

Schlumberger

Company: Nemaha Oil & Gas, LLC

Well: Stelbar 1A-21-32-9H

Field: Wildcat

County: Chautauqua

State: Kansas

**HOLE AND CEMENT VOLUME
MAX TEMP 86.6 DEG F
FUTURE CASING = 4.5"**

County: Chautauqua
Field: Wildcat
Location: 165' FNL & 1500' FEL
Well: Stelbar 1A-21-32-9H
Company: Nemaha Oil & Gas, LLC

LOCATION		165' FNL & 1500' FEL		Elev.: K.B. 1172.83 ft
				G.L. 1162.00 ft
				D.F. 1170.83 ft
Permanent Datum:	GROUND LEVEL	Elev.:	1162.00 ft	
Log Measured From:	KELLY BUSHING	10.83 ft	above Perm. Datum	
Drilling Measured From:	KELLY BUSHING			
API Serial No.	Section	Township	Range	
15-019-37155	21	32S	9E	

Logging Date: 11-Feb-2012

Run Number: ONE

Depth Driller: 4717 ft

Schlumberger Depth: 4105 ft

Bottom Log Interval: 4105 ft

Top Log Interval: 2524 ft

Casing Driller Size @ Depth: 7.000 in @ 2524 ft

Casing Schlumberger: 2524 ft

Bit Size: 6.125 in

Type Fluid In Hole: Fresh WBM

Density: 8.3 lbm/gal

Viscosity: 28 s

Fluid Loss: PH 7.5

Source Of Sample: Active Tank

RM @ Measured Temperature: 1.005 ohm.m @ 44 degF

RMF @ Measured Temperature: 0.854 ohm.m @ 44 degF

RMC @ Measured Temperature: 1.407 ohm.m @ 44 degF

Source RMF: Calculated

RM @ MRT: 0.546 @ 87

Maximum Recorded Temperatures: 87 degF

Circulation Stopped: 10-Feb-2012 10:30

Logger On Bottom: 11-Feb-2012 8:57

Unit Number: 2281 Elk City, OK

Recorded By: Matt Reiter / Airona Ndiaye

Witnessed By: Louie Lohrer

Logging Date	Run 1	Run 2	Run
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth			
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
Density			
Viscosity			
Fluid Loss			
PH			
Source Of Sample			
RM @ Measured Temperature			
RMF @ Measured Temperature			
RMC @ Measured Temperature			
Source RMF			
RM @ MRT			
Maximum Recorded Temperatures			
Circulation Stopped			
Logger On Bottom			
Unit Number			
Location			
Recorded By			
Witnessed By			

Logging Date	Run 1	Run 2	Run
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth			
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
Density			
Viscosity			
Fluid Loss			
PH			
Source Of Sample			
RM @ Measured Temperature			
RMF @ Measured Temperature			
RMC @ Measured Temperature			
Source RMF			
RM @ MRT			
Maximum Recorded Temperatures			
Circulation Stopped			
Logger On Bottom			
Unit Number			
Location			
Recorded By			
Witnessed By			

DEPTH SUMMARY LISTING

Date Created: 11-FEB-2012 10:38:07

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-B Serial Number: 6639 Calibration Date: 3-NOV-2011 Calibrator Serial Number: 33 Calibration Cable Type: 7-46A XS Wheel Correction 1: -5 Wheel Correction 2: -5	Type: CMTD-B/A Serial Number: 2773 Calibration Date: 26-JAN-2011 Calibrator Serial Number: 1018 Number of Calibration Points: 10 Calibration RMS: 10 Calibration Peak Error: 16	Type: 7-46A XS Serial Number: 711056 Length: 24000 FT Conveyance Method: Wireline Rig Type: LAND

Depth Control Parameters

Log Sequence: First Log In the Well
Rig Up Length At Surface: 200.00 FT
Rig Up Length At Bottom: 200.00 FT
Rig Up Length Correction: 0.00 FT
Stretch Correction:
Tool Zero Check At Surface: 0.20 FT

