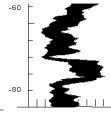


**ABS**

Advanced Borehole Services



# GAMMA RAY (API)-CALIPER

## OSF-112-

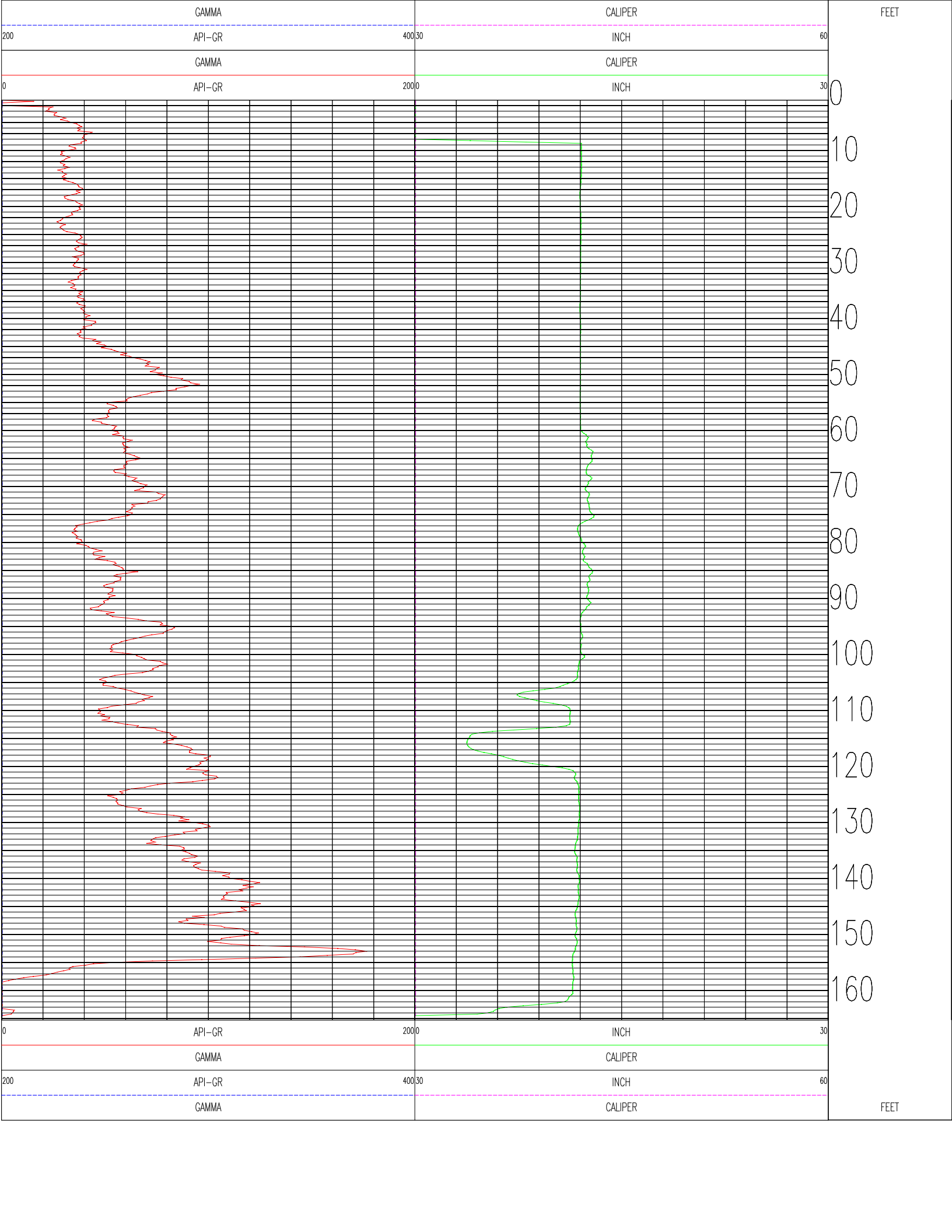
COMPANY	: HUSS DRILLING	OTHER SERVICES: 8044 .9320
WELL	: OSF-112-	
FIELD	: TOHO	
COUNTY	: OSCEOLA	
STATE	: FLORIDA	

LOCATION	:
SECTION	: None
TOWNSHIP	: None
RANGE	: None
API NO.	:
UNIQUE WELL ID.	:

PERMANENT DATUM	: MSL	ELEVATION KB:	None
LOG MEASURED FROM:	GS	ELEVATION DF:	NA
DRL MEASURED FROM:	NA	ELEVATION GL:	NA

DATE	: 10/17/17
DEPTH DRILLER	: 169
BIT SIZE	: 6
LOG TOP	: 1.00
LOG BOTTOM	: 165.00
CASING OD	:
CASING BOTTOM	: 60
CASING TYPE	: STEEL
BOREHOLE FLUID	: MUD
RM TEMPERATURE	: 0
MUD RES	: 0
MUD WEIGHT	:
WITNESSED BY	:
RECORDED BY	: AFB
REMARKS 1	: MUDDER PILOT
REMARKS 2	:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

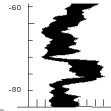


TOOL CALIBRATION OSF-112- 10/17/17 10:11  
 TOOL 9074A1 TM VERSION 0  
 SERIAL NUMBER 857

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Jan12,03	07:10:06	GAMMA	Default	[CPS]	Default	[CPS]
	Jan12,03	04:10:06	GAMMA	180.000	[API-GR ]	205.00	[CPS]
2	May11,17	21:01:04	CALIPER	3.000	[INCH ]	156245.00	[CPS]
	May11,17	21:01:04	CALIPER	5.000	[INCH ]	150790.00	[CPS]
3	Oct16,17	15:53:00	CALIPERL	4.000	[INCH ]	156269.00	[CPS]
	Oct16,17	15:53:00	CALIPERL	35.500	[INCH ]	86954.00	[CPS]
4	Dec13,00	22:19:45	CALIPERX	Default	[CPS]	Default	[CPS]
	Dec13,00	22:19:45	CALIPERX	Default	[CPS]	Default	[CPS]

