



Weatherford

CALIPER LOG
CMI-MCG
SCALE 2":100

COMPANY	SAVIA PERU S.A										
WELL	LOG-26XD										
FIELD	LOBITOS										
PROVINCE/COUNTY	PIURA										
COUNTRY/STATE	PERU										
LOCATION	N: 9 508 662.12m E: 459 045.17m										
Permanent Datum SEA LVL, Elevation 50 feet Log Measured From KB Drilling Measured From KB.	Other Services					Elevations:					
	MDL					KB					
	MDN					DF					
Date	05-JAN-2013					07-JAN-2013					GL
Run Number	ONE					TWO					
Service Order	796					796					
Depth Driller	9800.00					9800.00					feet
Depth Logger	6942.00					9600.00					feet
First Reading	6940.00					9600.00					feet
Last Reading	5850.00					5850.00					feet
Casing Driller	5898.00					5898.00					feet
Casing Logger	5886.75					5886.75					feet
Bit Size	8.500					8.500					inches
Hole Fluid Type	WATER BASED					WATER BASED					
Density / Viscosity	1.41	g/cc	19.00	CP	1.41	g/cc	24.00	CP			
PH / Fluid Loss	9.40		4.80	CC/30Min	9.30		4.60	CC/30Min			
Sample Source	ACTIVE PIT					ACTIVE PIT					
Rm @ Measured Temp	1.40 @ 76.0		ohm-m		1.45 @ 78.0		ohm-m				
Rmf @ Measured Temp	0.95 @ 78.0		ohm-m		0.95 @ 78.0		ohm-m				
Rmc @ Measured Temp	3.0 @ 78.0		ohm-m		2.60 @ 80.0		ohm-m				
Source Rmf / Rmc	PRESS		FILTER		PRESS		FILTER				
Rm @ BHT	0.88 @123.0		ohm-m		0.80 @136.0		ohm-m				
Time Since Circulation	10:00 05JAN				23:00 08JAN						
Max Recorded Temp	123.00		deg F		136.00		deg F				
Equipment / Base	16064		TAL		16064		TAL				
Recorded By	YANINA MENDEZ					YANINA MENDEZ					
Witnessed By	CESAR MORALES					CESAR MORALES					

REMARKS

- Objective: to obtain accurate open hole Gamma Ray , SP, Caliper 8 arms, Resistivity (Dual Laterolog), Sonic log in the 8.5" section.
- This is the First Log done in this well. RULS 206.31ft ;
- All WFT logging depth control applied.
- Casing Shoe was found at 5886.75 ft MD.
- Maximum recorded temperature measured by Gamma Ray sensor: 136°F.
- Mud resistivity measurements: Rm= 1.4 @ 76 °F, Rmf= 0.95 @ 78 °F, Rmc= 3.00 @ 78 °F.
- Mud resistivity measurements at BHT: Rm= 0.799 @ 136°F, Rmf = 0.554@ 136°F, Rmc= 1.75 @ 136°F.
- Well sketch as per driller depth.
- Main section from TD to 8500ft and from 7900ft to 3540 ft MD as per client requirements .
- No Repeat Section due to bridged.
- Hole volume= 1085ft^3
- Annular volume= 750ft^3 for a 5.5" casing.
- Average:
X caliper: 10.706"
Y caliper: 9.396"
X caliper: 9.92"
Y caliper: 9.058"
- The scales and shading of the curves are as per client requirements.
- Enviromental corrections.
- Gamma Ray: Mud density, Caliper.
- Laterolog: Standoff, caliper, mud resistivity.
- Maximun deviation 34.50deg @ 4525 ft and maximun dogleg severity 5.55deg @ 410.00ft
- Neutron and GR logged to 3550ft as per client request.
- Toolstring bridged @ 7164ft. Try to pass the point for two hours. Then with client assurance we proceed to log from there to 3550ft.
- At secpnd attempt the toostring bridged again @ 7715ft. The cliente decided to log this part and removed the sonic at surface (MSS) to decreased the lenght of the toolstring, and move the SKJ to another position, removed the hole finder which was damaged after two bridgeds. The tool was ran again and after several attempts to reach TD, the maximun depth achieved was 7899ft. After these attemots to reach TD the client decided to run TDL.
- The data from the bottom part, obtain by TDL-CWS is on depth with the mule shoe (8500ft).

21. The data obtain with the TDL-CWS will be send to double check to try to get a better data quality

Crew at your service:

Y. Mendez / J. Jimenez / P. Marcelo / G. Chavez / E. Cruz / E. Roldan / J. Guerrero

BOREHOLE RECORD

Last Edited: 05-JAN-2013 14:44

Bit Size inches	Depth From feet	Depth To feet
17.000	0.00	1898.00
12.250	1898.00	5898.00
8.500	5898.00	9800.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
surf	13.375	0.00	1898.00	54.50
interm	9.625	0.00	5898.00	43.50

WELL DIAGRAM

13.38 in Casing: 0.00 ft

9.63 in Casing: 0.00 ft

17.00 in Bit size: 0.00 - 1898.00 ft

13.38 in Casing shoe: 1898.00 ft

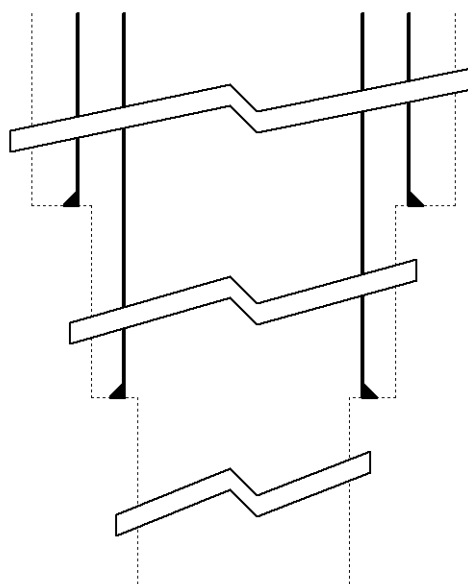
12.25 in Bit size: 1898.00 - 5898.00 ft

9.63 in Casing shoe: 5898.00 ft

8.50 in Bit size: 5898.00 - 9800.00 ft

Total bit depth: 9800.00 ft

Temperature: 123.00 Degrees F



DOWNHOLE EQUIPMENT

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CBH-C, Cablehead, 11 pin

CBH-CC 124 LG: 2.40 ft WT: 24.3 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor

SHA-J.A 229 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

Compact Stiff Bridle Electrode Sub.

