HALLIBURTON

CIRCUMFERENTIAL ACOUSTIC SCANNING TOOL - MONOCABLE

Company WPX ENERGY
Well STRAIT SG 342-22
Field GRAND VALLEY
County GARFIELD State CO

Company	WPX ENERGY		
Well	STRAIT SG 342-22		
Field	GRAND VALLEY		
County	GARFIELD	State	CO
API No.:	05-045-21752-0000	Serv #:	900616174
Location:	SURFACE HOLE LOCATION: 1519' FNL & 0289' FEL BOTTOM HOLE LOCATION: 1948' FNL & 1091' FEL	Other Services	CBL GAUGE RING
Sec: 22 Twp: 07S Rge: 96W			

Permanent Datum	GROUND LEVEL	Elevation	5222'	Elevation
Log Measured From	KB	22 Ft. above perm. datum		K.B. 5242' D.F. 5241' G.L. 5222'
Drilling Measured From	KB			

Date @ Time Logged	28 JULY 2013	Type Fluid in Hole	WATER
Run No.	ONE	Density of Fluid	8.4#
Depth - Driller	5567'	Fluid Level	70'
Depth - Logger	5504'	Cement Top Est. Logged	SEE LOG
Bottom - Logged Interval	5504'	Equipment / Location	10971668 / G.J.
Top - Log Interval	SURFACE	Recorded by	D. SOLIS
Max. Recorded Temp.	187 DEG F	Witnessed by	A. DUNIHOO

CEMENTING DATA	Surface	Protection	Production	Liner
	String	String	String	
Date / Time Cemented	N/A	N/A	N/A	N/A
Primary / Squeeze				
Expected Compressive Strength	psi@ hrs	psi@ hrs	psi@ hrs	psi@ hrs
Cement Volume	/	/	/	/
Cement Type / Weight	/	/	/	/
Formulation	/	/	/	/
Mud Type / Mud Wgt.	/	/	/	/

Borehole Record			Casing & Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	13.5"	SURFACE	897'	9.625"	32.3#	SURFACE	897'
TWO	8.75"	841'	5567'	4.5"	11.6#	SURFACE	5567'

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HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

Comments

CORRELATED ON BOTTOM TO BAKER RPM LOG DATED: 27 JULY 2013.

GR-CBL-CAST RAN IN COMBINATION.

CAST RAN AS FOLLOWS: 3.125" HEAD, BLACK TRANSDUCER, CIM MODE, 60 SHOTS, 4 SCANS

THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES.

Service Ticket No.	900616174	API No.	05-045-21752-0000	PGM Ver	12.7.23001_R2

The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client

EQUIPMENT DATA

TELEMETRY		CEMENT BOND TOOL		CAST INSTRUMENT		CAST MANDREL	
Run No.	ONE	Run No.	ONE	Run No.	ONE	Run No.	ONE
Serial No.	12105789	Serial No.	11858805	Serial No.	12030242	Serial No.	12030243
Model No.	TTTC-U-002	Model No.	CBL-M	Model No.	CAST-M	Model No.	CAST-M
Diameter	1.688"	Diameter	2.75"	Diameter	2.75"	Diameter	3.125"

LOGGING DATA

General Data

Pass	Depths		Well Head	Speed	Logging Run Comments
No.	From	To	Pressure	Ft/Min	
ONE	5504'	SURFACE	0	55	MAIN LOG SECTION

	GAMMA RAY		Z MUD		FLUID TRAVEL TIME		IMPEDANCE	
Pass	Scale		Scale		Scale		Scale	
No.	L	R	L	R	L	R	L	L
	0	200	10	0	220	170	0	6.15

