HALLIBURTON

TEMPERATURE LOG

Company SG INTERESTS
Well FEDERAL 11-89-17 #1
Field GUNNISON
County WILDCAT State CO

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Well FEDERAL 11-89-17 #1
Field GUNNISON
County WILDCAT State CO
API No.: 050510608600 Serv #: 6880731
Location: SURFACE HOLE:
2402 FNL & 2116 FEL
Other Services
RBT

Sec:17 Twp:11S Rge: 89W

Permanent Datum GROUND LEVEL Elevation 7425'
Log Measured From K.B. . 19 Ft. above perm. datum
Drilling Measured From K.B.

Elevation
K.B. 7444'
D.F. -----
G.L. 7425'

Date @ Time Logged	06/SEPT/2009 09:45	Type Fluid in Hole	WATER
Run No.	ONE	Density of Fluid	8.34 PPG
Depth - Driller	405'	Fluid Level	FULL
Depth - Logger	354'	Cement Top Est. Logged	LOGGED
Bottom - Logged Interval	353'	Equipment / Location	10971659 / GJ
Top - Log Interval	SURFACE	Recorded by	A. LINTEL
Max. Recorded Temp.	86 F	Witnessed by	C. MILLER

CEMENTING DATA	Surface String	Protection String	Production String	Liner
Date / Time Cemented				
Primary / Squeeze				
Expected Compressive Strength	psi@ hrs	psi@ hrs	psi@ hrs	psi@ hrs
Cement Volume				
Cement Type / Weight	/	/	/	/
Formulation				
Mud Type / Mud Wgt.	/	/	/	/

Borehole Record				Casing & Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	16"	SURFACE	405'	13.375"	54#	SURFACE	405'

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HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHCIH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

Comments

GR-CCL-TEMP RAN IN COMBINATION

NO REFERENCE LOG FOR CORRELATION

LOGGED INTERVALS PER CUSTOMER REQUEST

THANK YOU FOR USING HALLIBURTON ENERGY SERVICES GRAND JUNCTION, CO

Service Ticket No. 6880731 API No. 050510608600 PGM Ver WARRIOR 7.0

The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client

EQUIPMENT DATA

GR/CCL		TEMP					
Run No.	ONE	Run No.	ONE	Run No.		Run No.	
Serial No.	061018	Serial No.	08073	Serial No.		Serial No.	
Model No.	GR-PROBE	Model No.	TEMP-1.375	Model No.		Model No.	
Diameter	2.785"	Diameter	1.375"	Diameter		Diameter	

LOGGING DATA

General Data

Pass No.	Depths From	Depths To	Well Head Pressure	Speed Ft/Min	Logging Run Comments
ONE	354'	SURFACE	0 PSI	60	MAIN SECTION

Pass	GR Scale		CCL Scale		TEMP Scale		Scale	
No.	L	R	L	R	L	R	L	L
ONE	0	200	27	-3	0	100		

