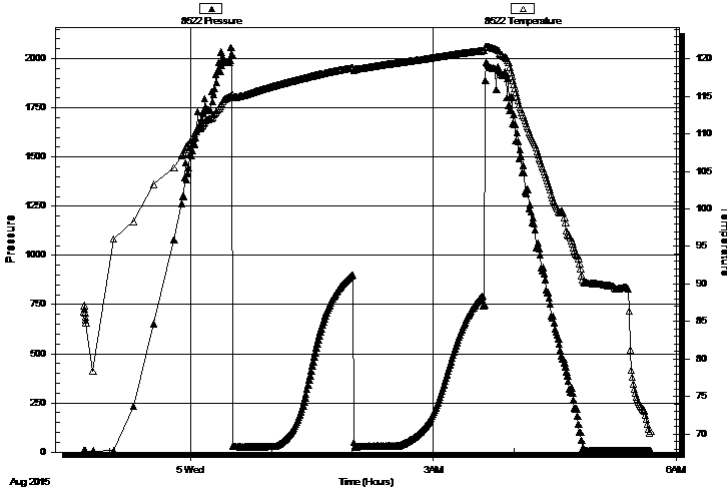
2015.08.05

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 3 1/2 inches blow .  
IS: No return.  
FF: 5" blow .  
FS: No return.

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	ocm 25o 75m	0.42
0.00	no gassy odor	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**

K3 Oil & Gas Operating Co

**18-16s-28w Lane,KS**

211 Highland Cross Ste 205  
Houston, TX 77073

**Eaton #3-18**

Job Ticket: 61811

**DST#: 5**

ATTN: Tom Williams

Test Start: 2015.08.04 @ 22:41:00

## Tool Information

Drill Pipe:	Length: 4125.00 ft	Diameter: 3.80 inches	Volume: 57.86 bbl	Tool Weight: 2500.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 57.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4146.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	65.00 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			4120.00	
Shut In Tool	5.00			4125.00	
Hydraulic tool	5.00			4130.00	
Jars	5.00			4135.00	
Safety Joint	2.00			4137.00	
Packer	5.00			4142.00	27.00 Bottom Of Top Packer
Packer	4.00			4146.00	
Stubb	1.00			4147.00	
Recorder	0.00	8365	Inside	4147.00	
Recorder	0.00	8522	Outside	4147.00	
Perforations	34.00			4181.00	
Bullnose	3.00			4184.00	38.00 Bottom Packers & Anchor

**Total Tool Length: 65.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

K3 Oil & Gas Operating Co

**18-16s-28w Lane,KS**

211 Highland Cross Ste 205  
Houston, TX 77073

**Eaton #3-18**

Job Ticket: 61811

**DST#: 5**

ATTN: Tom Williams

Test Start: 2015.08.04 @ 22:41:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	ocm 25o 75m	0.421
0.00	no gassy odor	0.000

