MV Geophysical

X-Y CALIPER GAMMA RAY LOG

Company	Rowe Drilling Company
Well	MW-2
Field	Vero Beach
County	Indian River
State/Prv.	Florida

Location

INEOS BIO Facility
925 74th Avenue SW, Vero Beach, FL 32968
CH2M HILL, Inc.

Other Services

NONE

Permanent Datum	G.L.	Elevation	Elevation
Log Measured From	G.L.		K.B.
Drilling Measured From	G.L.		D.F.
			G.L.

Date	20-APR-2012	
Run Number	THREE	
Depth Driller	1395'	
Depth Logger	1397'	
Bottom Logged Interval	1395'	
Top Log Interval	SURFACE	
Open Hole Size	23"	
Type Fluid	H2O	
Density / Viscosity	NA/NA	
Max. Recorded Temp.	NA	
Estimated Cement Top	SURFACE	
Time Well Ready	ROA 4/20/2012	
Time Logger on Bottom	21:00 4/20/2012	
Equipment Number	MVGS-1	
Location	Ft. Myers	
Recorded By	S.Miller/C.Miller	
Witnessed By	Manny (RDC)	Al (RDC)

	Borehole Record			Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	29"	140'	507'				
TWO	23"	502'	1395'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	30"	0.375" WT	SURFACE	140'
Prot. String	24"	0.375" WT	SURFACE	502'
Production String				
Liner				
Invoice No.	2012073	5x/pdf/las	RFTDRM12.db	* FIELD PRINT *

Company Rowe Drilling Company
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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

MAXIMUM Caliper Arm Extensions: 51"

FUTURE CASING SIZE: 16"

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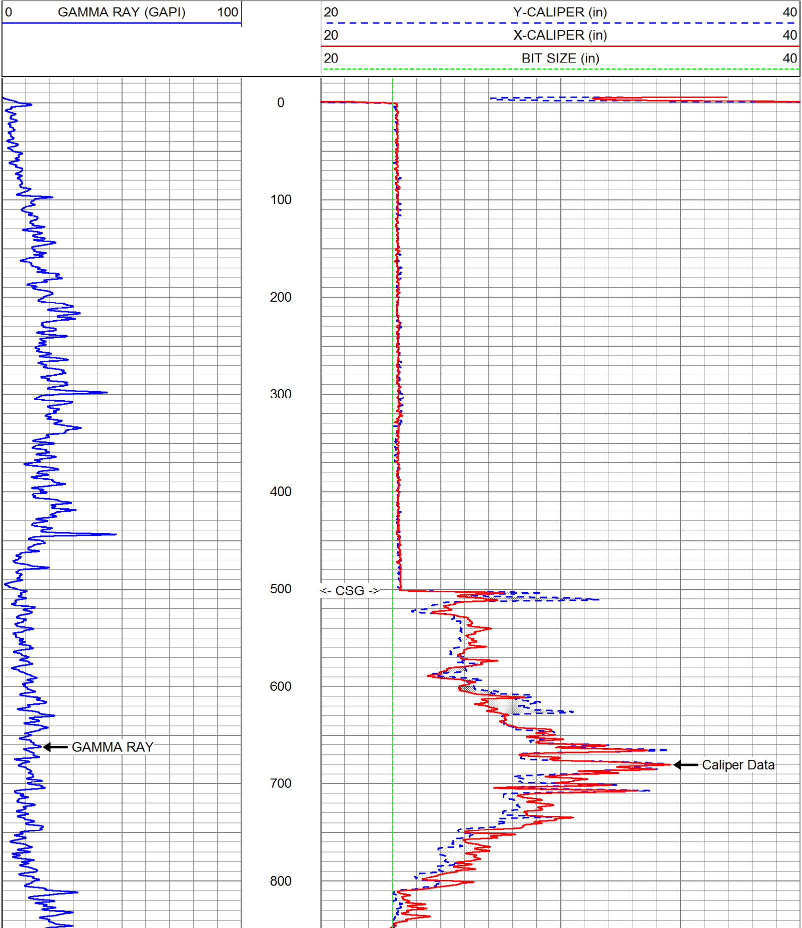
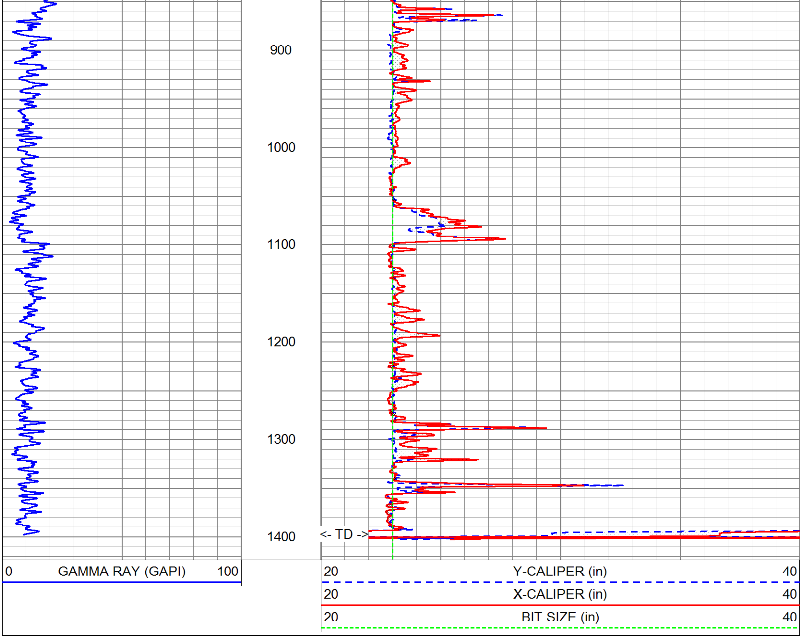
MAIN PASS

