

COMPANY Bendix
PROPERTY MD-5A
AREA Adel Quad
COUNTY McDermitt Caldera
LOCATION SE 1
SEC 30 **TWP** 40S **RGE** 41E
STATE OR
CLAIM Not Available
PROBE NO. 9055A - 233
PROBE DIA. 1 7/8"

EQUIPMENT DATA
NUCLEAR
 Run No. 2
 Log Type Gamma Neutron
 Channel NaI He3
 Detector 7/8" x 4" 1" x 4"
 Source NA 1.0
 Scramming NA 1A"
 Amp. G. NA 1A"
 Phy. L. NA
 K-Factor Digital
 Scale 5.49 x 10⁻³
 Resolution 5.89 x 10⁻³
 Modulation 32 ussec
 Drive Cable NA
 Counting Rate 12-31-80
 Counting Factor -

BOREHOLE RECORD
 Run No. 2
 Log Type SP Resistance
 Wellhead Spacing NA Single PL
 SP Reference Ground
 SP Offset -40 mV
 Cable Length -
 Run No. 2
 Log Type DL TL
 Mag. Decl. 18.0°

CASING RECORD
 Size (OD/ID) Wpt From To
 4.5" / 4.0" 0 42'

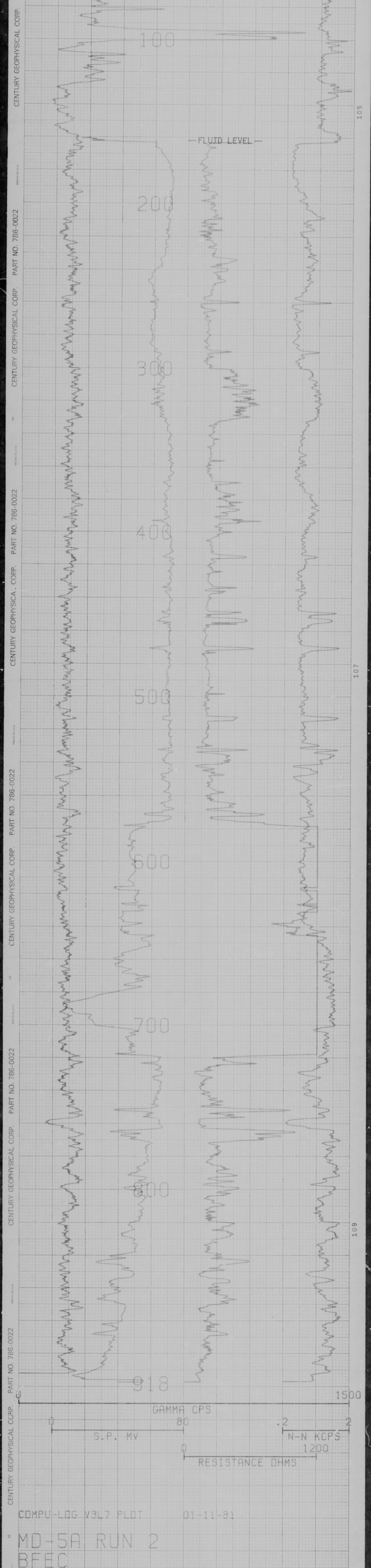
LOGGING DATA

Core Type	Log Type	Depth From	Depth To	Footage Logged	Spindle Turns	Length Scale	Scale Limits Div	Pen Zero Div	Digital Term	Ramp PS
142	2	Gamma	912'	5'	997'	60	20' / in	20 cps	0	"
2	2	SP	917'	162'	755'	"	"	150 cps	0	"
2	2	Resistance	917'	162'	755'	"	"	300 Ω	5R	"
2	2	Neutron	917'	10'	907'	"	"	900 cps	8R	"
2	2	V. Dev.	918'	0	918'	"	"	-	-	50'
2	2	Temp.	918'	15'	903'	"	"	-	-	5.0'
142	3	Gamma	153'	53'	100'	60	20' / in	150 cps	0	"
3	3	Neutron	158'	58'	100'	"	"	900 cps	8R	"

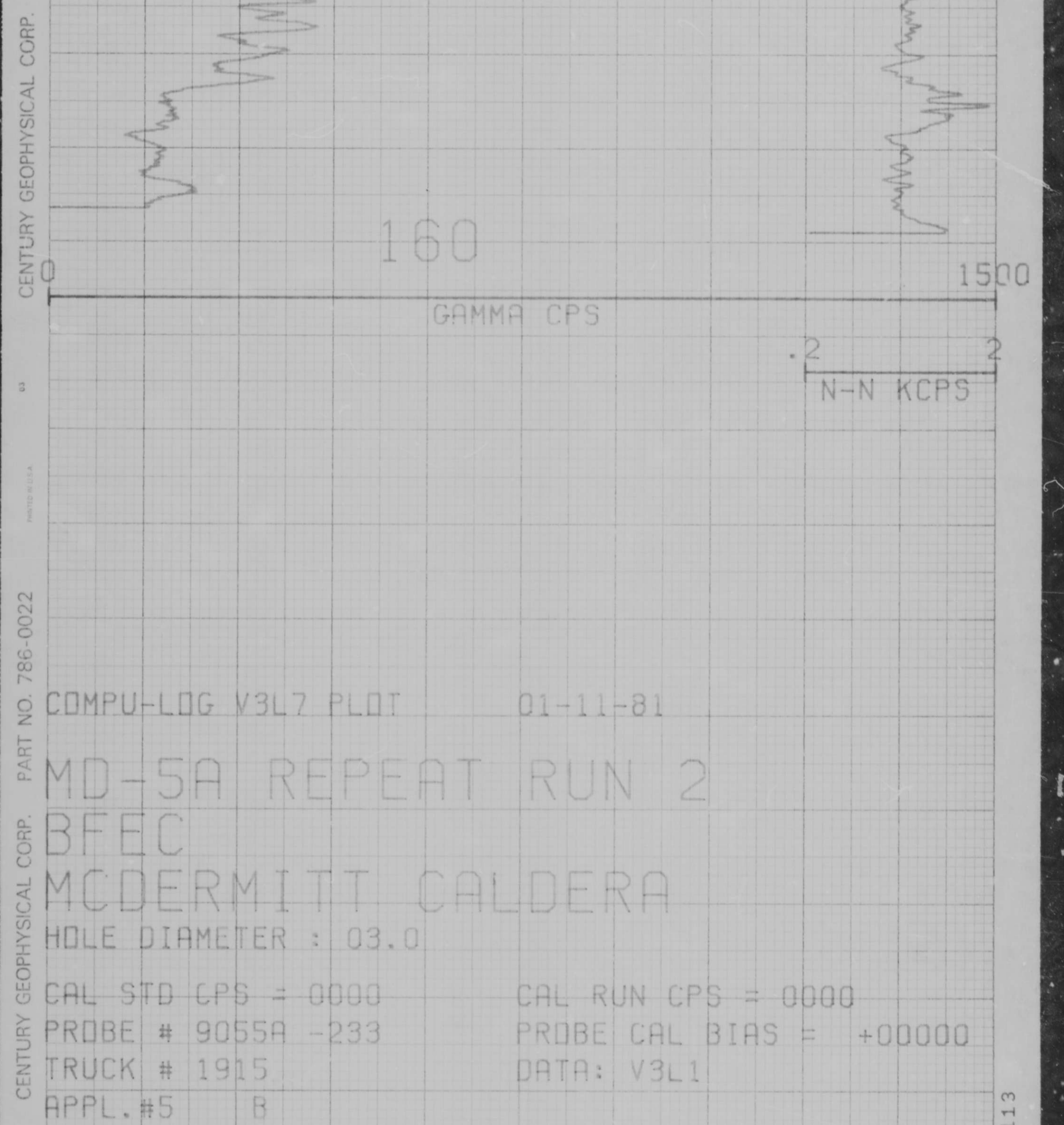
TIME RECORD
 Run 0415
 Stop 0530
 Total 1.25 hr 0

REMARKS: Open hole log after casing was pulled.
 Fluid level determined from E-logs.
 One grade run with 0.1% cutoff.
 Resistance log between 578' and 718' is accurate, the formation is apparently extremely resistant, no scale would have character.

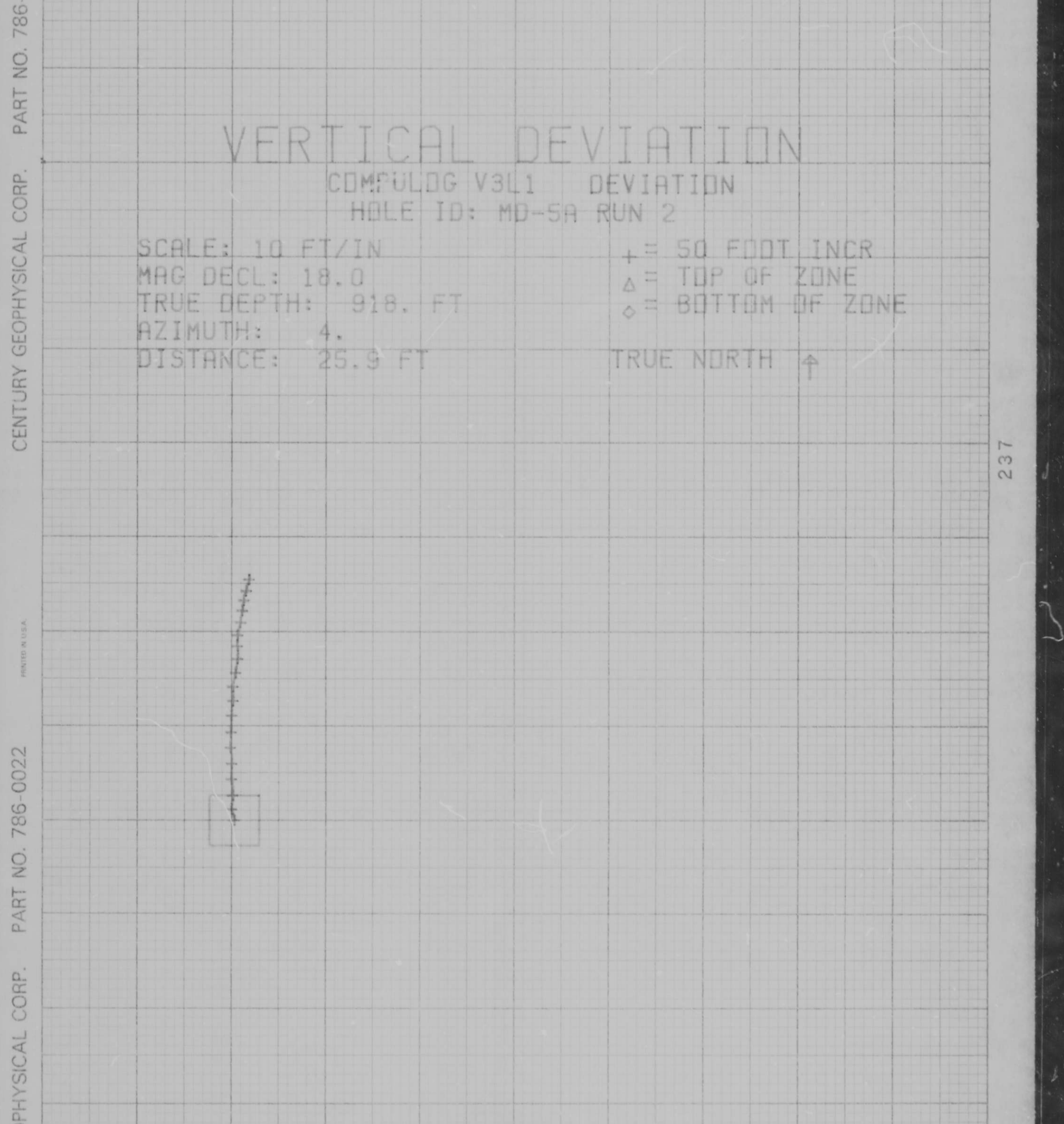
Total Footage Logged 5345'



COMPU-LOG V3L7 PLOT 01-11-81
 MD-5A RUN 2
 BFEC
 MCDERMITT CALDERA
 HOLE DIAMETER : 03.0
 CAL STD CPS = 0000 CAL RUN CPS = 0000
 PROBE # 9055A -233 PROBE CAL BIAS = +00000
 TRUCK # 1915 DATA: V3L1
 APPL.#5 B
 DP/PAG

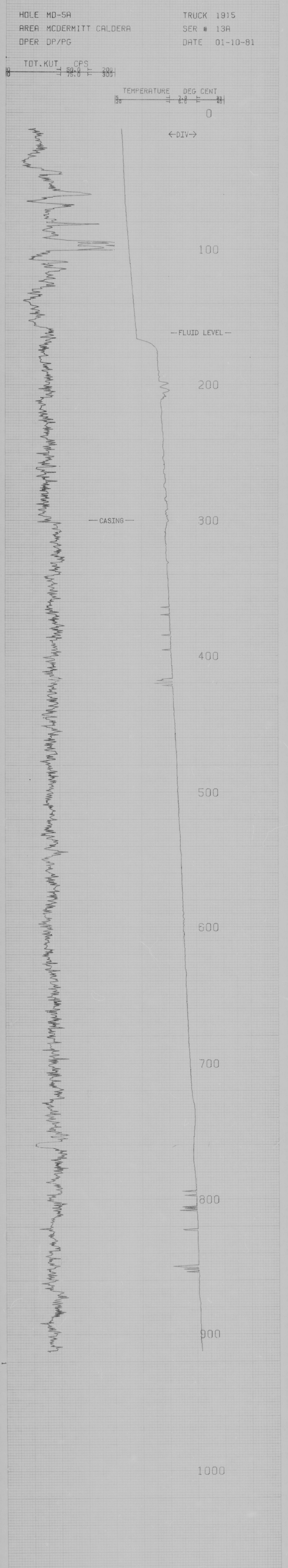


COMPU-LOG V3L7 PLOT 01-11-81
 MD-5A REPEAT RUN 2
 BFEC
 MCDERMITT CALDERA
 HOLE DIAMETER : 03.0
 CAL STD CPS = 0000 CAL RUN CPS = 0000
 PROBE # 9055A -233 PROBE CAL BIAS = +00000
 TRUCK # 1915 DATA: V3L1
 APPL.#5 B



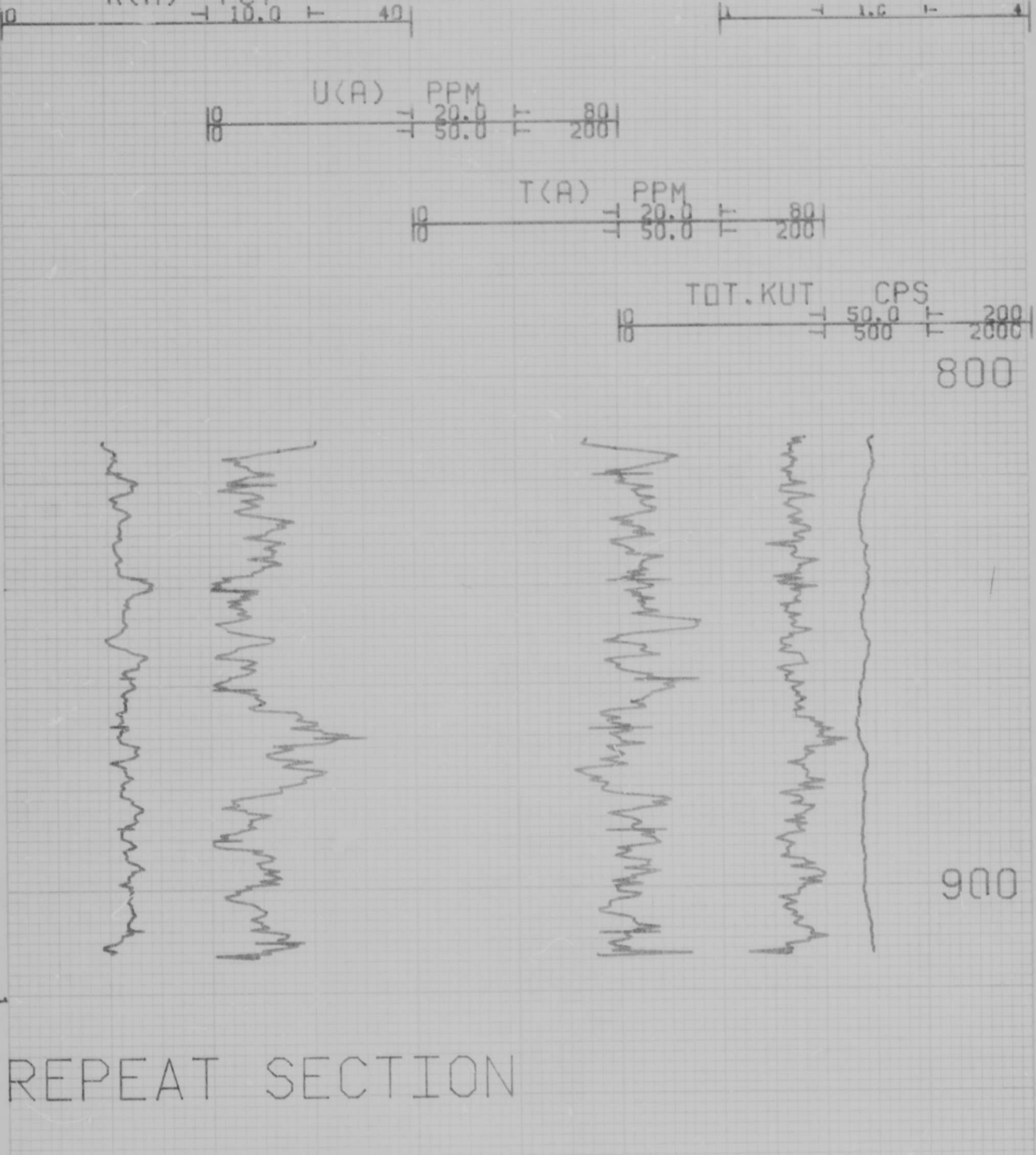
VERTICAL DEVIATION
 COMPU-LOG V3L1 DEVIATION
 HOLE ID: MD-5A RUN 2
 SCALE: 10 FT/IN ± 50 FOOT INCR
 MAG DECL: 18.0 Δ = TOP OF ZONE
 TRUE DEPTH: 918. FT Δ = BOTTOM OF ZONE
 AZIMUTH: 4. TRUE NORTH ↑
 DISTANCE: 25.9 FT

Bendix Field Engineering Corporation Field Station Operators P.O. Box 1569 Grand Junction, CO 81502		KUT Caliper, Temperature		Date 1-11-81 Truck No 15 Operator Pickering/Gregson																																																																																																																																																																																																																													
COMPANY Bendix HOLE ME-5A CLAIM Not available PROPERTY Ad-1 Quad AREA McDermitt Caldera COUNTY Malheur STATE OR		EQUIPMENT DATA Probe No. 251A-13 Probe Len. 2 1/8' NUCLEAR Run No. 1 Log Type KUT Detector NaI Detector Size 1 1/2" x 12" Source Type NA Source Strength NA Source Energy NA Probe Dia. 7.5 x 4 Cable Length NA K-factor Digital K = .232 U = 1.659 T = 7.916 (Large Xtal) K-factor Analog - Detector Analog - Detector Digital - Detector Analog - Cable Length - Date Cased 12-17-80 Casing Factor -																																																																																																																																																																																																																															
LOCATION SEC 30 TWP 40S R1E 41E Permanent Datum Ground Level Elev. 5663' Log Measured From GL 0 Ft Above Perm Datum Drilling Measured From GL Elev. 5663'		CASING RECORD <table border="1"> <tr><td>Size (OD/ID) Wgt</td><td>From</td><td>To</td></tr> <tr><td>4.5"/4.0"</td><td>0</td><td>42'</td></tr> <tr><td>3.5"/3.0"</td><td>0</td><td>300'</td></tr> </table>			Size (OD/ID) Wgt	From	To	4.5"/4.0"	0	42'	3.5"/3.0"	0	300'																																																																																																																																																																																																																				
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Remarks: Run #1 was pulled before casing was retrieved from well.		TIME RECORD <table border="1"> <tr><td>Start</td><td>20:30</td></tr> <tr><td>End</td><td>03:00</td></tr> <tr><td>Total</td><td>6.5 hrs.</td></tr> <tr><td>Standby</td><td>0</td></tr> </table>			Start	20:30	End	03:00	Total	6.5 hrs.	Standby	0																																																																																																																																																																																																																					
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Main log was plotted after data was reprocessed due to excessive negative values. Temperature spikes in log are an unresolved electronic problem. Data reprocessed from TDC-179, Tk 4 to TDC-632, Tk 2; TDC-142, Tk 1 to TDC 634, Tk 1.		LOGGING DATA <table border="1"> <thead> <tr> <th>Cart No.</th> <th>Tr</th> <th>Log Type</th> <th>Depth From</th> <th>Depth To</th> <th>Footage Logged</th> <th>Speed Ft/Min</th> <th>Depth Scale</th> <th>Sens Units/Div</th> <th>Pen Zero Div L</th> <th>Digital Time</th> <th>Digital Unit</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>632</td> <td>2</td> <td>TOT. KUT Temp.</td> <td>913</td> <td>11</td> <td>902</td> <td>18</td> <td>20"/in</td> <td>50 cps 7.0°C</td> <td>0 4</td> <td></td> <td>.5"</td> <td>Main Log Down</td> </tr> <tr> <td></td> <td>2</td> <td>K</td> <td>913'</td> <td>812</td> <td>101</td> <td>5</td> <td>20"/in</td> <td>10 Pct</td> <td>0</td> <td></td> <td>.5'</td> <td>Repeat Section Up</td> </tr> <tr> <td></td> <td></td> <td>U</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>20 ppm</td> <td>2</td> <td></td> <td>"</td> <td></td> </tr> <tr> <td></td> <td></td> <td>T</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>20 ppm</td> <td>4</td> <td></td> <td>"</td> <td></td> </tr> <tr> <td></td> <td></td> <td>TOT. KUT</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>50 cps</td> <td>6</td> <td></td> <td>"</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Caliper</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>1 inch</td> <td>7</td> <td></td> <td>"</td> <td></td> </tr> <tr> <td>634</td> <td>1</td> <td>K</td> <td>914</td> <td>11</td> <td>903</td> <td>5</td> <td>20"/in</td> <td>3 Pct</td> <td>0</td> <td></td> <td>.5'</td> <td>Main Log-up</td> </tr> <tr> <td></td> <td></td> <td>U</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>10 ppm</td> <td>2</td> <td></td> <td>"</td> <td></td> </tr> <tr> <td></td> <td></td> <td>T</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>10 ppm</td> <td>4</td> <td></td> <td>"</td> <td></td> </tr> <tr> <td></td> <td></td> <td>TOT. KUT</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>50 cps</td> <td>6</td> <td></td> <td>"</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Caliper</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>1 inch</td> <td>7</td> <td></td> <td>"</td> <td></td> </tr> <tr> <td></td> <td>1</td> <td>K</td> <td>200</td> <td>11</td> <td>189</td> <td>5</td> <td>20"/in</td> <td>5PCT</td> <td>0</td> <td></td> <td>.5'</td> <td>Replot for best scales.</td> </tr> <tr> <td></td> <td></td> <td>U</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>100 ppm</td> <td>2</td> <td></td> <td>"</td> <td></td> </tr> <tr> <td></td> <td></td> <td>T</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>10 ppm</td> <td>4</td> <td></td> <td>"</td> <td></td> </tr> <tr> <td></td> <td></td> <td>TOT. KUT</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>50 CPS</td> <td>6</td> <td></td> <td>"</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Caliper</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>1.0 inch</td> <td>7</td> <td></td> <td>"</td> <td></td> </tr> </tbody> </table>			Cart No.	Tr	Log Type	Depth From	Depth To	Footage Logged	Speed Ft/Min	Depth Scale	Sens Units/Div	Pen Zero Div L	Digital Time	Digital Unit	Remarks	632	2	TOT. KUT Temp.	913	11	902	18	20"/in	50 cps 7.0°C	0 4		.5"	Main Log Down		2	K	913'	812	101	5	20"/in	10 Pct	0		.5'	Repeat Section Up			U	"	"	"	"	"	20 ppm	2		"				T	"	"	"	"	"	20 ppm	4		"				TOT. KUT	"	"	"	"	"	50 cps	6		"				Caliper	"	"	"	"	"	1 inch	7		"		634	1	K	914	11	903	5	20"/in	3 Pct	0		.5'	Main Log-up			U	"	"	"	"	"	10 ppm	2		"				T	"	"	"	"	"	10 ppm	4		"				TOT. KUT	"	"	"	"	"	50 cps	6		"				Caliper	"	"	"	"	"	1 inch	7		"			1	K	200	11	189	5	20"/in	5PCT	0		.5'	Replot for best scales.			U	"	"	"	"	"	100 ppm	2		"				T	"	"	"	"	"	10 ppm	4		"				TOT. KUT	"	"	"	"	"	50 CPS	6		"				Caliper	"	"	"	"	"	1.0 inch	7		"	
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HOLE MD-5A
AREA MCDERMITT CALDERA
OPER DP/PG

