



Pioneer Energy Services

Borehole Compensated Sonic Log

API No. 15-051-26,724-00-00

Company **Cobalt Energy, LLC**
 Well **Sack Trust 'A' No. 1-24**
 Field
 County **Ellis** State **Kansas**

Location **1012' FNL & 335' FWL**
 Sec: **24** Twp: **13S** Rge: **19W**

Permanent Datum **Ground Level** Elevation **2038**
 Log Measured From **Kelly Bushing** 9 Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

Other Services
 CNL/CDL
 MEL/DIL
 Elevation
 K.B. 2047
 D.F. G.I.L. 2038

Date	8/13/14
Run Number	Two
Type Log	BHC Sonic
Depth Driller	3750
Depth Logger	3748
Bottom Logged Interval	3737
Top Logged Interval	200
Type Fluid In Hole	Chemical
Salinity, PPM CL	10,000
Density	9.1
Level	Full
Max. Rec. Temp. F	114
Operating Rig Time	4 Hours
Equipment -- Location	91 Hays
Recorded By	J. Henrickson
Witnessed By	Mike Maune

Borehole Record		Casing Record				
Run No	Bit From	To	Size	Wgt.	From	To
One	12.25	00	220	8.625	23#	00
Two	7.875	220	TD			220

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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.
 (785) 625-3858

Hays Kansas
 West on Old 40 to 210 Ave, 3/4 North, East Into

Database File: cobalt_sack_trust_a_1_24hd.db
 Dataset Pathname: DIL/cobstk
 Presentation Format: sonic
 Dataset Creation: Wed Aug 13 19:25:53 2014
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5	0	Sonic Porosity	-10
6	dCAL (GAPI)	16		15000	LTEN (lb)	0

LSPD

