DIRECTIONAL INFORMATION

Maximum Deviation	N/A	deg. @	N/A	KOP	N/A

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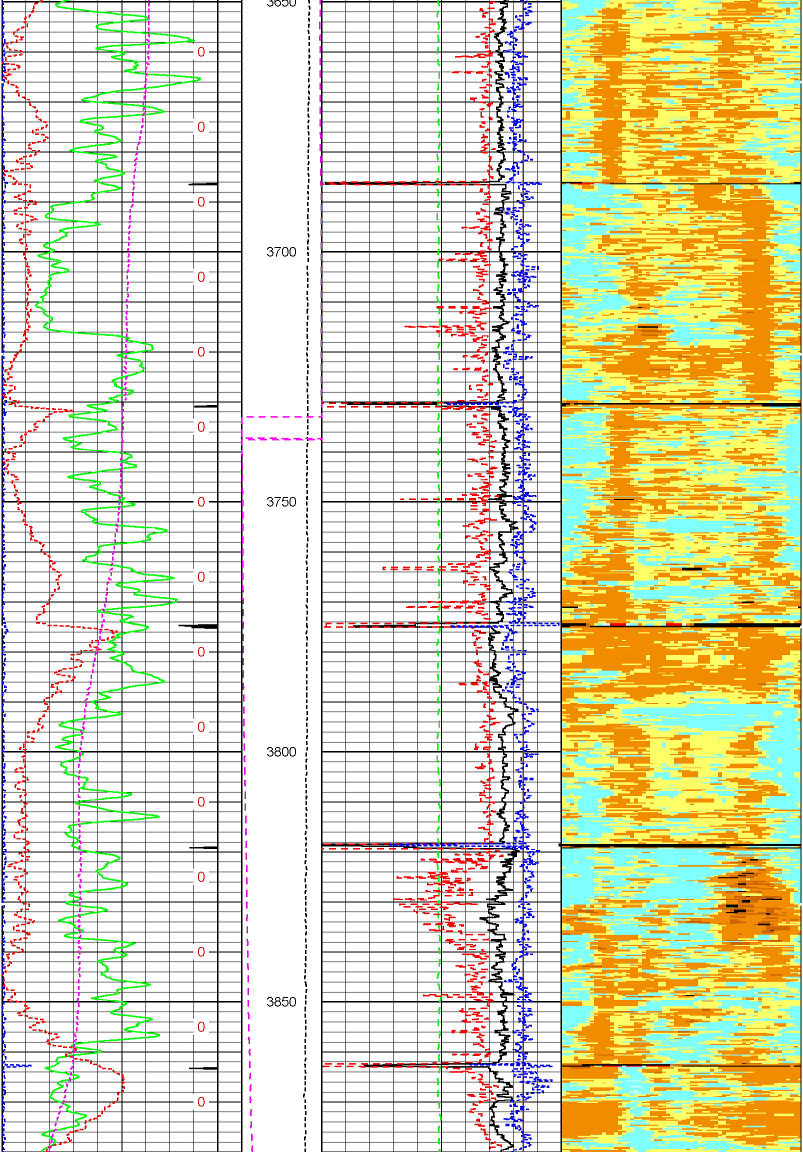
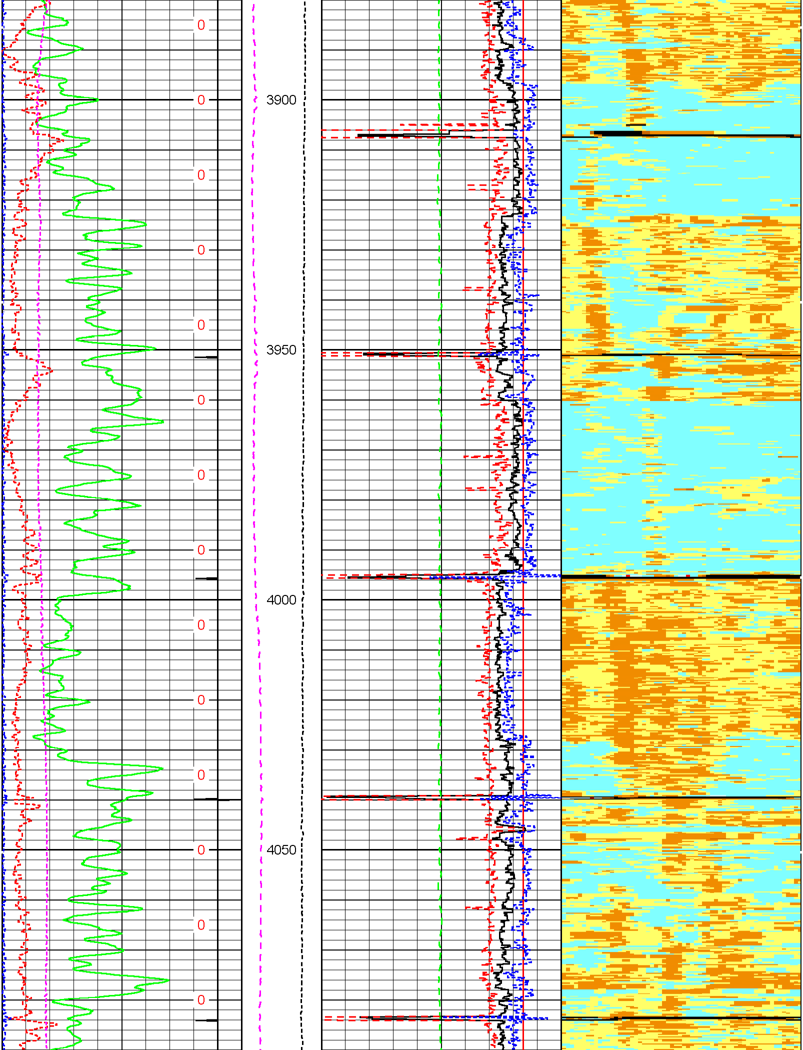
MAIN LOG SECTION