TRUCK 1915
SER # 13A
DATE 01-10-81

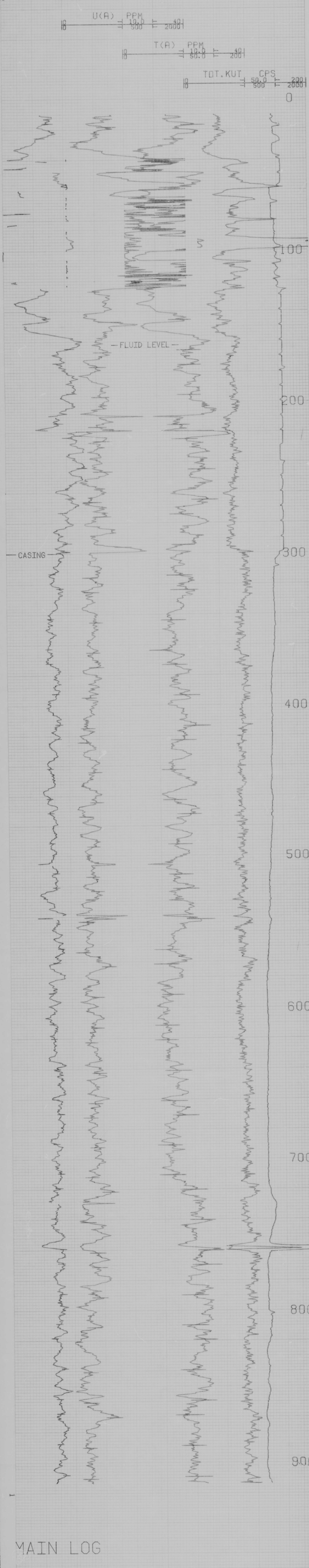


REPEAT SECTION

1000

HOLE MD-5A
AREA MCDERMITT CALDERA
OPER DP/PG

TRUCK 1915
SER # 13A
DATE 01-10-81

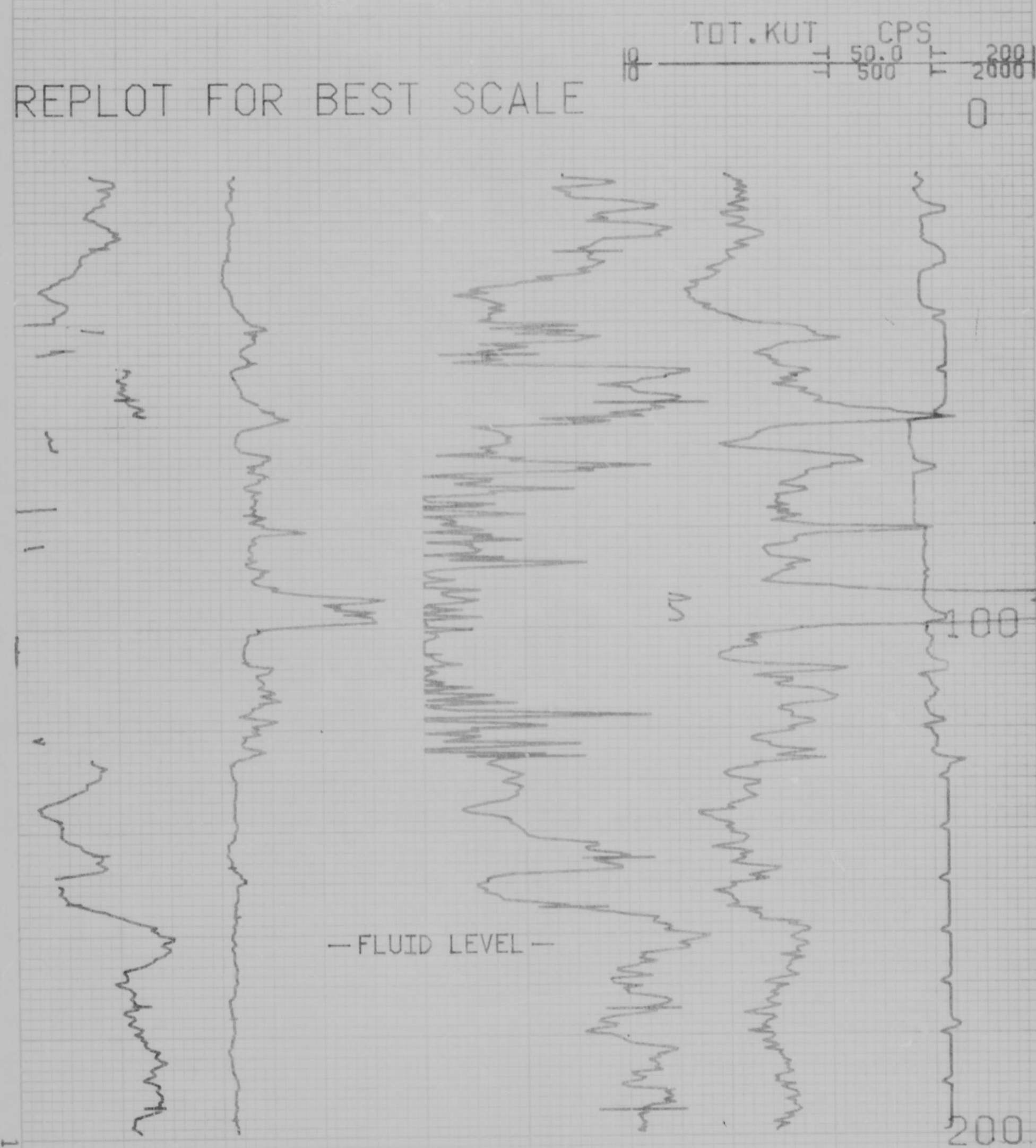


MAIN LOG

1000

HOLE MD-5A
AREA MCDERMITT CALDERA
OPER DP/PG

TRUCK 1915
SER # 13A
DATE 01-10-81



RELOT FOR BEST SCALE

COMPANY Bendix		EQUIPMENT DATA Probe Ser. 251A-13	
HOLE MD-5A	CLAIM/Not available	Problem 2 1/8"	
PROPERTY Adel Orad		NUCLEAR	
AREA McDermitt Caldera		Run No.	2
COUNTY Malheur	STATE OR	Log Type	KUT
LOCATION		Outside	NA
SEC 30	TWP 40S RGE 41E	Outside Size	1 1/2" x 1 1/2"
	Other Surveying GR, SP, A, NL, DS, TL	Source Tank	NA
Permanent Datum Ground Level	Elev 5663'	Source Strength	NA
Log Measured From 61	0 FT Above Perm Datum	Source Spacing	NA
Drilling Measured From GL	Elev 5663'	Temp. Trans	7.2 x 8
		Dial Level	NA
CASING RECORD		R Factor	NA
Size (OD-ID) Wgt	From To	Digital	U T
4.5 1/4-0"	0 42'	XXXXXX	1.659 7.915
		XXXXXX	Large Xtal
BOREHOLE RECORD		Date Cals	12-17-80
Bit Size	From To	Casing Factor	
6"	0 42'		
3.5"	42' 300'		
3.03"	300' 914'		
Depth-Driller	914'		
Depth-Logger	312'		
Type Fluid in Hole	Polydrill 6 Driscose		
Salinity ppm	Not available		
PH-20 Fluid Loss	Not available		
Density log gel	Not available		
Fluid Level	162'		
Pressure on stringer	None		
Rtn @ Meas Temp	Not available		
Rtn @ Meas Temp	Not available		
Rtn @ Meas Temp	Not available		
BHT	15.2°C		

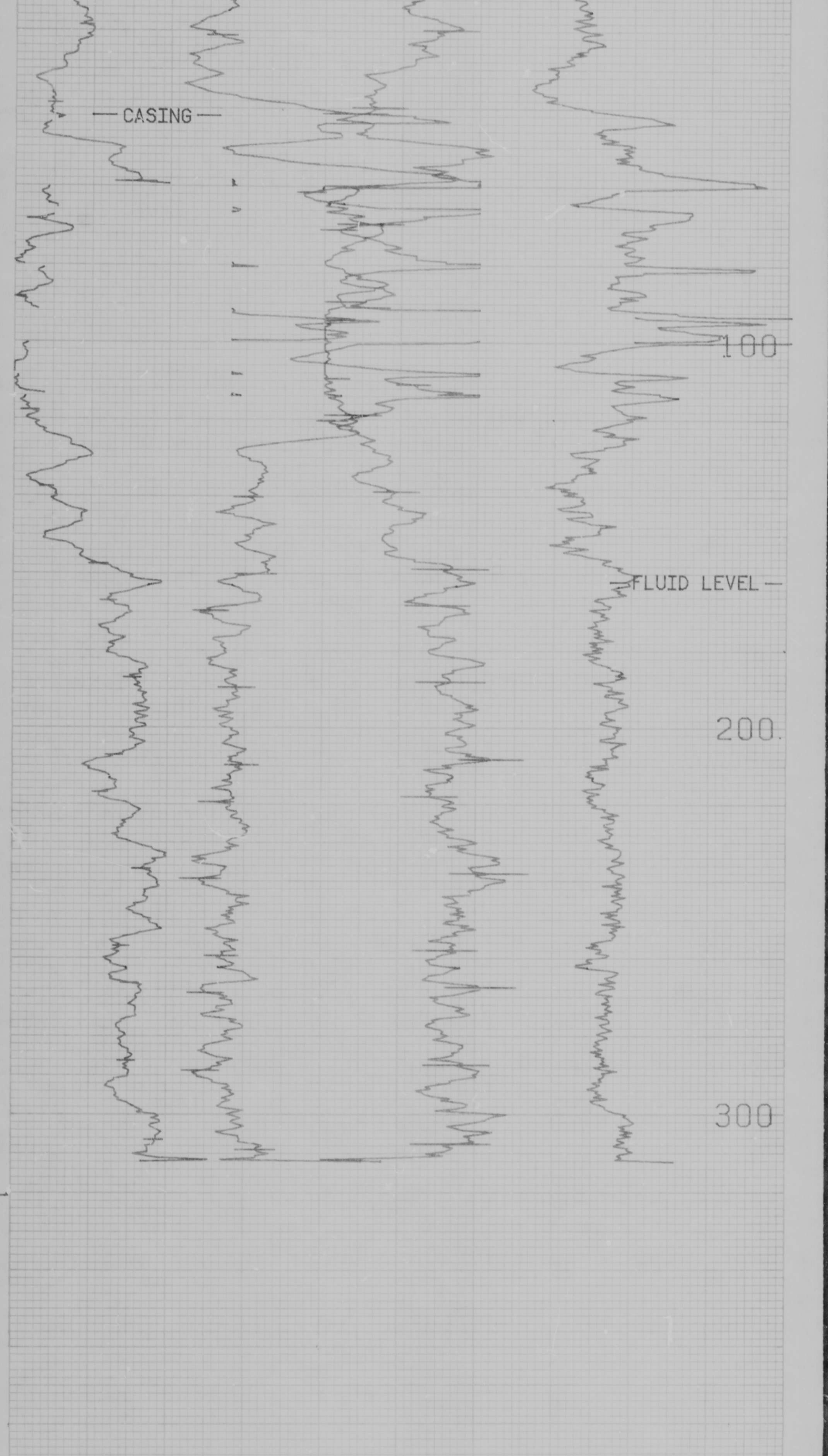
Remarks: Log pulled after casing was removed. Caliper section was not operating during this run - probable software problems. Main log moving downhole has a 10' area of lost data from 81' to 91', this was operator error not detected at the time of logging.

Reprocessed data on TDC-629 TK 3 from TDC-142 TK 4.

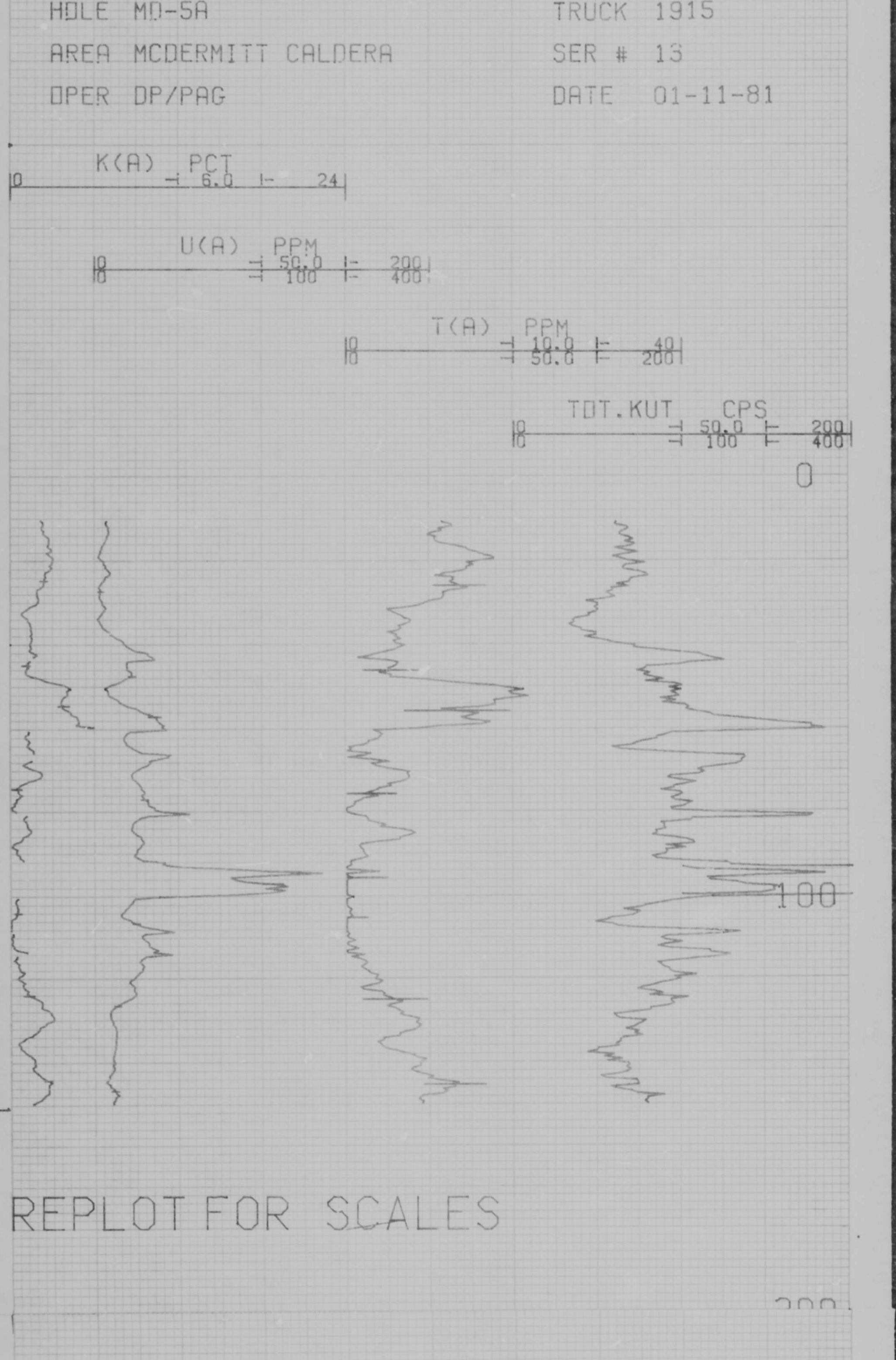
Cart No.	Type	Log Type	Depth From	To	Footage Logged	Speed F/Min	Depth Scale	Sens Units/Div	Pen Zero Div L	Digital Time	Digital Inset	Remarks
629	3	K	312	11	301	5	20"/in	3.0 pct	0	-	.5"	Main Log - Up Phase 3
"	"	U	"	"	"	"	"	10.0 ppm	2	-	"	"
"	"	T	"	"	"	"	"	10.0 ppm	4	-	"	"
"	"	Tot. KUT	"	"	"	"	"	50.0 cps	5	-	"	"
"	"	K	150	11	-	"	"	6.0 pct	0	-	"	Replot Main Log Phase 3
"	"	U	"	"	-	"	"	50 ppm	2	-	"	"
"	"	T	"	"	-	"	"	10.0 ppm	4	-	"	"
"	"	Tot. KUT	"	"	-	"	"	50.0 cps	6	-	"	"
"	"	Tot. KUT	81	11	70	18	"	100 cps	0	-	"	Main Down, Phase 1 & 2
"	"	Temp.	311	91	220	"	"	3°C	4	-	"	"
"	"	Tot. KUT	311	91	220	"	"	100 cps	0	-	"	"
"	"	Temp.	311	91	220	"	"	3°C	4	-	"	"

Total Footage Logged 591'

CAUTION: Unpublished changes in this document have been obtained from the "Loggers Handbook" and "Loggers Handbook" published by the American Nuclear Society, Inc. The DOE and the American Nuclear Society, Inc. are not responsible for any errors or omissions in this document.

