Company	Cash Exploration & Production, LLC
Well	Ship Shoal 113 A-1
Field	Ship Shoal Block 113
County/Parish	Terrebonne
State	Louisiana
Other	Depth Cut For Cracking Oil Washout

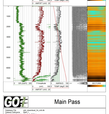
Logging Company	Cash Exploration & Production, LLC	Logging Date	10-Jan-2012
Logging Engineer	Jeff Cox	Logging Unit	1
Logging Supervisor	Jeff Cox	Logging Truck	Offshore

Main Pass

Depth Reference	KB Elevation 31.00 ft
Permanent Datum	Mean Sea Level
Log Measured From	KB 31.00 ft Above Permanent Datum
Drilling Measured From	KB
Elevation	KB 31.00 ft
Elevation	GL 0.00 ft
Elevation	DF 0.00 ft

Date	10-Jan-2012	Run Number	ONE
Depth Driller	6,000 ft	Depth Logged	6,000 ft
Bottom Logged Interval	6,000 ft	Top Logged Interval	0 ft
Casing Driller Size	9.625 in @ 0 ft	Casing Logged Size	9.625 in @ 0 ft
Drill Bit	8.500 in	Drill Fluid Type	Water Based Mud
Density	9.0 lb/gal	Viscosity	40 s/qt
Fluid Loss	4.0 cc	Max Rec Temp	0 deg F
Equipment	7500	Location	Offshore