Total Length: 30.00 ft      Total Volume: 0.421 bbl

Num Fluid Samples: 0

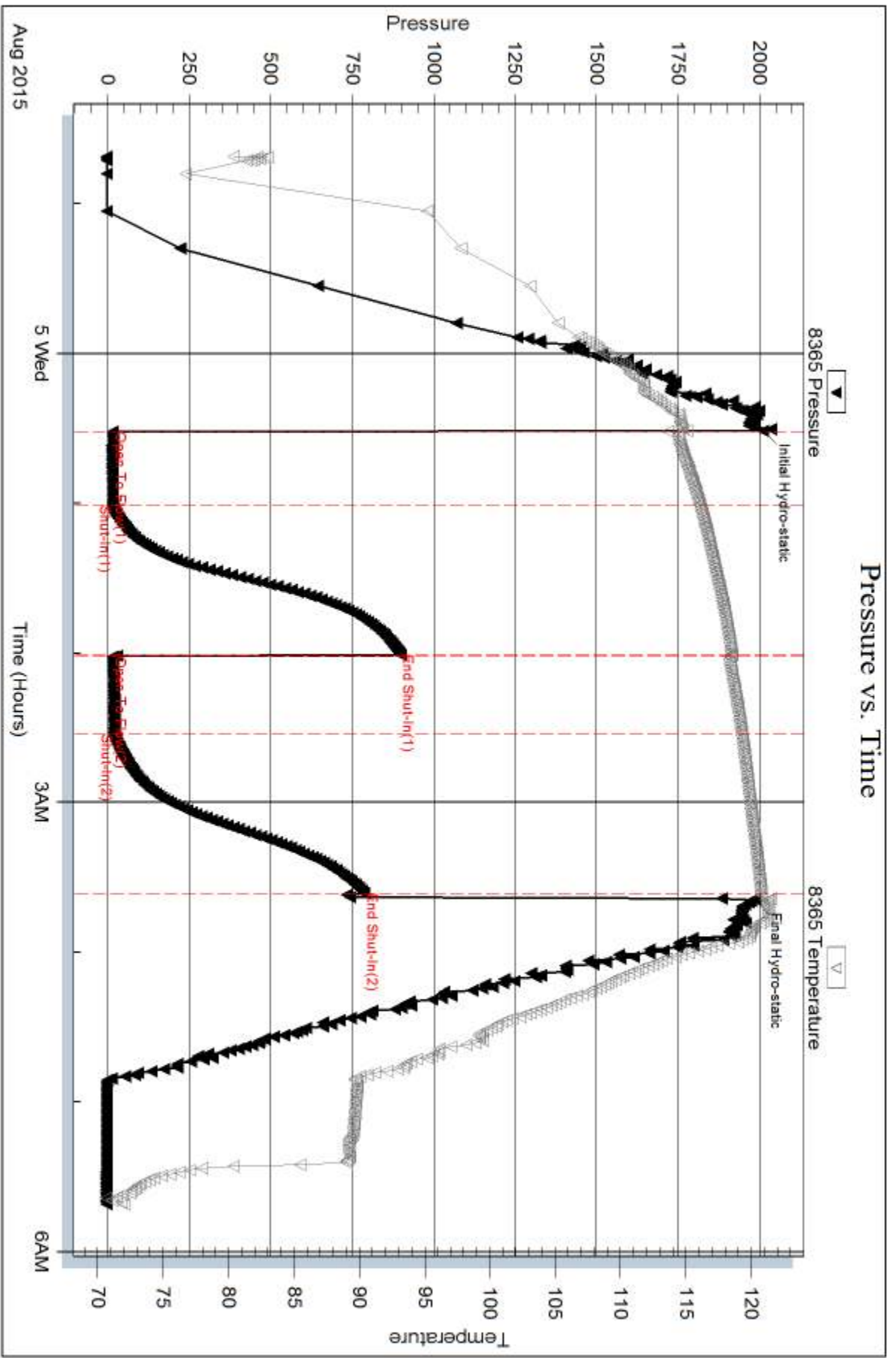
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