MBE-C.B 260 LG: 12.33 ft WT: 77.2 lb OD: 2.28 in

Compact Stiff Bridle Electrode Sub.

MBE-C.B 261 LG: 12.33 ft WT: 77.2 lb OD: 2.28 in



90.31 ft SPDL - Spontaneous Potential

SKJ-D.A Compact Knuckle Joint
SKJ-D.A 171 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Comms Gamma
MCG-D.A 261 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

MIS-D.B Compact Inline Bowspring sub
MIS-D.B 755 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact Neutron
MDN-C.A 442 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper
MPD-C.A 238 LG: 9.59 ft WT: 90.4 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 507 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Upper Guard Sub.
MUG-A 47 LG: 8.98 ft WT: 68.3 lb OD: 2.24 in

MIS-E.B Compact Inline Standoff sub
MIS-E.B 633 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

Compact Laterolog Electrode Sub.
MLE-D.A 227 LG: 12.34 ft WT: 92.6 lb OD: 2.24 in

MIS-E.A Compact Inline Standoff sub
MIS-E.A 150 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

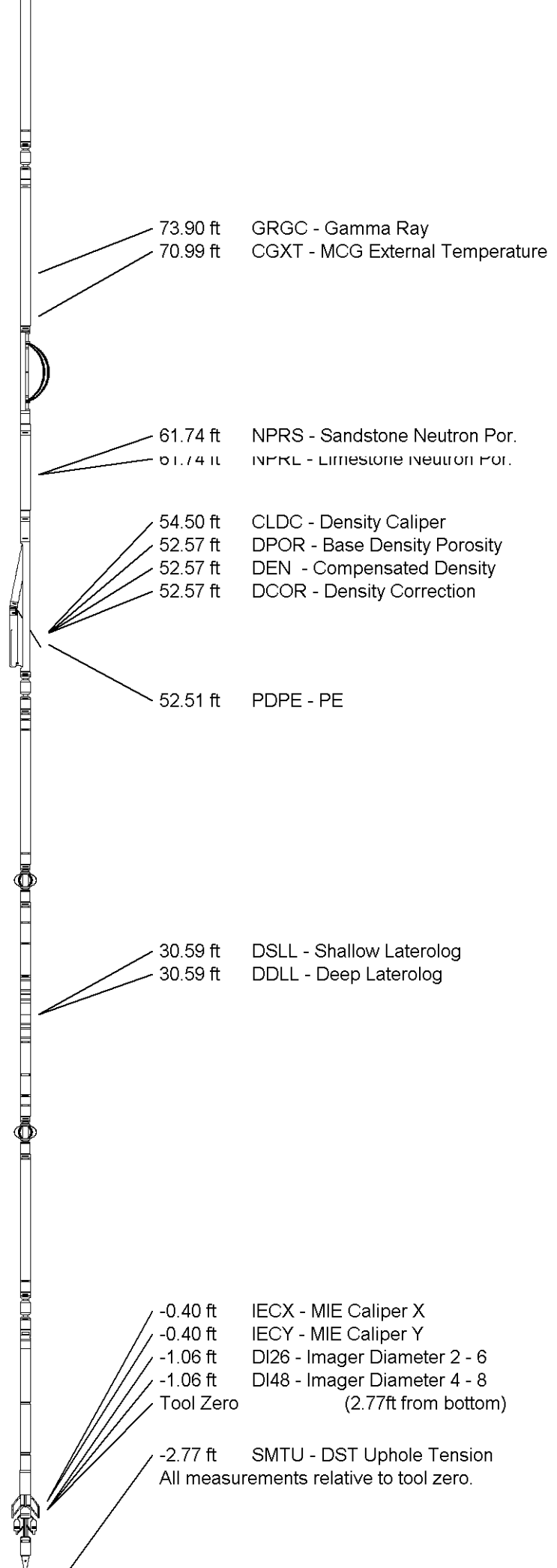
Compact Lower Guard Sub.
MLG-B.A 139 LG: 8.00 ft WT: 55.1 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 547 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

