Baker Hughes | Baker Atlas

SEGMENTED BOND TOOL SM / VARIABLE DENSITY LOG / GAMMA RAY LOG

FILE NO:	COMPANY	INERGY MIDSTREAM, LLC.	
API NO: 31-097-12858-00-01	WELL	FINGER LAKES 57	
	FIELD	US SALT BRINE FIELD	
	COUNTY	SCHUYLER	STATE NEW YORK
	LOCATION:		OTHER SERVICES: NONE
Ver. 3.87			
MEASURED DEPTH	LAT 42.423021	LONG 76.896695	

PERMANENT DATUM	G.L.	ELEVATION 692 FT	ELEVATIONS: KB -
LOG MEASURED FROM	G.L.	0 FT ABOVE P.D.	DF -
DRILL MEAS. FROM	G.L.		GL 692 FT

DATE	21-SEP-2011	
RUN	1	TRIP 1
SERVICE ORDER	611427	
DEPTH DRILLER	2296 (CSG DEPTH)	
DEPTH LOGGER	NOT LOGGED	
BOTTOM LOGGED INTERVAL	2253 FT	
TOP LOGGED INTERVAL	0 FT	
TIME STARTED	17:00	
TIME FINISHED	20:00	
OPERATOR RIG TIME	3 HR	
TYPE OF FLUID IN HOLE	BRINE	
FLUID DENSITY	-	
FLUID SALINITY	300000 PPM	
FLUID LEVEL	N77 FT	
LOGGED CEMENT TOP	NL	
WELLHEAD PRESSURE	0 PSI	
MAXIMUM HOLE DEVIATION	0 DEG	
NOMINAL LOGGING SPEED	30 F/MN	
MAX. RECORDED TEMP.	NL	
REFERENCE LOG	1RST RUN OF WELL	
REFERENCE LOG DATE	1RST RUN OF WELL	
EQUIP. NO. / LOCATION	Z004288	MNT TOP, PA
RECORDED BY	GARCIA, JUAN	
WITNESSED BY	MOON, BARRY	

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

BOREHOLE RECORD		
BIT SIZE	FROM	TO

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
8.625 IN	32 LB/F	J-55	0 FT	2296 FT

REMARKS

RUN 1 TRIP 1 : OPERATION 2: GR-SBT-VDL-CCL

FLUID LEVEL AT XXXFT

CEMENT MAP WITH THE FOLLOWING PARAMETERS

CSG OD: 8.625"
CSG WEIGHT: 32#
CEMENT STRENGTH: 1500PSI

IT WAS NOT LOGGED BELLOW 2253 FT BECAUSE THE TOOL LOST TENSION.

RIG: BAKER HUGHES CRANE
CREW: S. HITE/ J. GARCIA /J. SCOTT/ J. LAUB

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	CCL	2346XA	Z081065	CENTRALIZED
1	1	GR	1309XA	Z078625	FREE
1	1	SBT ELE	1633EA	11803614	FREE
1	1	CENT	4341XA	Z183684	4 ARM
1	1	SBT	1424XB	Z118166	PAD DEVICE
1	1	VDL	1424PA	Z119582	FREE
1	1	CENT	4341XA	Z183684	4ARM

MAIN LOG 5"/100FT SCALE

ECLIPS 6.1l Aug 06, 2010 — Wed Sep 21 19:51:58 2011
Updates: 1,38,41

Pcrplt /main/62 — Cplot — Pdf_Cpp /main/16 — Fileview 5.51

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/INERGY_FINGER_LAKES_57_R1/m331d02.prm
LOGGING MODE: DEPTH — DIRECTION: UP
TOP DEPTH: 67.750 ft — BOTTOM DEPTH: 2264.270 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft) TOP	BOTTOM
GR	FILTER ()	medium (1)		TOP	BOTTOM
SBT	FILTER, 2pf	medium (1)		"	"
	FILTER, 4pf	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"