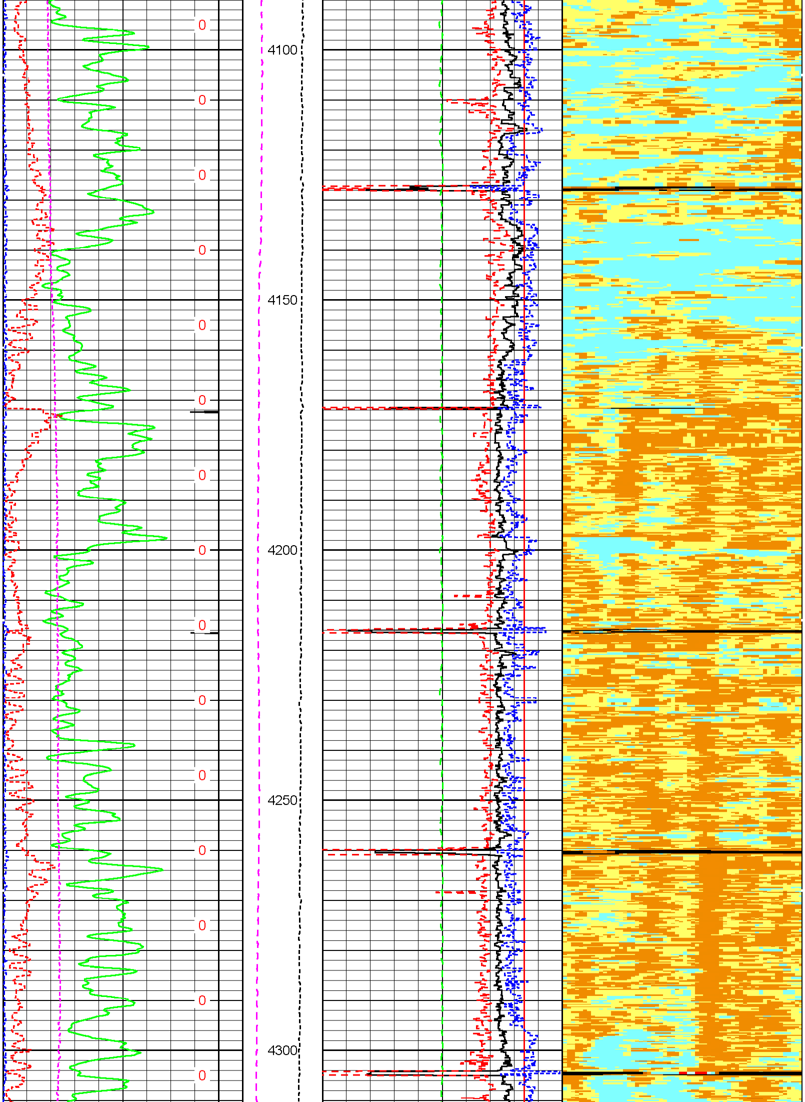
5" = 100'

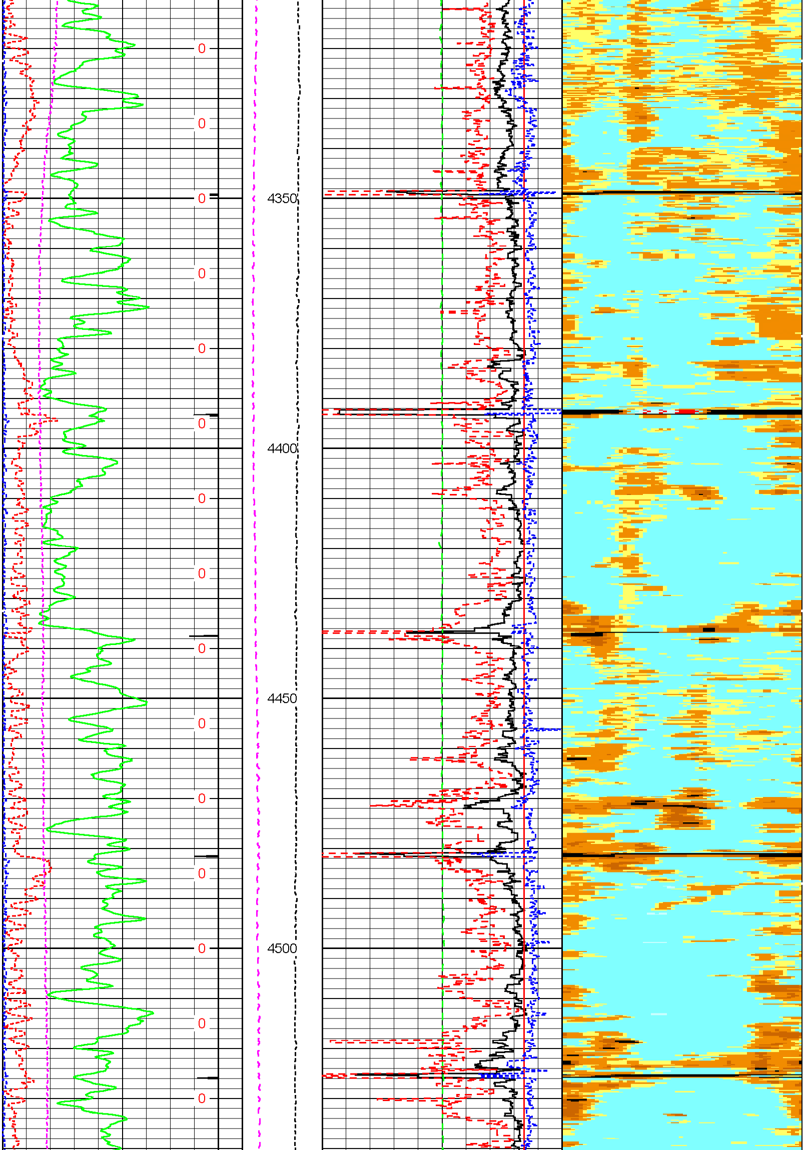
Database File: sg_342_22_cast.db
Dataset Pathname: MAIN2
Presentation Format: hcastcim
Dataset Creation: Sun Jul 28 16:17:15 2013 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

