COMPOSITE LOG

Tucker ENERGY SERVICES

Company	LACHENMAYR OIL LLC
Well	ELMDALE CEMETARY ASSOCIATI
Field	ELK
County	CHASE
State	KANSAS
Country	USA
API No.	15-017-20911-00-00

File No : TUL-58809
Company : LACHENMAYR OIL LLC
Well : ELMDALE CEMETARY ASSOCIATION #L-1
Field : ELK
County : CHASE
State : KANSAS
Country : USA
API No : 15-017-20911-00-00

Location :
2310' FNL & 460' FWL
E2 SW SW NW

LSD : **Sect :** 34 **Twp :** 19S **Rge :** 06E

Permanent Datum:	GL	**Elevations:**		**Services:**	
Drilling Measured From:	KB	**KB**	1363.00 Ft	GRT	PIT
Log Measured From:	KB	**DF**	1362.00 Ft	CNT	
Above Permanent Datum:	5.00 Ft	**GL**	1358.00 Ft	LDT	

Date	2012-11-11						
Run Number	1						
Depth--Driller	2100.0	Ft					
Depth--Logger	2100.0	Ft					
First Reading	2099.0	Ft					
Last Reading	222.0	Ft					
Casing--Driller	200.0	Ft					
Casing--Logger	0.0	Ft					
Bit Size	7.875	In					
Casing Size	8.625	In					
Hole Fluid Type	WBM						
Density	9.4	LBS/GAL					
Fluid Loss	9.6	CC					
PH/Viscosity	9.0	35.0 SEC					
Sample Source	MEASURED						
RM@Measured Temp.	2.200	@ 70 F					
RMF@Measured Temp	1.900	@ 70 F					
RMC@Measured Temp.	2.500	@ 70 F					
Source RMF/RMC	CALCULATED	CALCULATED					
RM@BHT	1.700	@ 90 F					
Time Circulation Stopped							
Max Recorded Temp.	90	F					
Equipment/Base	TRK 119	TULSA					
Recorded By	Z. HICKMAN, R. FRANKLIN						
Witnessed By	H. LACHENMAYR						

Bitsize Intervals

Size (In)	Bottom (Ft)
7.875	2100.00

Casing Strings

Size (In)	Weight (Lbs)	Bottom (Ft)
8.625	24.00	200.00

Run Number	1
Date	2012-11-11
Date/Time On Bottom	2012-11-11 01:45
Depth to Fluid	0.0 Ft
Salinity	0.000 PPM
RMF@BHT	1.500 @ 90 F
RMC@BHT	2.000 @ 90 F

Run Number 1

Comments

ALL PRESENTATIONS AS PER CUSTOMER REQUEST

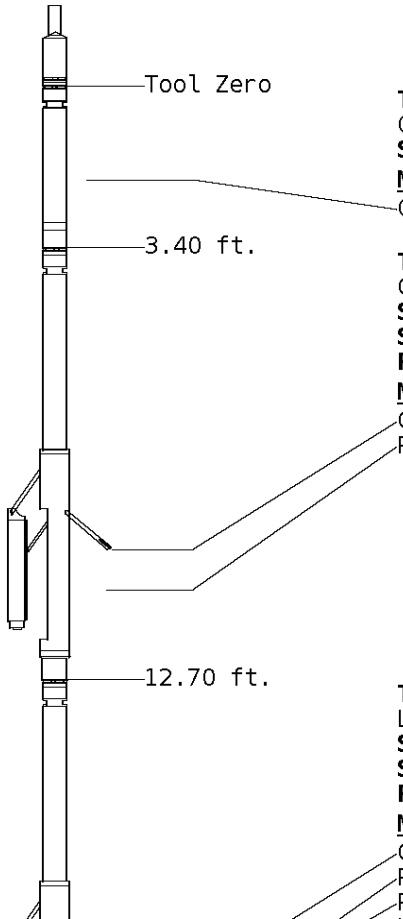
ALL PRESENTATIONS AS PER CUSTOMER REQUEST
GRT, CNT, LDT AND PIT RUN IN COMBINATION.
CALIPERS ORIENTED ON X-Y AXIS.
2.87 G/CC USED TO CALCULATED POROSITY.
ANNULAR HOLE VOLUME CALCULATED UISING 5.5' PRODUCTION CASING.