SBT PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft) TOP	BOTTOM
SBT	CASING OD	8.625	in	TOP	BOTTOM
	CASING WT	32.000	lbm/ft	"	"
	CORR. FACTOR 1	0.309	dB/ft	"	"
	CORR. FACTOR 2	-1.245	dB/ft	"	"
	CORR. FACTOR 3	-0.142	dB/ft	"	"
	CORR. FACTOR 4	0.013	dB/ft	"	"
	CORR. FACTOR 5	0.439	dB/ft	"	"
	CORR. FACTOR 6	0.626	dB/ft	"	"
	SPACING	0.687	ft	"	"
	SPREADING FACTOR	4.369	dB/ft	"	"
	CEMENT STRENGTH	1500	psi	"	"
	HI CUTOFF	8.061	dB/ft	"	"
	LOW CUTOFF	2.881	dB/ft	"	"

SBT NORMALIZATION RESULTS

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS
SBT	CORR. FACTOR1	0.257	dB/ft
	CORR. FACTOR2	-0.158	dB/ft
	CORR. FACTOR3	0.642	dB/ft
	CORR. FACTOR4	-0.396	dB/ft
	CORR. FACTOR5	-0.116	dB/ft
	CORR. FACTOR6	-0.229	dB/ft

FILE: /data/INERGY_FINGER_LAKES_57_R1/m331d02.sbt.qc.meta

CURVE DESCRIPTION REPORT

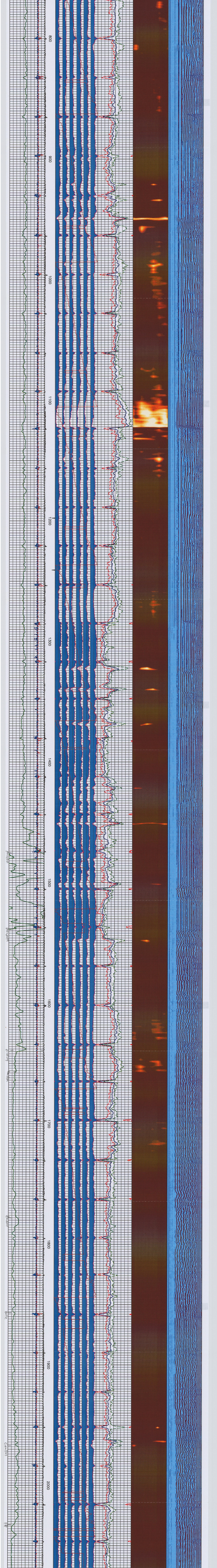
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:ATAV	Sep 21 18:15:43 2011	AVERAGE ATTENUATION
F1:ATC1	Sep 21 18:15:43 2011	ATTENUATION PAD 1
F1:ATC2	Sep 21 18:15:43 2011	ATTENUATION PAD 2
F1:ATC3	Sep 21 18:15:43 2011	ATTENUATION PAD 3
F1:ATC4	Sep 21 18:15:43 2011	ATTENUATION PAD 4
F1:ATC5	Sep 21 18:15:43 2011	ATTENUATION PAD 5
F1:ATC6	Sep 21 18:15:43 2011	ATTENUATION PAD 6
F1:ATMN	Sep 21 18:15:43 2011	ATTENUATION MINIMUM
F1:ATMX	Sep 21 18:15:43 2011	ATTENUATION MAXIMUM
F1:CCL	Sep 21 18:15:43 2011	CASING COLLAR LOCATOR
F1:CEMC	Sep 21 18:15:43 2011	CALIBRATED CEMENT MAP
F1:CYQ	Sep 21 18:15:43 2011	CYCLE QUALITY
F1:DTMN	Sep 21 18:15:43 2011	MINIMAL SLOWNESS
F1:DTMX	Sep 21 18:15:43 2011	MAXIMAL SLOWNESS
F1:GR	Sep 21 18:15:43 2011	GAMMA RAY
F1:RBSB	Sep 21 18:15:43 2011	RELATIVE BEARING (RELATIVE TO BOREHOLE LOW SIDE) FOR SBT
F1:TEN	Sep 21 18:15:43 2011	DIFFERENTIAL TENSION
F1:WAVE	Sep 21 18:15:43 2011	DIGITIZED WAVEFORM