DIRECTIONAL INFORMATION

Maximum Deviation		deg. @		KOP	

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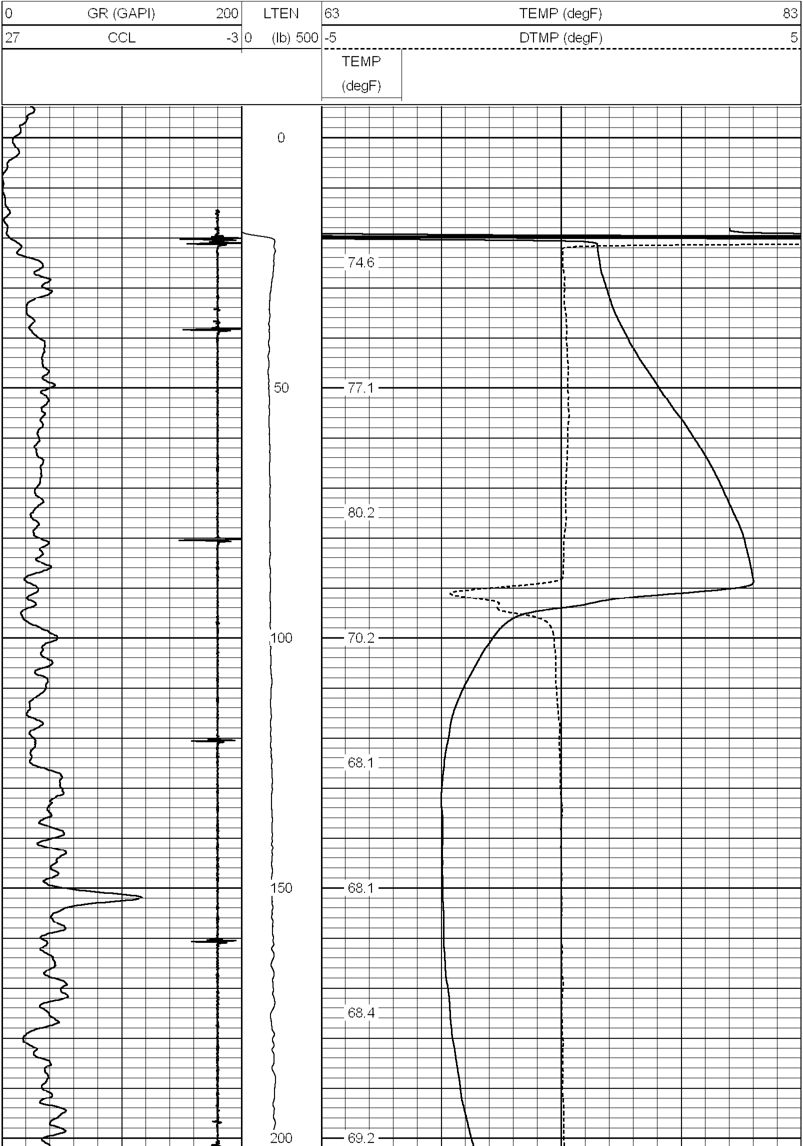
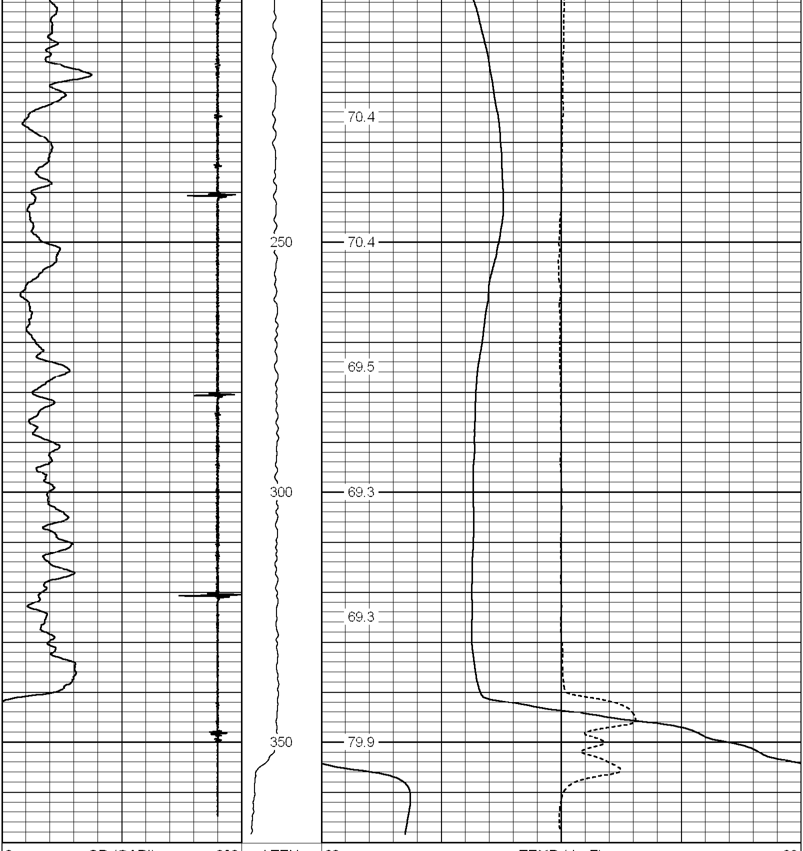
MAIN SECTION

