217-22803

Century GEOPHYSICAL CORP.
century-geo.com

DUAL INDUCTION LOG
#4 IDA CHILDRENS TRUST

COMPANY	PALO PETROLEUM, INC	OTHER SERVICES:	IND
WELL	#4 IDA CHILDRENS TRUST		
FIELD			
COUNTY	VERNON		
STATE	MISSOURI		
LOCATION	2340' FSL & 1897' FWL		
SECTION	3		
TOWNSHIP	35N		
RANGE	33W		
API NO.	217-22803		
UNIQUE WELL ID.	NA		
PERMANENT DATUM	G.L.	ELEVATION KB	NA
LOG MEASURED FROM G.L.		ELEVATION DF	NA
DRL MEASURED FROM G.L.		ELEVATION GL	785.39
DATE	07/14/11	RIG NUMBER	
DEPTH DRILLER	254	LOGGER TD	
BIT SIZE	6.125	ARRIVAL TIME	
LOG TOP	0.20	DEPARTURE TIME	
LOG BOTTOM	253.30	CIRC STOPPED	NA
CASING OD	8 5/8		
CASING BOTTOM	42'		
CASING TYPE	STEEL		
BOREHOLE FLUID	F.W.		
RM TEMPERATURE	107		
MUD RES	3.2		
MUD WEIGHT	8.3		
WITNESSED BY	MR FREW		
RECORDED BY	K RUNNELS		
REMARKS 1			
REMARKS 2			

