COMPANY	ENERGY DEVELOPMENT CORPORATION
WELL	MAPLE RIDGE 1-2
FIELD	WILDCAT
COUNTY	MESA
STATE	COLORADO
LOCATION	1980' FSL & 1980' FEL
SEC	2
TWP	1S
RGE	101W
PERMANENT DATUM	GROUND LEVEL
ELEV.	5700'
LOG MEASURED FROM	KB 12' ABOVE PERM. DATUM
DRILLING MEASURED FROM	KB
API NO.	05-077-06123
DATE	12-2-2010
RUN NO.	ONE
DEPTH DRILLER	7500'
DEPTH LOGGER	7500'
BTM. LOG INTERVAL	7500'
TOP LOG INTERVAL	3800'
CASING - DRILLER	8 5/8" @ 3800'
CASING - LOGGER	3800'
BIT SIZE	7 7/8"
TYPE FLUID IN HOLE	GEL CHEM
DENSITY / VISCOSITY	9.4 / 45
PH / FLUID LOSS	9.0 / 6.0
SOURCE OF SAMPLE	PIT
RM @ MEAS. TEMP.	1.0 @ 70
RMF @ MEAS. TEMP.	1.0 @ 70
RMC @ MEAS. TEMP.	1.0 @ 70
RM @ BHT	0.5 @ 150
TIME CIRC. STOPPED	6:00
TIME LOGGER ON BOTTOM	8:00
MAX. REC. TEMP.	150
EQUIP. LOCATION	2
RECORDED BY	J. BOWEN
WITNESSED BY	J. ROSS

THIS INFORMATION IS ACCURATE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND WE ASSUME NO LIABILITY FOR ANY LOSS OR DAMAGE SUFFERED AS A RESULT OF ANY DECISION MADE OR ACTION TAKEN BASED ON THIS INFORMATION.

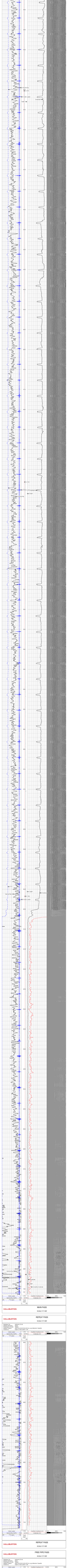
DUAL INDUCTION FOCUSED LOG
DUAL INDUCTION SFL LOG
ACOUSTIC TVD LOG
ACOUSTIC TVD LOG IN CASING @ 3800'
RAW MAP DATA LAS FILE
TRIMMED TVD FOR CROSSING WITH DEVON ENERGY SERVICE
ENERGY DEVELOPMENT CORPORATION, 1700 LINCOLN, SUITE 2700, DENVER, CO. 80203