**ABS**

Advanced Borehole Services



# GAMMA RAY-RESISTIVITY (16-64)

## OSF-112-

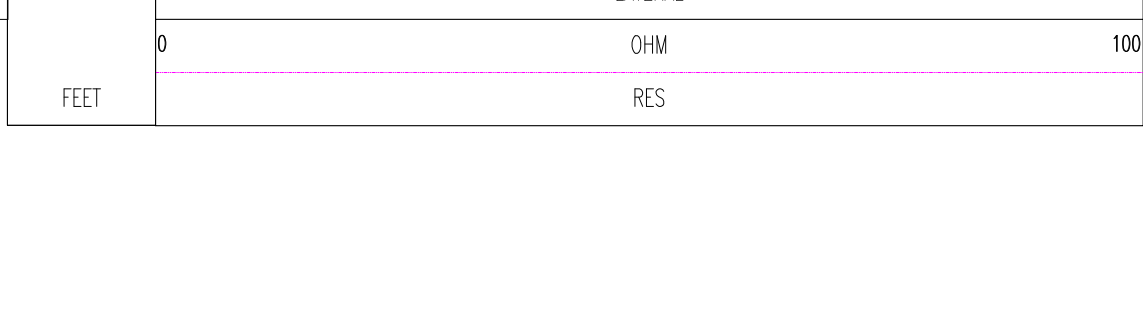
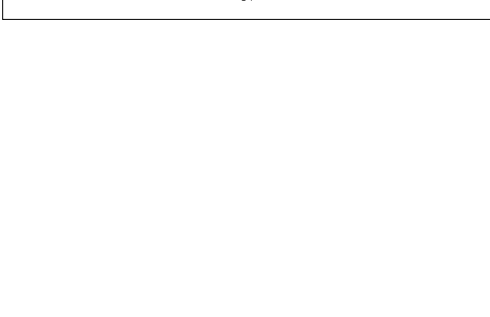
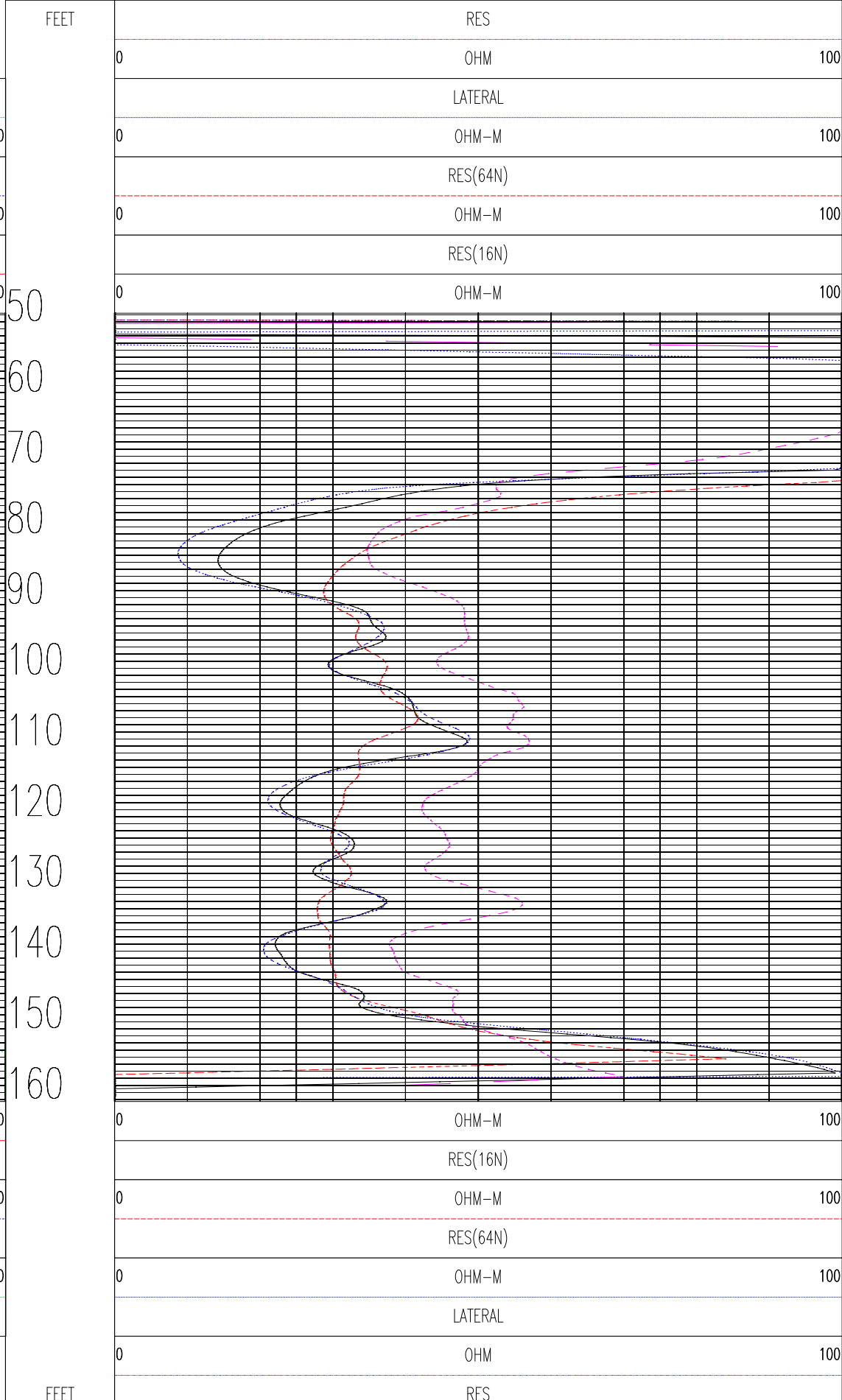
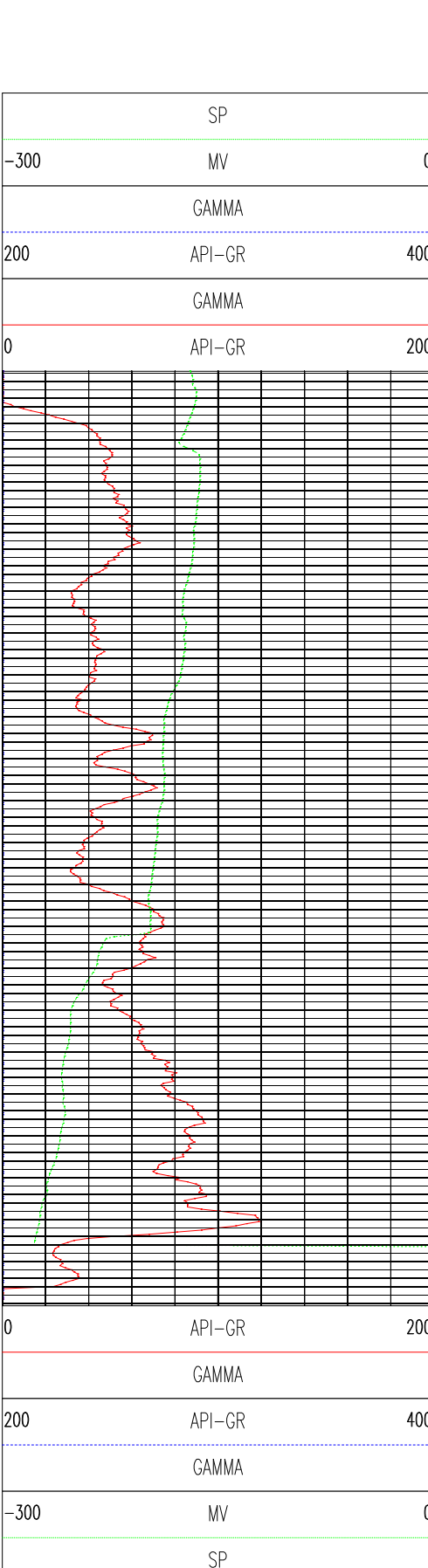
COMPANY	: HUSS DRILLING	OTHER SERVICES: 8044 .9320
WELL	: OSF-112-	
FIELD	: TOHO	
COUNTY	: OSCEOLA	
STATE	: FLORIDA	

LOCATION	:
SECTION	: None
TOWNSHIP	: None
RANGE	: None
API NO.	:
UNIQUE WELL ID.	:

PERMANENT DATUM	: MSL	ELEVATION KB:	None
LOG MEASURED FROM:	GS	ELEVATION DF:	NA
DRL MEASURED FROM:	NA	ELEVATION GL:	NA

DATE	: 10/17/17
DEPTH DRILLER	: 169
BIT SIZE	: 6
LOG TOP	: 50.75
LOG BOTTOM	: 162.00
CASING OD	:
CASING BOTTOM	: 60
CASING TYPE	: STEEL
BOREHOLE FLUID	: MUD
RM TEMPERATURE	: 0
MUD RES	: 0
MUD WEIGHT	:
WITNESSED BY	:
RECORDED BY	: AFB
REMARKS 1	: MUDDER PILOT
REMARKS 2	:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



