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

PSI
PHOENIX SURVEYS, INC.

Company	HRM RESOURCES, LLC
Well	DUTTON 11-22
Field	WATTENBERG
County	WELD
State	COLORADO

Company HRM RESOURCES, LLC
Well DUTTON 11-22
Field WATTENBERG
County WELD State COLORADO

Location: API #: 05123292380

SHL 1133' FNL & 1177' FWL NWNW
BHL 609' FNL & 646' FWL NWNW
SEC 22 TWP 4N RGE 67W

Other Services

Permanent Datum	GL	Elevation	4871'
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4886'
D.F. 4885'
G.L. 4871'

Date	DEC. 21 2010
Run Number	ONE
Depth Driller	7480'
Depth Logger	7428'
Bottom Logged Interval	7416'
Top Log Interval	2860'
Open Hole Size	7-7/8"
Type Fluid	WATER
Density / Viscosity	NA
Max. Recorded Temp.	211 DEG. F
Estimated Cement Top	3060'
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	4.5"	11.6 LB.	SURFACE	7428'
Production String				
Liner				

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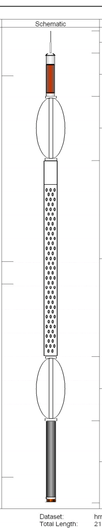
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

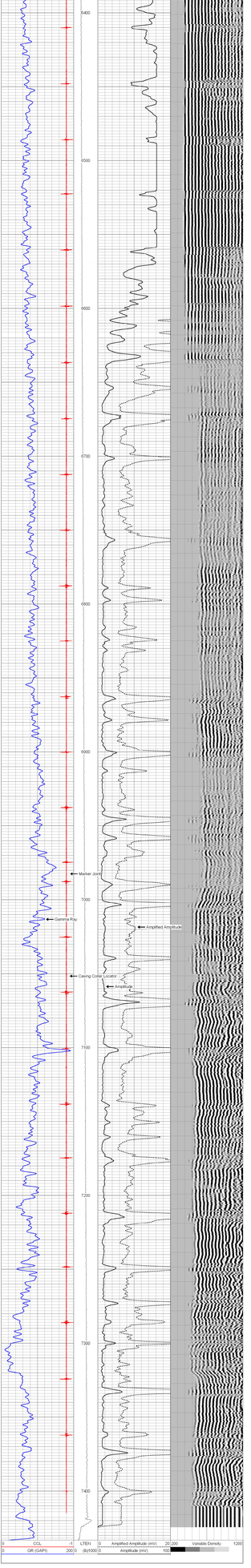
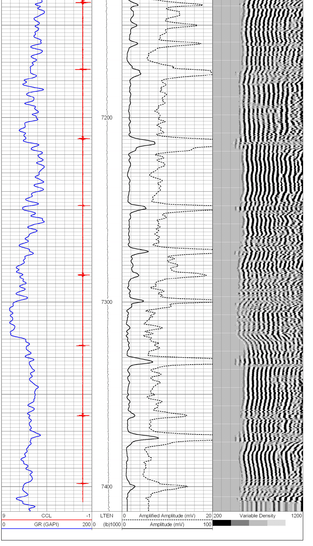


Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		STNDRD Standard Cable Head	1.00	1.69	1.00
CCL	19.06	CCL-titan01 (01t)	1.92	2.75	
		SDSCENT Centralizer	2.88	2.75	20.00
WVF3	10.79	CBL-Probe (050215)	8.75	2.75	93.00
WVF5	9.79				
		SDSCENT Centralizer	2.88	2.75	20.00
GR	1.13	GR-probe 2.75 (51013)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

Dataset:	hrmdutton11-22.db: field/well/run1/pass2
Total Length:	21.08 ft
Total Weight:	234.00 lb
O.D.	2.75 in

Database File:	hrmdutton11-22.db
Dataset Pathname:	pass2
Presentation Format:	cbl_dr
Dataset Creation:	Tue Dec 21 13:40:38 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: hrmdutton11-22.db
Dataset Pathname: pass1
Presentation Format: cbl_gr
Dataset Creation: Tue Dec 21 13:30:57 2010 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240