Database File:	rvbamec1.db
Dataset Pathname:	run2/MAIN
Presentation Format:	xy2040-1
Dataset Creation:	Fri Apr 20 22:09:09 2012
Charted by:	Depth in Feet scaled 1:1200





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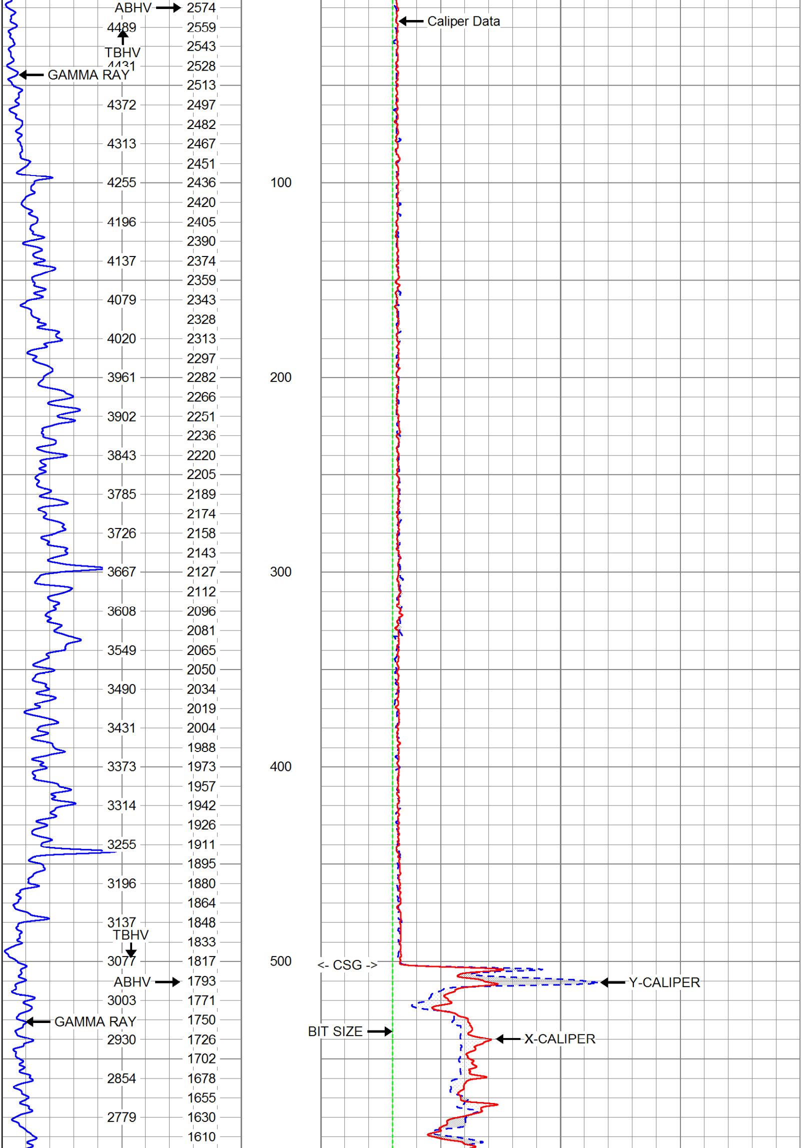
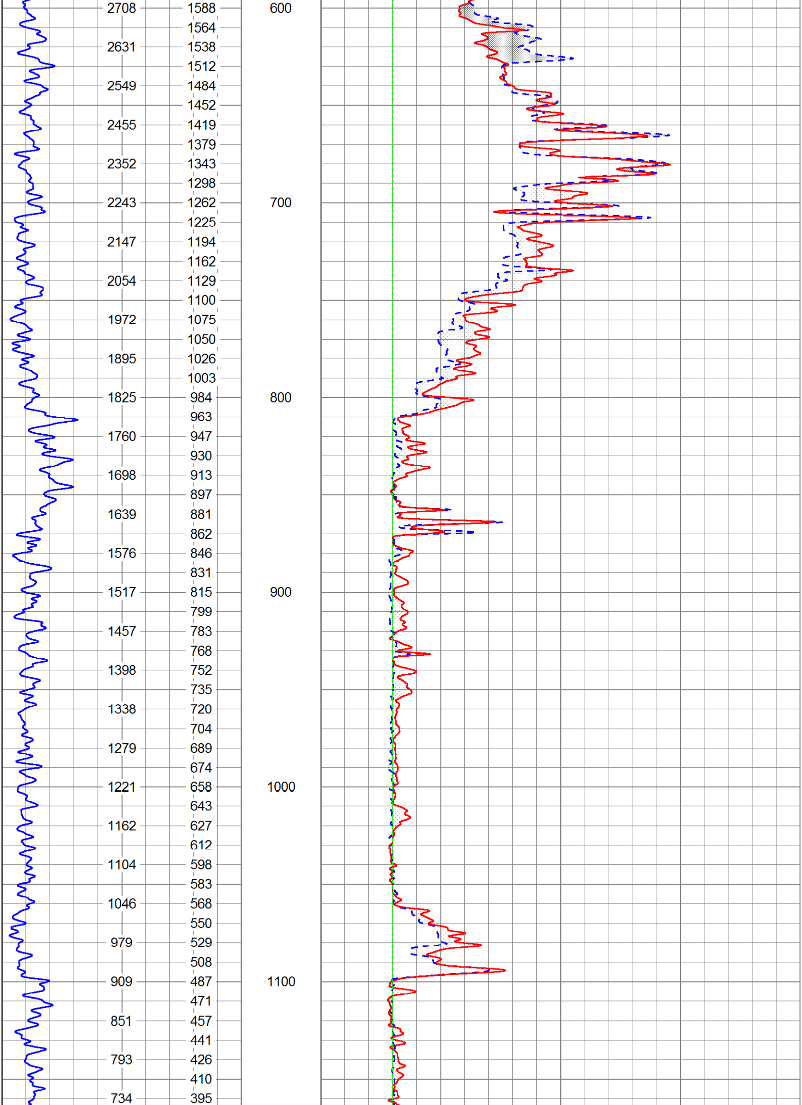
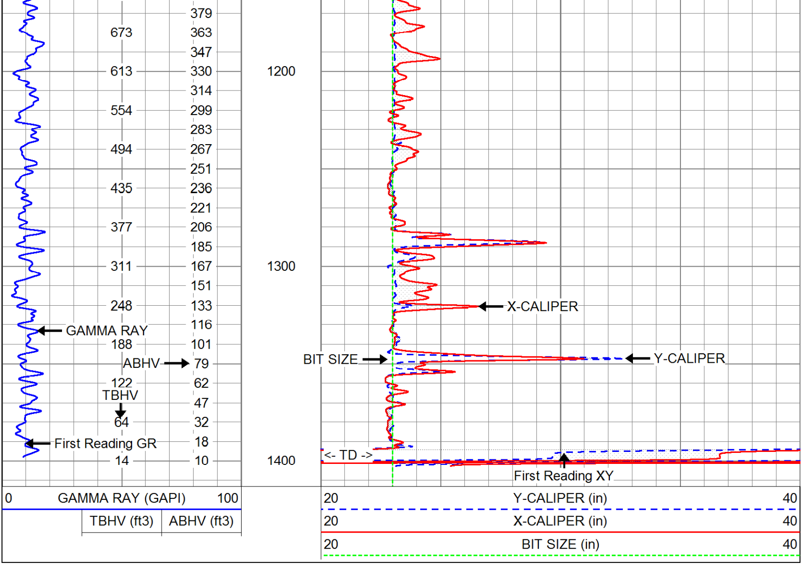
MAIN PASS

Database File: rvbamec1.db
Dataset Pathname: run2/MAIN
Presentation Format: xy2040-5
Dataset Creation: Fri Apr 20 22:09:09 2012
Charted by: Depth in Feet scaled 1:600