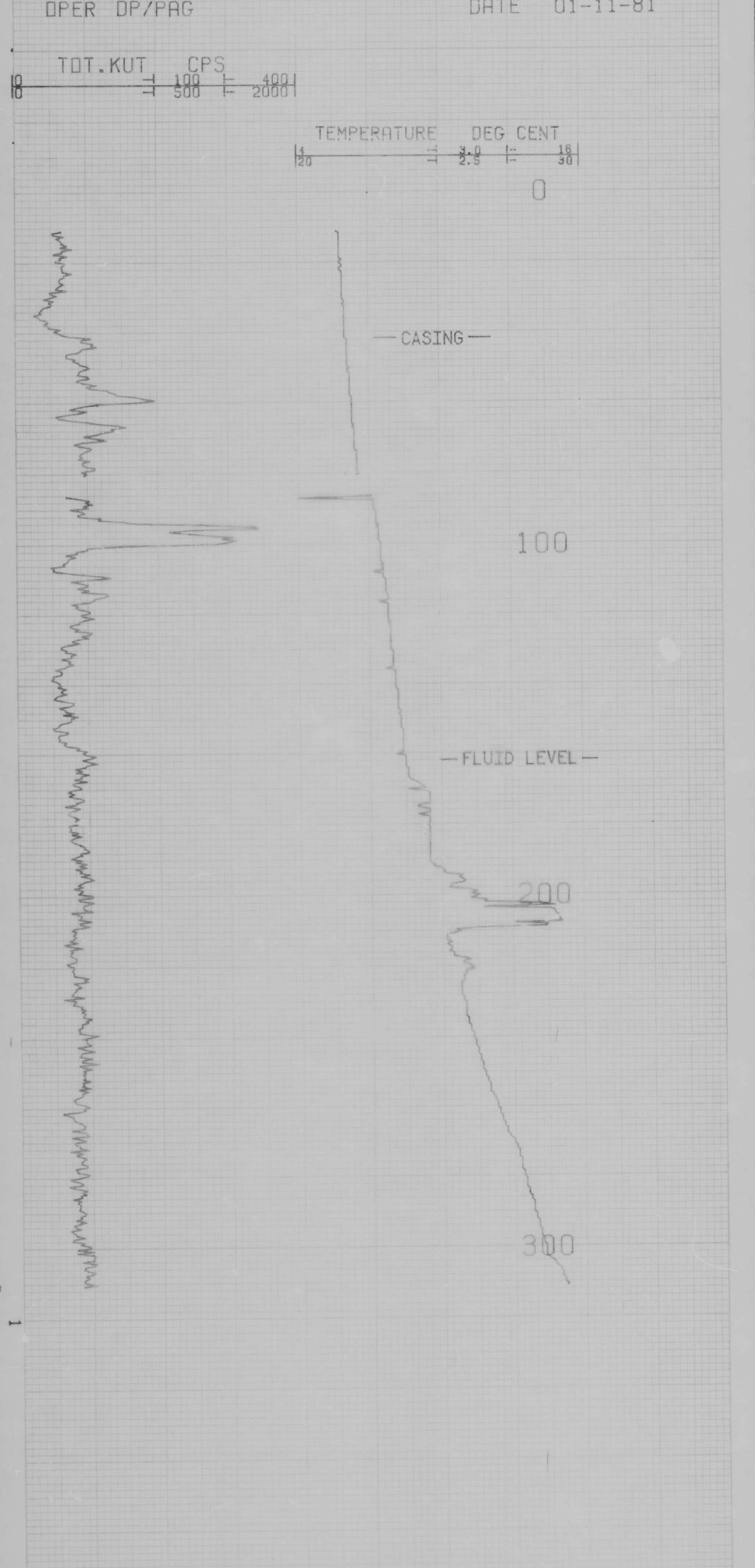


HOLE MD-5A TRUCK 1915
 AREA MCDERMITT CALDERA SER # 13
 OPER DP/PAG DATE 01-11-81



REPLOT FOR SCALES

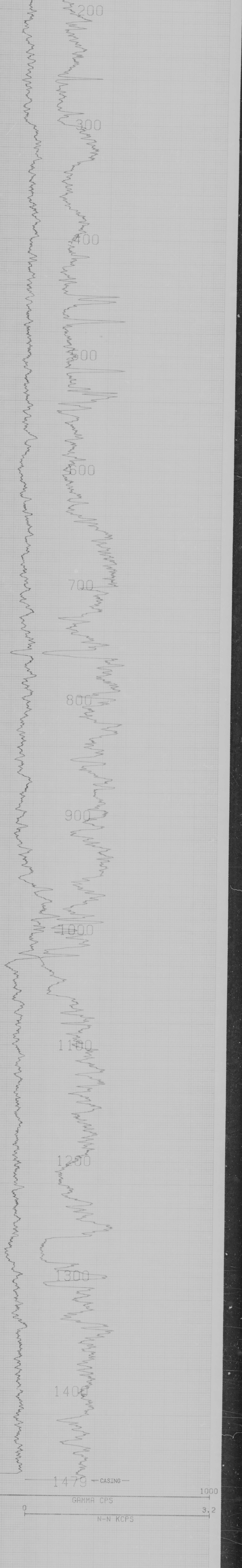
HOLE MD-5A TRUCK 1915
 AREA MCDERMITT CALDERA SER # 13
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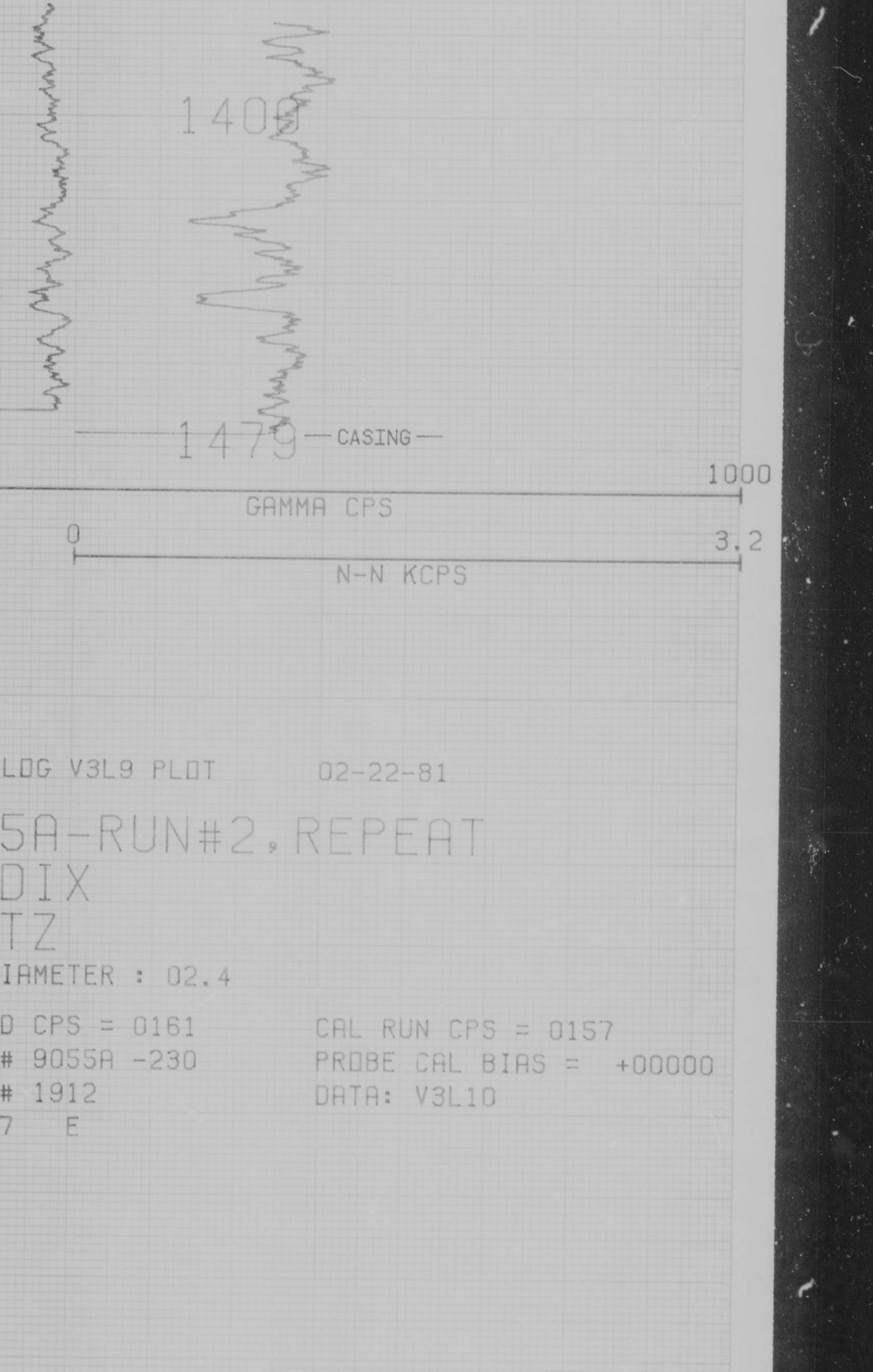
COMPANY: Bendix
 HOLE: McDermitt #5A
 PROPERTY: Locke - Jacobs
 AREA: Bretz
 COUNTY: Hall-w
 STATE: OR
 LOCATION: 3 1/2 mi. S. of...
 SEC. 5E30 TWP. 4N5 R9E 41E
 PERMITS: 915-...
 LOG MEASUREMENT FROM: 0 FT Above Power Window
 DRILLING MEASURED FROM: RL
 CASING RECORD: 2 3/8" / 2 3/8" x 116' / 2 3/8" x 116' / 2 3/8" x 116'
 BOREHOLE RECORD: 3 1/2" / 3 1/2" x 116' / 2 3/8" x 116' / 2 3/8" x 116'
 DEPTH: 1500
 FLUID: Driscoll, FD-2, Water
 TEMPERATURE: 10.0m @ 160°
 RESISTANCE: 1492, 1379, 118

LOGGING DATA

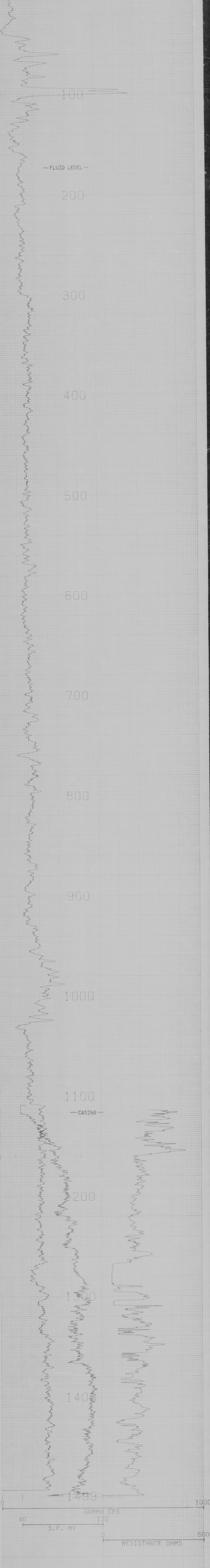
Run	Type	Time	Depth	Gamma	Neutron	Resist	Temp
23	Gamma	1472	1373	99	60	20/div	100 cps/div
"	Neutron	1477	1378	99	"	20/div	100 cps/div
"	Gamma	1493	1374	118	60	20/div	100 cps/div
"	SR	1498	1377	118	"	20/div	100 cps/div
"	Resistance	1492	1379	118	"	20/div	100 cps/div
"	Temperature	1499	0	1499	"	5/div	50'
"	Deviation	1499	0	1499	"	5/div	50'
23	Gamma	1492	1374	118	60	20/div	100 cps/div
"	SR	1498	1377	118	"	20/div	100 cps/div
"	Resistance	1492	1379	118	"	20/div	100 cps/div



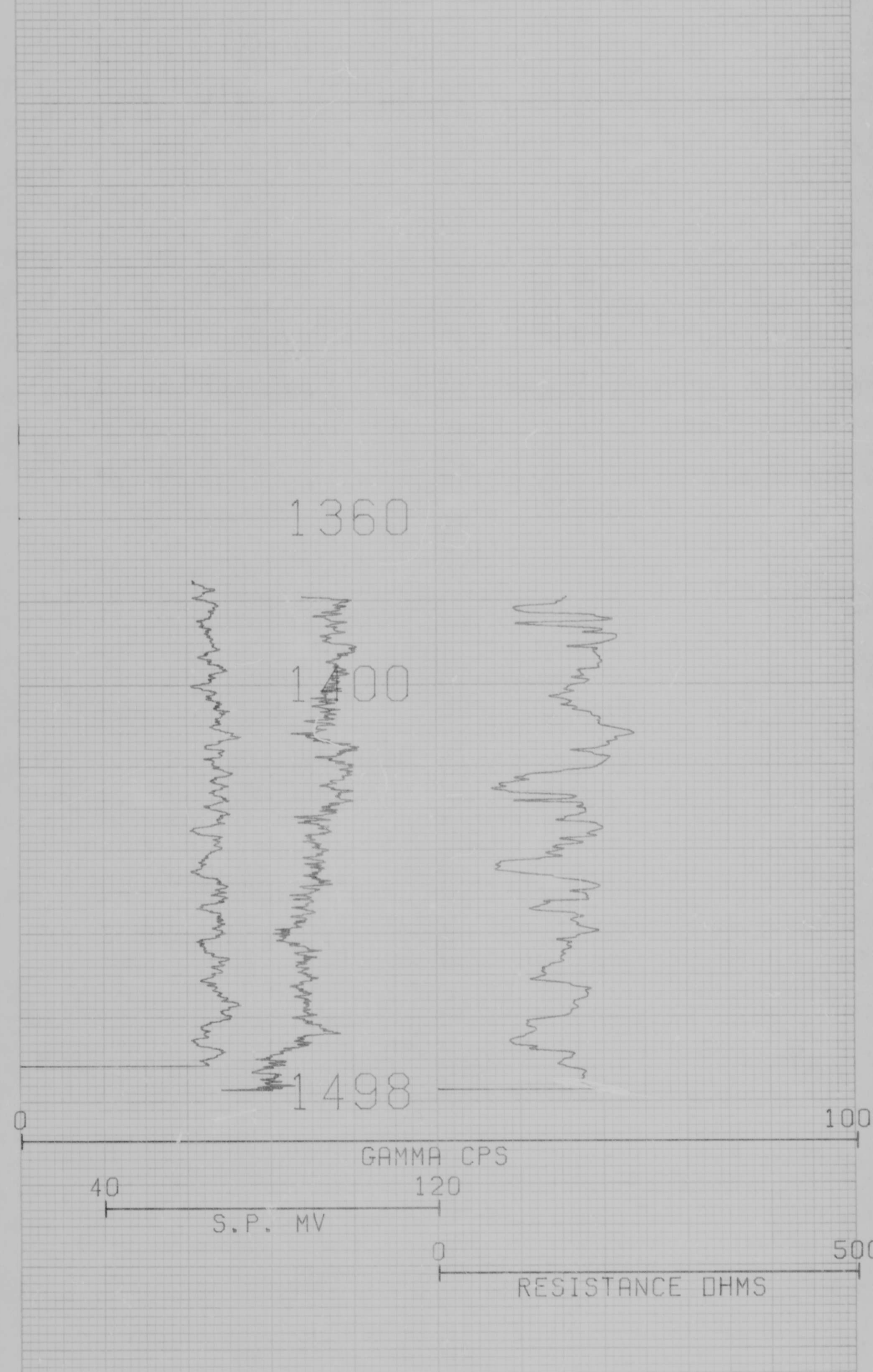
COMPU-LDG V3L9 PLOT 02-22-81
 MCDERMITT #5A-RUN#2,
 BENDIX
 BRETZ
 HOLE DIAMETER : 02.4
 CAL STD CPS = 0161 CAL RUN CPS = 0157
 PROBE # 9055A -230 PROBE CAL BIAS = +00000
 TRUCK # 1912 DATA: V3L10
 APPL.#7 E
 JP/DT



COMPU-LDG V3L9 PLOT 02-22-81
 MD#5A-RUN#2, REPEAT
 BENDIX
 BRETZ
 HOLE DIAMETER : 02.4
 CAL STD CPS = 0161 CAL RUN CPS = 0157
 PROBE # 9055A -230 PROBE CAL BIAS = +00000
 TRUCK # 1912 DATA: V3L10
 APPL.#7 E
 JP/DT

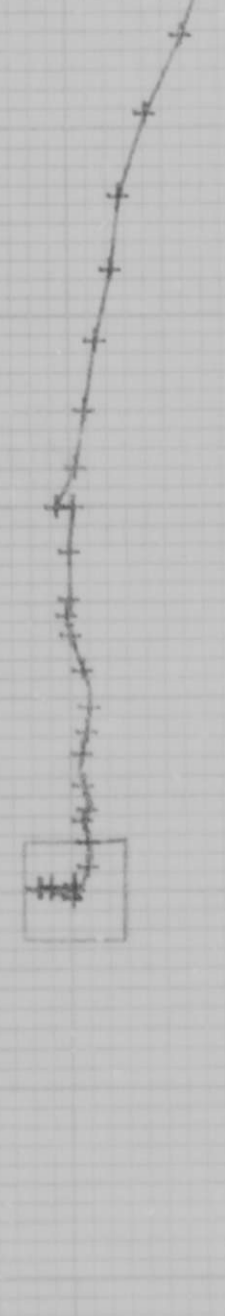


COMPU-LOG V3L9 PLOT 02-22-81
 MD-5A, RUN 3
 BENDIX
 BRETZ
 HOLE DIAMETER : 02.4
 CAL STD CPS = 0161 CAL RUN CPS = 0157
 PROBE # 9055A -230 PROBE CAL BIAS = +00000
 TRUCK # 1912 DATA: V3L10
 APPL.#3 E
 JF/DT



COMPU-LOG V3L9 PLOT 02-22-81
 MD-5A, RUN 3, REPEAT
 BENDIX
 BRETZ
 HOLE DIAMETER : 02.4
 CAL STD CPS = 0161 CAL RUN CPS = 0157
 PROBE # 9055A -230 PROBE CAL BIAS = +00000
 TRUCK # 1912 DATA: V3L10
 APPL.#3 E
 JP/DT

VERTICAL DEVIATION
 COMPULOG V3L1 DEVIATION
 HOLE ID: MD-5A, RUN 3
 SCALE: 5 FT/IN + = 50 FOOT INCR
 MAG DECL: 18.0 Δ = TOP OF ZONE
 TRUE DEPTH: 1499. FT ○ = BOTTOM OF ZONE
 AZIMUTH: 10. TRUE NORTH ↑
 DISTANCE: 26.6 FT



Field Engineering Corporation
 Gamma, Neutron, Resistance, S.P.
 Date 1-22-81
 Truck No. 1915
 Operator Traub

COMPANY Bendix
 HOLE McDermitt #6 CLAIM Chevron
 PROPERTY BLM
 AREA Orovada
 COUNTY Humboldt STATE NV

PROBESER No. 9055A-233 Probe Dia. 1.778"

Run No. 1
 Log Type Gamma Neutron
 Detector NaI He+3
 Counter Size 7/8" x 6" 1" x 6"
 Source Type NA AmBe
 Source Strength NA 1 Ci
 Source Spacing NA 14"
 Amp. Gain NA NA
 Quc. Level NA NA
 Filter Digital 5.69 x 10⁻⁶
 Amplifier Analog 5.69 x 10⁻⁶
 Deadtime Digital .94 μ sec.
 Analog .97 μ sec.
 Core Cells 12-31-80
 Casing Fader -

Other Services
 KUT
 CL
 TL

Permanent Datum Ground Level Elev. 6623'
 Log Measured From GL 0 Ft Above Perm Datum
 Drilling Measured From GL Elev. 6623'

CASING RECORD
 Size (O.D. Wgt. From To
 4.5" / 4.0" 0 63'
 3.5" / 3.06" 77 lbs (HU) 0 200'

BOREHOLE RECORD
 Bit Size From To
 6" 0' 63'
 3.79" 63' 200'
 2.98" 200' 293.7'

Depth-Driller 293.7
 Depth-Logg. 292
 Type Fluid in Hole See Remarks
 Salinity ppm Not available
 pH and Fluid Loss Not available
 Density @ 60 deg Not available
 Fluid Level 192
 Source of Seepage Mud pit
 Run @ Meas Temp Mud resistivity was too high to measure Rm, Rmf, and
 Run @ Meas Temp Rmc.
 BHT 8.2°C

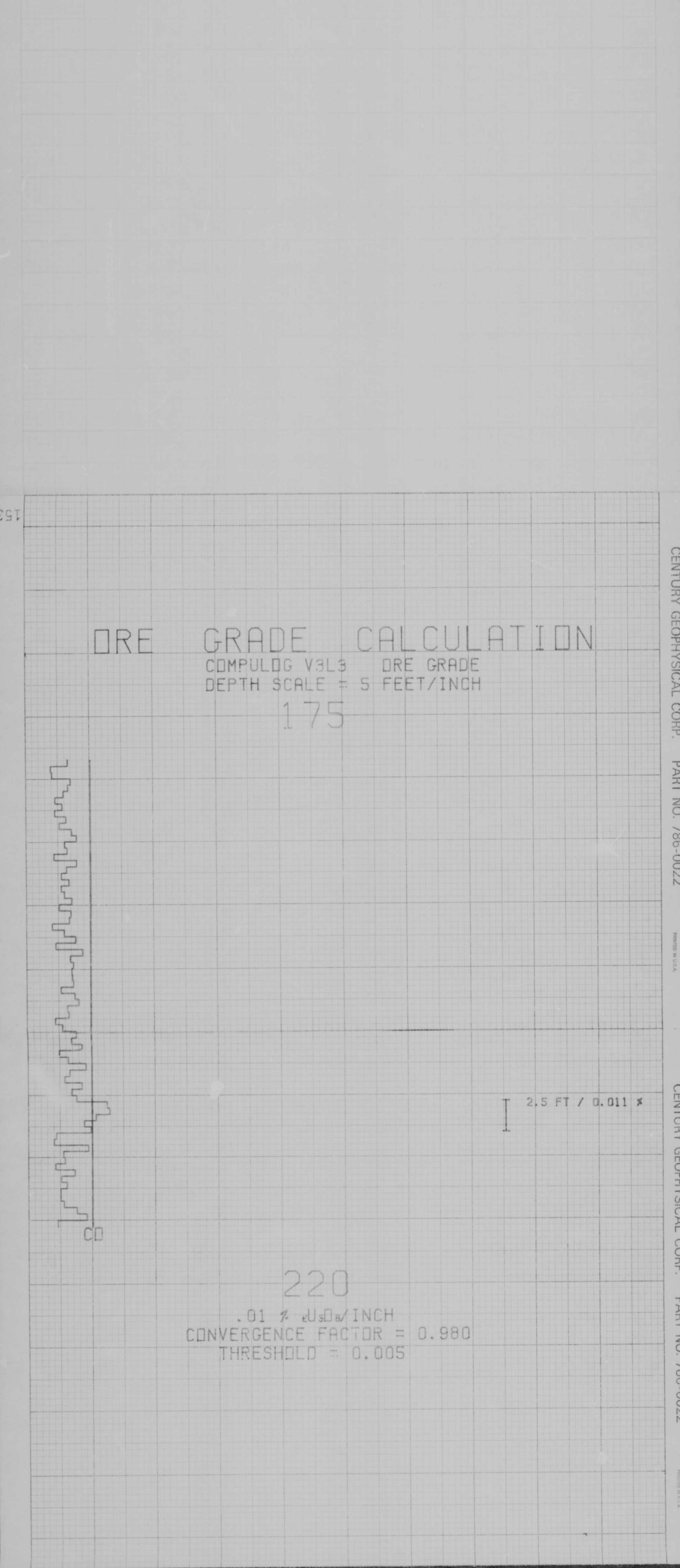
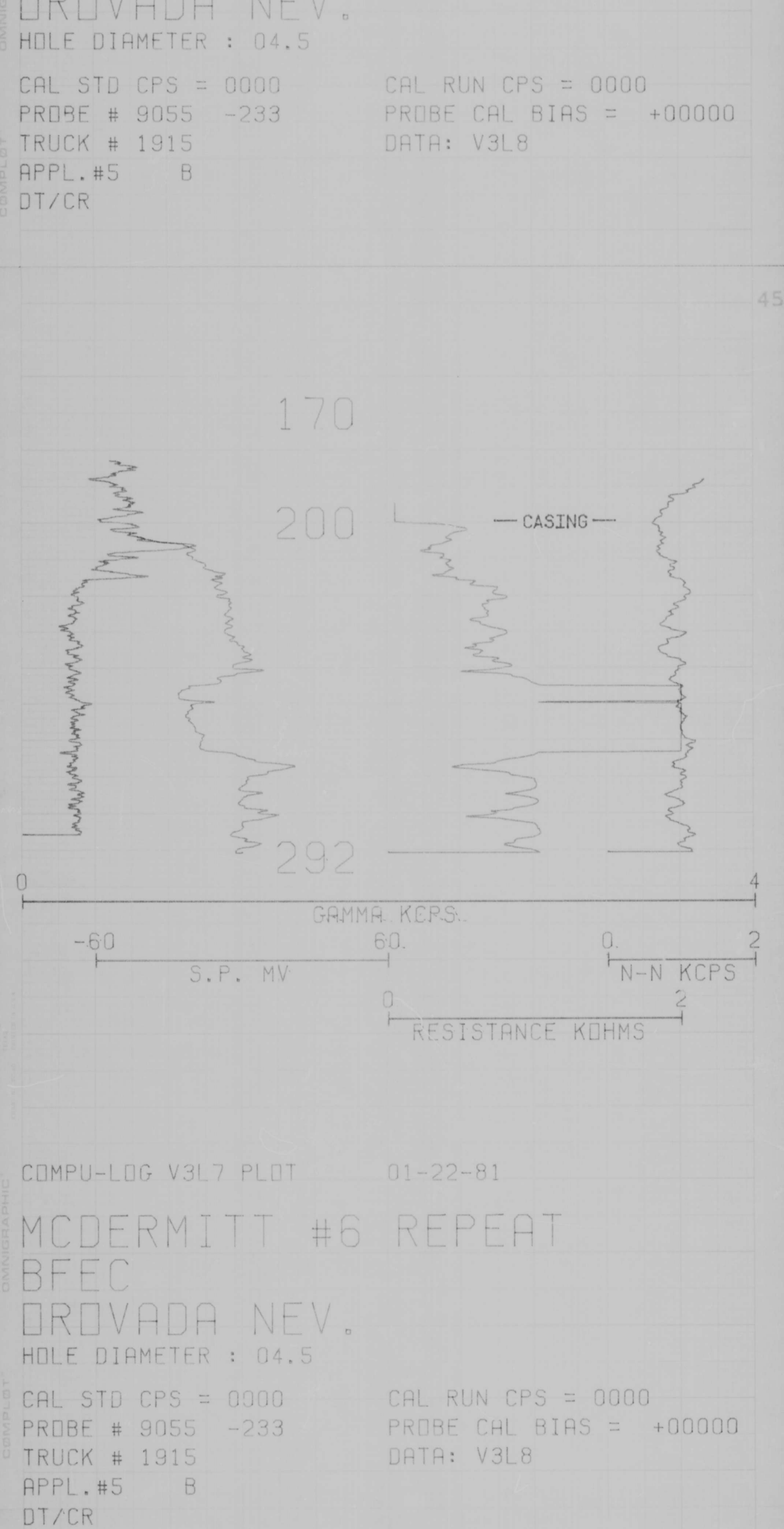
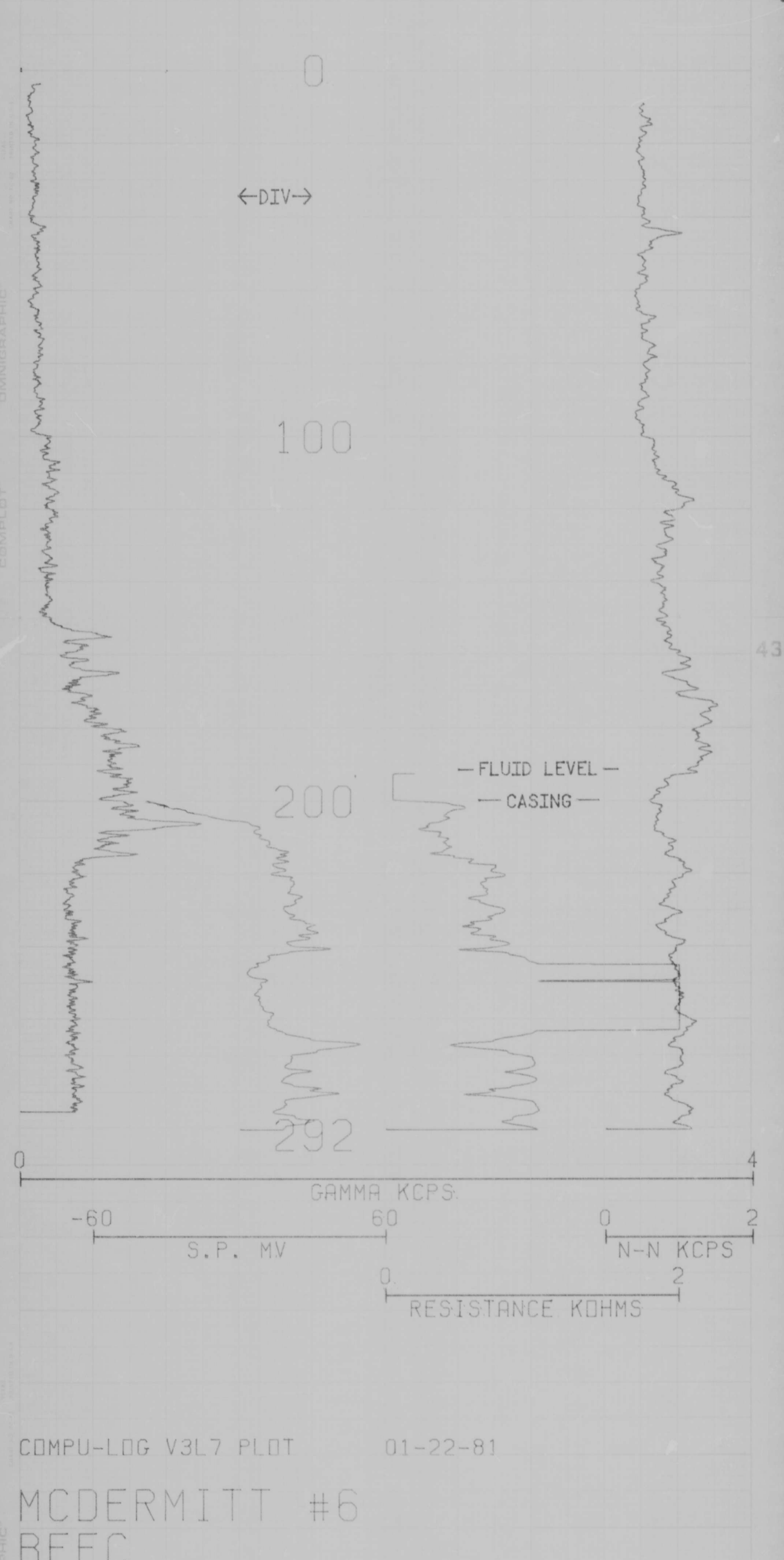
Remarks: The hole was logged again after the 200' of HQ drill rod was pulled from the hole. Directional survey was logged on the second run. Temperature sensor did not operate. Resistivity at 250' is too high to measure.
 Drill Fluids: Qwik Seal; Bran; Paper; Driscose; Polydrill; water