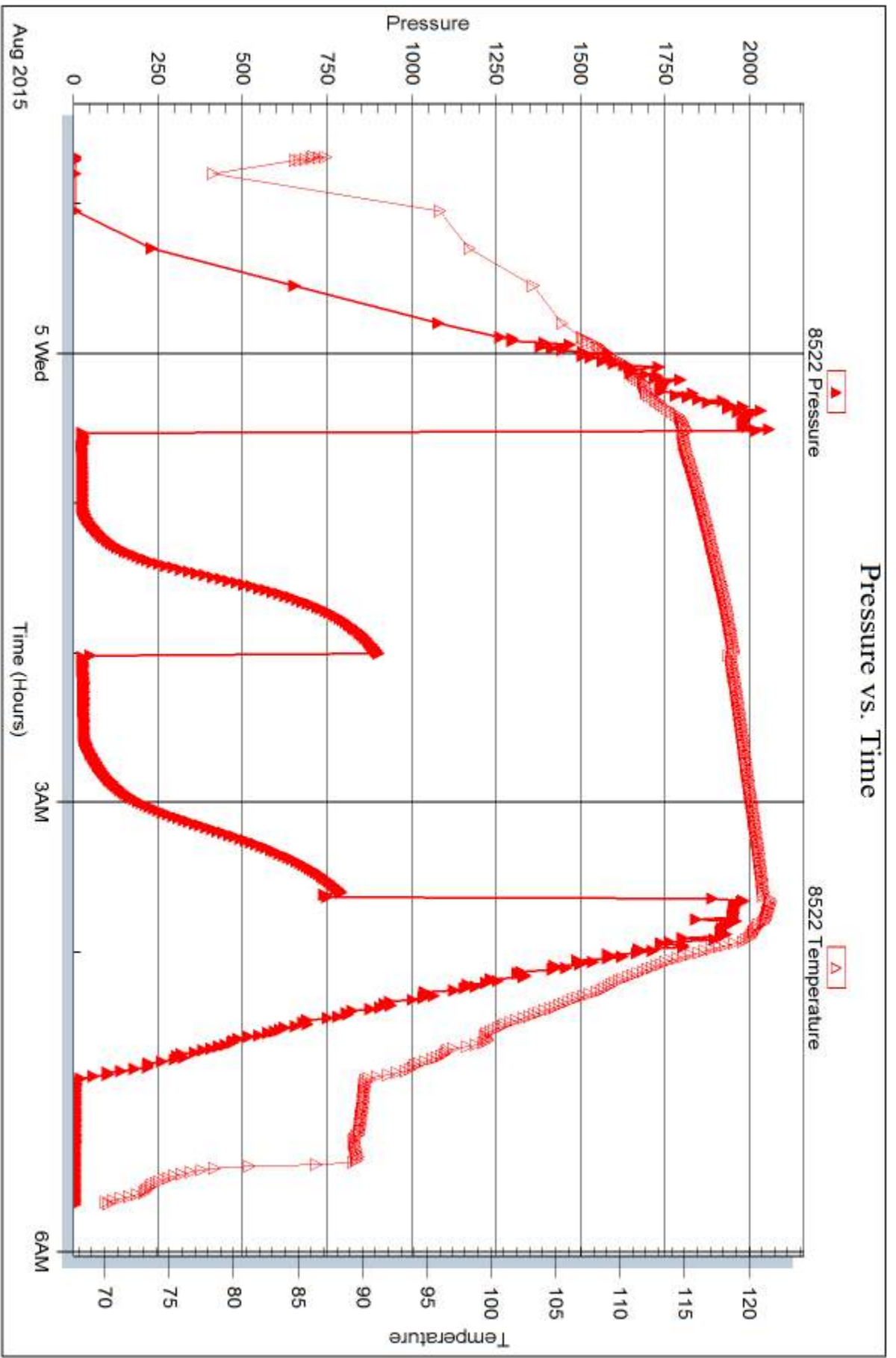


Serial #: 8522

Outside K3 Oil & Gas Operating Co

Eaton #3-18

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 61811

Printed: 2015.08.08 @ 09:55:06



## DRILL STEM TEST REPORT

Prepared For: **K3 Oil & Gas Operating Co**

211 Highland Cross Ste 205  
Houston, TX 77073

ATTN: Tom Williams

**Eaton #3-18**

**18-16s-28w Lane,KS**

Start Date: 2015.08.05 @ 21:31:00

End Date: 2015.08.06 @ 03:18:15

Job Ticket #: 61812                      DST #: 6

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

Printed: 2015.08.08 @ 09:20:03





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

K3 Oil & Gas Operating Co

**18-16s-28w Lane, KS**

211 Highland Cross Ste 205  
Houston, TX 77073

**Eaton #3-18**

Job Ticket: 61812

**DST#: 6**

ATTN: Tom Williams

Test Start: 2015.08.05 @ 21:31:00

## GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:04:45

Time Test Ended: 03:18:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

**Interval: 4312.00 ft (KB) To 4350.00 ft (KB) (TVD)**

Reference Elevations: 2657.00 ft (KB)

Total Depth: 4350.00 ft (KB) (TVD)

2648.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 8365**

**Inside**

Press@RunDepth: 15.49 psig @ 4313.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.05

End Date:

2015.08.06

Last Calib.:

2015.08.06

Start Time:

21:31:05

End Time:

03:18:14

Time On Btm:

2015.08.05 @ 23:04:30

Time Off Btm:

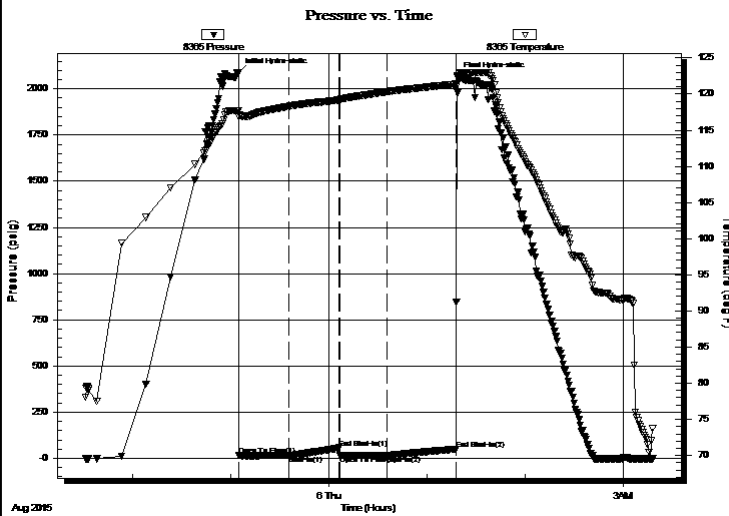
2015.08.06 @ 01:18:30

TEST COMMENT: IF: Weak surface blow .

IS: No return.

FF: No blow .

FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2087.37	117.72	Initial Hydro-static
1	14.75	116.79	Open To Flow (1)
31	15.03	118.30	Shut-In(1)
62	56.02	119.18	End Shut-In(1)
63	15.40	119.21	Open To Flow (2)
91	15.49	120.31	Shut-In(2)
134	49.54	121.37	End Shut-In(2)
134	2063.53	122.35	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m (oil spots)	0.07

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

K3 Oil & Gas Operating Co

**18-16s-28w Lane,KS**

211 Highland Cross Ste 205  
Houston, TX 77073

**Eaton #3-18**

Job Ticket: 61812

**DST#: 6**

ATTN: Tom Williams

Test Start: 2015.08.05 @ 21:31:00

## Tool Information

Drill Pipe:	Length: 4312.00 ft	Diameter: 3.80 inches	Volume: 60.49 bbl	Tool Weight: 2500.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 60.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4312.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	65.00 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			4286.00	
Shut In Tool	5.00			4291.00	
Hydraulic tool	5.00			4296.00	
Jars	5.00			4301.00	
Safety Joint	2.00			4303.00	
Packer	5.00			4308.00	27.00 Bottom Of Top Packer
Packer	4.00			4312.00	
Stubb	1.00			4313.00	
Recorder	0.00	8365	Inside	4313.00	
Recorder	0.00	8522	Outside	4313.00	
Perforations	34.00			4347.00	
Bullnose	3.00			4350.00	38.00 Bottom Packers & Anchor

**Total Tool Length: 65.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

K3 Oil & Gas Operating Co

**18-16s-28w Lane,KS**

211 Highland Cross Ste 205  
Houston, TX 77073

**Eaton #3-18**

Job Ticket: 61812

**DST#: 6**

ATTN: Tom Williams

Test Start: 2015.08.05 @ 21:31:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100m (oil spots)	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

