

BOREHOLE VOLUME PLOT

Fold here

NEUTRON

GENERAL			GAMMA		ACOUSTIC		DENSITY		NEUTRON						
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix	
No.	From	To	ft/min	L	R	L	R		L	R		L	R		
ONE	7993	1549	REC	0	150				30	-10	2.68 g/cc	30	-10	SAND	
DIRECTIONAL INFORMATION															
Maximum Deviation									@	KOP					@
Remarks: RWCH-GTET-DSNT-SDLT-ACRT RAN IN COMBINATION															
ANNULAR HOLE VOLUME CALCULATED FOR 4.5 INCH CASING															
BOREHOLE RUGOSITY, TENSION PULLS AND WASHOUTS MAY AFFECT TOOL RESPONSE AND REPEATABILITY															
TODAY'S CREW: J.FREW, T. BISHOP															
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES, VERNAL, UT (435)789-2550															
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.															
HALLIBURTON															

HALLIBURTON

PARAMETERS REPORT

Depth (ft))	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	7.875	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	10.000	ppg
	SHARED	WAGT	Weighting Agent	Natural	
	SHARED	BSAL	Borehole salinity	1600.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	1.900	ohmm
	SHARED	TRM	Temperature of Mud	37.0	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	4.500	in
	SHARED	ST	Surface Temperature	30.0	degF
	SHARED	TD	Total Well Depth	7993.00	ft
	SHARED	BHT	Bottom Hole Temperature	218.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	NONE	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
	SHARED	TEMM	Temperature Master Tool	NONE	
	SHARED	BHSM	Borehole Size Master Tool	NONE	
	Rwa / CrossPlot	XPOK	Process Crossplot?	Yes	
	Rwa / CrossPlot	FCHO	Select Source of F	Automatic	
	Rwa / CrossPlot	AFAC	Archie A factor	0.6200	

Rwa / CrossPlot	MFAC	Archie M factor	2.1500	
Rwa / CrossPlot	RMFR	Rmf Reference	0.10	ohmm
Rwa / CrossPlot	TMFR	Rmf Ref Temp	75.00	degF
Rwa / CrossPlot	RWA	Resistivity of Formation Water	0.05	ohmm
Rwa / CrossPlot	ADP	Use Air Porosity to calculate CrossplotPhi	No	
GTET	GROK	Process Gamma Ray?	Yes	
GTET	GRSO	Gamma Tool Standoff	0.000	in
GTET	GEOK	Process Gamma Ray EVR?	No	
GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Sandstone	
DSNT	DNSO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.000	in
DSNT	DNTP	Temperature Correction Type	None	
DSNT	DPRS	DSN Pressure Correction Type	None	
DSNT	SHCO	View More Correction Options	No	
DSNT	UTVD	Use TVD for Gradient Corrections?	No	
DSNT	LHWT	Logging Horizontal Water Tank?	No	
SDLT	CLOK	Process Caliper Outputs?	Yes	
SDLT Pad	DNOK	Process Density?	Yes	
SDLT Pad	DNOK	Process Density EVR?	No	
SDLT Pad	CB	Logging Calibration Blocks?	No	
SDLT Pad	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT Pad	DTWN	Disable temperature warning	No	
SDLT Pad	DMA	Formation Density Matrix	2.680	g/cc
SDLT Pad	DFL	Formation Density Fluid	1.000	g/cc
ACRt Sonde	RTOK	Process ACRt?	Yes	
ACRt Sonde	MNSO	Minimum Tool Standoff	1.50	in
ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Up	
ACRt Sonde	TPOS	Tool Position	Eccentered	
ACRt Sonde	RMOP	Rmud Source	Mud Cell	
ACRt Sonde	RMIN	Minimum Resistivity for MAP	0.20	ohmm
ACRt Sonde	RMIN	Maximum Resistivity for MAP	200.00	ohmm
ACRt Sonde	THQY	Threshold Quality	0.50	