TIME RECORD
 Start 14:30
 End 15:00
 Total .5 hr. 0

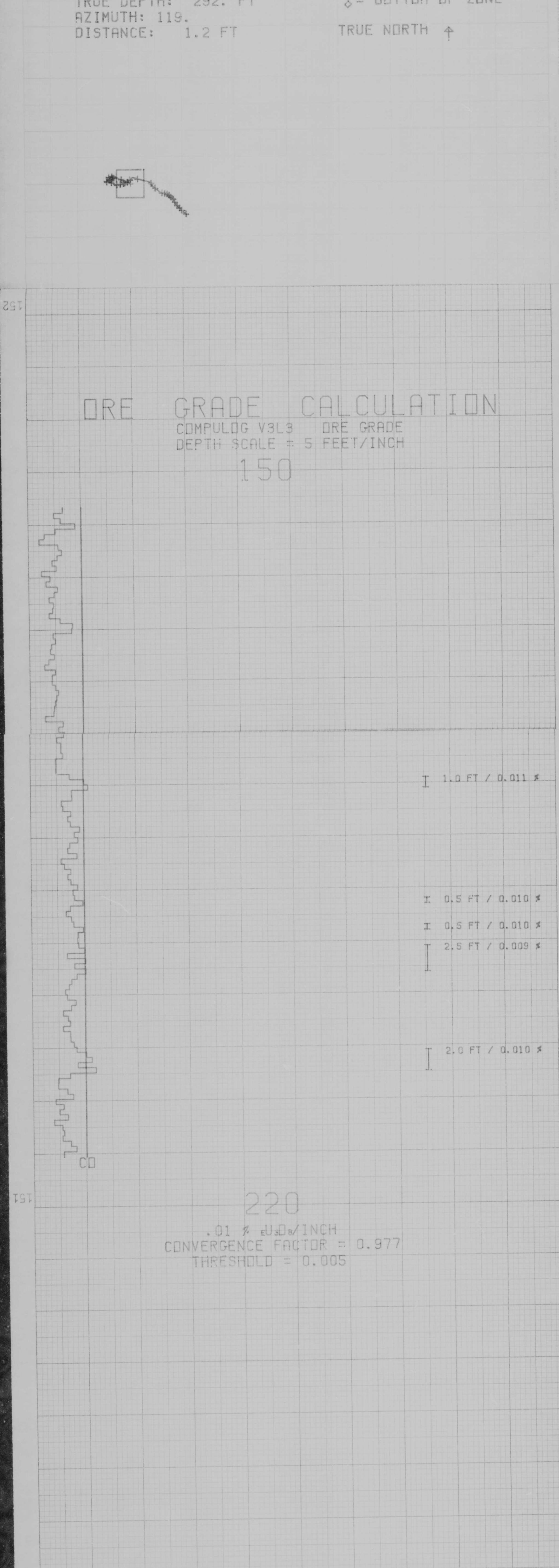
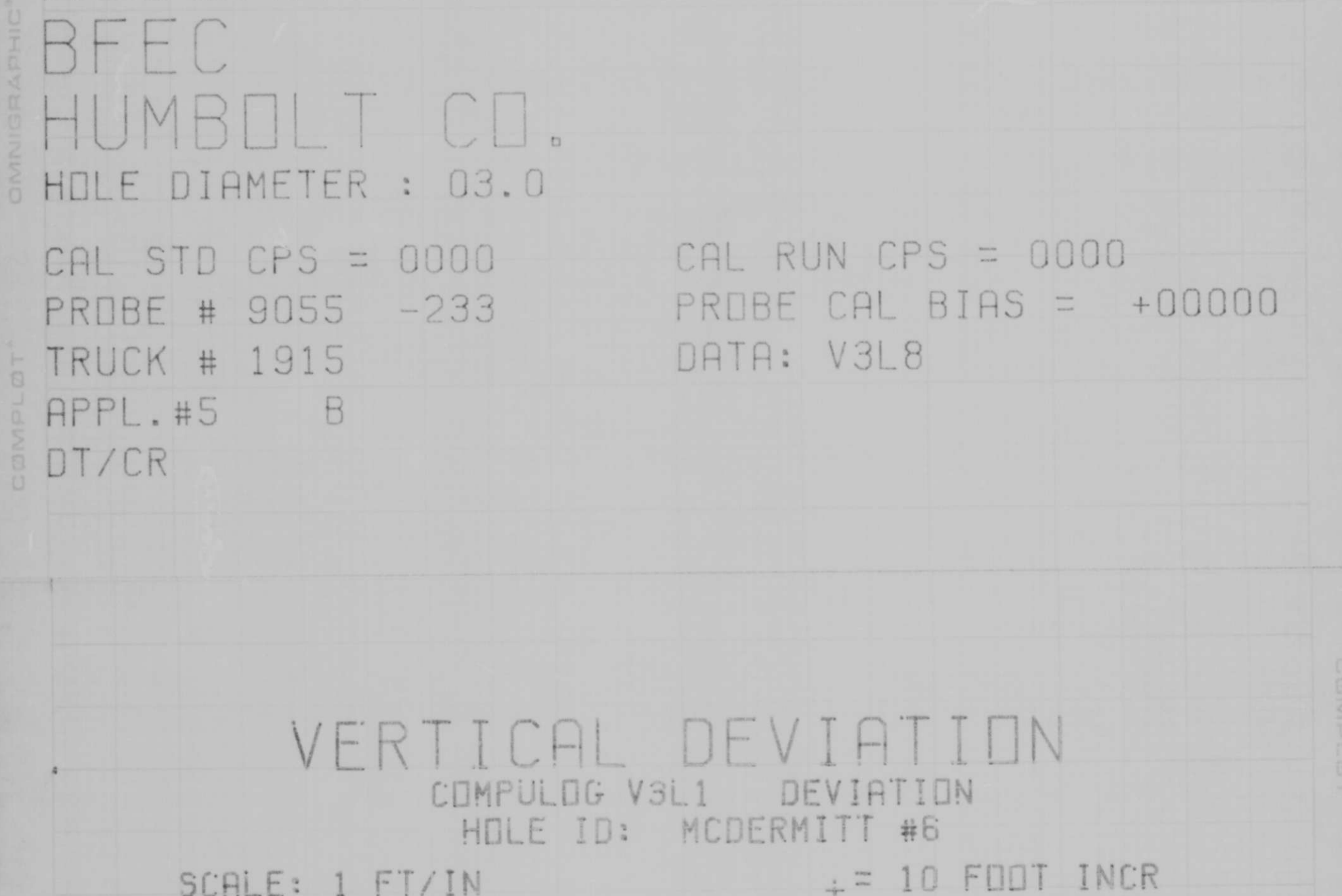
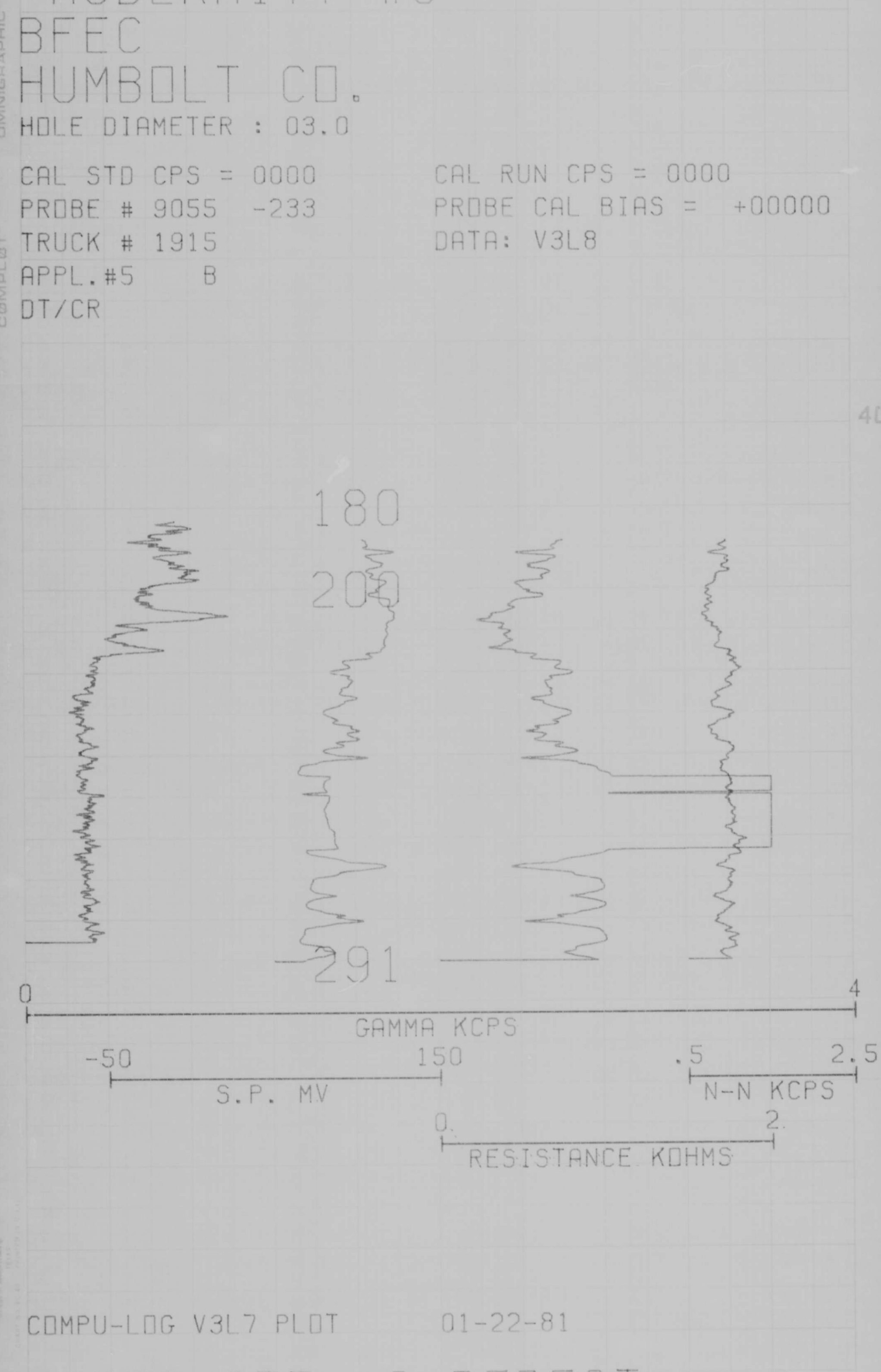
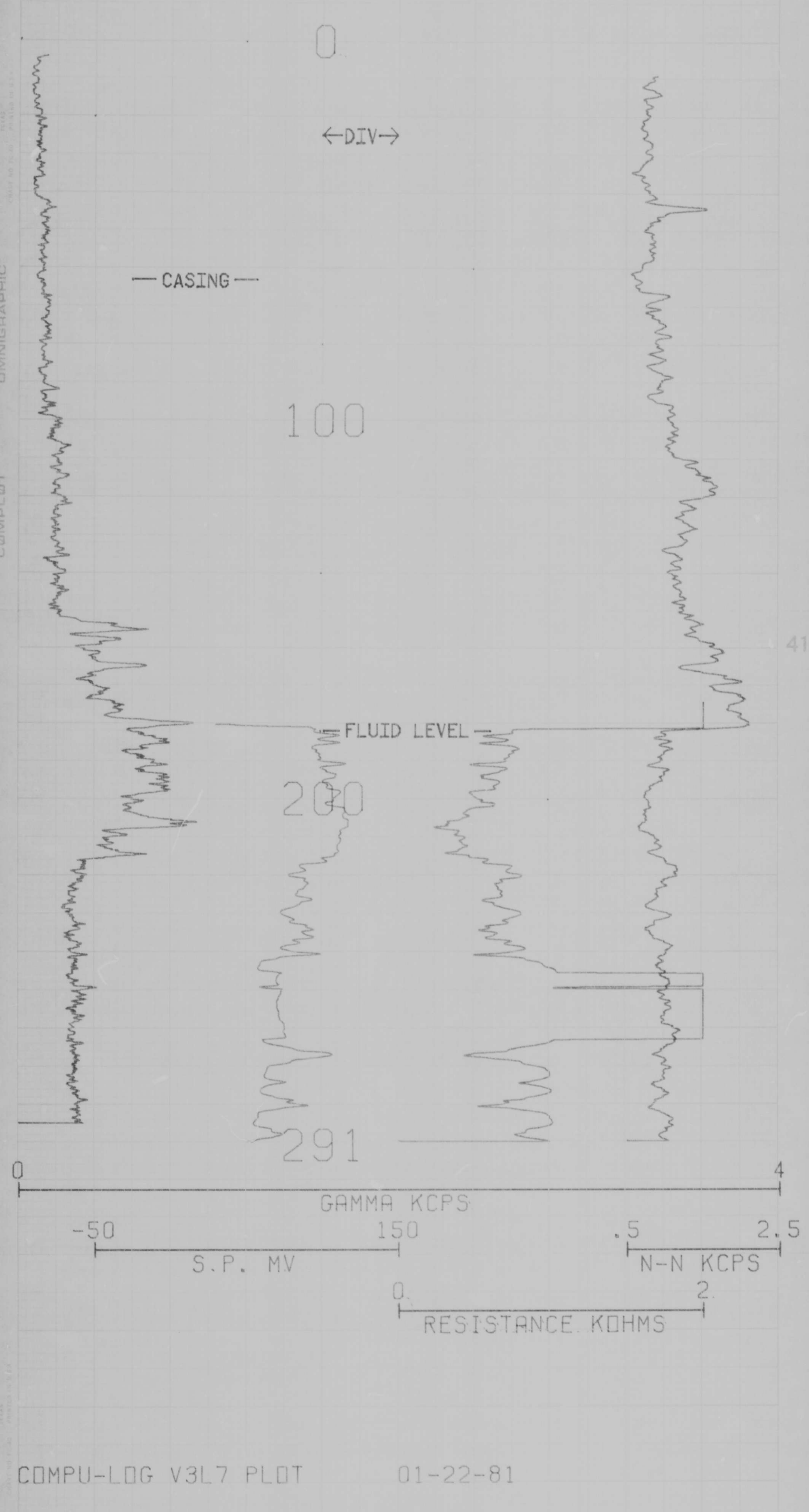
LOGGING DATA

Core No.	Type	Log Type	Depth From	To	Footage Logged	Speed Ft/Min	Depth Scale	Sense Units/Div	Pen Zero Div L	Signal Time	Intri	Remarks
486	2	Gamma	286	4	282	60	20'/div	400 cps	0	.5'	"	Main Log
		Neutron	291	9	"	"	"	1000 cps	8.0	"	"	"
		S.P.	"	200	91	"	"	30 mV	1.0	"	"	"
		Resist.	"	"	"	"	"	500 Ω	5.0	"	"	"
	1	Gamma	286	193	103	"	"	400 cps	0	"	"	Repeat Section
		Neutron	291	188	103	"	"	1000 cps	8.0	"	"	"
		S.P.	"	200	91	"	"	30 mV	1.0	"	"	"
		Resist.	"	"	"	"	"	500 Ω	5.0	"	"	"

100' Footage Logged 1135



Bendix Field Engineering Corporation Grand Junction Operations P.O. Box 1569 Grand Junction, CO 81502		Gamma, Neutron-Neutron, Resistance, SP, Directional Survey		Date: January 22, 1981 Truck No. 19 Operator: Traub/Bayndal	
COMPANY Bendix HOLE McDermitt #6 CLAIM Chevron PROPERTY BLM AREA Orovada COUNTY Humboldt STATE NV LOCATION Ser: SE 35 TWP 46N RGE 34E Other Services: KUT CL TL Permanent Datum: Ground Level Elev: 6623' Log Measured from: GL 0 ft Above Perm Datum Elev: 6623' Drilling Meas and From GL Elev: 6623'		EQUIPMENT DATA Probe Dia: 1 7/8" Run No: 2 Log Type: Gamma Detector: NaI Detector Size: 7/8" x 4" Source Type: NA Source Strength: NA Source Output: NA Amp Gain: NA Elec Level: NA K-Factor: Digital 5.49 x 10 ⁻⁶ Analog 5.49 x 10 ⁻⁶ Deadtime: Digital .94 μ sec Analog .97 μ sec Date Code: 12-31-80 Casing Factor:			
CASING RECORD Size (OD-ID) Wgt From To 4.5"/4.0" 0 63'		ELECTRICAL Run No: 2 Log Type: SP Normal Spacing: NA SP Reference: Ground SP Offset: -50 Spole Length: NA CALIBER Run No: Log Type: Device Type: Tool Position: Minimum Span: Maximum Span: UTM Run No: 2 Log Type: D.S. Magnetic Declination: 18.0			
BOREHOLE RECORD Bit Size From To 6.0" 0' 63' 3.79 63' 200' 2.98 200' 293.7'		LOGGING DATA Core Type Trk 572 2 Gamma 285 4 281 60 20'/div 400 cps 0 Neutron 290 9 281 " " 1000 cps 8.0 Resist. 290 181 109 " " 500 Ω 5.0 S.P. 290 181 109 " " 50 mV 1.0 D.S. 285 10 275 " " 1'/div " " " "			
TIME RECORD Start 19:30 End 20:00 Total .5 hr. 1.5 hr.		LOGGING DATA (Cont) 572 1 Gamma 285 183 102 60 20'/div 400 cps 0 Neutron 290 188 102 " " 1000 cps 8.0 Resist. 290 188 102 " " 500 Ω 5.0 S.P. 290 188 102 " " 50 mV 1.0			



CENTURY GEOPHYSICAL CORP. PART NO. 786-0022
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 CENTURY GEOPHYSICAL CORP. PART NO. 786-0022

Geophysical Engineering Corporation
 1100 West 10th Street
 Denver, Colorado 80202

DATE: January 22, 1981
 TRUCK: 1915
 OPER: Traub/Ravinda

COMPANY: Nevada
HOLE: McDermitt #6
PROPERTY: BLM
AREA: Drovsada
COUNTY: Humboldt
STATE: NV

LOG No: 251-13A
Well Depth: 217'

EQUIPMENT DATA:
 Type: NUCLEAR
 No: 1
 Size: 1.5" x 12" / 1.5" x 12"
 Material: NA
 Weight: NA
 Length: 4 x 7.28 / 4 x 7.42
 Diameter: NA
 U: .232
 U: 1.659
 T: 2.915

PERMISSIONS: Ground Level
Log Measured From: Ground Level
Drifts Measured From: Ground Level

CASING RECORD:
 Size (OD/ID) (Wt):
 4.5" / 3.9" 0 63'
 3.5" / 3.06" 271bs (42) 0 200'

BOREHOLE RECORD:
 Bit Size: From To
 6.0" 0 63'
 3.75" 63 200'
 2.98" 200 293.7'

Logging Data:
 Depth (ft): 293.7
 Depth (log): 293.5
 Time (hr): See Remarks
 Log Rate (ft/hr): Not Available
 Log Rate (ft/min): Not Available
 Log Rate (ft/sec): Not Available
 Log Rate (ft/min): Not Available
 Log Rate (ft/min): Not Available