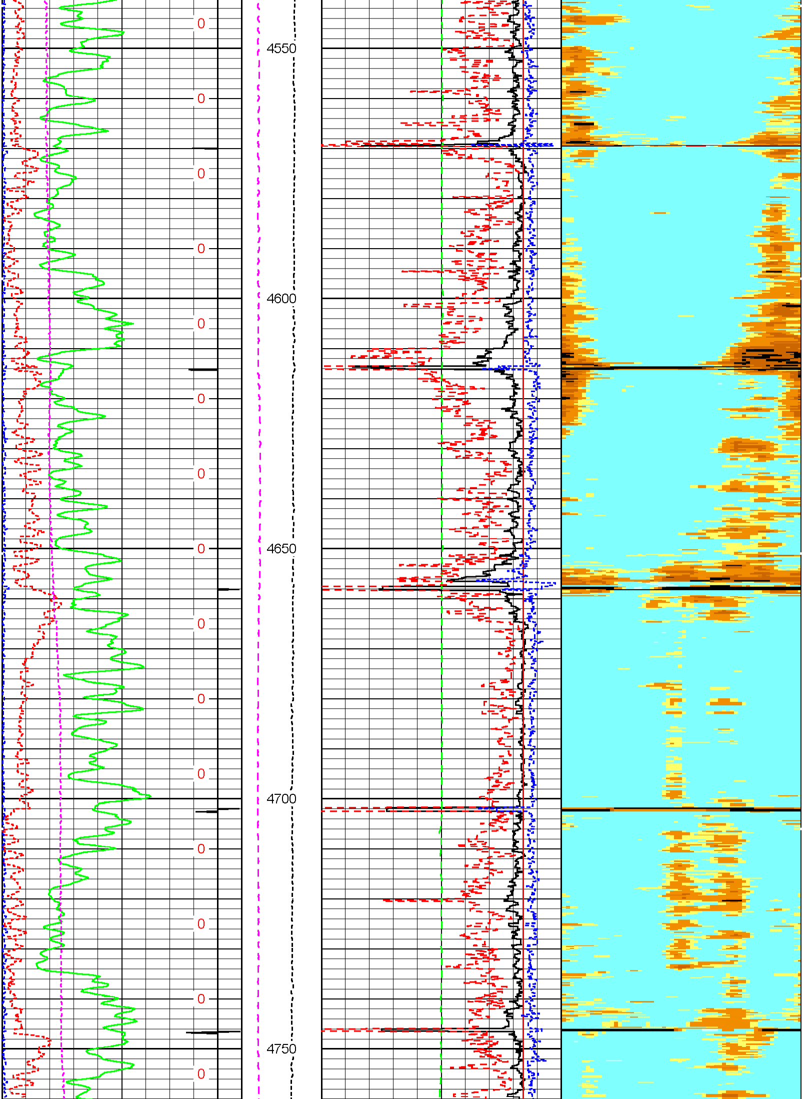
0	GR (GAPI)	200	LTEN	10	zc_av (MRayl)	0	0	Impedance	360
0	ecen (in)	0.25	1000lb) 0	220	Fluid Travel Time (usec/ft)	170	0		6.15
0	oval (in)	0.25	Rel Bearing	10	Z Mud (MRayl)	0			
-1	Instant Deviation (°)	9	-1 (°) 359	10	zc_max (MRayl)	0			
-540	CCL	60		10	zc_min (MRayl)	0			
	nbs								