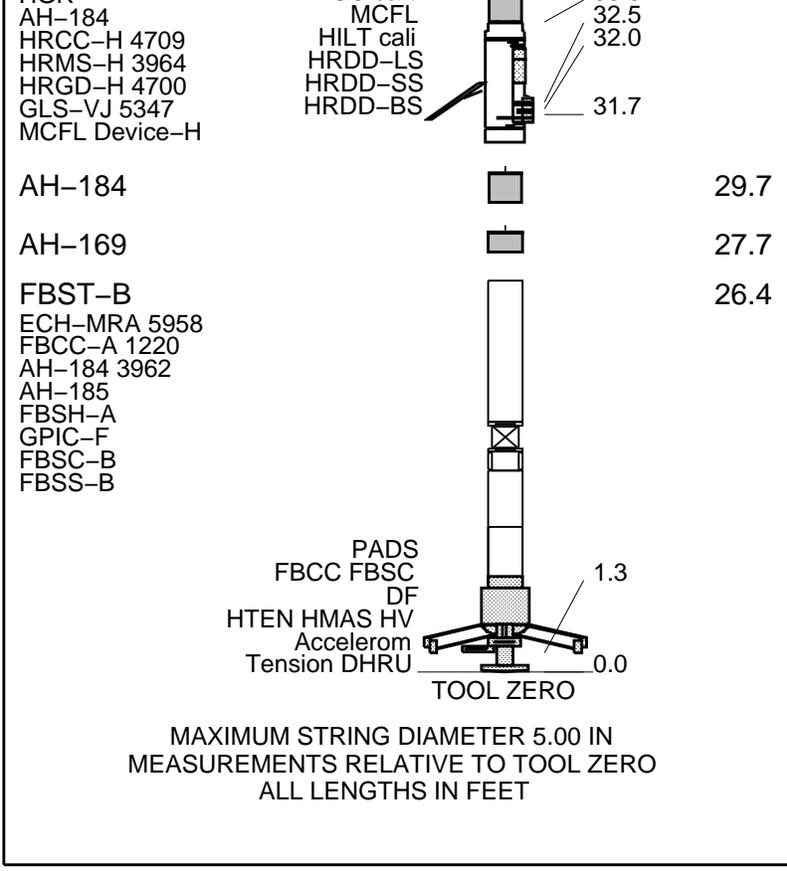
Depth Control Remarks

<ol style="list-style-type: none"> 1. All Schlumberger Depth Control Policies Were Followed 2. IDW used as primary depth control 3. Z Chart used as secondary depth control 4. Log correlated to MWD gamma ray 5. 6.
--

DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1 OS1: FMI OS2: OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
REMARKS: RUN NUMBER 1 Toolstring ran as per toolsketch All presentations are as per client's request Main Pass logged from TDL to CSG Maximum recorded temperature is 86.6 degF, obtained from HGNS Hole cement volume computed given a future casing diameter od 4.5 inches. Logged in Limestone Matrix (MDEN = 2.71 g/cc) Your crew today: Matt, Arona, Steve, Nickv, Grant, Justin and Joe.	REMARKS: RUN NUMBER 2



Input DLIS Files

DEFAULT	FMI_TLD_MCFL_CNL_027LUP	FN:30	PRODUCER	11-Feb-2012 08:57	4122.0 FT	2102.5 FT
---------	-------------------------	-------	----------	-------------------	-----------	-----------

Output DLIS Files

DEFAULT	FMI_TLD_MCFL_CNL_030PUP	FN:35	PRODUCER	11-Feb-2012 10:29	4126.0 FT	2106.5 FT
RTB	FMI_TLD_MCFL_CNL_030PUP	FN:36	PRODUCER	11-Feb-2012 10:25	4126.0 FT	2106.5 FT

Integrated Hole/Cement Volume Summary

Hole Volume = 322.34 F3
 Cement Volume = 147.67 F3 (assuming 4.50 IN casing O.D.)
 Computed from 4105.0 FT to 2524.0 FT using data channel(s) C1 C2