Recorded By	Jeff Cox	Witnessed By	Mr. Bill Kelly

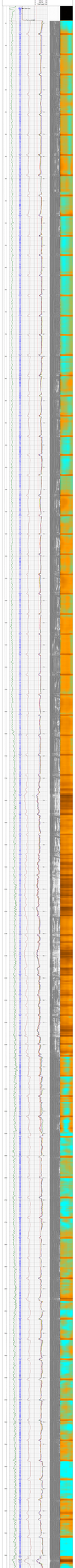


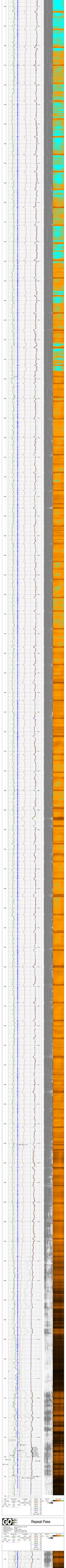
Main Pass

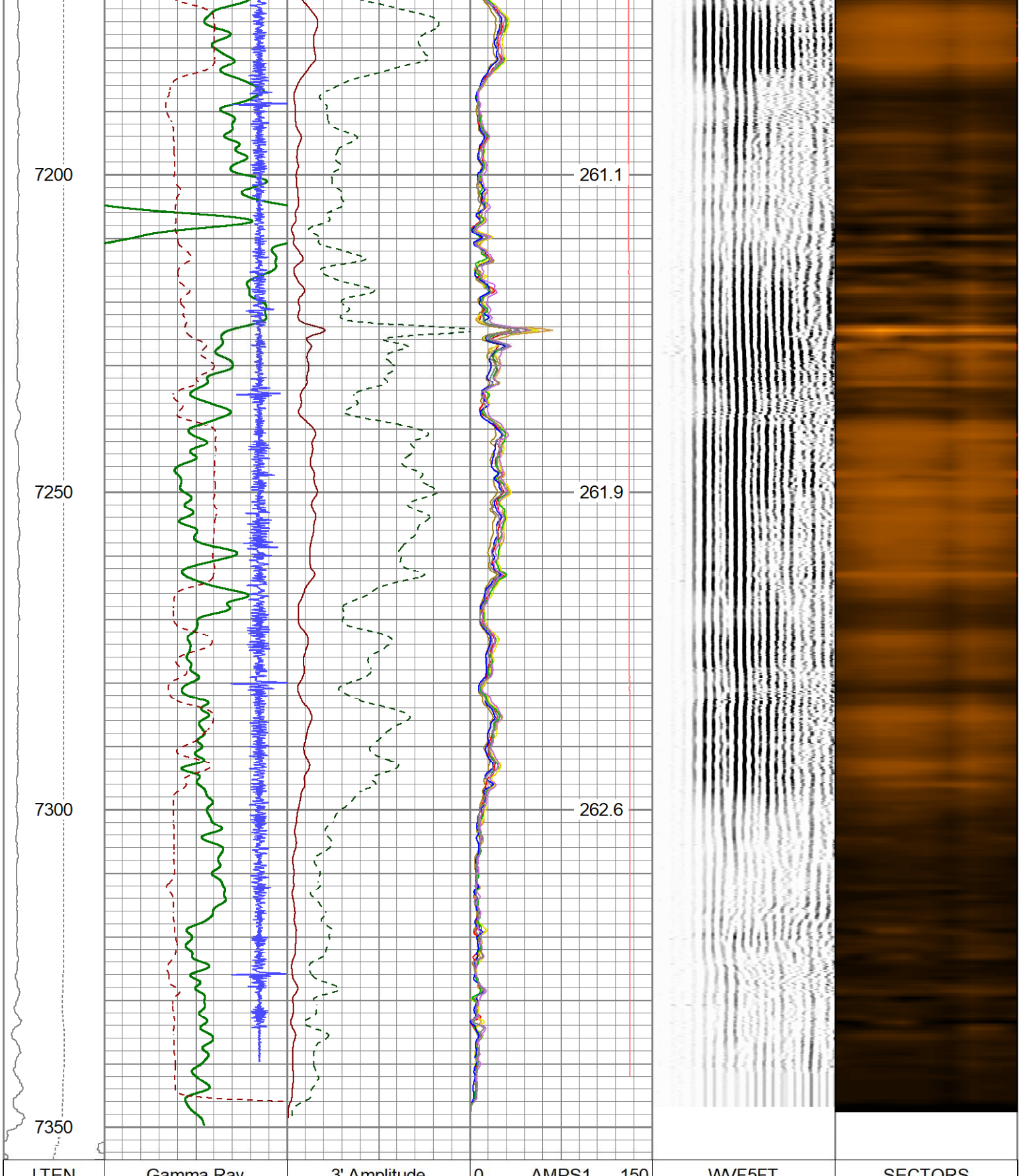
Depth Reference	KB Elevation 31.00 ft
Permanent Datum	Mean Sea Level
Log Measured From	KB 31.00 ft Above Permanent Datum
Drilling Measured From	KB
Elevation	KB 31.00 ft
Elevation	GL 0.00 ft
Elevation	DF 0.00 ft

Date	10-Jan-2012	Run Number	ONE
Depth Driller	6,000 ft	Depth Logged	6,000 ft
Bottom Logged Interval	6,000 ft	Top Logged Interval	0 ft
Casing Driller Size	9.625 in @ 0 ft	Casing Logged Size	9.625 in @ 0 ft
Drill Bit	8.500 in	Drill Fluid Type	Water Based Mud
Density	9.0 lb/gal	Viscosity	40 s/qt
Fluid Loss	4.0 cc	Max Rec Temp	0 deg F
Equipment	7500	Location	Offshore

Recorded By	Jeff Cox	Witnessed By	Mr. Bill Kelly




GO
Repeat Pass



LTEN	Gamma Ray	3' Amplitude	AMPS1	WVF5FT	SECTORS
0 (lb 1000	0 (GAPI) 200	0 (mV) 100	0 AMPS1 150	200 (usec) 1200	0 90
LSPD	TT3FT	3 'Amplified Amplitude	0 AMPS2 150	(V)	
(ft/min)	380 (usec) 180	0 (mV) 20	0 AMPS3 150		
500 -500	CCL		0 AMPS4 150		
			0 AMPS5 150		
			0 AMPS6 150		
			0 AMPS7 150		
			0 AMPS8 150		
			0 TEMP (degF) 300		

