



PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No.

15-063-22,242-00-00

Company **Cobalt Energy, LLC.**

Well **Reinecker 'A' No. 1-17**

Field **Q-B**

County **Gove**

State **Kansas**

Location **1932' FSL & 1529' FEL**

Other Services
DIL/BHV

Sec: **17** Twp: **11s** Rge: **26w**

Permanent Datum **Ground Level** Elevation **2654**

Log Measured From **Kelly Bushing** **7** Ft. Above Perm. Datum

Drilling Measured From **Kelly Bushing** **K.B. 2661**
D.F. 2654
G.L. 2654

Date **2-12-2015**

Run Number **One**

Type Log **CNL / CDL**

Depth Driller **4550**

Depth Logger **4550**

Bottom Logged Interval **4529**

Top Logged Interval **3600**

Type Fluid In Hole **Chemical**

Salinity, PPM CL **1200**

Density **9.5**

Level **Full**

Max. Rec. Temp. F **122**

Operating Rig Time **3 Hours**

Equipment -- Location **108 | Hays**

Recorded By **D. Fischer**

Witnessed By **J. Long**

Corey Baker

Borehole Record

Casing Record

Run No Bit From To Size Wgt. From To

One 12.25 00 267 8.625 23# 00 267

Two 7.875 267 TD

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

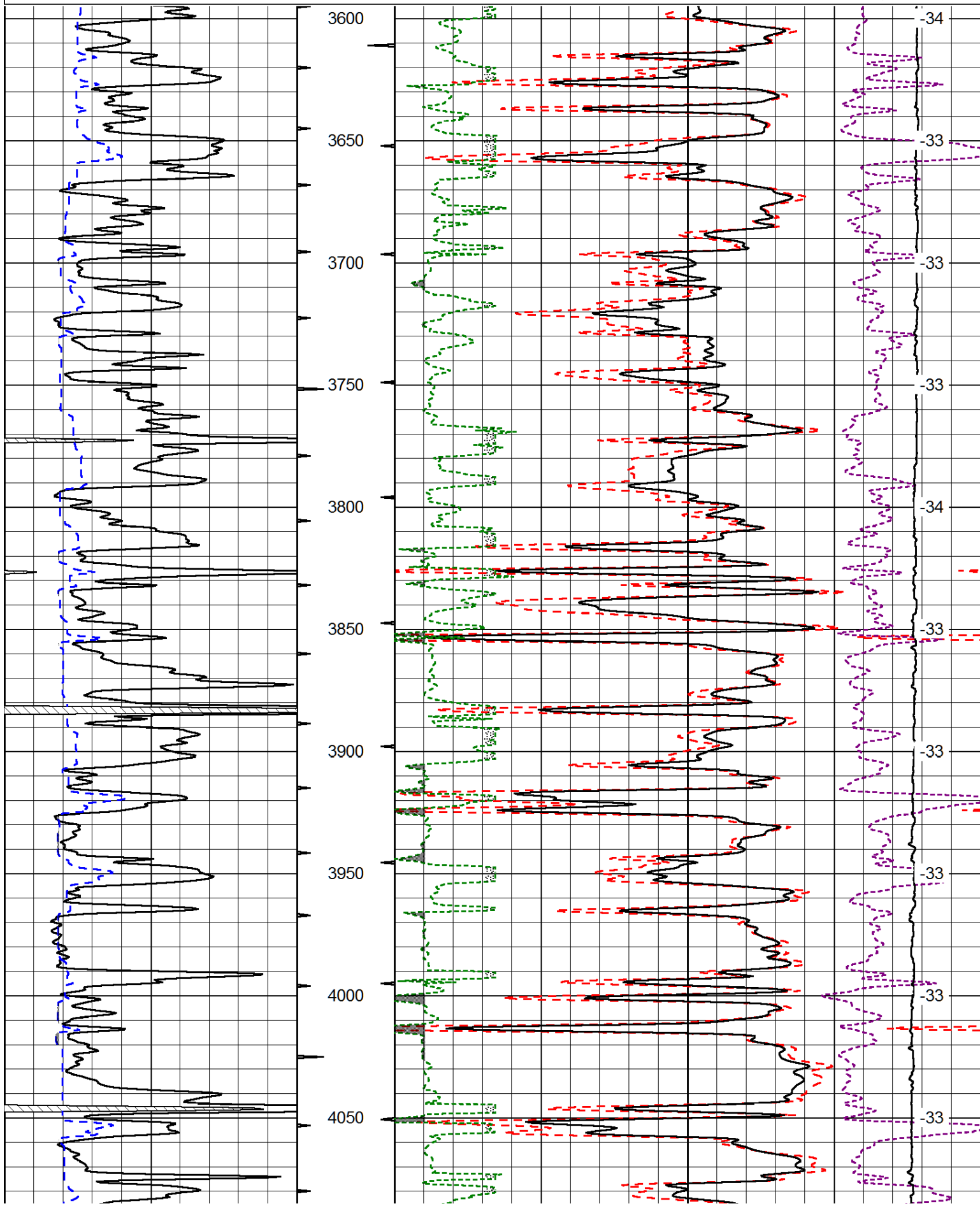
Thank you for using Log-Tech, Inc.
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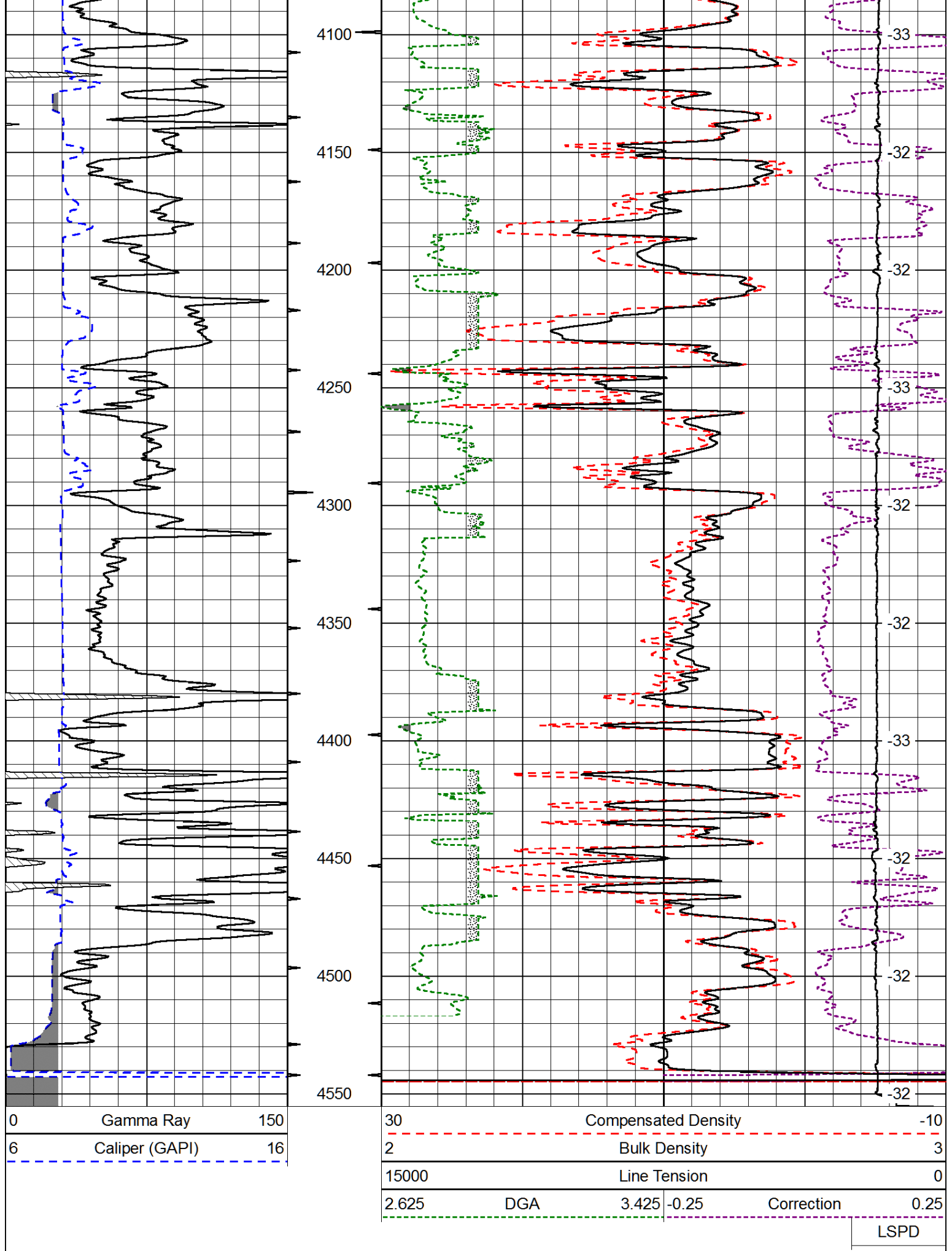
I-70 & Quinter Ks. Exit, North to Old 40, 1 North, 1 East, 1/2 North, West Into.

Database File: cobalt_reinecker_a_1-17hd.db
Dataset Pathname: DIL/cobstck
Presentation Format: cdl
Dataset Creation: Thu Feb 12 06:25:35 2015
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray	150
6	Caliper (GAPI)	16

30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
Correction			0.25
LSPD			





Database File: cobalt_reinecker_a_1-17hd.db
Dataset Pathname: DIL/cobstck
Presentation Format: cndlspec
Dataset Creation: Thu Feb 12 06:25:35 2015
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150	30	CNLS		-10
6	Caliper (GAPI)	16	30	Compensated Density (2.71 ma)		-10
			2.625	DGA	3.425	-0.25
			Correction		0.25	
			10000	Line Tension		0
						LSPD