FEET

50

60

70

80

90

100

110

120

130

140

150

160

FEET

TOOL CALIBRATION OSF-112- 10/17/17 10:52

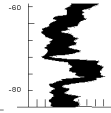
TOOL 8044A TM VERSION 0

SERIAL NUMBER 938

	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jan03,03	10:49:05	GAMMA	0.001 [API-GR ]	0.00 [CPS]
	Jan03,03	07:49:05	GAMMA	180.000 [API-GR ]	169.00 [CPS]
2	May16,17	19:08:20	RES(FL)	41.600 [OHM-M ]	54104.00 [CPS]
	May16,17	19:08:20	RES(FL)	0.100 [OHM-M ]	11978.00 [CPS]
3	Aug17,14	17:00:23	SP	0.000 [MV ]	59670.00 [CPS]
	Aug17,14	17:00:23	SP	395.000 [MV ]	23612.00 [CPS]
4	Jul25,17	06:42:26	RES(16N)	0.000 [OHM-M ]	4284.00 [CPS]
	Jul25,17	06:42:26	RES(16N)	1996.000 [OHM-M ]	138447.00 [CPS]
5	Jul25,17	06:42:50	RES(64N)	0.000 [OHM-M ]	4160.00 [CPS]
	Jul25,17	06:42:50	RES(64N)	1990.000 [OHM-M ]	176008.00 [CPS]
6	Aug17,14	17:19:05	TEMP	71.700 [DEG F ]	63355.00 [CPS]
	Aug17,14	17:19:05	TEMP	81.500 [DEG F ]	58740.00 [CPS]
7	Aug17,14	15:39:11	RES	0.000 [OHM ]	9855.00 [CPS]
	Aug17,14	15:39:11	RES	988.000 [OHM ]	58788.00 [CPS]

**ABS**

Advanced Borehole Services



## FULL WAVE BHC ACOUSTIC-VDL

OSF-112-

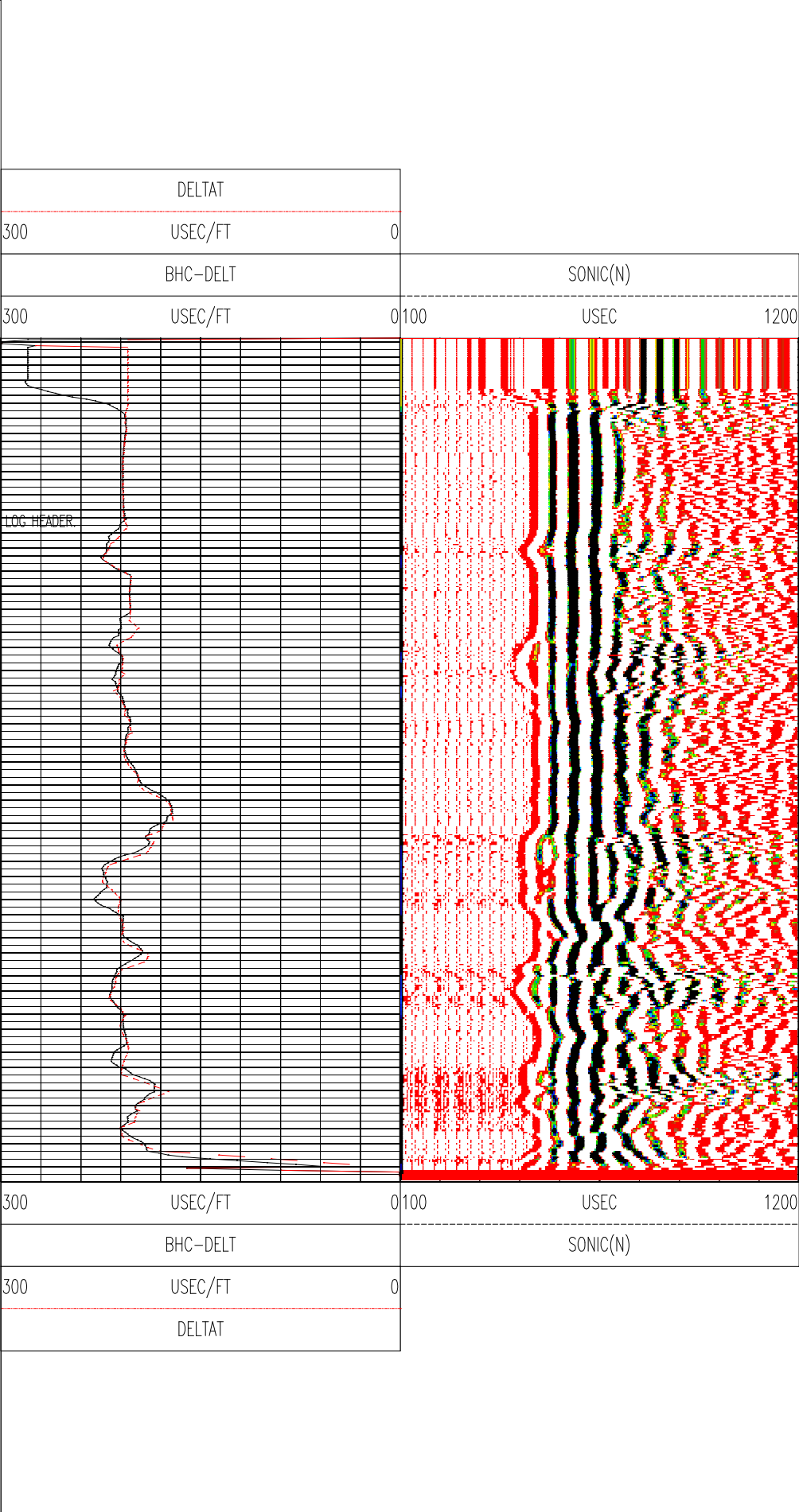
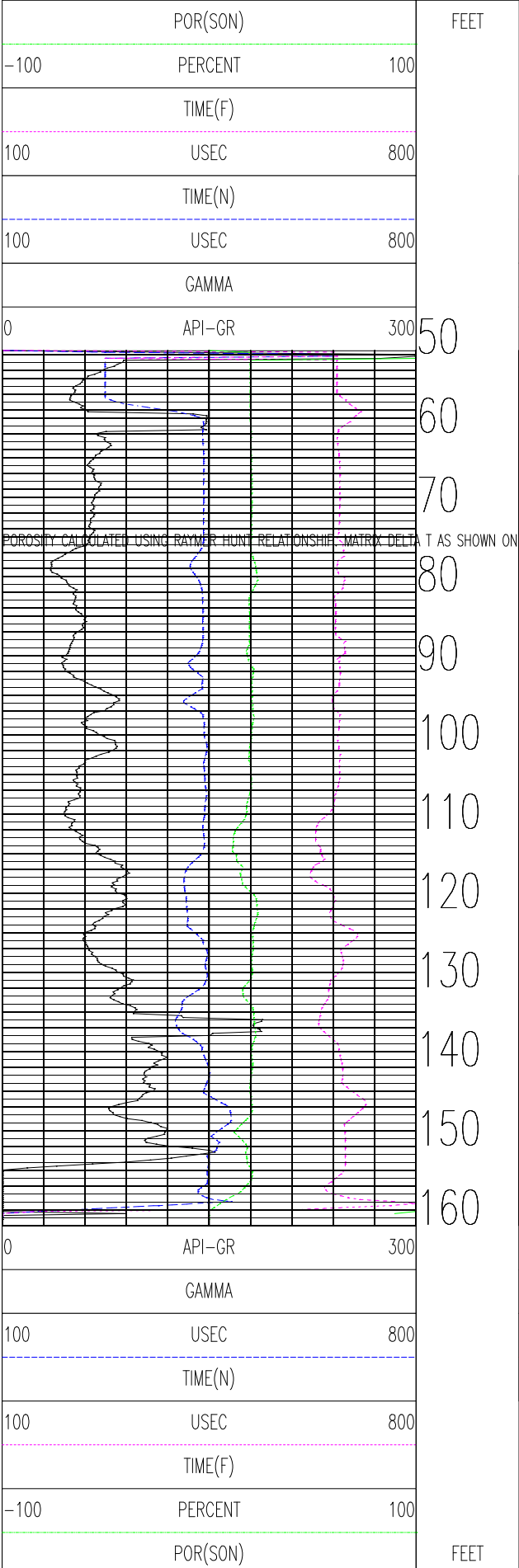
COMPANY	: HUSS DRILLING	OTHER SERVICES: 8044 .9320
WELL	: OSF-112-	
FIELD	: TOHO	
COUNTY	: OSCEOLA	
STATE	: FLORIDA	