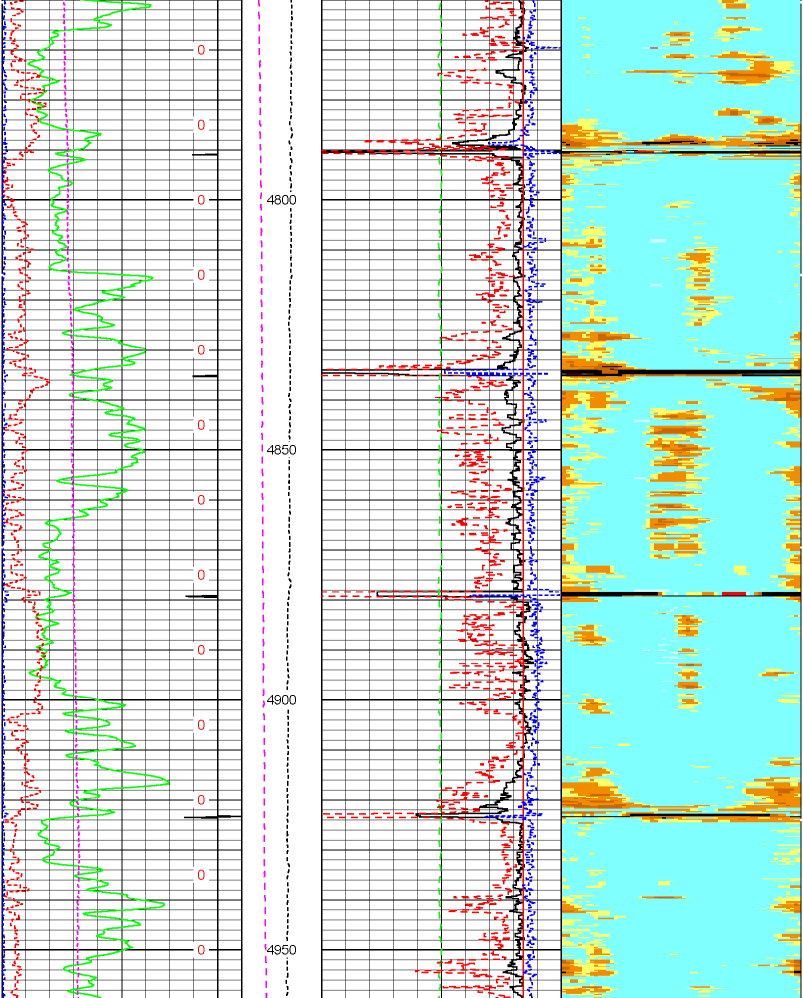


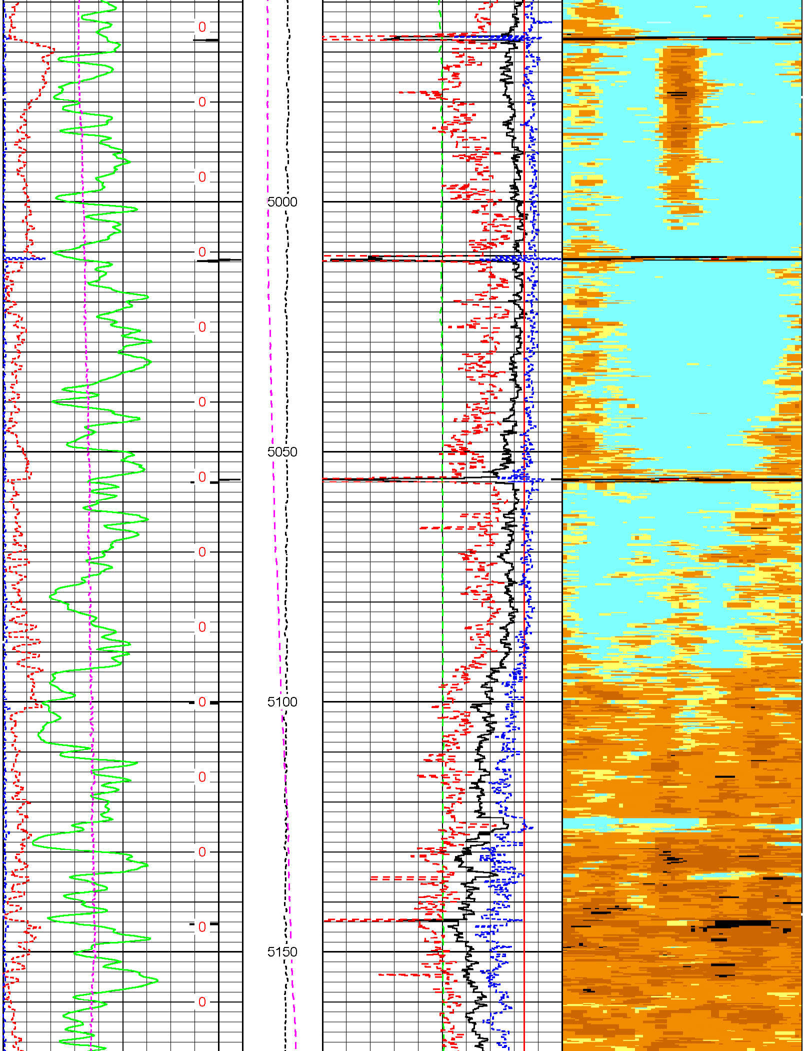


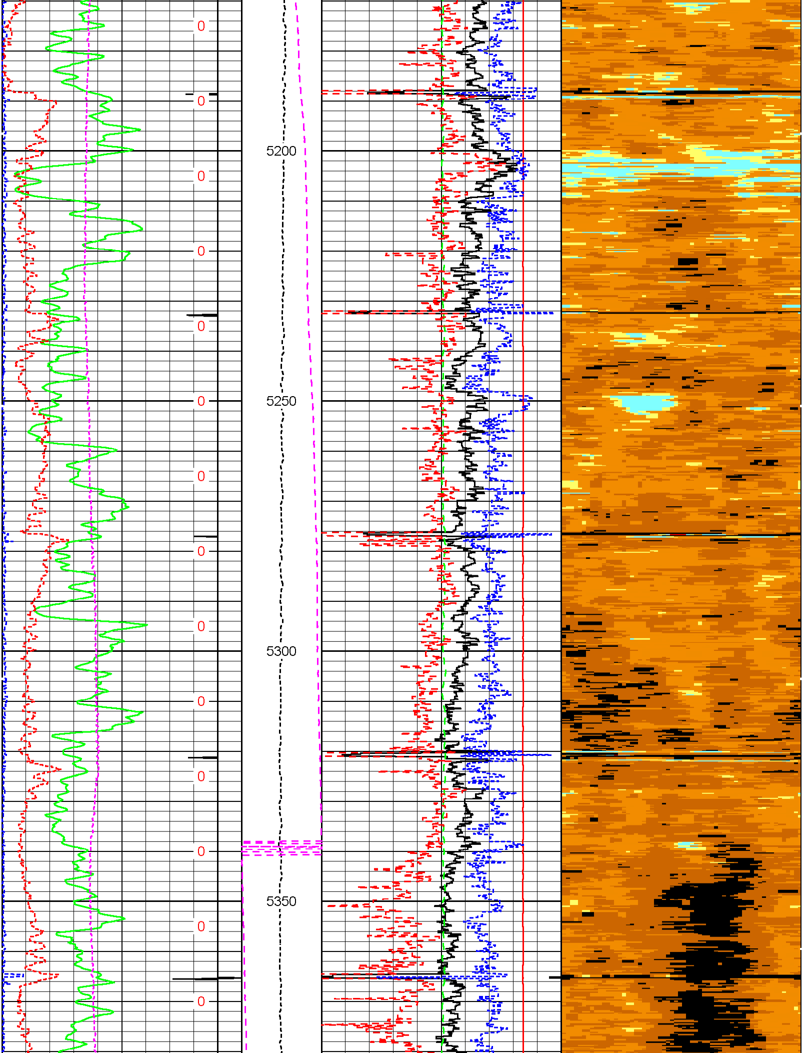