GRT: GRP.
CNT: PHIN, CLCNIN
LDT: PORL, LCORN, PECLN, LDENN, PORLLS, CLLDIN.
PIT: ILD, ILM, SPU, SFLAEC

OPERATORS:
M. RUBY
D. HOPPER

Tool String Schematic

Total Tool Length - 43.91 **ft.**
Maximum Outside diameter - 4.80 **in.**
Net Weight in Air - 743.00 **lbs.**



Tool: GRT-B **Length:** 3.40 **ft.** **O.D.** 3.60 **in.**
Gamma Ray Controller
Sonde ID :GRT-BA-14

Measure Point	Tool Offset	Stack Offset	Bottom Offset
GRP	2.00	2.00	41.91

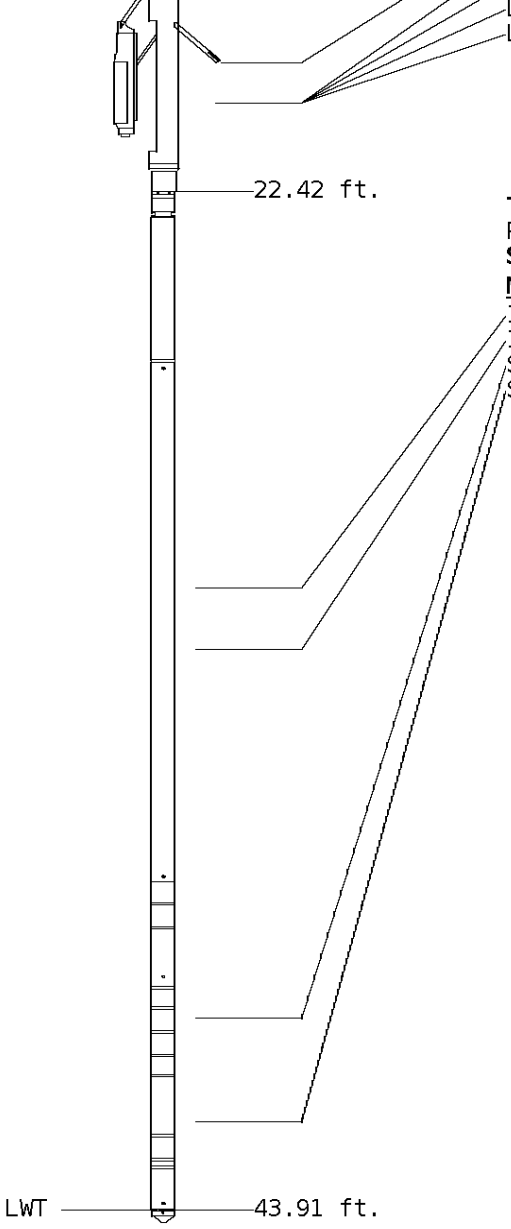
Tool: CNT-AA **Length:** 9.30 **ft.** **O.D.** 4.36 **in.**
Compensated Neutron A Pad on NDT-A
Sonde ID :NDT-BB-129
Source ID :N-1045
Pad ID :CNP-AA-112

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLCN	6.00	9.40	34.51
PHIN	6.80	10.20	33.71

Tool: LDT-DF **Length:** 9.72 **ft.** **O.D.** 4.80 **in.**
Litho Density D Pad on NDT-F
Sonde ID :PDT-GA-464
Source ID :2991GW
Pad ID :LDP-DA-065

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLLD	6.42	19.12	24.79
PEL	7.42	20.12	23.79
PES	7.82	20.52	23.39

LDEN	7.62	20.32	23.59
LCOR	7.62	20.32	23.59



Tool: PIT-CA **Length:** 21.49 **ft.** **O.D.** 3.62 **in.**
Phased Dual Induction w/ RM & D
Sonde ID :PIT-AC-22

Measure Point	Tool Offset	Stack Offset	Bottom Offset
ILD	8.92	31.34	12.56
ILM	10.10	32.52	11.39
SFLU	17.49	39.91	4.00
SP	20.60	43.02	0.88

Well File: LACH_ELM_L-1_NOV_11_STK **Scale:** 1:240
Segment: V1.D2.S2 repeat **Acquired:** 2012-11/11 01:49 3.2.0-11087
Reference: 0 **Processed:** 2012-11/11 01:49 3.2.0-11087