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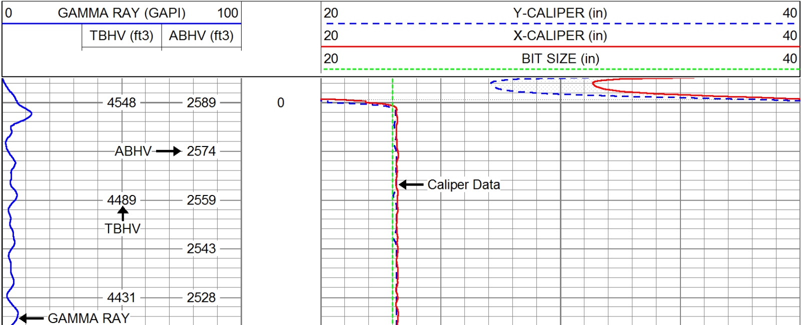
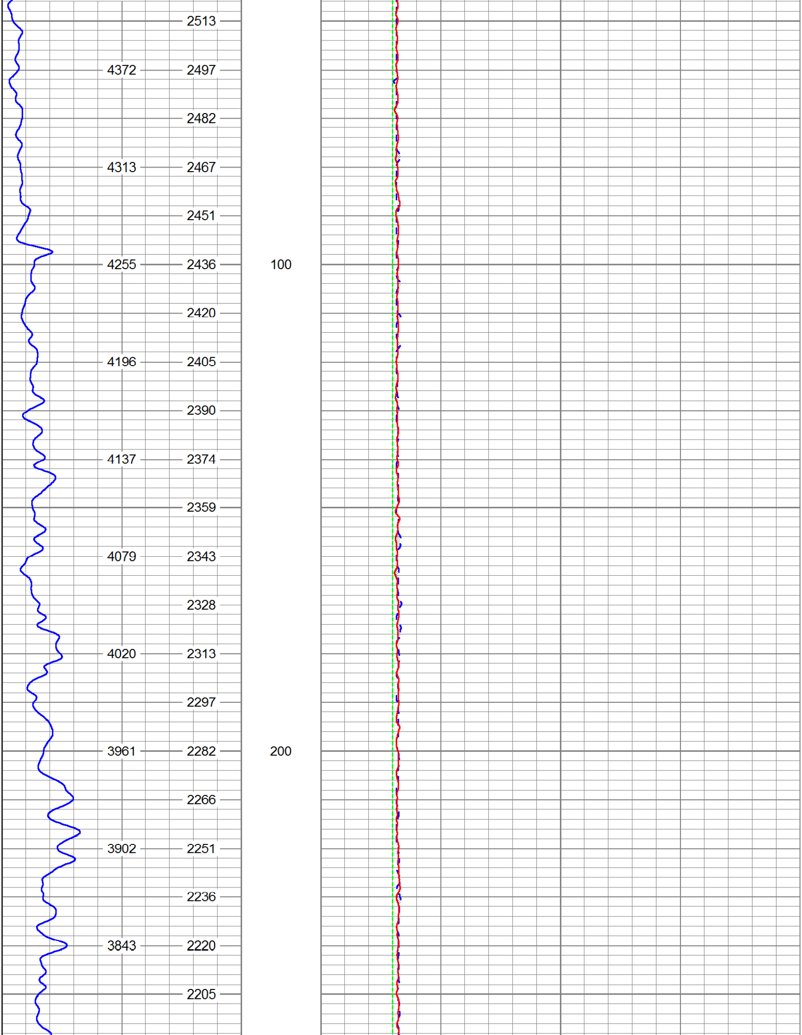
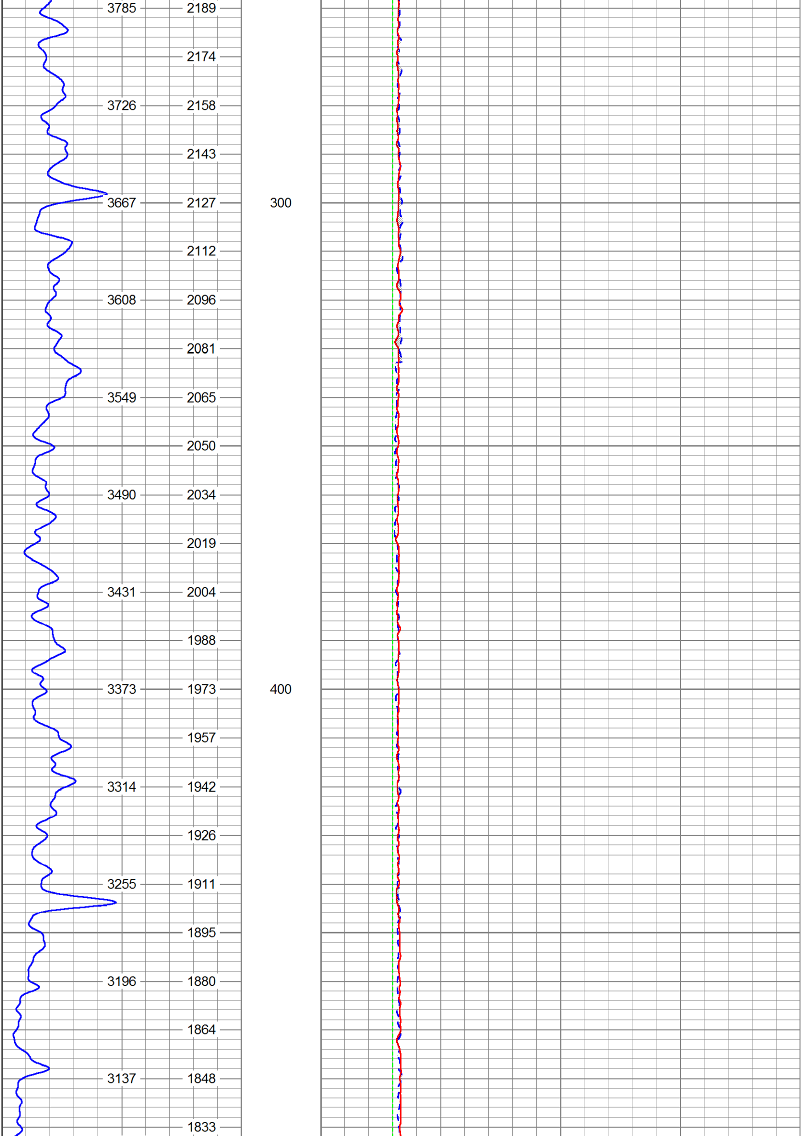
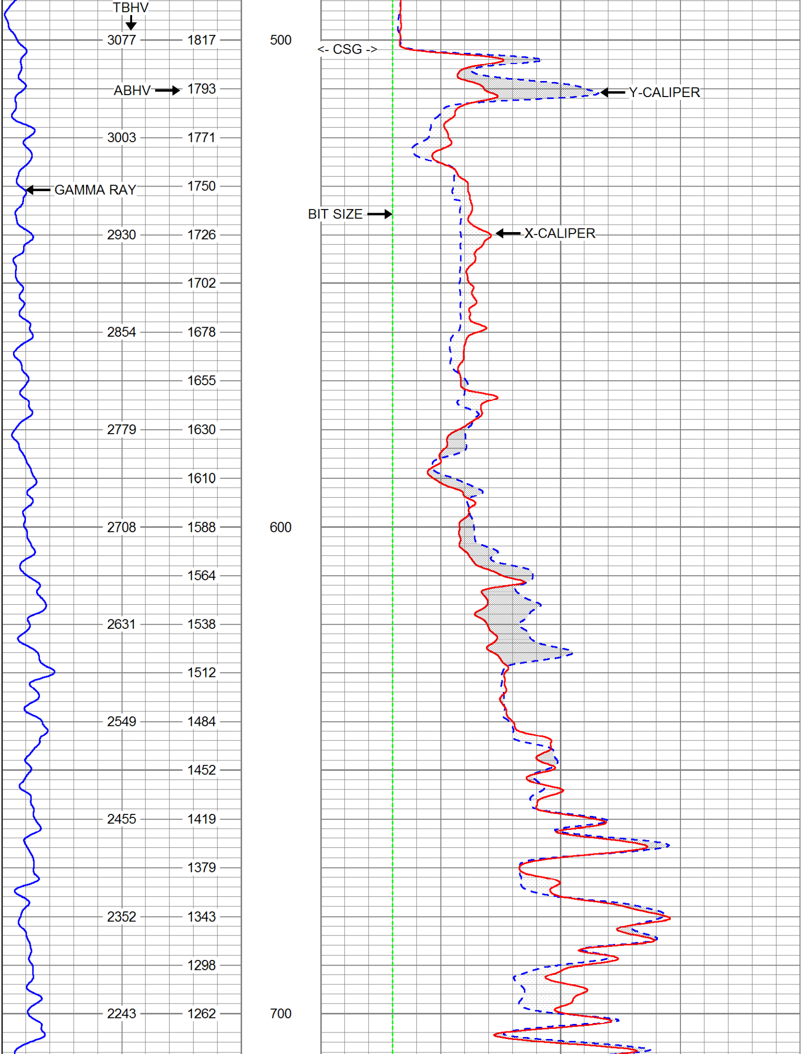
MAIN PASS

