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Gyrodata, Inc.
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Client: Chesapeake Energy Corporation
Well: Hyde 1-1
Field: Wildcat
County: Grady
State: Oklahoma
Surface Location: Section 1, T-7-N, R-6-W
Bottom Hole Location: Same as Surface Location
Survey Type: Gyrocompass Multi-Shot
Survey Date: 10-Jun-2011
Gyro Serial #: 1000
Gyro Software: 4.1
Gyro Model: 3
Inclination Sensor: Yes
Azimuth Sensor: Yes
Depth Source: Wireline
Depth Zero: KB
Depth Zero Elevation: 1,100 ft
Depth Units: Feet
Declination: 0.00 Deg
Convergence: 0.00 Deg
Grid Correction: 0.00 Deg
Total Correction: 0.00 Deg
Gyro Data Type: Raw
Azimuth Type: Grid
Vertical Section Azimuth: 0.00 Deg
Vertical Section Origin: 0.00 ft, 0.00 ft
Calculation Method: Minimum Curvature
Vertical Section Calculation Method: Minimum Curvature

Gyrodata Top of Casing
Hyde 1-1
Wildcat
Grady County, Oklahoma

Gyrodata Job Number
Gyro Depth Zero Elevation Above Ground: 1,100 feet (KB)

Log Variables

Log Variable	Value	Log Variable	Value	Log Variable	Value	Log Variable	Value
Gyro Type	Raw	Gyro Model	3	Gyro Software	4.1	Gyro Serial #	1000
Inclination Sensor	Yes	Azimuth Sensor	Yes	Depth Source	Wireline	Depth Zero	KB
Depth Zero Elevation	1,100 ft	Depth Units	Feet	Declination	0.00 Deg	Convergence	0.00 Deg
Grid Correction	0.00 Deg	Total Correction	0.00 Deg	Gyro Data Type	Raw	Azimuth Type	Grid
Vertical Section Azimuth	0.00 Deg	Vertical Section Origin	0.00 ft, 0.00 ft	Calculation Method	Minimum Curvature	Vertical Section Calculation Method	Minimum Curvature

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BOND INDEX

Chesapeake Energy Corporation Oklahoma Strength Consult

Hyde 1-1

Wildcat

Grady County, Oklahoma

Gyro Serial #: 1000

Gyro Software: 4.1

Gyro Model: 3

Gyro Data Type: Raw

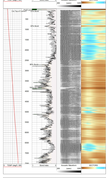
Azimuth Type: Grid

Vertical Section Azimuth: 0.00 Deg

Vertical Section Origin: 0.00 ft, 0.00 ft

Calculation Method: Minimum Curvature

Vertical Section Calculation Method: Minimum Curvature



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BOND PLOT: Run with 1 - 75

X Y - 100 R

Gyro Serial #: 1000

Gyro Software: 4.1

Gyro Model: 3

Gyro Data Type: Raw

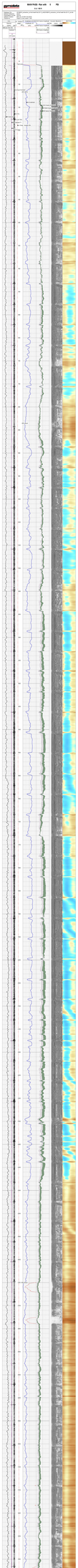
Azimuth Type: Grid

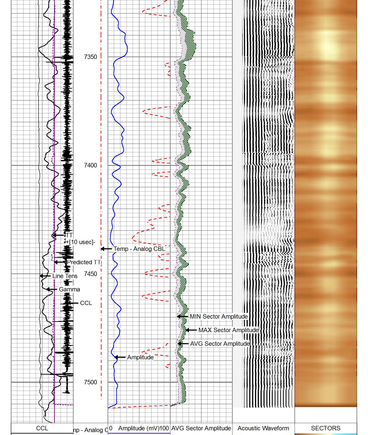
Vertical Section Azimuth: 0.00 Deg

Vertical Section Origin: 0.00 ft, 0.00 ft

Calculation Method: Minimum Curvature

Vertical Section Calculation Method: Minimum Curvature





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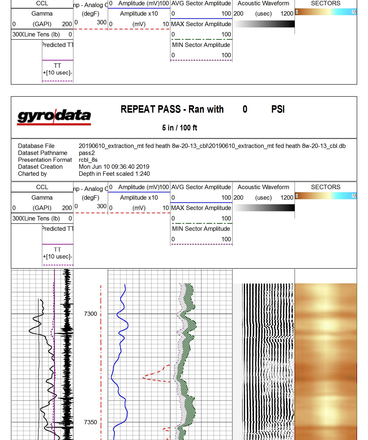
6 in / 100 ft