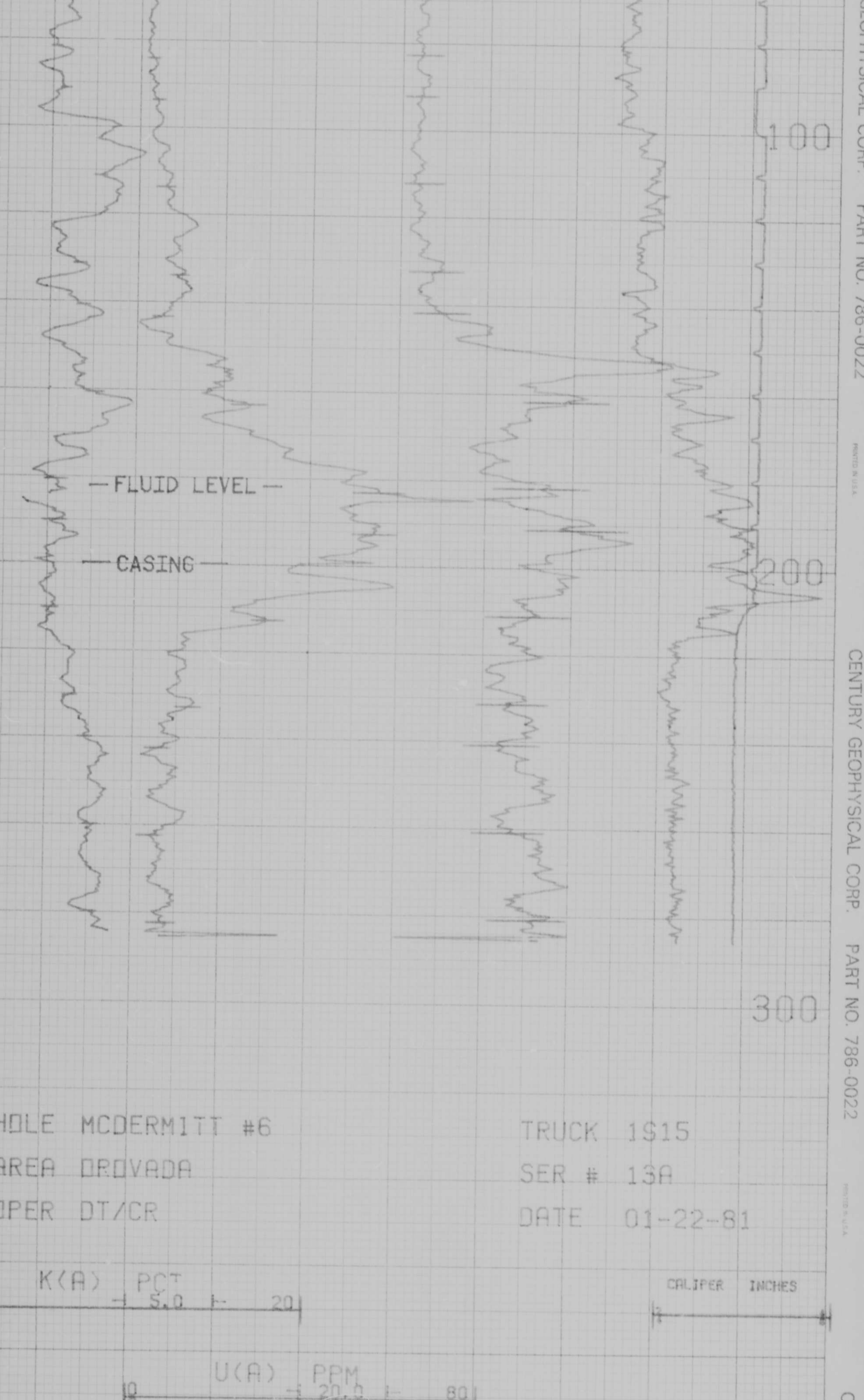
Logging Data Table:

Core Type	Log Type	Start (ft)	End (ft)	Depth (ft)	Rate (ft/hr)	Rate (ft/min)	Rate (ft/sec)	Time (min)	Time (sec)	Remarks
TDC 266	K	285	11	274	5	20' / div	53' / div	0	5'	Run #1 Main Log
	U	285	11	274	"	"	"	2.0	5'	"
	T	285	11	274	"	"	"	5.0	5'	"
	TG	285	11	274	"	"	"	7.0	5'	"
	Caliper	285	11	274	"	"	"	8.0	5'	"
	KUT, CL	285	187	98	"	"	"	"	5'	Run #1 Repeat
TDC 266	A	285	10	275	"	"	"	0	5'	Run #2 Main Log
	U	285	10	275	"	"	"	2.0	5'	"
	T	285	10	275	"	"	"	5.0	5'	"
	TG	285	10	275	"	"	"	7.0	5'	"
	Caliper	285	10	275	"	"	"	8.0	5'	"
	Temperature	285	10.5	274.5	30	"	"	4.0	1.0'	Run #2
	TG	"	"	"	"	"	"	0	"	"
	KUT, CL	284	186	98	5	"	"	"	5'	Run #2 Repeat

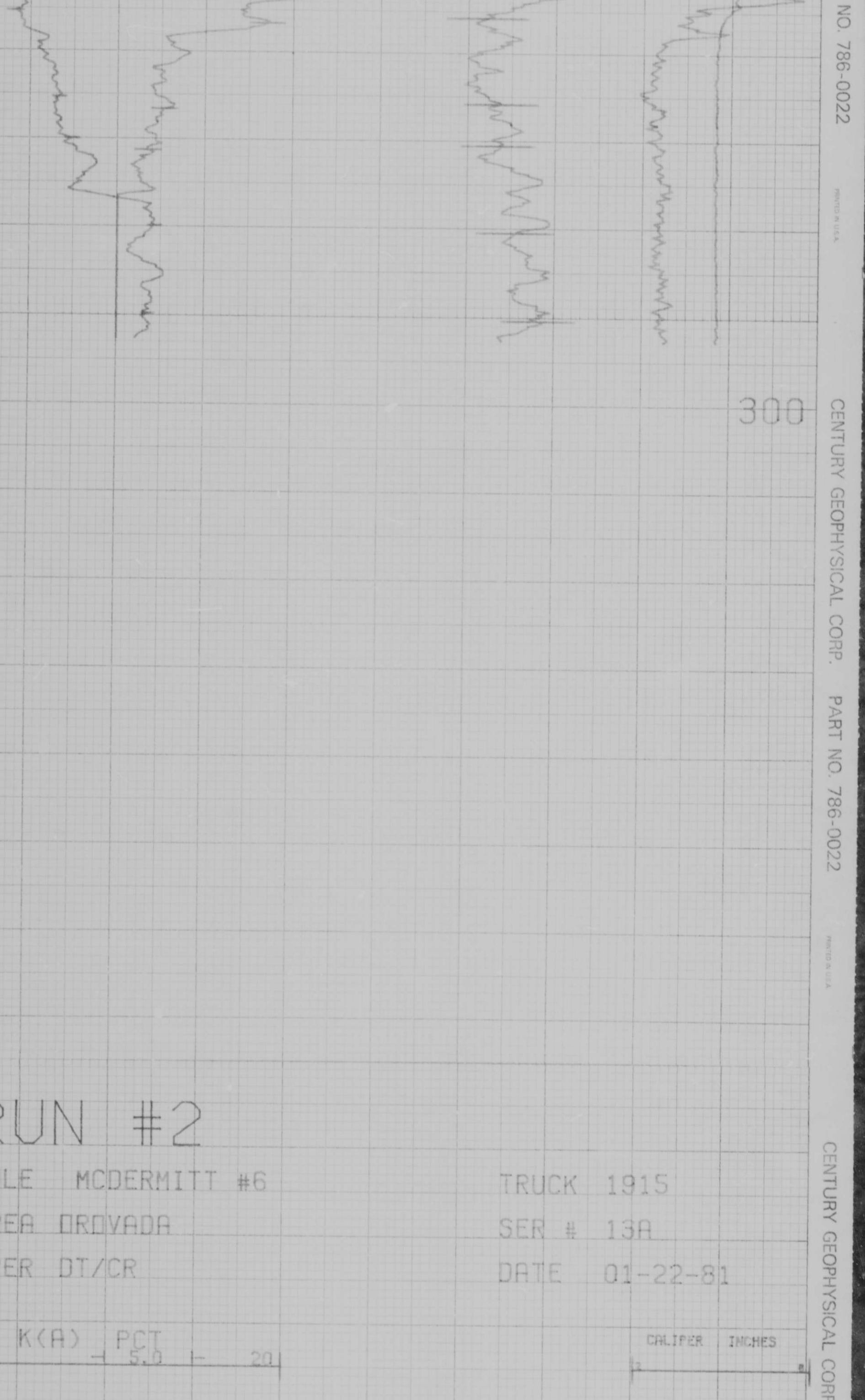
Notes:
 Run one was made through 700' of HQ drill rod. The rod was pulled for run two.
 Drift fluids: Quik Seal; Bran; Paper; Prisco; Polydrill; water. There is a noise spike on the 2nd run KUT log at 83' caused by a break in casing. Steel casing correction factors are applied to apparent KUT concentrations by the onboard computer using the listed casing record.

RUN #1

HOLE MCDERMITT #6 TRUCK 1915
 AREA DROVADA SER # 13A
 OPER DT/CR DATE 01-22-81

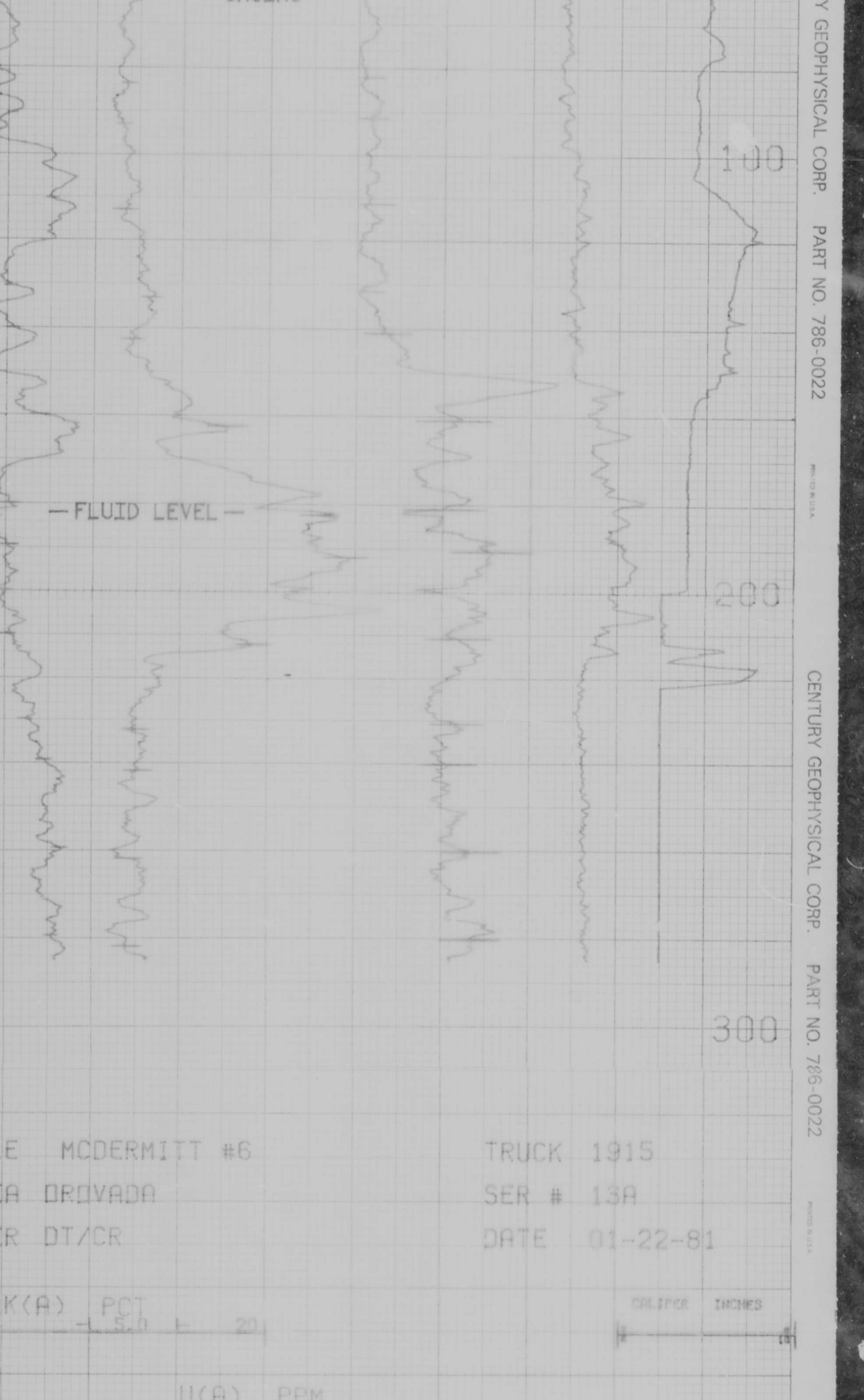


HOLE MCDERMITT #6 TRUCK 1915
 AREA DROVADA SER # 13A
 OPER DT/CR DATE 01-22-81

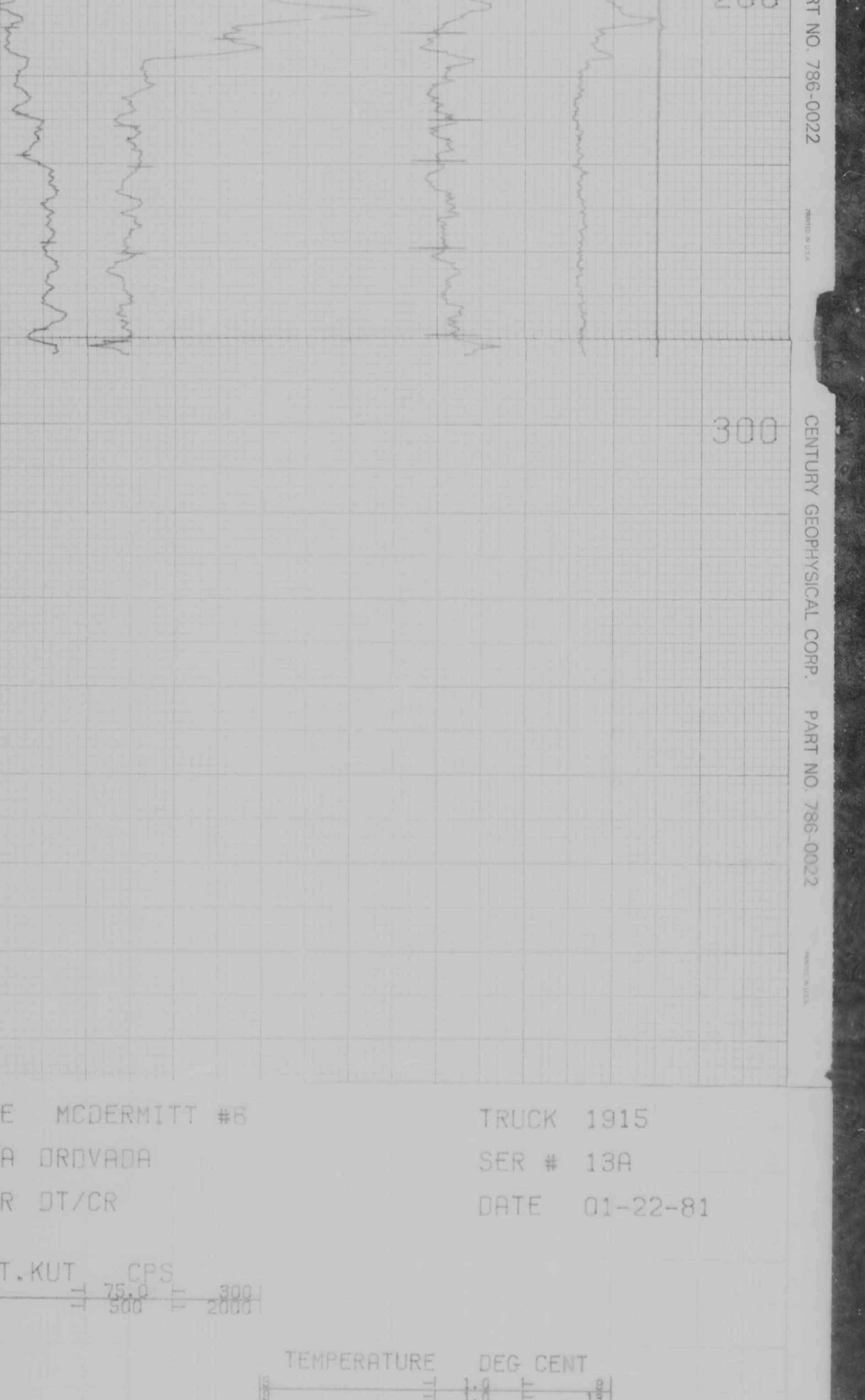


RUN #2

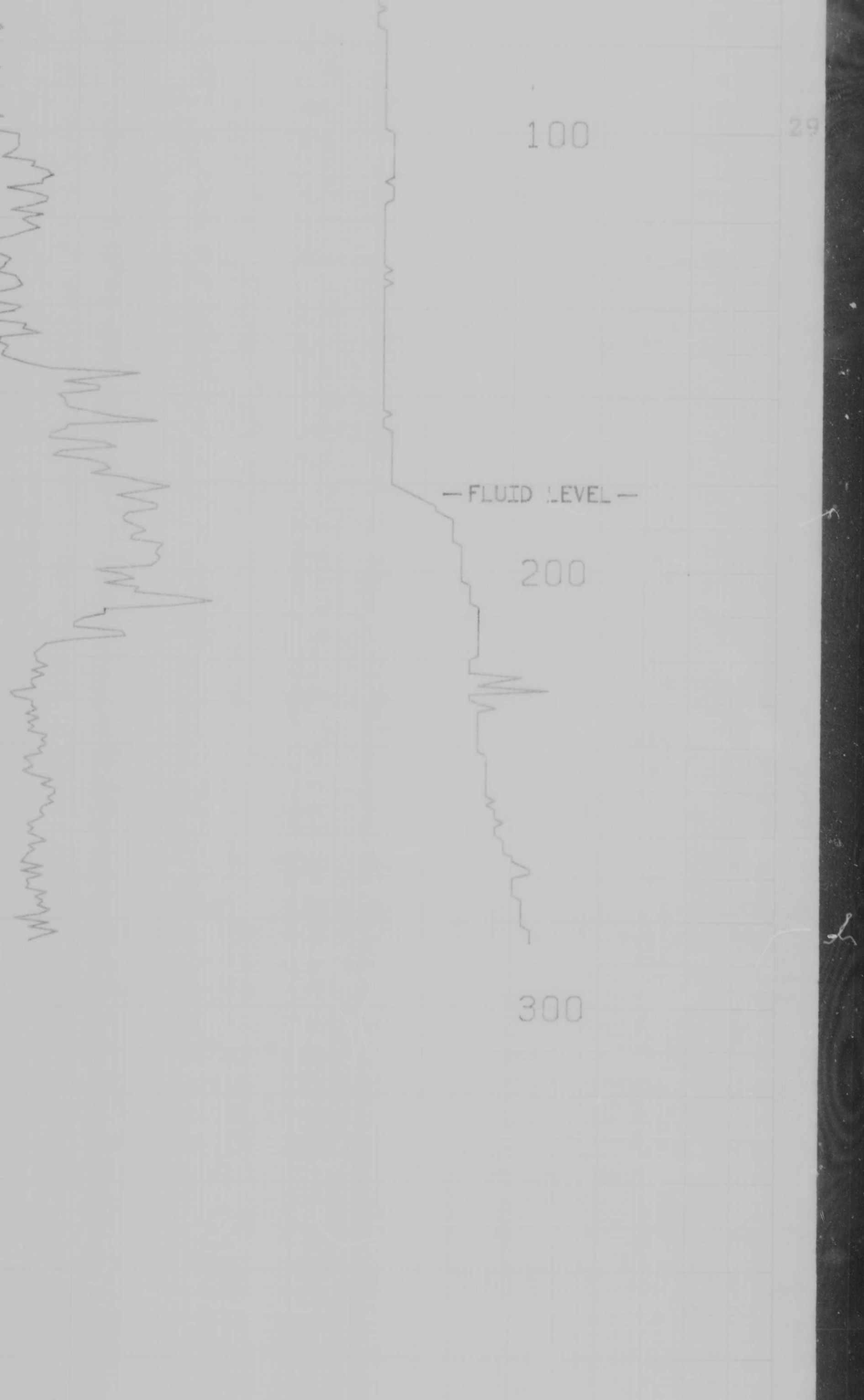
HOLE MCDERMITT #6 TRUCK 1915
 AREA DROVADA SER # 13A
 OPER DT/CR DATE 01-22-81



HOLE MCDERMITT #6 TRUCK 1915
 AREA DROVADA SER # 13A
 OPER DT/CR DATE 01-22-81



HOLE MCDERMITT #6 TRUCK 1915
 AREA DROVADA SER # 13A
 OPER DT/CR DATE 01-22-81



CENTURY GEOPHYSICAL CORP. PART NO. 786-0022

EQUIPMENT DATA		EQUIPMENT DATA	
COMPANY	BFEC	Probe Ser No.	55A - 231
HOLE	MD-7 CLAIM Not available	Probe Size	1 7/8"
PROPERTY	Not Available	Run No.	1
AREA	McDermitt Caldera/Adel Quad	Log Type	Gamma
COUNTY	Harney	Detector	No1
STATE	OR	Detector Size	7/8" x 5"
LOCATION		Detector Type	NA
SEC	Center Sec 11 TWP 39S RGE 37E	Detector Length	NA
Other Services		Detector Width	NA
Permanent Datum	Ground Level Elev. 5100'	Detector Weight	NA
Log Measured From	GL 0 Ft Above Perm. Datum Elev. 5100'	Detector Material	NA
Drilling Measured From	GL Elev. 5100'	Detector Finish	NA
CASING RECORD		State Code	11-28-80
Size (OD x ID) Wgt	From To	Casing Factor	
5 1/2" OD / 4 1/2" ID	0 42'		
3 1/2" OD / 3 1/16" ID	0 556'		
BOREHOLE RECORD		Run No.	1
Log Size	From To	Log Type	S.P.
6"	0' 42'	Resistivity	Resistance
3.78" (NO)	42' 556'	SP Reference	Mud Pit
2.58" (NO)	556' 736'	SP Offset	-170
		Scale Length	-
CALIPER		Run No.	
Dist. to Driller	736'	Log Type	
Depth to Driller	724'		
Type Fluid in Hole	Fluid Drill & Driscose		
Drill Pipe	Not available		
Drill Bit Fluid Loss	Not available		
Drill Bit Seal	Not available		
Fluid Level	161'		
Temperature Sample	Not available		
Time @ Meas Temp	Not available		
Time @ Meas Temp	Not available		
BHT	86.8		