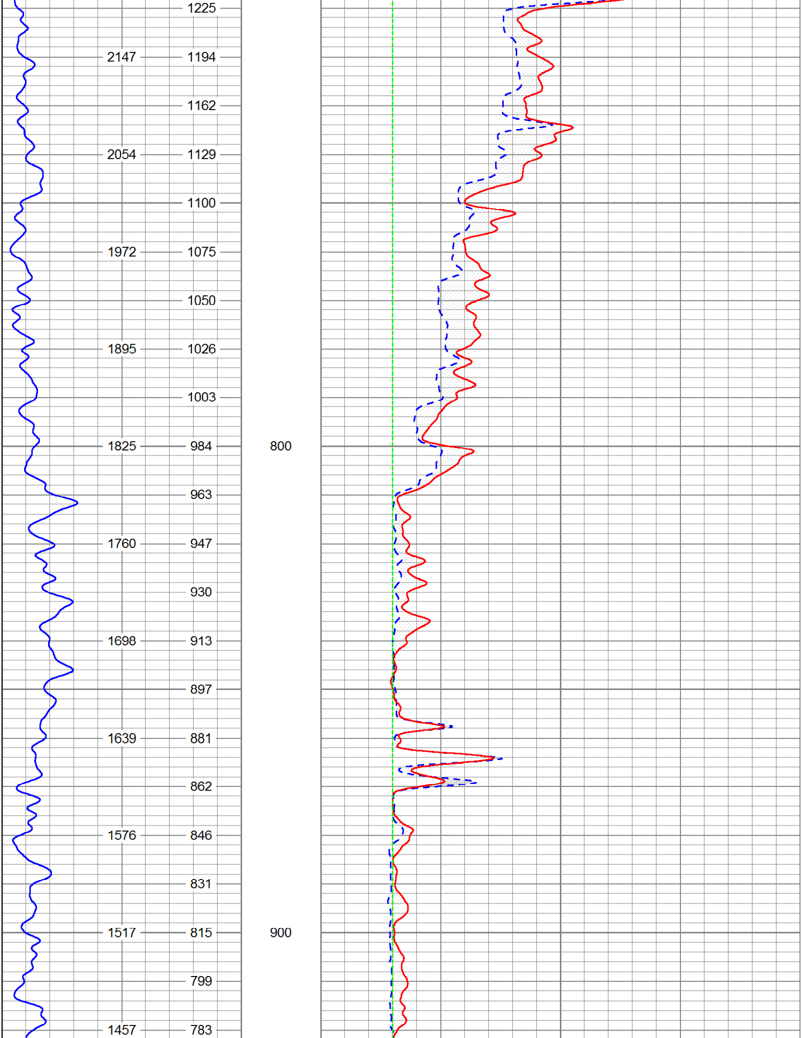
Database File:	rvbamec1.db
Dataset Pathname:	run2/MAIN
Presentation Format:	xy2040-5
Dataset Creation:	Fri Apr 20 22:09:09 2012
Charted by:	Depth in Feet scaled 1:240