Database File	20190610_extraction_mt fed heath 8w-20-13_cbl20190610_extraction_mt fed heath 8w-20-13_cbl.db
Dataset Pathname	pass2
Presentation Format	rcbl_8in
Dataset Creation	Mon Jun 10 09:36:40 2019
Charted by	Depth in Feet scaled 1:240



Calibration Report

Database File	d:\warrior\data\20190610_extraction_mt fed heath 8w-20-13_cbl\20190610_extraction_mt fed heath 8w-20-1
Dataset Pathname	pass3
Dataset Creation	Mon Jun 10 09:41:02 2019

Gamma Ray Calibration Report

Serial Number:	IXEM9-02	
Tool Model:	2 3/4" TekCo	
Performed:	Thu Apr 25 09:11:34 2019	
Calibrator Value:	194.0	GAPI
Background Reading:	66.1	cps
Calibrator Reading:	391.4	cps
Sensitivity:	0.5963	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	IRB34-03	
Tool Model:	2 3/4" RIB Analog	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	122.740	ft

Master Calibration, performed (Derived):

	Raw (mv)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.001	1.879	0.000	71.921	38.250	0.040
CAL	-0.004	0.746				
SUM	-0.000	1.786	0.000	71.921	40.259	0.001
S1	0.006	2.205	0.000	72.000	32.736	-0.182
S2	0.004	2.239	0.000	72.000	32.225	-0.141
S3	0.003	2.197	0.000	72.000	32.823	-0.102
S4	0.003	2.268	0.000	72.000	31.926	-0.089
S5	0.003	2.284	0.000	72.000	31.570	-0.109
S6	0.005	2.289	0.000	72.000	31.522	-0.147
S7	0.006	2.281	0.000	72.000	31.654	-0.203
S8	0.007	2.235	0.000	72.000	32.306	-0.218

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.004	0.746	1.000	0.000

Air Zero Calibration, performed (Not Performed):

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM		0.000	
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

Temperature Calibration Report

Serial Number:	IRB34-03			
Tool Model:	2 3/4" RIB Analog			
Performed:	Wed Jan 30 12:36:18 2019			
	Reference		Reading	
Low Reference:	0.00	degF	0.00	usec
High Reference:	1.00	degF	1.00	usec
Gain:	0.33			
Offset:	0.00			
Delta Spacing	1			

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CableHead-TitanConeType2	1.03	1.44	3.60
CCL	13.50		CCL_Log-2 3/4" TekCo (IPSN7-002)	1.83	2.75	33.00
			Antelope-Overbody	1.25	2.75	
TEMP	10.05					
WVFS8	8.76		RBTA-2 3/4" RIB Analog (IRB34-03)	9.13	2.75	102.00
WVFS7	8.76					
WVFS6	8.76					
WVFS5	8.76					
WVFS4	8.76					
WVFS3	8.76					
WVFS2	8.76					
WVFS1	8.76					
WVF3FT	8.01					
WVFSFT	7.01					
WVFSYNC	3.68					
WVFTEMP	3.68					
WVFCAL	3.68					
			Antelope-Overbody	1.25	2.75	
			GR_Log-2 3/4" TekCo (IXEM9-02)	3.68	2.75	47.00
GR	1.04					
LOCTIM	0.00					
UTCTIM	0.00					
PMON	0.00					

Dataset:	20190610_extraction_mt fed heath 8w-20-13_cbl.db: field/well/run1/pass3
Total length:	15.67 ft
Total weight:	185.60 lb
O.D.:	2.75 in

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Company	Extraction Oil and Gas, Inc.		
Well	Mt Fed Heath 8W-20-13		
Field	Wattenberg		
County	Weld		
State	Colorado	**Country**	U.S.A.