OP System Version: 19C0-187

eWAFE Version: 1.176

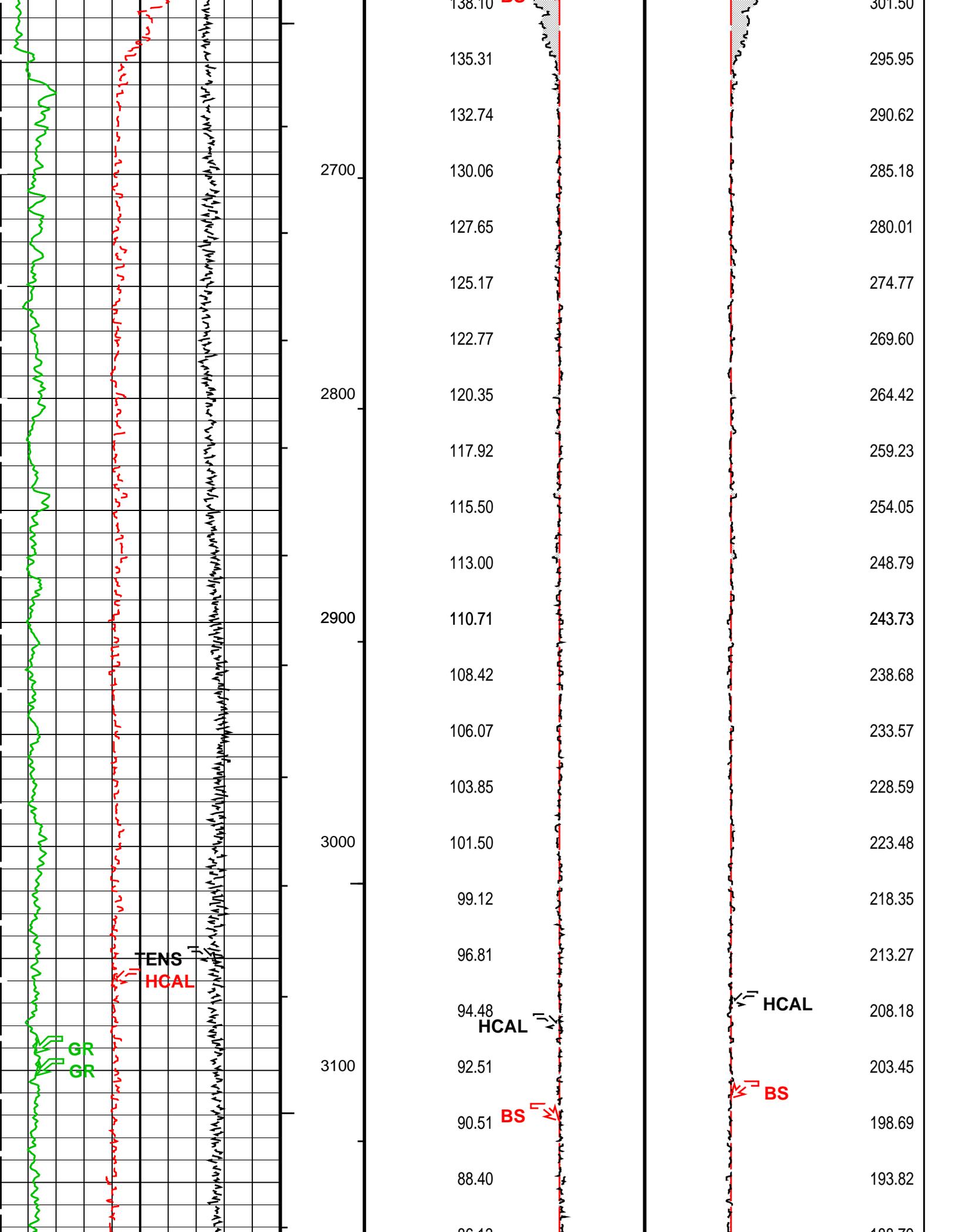
FBST-B	SRPC-5047-H1-2011-OP1	HILTH-FTB	SRPC-5047-H1-2011-OP1
DTC-H	19C0-187		