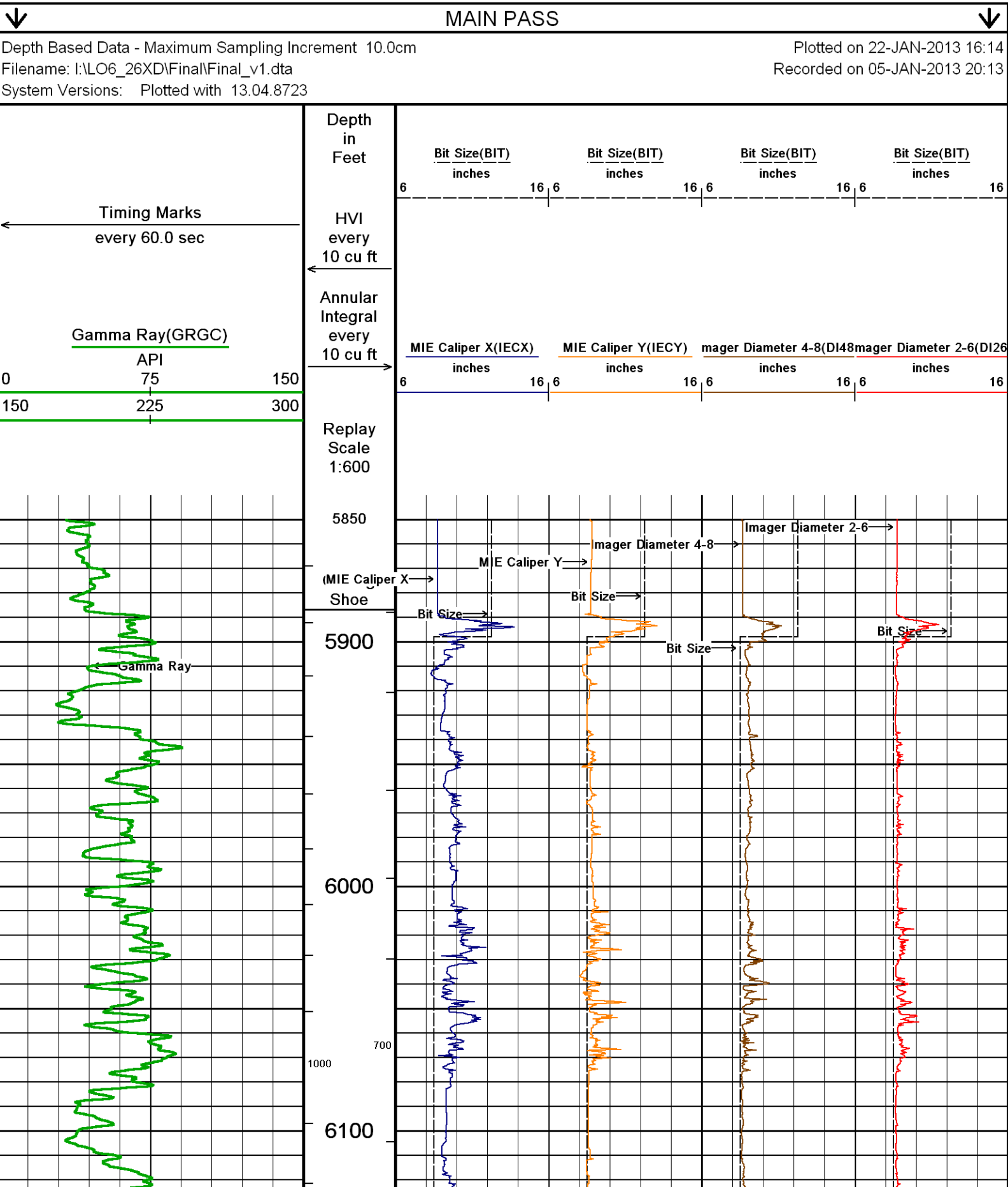
Compact MMI Electrode Section
MIE-A.A 171 LG: 13.96 ft WT: 99.2 lb OD: 2.40 in

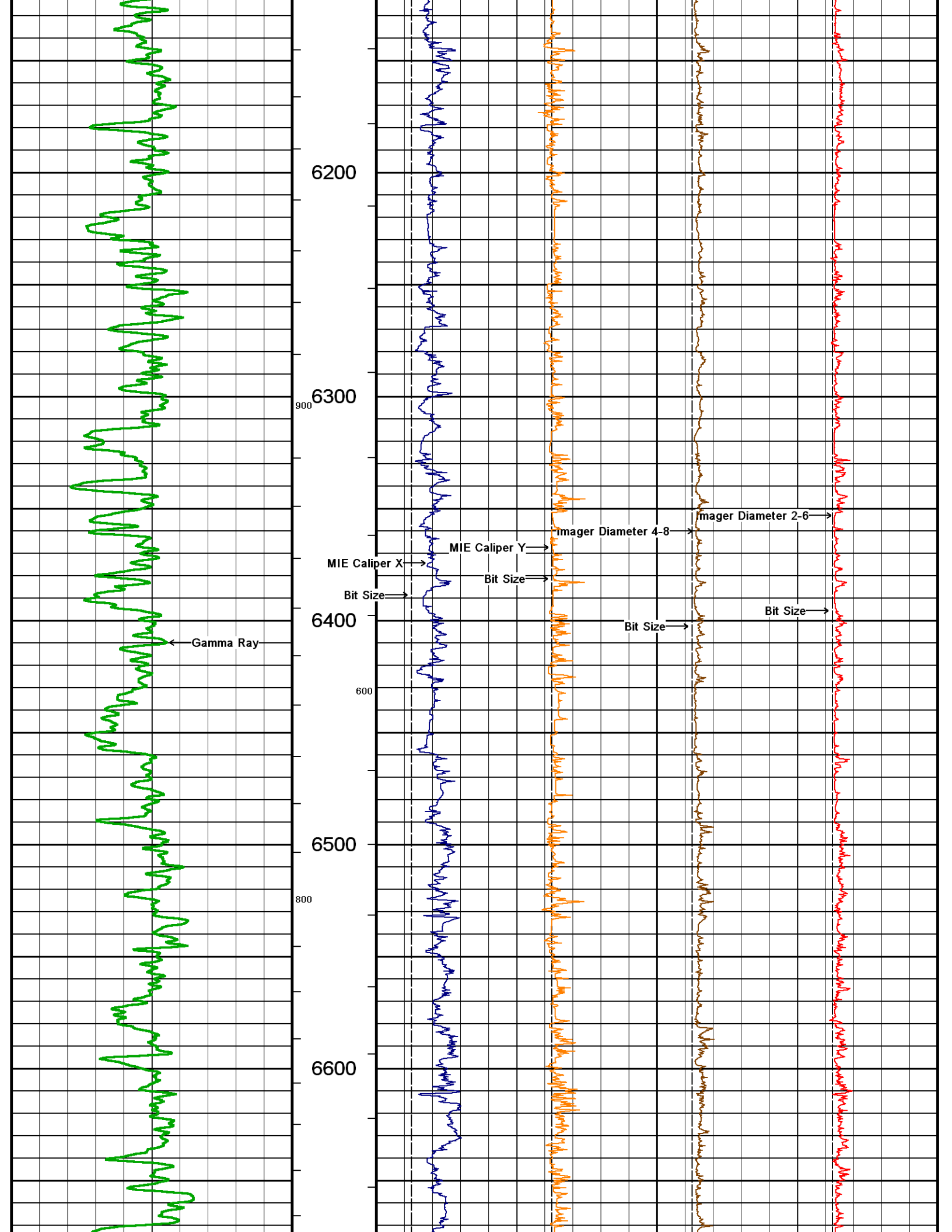
Compact Hole Finder
HFS 1 LG: 0.92 ft WT: 2.2 lb OD: 2.24 in