BOTTOM

Data: BRUTON_30_08B\0001 TRIPLE_ACRT\004.01 29-Jan-12 12:31 Up

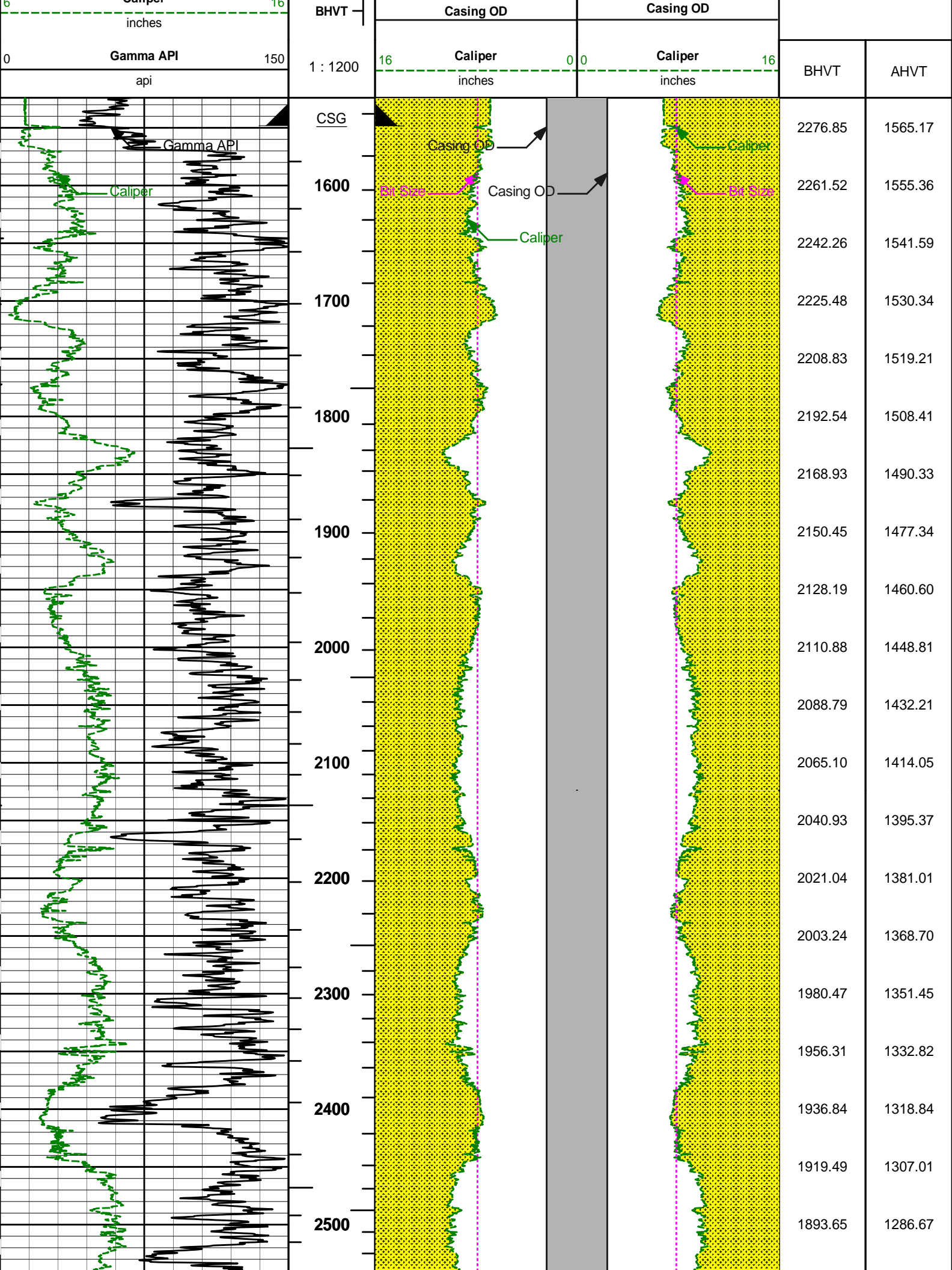
Date: 29-Jan-12 12:51:54

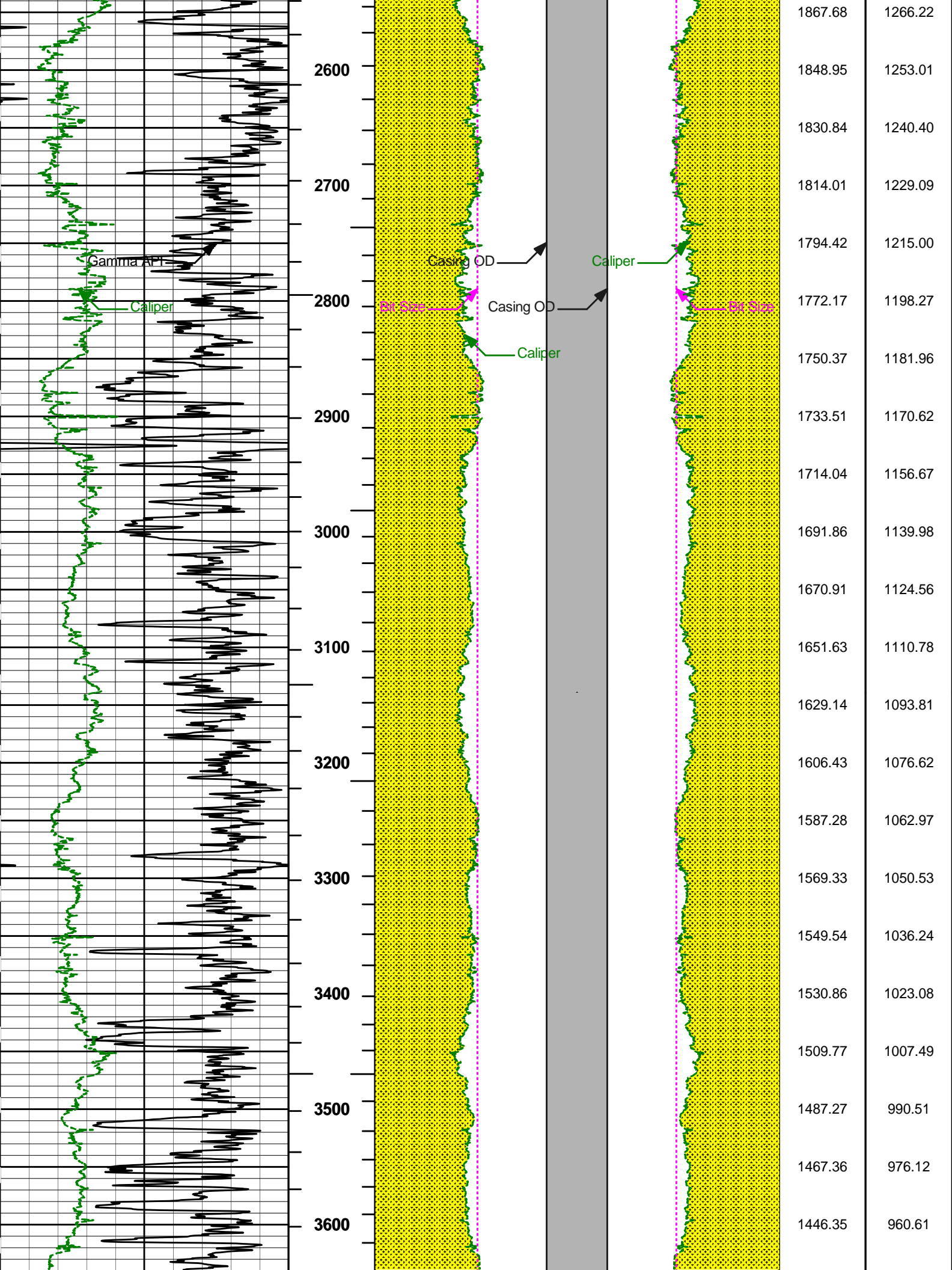