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
ATAV	19.75	ATC4	19.75	ATMX	19.75	DTMX	19.75
ATC1	19.75	ATC5	19.75	CCL	52.00	GR	42.75
ATC2	19.75	ATC6	19.75	CYQ	19.75	RBSB	19.75
ATC3	19.75	ATMN	19.75	DTMN	19.75	TEN	0.00

Presentation : sys1:/data/INERGY_FINGER_LAKES_57_R1/SBT_MN.pdf [5"/100' Scale]
Plot Interval : 18.75 - 2264.75 Feet

Data File 1 : F1 : sys1:/data/INERGY_FINGER_LAKES_57_R1/m331d02.aff
Created On : Sep 21 18:15:43 2011
Company : INERGY MIDSTREAM, LLC
Well : FINGER LAKES 57
Field : US. SPH BRINE FIELD
File Interval : 18.75 - 2266 Feet
Oct : m331d



REPEAT LOG

ECLIPS 6.1l Aug 06, 2010 — Wed Sep 21 19:04:41 2011
Updates: 1,38,41

Pcrplt /main/62 — Cplot — Pdf_Cpp /main/16 — Fileview 5.51

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/INERGY_FINGER_LAKES_57_R1/m331d01.prm
LOGGING MODE: DEPTH — DIRECTION: DOWN
TOP DEPTH: 802.000 ft — BOTTOM DEPTH: 978.000 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft) TOP	BOTTOM
GR	FILTER ()	medium (1)		TOP	BOTTOM
SBT	FILTER, 2pf	medium (1)		"	"
	FILTER, 4pf	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"

SBT PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft) TOP	BOTTOM
SBT	CASING OD	8.625	in	TOP	BOTTOM
	CASING WT	40.000	lbm/ft	TOP	720.250
		32.000	lbm/ft	720.250	BOTTOM
	CORR. FACTOR 1	0.000	dB/ft	TOP	BOTTOM
	CORR. FACTOR 2	0.000	dB/ft	"	"
	CORR. FACTOR 3	0.000	dB/ft	"	"
	CORR. FACTOR 4	0.000	dB/ft	"	"
	CORR. FACTOR 5	0.000	dB/ft	"	"
	CORR. FACTOR 6	0.000	dB/ft	"	"
	SPACING	0.682	ft	TOP	720.250
		0.687	ft	720.250	BOTTOM
	SPREADING FACTOR	4.396	dB/ft	TOP	720.250
		4.369	dB/ft	720.250	BOTTOM
	CEMENT STRENGTH	1500	psi	TOP	BOTTOM
	HI CUTOFF	7.973	dB/ft	TOP	720.250
		8.061	dB/ft	720.250	BOTTOM
	LOW CUTOFF	3.679	dB/ft	TOP	720.250
		2.881	dB/ft	720.250	BOTTOM

SBT NORMALIZATION RESULTS

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS
SBT	CORR. FACTOR1	0.309	dB/ft
	CORR. FACTOR2	-1.245	dB/ft
	CORR. FACTOR3	-0.142	dB/ft
	CORR. FACTOR4	0.013	dB/ft
	CORR. FACTOR5	0.439	dB/ft
	CORR. FACTOR6	0.626	dB/ft