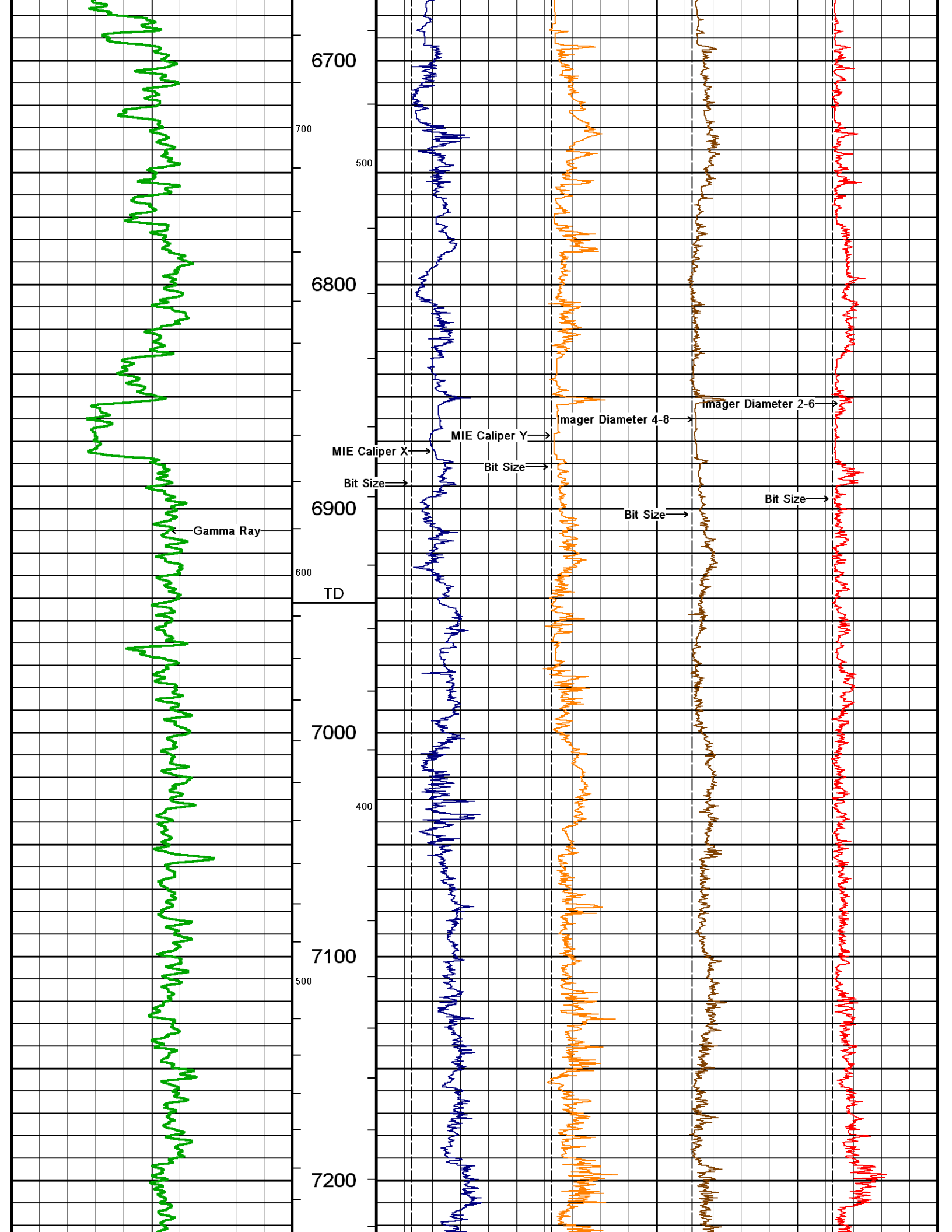
Total Length: 113.35 ft Weight: 859.8 lb