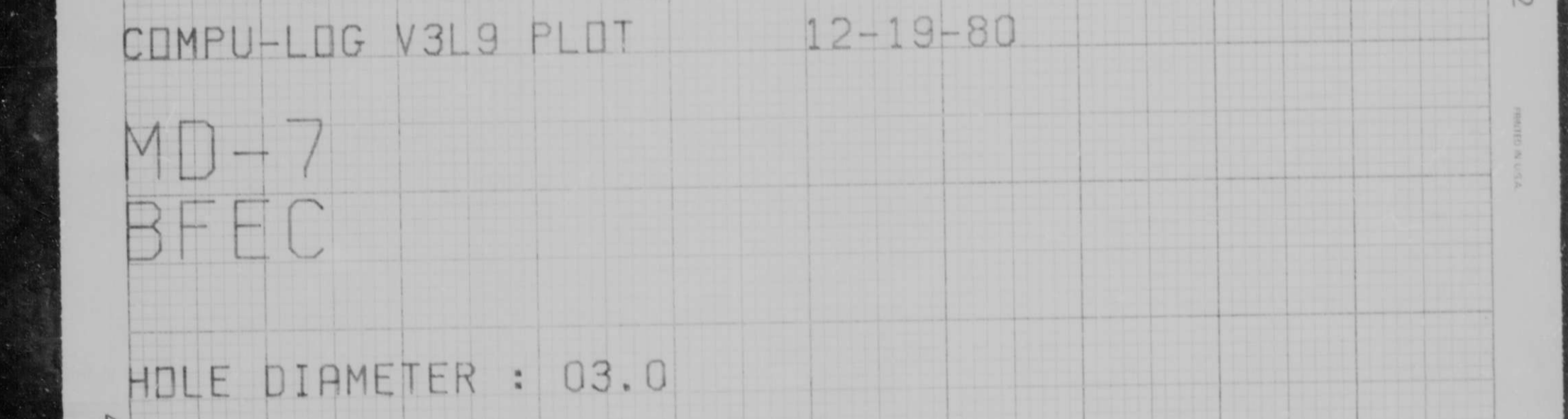
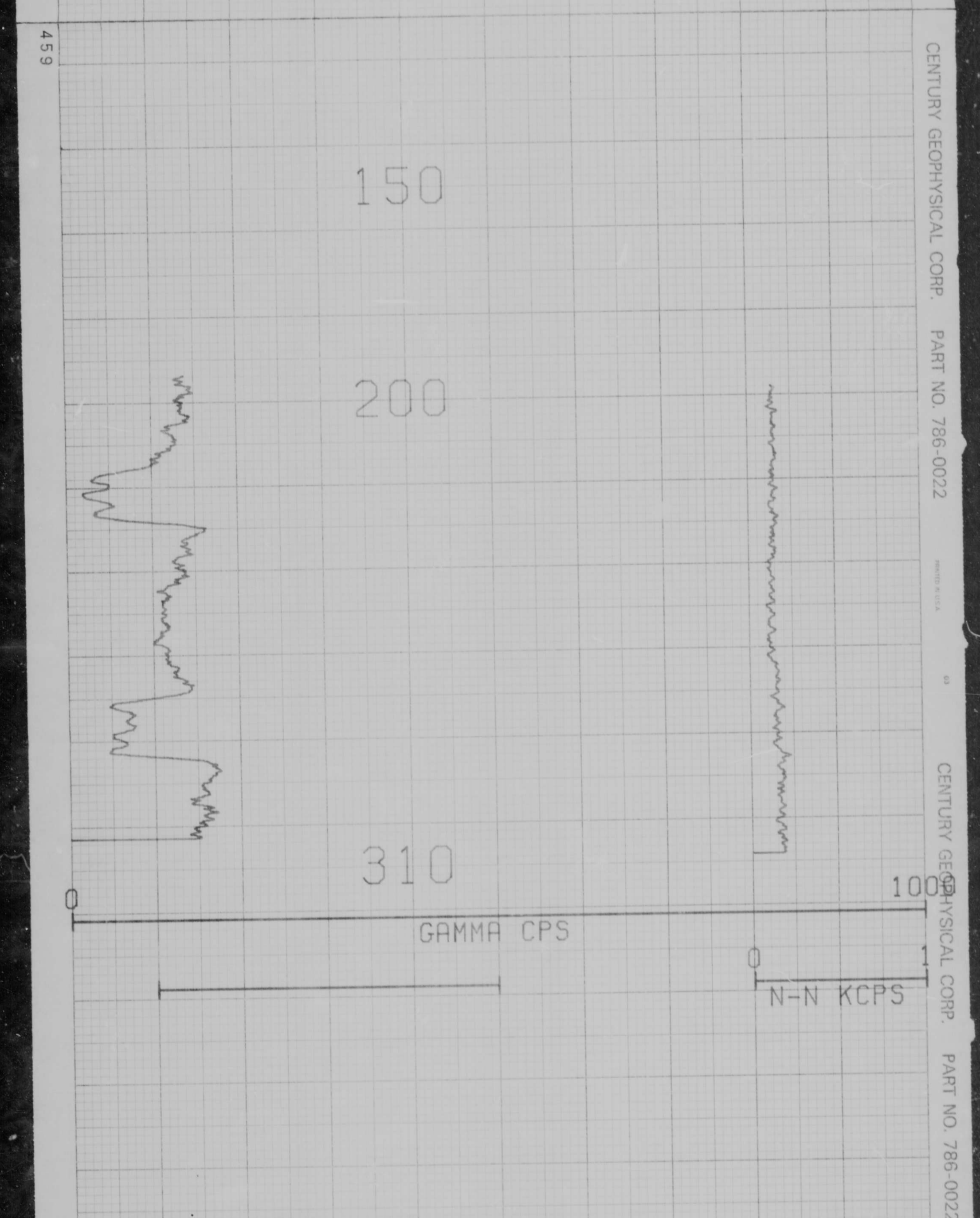
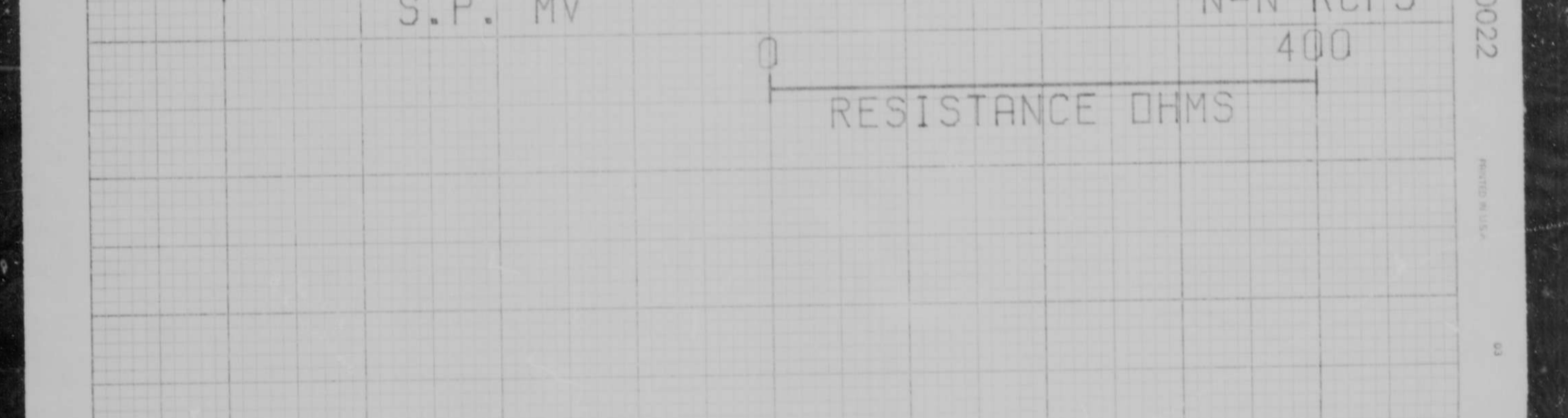
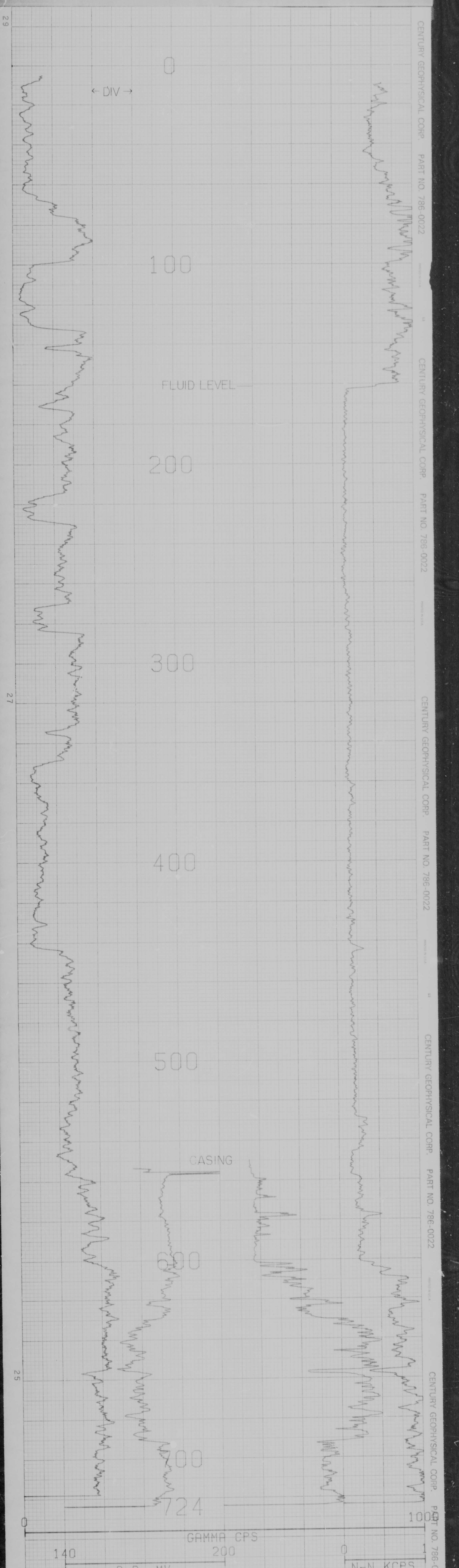
Remarks: Vertical Deviation unreliable in casing. See log section in hole.
 S.P. bias setting was: SP = -170
 There was a 12' core barrel left in bottom of hole.

Start	End	Rate	Standby
1000	1120	-	-
1120	1300	1.30 hrs	0

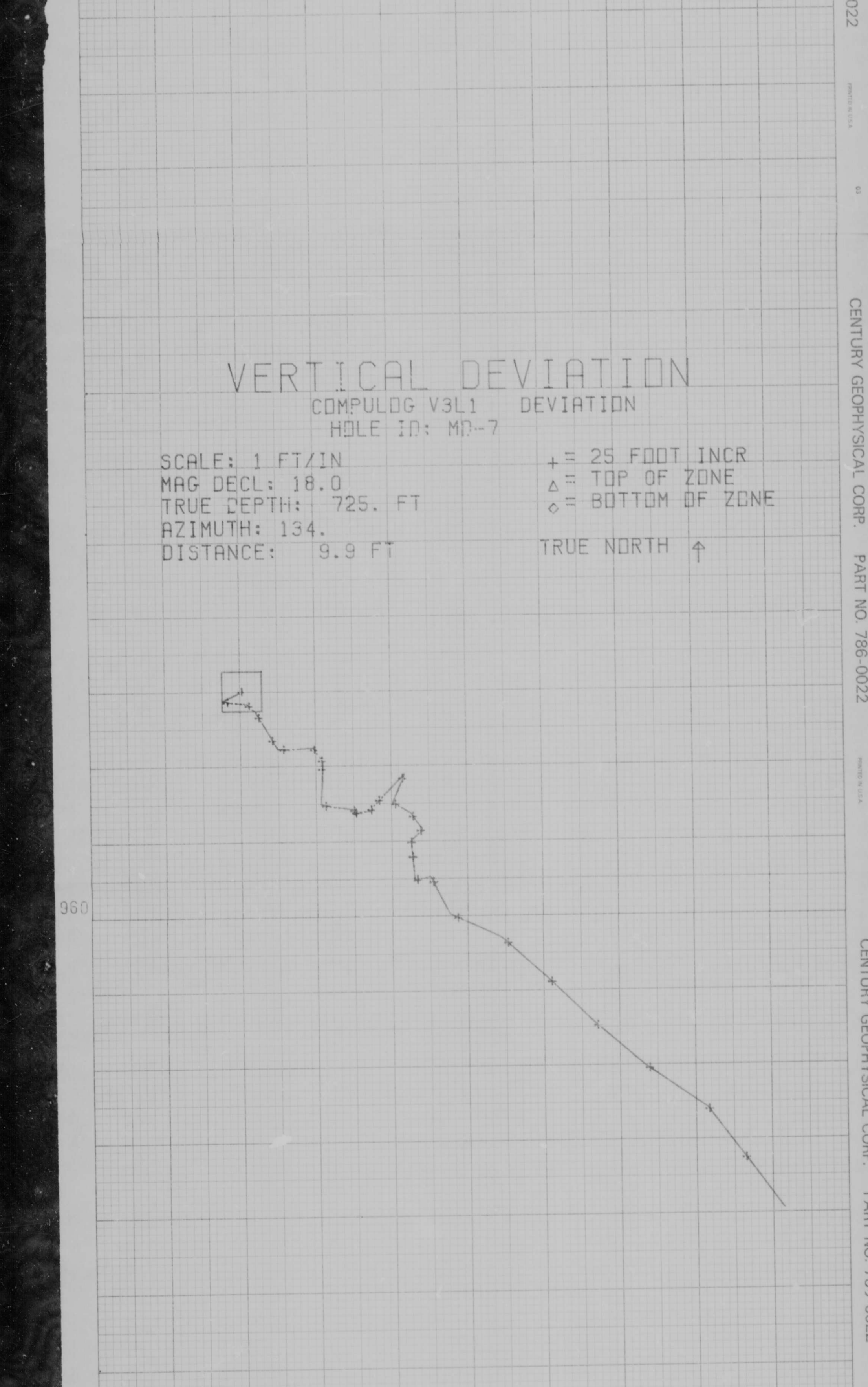
Checked Log = C.G.H.

Part	Type	Log	Depth From	Depth To	Footage Logged	Survey	Beam	Scale	Rate	Pen. Rate	Depth	Remarks
346	1	Gamma	718'	4'	714'	60	20'/in	100 cps	0	0	5	Main Log
346	1	SP	724'	556'	168'	60	20'/in	15 mV	1	1	5	Main Log
346	1	Res.	724'	556'	168'	60	20'/in	100 ohms	5	5	5	Main Log
346	1	N-N	723'	9'	714'	60	20'/in	500 cps	8	8	5	Main Log
346	2	Gamma	303'	193'	110'	60	20'/in	100 cps	0	0	5	Repeat Section
346	2	N-N	408'	198'	110'	60	20'/in	500 cps	8	8	5	Repeat Section
346	1	V-D	725	0	725	"	-	1'/in	-	-	25	Main Log
346	1	Temp.	724	14	710	"	-	-	-	-	5	Main Log

Total Footage Logged: 3519'



COMPU-LOG V3L9 PLOT 12-19-80
 MD-7
 BFEC
 HOLE DIAMETER : 03.0
 CAL STD CPS = 0000 CAL RUN CPS = 0000
 PROBE # 9055A -231 PROBE CAL BIAS = +00000
 TRUCK # 1825 DATA: V3L10
 APPL. #5 E
 GT



Temperature, Vertical Deviation

Truck 1915
Doera Pickering/Gregson

COMPANY Bendix EQUIPMENT DATA
 HOLE MD-7 CLAIM Not Available Tube Ser No. 9055A - 233 Probe Stem 1 7/8"
 PROPERTY Adel Quad
 AREA McDermitt Caldera
 COUNTY Malheur STATE OR
 LOCATION NE 4
 SEC 11 TWP 39S RGE 37E
 Permanent Datum Ground Level Elev 4754'
 Log Measured From GL 0 Ft Above Perm Datum
 Drilling Measured From GL Elev 4754'

CASING RECORD
 Run 100 (D) Wpt From To
 4.5" / 4.0" 0 42'
 3.5" / 3.06" 450' 570'

BOREHOLE RECORD
 Bit Size From To
 6" 0 42'
 3.78" (H0) 42' 556'
 2.98" (N0) 556' 736'

LOGGING DATA

Cart Type	Log Type	Depth From	Depth To	Spaced Loggers	Spaced Ft./Min	Depth Scale	Sens Units/Div	Pos Zero Div L	Digital Inert	Remarks
4k7	2 Gamma	601'	4'	597'	60	20"/in	100 cps	0	5'	Main Log
	2 SP	606'	555'	51'	60	20"/in	10 mV	1	5'	
	2 SP	450'	161'	289'	60	20"/in	40 mV	1	5'	Scale Change
	2 Resistance	606'	161'	445'	60	20"/in	50	5	5'	
	2 Neutron	606'	161'	445'	60	20"/in	250 cps	8	5'	
	2 Neutron	161'	9'	152'	60	20"/in	1500 cps	8	5'	Scale Change
	2 Temp.	608'	13'	593'	60	-	-	-	5.0'	
	2 V-D	600'	0'	600'	60	-	-	-	25.0'	
4k7	1 Gamma	601'	502'	99'	60	20"/in	100 cps	0	5'	Repeat Section
	1 SP	606'	505'	51'	60	20"/in	10 mV	1	5'	
	1 Res	606'	507'	99'	60	20"/in	50	5	5'	
	1 Neutron	606'	507'	99'	60	20"/in	250 cps	8	5'	

Remarks: Vertical Deviation log is inaccurate below 450' due to the casing at that depth.
 Casing in the hole from 550' to 570', driller was unable to retrieve.
 Fluid level determined from the neutron log.

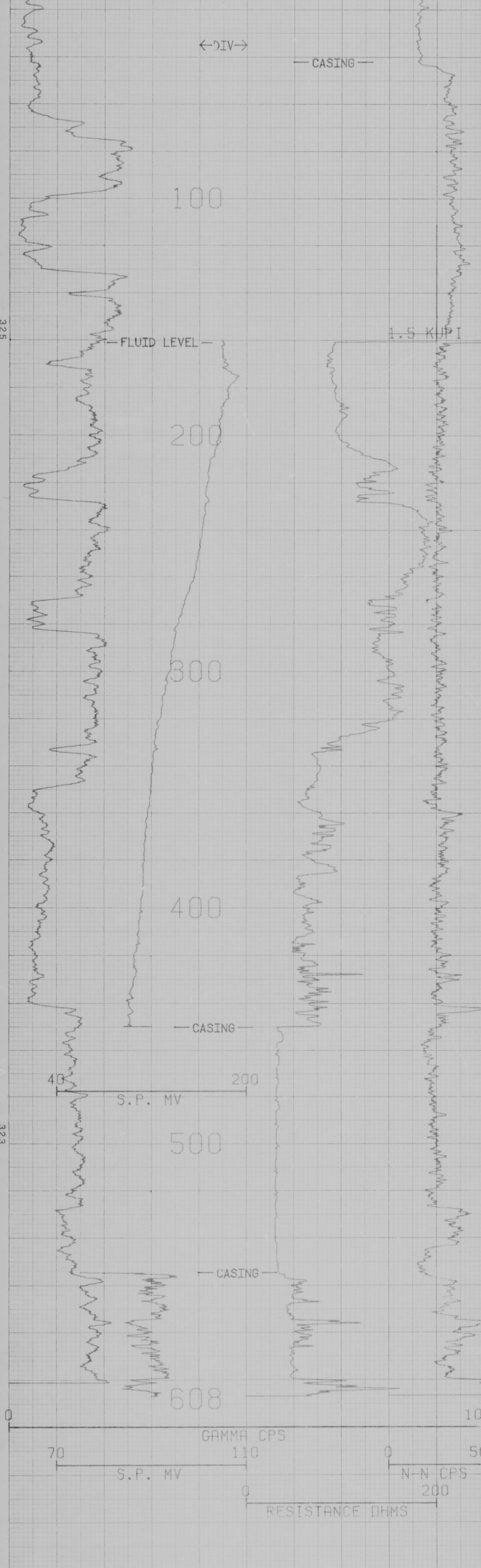
TIME RECORD

Start	Stop	Standby
	09:45	
	11:15	
	Total	1.5 hr
		0

LOGGING DATA

Cart Type	Log Type	Depth From	Depth To	Spaced Loggers	Spaced Ft./Min	Depth Scale	Sens Units/Div	Pos Zero Div L	Digital Inert	Remarks
4k7	2 Gamma	601'	4'	597'	60	20"/in	100 cps	0	5'	Main Log
	2 SP	606'	555'	51'	60	20"/in	10 mV	1	5'	
	2 SP	450'	161'	289'	60	20"/in	40 mV	1	5'	Scale Change
	2 Resistance	606'	161'	445'	60	20"/in	50	5	5'	
	2 Neutron	606'	161'	445'	60	20"/in	250 cps	8	5'	
	2 Neutron	161'	9'	152'	60	20"/in	1500 cps	8	5'	Scale Change
	2 Temp.	608'	13'	593'	60	-	-	-	5.0'	
	2 V-D	600'	0'	600'	60	-	-	-	25.0'	
4k7	1 Gamma	601'	502'	99'	60	20"/in	100 cps	0	5'	Repeat Section
	1 SP	606'	505'	51'	60	20"/in	10 mV	1	5'	
	1 Res	606'	507'	99'	60	20"/in	50	5	5'	
	1 Neutron	606'	507'	99'	60	20"/in	250 cps	8	5'	

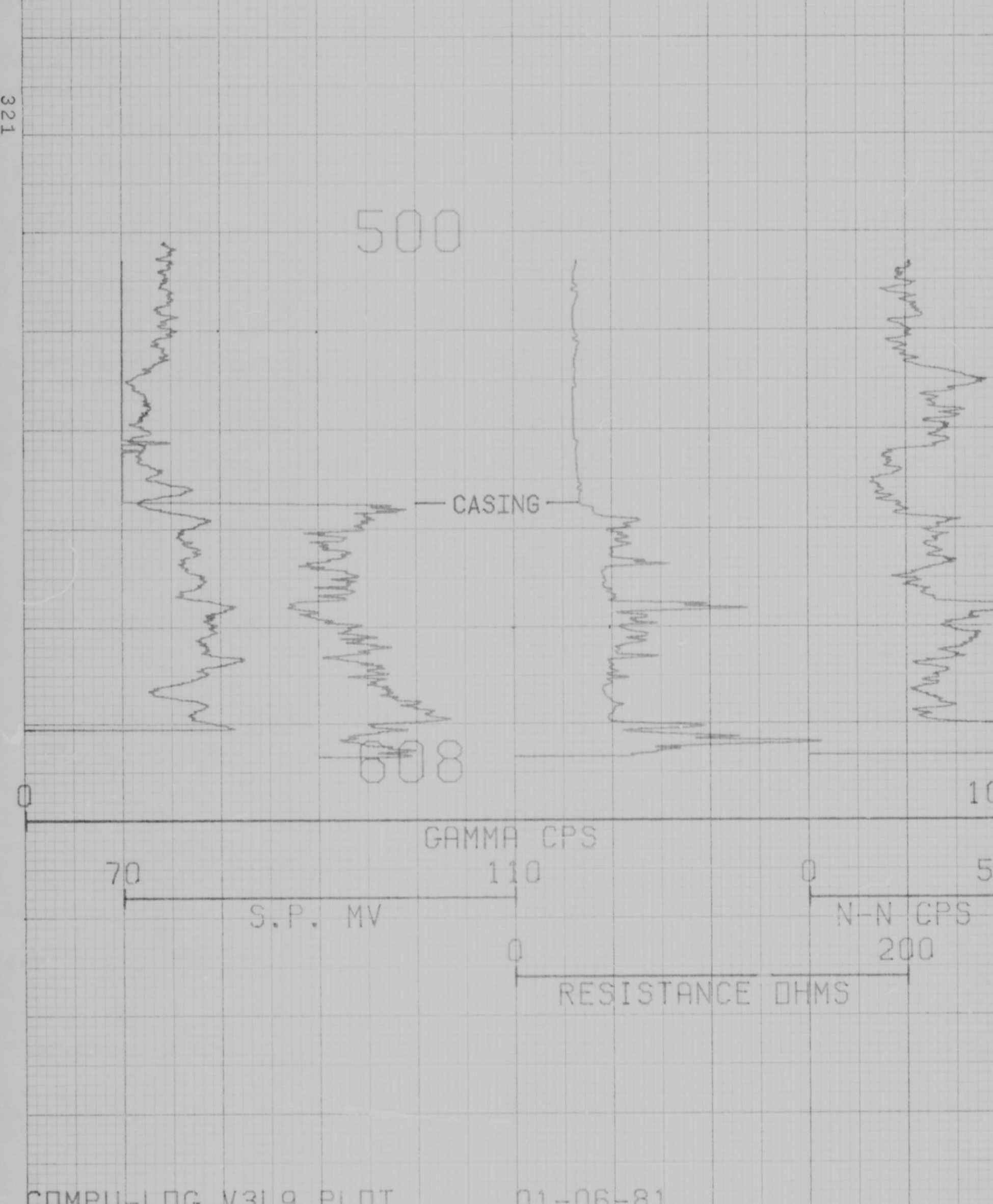
True Postage Logged 3520'



