APPENDIX H

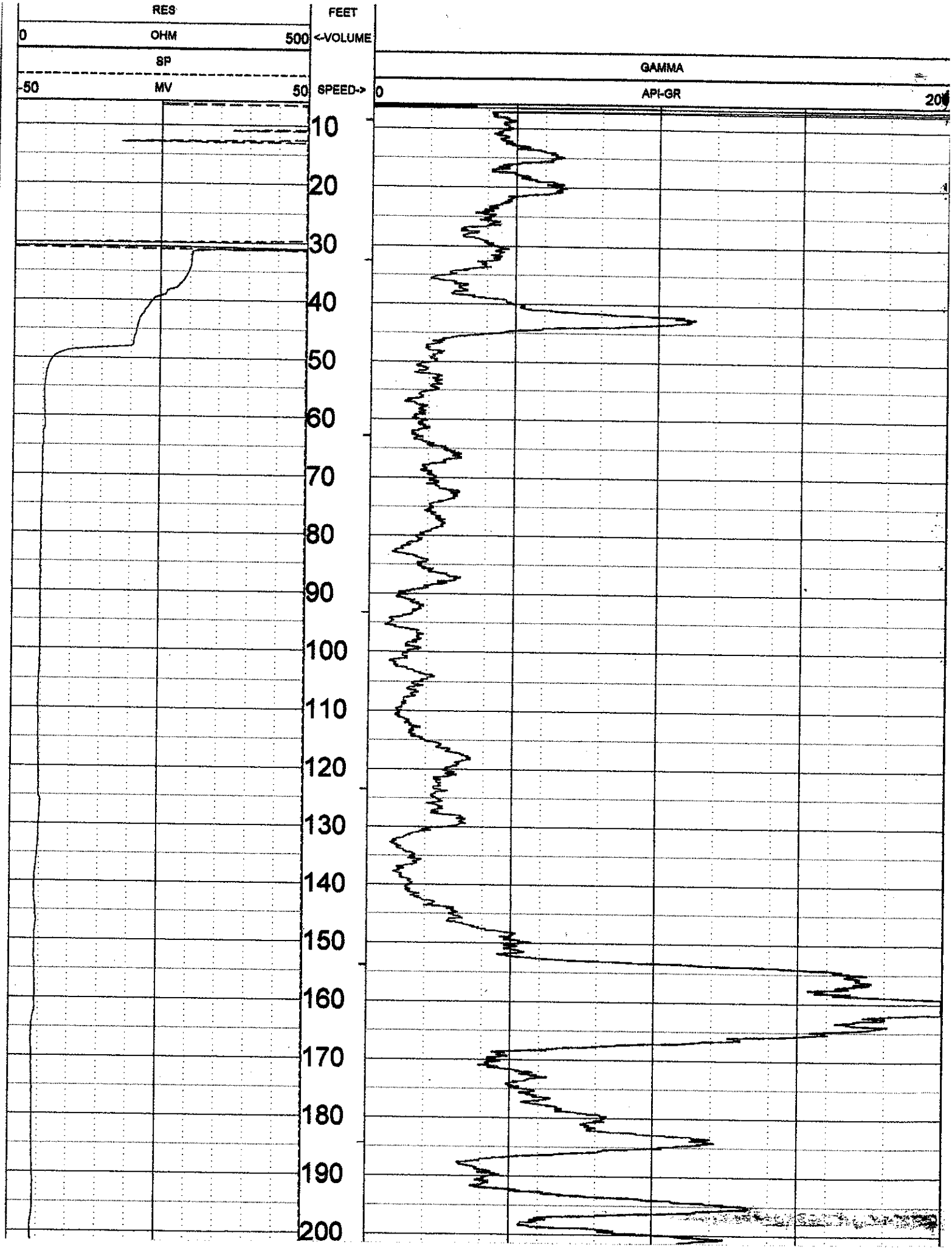
GEOPHYSICAL LOGS

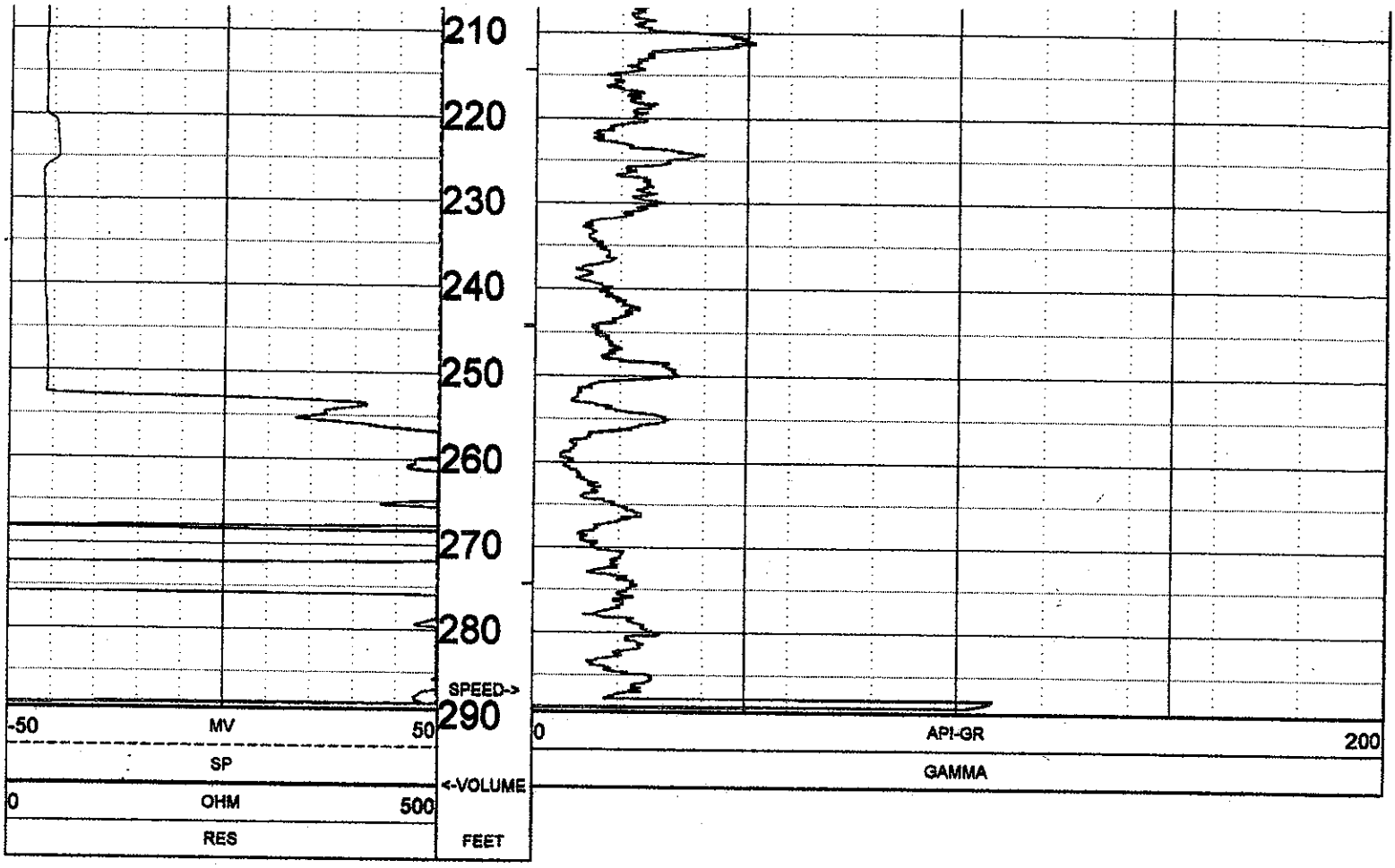
Minnesota Geological
University of Minnesota
2642 University Avenue
St. Paul MN 55114
Dept. Phone:(612)627-4780

717787

NAME	: CRA NORTH OAKS (mw-17L)			OTHER SERVICES:	
UNIQUE NUMBER	: 717787				
QUADRANGLE	: WHITE BEAR LAKE WEST 119-D				
COUNTY	: RAMSEY				
LOCATIONON	: DBCDCD				
SECTION	: 17	TOWNSHIP	: 30	RANGE	: 22
DATE	: 10/25/05	MGS CUTTINGS #	:		
API NO. BOTTOM	: 253			KB	:
LOG BOTTOM	: 289.10	LOG MEASURED FROM:		DF	:
LOG TOP	: 5.90	DRL MEASURED FROM:		GL	: 917 5
CASING DIAMETER	: 4	LOGGING UNIT	:		
CASING TYPE	:	FIELD OFFICE	: O'DRISCOLL		
CASING THICKNESS	:	RECORDED BY	: DOSCH		
RUN NO.	: 1				
BIT SIZE	: 10	BOREHOLE FLUID	: 0	FILE	: PROCESSED
MAGNETIC DECL.	: 0	RM	: 0	TYPE	: 9060A
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0		
NEUTRON MATRIX	: Dolomite	MATRIX DELTA T	: 54		
CASING OD	: 4			THRESH:	2500
SWL	: 30				