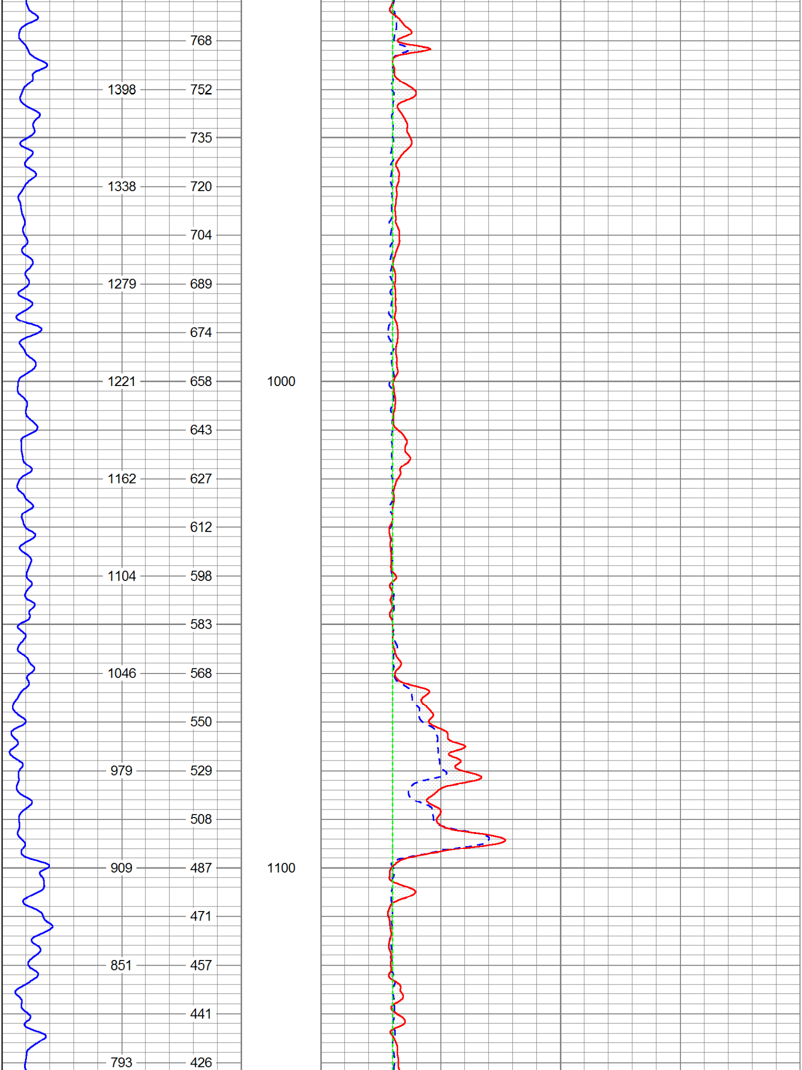


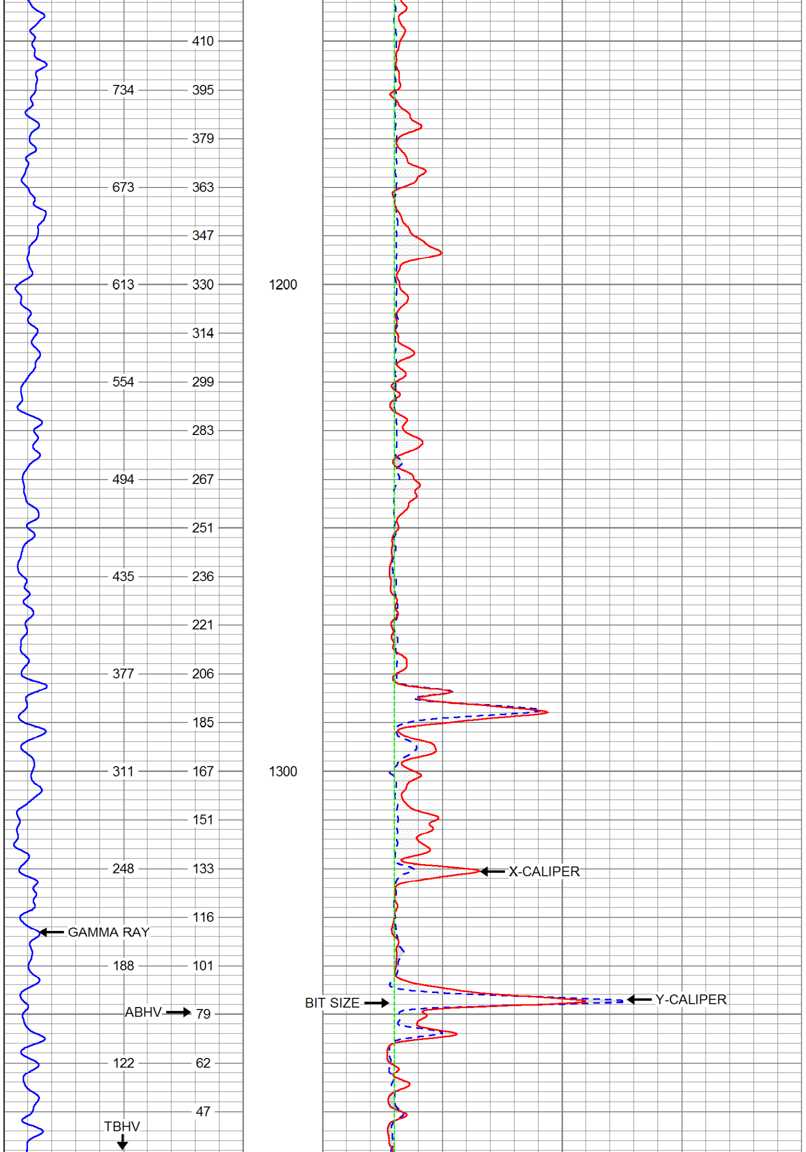


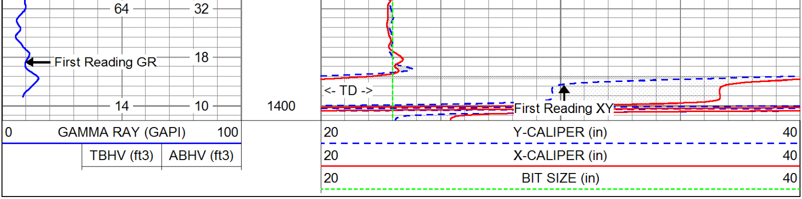












