

Company: **SANDIA TECHNOLOGIES, LLC**

Well: **NYSTA TANDEM LOT 1**
 Field: **WILDCAT**
 County: **ROCKLAND**

State: **NEW YORK**

**Mechanical Sidewall
 Coring Tool
 Gamma-Ray**

County: **ROCKLAND**
 Field: **WILDCAT**
 Location: **LAT: 41.1039**
 Well: **NYSTA TANDEM LOT 1**
 Company: **SANDIA TECHNOLOGIES, LLC**

LOCATION		LAT: 41.1039	Elev.: K.B. 402.00 ft
		LONG: -74.027	G.L. 386.00 ft
			D.F. 402.00 ft
Permanent Datum:	<u>GROUND LEVEL</u>	Elev.: <u>386.00 ft</u>	
Log Measured From:	<u>KELLY BUSHING</u>	<u>16.00 ft</u>	above Perm. Datum
Drilling Measured From:	<u>KELLY BUSHING</u>		
API Serial No.	<u>31-087-27016-00-00</u>	Section	Township
			CLARKSTOWN
			QUAD

Logging Date	1-Sep-2011	
Run Number	5	
Depth Driller	1528 ft	
Schlumberger Depth	1500 ft	
Bottom Log Interval	1427 ft	
Top Log Interval	622 ft	
Casing Driller Size @ Depth	13.375 in	@ 603 ft
Casing Schlumberger	602 ft	
Bit Size	12.250 in	
Type Fluid In Hole	FRESH WATER BASED MUD	
Density	9.3 lbm/gal	
Fluid Loss	PH	
Source Of Sample	MEASURED	
RM @ Measured Temperature	6.690 ohm.m	@ 77 degF
RMF @ Measured Temperature	5.017 ohm.m	@ 77 degF
RMC @ Measured Temperature	10.035 ohm.m	@ 77 degF
Source RMF	CALCULATED	CALCULATED
RM @ MRT	7.490 @ 68	5.617 @ 68
Maximum Recorded Temperatures	68 degF	
Circulation Stopped	Time	
Logger On Bottom	1-Sep-2011	12:40
Unit Number	3039	BRADFORD
Recorded By	D. Suksdorf	
Witnessed By	DAN COLLINS	

	Run 1	Run 2	Run 3
Logging Date			
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth			
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
Density			
Fluid Loss			
Source Of Sample			
RM @ Measured Temperature			
RMF @ Measured Temperature			
RMC @ Measured Temperature			
Source RMF			
RM @ MRT			
Maximum Recorded Temperatures			
Circulation Stopped			
Logger On Bottom			
Unit Number			
Recorded By			
Witnessed By			

DEPTH SUMMARY LISTING

Date Created: 1-SEP-2011 17:30:17

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-B Serial Number: 2828 Calibration Date: 1-Jan-2011 Calibrator Serial Number: 33 Calibration Cable Type: 7-39P LXS Wheel Correction 1: -5 Wheel Correction 2: -4	Type: CMTD-B/A Serial Number: 2929 Calibration Date: 2-Aug-2011 Calibrator Serial Number: 1095 Number of Calibration Points: 10 Calibration RMS: 45 Calibration Peak Error: 71	Type: 7-39P LXS Serial Number: 3039 Length: 16000 FT Conveyance Method: Wireline Rig Type: LAND

Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	PLATFORM EXPRESS
Reference Log Run Number:	ONE
Reference Log Date:	31-Aug-2011

Depth Control Remarks

1. ALL SCHLUMBERGER DEPTH CONTROL POLICIES FOLLOWED
2. IDW USED AS PRIMARY DEPTH DEVICE
3. Z-CHART USED AS SECONDARY DEPTH DEVICE
- 4.
- 5.
- 6.

DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1 OS1: PEX-AIT OS2: CMR-ECS-HNGS OS3: PPC-SSCAN-FMI OS4: MDT-MSCT OS5: CBL/VDL-USIT	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
THANK YOU FOR CHOOSING SCHLUMBERGER	
TOOLS RUN AS PER TOOL SKETCH	
ALL WELLSITE DATA, PERMIT, MUD REPORT, SOP PROVIDED BY CLIENT	
RUN1: PEX-AIT RUN2: CMR-ECS-HNGS RUN3: PPC-SSCAN-FMI	
RUN4: MSCT RUN5: MDT RUN6: CBL/VDL-USIT	

3 MAX TEMP THERMOMETERS RUN IN HEAD, PER RUN, MAX TEMP FROM HTEM.

25 CORES REQUESTED

25 CORES RECOVERED

SLB CREW: THIMLAR / CANNON

RUN 1
 SERVICE ORDER #: AXPS-00185
 PROGRAM VERSION: 19C0-187
 FLUID LEVEL: 0 ft

RUN 2
 SERVICE ORDER #:
 PROGRAM VERSION:
 FLUID LEVEL:

LOGGED INTERVAL	START	STOP

LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1

RUN 2

SURFACE EQUIPMENT

MCPP-AA
 GSR-U/Y

DOWNHOLE EQUIPMENT

LEH-QT 36.8
 LEH-QT 269



SGT-E 33.9
 ECH-KG
 SGC-JC 2069
 SGD-TAA
 Gamma Ray 27.2



MSCT-AA 28.9
 MCEC-AA 4060
 ECH-KS
 MCMU-AA 155
 BIT-AA
 MCFU_H-AA



Tension MSCT

— TOOL ZERO

TOOL BOTTOM

MAXIMUM STRING DIAMETER 5.25 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

MSCT CORE REPORT

Core	Depth	Recovery	Remark
1	1427.0 (FT)	Recovered	
2	1397.0 (FT)	Recovered	
3	1393.0 (FT)	Recovered	
4	1318.9 (FT)	Recovered	2PC
5	1263.0 (FT)	Recovered	
6	1226.9 (FT)	Recovered	
7	1197.1 (FT)	Recovered	UNCONSOLIDATED
8	1181.0 (FT)	Recovered	
9	1171.9 (FT)	Recovered	
10	1103.0 (FT)	Recovered	
11	1082.0 (FT)	Recovered	
12	1034.0 (FT)	Recovered	
13	1030.0 (FT)	Recovered	
14	1017.0 (FT)	Recovered	
15	966.0 (FT)	Recovered	
16	904.0 (FT)	Recovered	
17	833.1 (FT)	Recovered	3/4 CORE
18	829.0 (FT)	Recovered	
19	811.0 (FT)	Recovered	
20	752.0 (FT)	Recovered	
21	718.1 (FT)	Recovered	
22	713.0 (FT)	Recovered	
23	705.0 (FT)	Recovered	
24	689.0 (FT)	Recovered	
25	622.0 (FT)	Recovered	3/4 CORE

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Schlumberger

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Mechanical Sidewall

Coring Tool

Gamma-Ray