5" = 100'

Database File: federal_11_89_17_1_temp.db
Dataset Pathname: MAIN1
Presentation Format: temp
Dataset Creation: Sun Sep 06 11:54:16 2009
Charted by: Depth in Feet scaled 1:240





0	GR (GAPI)	200	LTEN	63	TEMP (degF)	83
27	CCL	-3	0 (lb) 500	-5	DTMP (degF)	5
				TEMP (degF)		

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MAIN SECTION

5" = 100'

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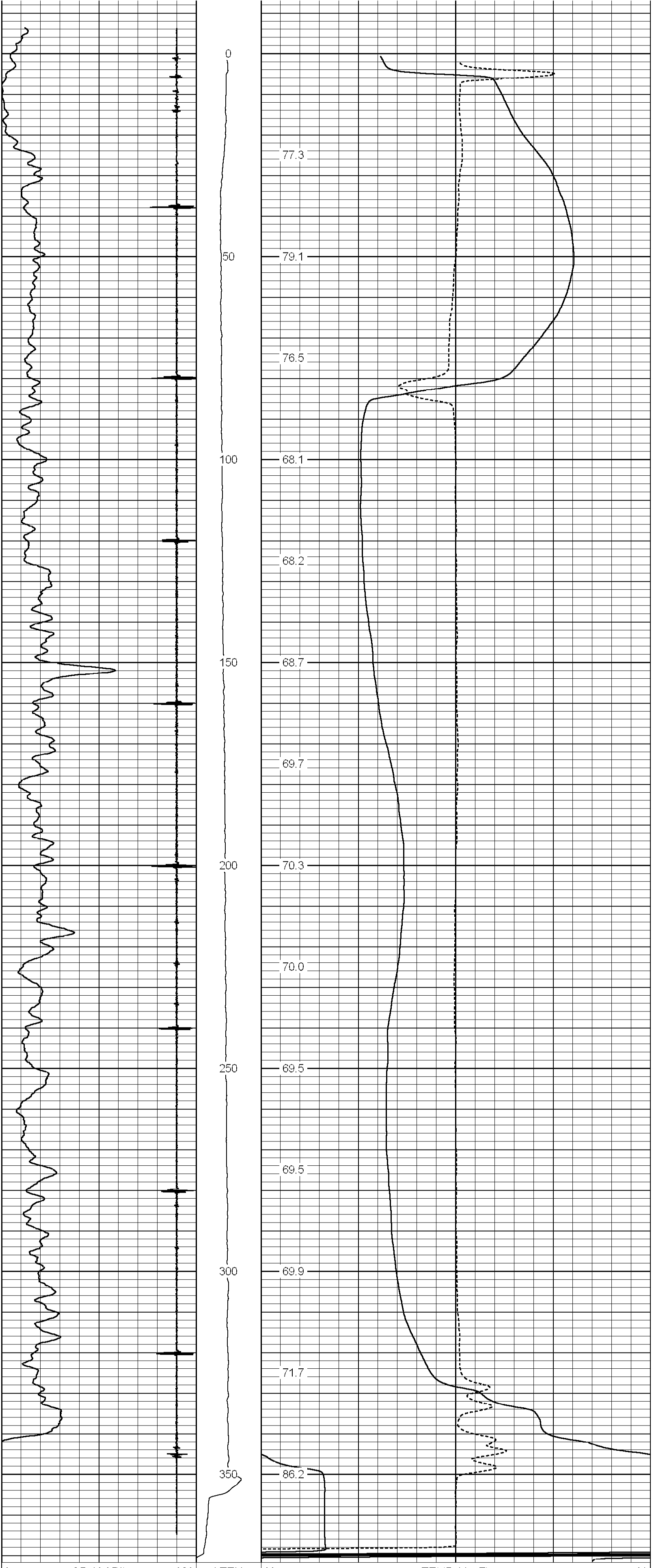
REPEAT SECTION