LOCATION	:
SECTION	: None
TOWNSHIP	: None
RANGE	: None
API NO.	:
UNIQUE WELL ID.	:

PERMANENT DATUM	: MSL	ELEVATION KB:	None
LOG MEASURED FROM:	GS	ELEVATION DF:	NA
DRL MEASURED FROM:	NA	ELEVATION GL:	NA

DATE	: 10/17/17
DEPTH DRILLER	: 169
BIT SIZE	: 6
LOG TOP	: 51.50
LOG BOTTOM	: 161.75
CASING OD	:
CASING BOTTOM	: 60
CASING TYPE	: STEEL
BOREHOLE FLUID	: MUD
RM TEMPERATURE	: 0
MUD RES	: 0
MUD WEIGHT	:
WITNESSED BY	:
RECORDED BY	: AFB
REMARKS 1	: MUDDER PILOT
REMARKS 2	:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



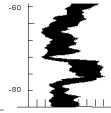


TOOL CALIBRATION OSF-112- 10/17/17 11:12  
TOOL 9320A2 TM VERSION 0  
SERIAL NUMBER 667

	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Apr12,99	23:12:30	GAMMA	Default [CPS]	Default [CPS]
	Apr12,99	20:12:30	GAMMA	Default [CPS]	Default [CPS]

**ABS**

Advanced Borehole Services



# GAMMA RAY (API)-CALIPER

## TOHO WELL OSF-112

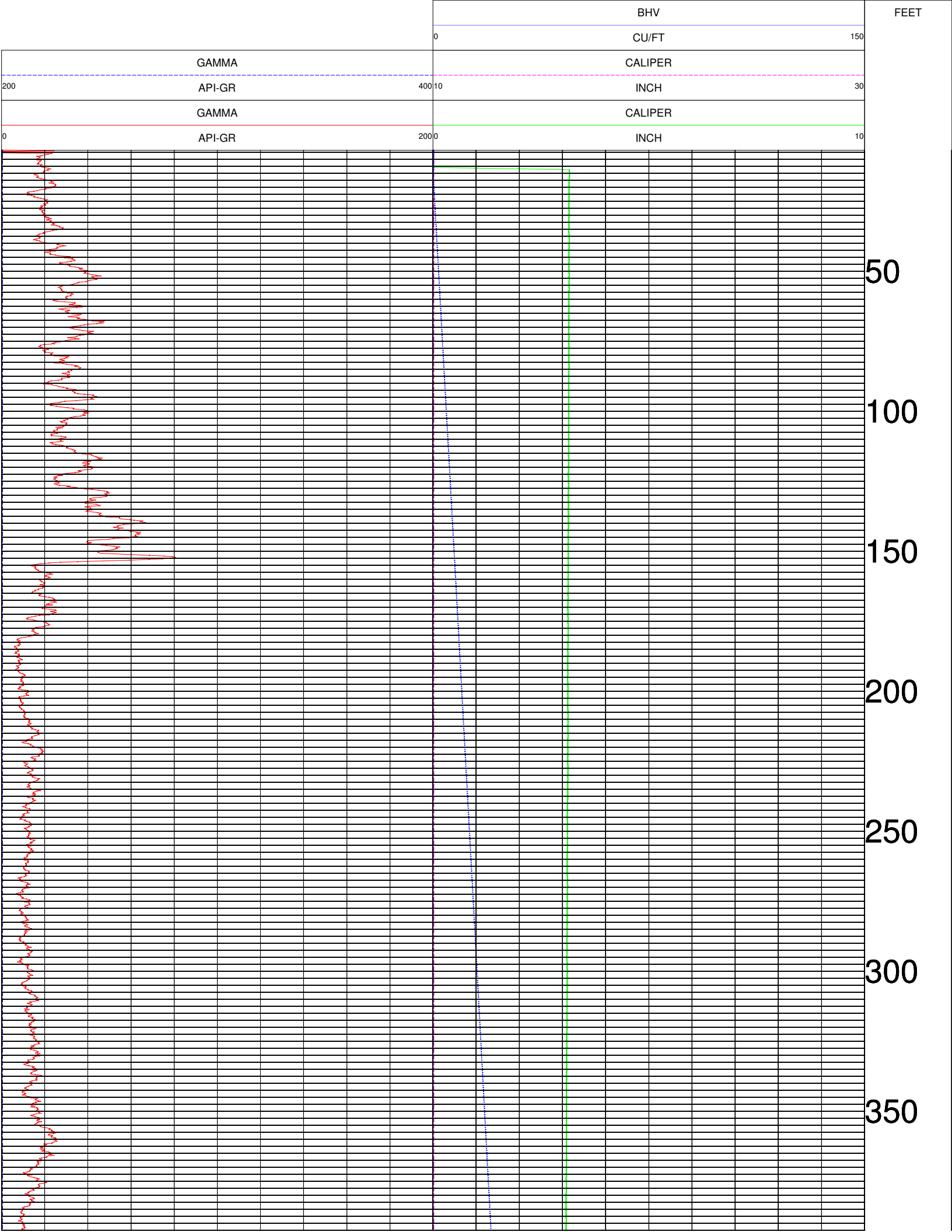
COMPANY	: HUSS DRILLING	OTHER SERVICES: LOWER S
WELL	: TOHO WELL OSF-112	
FIELD	: ST CLOUD	
COUNTY	: OSCEOLA	
STATE	: FLORIDA	

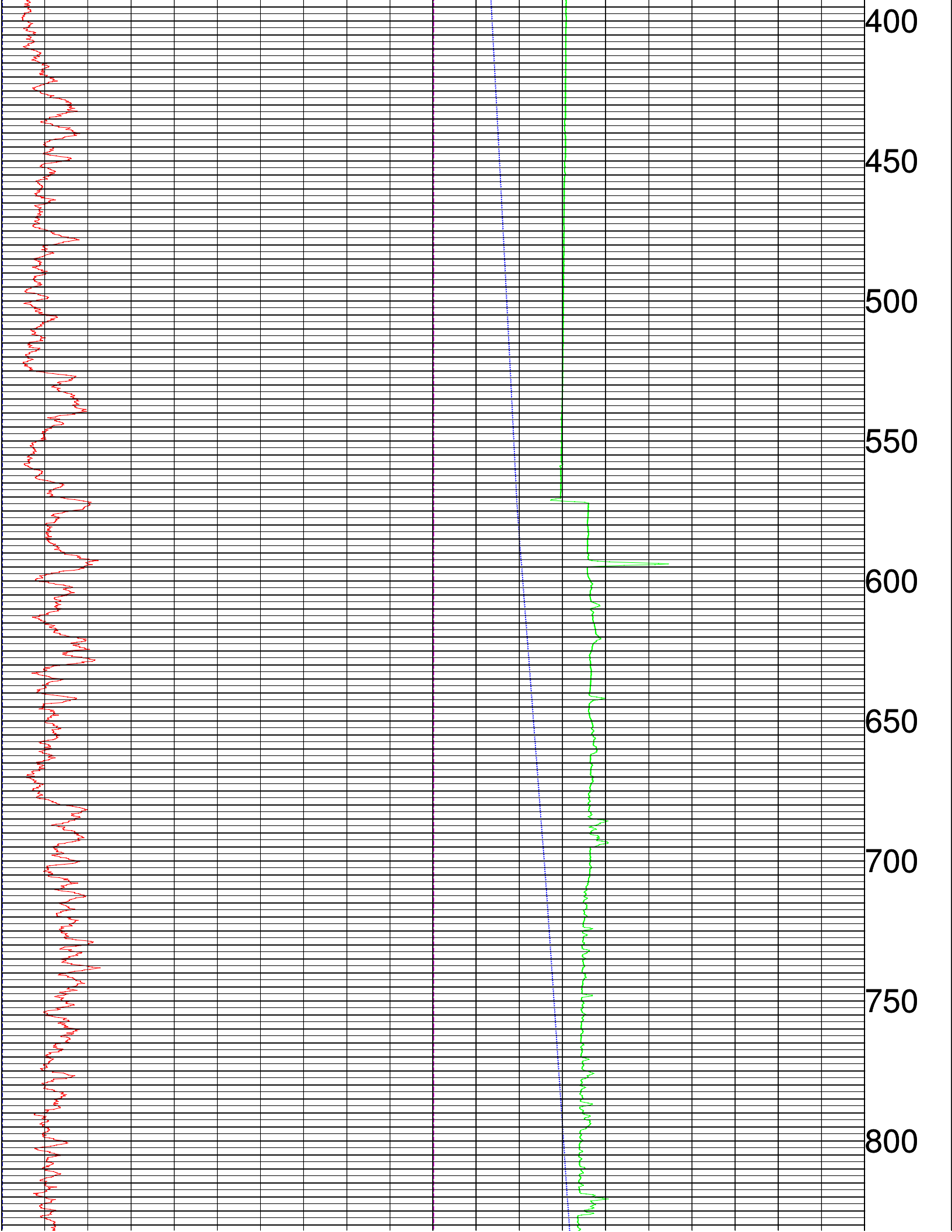
LOCATION	:
SECTION	: None
TOWNSHIP	: None
RANGE	: None
API NO.	:
UNIQUE WELL ID.	:

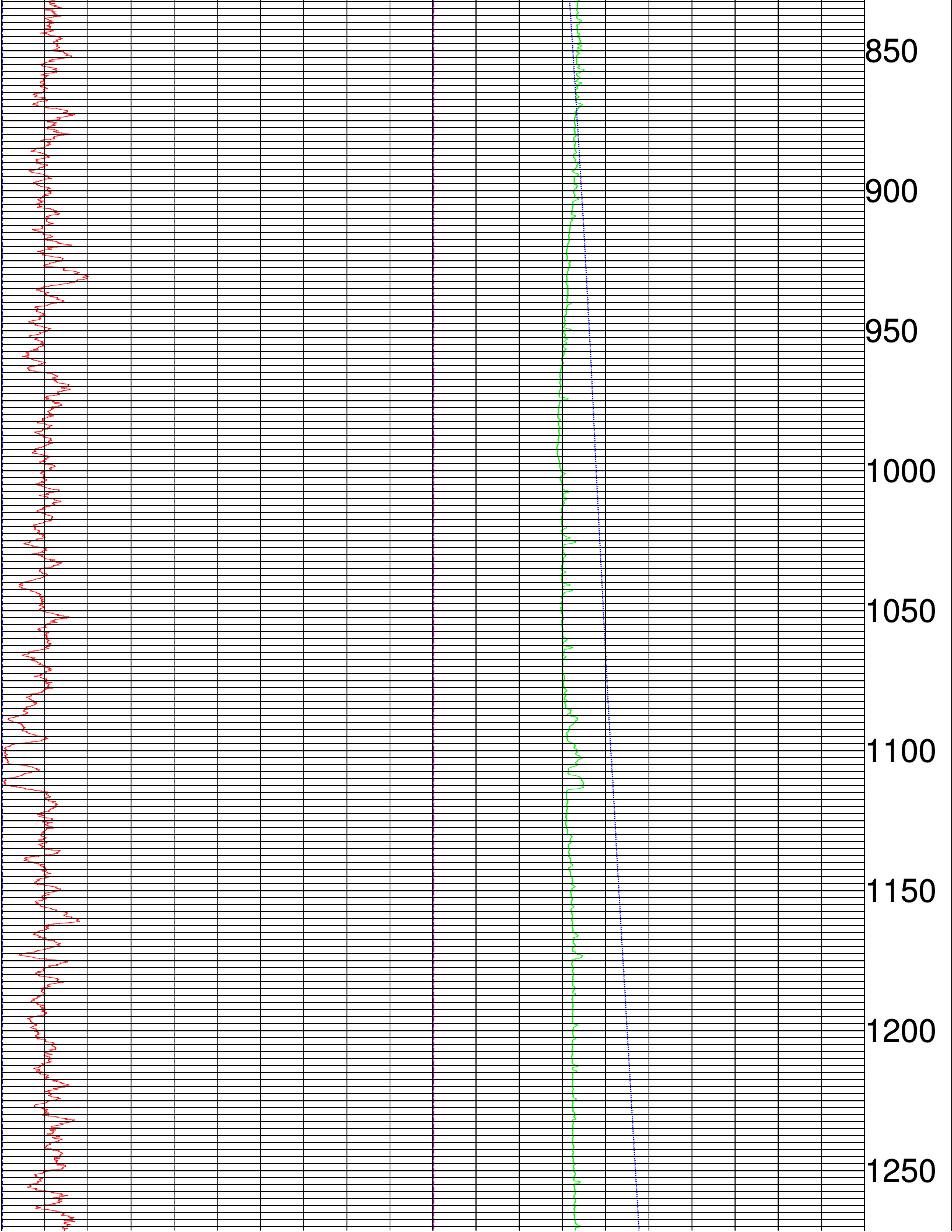
PERMANENT DATUM	: MSL	ELEVATION KB:	None
LOG MEASURED FROM:	GS	ELEVATION DF:	NA
DRL MEASURED FROM:	NA	ELEVATION GL:	NA

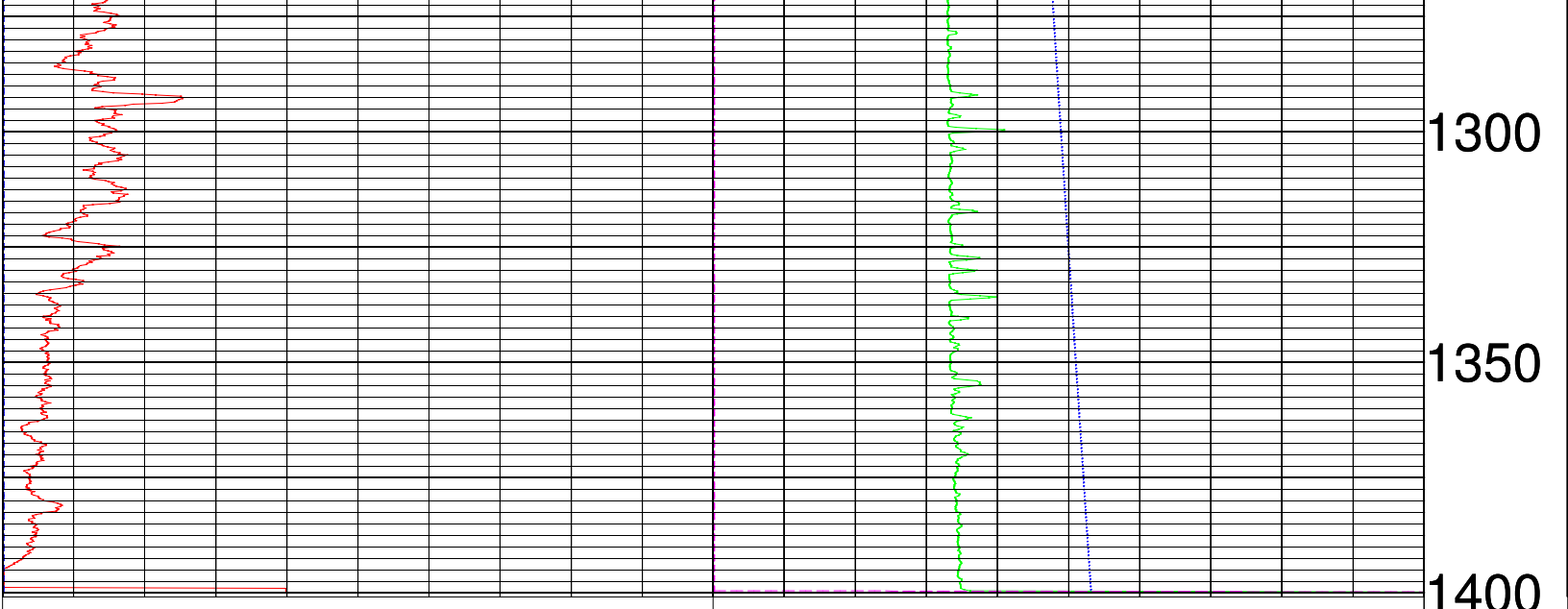
DATE	: 01/09/18
DEPTH DRILLER	: 1400
BIT SIZE	: 6
LOG TOP	: 6.75
LOG BOTTOM	: 1400.50
CASING OD	:
CASING BOTTOM	: 570
CASING TYPE	: STEEL
BOREHOLE FLUID	: FOR
RM TEMPERATURE	: 0
MUD RES	: 0
MUD WEIGHT	:
WITNESSED BY	:
RECORDED BY	: AFB
REMARKS 1	: .
REMARKS 2	:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS