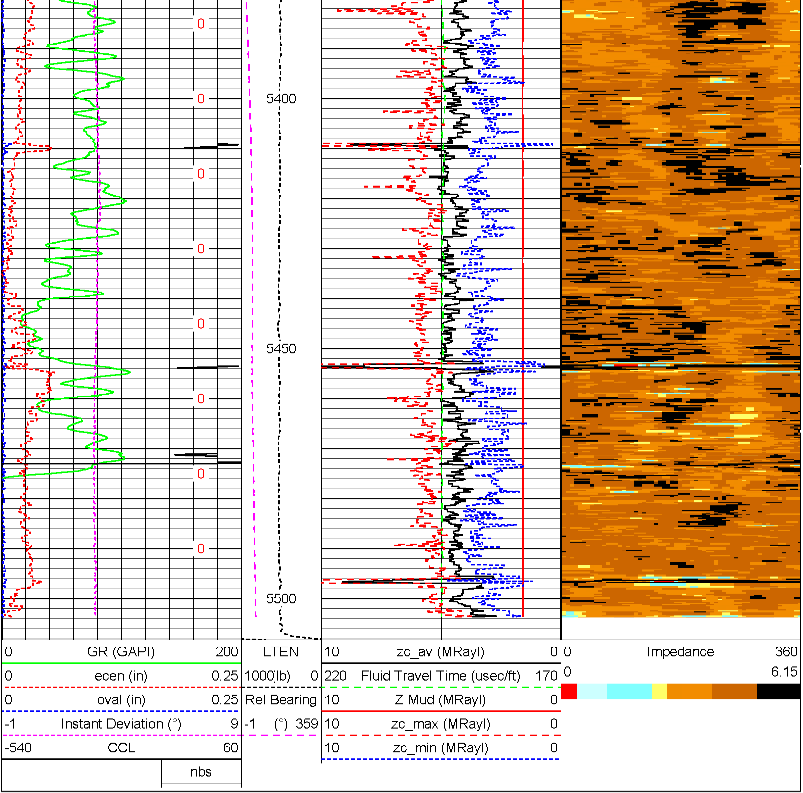












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MAIN LOG SECTION

5" = 100'