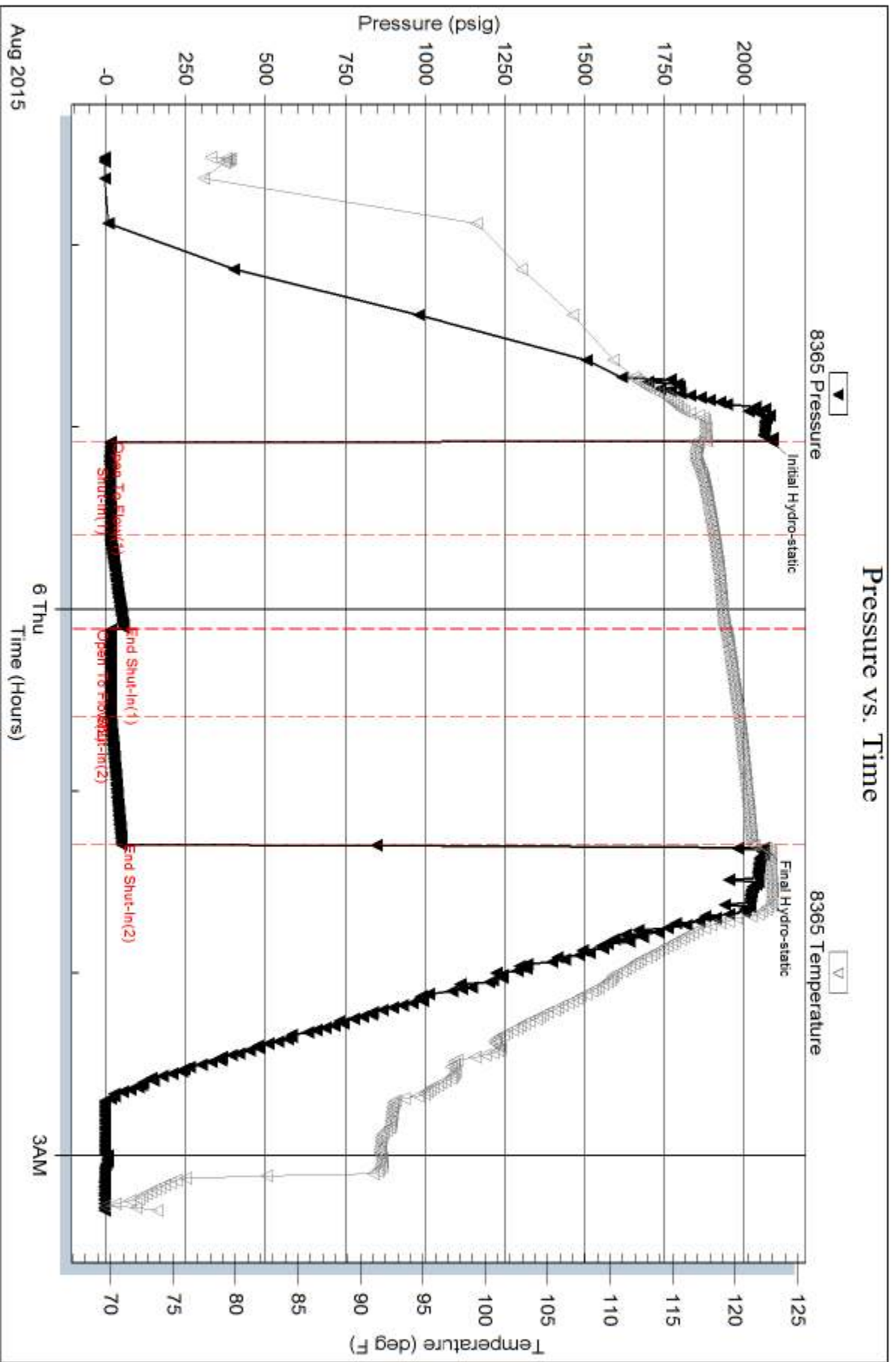
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