BIT SIZE
INCHES (IN)
6 — 16

NEUTRON (Y) CALIPER
INCHES (IN)
16 — 26
6 — 16

DENSITY (X) CALIPER
INCHES (IN)
16 — 26
6 — 16

Volume
Quartz
Volume
Calcite
Volume
Dolo/Shale

DENSITY POROSITY (2.87g/cc)
PERCENT
70 — 30
30 — -10
-10 — -50

TENSION
LBS
10000 — 0

SHALLOW FOCUSED RESISTIVITY
OHMM
0.2 — 2000.0

NEUTRON POROSITY (DOLOMITE)
PERCENT
70 — 30
30 — -10
-10 — -50

SPONTANEOUS POTENTIAL
mV
→| |←20

DEEP INDUCTION
OHMM
0.2 — 2000.0

DENSITY CORRECTION
G/CC
-0.75 — 0.25

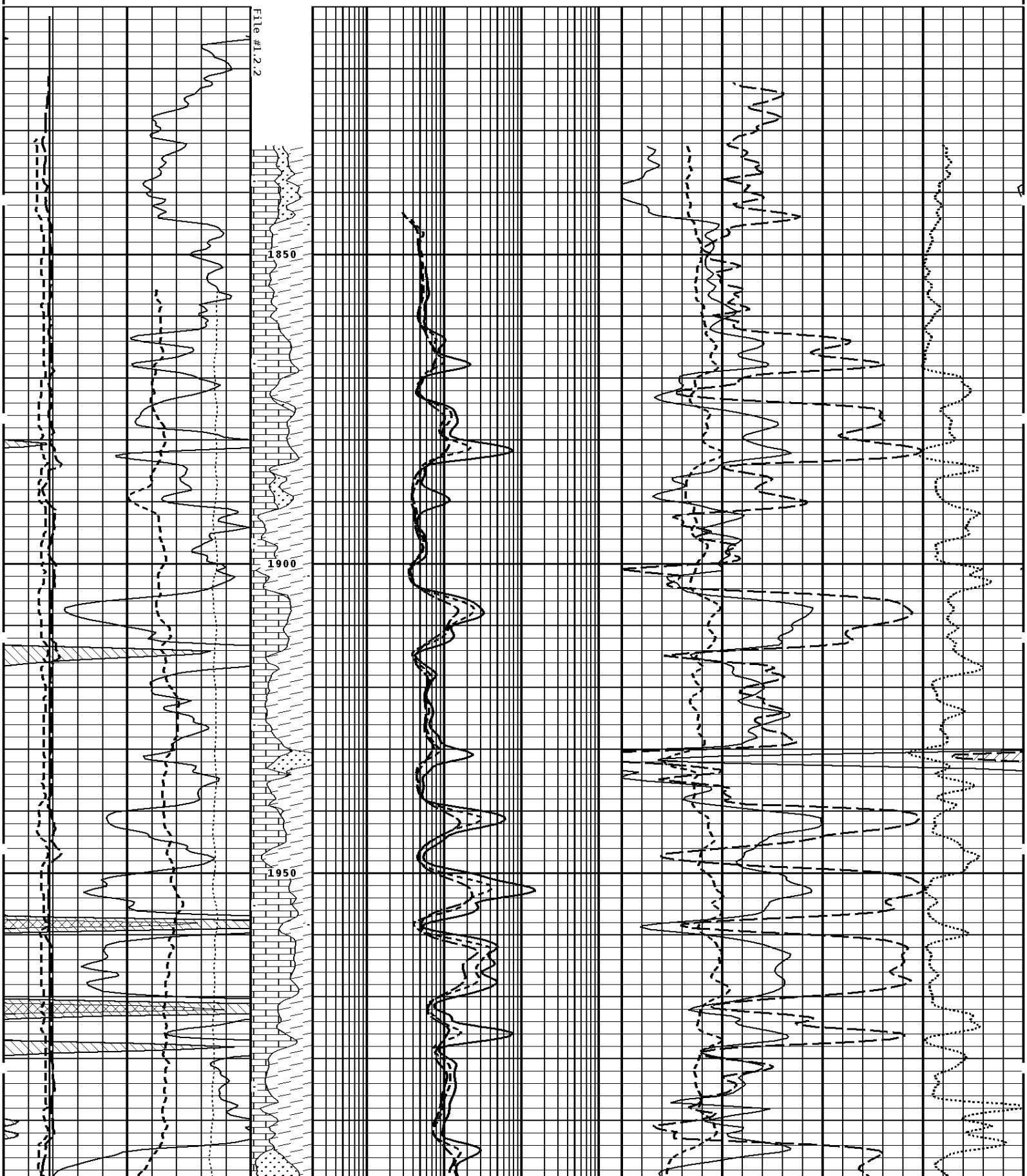
GAMMA RAY
API UNITS
150 300
0 150

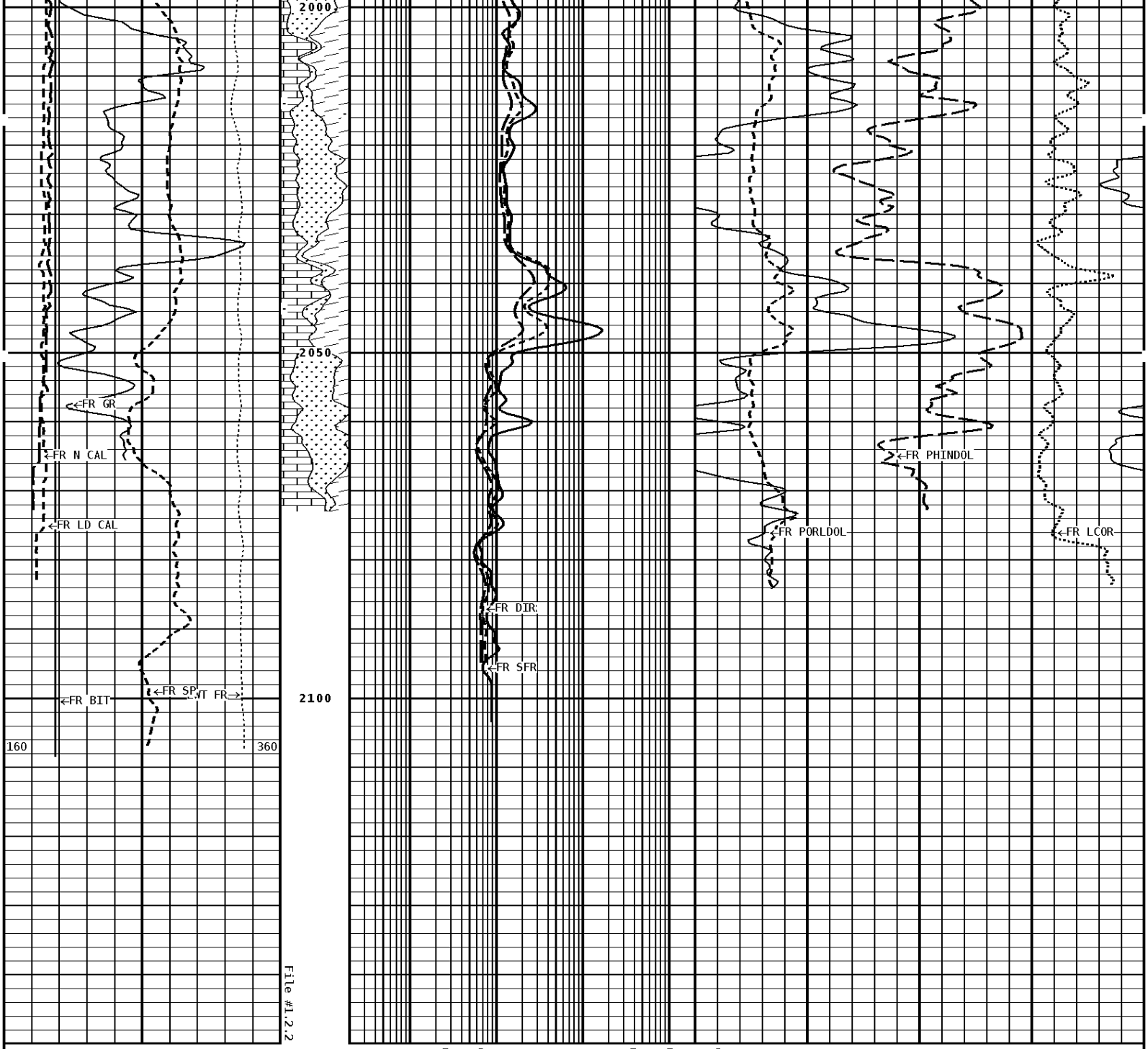
-BHV AHV-
CU.FT

MEDIUM INDUCTION
OHMM
0.2 2000.0

PE CROSS-SECTION
BARNS/ELECTRON
0 20

1:240 REPEAT SECTION





1:240 REPEAT SECTION