RECEIVED NOV 07 2011 Mo Oil & Gas Council

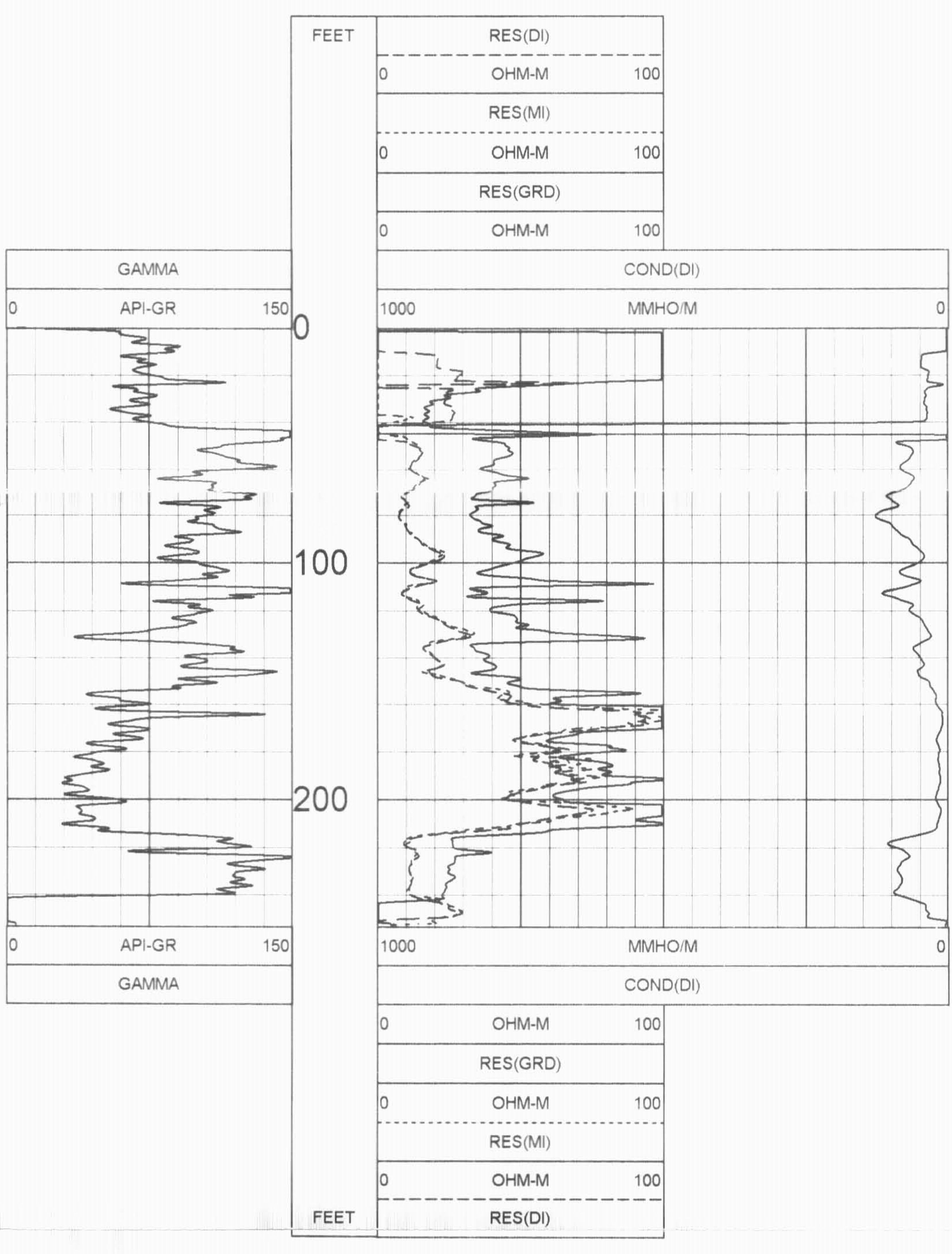
7/14/12

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

2 INCH LOG, DUAL INDUCTION #4 IDA CHILDRENS TRUST 07/14/11

LOG PARAMETERS

MATRIX DENSITY : 2.65 | NEUTRON MATRIX : SANDSTONE | MATRIX DELTA T : 54
MAGNETIC DECL : 0 | ELECT. CUTOFF : 10000 | BIT SIZE : 6.125
PRESENTATION NAME/DATE = 0 A 9541k CWS AIR ALL 2 Inch 0 03/17/2011 | VERSION = 3.64IF