5" = 100'

Database File:	federal_11_89_17_1_temp.db
Dataset Pathname:	REPT1
Presentation Format:	temp
Dataset Creation:	Sun Sep 06 11:57:53 2009
Charted by:	Depth in Feet scaled 1:240

0	GR (GAPI)	200	LTEN	63	TEMP (degF)	83
27	CCL	-3	0 (lb) 500	-5	DTMP (degF)	5
				TEMP (degF)		



0	GR (GAPI)	200	LTEN	63	TEMP (degF)	83
27	CCL	-3	0 (lb) 500	-5	DTMP (degF)	5
				TEMP (degF)		

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REPEAT SECTION

5" = 100'

Calibration Report

Database File:	federal_11_89_17_1_temp.db
Dataset Pathname:	REPT1
Dataset Creation:	Sun Sep 06 11:57:53 2009

Temperature Calibration Report

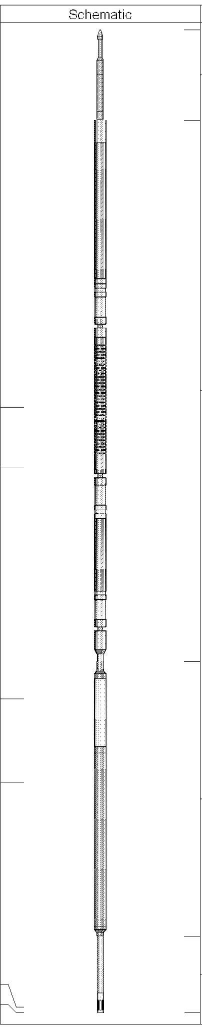
Serial Number:	08073			
Tool Model:	1.375TEMP			
Performed:	Sun Sep 06 09:47:19 2009			
	Reference		Reading	
Low Reference:	0.00	degF	0.00	cps
High Reference:	0.10	degF	1.00	cps
Gain:	0.10			
Offset:	0.00			
Delta Spacing	2			

Gamma Ray Calibration Report

Serial Number:	061018	
Tool Model:	Probe	
Performed:	Fri May 11 11:15:03 2007	
Calibrator Value:	210.0	GAPI
Background Reading:	46.7	cps
Calibrator Reading:	303.6	cps
Sensitivity:	0.8174	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	061115		
Tool Model:	Probe		
Performed:	Fri May 11 11:20:17 2007		
Depth:	0	ft	
Casing Diameter:	5.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	1	1	mV
Calibrated Amplitude:	81	81	mV
Reading at Signal Zero:	-0.0164307	-0.0123535	V
Reading in Free Pipe:	0.220239	0.216431	V
Gain:	338.024	349.675	
Offset:	6.55395	5.31971	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			STND_CH 1.4375 IN CABLE HEAD	1.50	1.44	1.00
			CBL-Probe (061115) Probe 2.75" Dual Receiver Bond	8.92	2.75	60.00
WVF3	9.98					
WVF5	8.98					
CCL	5.17					
GR	3.79		GR-Probe (061018) Probe 2.75" 4 Channel Pulse	4.54	2.75	30.00
TEMP	0.08		TEMP-1.375TEMP (08073) Temperature Tool	1.25	1.38	30.00
LLMTEN	0.00					

Dataset:	federal_11_89_17_1_temp.db: field/well/run1/T1
Total Length:	16.21 ft
Total Weight:	121.00 lb
O.D.	2.75 in

Company	SG INTERESTS		
Well	FEDERAL 11-89-17 #1		
Field	GUNNISON		
County	WILDCAT	State	CO

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TEMPERATURE LOG