GAMMA RAY **API UNITS** 150 300 0 150	-BHV AHV- CU.FT	**MEDIUM INDUCTION** **OHMM** 0.2 2000.0	**PE CROSS-SECTION** **BARNS/ELECTRON** 0 20
SPONTANEOUS POTENTIAL **mV** → ←20	Volume Dolo/Shale	**DEEP INDUCTION** **OHMM** 0.2 2000.0	**DENSITY CORRECTION** **G/CC** -0.75 0.25
TENSION **LBS** 10000 0	Volume Calcite	**SHALLOW FOCUSED RESISTIVITY** **OHMM** 0.2 2000.0	**NEUTRON POROSITY (DOLOMITE)** **PERCENT** 70 30 30 -10 -10 -50
DENSITY (X) CALIPER **INCHES (IN)** 16 26	Volume Quartz		**DENSITY POROSITY (2.87g/cc)** **PERCENT** 70 30

6	16

30	-10
-10	-50

NEUTRON (Y) CALIPER INCHES (IN)	
16	26
6	16

BIT SIZE INCHES (IN)	
6	16

Tucker ENERGY SERVICES

Company: LACHENMAYR OIL LLC

Well: ELMDALE CEMETARY ASSOCIATION #L-1

Location: 2310' FNL & 460' FWL

Logged: 2012-11-11

K.B. Elev: 1363.0