HALLIBURTON

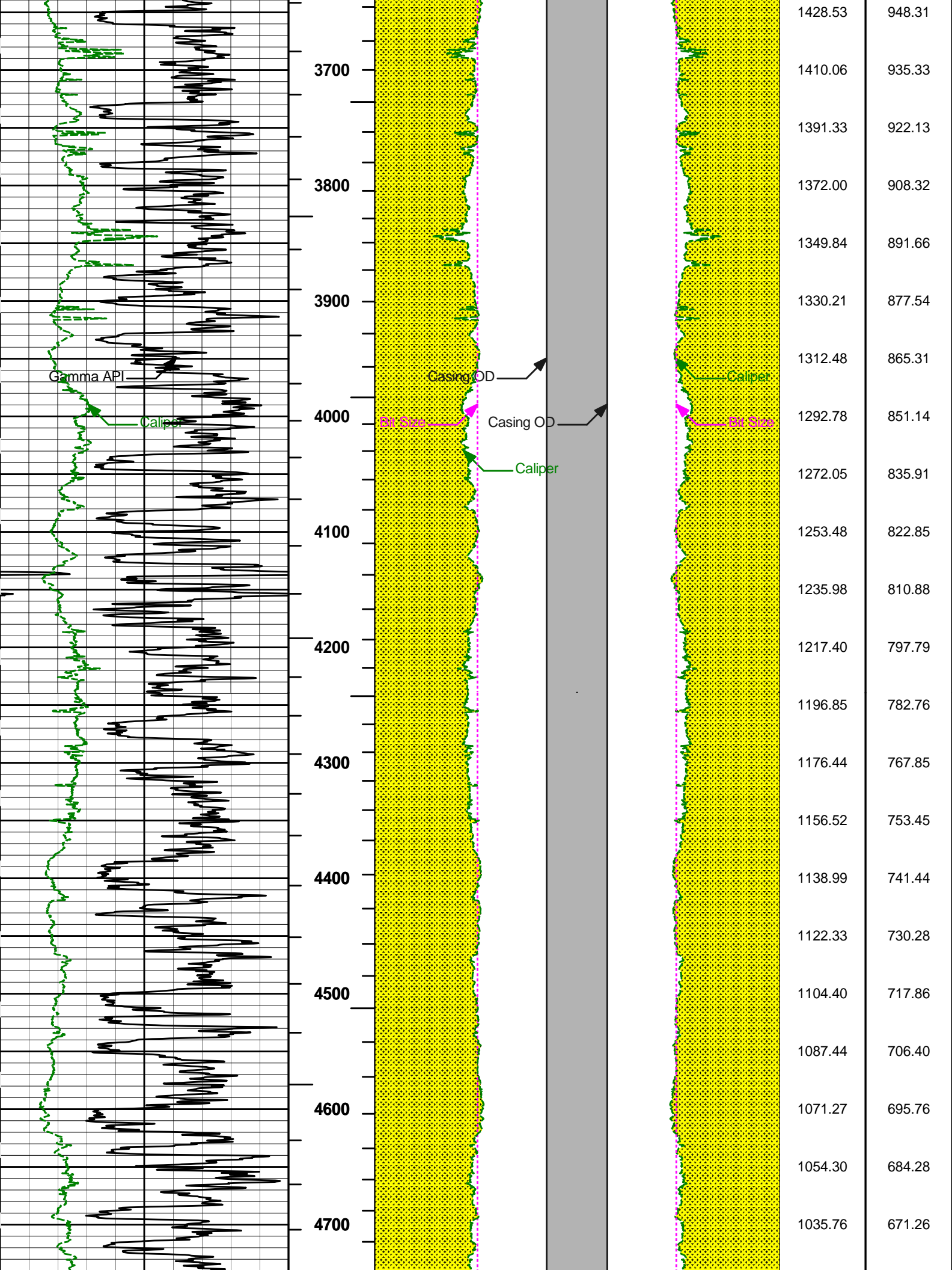
Plot Time: 29-Jan-12 12:57:08
Plot Range: 1524 ft to 8006.67 ft
Data: BRUTON_30_08B\Well Based\MAIN*
Plot File: \\BHV\IQ_BHV_SDL_RM