2 INCH LOG, DUAL INDUCTION #4 IDA CHILDRENS TRUST 07/14/11

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5 INCH LOG, DUAL INDUCTION #4 IDA CHILDRENS TRUST 07/14/11

LOG PARAMETERS

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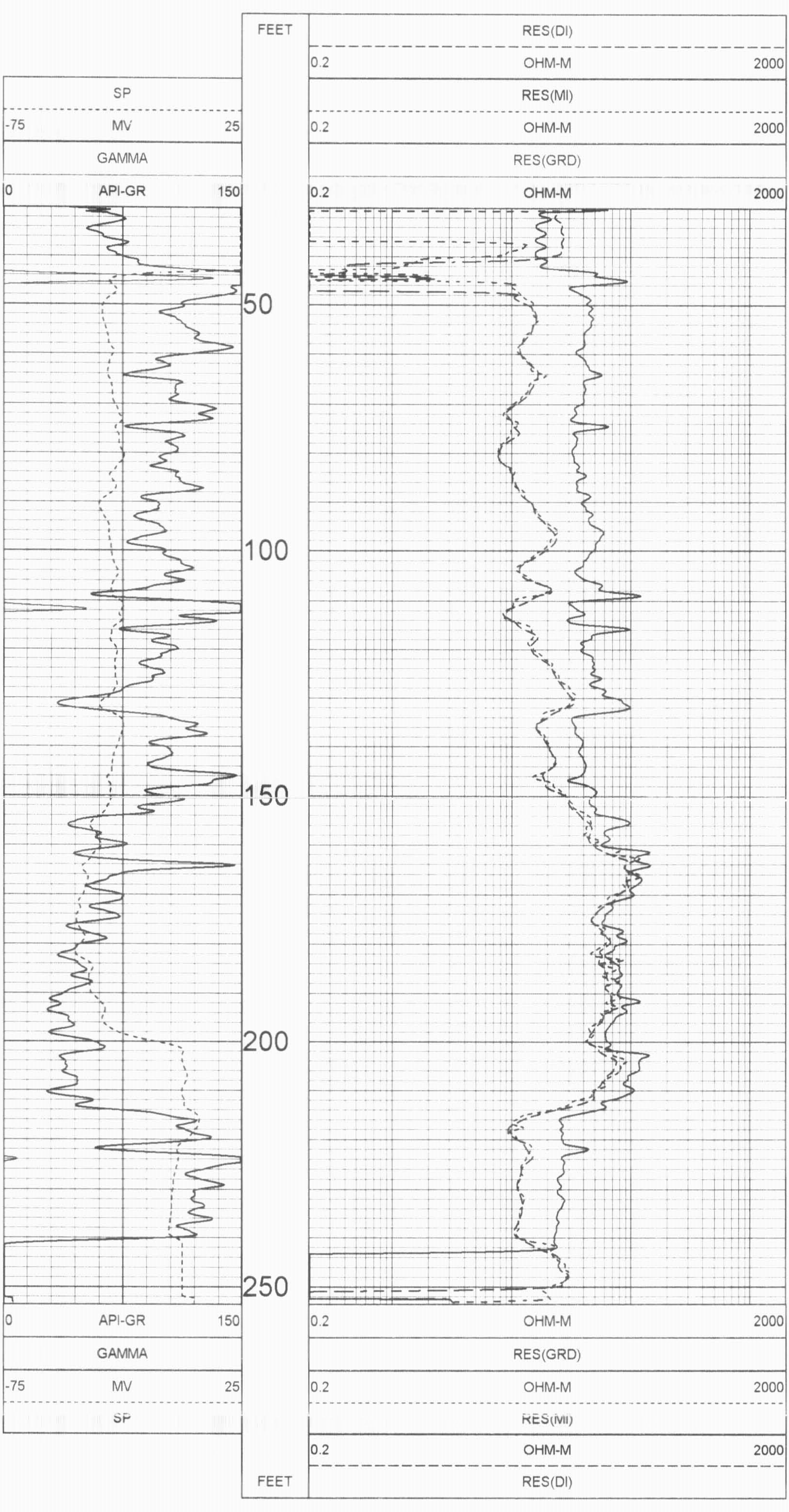
MAGNETIC DECL : 0 | ELECT. CUTOFF : 10000 | BIT SIZE : 6.125
PRESENTATION NAME/DATE = 0 A Tulsa DIL PALO Drilled 5 Inch KAIII 0 07/14/2011 | VERSION = 3.64IF



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5 " INDUCTION REPEAT #4 IDA CHILDRENS TRUST 07/14/11

