PSI
PHOENIX SURVEYS, INC.

V.D.L. C.C.L GAMMA-RAY CEMENT BOND LOG

Company	HRM RESOURCES, LLC
Well	DUTTON 4-2-22
Field	WATTENBERG
County	WELD
State	COLORADO

Company HRM RESOURCES, LLC
Well DUTTON 4-2-22
Field WATTENBERG
County WELD State COLORADO

API # : 0512332238

Location:
SHL 1158' FNL & 1197' FWL NWNW
BHL 1310' FNL & 2542' FWL NENW

SEC 22 TWP 4N RGE 67W

Other Services

Permanent Datum GL Elevation 4870'
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 4885'
D.F. 4884'
G.L. 4870

Date	DEC. 21 2010
Run Number	ONE
Depth Driller	7503'
Depth Logger	7536'
Bottom Logged Interval	7524
Top Log Interval	2500'
Open Hole Size	7-7/8"
Type Fluid	WATER
Density / Viscosity	NA
Max. Recorded Temp.	211 DEG. F
Estimated Cement Top	2700'
Time Well Ready	NA
Time Logger on Bottom	NA
Equipment Number	9605
Location	FORT MORGAN
Recorded By	TODD YOUNG
Witnessed By	TOM COBB

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	4.5"	11.6 LB.	SURFACE	7536'
Liner				

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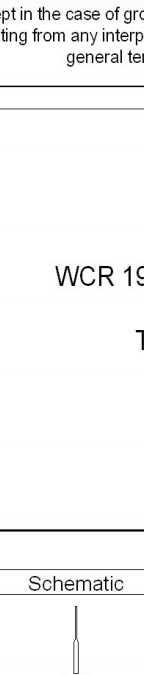
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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

WCR 19 & WCR 44 1/2 MILE S E 7/10 N INTO

THANK YOU FOR USING P.S.I.

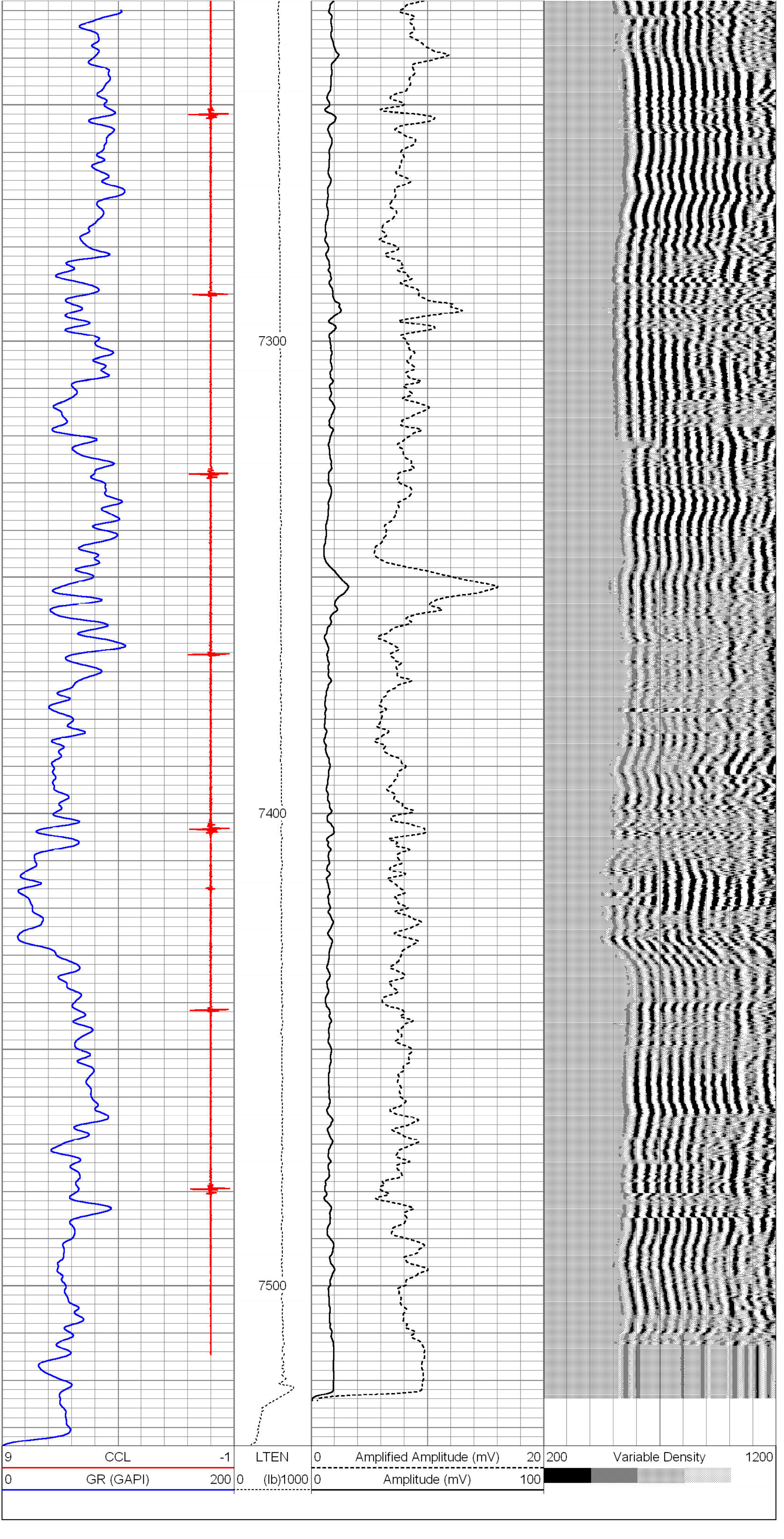


Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		STNDRD Standard Cable Head	1.00	1.69	1.00
CCL	19.06	CCL-titan01 (01t)	1.92	2.75	
		SDSCENT Centralizer	2.88	2.75	20.00
WVF3 WVF5	10.79 9.79	CBL-Probe (050215)	8.75	2.75	93.00
		SDSCENT Centralizer	2.88	2.75	20.00
GR	1.13	GR-probe 2.75 (51013)	3.67	2.75	100.00

Dataset:	hrmdutton 4-2-22.db: field/well/run1/pass2
Total Length:	21.08 ft
Total Weight:	234.00 lb
O.D.	2.75 in

Database File:	hrmdutton 4-2-22.db
Dataset Pathname:	pass2
Presentation Format:	cbl_dr
Dataset Creation:	Tue Dec 21 11:35:13 2010 by Log Std Casedhole 08121
Charted by:	Depth in Feet scaled 1:240

9 CCL -1	LTEN	0 Amplified Amplitude (mV) 20	200 Variable Density 1200
0 GR (GAPI) 200	0 (lb)1000	0 Amplitude (mV) 100	

Database File: hrmdutton 4-2-22.db
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Charted by: Depth in Feet scaled 1:240