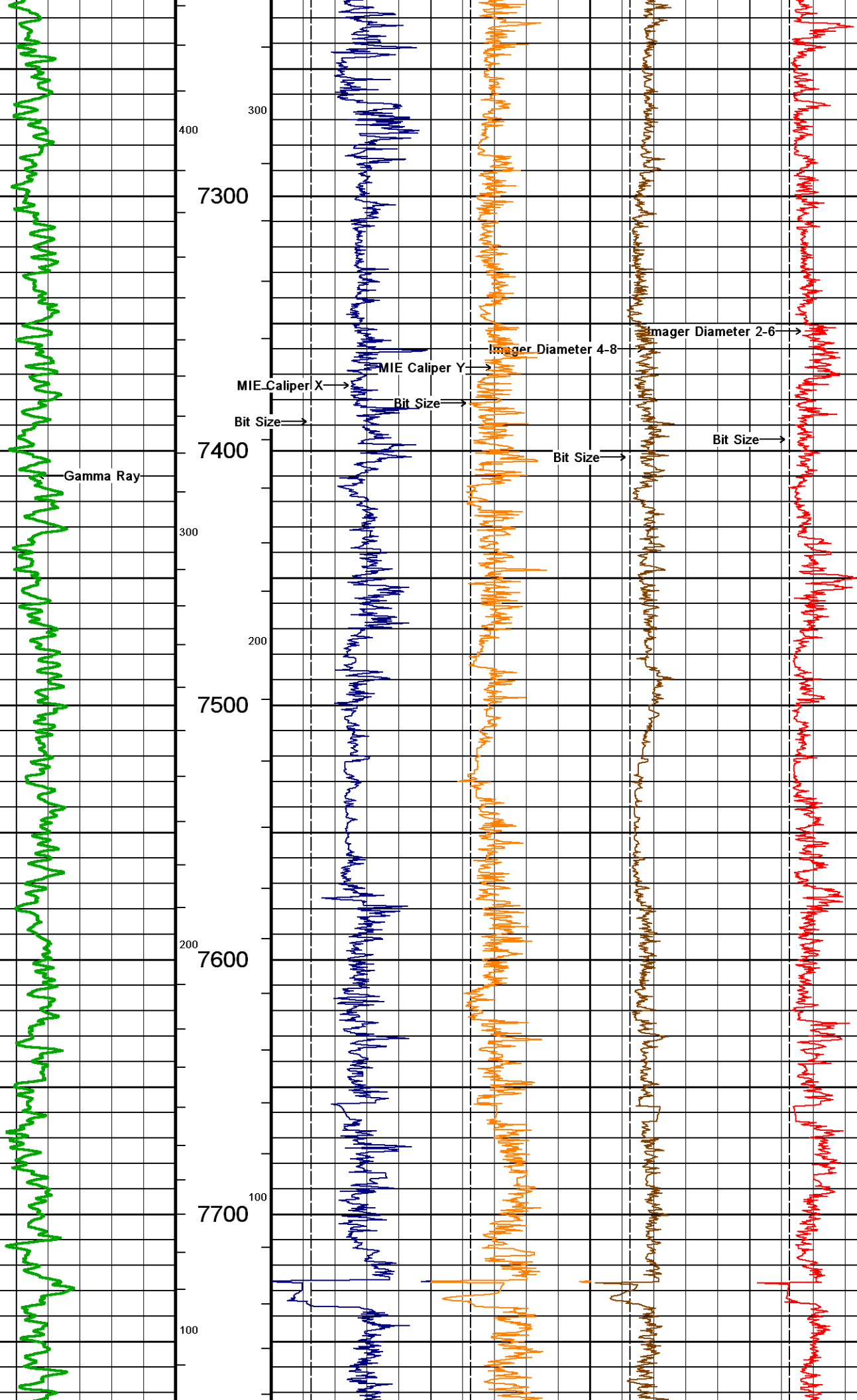


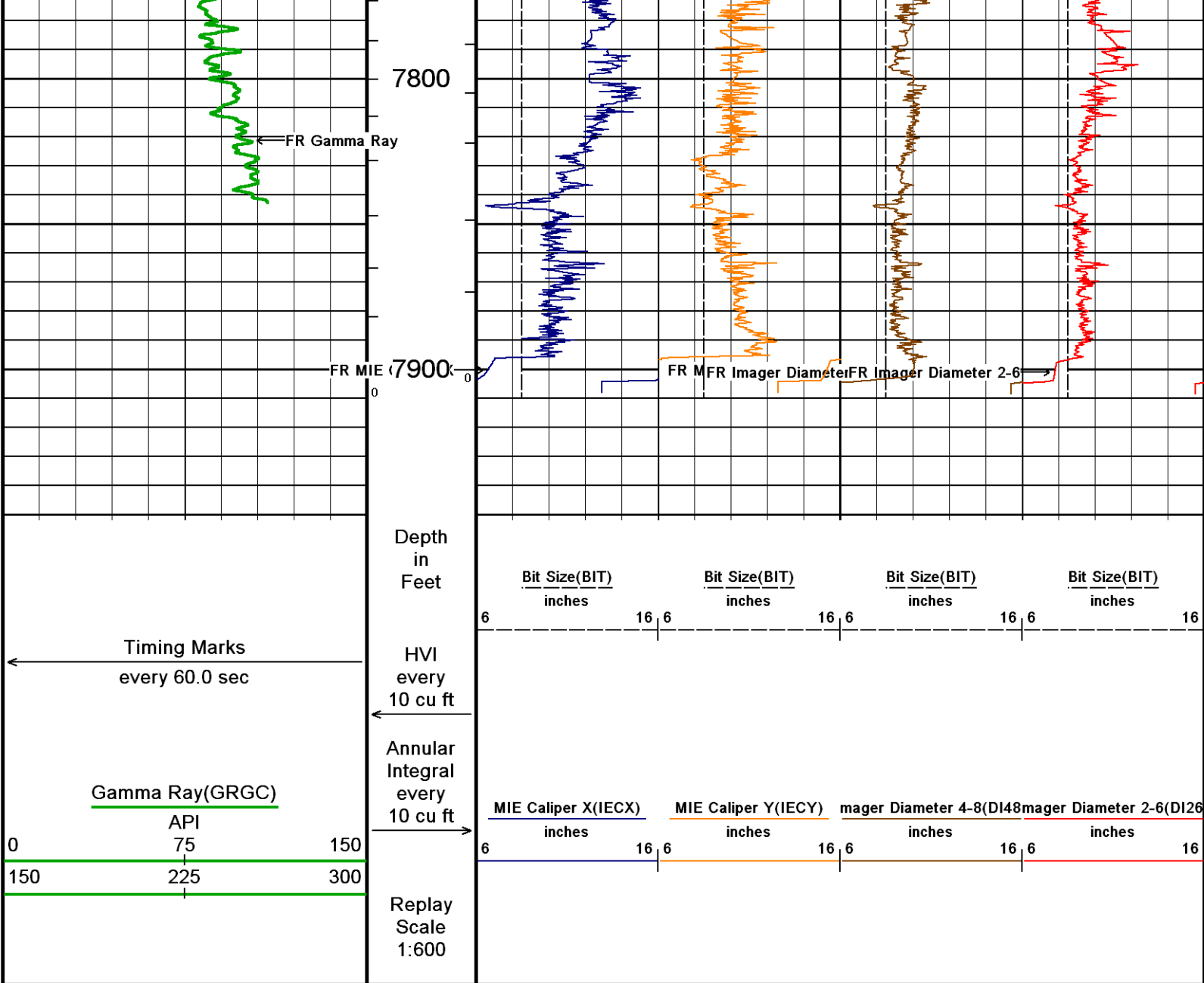
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, 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 in our price schedule.







