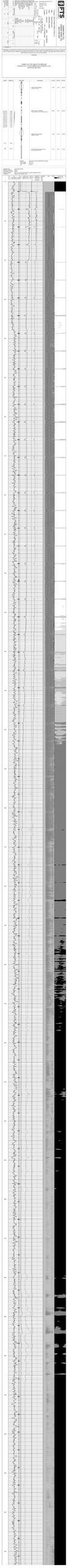
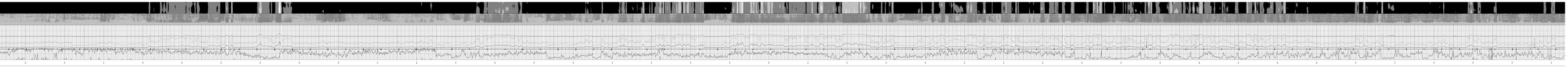
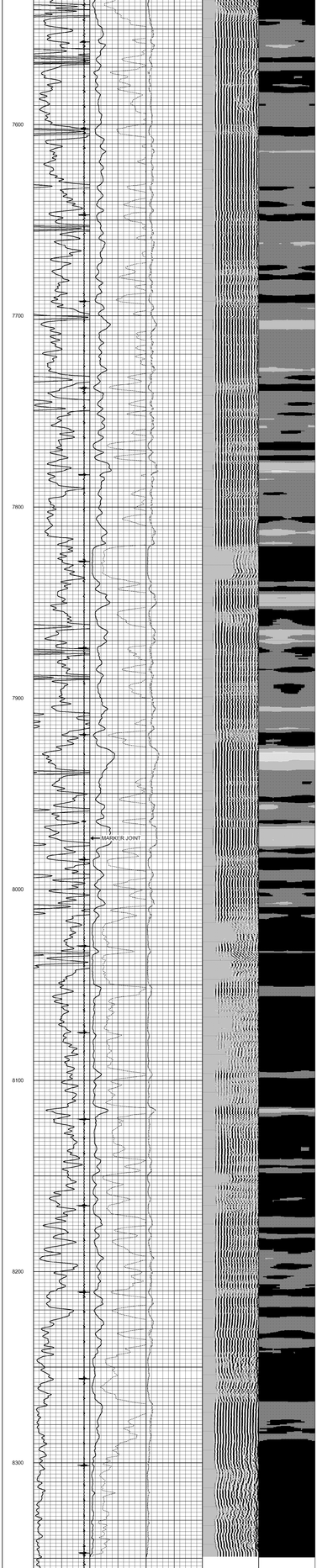

STS
Stratigraphic Technology Services, LLC
Houston, Texas
Phone: 281-240-1033
Fax: 281-240-1032
Email: sts@stratigraphic.com
Web: www.stratigraphic.com
Client: Marathon Oil Company
Well: Thomas Tull #1H
Field: Wildcat
County: Lea
State: New Mexico
Location: Section 34, T-19-S, R-34-E
Elevation: KB: 3,650' GL: 3,625'
Spud Date: 10/15/2013
Comp. Date: 11/15/2013
API #: 30-025-41234
Operator: Marathon Oil Company
Geologist: Jennifer Walsh
Engineer: Robert Hayes
Total Depth: 14,850' MD / 10,412' TVD
Lateral Length: 4,438'
Mud Type: Cut Brine / Polymer
Max Mud Wt: 10.2 ppg
Bit Program: 17.5" / 12.25" / 8.75" / 6.125"
Casing: 13.375" @ 1,850' MD
9.625" @ 5,210' MD
5.5" @ 14,850' MD
Cement: Lead: 650 sx Class C
Tail: 1,200 sx Class H
Logging Co.: Halliburton Sperry-Sun
Logs Run: MWD/LWD Gamma Ray, Resistivity, Density, Neutron
Directional Co.: Halliburton Sperry-Sun
Survey Type: MWD Gamma Ray
Vertical Section Direction: 180.00°
Kick-off Point: 9,800' MD
Build Rate: 12.00°/100'
Landing Point: 10,412' TVD / 10,650' MD
Inclination: 90.00°
Azimuth: 180.00°
Lateral Length: 4,438'
Closure Distance: 4,438'
Closure Direction: 180.00°
Dog Leg Severity: 2.00°/100'
Tie-in Survey: 9,800' MD
Last Survey: 14,850' MD
Survey Count: 112
Survey Interval: 30'
Survey Accuracy: ±0.25°
Survey Method: Minimum Curvature
Survey Tool: MWD
Survey Company: Halliburton Sperry-Sun
Survey Date: 10/15/2013 - 11/15/2013
Survey Certified: Yes
Survey Signed: Yes
Survey Notarized: No
Survey Witnessed: No
Survey Filed: Yes
Survey Approved: Yes
Survey Rejected: No
Survey Corrected: No
Survey Amended: No
Survey Superseded: No
Survey Final: Yes
Survey Preliminary: No
Survey Revised: No
Survey Duplicate: No
Survey Void: No
Survey Lost: No
Survey Found: No
Survey Destroyed: No
Survey Archived: No
Survey Scanned: No
Survey Digitized: No
Survey Verified: No
Survey Audited: No
Survey Reviewed: No
Survey Approved: No





Calibration Report

Database File: snow king 9-32.db
Dataset Pathname: pass4
Dataset Creation: Mon Jan 12 09:02:38 2015 by Log Std Casedhole 10121

Gamma Ray Calibration Report

Type / Serial: Probe2758g / pr051112

SHOP CALIBRATION		Sun Jun 13 14:33:21 1993			
	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		1.0000			GAPI/cps
PRIMARY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI
BEFORE SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI
AFTER SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Segmented Cement Bond Log Calibration Report

Serial Number:	4.5040904	
Tool Model:	Probe	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	118.567	ft

Master Calibration, performed Mon Jan 12 08:38:33 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	1.527	1.000	71.921	46.434	1.000
CAL	0.000	2.068				
5'	0.000	1.415	1.000	71.921	50.137	1.000
SUM						
S1	0.000	1.495	0.000	71.000	47.495	0.000
S2	0.000	1.459	0.000	71.000	48.677	0.000
S3	0.000	1.443	0.000	71.000	49.210	0.000
S4	0.000	1.459	0.000	71.000	48.677	0.000
S5	0.000	1.480	0.000	71.000	47.968	0.000
S6	0.000	1.523	0.000	71.000	46.615	0.000
S7	0.000	1.557	0.000	71.000	45.602	0.000
S8	0.000	1.553	0.000	71.000	45.716	0.000

Internal Reference Calibration, performed Wed Dec 31 18:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.000	2.068	1.000	0.000

Air Zero Calibration, performed Wed Apr 02 16:37:00 2014:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000