0	API-GR	200	0	INCH	10
	GAMMA			CALIPER	
200	API-GR	400	10	INCH	30
	GAMMA			CALIPER	
			0	CU/FT	150
				BHV	

TOOL CALIBRATION TOHO WELL OSF-112 01/09/18 10:08

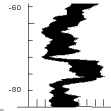
TOOL 9074A TM VERSION 0

SERIAL NUMBER 857

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Jan12,03	07:10:06	GAMMA	Default	[CPS]	Default	[CPS]
	Jan12,03	04:10:06	GAMMA	180.000	[API-GR ]	205.00	[CPS]
2	Jan09,18	14:50:00	CALIPER	3.000	[INCH ]	157313.00	[CPS]
	Jan09,18	14:50:00	CALIPER	5.000	[INCH ]	150790.00	[CPS]
3	Dec27,17	20:57:41	CALIPERL	6.000	[INCH ]	153523.00	[CPS]
	Dec27,17	20:57:41	CALIPERL	35.500	[INCH ]	86954.00	[CPS]
4	Dec13,00	22:19:45	CALIPERX	Default	[CPS]	Default	[CPS]
	Dec13,00	22:19:45	CALIPERX	Default	[CPS]	Default	[CPS]

**ABS**

Advanced Borehole Services



# COMBINATION LOG STATIC WATER QUAL. TOHO WELL OSF-112

COMPANY	: HUSS DRILLING	OTHER SERVICES: LOWER S
WELL	: TOHO WELL OSF-112	
FIELD	: ST CLOUD	
COUNTY	: OSCEOLA	
STATE	: FLORIDA	

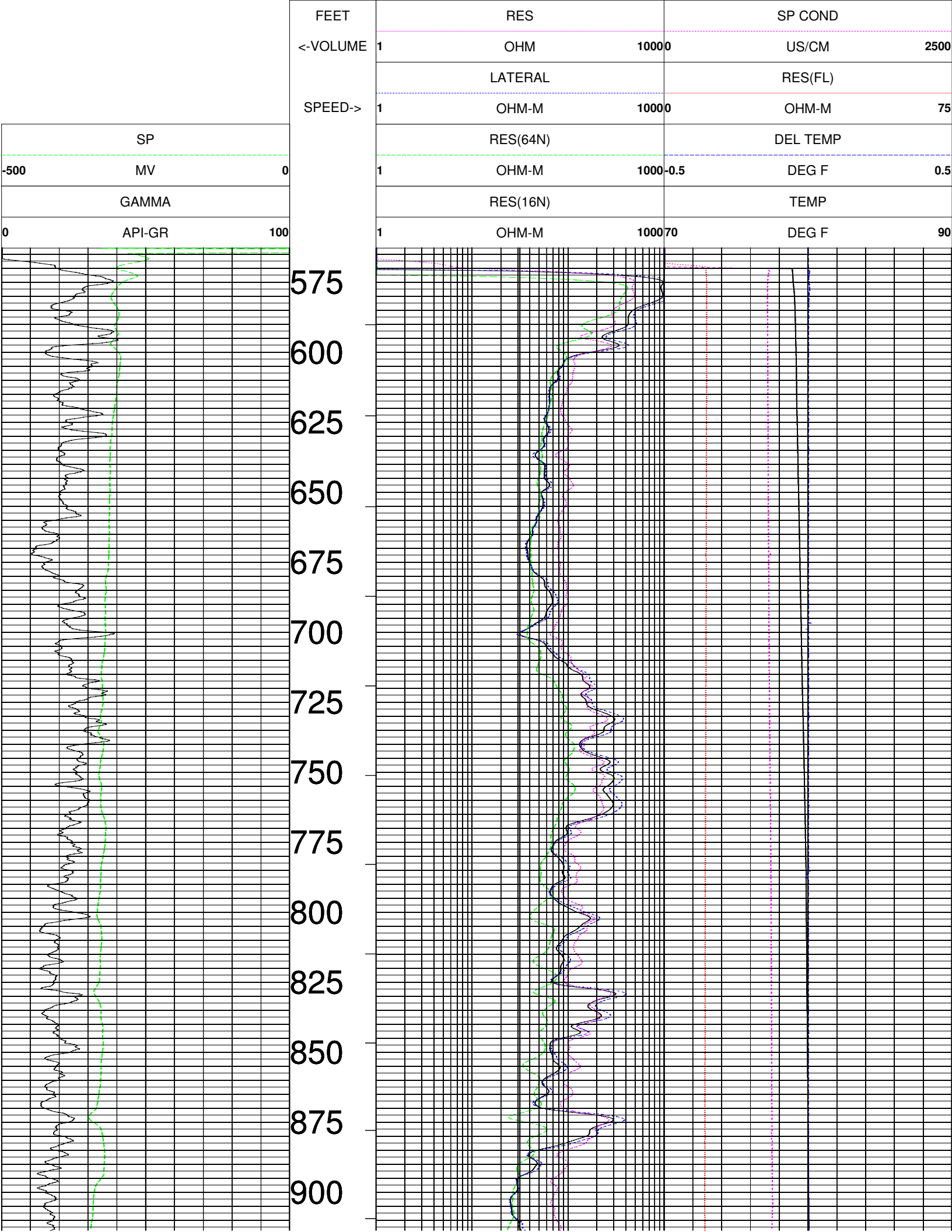
LOCATION	:
SECTION	: None
TOWNSHIP	: None
RANGE	: None
API NO.	:
UNIQUE WELL ID.	:

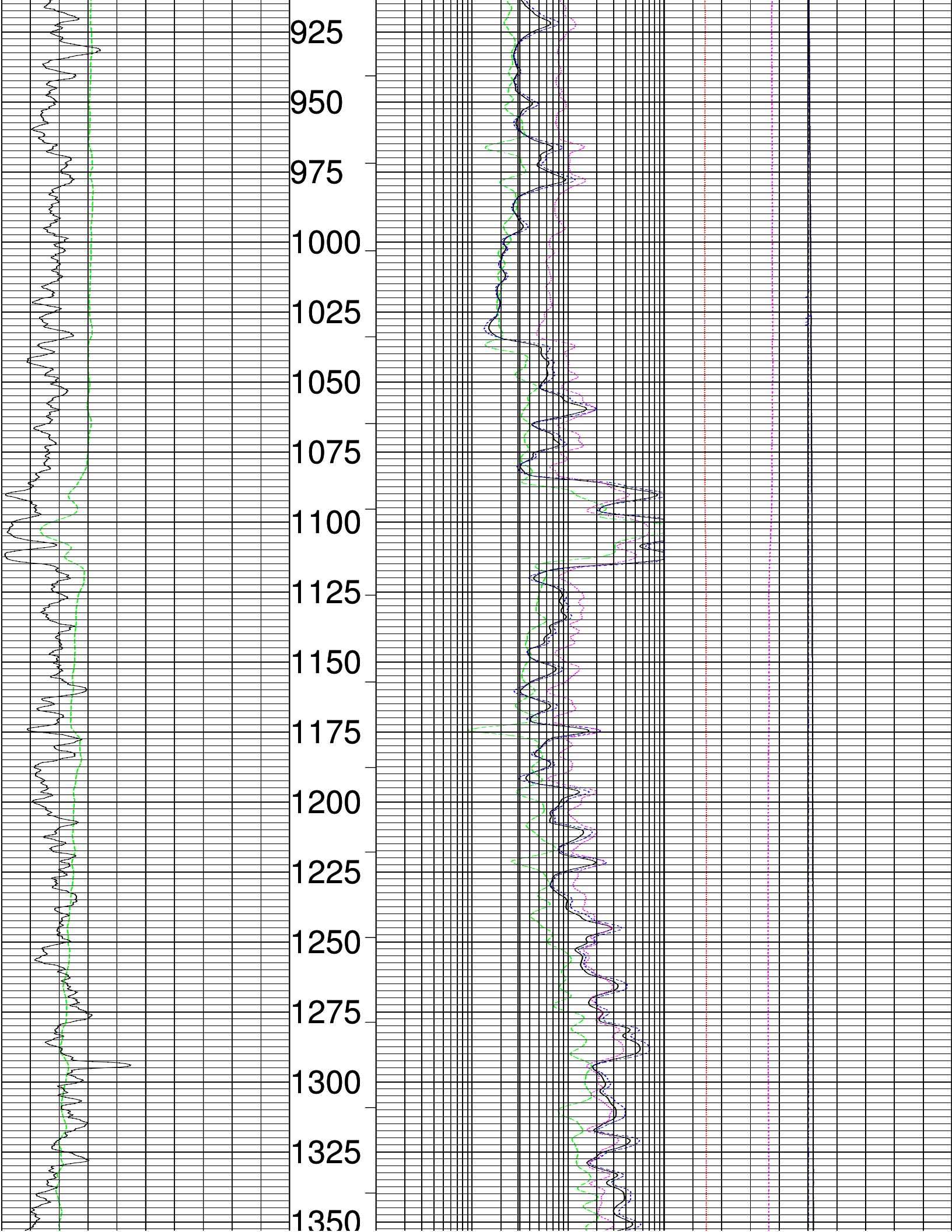
PERMANENT DATUM	: MSL	ELEVATION KB: None
LOG MEASURED FROM:	: GS	ELEVATION DF: NA
DRL MEASURED FROM:	: NA	ELEVATION GL: NA

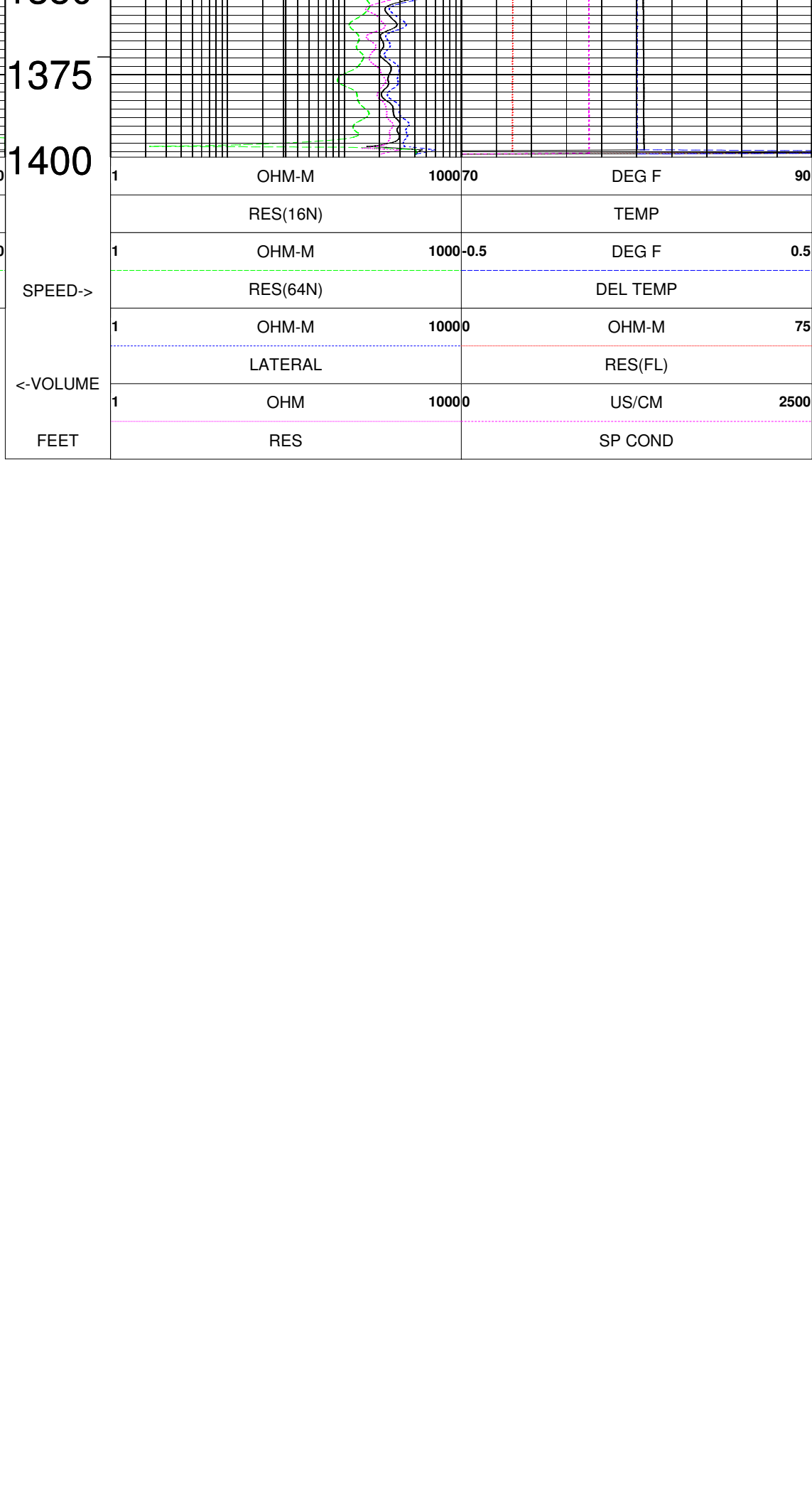
DATE	: 01/09/18
DEPTH DRILLER	: 1400
BIT SIZE	: 6
LOG TOP	: 562.75
LOG BOTTOM	: 1398.75
CASING OD	:
CASING BOTTOM	: 570
CASING TYPE	: STEEL
BOREHOLE FLUID	: FOR
RM TEMPERATURE	: 0
MUD RES	: 0
MUD WEIGHT	:
WITNESSED BY	:
RECORDED BY	: AFB
REMARKS 1	: .
REMARKS 2	:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS









0	API-GR	100
	GAMMA	
-500	MV	0
	SP	

1	OHM-M	1000	70	DEG F	90
	RES(16N)			TEMP	
1	OHM-M	1000	0.5	DEG F	0.5
	RES(64N)			DEL TEMP	

SPEED->

<-VOLUME

FEET

1	OHM-M	10000		OHM-M	75
	LATERAL			RES(FL)	
1	OHM	10000		US/CM	2500
	RES			SP COND	

TOOL CALIBRATION TOHO WELL OSF-112 01/09/18 08:38

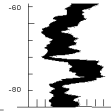
TOOL 8044A TM VERSION 0

SERIAL NUMBER 938

	DATE	TIME	SENSOR		STANDARD		RESPONSE
1	Jan03,03	10:49:05	GAMMA	0.001	[API-GR ]	0.00	[CPS]
	Jan03,03	07:49:05	GAMMA	180.000	[API-GR ]	169.00	[CPS]
2	May16,17	19:08:20	RES(FL)	41.600	[OHM-M ]	54104.00	[CPS]
	May16,17	19:08:20	RES(FL)	0.100	[OHM-M ]	11978.00	[CPS]
3	Aug17,14	17:00:23	SP	0.000	[MV ]	59670.00	[CPS]
	Aug17,14	17:00:23	SP	395.000	[MV ]	23612.00	[CPS]
4	Jul25,17	06:42:26	RES(16N)	0.000	[OHM-M ]	4284.00	[CPS]
	Jul25,17	06:42:26	RES(16N)	1996.000	[OHM-M ]	138447.00	[CPS]
5	Jul25,17	06:42:50	RES(64N)	0.000	[OHM-M ]	4160.00	[CPS]
	Jul25,17	06:42:50	RES(64N)	1990.000	[OHM-M ]	176008.00	[CPS]
6	Aug17,14	17:19:05	TEMP	71.700	[DEG F ]	63355.00	[CPS]
	Aug17,14	17:19:05	TEMP	81.500	[DEG F ]	58740.00	[CPS]
7	Aug17,14	15:39:11	RES	0.000	[OHM ]	9855.00	[CPS]
	Aug17,14	15:39:11	RES	988.000	[OHM ]	58788.00	[CPS]