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			Cable Head-Titan_144 1 7/16" Titan Cable Head	1.03	1.44	2.00
CCL	15.45		CCL-275CCL_6MAG (275CCL_6MAG_Base) 050-CC275-0100 (6 MAG CCL SGL PIN)	2.72	2.75	
			CENT-tekco	2.00	4.50	3.00
TEMP	11.56					
			PROBE-RBT-DIGITAL-RBL-DCT (1411-220) Probe 2 3/4" Radii Bond with Temp-Corrosion Package	9.21	2.75	105.00
WVFS8	9.27					
WVFS7	9.27					
WVFS6	9.27					
WVFS5	9.27					
WVFS4	9.27					
WVFS3	9.27					
WVFS2	9.27					
WVFS1	9.27					
WVFCAL	9.27					
WVF3FT	9.27					
WVF5FT	8.27					
CCL$2	4.20					
DCCL	4.20					
CCL$1	4.20					
GCT_TEMP	3.41					
GR	2.83		PROBE-GR/DCCL-275 Probe GCT (2107026) Probe 2 3/4" Gamma Ray/Temp/CCL 6 Pin	4.75	2.75	60.00
			CENT-Overbody	2.00	4.50	3.00
			Bullnose-PROBE Probe Go Pin Pressure Cap	0.33	1.38	1.00

Dataset: pdc_steamboat_3n_rcbl.db: field/well/run1/Main.1
Total length: 18.04 ft
Total weight: 177.00 lb
O.D.: 4.50 in

Calibration Report

Database File: pdc_steamboat_3n_rcbl.db
Dataset Pathname: Main.1
Dataset Creation: Thu Mar 23 14:05:03 2023

Gamma Ray Calibration Report

Serial Number:	2107026	
Tool Model:	275 Probe GCT	
Performed:	Wed Sep 21 08:38:08 2022	
Calibrator Value:	200.0	GAPI
Background Reading:	43.9	cps
Calibrator Reading:	269.1	cps
Sensitivity:	0.8881	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	1411-220	
Tool Model:	RBL-DCT	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	53.617	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.000	0.549	0.500	71.921	129.953	0.536
CAL	0.767	0.768				
5'	0.000	0.505	0.500	71.921	141.401	0.486
SUM						
S1	-0.003	0.605	0.000	100.000	164.305	0.560
S2	-0.000	0.582	0.000	100.000	171.736	0.014
S3	0.000	0.562	0.000	100.000	178.039	-0.031
S4	-0.000	0.557	0.000	100.000	179.468	0.002
S5	0.000	0.580	0.000	100.000	172.527	-0.055
S6	0.001	0.573	0.000	100.000	174.699	-0.173
S7	-0.000	0.591	0.000	100.000	169.003	0.069
S8	-0.000	0.620	0.000	100.000	161.182	0.001

Air Zero Calibration, performed Thu Mar 23 11:43:17 2023:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.003	0.000	-0.000
5'	0.006	0.000	0.000
SUM			
S1	-0.002	0.000	0.000
S2	0.003	0.000	-0.000
S3	0.003	0.000	0.000
S4	0.003	0.000	-0.000
S5	0.003	0.000	0.000
S6	0.003	0.000	0.001
S7	0.003	0.000	-0.000
S8	0.003	0.000	-0.000

Temperature Calibration Report

Serial Number:	1411-220	
Tool Model:	RBL-DCT	
Performed:	Fri Mar 3 13:46:04 2023	

	Reference		Reading	
Low Reference:	0.00	degF	0.00	degF
High Reference:	1.00	degF	1.00	degF

Gain:	0.90
Offset:	0.00
Delta Spacing	1

Company	PDC Energy
Well	Steamboat 3N
Field	Wattenberg
County	Weld
State	Colorado