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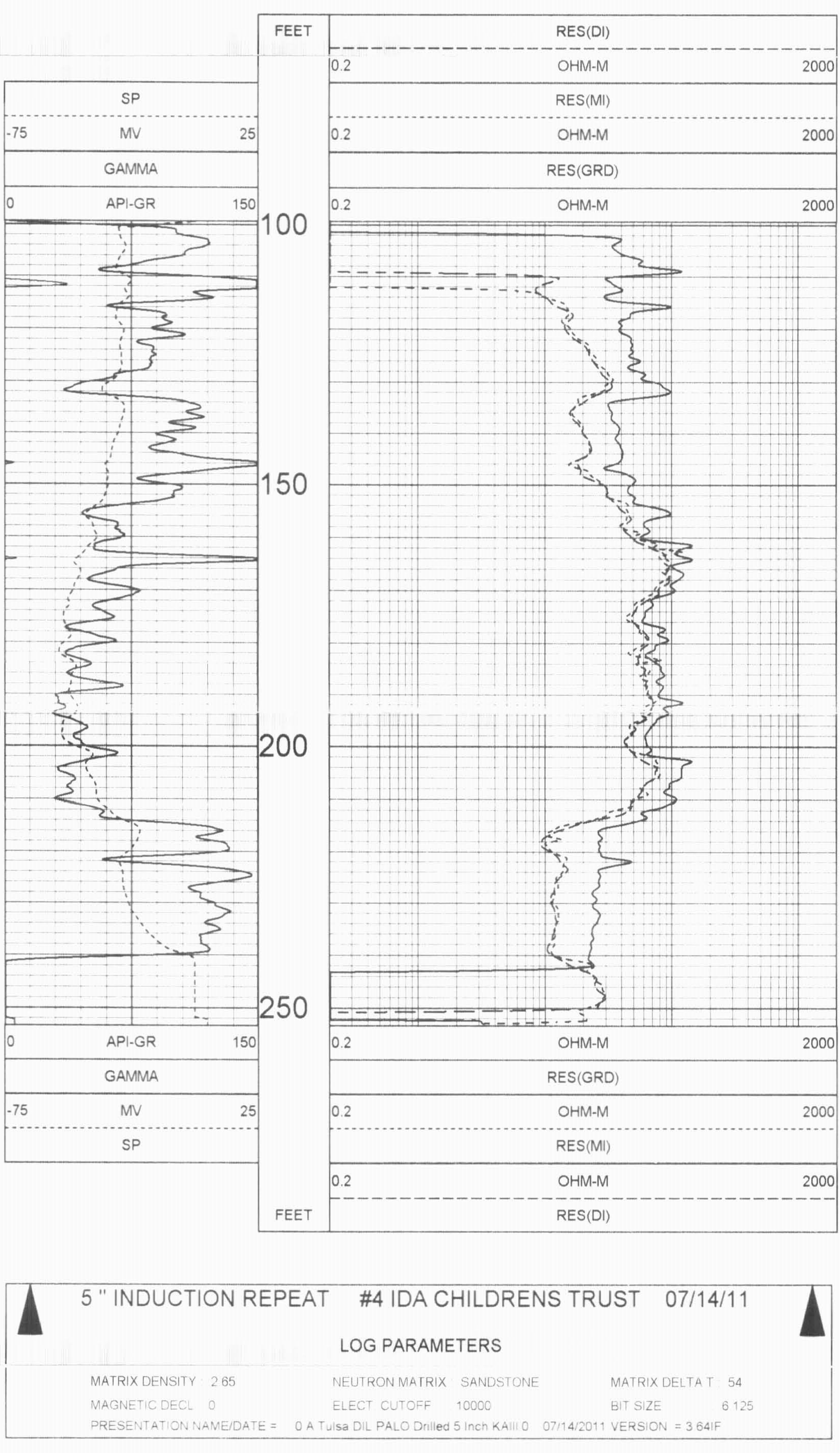

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TOOL CALIBRATION #4 IDA CHILDRENS TRUST 07/14/11 18:15
TOOL 9541 TM VERSION 2
SERIAL NUMBER 456

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Mar15,11	16:34:30	COND(DI	14.000	[MMHO/M]	71710.000	[CPS]
	Mar15,11	16:34:30	COND(D	130.000	[MMHO/M]	81590.000	[CPS]
2	Mar15,11	16:35:13	COND(MI	14.000	[MMHO/M]	74350.000	[CPS]
	Mar15,11	16:35:13	COND(M	130.000	[MMHO/M]	78450.000	[CPS]
3	Mar15,11	16:35:37	GAMMA	1.000	[API-GR]	1.000	[CPS]
	Mar15,11	16:35:37	GAMMA	150.000	[API-GR]	200.000	[CPS]
4	Mar15,11	16:36:18	RES(GRD	0.000	[OHM-M]	5341.000	[CPS]
	Mar15,11	16:36:18	RES(GR	1540.000	[OHM-M]	63493.000	[CPS]
5	Mar15,11	16:36:58	SP	-485.000	[MV]	6739.000	[CPS]
	Mar15,11	16:36:58	SP	489.000	[MV]	118617.000	[CPS]
6	Mar15,11	16:33:46	A	Default	[CPS]		
7	Mar15,11	16:33:46	B	Default	[CPS]		
8	Mar15,11	16:33:46	X	Default	[CPS]		
9	Mar15,11	16:33:46	Y	Default	[CPS]		