FILE: /data/INERGY_FINGER_LAKES_57_R1/m331d01.sbt.qc.meta

CURVE DESCRIPTION REPORT

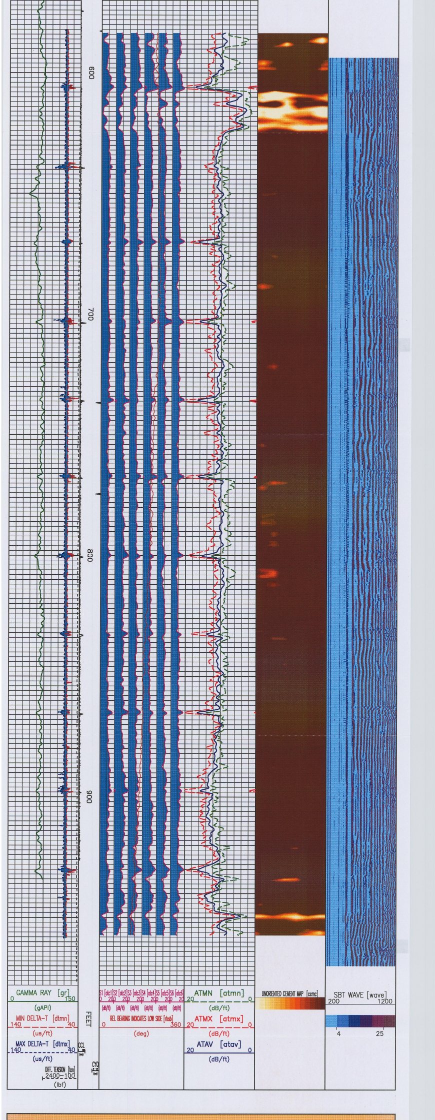
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:ATAV	Sep 21 17:46:34 2011	AVERAGE ATTENUATION
F1:ATC1	Sep 21 17:46:34 2011	ATTENUATION PAD 1
F1:ATC2	Sep 21 17:46:34 2011	ATTENUATION PAD 2
F1:ATC3	Sep 21 17:46:34 2011	ATTENUATION PAD 3
F1:ATC4	Sep 21 17:46:34 2011	ATTENUATION PAD 4
F1:ATC5	Sep 21 17:46:34 2011	ATTENUATION PAD 5
F1:ATC6	Sep 21 17:46:34 2011	ATTENUATION PAD 6
F1:ATMN	Sep 21 17:46:34 2011	ATTENUATION MINIMUM
F1:ATMX	Sep 21 17:46:34 2011	ATTENUATION MAXIMUM
F1:CCL	Sep 21 17:46:34 2011	CASING COLLAR LOCATOR
F1:CEMC	Sep 21 17:46:34 2011	CALIBRATED CEMENT MAP
F1:CYQ	Sep 21 17:46:34 2011	CYCLE QUALITY
F1:DTMN	Sep 21 17:46:34 2011	MINIMAL SLOWNESS
F1:DTMX	Sep 21 17:46:34 2011	MAXIMAL SLOWNESS
F1:GR	Sep 21 17:46:34 2011	GAMMA RAY
F1:RBSB	Sep 21 17:46:34 2011	RELATIVE BEARING (RELATIVE TO BOREHOLE LOW SIDE) FOR SBT
F1:TEN	Sep 21 17:46:34 2011	DIFFERENTIAL TENSION
F1:WAVE	Sep 21 17:46:34 2011	DIGITIZED WAVEFORM

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
ATAV	19.75	ATC4	19.75	ATMX	19.75	DTMX	19.75
ATC1	19.75	ATC5	19.75	CCL	52.00	GR	42.75
ATC2	19.75	ATC6	19.75	CYQ	19.75	RBSB	19.75
ATC3	19.75	ATMN	19.75	DTMN	19.75	TEN	0.00

Presentation : sys1:SBT_RPT.pdf [5"/100' Scale]
Plot Interval : 550 - 977 Feet

Data File 1 : F1 : sys1:/data/INERGY_FINGER_LAKES_57_R1/m331d01.aff
Created On : Sep 21 17:46:34 2011
Company : INERGY MIDSTREAM, LLC
Well : FINGER LAKES 57
Field : US. SPH BRINE FIELD
File Interval : 550 - 978.25 Feet
Oct : m331d



CALIBRATION / VERIFICATION SUMMARY

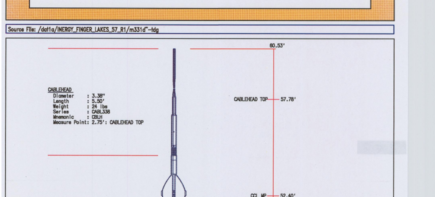
Source File: /data/INERGY_FINGER_LAKES_57_R1/m331d.tpl

SBT PRIMARY CALIBRATION SUMMARY

TOOL #: 1424XA Z118166 — DATE/TIME PERFORMED: Wed Sep 21 14:27:13 2011

UNIT #: 3880TA ML4288

	PAD 1	PAD 2	PAD 3	PAD 4	PAD 5	PAD 6
NOISE LEVEL	2.9	3.7	4.9	4.8	5.5	4.7
PAD SENS	302.2	246.1	270.2	266.0	277.0	263.0

INSTRUMENT CONFIGURATION

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