WITNESSED BY : ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS


RES
0
OHM
500
SP
-50
MV
50
FEET
<-VOLUME
SPEED->
GAMMA
0
API-GR
200
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200


210
220
230
240
250
260
270
280
SPEED->
290
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MV
50
SP
0
OHM
500
RES
<-VOLUME
FEET
0
API-GR
200
GAMMA

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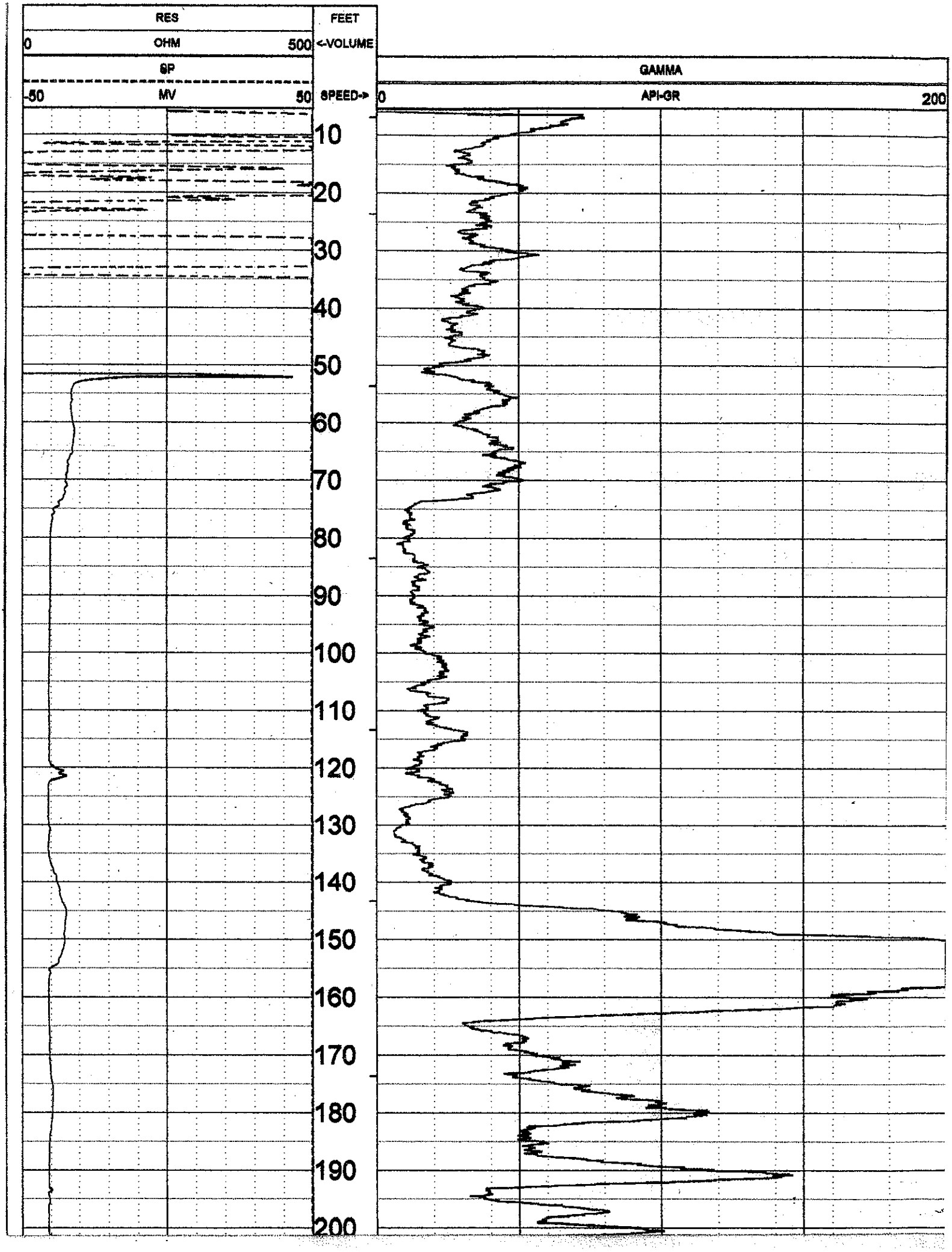
717799