COMPU-LOG V3L9 PLOT 01-06-81

MD-7 MAIN
 BFEC
 MCDERMITT CALDERA
 HOLE DIAMETER : 03.0

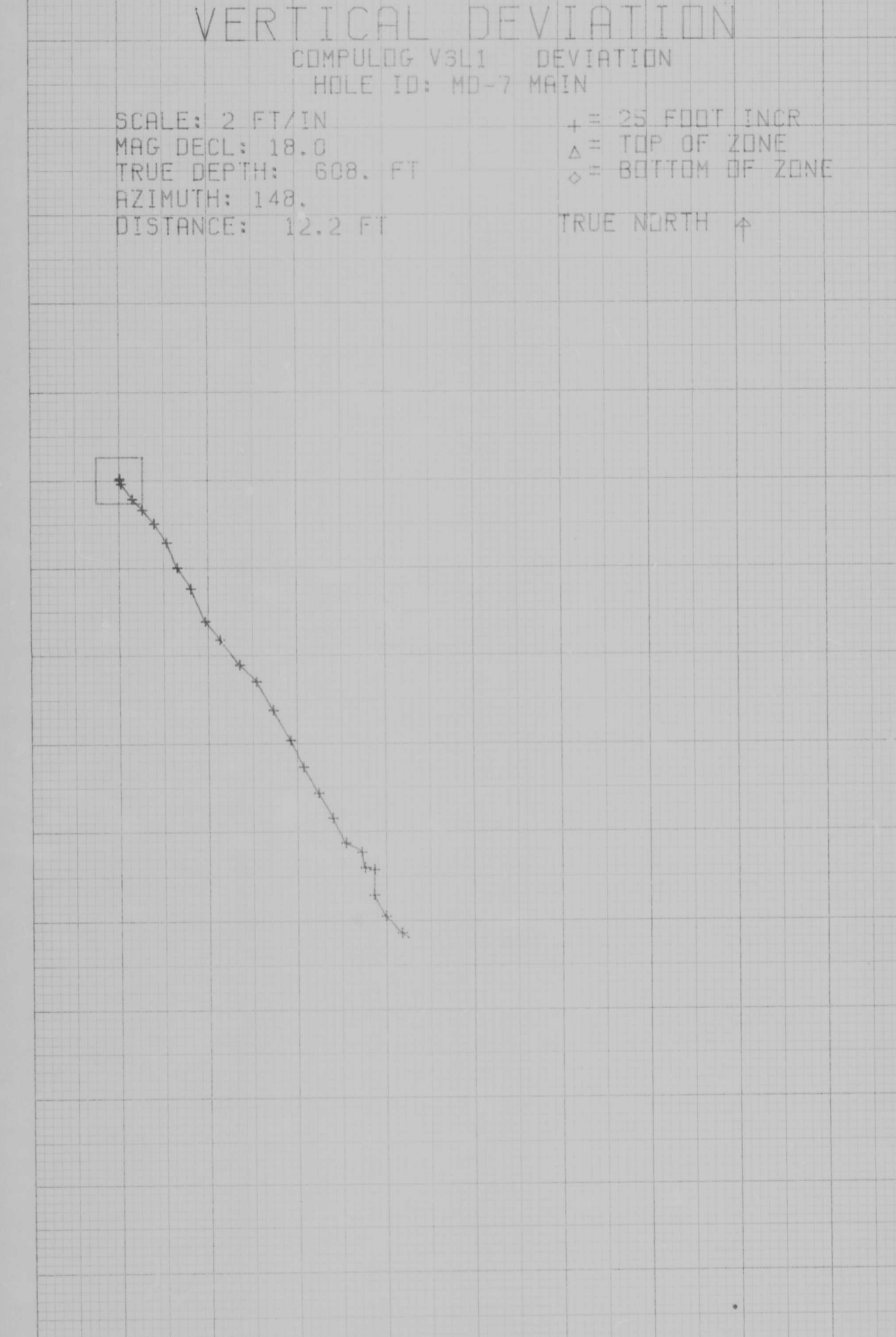
CAL STD CPS = 0000 CAL RUN CPS = 0000
 PROBE # 9055A -233 PROBE CAL BIAS = +00000
 TRUCK # 1915 DATA: V3L10
 APPL.#5 E
 DP/PG



COMPU-LOG V3L9 PLOT 01-06-81

MD-7 REPEAT SECTION
 BFEC
 MCDERMITT CALDERA
 HOLE DIAMETER : 03.0

CAL STD CPS = 0000 CAL RUN CPS = 0000
 PROBE # 9055A -233 PROBE CAL BIAS = +00000
 TRUCK # 1915 DATA: V3L10
 APPL.#5 E
 DP/PG



SAFETY FILM

CENTURY GEOPHYSICAL CORP. PART NO. 786-0022

Bendix Field Engineering Corporation
Ground Junction Operations
P.O. Box 1563
Grand Junction, CO 81502

Reprocessed JT

Date 12-19-80
Truck No. 1825
Operator Tapp

COMPANY				EQUIPMENT DATA			
Bendix		MD-7 CLAIM Not available		Probe Ser No. 251-7L		Probe diam. 2"	
PROPERTY Adel Quad		McDermitt		NUCLEAR			
AREA McDermitt		STATE OR		Run No.	1		
COUNTY Harney		N-N		Log Type	KUT		
LOCATION		Other Services GR, SP, R, N-N		Date	NA		
SEC 11 TWP 39S RGE 37E		GR, SP, R, N-N		Detector Size	11" x 12"		
Permanent Datum Ground Level Elev 5100'		K-Factor		Source Type	NA		
Log Measured From GL 0 Ft Above Perm Datum		XXXXXX		Source Strength	NA		
Drilling Measured From GL Elev 5100'		XXXXXX		Source Spacing	NA		
CASING RECORD		Date Cased		Ann. Gain	7.0 x 4		
4 1/2" OD/4" ID 0 42'		Casing Factor		Disk Level	NA		
3 3/8" OD/3 1/16" ID 0 556'		Run No.		ELECTRICAL			
BOREHOLE RECORD		Log Type		CALIPER			
Bit Size From To		Normal Spacing		Run No.			
6" 0 42'		SP Refractor		Device Type			
3.78" (HQ) 42' 556'		SP Offset		Tool Pattern			
2.98" (NQ) 556' 736'		Stuife Length		Minimum Span			
Depth-Driller 736'		Run No.		OTHER			
Depth-Logger 724'		Log Type		Rm @ Mean Temp			
Type Fluid in Hole Fluid Drill & Driscose		Device Type		Rif @ Mean Temp			
Salinity spm Not available		Tool Pattern		BHT 86.89F			
pH and Fluid Loss Not available		Minimum Span		Remarks K and T spike at 556' (Casing level).			
Density lb/gal Not available		Maximum Span		TIME RECORD			
Fluid Level 161'		OTHER		Start Rig Standby			
Rm @ Mean Temp Not available		Run No.		11:35 -			
Rif @ Mean Temp Not available		Log Type		End 15:00 -			
BHT 86.89F		Log Type		Total 5.45 hrs. 0			

Cart Type	Log Type	Depth From	Depth To	Footage Logged	Speed Ft./Min	Depth Scale	Bank Units/Div	Pen-Zero Div L	Digital Time	Remarks
686 1	K	224	5	719	5	26"/in	5%	0	.5'	Main
" "	U	"	"	"	"	"	5 ppm	2	"	"
" "	T	"	"	"	"	"	10 ppm	4	"	"
" "	TG	"	"	"	"	"	30 cps	6	"	"
" 2	KUT	255	194	61	"	"	As above	-	"	Repeat

Total Footage Logged 780'

Remarks K and T spike at 556' (Casing level).

Start	Rig	Standby
11:35	-	-
End 15:00	-	-
Total	5.45 hrs.	0

Cart No.	Log Type	Depth From	Depth To	Footage Logged	Speed Ft./Min	Depth Scale	Bank Units/Div	Pen-Zero Div L	Digital Time	Remarks
686 1	K	224	5	719	5	26"/in	5%	0	.5'	Main
" "	U	"	"	"	"	"	5 ppm	2	"	"
" "	T	"	"	"	"	"	10 ppm	4	"	"
" "	TG	"	"	"	"	"	30 cps	6	"	"
" 2	KUT	255	194	61	"	"	As above	-	"	Repeat

Total Footage Logged 780'

Remarks K and T spike at 556' (Casing level).

Start	Rig	Standby
11:35	-	-
End 15:00	-	-
Total	5.45 hrs.	0

Cart No.	Log Type	Depth From	Depth To	Footage Logged	Speed Ft./Min	Depth Scale	Bank Units/Div	Pen-Zero Div L	Digital Time	Remarks
686 1	K	224	5	719	5	26"/in	5%	0	.5'	Main
" "	U	"	"	"	"	"	5 ppm	2	"	"
" "	T	"	"	"	"	"	10 ppm	4	"	"
" "	TG	"	"	"	"	"	30 cps	6	"	"
" 2	KUT	255	194	61	"	"	As above	-	"	Repeat

Total Footage Logged 780'

Remarks K and T spike at 556' (Casing level).

Start	Rig	Standby
11:35	-	-
End 15:00	-	-
Total	5.45 hrs.	0

Cart No.	Log Type	Depth From	Depth To	Footage Logged	Speed Ft./Min	Depth Scale	Bank Units/Div	Pen-Zero Div L	Digital Time	Remarks
686 1	K	224	5	719	5	26"/in	5%	0	.5'	Main
" "	U	"	"	"	"	"	5 ppm	2	"	"
" "	T	"	"	"	"	"	10 ppm	4	"	"
" "	TG	"	"	"	"	"	30 cps	6	"	"
" 2	KUT	255	194	61	"	"	As above	-	"	Repeat

Total Footage Logged 780'

Remarks K and T spike at 556' (Casing level).

Start	Rig	Standby
11:35	-	-
End 15:00	-	-
Total	5.45 hrs.	0

Cart No.	Log Type	Depth From	Depth To	Footage Logged	Speed Ft./Min	Depth Scale	Bank Units/Div	Pen-Zero Div L	Digital Time	Remarks
686 1	K	224	5	719	5	26"/in	5%	0	.5'	Main
" "	U	"	"	"	"	"	5 ppm	2	"	"
" "	T	"	"	"	"	"	10 ppm	4	"	"
" "	TG	"	"	"	"	"	30 cps	6	"	"
" 2	KUT	255	194	61	"	"	As above	-	"	Repeat

Total Footage Logged 780'

Remarks K and T spike at 556' (Casing level).

Start	Rig	Standby
11:35	-	-
End 15:00	-	-
Total	5.45 hrs.	0

Cart No.	Log Type	Depth From	Depth To	Footage Logged	Speed Ft./Min	Depth Scale	Bank Units/Div	Pen-Zero Div L	Digital Time	Remarks
686 1	K	224	5	719	5	26"/in	5%	0	.5'	Main
" "	U	"	"	"	"	"	5 ppm	2	"	"
" "	T	"	"	"	"	"	10 ppm	4	"	"
" "	TG	"	"	"	"	"	30 cps	6	"	"
" 2	KUT	255	194	61	"	"	As above	-	"	Repeat

Total Footage Logged 780'

Remarks K and T spike at 556' (Casing level).

Start	Rig	Standby
11:35	-	-
End 15:00	-	-
Total	5.45 hrs.	0

Cart No.	Log Type	Depth From	Depth To	Footage Logged	Speed Ft./Min	Depth Scale	Bank Units/Div	Pen-Zero Div L	Digital Time	Remarks
686 1	K	224	5	719	5	26"/in	5%	0	.5'	Main
" "	U	"	"	"	"	"	5 ppm	2	"	"
" "	T	"	"	"	"	"	10 ppm	4	"	"
" "	TG	"	"	"	"	"	30 cps	6	"	"
" 2	KUT	255	194	61	"	"	As above	-	"	Repeat

Total Footage Logged 780'

Remarks K and T spike at 556' (Casing level).

Start	Rig	Standby
11:35	-	-
End 15:00	-	-
Total	5.45 hrs.	0

Cart No.	Log Type	Depth From	Depth To	Footage Logged	Speed Ft./Min	Depth Scale	Bank Units/Div	Pen-Zero Div L	Digital Time	Remarks
686 1	K	224	5	719	5	26"/in	5%	0	.5'	Main
" "	U	"	"	"	"	"	5 ppm	2	"	"
" "	T	"	"	"	"	"	10 ppm	4	"	"
" "	TG	"	"	"	"	"	30 cps	6	"	"
" 2	KUT	255	194	61	"	"	As above	-	"	Repeat

Total Footage Logged 780'

Remarks K and T spike at 556' (Casing level).

Start	Rig	Standby
11:35	-	-
End 15:00	-	-
Total	5.45 hrs.	0

Cart No.	Log Type	Depth From	Depth To	Footage Logged	Speed Ft./Min	Depth Scale	Bank Units/Div	Pen-Zero Div L	Digital Time	Remarks
686 1	K	224	5	719	5	26"/in	5%	0	.5'	Main
" "	U	"	"	"	"	"	5 ppm	2	"	"
" "	T	"	"	"	"	"	10 ppm	4	"	"
" "	TG	"	"	"	"	"	30 cps	6	"	"
" 2	KUT	255	194	61	"	"	As above	-	"	Repeat

Total Footage Logged 780'

Remarks K and T spike at 556' (Casing level).

Start	Rig	Standby
11:35	-	-
End 15:00	-	-
Total	5.45 hrs.	0

Cart No.	Log Type	Depth From	Depth To	Footage Logged	Speed Ft./Min	Depth Scale	Bank Units/Div	Pen-Zero Div L	Digital Time	Remarks
686 1	K	224	5	719	5	26"/in	5%	0	.5'	Main
" "	U	"	"	"	"	"	5 ppm	2	"	"
" "	T	"	"	"	"	"	10 ppm	4	"	"
" "	TG	"	"	"	"	"	30 cps	6	"	"
" 2	KUT	255	194	61	"	"	As above	-	"	Repeat

Total Footage Logged 780'

Remarks K and T spike at 556' (Casing level).

Start	Rig	Standby
11:35	-	-
End 15:00	-	-
Total	5.45 hrs.	0

Cart No.	Log Type	Depth From	Depth To	Footage Logged	Speed Ft./Min	Depth Scale	Bank Units/Div	Pen-Zero Div L	Digital Time	Remarks
686 1	K	224	5	719	5	26"/in	5%	0	.5'	Main
" "	U	"	"	"	"	"	5 ppm	2	"	"
" "	T	"	"	"	"	"	10 ppm	4	"	"
" "	TG	"	"	"	"	"	30 cps	6	"	"
" 2	KUT	255	194	61	"	"	As above	-	"	Repeat

Total Footage Logged 780'

Remarks K and T spike at 556' (Casing level).

Start	Rig	Standby
11:35	-	-
End 15:00	-	-
Total	5.45 hrs.	0

Cart No.	Log Type	Depth From	Depth To	Footage Logged	Speed Ft./Min	Depth Scale	Bank Units/Div	Pen-Zero Div L	Digital Time	Remarks
686 1	K	224	5	719	5	26"/in	5%	0	.5'	Main
" "	U	"	"	"	"	"	5 ppm	2	"	"
" "	T	"	"	"	"	"	10 ppm	4	"	"
" "	TG	"	"	"	"	"	30 cps	6	"	"
" 2	KUT	255	194	61	"	"	As above	-	"	Repeat

Total Footage Logged 780'

Remarks K and T spike at 556' (Casing level).

Start	Rig	Standby
11:35	-	-
End 15:00	-	-
Total	5.45 hrs.	0

Cart No.	Log Type	Depth From	Depth To	Footage Logged	Speed Ft./Min	Depth Scale	Bank Units/Div	Pen-Zero Div L	Digital Time	Remarks
686 1	K	224	5	719	5	26"/in	5%	0	.5'	Main
" "	U	"	"	"	"	"	5 ppm	2	"	"
" "	T	"	"	"	"	"	10 ppm	4	"	"
" "	TG	"	"	"	"	"	30 cps	6	"	"
" 2	KUT	255	194	61	"	"	As above	-	"	Repeat

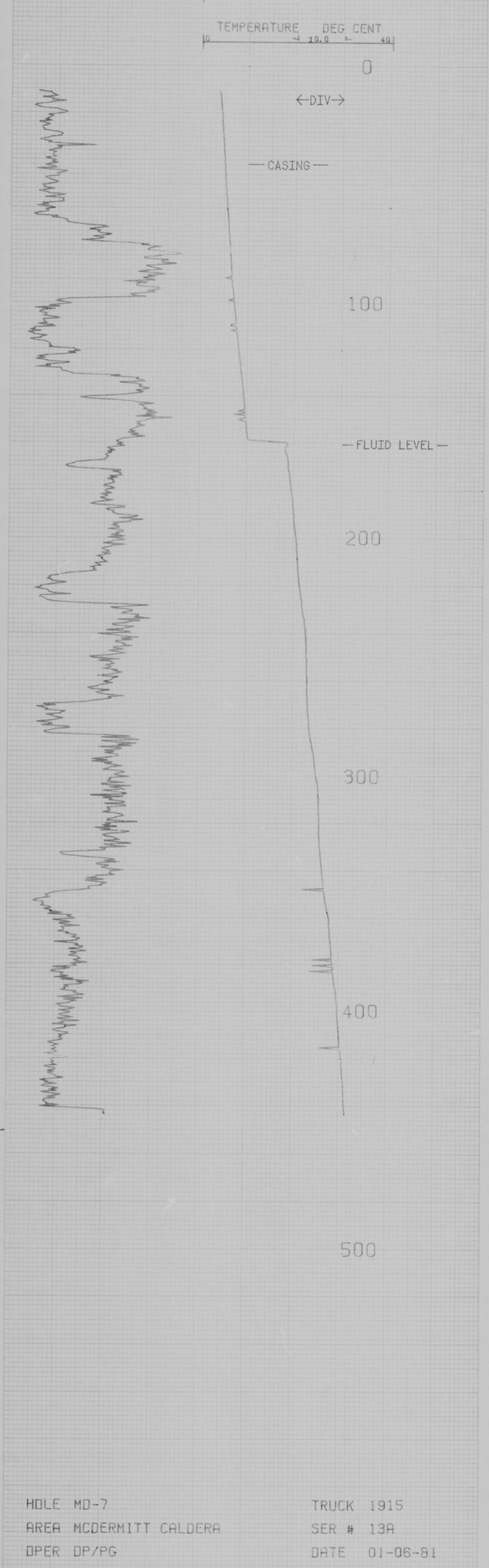
Total Footage Logged 780'

Remarks K and T spike at 556' (Casing level).

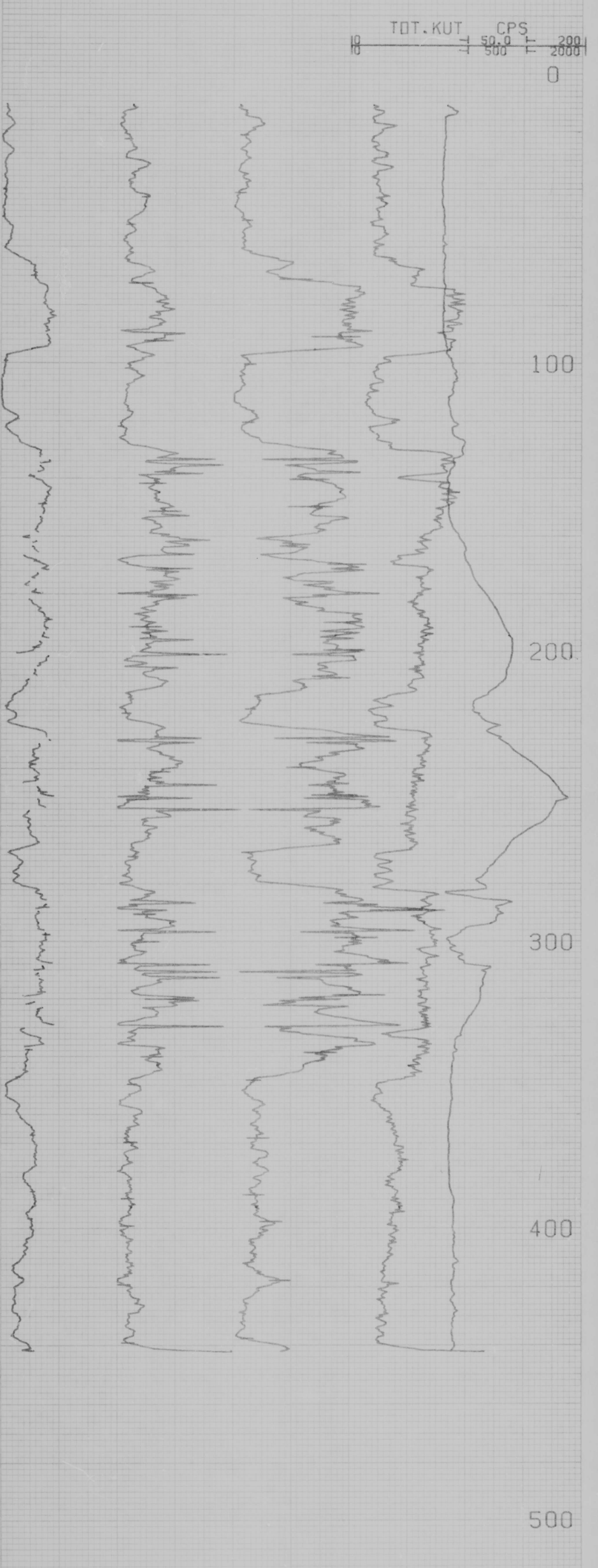
Start	Rig	Standby
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Hendrix Field Engineering Corporation Grand Junction Operators P.O. Box 1569 Grand Junction, CO 81502		KUT, Caliper, Temperature		Date: 1-6-81 Truck #: 1915 Operator: Pickering/Gregson					
COMPANY BFEC HOLE MD-7 CLAIM Not Available PROPERTY Adel Quad AREA McDermitt Caldera COUNTY Huerfano STATE CO			EQUIPMENT DATA Probe Size: 251A-13 Probe Diam: 2 1/8" Run No: 2 Log Type: KUT Detector Size: 11" x 12" Source Type: NA Source Strength: NA Source Spacing: NA Amp. Gain: 7.9 x 4 Dist. Level: NA K-Factor: <input checked="" type="checkbox"/> K <input type="checkbox"/> U <input type="checkbox"/> T Deadtime: Original: .232 1.659 7.916 (Large Xtal) Original: NA Adjusting: NA Gain Calc: 12-17-80 Casing Factor:						
LOCATION NE1 SEC 11 TWP 39S RGE 37E Ground Level Elev: 4754' Log Measured From: GL 0 Ft Above Perm Datum Drilling Measured From: GL Elev: 4754'			NUCLEAR Run No: 2 Log Type: KUT Normal Spacing: NA SP Reference: NA SP Offset: NA Shuttle Length: NA						
CASING RECORD Size (OD) (ID) Wgt From To 4.5" OD/4.0" ID 0 42' 3.5" OD/3.06" ID 450' 570'			ELECTRICAL Run No: 2 Log Type: Temperature						
BOREHOLE RECORD Bit Size From To 6" 0 42' 3.78" (HQ) 42' 556' 2.98" (NQ) 556' 736'			CALIPER Run No: 2 Device Type: 3-arm Tool Position: Centered Minimum Span: 2 1/8" Maximum Span: 22 1/2"						
Depth-Driller: 736' Depth-Logger: 447' Type Fluid in Hole: Fluid f Drill & Driscose Salinity ppm: Not available pH and Fluid Loss: Not available Density (lb/gal): Not available Fluid Level: 161' Cement @ bit: none Rin @ Meas Temp: Not available Res @ Meas Temp: Not available CHT: 88°F			MINOR Run No: 2 Log Type: Temperature						
Remarks: Casing from 450' to 570' was left in the hole, the drillers were unable to retrieve it. Tool caught on casing going downhole, after several attempts raising the tool and trying to set it into the casing, the log was pulled from the top of the casing to surface. Temperature spikes are an unresolved electronic problem. Fluid level determined from neutron log pulled 1-6-81.					TIME RECORD Start: 11:15 End: 16:00 Total: 4.75 hr 0				
LOGGING DATA									
Core Type	Log Type	Depth From To	Footage Logged	Speed Ft/Min	Depth Scale	Sens Units/Div	Pct Zero Div L	Digital Time Intri	Remarks
447	3 Tot. KUT Temp.	443 " "	432' 432'	18 " "	20"/in " "	30 cps 10°C	0 4	5' "	Main Down Phase 1
	3 K	442 " "	431' 431'	5 " "	20"/in " "	5 Pct. 10 ppm	0 2	" "	Main UP Phase 2
	U	" " "	431' 431'	" " "	" " "	10 ppm	2	" "	"
	T	" " "	431' 431'	" " "	" " "	10 ppm	4	" "	"
	Tot. KUT	" " "	431' 431'	" " "	" " "	50 cps	6	" "	"
	Caliper	" " "	431' 431'	" " "	" " "	1.0 inches	7	" "	"
Total Footage Logged				1,294'					