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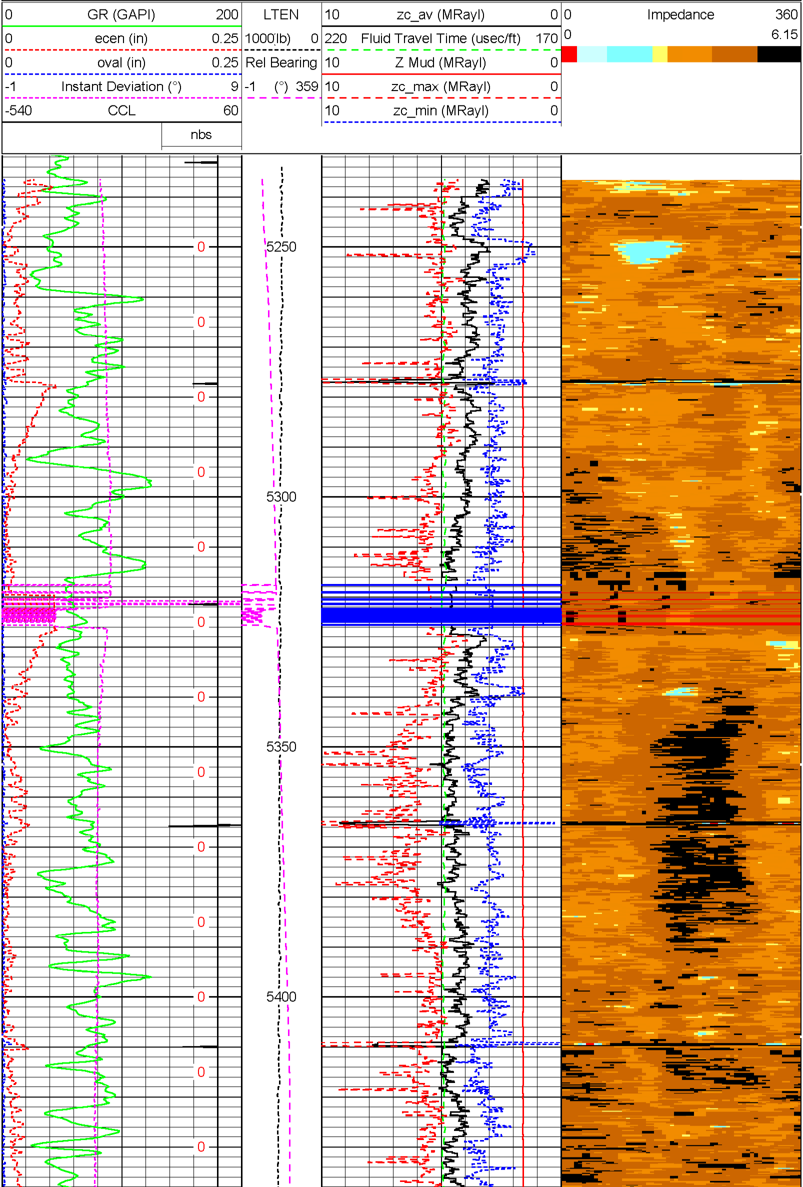
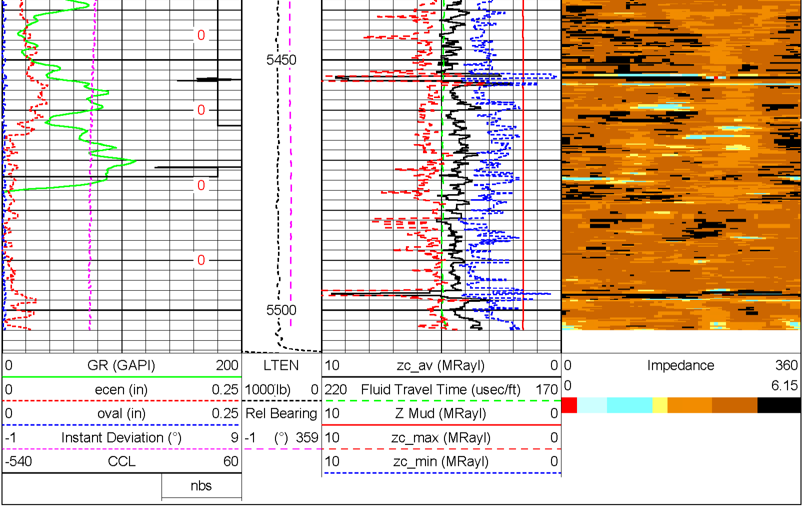
REPEAT LOG SECTION

5" = 100'

Database File: sg_342_22_cast.db
Dataset Pathname: RPT1
Presentation Format: hcastcim
Dataset Creation: Sun Jul 28 16:04:54 2013 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240





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REPEAT LOG SECTION

5" = 100'

Calibration Report

Database File: sg_342_22_cast.db
Dataset Pathname: MAIN2
Dataset Creation: Sun Jul 28 16:17:15 2013 by Log Halliburton Casedho

Circumferential Acoustic Scanning Tool Shop Calibration Report

Serial-Model: 318_243-3 1/8 SCAN

Calibration Performed: Sat Jul 27 21:02:02 2013

	Mudcell Transducer		Main Transducer		
	Measured	Expected	Measured	Expected	Units
W/O Calibrator	47.95	44.00	N/A	N/A	usec
W Calibrator	39.40	35.00	54.80	50.00	usec