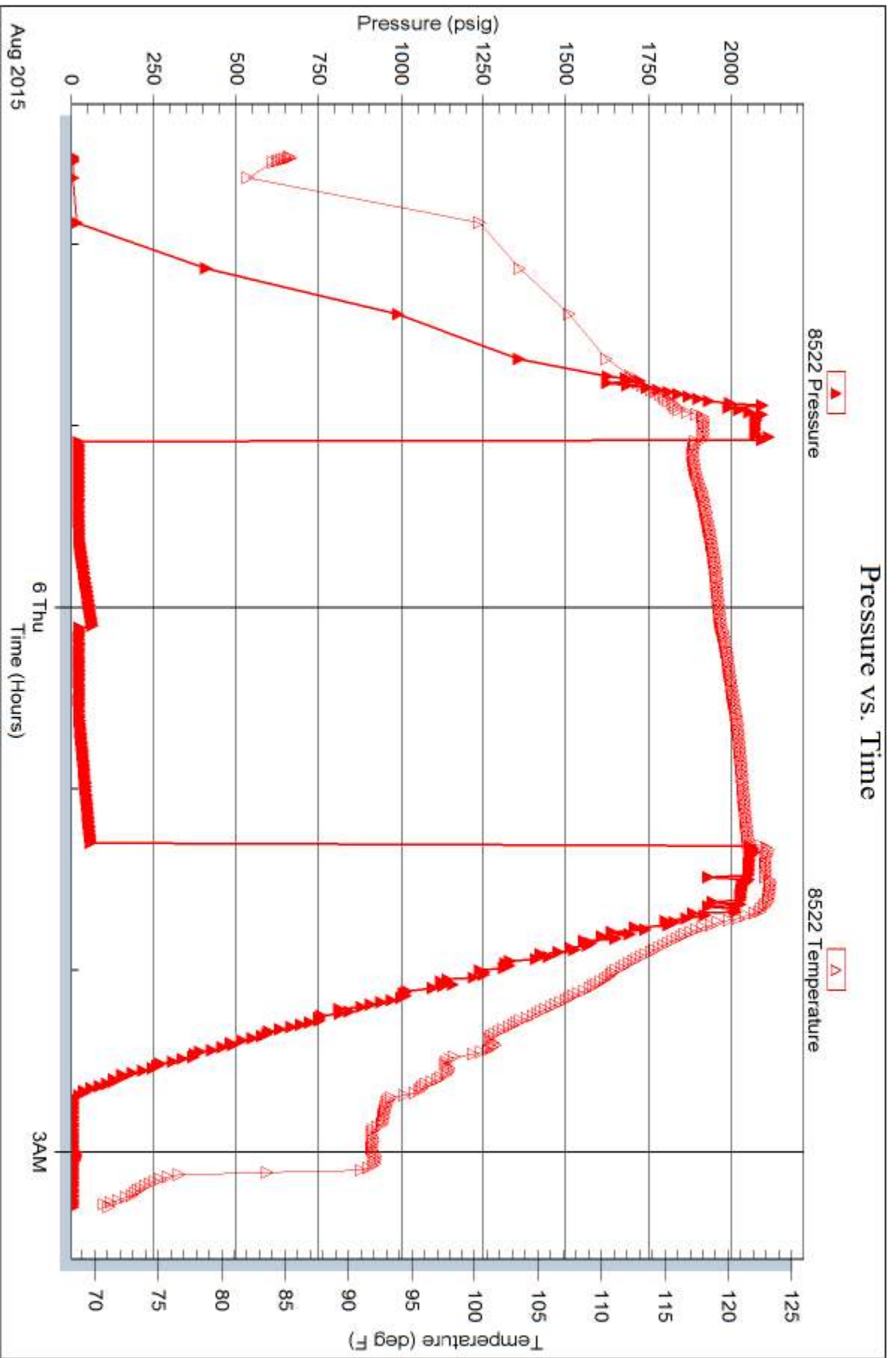


Serial #: 8522

Outside K3 Oil & Gas Operating Co

Eaton #3-18

DST Test Number: 6





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 61827

Well Name & No. Eaton #3-18 Test No. 1 Date 2/02/2015  
 Company K3 Oil & Gas Operating Co Elevation 2657 KB 2648 GL  
 Address 211 Highland Cross Ste 205 Houston, Tx 77023  
 Co. Rep / Geo. Tom Williams Rig Duke 4  
 Location: Sec. 18 Twp. 16s Rge. 28w Co. Lanc State Ky

Interval Tested 3907-3926 Zone Tested Lkc 'F'  
 Anchor Length 19 Drill Pipe Run 3903 Mud Wt. 9.1  
 Top Packer Depth 3902 Drill Collars Run 0 Vis 54  
 Bottom Packer Depth 3907 Wt. Pipe Run 0 WL 7.8  
 Total Depth 3926 Chlorides 2600 ppm System LCM 2#  
 Blow Description IF: BOB @ 4 min  
ISI: 4" return.  
FF: BOB @ 9 min.  
FSI: 5" return.

Rec	Feet of	%gas	%oil	%water	%mud
190	60	15	85		
60	60 mco	5	45	10	20
	370' BIP				

Rec Total 250 BHT 123 Gravity 37 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1916</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>2245 08/01</u>
(B) First Initial Flow <u>33</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2327</u>
(C) First Final Flow <u>61</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0144</u>
(D) Initial Shut-In <u>809</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>0444</u>
(E) Second Initial Flow <u>71</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0716</u>
(F) Second Final Flow <u>104</u>	<input checked="" type="checkbox"/> Mileage <u>76kr</u>	Comments
(G) Final Shut-In <u>719</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1878</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1451</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1451</u>	

Approved By \_\_\_\_\_ Our Representative [Signature]