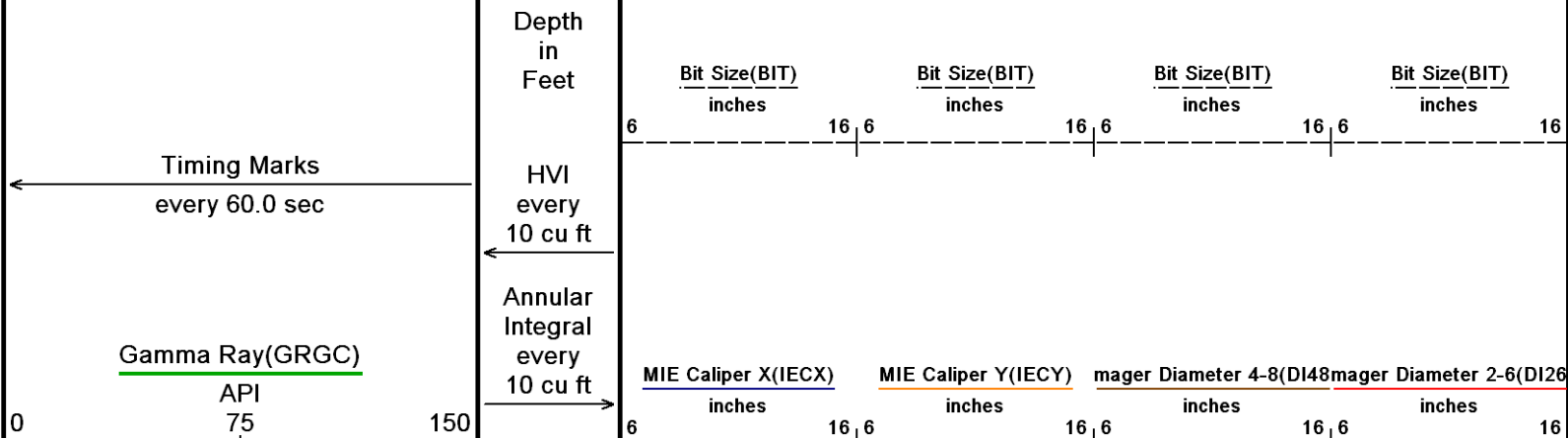




Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 22-JAN-2013 16:14
Filename: I:\LO6_26XD\Final\Final_v1.dta Recorded on 05-JAN-2013 20:13
System Versions: Plotted with 13.04.8723

MAIN PASS

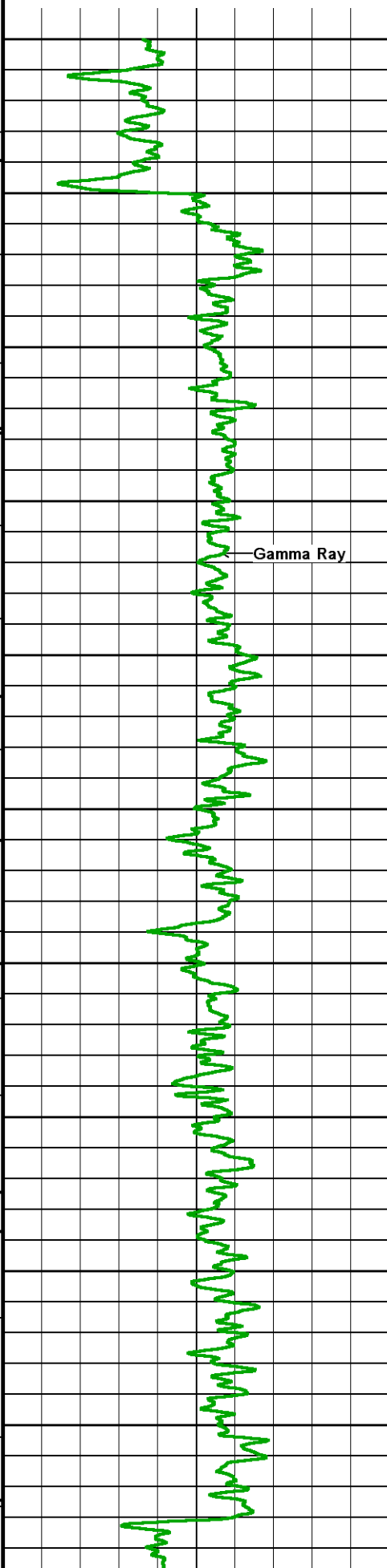
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 22-JAN-2013 16:14
Filename: I:\LO6_26XD\Final\repro5.dta Recorded on 10-JAN-2013 03:46
System Versions: Processed with 13.04.8723 Plotted with 13.04.8723