Calibrated Offsets

Name	Value	Units
TCAL	4.8025	usec
MCAL	5.1878	usec

XY Accelerometers Calibration Report

Performed: Not Performed

	Low Read.	High Read.		Low Ref.	High Ref.	
X Accelerometer	0.000	1.000	gee	0.000	1.000	gee
Y Accelerometer	0.000	1.000	gee	0.000	1.000	gee

Cement Bond Log Shop Calibration Report

Serial-Model: 11858805-A

Calibration Performed: Thu Jul 11 14:45:21 2013

Free Pipe Calibration

	Measured	Units
TT	0.0	usec
Amplitude	572.6	mV
Log Base Line	7.8	mV

Calibration References and Gain

Name	Value	Units
Pipe O.D.	0.000	in
Pipe Weight	0.0	lb/ft
Pipe Ref. Amp.	62.2	mV
Amp. Gain	0.110	

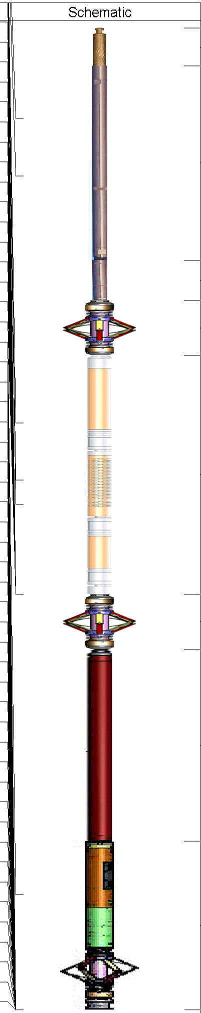
Gamma Ray Calibration Report

Type / Serial: 002 / 12105786

SHOP CALIBRATION	Sun Jul 28 15:04:21 2013				
	Counts/Sec.	Gain	Offset	Jig	Units
Background	26.5				cps
Calibrator	277.1				cps
		1.6277			GAPI/cps
PRIMARY VERIFICATION	Sun Jul 28 15:06:44 2013				
Background	47.0				cps
Calibrator	458.6				cps
Difference				411.6	GAPI
BEFORE SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI
AFTER SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Sensor	Offset (ft)
WVFSFT	16.37
CblTStat	16.37
CblSeqNum	16.37
CblITemp	16.37
CblIVolt	16.37
CblCStat	16.37
CblLWvCnt	16.37
CblAGate	16.37
CblTTThresh	16.37
CblBLine	16.37
CblCAmp	16.37
CblCCsgOD	16.37
CblCCsgWgt	16.37
CblCTT	16.37
TLINITCNT	16.37
TLINITCNT	16.37
MCWV	4.54
LLMTEN	0.00
UTCTIM	0.00
LOCTIM	0.00
SCAN	0.00
LWV	0.00
TStat	0.00
AccX1	0.00
AccY1	0.00
Ps0	0.00
PsP3	0.00
PsP5	0.00
PsM5	0.00
PsP15	0.00
PsM15	0.00
AccX2	0.00
AccY2	0.00
ITemp	0.00
MTemp	0.00
PsP400	0.00
MVolt	0.00
MCurr	0.00
MSpd	0.00
XHUERR1	0.00
XHUERR2	0.00
XHUTEMP	0.00
XHUSTAT	0.00
XHUCUR1	0.00
XHUCUR2	0.00
XHUCUR3	0.00
XHUCUR4	0.00
TSTAMP	0.00
ITEMPX	0.00
HVOLTX	0.00

Schematic



Description	Len (ft)	OD (in)	Wt (lb)
STND_CH 1.4375 IN CABLE HEAD	1.50	1.44	1.00
TTTCU-002 (12105786) Through Tubing Telemetry Cartridge - Ultrawire	7.66	1.69	37.00
XHU-003 (000001) Crossover Halliburton 1553 to Ultrawire	1.58	1.69	7.00
CASTM-CENT CAST M INLINE CENTRALIZER	2.16	3.13	25.00
HCBLM-A (11858805) Halliburton HCBLM Tool	9.38	2.75	116.00
CASTM-CENT CAST M INLINE CENTRALIZER	2.16	3.13	25.00
HAL-CAST-M-ELECT-CAST-M-Elect (12037.582) CAST M ELECTRONIC		2.75	30.00
HAL-CAST-M-3 1/8 SCAN (318_243) 3 1/8 SCAN CASTM	6.63	3.13	276.00

Dataset:	sg_342_22_cast.db: field/well/run1/MAIN2
Total Length:	38.66 ft
Total Weight:	517.00 lb
O.D.	3.13 in

Company	WPX ENERGY
Well	STRAIT SG 342-22
Field	GRAND VALLEY
County	GARFIELD
State	CO

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CIRCUMFERENTIAL
ACOUSTIC SCANNING
TOOL - MONOCABLE