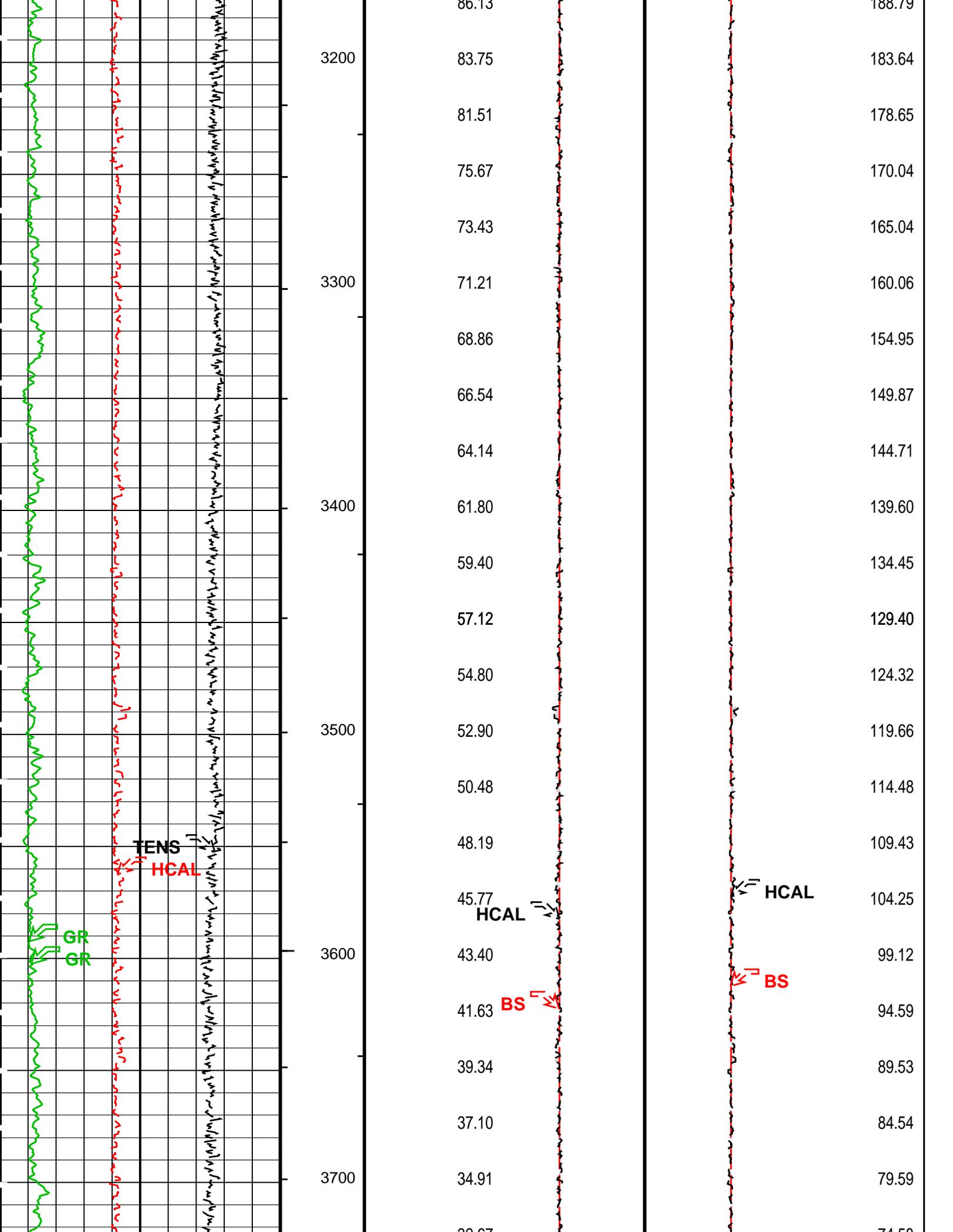
PIP SUMMARY

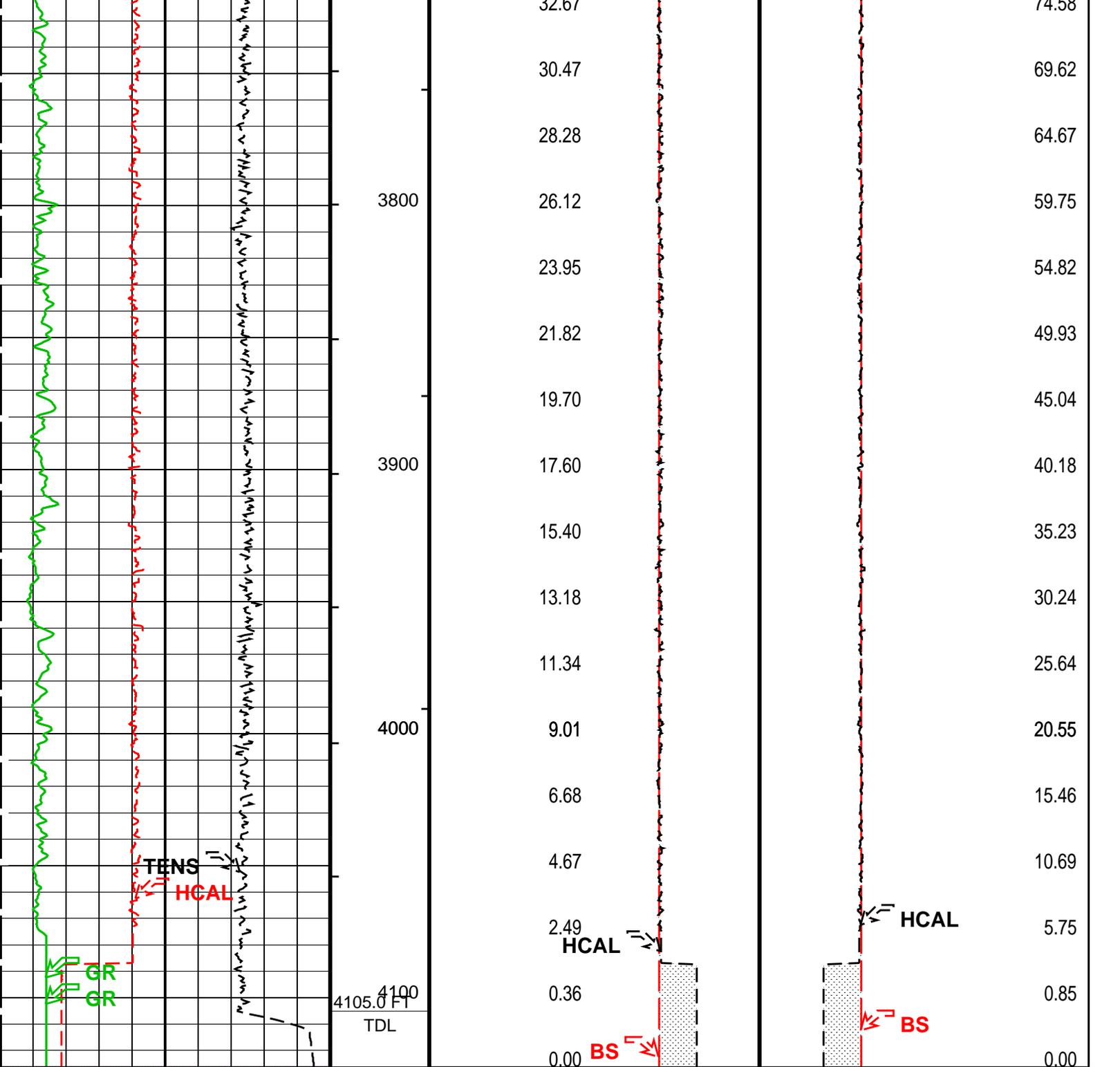
- └ Integrated Hole Volume Minor Pip Every 10 F3
- └ Integrated Hole Volume Major Pip Every 100 F3
 - └ Integrated Cement Volume Minor Pip Every 10 F3
 - └ Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S