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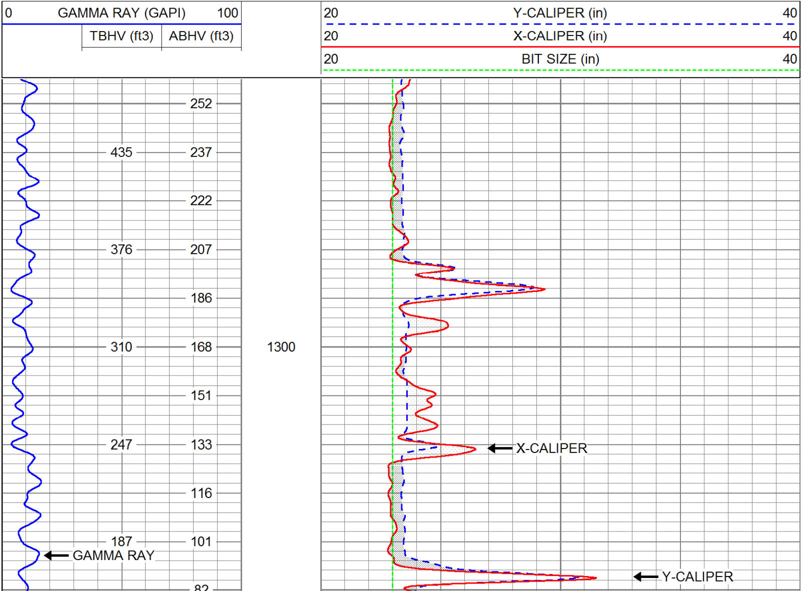
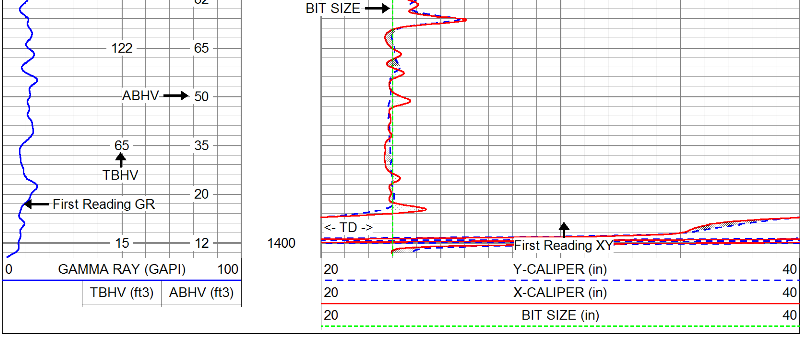
REPEAT SECTION