**ABS**

Advanced Borehole Services



# COMBINATION LOG STATIC WATER QUAL. TOHO WELL OSF-112

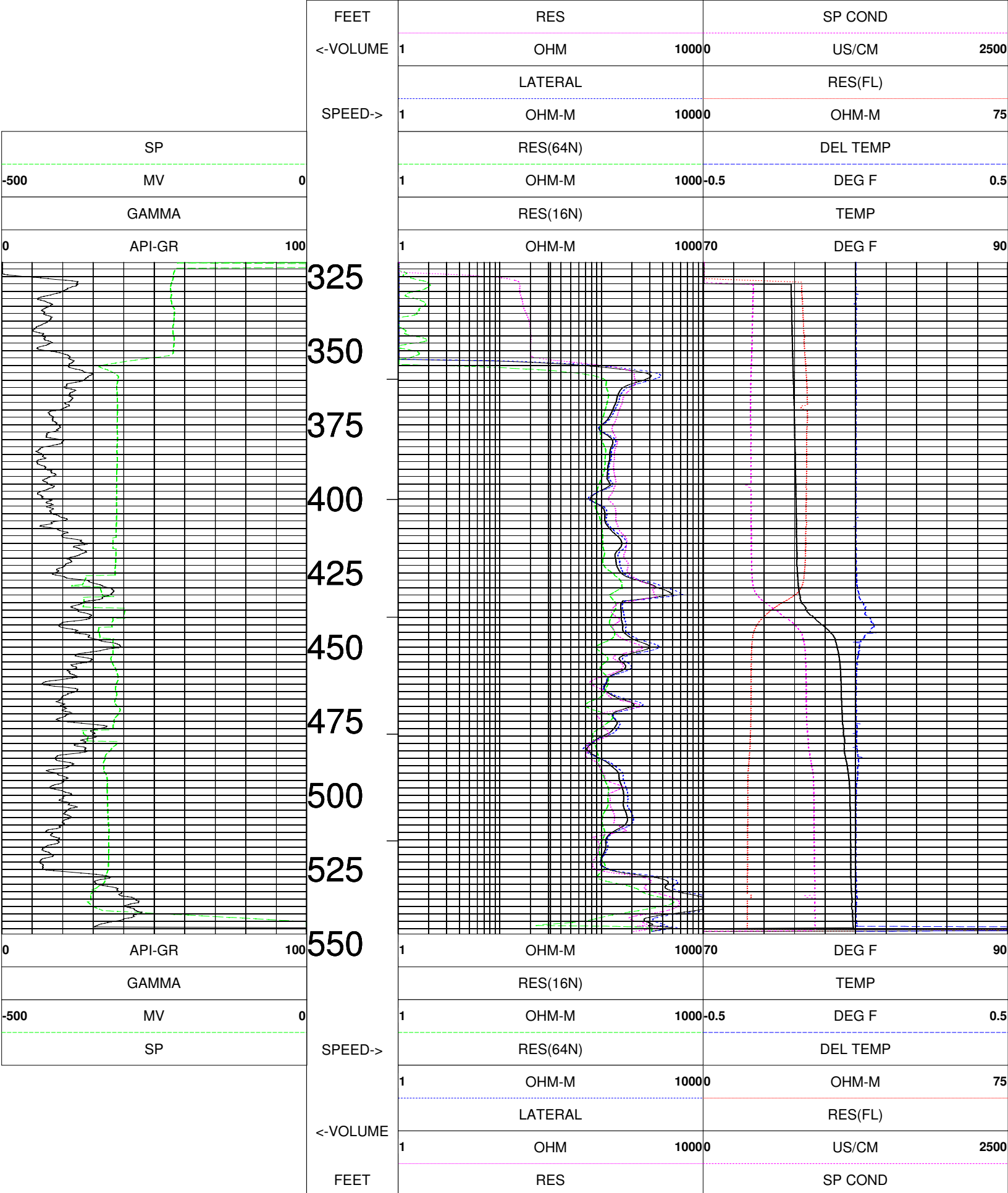
COMPANY	: HUSS DRILLING	OTHER SERVICES: VIDEO
WELL	: TOHO WELL OSF-112	
FIELD	: ST CLOUD	
COUNTY	: OSCEOLA	
STATE	: FLORIDA	

LOCATION	:
SECTION	: None
TOWNSHIP	: None
RANGE	: None
API NO.	:
UNIQUE WELL ID.	:

PERMANENT DATUM	: MSL	ELEVATION KB:	None
LOG MEASURED FROM:	GS	ELEVATION DF:	NA
DRL MEASURED FROM:	NA	ELEVATION GL:	NA

DATE	: 01/16/18
DEPTH DRILLER	: 1400
BIT SIZE	: 6
LOG TOP	: 320.25
LOG BOTTOM	: 546.50
CASING OD	:
CASING BOTTOM	: 570
CASING TYPE	: STEEL
BOREHOLE FLUID	: FOR
RM TEMPERATURE	: 0
MUD RES	: 0
MUD WEIGHT	:
WITNESSED BY	:
RECORDED BY	: AFB
REMARKS 1	: UPPER SEC
REMARKS 2	:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



TOOL CALIBRATION TOHO WELL OSF-112 01/16/18 10:51

TOOL 8044A TM VERSION 0

SERIAL NUMBER 938

	DATE	TIME	SENSOR		STANDARD		RESPONSE
1	Jan03,03	07:49:05	GAMMA	0.001	[API-GR ]	0.00	[CPS]
	Jan03,03	07:49:05	GAMMA	180.000	[API-GR ]	169.00	[CPS]
2	May16,17	19:08:20	RES(FL)	41.600	[OHM-M ]	54104.00	[CPS]
	May16,17	19:08:20	RES(FL)	0.100	[OHM-M ]	11978.00	[CPS]
3	Aug17,14	17:00:23	SP	0.000	[MV ]	59670.00	[CPS]
	Aug17,14	17:00:23	SP	395.000	[MV ]	23612.00	[CPS]
4	Jul25,17	06:42:26	RES(16N)	0.000	[OHM-M ]	4284.00	[CPS]
	Jul25,17	06:42:26	RES(16N)	1996.000	[OHM-M ]	138447.00	[CPS]
5	Jul25,17	06:42:50	RES(64N)	0.000	[OHM-M ]	4160.00	[CPS]
	Jul25,17	06:42:50	RES(64N)	1990.000	[OHM-M ]	176008.00	[CPS]
6	Aug17,14	17:19:05	TEMP	71.700	[DEG F ]	63355.00	[CPS]
	Aug17,14	17:19:05	TEMP	81.500	[DEG F ]	58740.00	[CPS]
7	Aug17,14	15:39:11	RES	0.000	[OHM ]	9855.00	[CPS]
	Aug17,14	15:39:11	RES	988.000	[OHM ]	58788.00	[CPS]