Tension (TENS) (LBF)	0	Washout		INTEGRATED HOLE VOLUME (IHV) (----
HILT Caliper (HCAL) (IN)	12	INTEGRATED CEMENT VOLUME (ICV) (----	Mudcake From HCAL_1 to BS_1	
Gamma Ray (GR) (GAPI)	300	Mudcake From BS to HCAL		Washout
Gamma Ray (GR) (GAPI)	150	HILT Caliper (HCAL)	HILT Caliper (HCAL)	







Gamma Ray Back-Up		Bit Size (BS) (IN)		0 0		Bit Size (BS) (IN)		20	
Gamma Ray (GR) (GAPI)		HILT Caliper (HCAL) (IN)		0 0		HILT Caliper (HCAL) (IN)		20	
Gamma Ray (GR) (GAPI)		Mudcake From BS to HCAL				Washout			
HILT Caliper (HCAL) (IN)		INTEGRATED CEMENT VOLUME (ICV) (----				Mudcake From HCAL_1 to BS_1			
Tension (TENS) (LBF)		Washout				INTEGRATED HOLE VOLUME (IHV) (----			

PIP SUMMARY

Integrated Hole Volume Minor Pip Every 10 F3
 Integrated Hole Volume Minor Pip Every 10 F3

- └ Integrated Hole Volume Major Pip Every 100 F3
 - └ Integrated Cement Volume Minor Pip Every 10 F3
 - └ Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S

Format: D_HOLECONDITION

Vertical Scale: 2" per 100'

Graphics File Created: 11-Feb-2012 10:29

OP System Version: 19C0-187

eWAFE Version: 1.176

FBST-B	SRPC-5047-H1-2011-OP1!	HILTH-FTB	SRPC-5047-H1-2011-OP1!
DTC-H	19C0-187		

Input DLIS Files

DEFAULT	FMI_TLD_MCFL_CNL_027LUP	FN:30	PRODUCER	11-Feb-2012 08:57	4122.0 FT	2102.5 FT
---------	-------------------------	-------	----------	-------------------	-----------	-----------

Output DLIS Files

DEFAULT	FMI_TLD_MCFL_CNL_030PUP	FN:35	PRODUCER	11-Feb-2012 10:29
RTB	FMI_TLD_MCFL_CNL_030PUP	FN:36	PRODUCER	11-Feb-2012 10:25

Company: **Nemaha Oil & Gas, LLC**

Schlumberger

Well: **Stelbar 1A-21-32-9H**

Field: **Wildcat**

County: **Chautauqua**

State: **Kansas**

HOLE AND CEMENT VOLUME
 MAX TEMP 86.6 DEG F
 FUTURE CASING = 4.5"