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. 61808

Well Name & No. Eaton #3-18 Test No. 2 Date 8/03/2015  
 Company K3 Oil & Gas Operating Co Elevation 2657 KB 2648 GL  
 Address 211 Highland Cross Ste 205 Houston Tx 77073  
 Co. Rep / Geo. Tom Williams Rig Duke #4  
 Location: Sec. 18 Twp. 16S Rge. 28 W Co. Lane State Ks

Interval Tested 3988 - 4016 Zone Tested LKC - H'  
 Anchor Length 28' Drill Pipe Run 3966 Mud Wt. 9.1  
 Top Packer Depth 3983 Drill Collars Run 0 Vis 60  
 Bottom Packer Depth 3988 Wt. Pipe Run 0 WL 7.8  
 Total Depth 4016 Chlorides 2700 ppm System LCM 2#

Blow Description IF : BOB @ 2 1/2 min.  
5F : 1" return  
FF : BOB @ 2 min.  
FSI : 9" return

Rec	Feet of	%gas	%oil	%water	%mud
320	60	30	70		
70	6 mcd	30	40		30
	600' GIP				

Rec Total 410 BHT 126 Gravity 34 API RW - @ - F Chlorides - ppm

(A) Initial Hydrostatic <u>1935</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2315</u>
(B) First Initial Flow <u>38</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2326</u>
(C) First Final Flow <u>57</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0055</u>
(D) Initial Shut-In <u>1072</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>0245</u>
(E) Second Initial Flow <u>71</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0525</u>
(F) Second Final Flow <u>165</u>	<input checked="" type="checkbox"/> Mileage <u>76 RT</u>	Comments
(G) Final Shut-In <u>1012</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1904</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>9</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>15</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1551</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1551</u>	

Approved By \_\_\_\_\_ Our Representative

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. 61809

Well Name & No. Faton #3-18 Test No. 3 Date 8/03/2015  
 Company K3 Oil & Gas Operations Co. Elevation 2657 KB 2648 GL  
 Address 211 Highland Cross Ste 205 Houston Tx 77073  
 Co. Rep / Geo. Tom Williams Rig Duke 4  
 Location: Sec. 18 Twp. 16S Rge. 28 W Co. Lane State Ks

Interval Tested 4050 - 4075 Zone Tested LKC J  
 Anchor Length 25 Drill Pipe Run 4028 Mud Wt. 9.0  
 Top Packer Depth 4045 Drill Collars Run 0 Vis 56  
 Bottom Packer Depth 4050 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4075 Chlorides 3200 ppm System LCM 2#  
 Blow Description IF ! Surface blow  
ISI ! No return  
PF ! No blow  
FST ! No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MUD Core S&amp;S</u>			<u>100</u>	

Rec Total 5 BHT 119 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1969</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1500</u>
(B) First Initial Flow <u>14</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1515</u>
(C) First Final Flow <u>15</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1642</u>
(D) Initial Shut-In <u>108</u>	<input checked="" type="checkbox"/> Circ Sub <u>14</u>	T-Pulled <u>1842</u>
(E) Second Initial Flow <u>15</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2008</u>
(F) Second Final Flow <u>16</u>	<input checked="" type="checkbox"/> Mileage <u>26 RT</u>	Comments
(G) Final Shut-In <u>71</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1947</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1551</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1551</u>	

Approved By \_\_\_\_\_ Our Representative [Signature]  
 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. 61810

Well Name & No. Eaton #3-18 Test No. 4 Date 8/04/2015  
 Company K3 Oil & Gas Operating Co Elevation 2657 KB 2648 GL  
 Address 211 Highland Cross Ste 205 Houston, Tx 77073  
 Co. Rep / Geo. Tom Williams Rig Duke #4  
 Location: Sec. 18 Twp. 16S Rge. 28W Co. Lane State Ks

Interval Tested 4050 - 4610 Zone Tested LKC - K  
 Anchor Length 30 Drill Pipe Run 4050 Mud Wt. 9.1  
 Top Packer Depth 4065 Drill Collars Run 0 Vis 60  
 Bottom Packer Depth 4070 Wt. Pipe Run 0 WL 60  
 Total Depth 4610 Chlorides 3200 ppm System LCM 2#

Blow Description IF: 3" blow.  
ISI: No return.  
FF: 4" blow  
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>OCM</u>		<u>30</u>		<u>70</u>
	<u>90' GIP</u>				