Database File:	rvbamec1.db
Dataset Pathname:	run2/REPEAT
Presentation Format:	xy2040-5
Dataset Creation:	Fri Apr 20 21:49:55 2012
Charted by:	Depth in Feet scaled 1:240





Calibration Report

Database File: rvbamec1.db
Dataset Pathname: run2/pass3
Dataset Creation: Fri Apr 20 21:23:50 2012 by Log VER_5.3

XY Caliper Calibration Report

Serial Number: 01L
Tool Model: XYCL
Performed: Fri Apr 20 21:47:13 2012

Small Ring: 23.25 in
Large Ring: 51 in

	X Caliper	Y Caliper	
Reading with Small Ring:	770	801	cps
Reading with Large Ring:	1139.3	1078.3	cps
Gain:	0.0751422	0.100072	
Offset:	-34.6095	-56.9078	

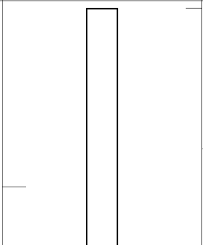
Gamma Ray Calibration Report

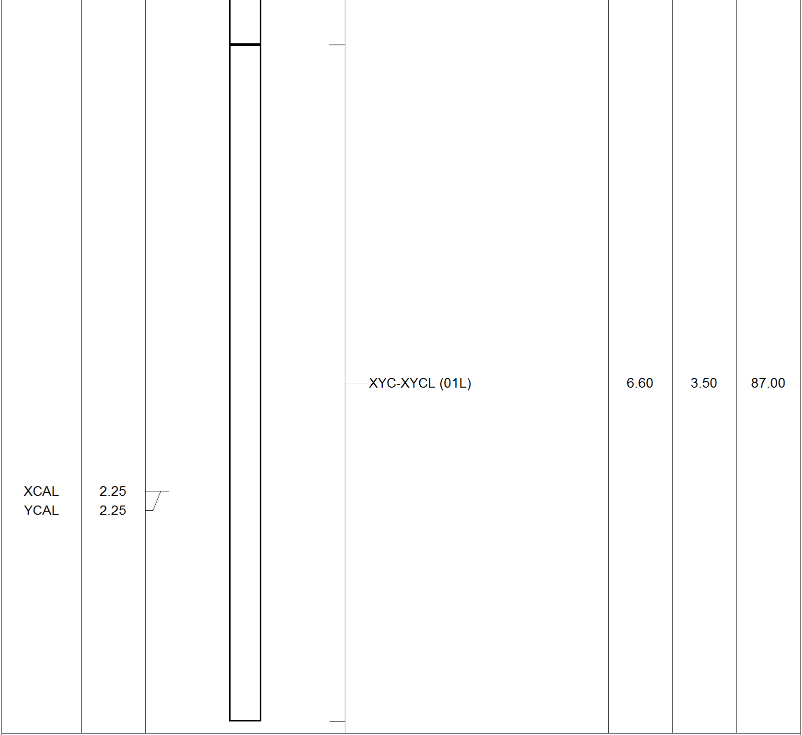
Serial Number: 01
Tool Model: GROH
Performed: Fri Apr 20 08:29:12 2012

Calibrator Value: 120 GAPI

Background Reading: 13.478 cps
Calibrator Reading: 132.751 cps

Sensitivity: 1.0061 GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	7.60		GR-GROH (01)	2.75	3.50	40.00



Dataset: rvbamec1.db: field/well/run2/pass3
Total Length: 9.35 ft
Total Weight: 127.00 lb
O.D. 3.50 in

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Company	Rowe Drilling Company		
Well	MW-2		
Field	Vero Beach		
County	Indian River		
State	Florida	Country	USA