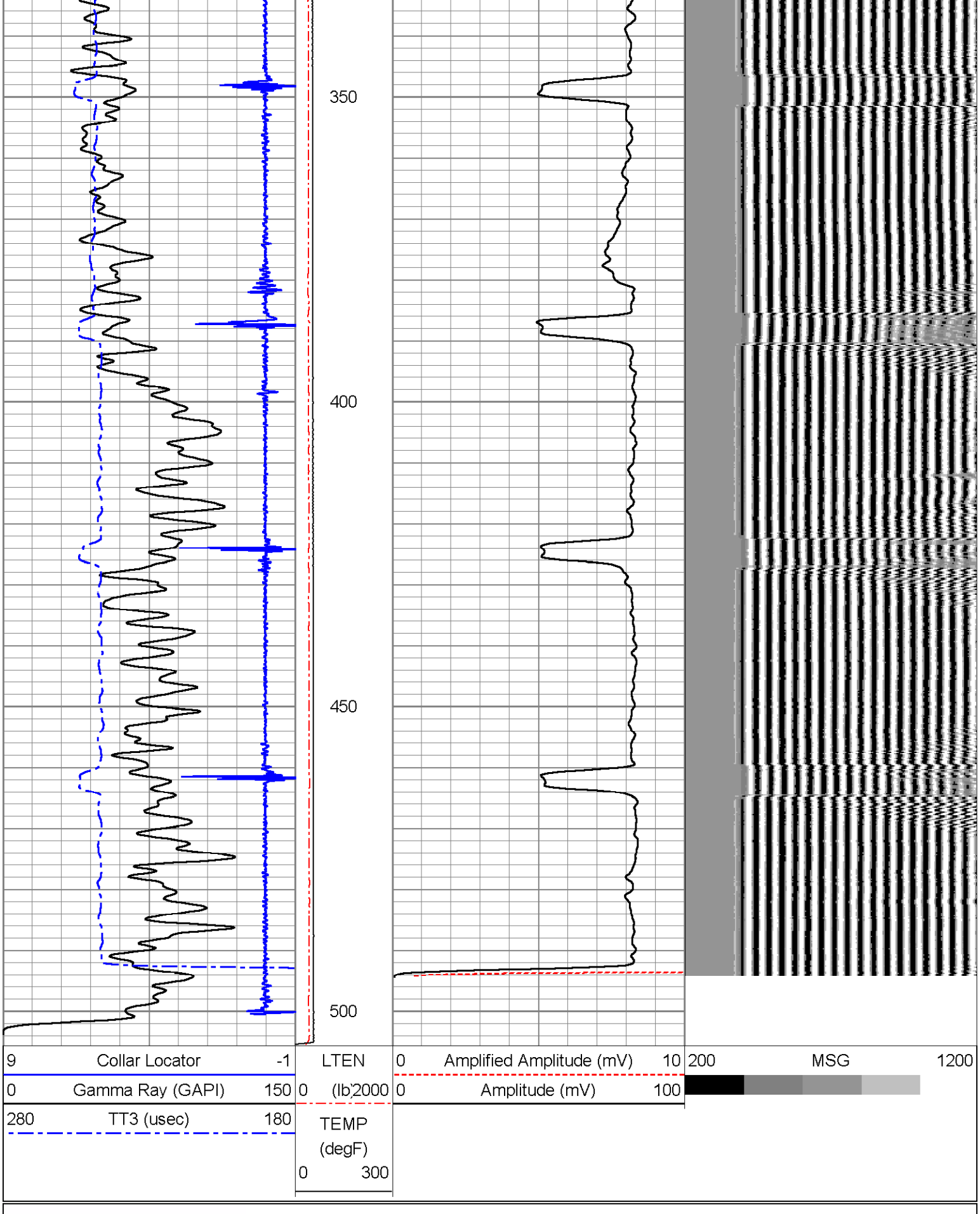
DIGITALIZATION

MAIN PASS

SCALE 1"=100'

DIGITALIZED BY: J. BOWEN
DATE: 12-2-2010
DIGITALIZING SYSTEM: ELECTRONIC DATA CONVERSION SYSTEMS
DIGITALIZING PROGRAM: DIGITAL LOG MANAGER
DIGITALIZING TABLE: 36" X 48" ELECTROMAGNETIC
DIGITALIZING TABLE SERIAL NO.: 1
DIGITALIZING TABLE CALIBRATION: 100%
DIGITALIZING TABLE ACCURACY: ± 0.1%
DIGITALIZING TABLE RESOLUTION: 0.001"
DIGITALIZING TABLE ERROR: 0.0"
DIGITALIZING TABLE ZERO: 0.0"
DIGITALIZING TABLE SCALE: 1:1
DIGITALIZING TABLE UNITS: INCHES
DIGITALIZING TABLE ORIENTATION: 0°
DIGITALIZING TABLE OFFSET


MAIN PASS
SCALE 5"/100'
REPEAT PASS
SCALE 5"/100'
FREE PIPE PASS
SCALE 5"/100'
REPEAT PASS
SCALE 5"/100'
FREE PIPE PASS
SCALE 5"/100'



HALLIBURTON

FREE PIPE PASS

SCALE: 5"=100'

Log Variables

Database:D:\Warrior_data\kpklewis2-20.db
Dataset: field/well/run1/pass11

Top - Bottom

PPT usec	MAXAMPL mV	MINAMPL mV	MINATTN db/ft	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF
249	82	0	0.8	4.5	0	7145	275

BITSIZE in
7.875

Calibration Report

Database File: kpklewis2-20.db
Dataset Pathname: pass11
Dataset Creation: Wed Oct 09 10:08:30 2013 by Log Halliburton Casedho

Temperature Calibration Report

Serial Number: Tit1.3_02
Tool Model: Titan
Performed: Fri Jan 04 06:55:24 2002

	Reference		Reading	
Low Reference:	0.00	degF	0.00	cps
High Reference:	1.00	degF	1.00	cps

Gain: 0.10
Offset: 0.00
Delta Spacing 2

Gamma Ray Calibration Report

Type / Serial: Probe / 275

SHOP CALIBRATION Wed Oct 09 08:37:34 2013

	Counts/Sec.	Gain	Offset	Jig	Units
Background	67.4				cps
Calibrator	234.3				cps
		1.4203			GAPI/cps

PRIMARY VERIFICATION Wed Oct 09 08:42:00 2013

Background	97.9				cps
Calibrator	331.5				cps
Difference				233.5	GAPI

BEFORE SURVEY VERIFICATION Wed Oct 09 08:46:38 2013

Background	96.1				cps
Calibrator	336.8				cps
Difference				240.7	GAPI

AFTER SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Cement Bond Log Calibration Report

Serial Number: 275
Tool Model: Probe
Performed: Wed Oct 09 09:33:30 2013

Depth: 404.135 ft
Casing Diameter: 4.5 in

	3' Spacing	5' Spacing	
Signal Zero:	0	0	mV
Calibrated Amplitude:	82	82	mV
Reading at Signal Zero:	-0.00222168	-0.000756836	V
Reading in Free Pipe:	0.288281	0.253101	V
Gain:	282.269	323.016	
Offset:	0.627112	0.24447	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
STNDCH	21.10		1_CABLEHEAD 1"OD CABLE HEAD	0.83	1.00	3.00
CENT	20.27		CENT-Probe (PT_MONO2) Probe 2 3/4 Centralizer	2.88	2.75	35.00
WVF3	12.72		CBL-Probe (275) Probe 2.75" Dual Receiver Bond	8.92	2.75	60.00
WVF5	11.72					
CENT	8.47		CENT-Probe (PT_MONO2) Probe 2 3/4 Centralizer	2.88	2.75	35.00
GR	5.58					
CCL	5.08					
GR	3.79		GR-Probe (275) Probe 2.75" 4 Channel Pulse	4.33	2.75	30.00
TEMP	0.17		TEMP-Titan (Tit1.3_02) Titan Temp 1.3875	1.25	1.39	10.00
LLMTEN	0.00					

Dataset: kpklewis2-20.db: field/well/run1/pass11
Total Length: 21.10 ft
Total Weight: 173.00 lb
O.D. 2.75 in

Company	KPK
Well	LEWIS 2-20
Field	WATTENBERG
County	WELD
State	CO

HALLIBURTON

CEMENT BOND LOG