Rec Total 30 BHT 119 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>1975</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0400</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0420</u>
(C) First Final Flow <u>16</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0649</u>
(D) Initial Shut-In <u>736</u>	<input checked="" type="checkbox"/> Circ Sub <u>NA</u>	T-Pulled <u>0949</u>
(E) Second Initial Flow <u>36</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1128</u>
(F) Second Final Flow <u>23</u>	<input checked="" type="checkbox"/> Mileage <u>76RT</u>	Comments
(G) Final Shut-In <u>706</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1944</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1551</u>
	Sub Total <u>1551</u>	MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative [Signature]  
 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. 61811

Well Name & No. Eaton #3-18 Test No. 5 Date 8/05/2015  
 Company K3 Oil & Gas Operating Co Elevation 2657 KB 2648 GL  
 Address 211 Highland Cross Ste 205 Houston, Tx 77073  
 Co. Rep / Geo. Tom Williams Rig Dike 4  
 Location: Sec. 18 Twp. 16s Rge. 28w Co. Lane State Ks

Interval Tested 2652 4146-4184 Zone Tested Marmaton-Lenapah  
 Anchor Length 38 Drill Pipe Run 4125 Mud Wt. 9.0  
 Top Packer Depth 4141 Drill Collars Run 0 Vis 56  
 Bottom Packer Depth 4146 Wt. Pipe Run 0 WL 8.4  
 Total Depth 4184 Chlorides 2800 ppm System LCM 1#

Blow Description IR 3 1/2" blow  
ISI No return  
FF 5" blow  
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>0cm</u>	<u>25</u>		<u>75</u>	
	<u>No gas detected</u>				

Rec Total 30 BHT 121 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2011  Test 1150 T-On Location 2200  
 (B) First Initial Flow 16  Jars 250 T-Started 2220  
 (C) First Final Flow 16  Safety Joint 75 T-Open 0031  
 (D) Initial Shut-In 897  Circ Sub N/L T-Pulled 0351  
 (E) Second Initial Flow 16  Hourly Standby \_\_\_\_\_ T-Out 0541  
 (F) Second Final Flow 21  Mileage 76 RT Comments \_\_\_\_\_  
 (G) Final Shut-In 787  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1987  Straddle \_\_\_\_\_

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  
 Initial Shut-In 60  
 Final Flow 30  
 Final Shut-In 60  
 Sub Total 0  
 Total 1551  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1551

Approved By \_\_\_\_\_ Our Representative [Signature]

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. 61812

Well Name & No. Eaton #3-18 Test No. 6 Date 8/06/2015  
 Company K3 Oil & Gas Operating Co Elevation 2657 KB 2648 GL  
 Address 24 Highland Cross Ste 205 Houston, Tx 77073  
 Co. Rep / Geo. Tom Williams Rig Duke #4  
 Location: Sec. 18 Twp. 16S Rge. 28W Co. Lane State Ks

Interval Tested 4312 4350 Zone Tested Ft. Scott  
 Anchor Length 38 Drill Pipe Run 4312 Mud Wt. 9.0  
 Top Packer Depth 4308 Drill Collars Run 0 Vis 52  
 Bottom Packer Depth 4312 Wt. Pipe Run 0 WL 9.6  
 Total Depth 4350 Chlorides 4100 ppm System LCM 1#

Blow Description JF Weat surface blow.  
ISF No return.  
FF No blow  
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MUD (OIL SPOTS)</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 121 Gravity — API RW — @ — °F Chlorides 2100 ppm

(A) Initial Hydrostatic 2087  Test 1150 T-On Location 2100  
 (B) First Initial Flow 15  Jars 250 T-Started 2131  
 (C) First Final Flow 15  Safety Joint 75 T-Open 2306 8/05  
 (D) Initial Shut-In 54  Circ Sub 4/c T-Pulled 0106  
 (E) Second Initial Flow 15  Hourly Standby \_\_\_\_\_ T-Out 0318  
 (F) Second Final Flow 15  Mileage 76 RT Comments \_\_\_\_\_  
 (G) Final Shut-In 50  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2064  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_  
 Initial Shut-In 30  Day Standby \_\_\_\_\_  
 Final Flow 30  Accessibility \_\_\_\_\_  
 Final Shut-In 30  Sub Total 1551 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative

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.