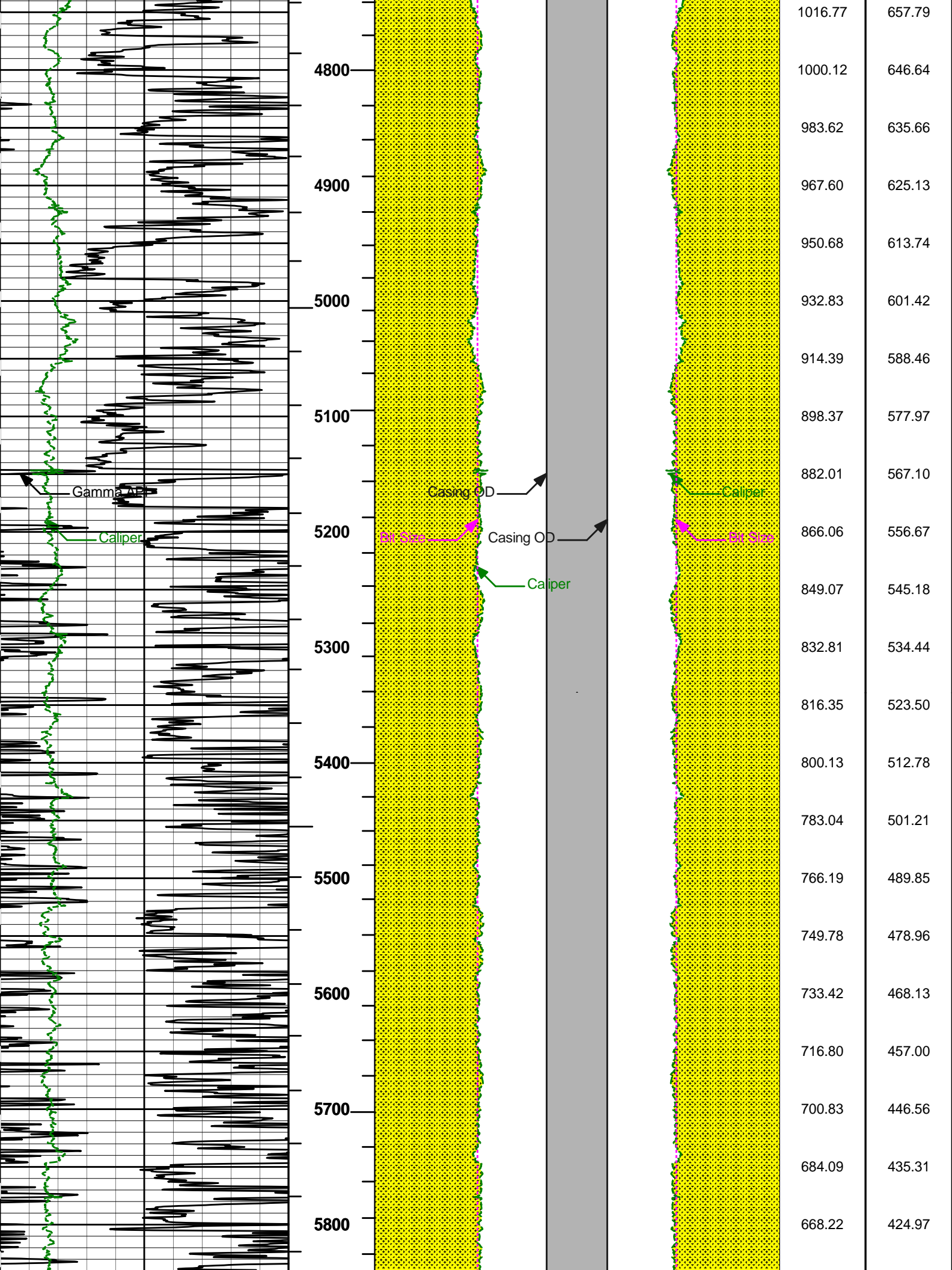
AHV USES 4.5" CASING

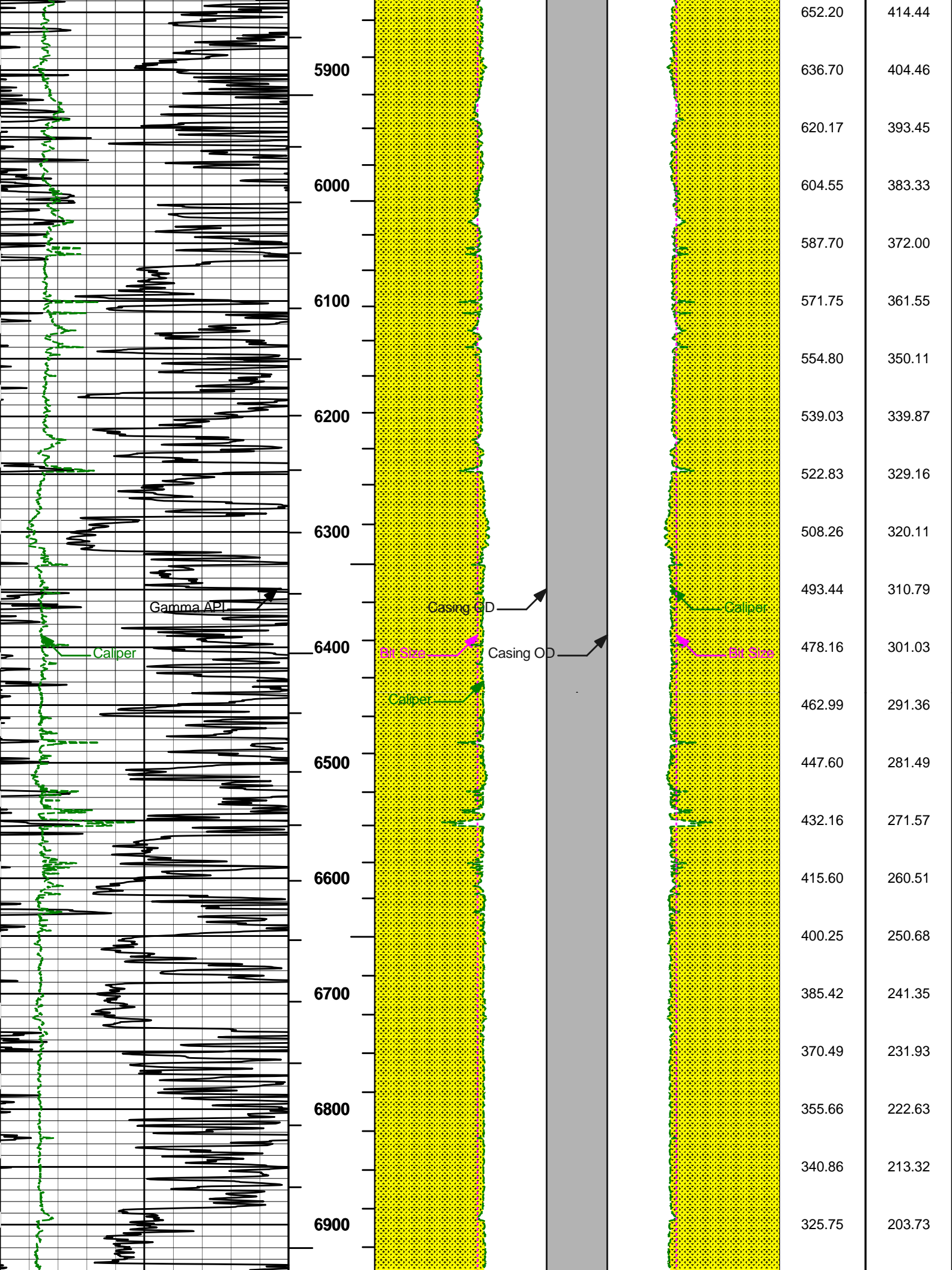
	AHVT	16	Bit Size	0 0	Bit Size	16
			inches		inches	
Caliper						