NAME	: MW-19L				
UNIQUE NUMBER	: 717799				
QUADRANGLE	: WHITE BEAR LAKE WEST 119-D				
COUNTY	: RAMSEY				
LOCATIONON	: DAACBA				
SECTION	: 18	TOWNSHIP	: 30	RANGE	: 22
DATE	: 01/11/06	MGS CUTTINGS #	:		
API NO. BOTTOM	: 257			KB	:
LOG BOTTOM	: 260.90	LOG MEASURED FROM:		DF	:
LOG TOP	: 5.50	DRL MEASURED FROM:		GL	: 912 5
CASING DIAMETER	: 4	LOGGING UNIT	:		
CASING TYPE	:	FIELD OFFICE	: O'DRISCOLL		
CASING THICKNESS		RECORDED BY	: BLOOMGREN		
RUN NO.	: 1				
BIT SIZE	: 10	BOREHOLE FLUID	: 0	FILE	: ORIGINAL
MAGNETIC DECL.	: 0	RM	: 0	TYPE	: 9060A
MATRIX DENSITY	: 2.71	RM TEMPERATURE	: 0		
NEUTRON MATRIX	: Dolomite	MATRIX DELTA T	: 54		
CASING OD	: 4			THRESH:	2500
SWL	: 52				

OTHER SERVICES:

WITNESSED BY : ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS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SP
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MV
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FEET
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SPEED->
GAMMA
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API-GR
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190
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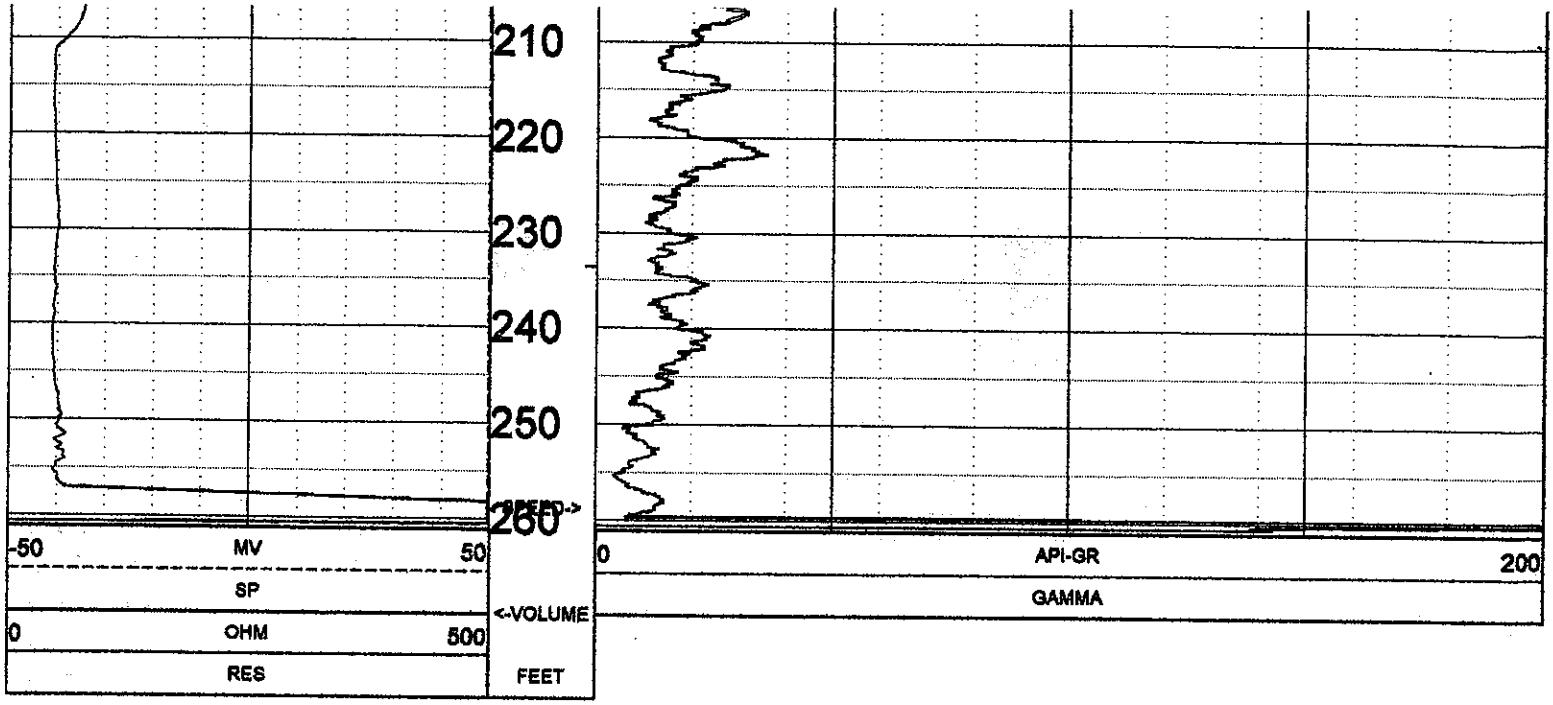
210
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OHM
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API-GR
200
GAMMA