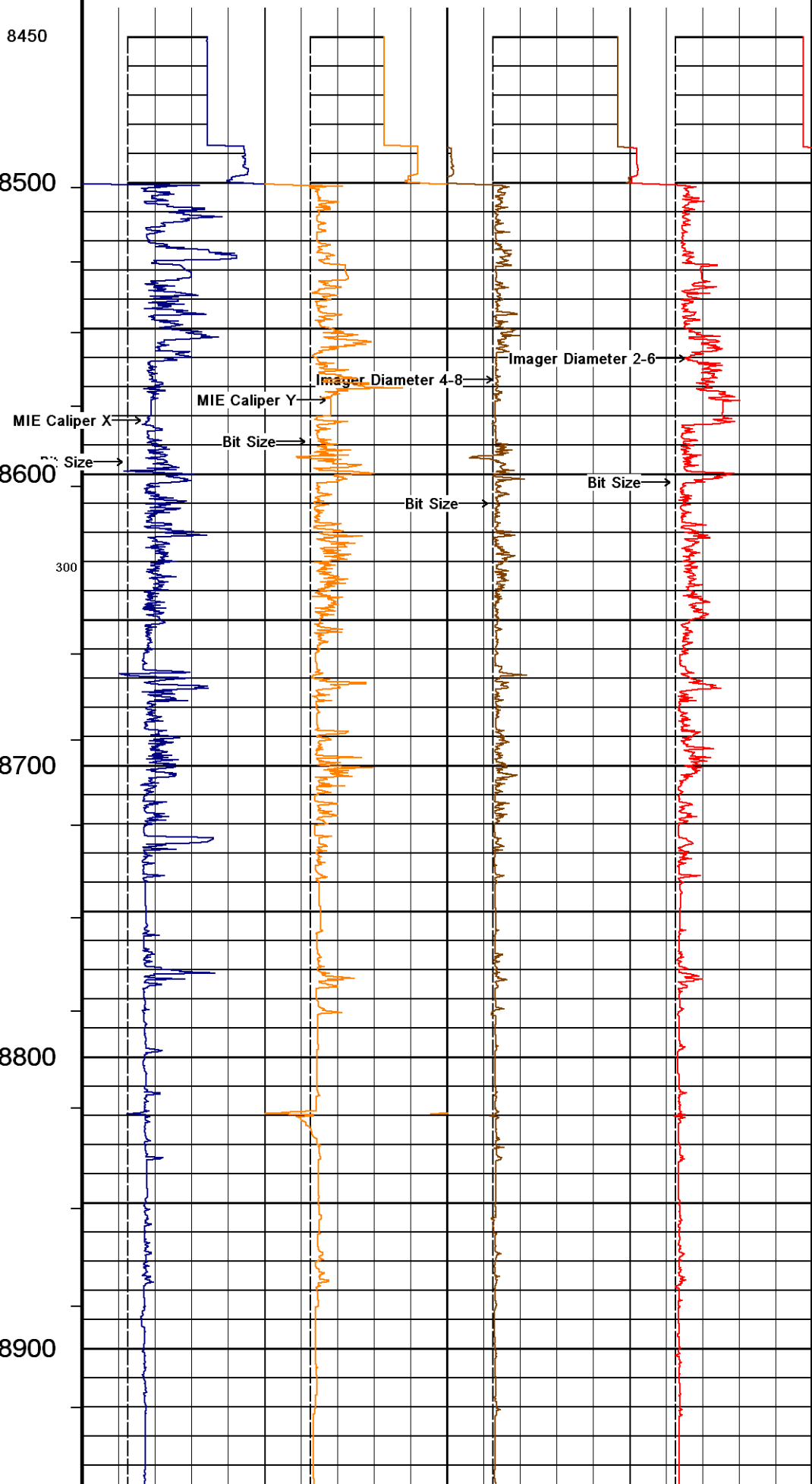
150 225 300

Replay
Scale
1:600

8450
8500
500
8600
300
8700
400
8800
8900



Gamma Ray



MIE Caliper X

MIE Caliper Y

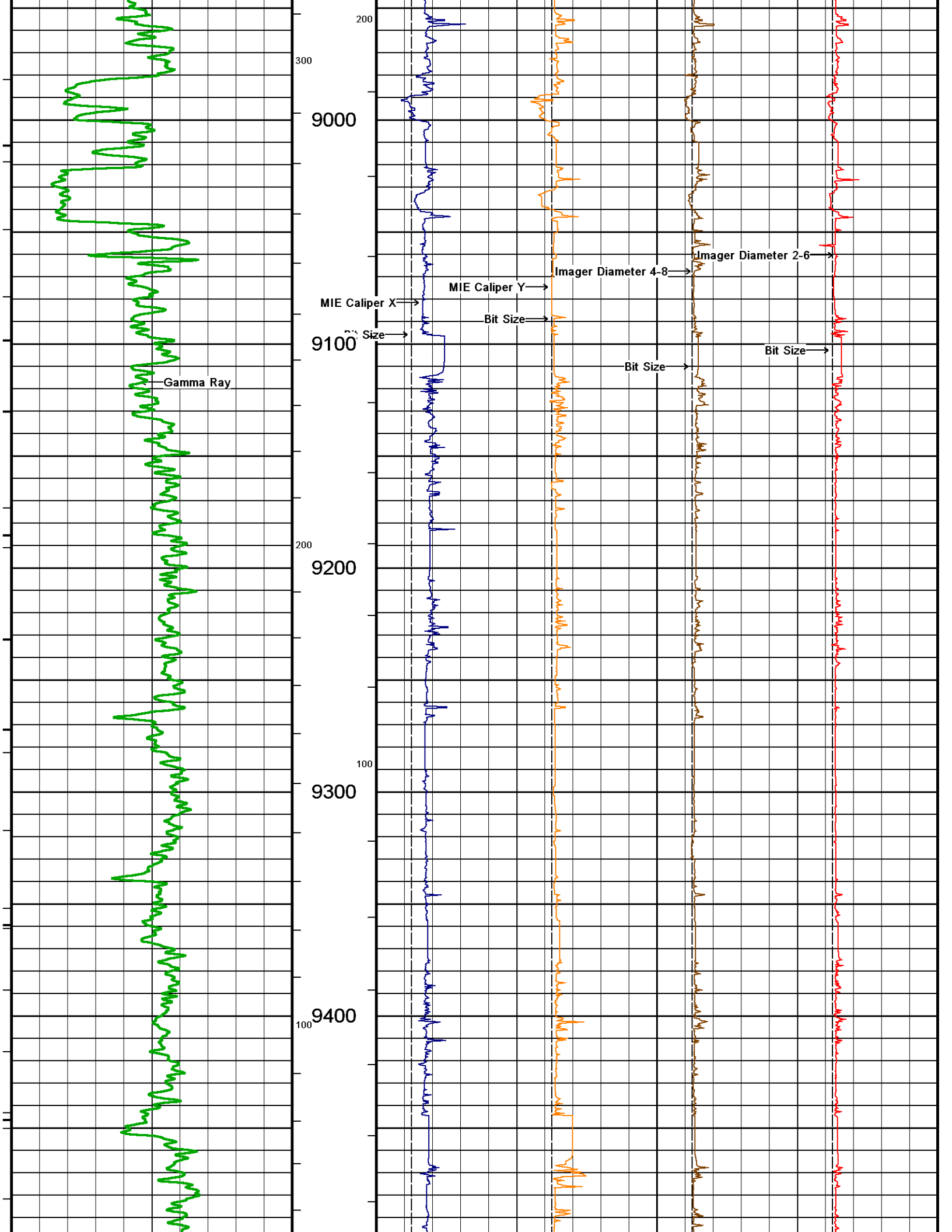
Bit Size

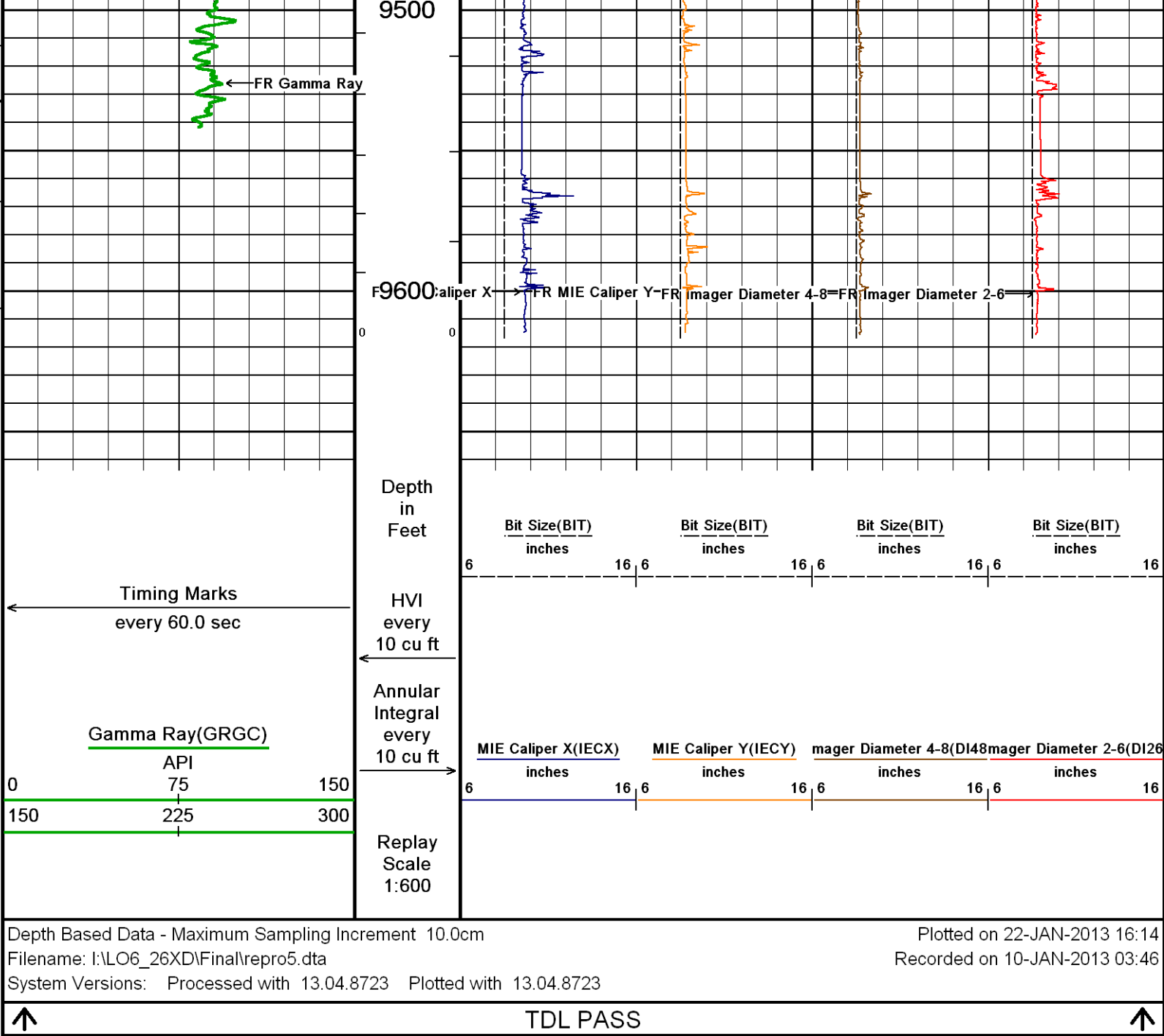
Imager Diameter 4-8

Imager Diameter 2-6

Bit Size

Bit Size





COMPANY	SAVIA PERU S.A				
WELL	LO6-26XD				
FIELD	LOBITOS				
PROVINCE/COUNTY	PIURA				
COUNTRY/STATE	PERU				
Elevation Kelly Bushing	50.00	feet	First Reading	6940.00	feet
Elevation Drill Floor	50.00	feet	Depth Driller	9800.00	feet
Elevation Ground Level	-335.00	feet	Depth Logger	6942.00	feet
		CALIPER LOG			
Weatherford [®]		CMI-MCG			
		SCALE 2":100			