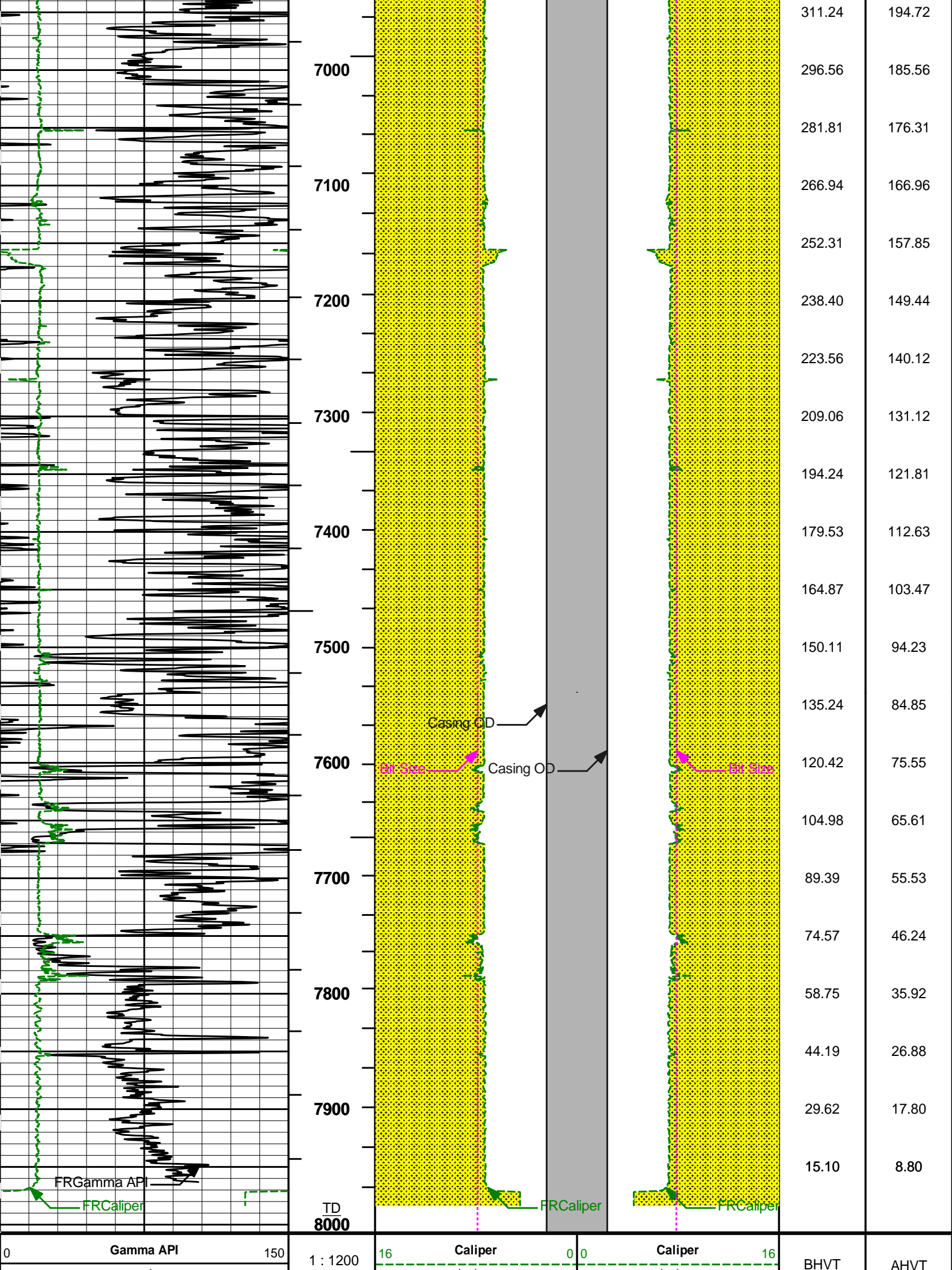


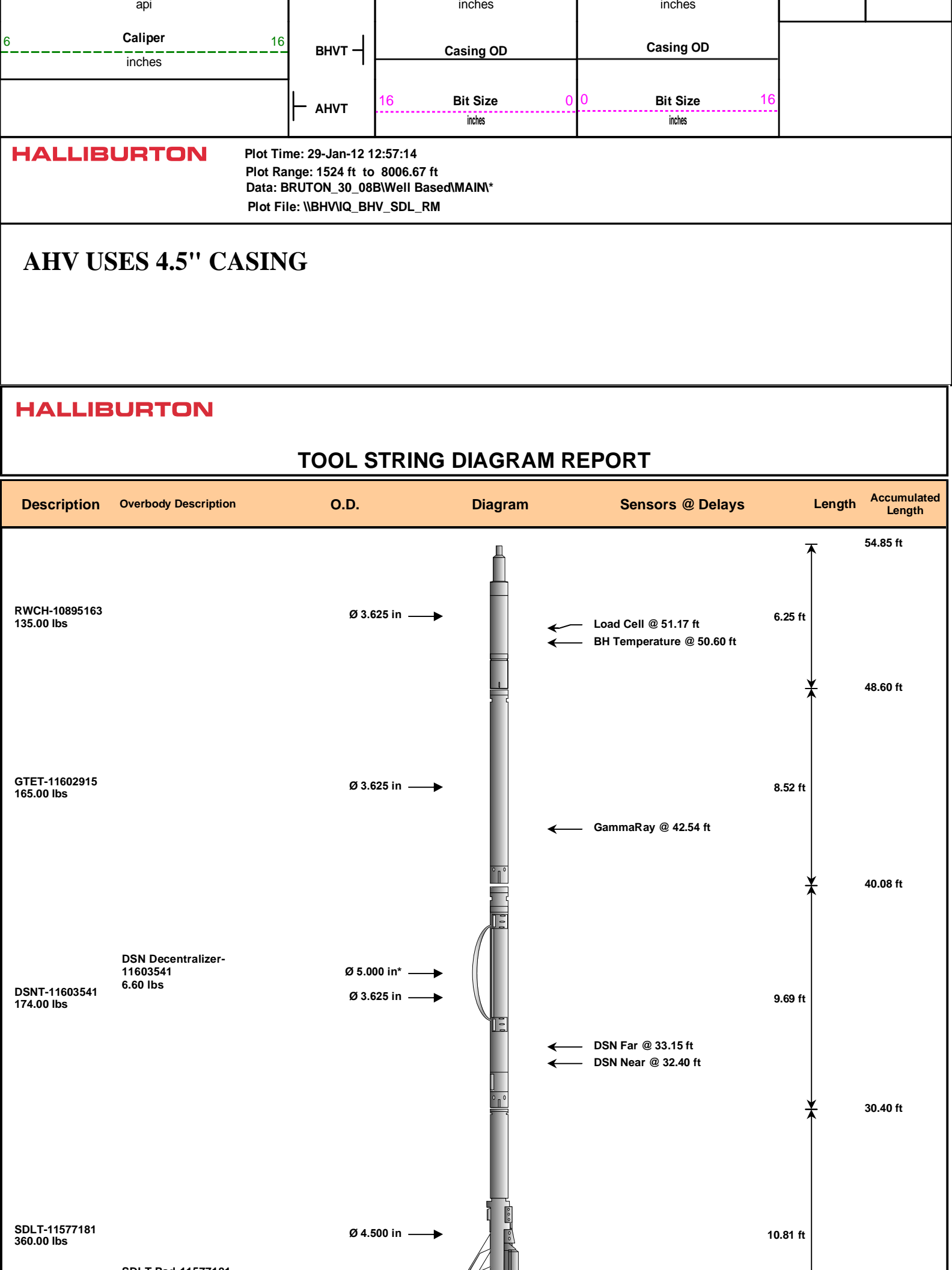


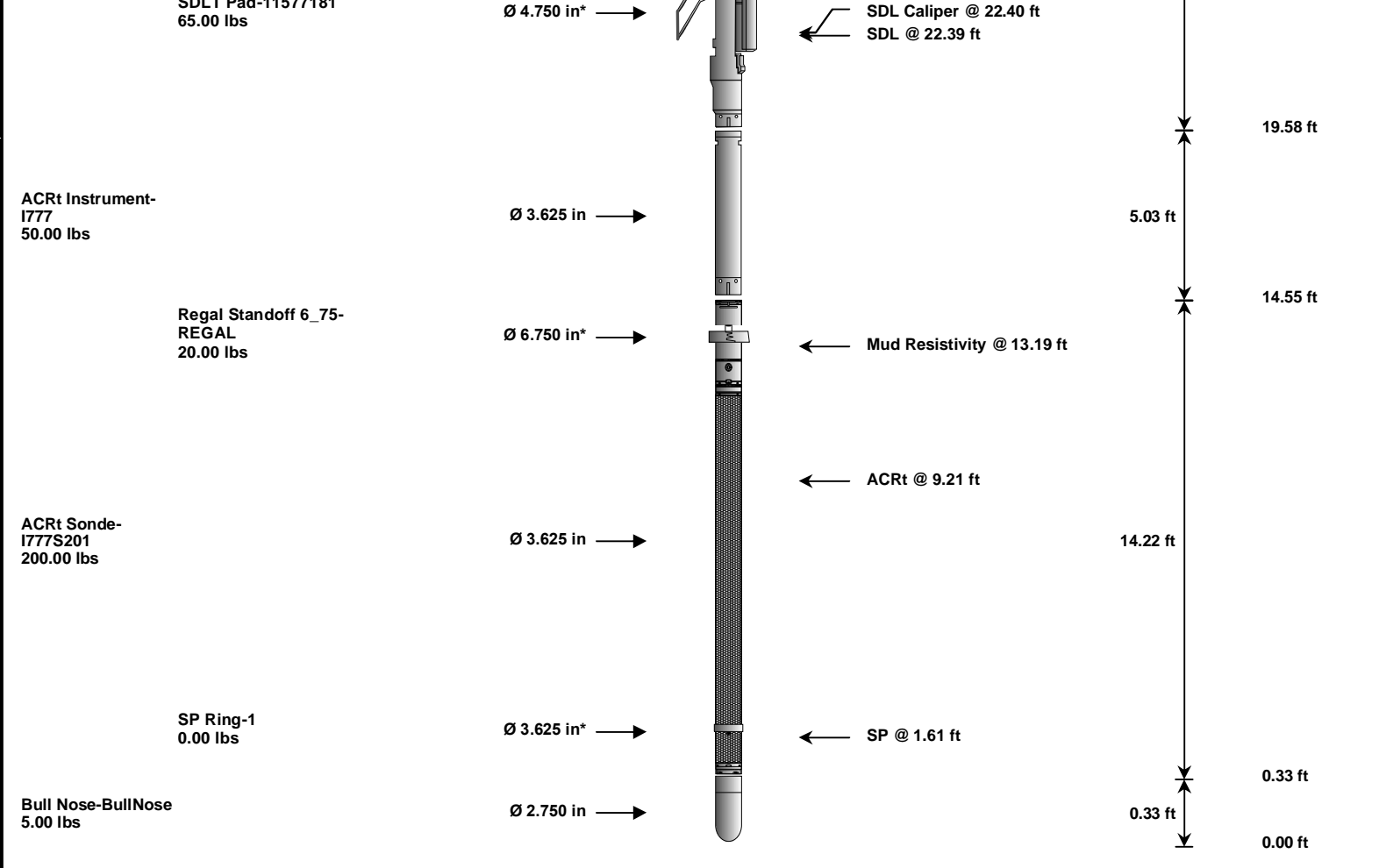












Mnemonic		Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head		10895163	135.00	6.25	48.60	300.00
GTET	Gamma Telemetry Tool		11602915	165.00	8.52	40.08	60.00
DSNT	Dual Spaced Neutron		11603541	174.00	9.69	30.40	60.00
DCNT	DSN Decentralizer		11603541	6.60	5.13	* 33.73	300.00
SDLT	Spectral Density Tool		11577181	360.00	10.81	19.58	60.00
SDLP	Density Insite Pad		11577181	65.00	2.55	* 21.79	60.00
ACRt	Array Compensated True Resistivity Instrument Section		I777	50.00	5.03	14.55	300.00
ACRt	Array Compensated True Resistivity		I777S201	200.00	14.22	0.33	300.00
SP	SP Ring		1	0.00	0.25	* 1.61	300.00
RSOF	Regal Standoff 6.75in		REGAL	20.00	0.52	* 13.24	300.00
BLNS	Bull Nose		BullNose	5.00	0.33	0.00	300.00
Total				1,180.60	54.85		
							* Not included in Total Length and Length Accumulation.
Data: BRUTON_30_08B\0001 TRIPLE_ACRT\IDLE						Date: 29-Jan-12 09:40:52	

COMPANY	LARAMIE ENERGY		
WELL	BRUTON 30-08B		
FIELD	BRUSH CREEK		
COUNTY	MESA	STATE	CO
HALLIBURTON		BOREHOLE VOLUME PLOT	