HOLE MD-7 TRUCK 1915
 AREA MCDERMITT CALDERA SER # 13A
 OPER DP/PG DATE 01-06-81



HOLE MD-7 TRUCK 1915
 AREA MCDERMITT CALDERA SER # 13A
 OPER DP/PG DATE 01-06-81



HOLE MCDERMITT #8
AREA CORDEX
OPER DT/JP

TRUCK 1912
SER # 5
DATE 02-13-81

60T

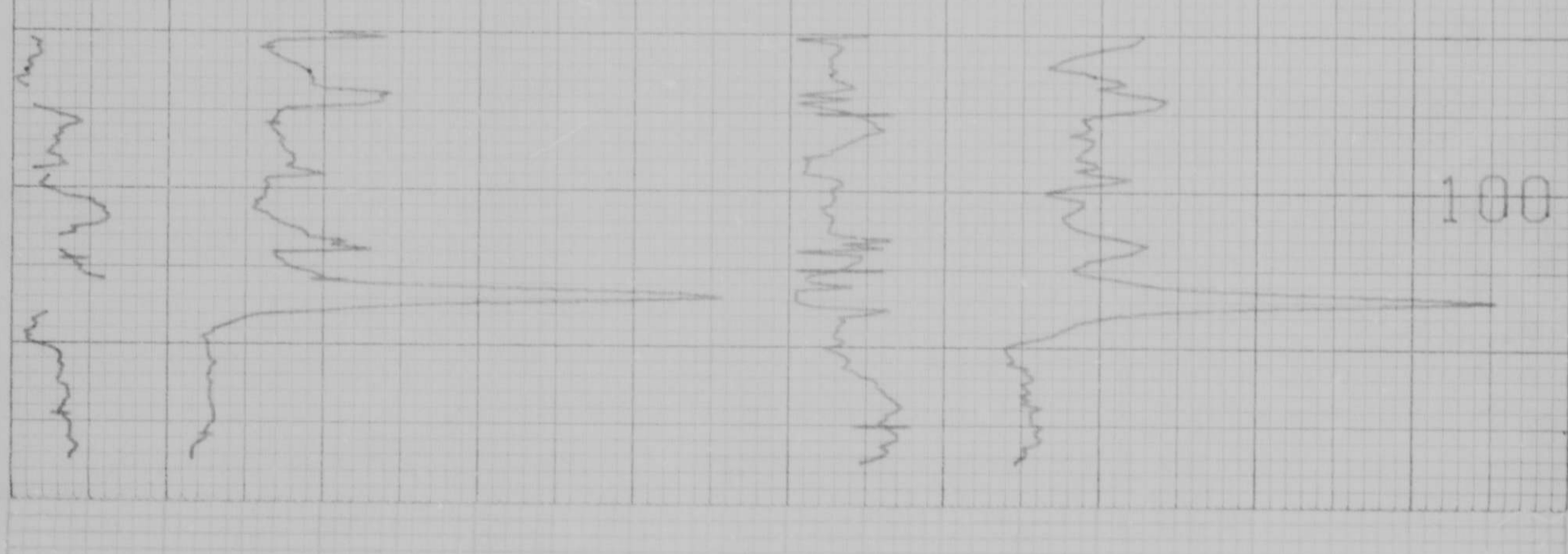
K (APPARENT) PCT

U (APPARENT) PPM

T (APPARENT) PPM

REPEAT SECTION

TOTAL KUT CPS

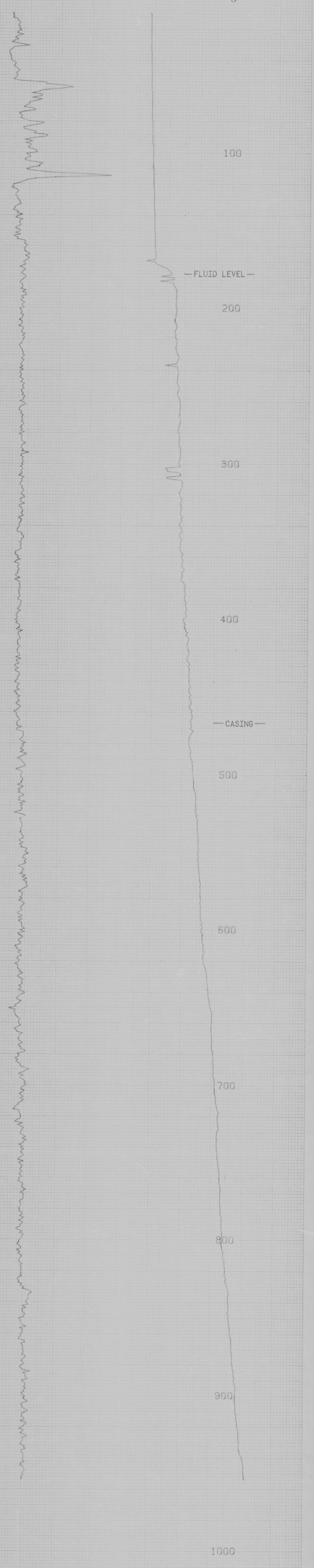


HOLE MCDERMITT #8
AREA CORDEX
OPER DT/JP

TRUCK 1912
SER # 5
DATE 02-13-81

TOTAL KUT CPS

TEMPERATURE DEG CENT



TOTAL KUT CPS

TEMPERATURE DEG CENT

Bendix Field Engineering Corporation
 1-0 Box 1000
 Denver, Colorado 80202

KUT, Temperature, Caliper

Date: 2-14-81
 Truck No: 1912
 Operator: Traub/Privette

COMPANY: Bendix
HOLE: McDermit #8 CLAIM JR-100
PROPERTY: Cordex
AREA: Cordex
COUNTY: Malheur STATE OR

EQUIPMENT DATA
 Range Log No: 231A-5
 Hole No: 2
 Log No: KUT
 Log Type: NA
 Log Date: 11" x 12"
 Log Time: NA
 Log Depth: NA
 Log Rate: 4 x 7.2C
 Log Temp: NA
 Log Pressure: NA
 Log Density: NA
 Log Viscosity: NA
 Log Solids: NA
 Log Sp. Gr.: NA
 Log. Xtal: KXXXX .228
 Log. Xtal: KXXXX 1.628
 Log. Xtal: KXXXX 7.609

CASING RECORD
 Hole No: 1-22-81
 Casing Type: See Remarks

BOREHOLE RECORD
 Log No: 2
 Log Type: 3 armed
 Log Date: Centered
 Log Rate: 2 1/8"
 Log Temp: 22"

CALIPER
 Hole No: 2
 Log Type: Temperature

Remarks: Run #1 was made through 467' of HQ drill rod. This was pulled before run #2 was logged. Steel casing factors are applied to the KUT apparent concentrations using the listed casing schedule by the onboard computer.

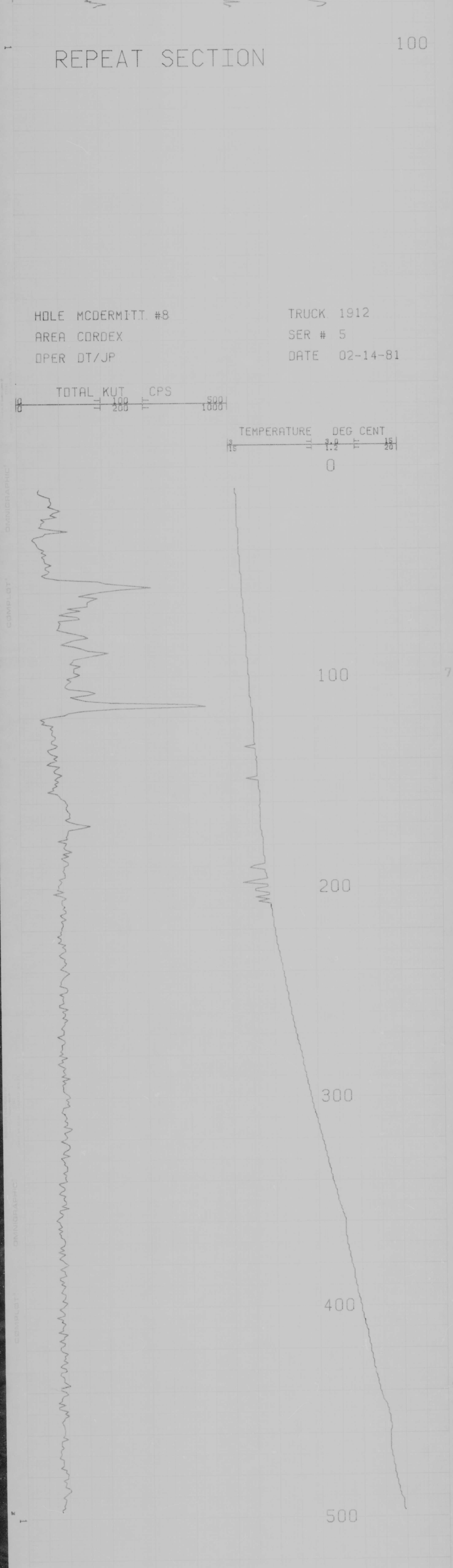
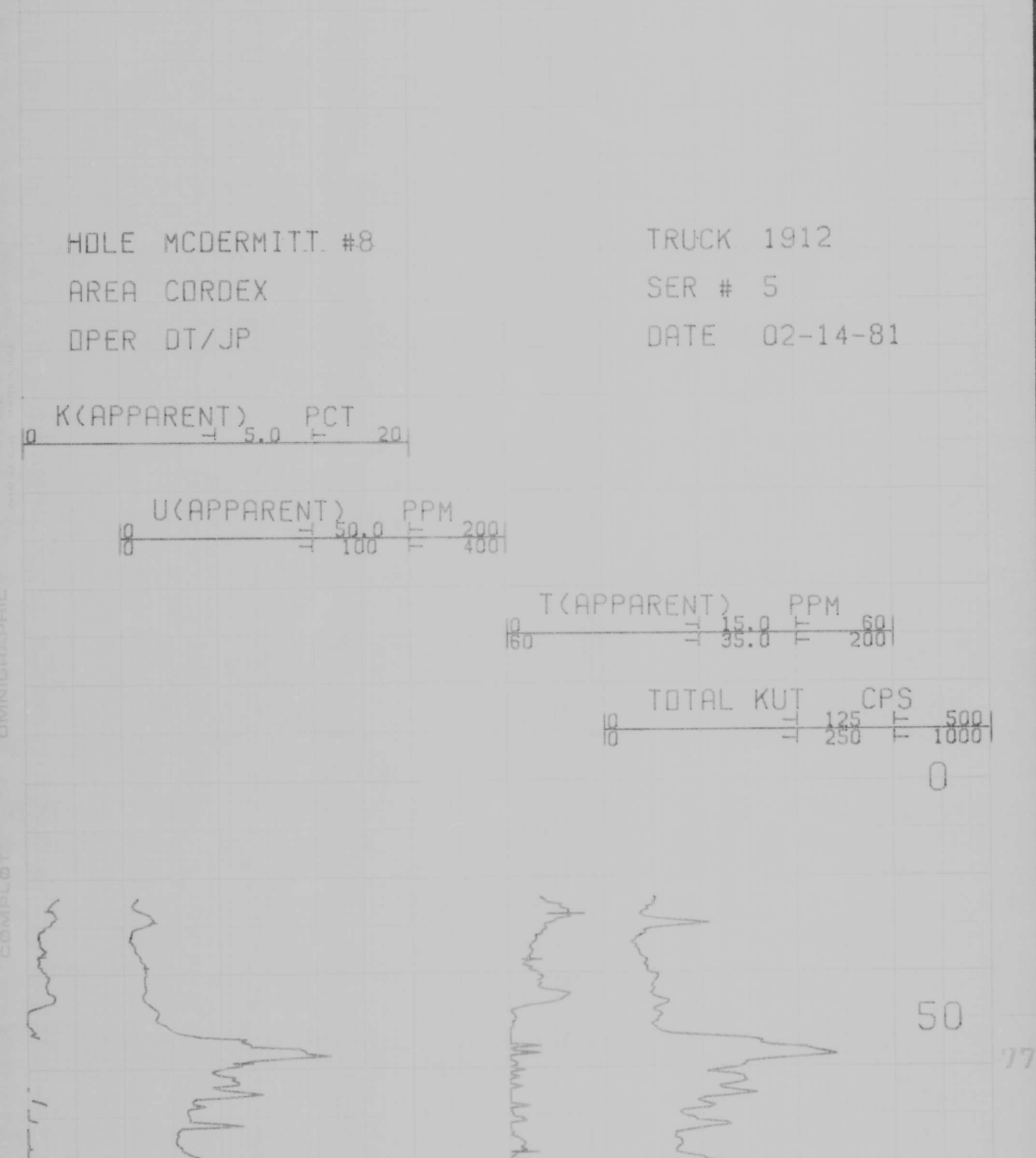
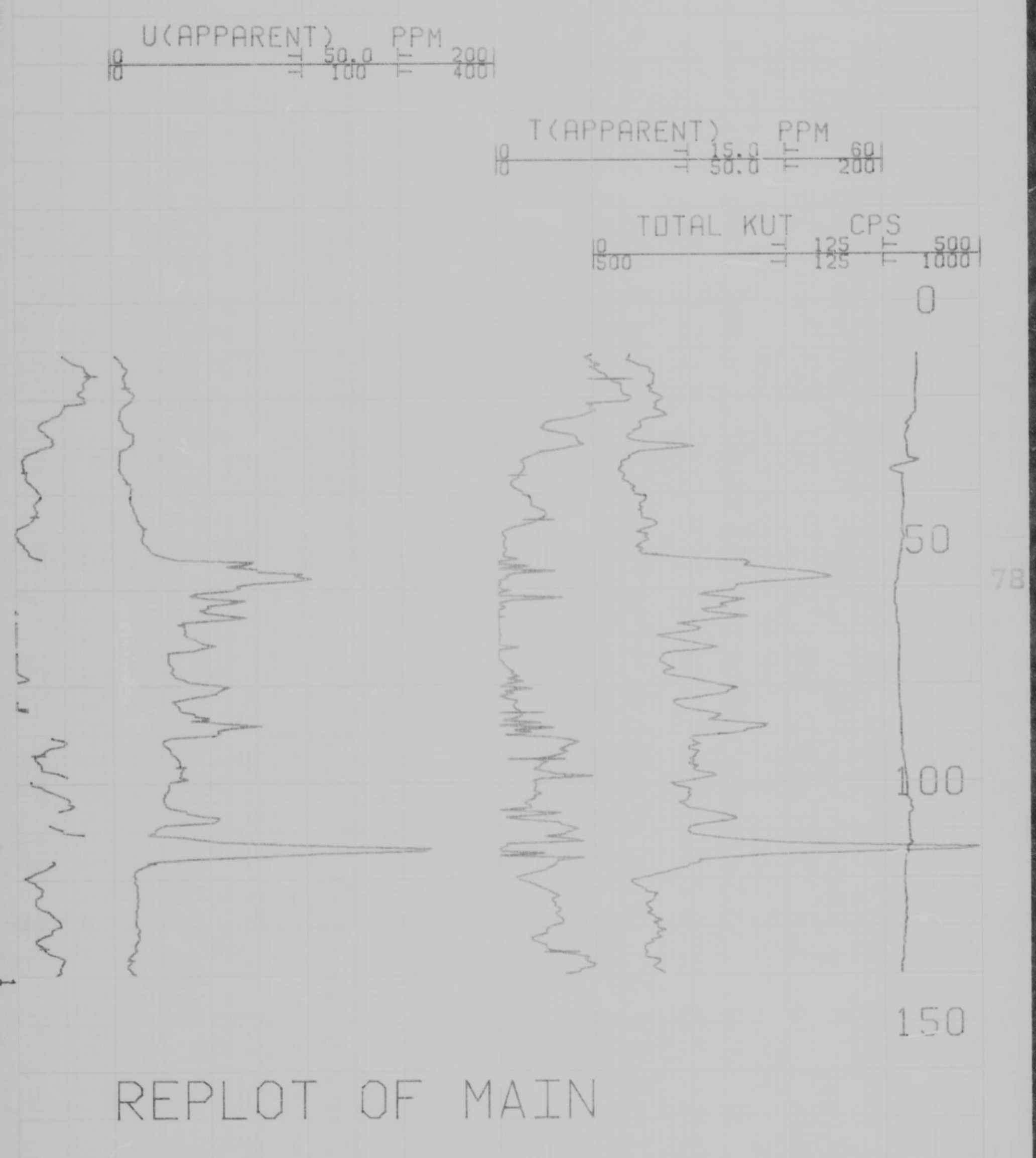
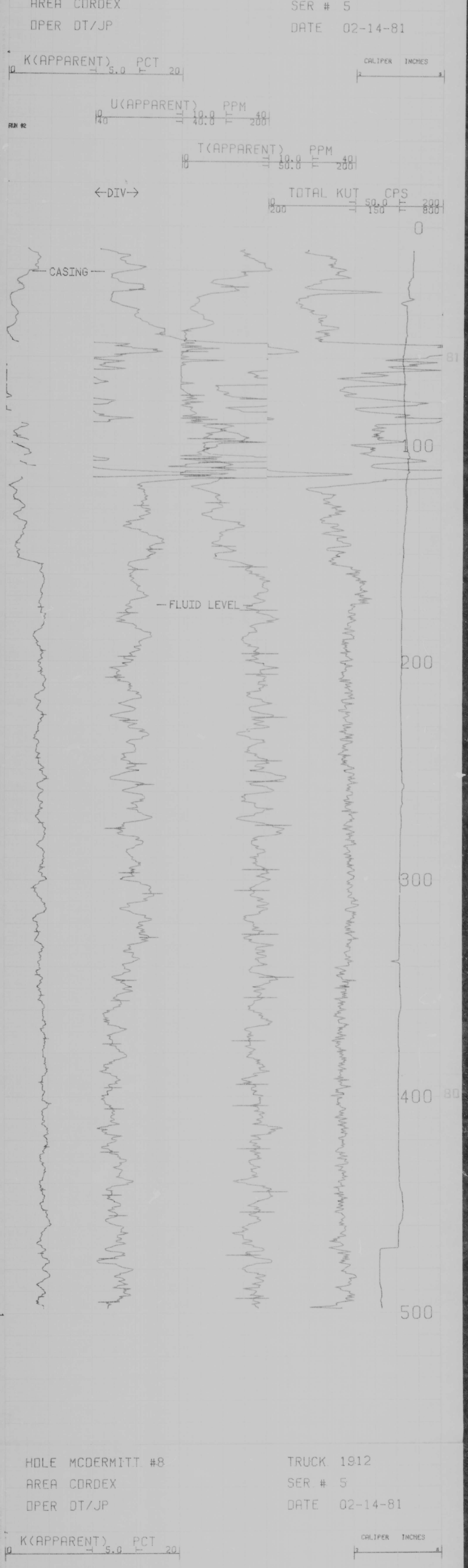
TIME RECORD
 Run #1: 0900
 Run #2: 1200
 Total: 3 hrs., 0

Type fluid in hole: Polydrill, Driscose, Quik Seal, PQ 460, Paper

LOGGING DATA

Core No.	Type	Log Type	Depth From	Depth To	Interval Logged	Speed Ft./Min.	Depth Status	Sp. Gr.	Temp. Div	Pen. Rate Div	Sp. Gr. Div	Temp. Div	Remarks
496	3	K	498	11	487	5	20"/div	5"/div	0	0	.5"	Main, Run #2	
"	"	U	"	"	"	"	"	10 ppm/div	2.0	"	"	"	
"	"	T	"	"	"	"	"	15 ppm/div	4.0	"	"	"	
"	"	TC	"	"	"	"	"	50 cps/div	6.0	"	"	"	
"	"	Caliper	"	"	487	"	"	1.5"/div	8.0	"	"	"	
496	3	U	140	11	NA	"	"	5"/div	0	"	"	Replot of main log, on scale	
"	"	T	"	"	"	"	"	50 ppm/div	1.0	"	"	"	
"	"	TC	"	"	"	"	"	15 ppm/div	5.0	"	"	"	
"	"	Caliper	"	"	"	"	"	125 cps/div	6.0	"	"	"	
496	3	K	82	24	58	"	"	5"/div	-	"	"	Repeat, Run #2	
"	"	U	"	"	"	"	"	50 ppm/div	1.0	"	"	"	
"	"	T	"	"	"	"	"	15 ppm/div	5.0	"	"	"	
"	"	TC	"	"	"	"	"	125 cps/div	6.0	"	"	"	
496	3	Temp.	497	11	486	30	"	3°C	5	1.0"	"	"	

Total Fluid Logged: 1518'



COMPANY: McDermitt #9 CLAIM VJ
PROPERTY: Locke-Jacobs
AREA: McDermitt
COUNTY: Malheur STATE OR

LOGGING DATA:
 Log Type: 2
 Run No: 2
 Temperature: 2
 Deviation: 2
 Magnetic Declination: 18.0

LOGGING DATA:
 Log Type: 2
 Run No: 2
 Temperature: 2
 Deviation: 2
 Magnetic Declination: 18.0

Log Type	Run No	Temp	Deviation	Magnetic Declination
2	2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

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2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

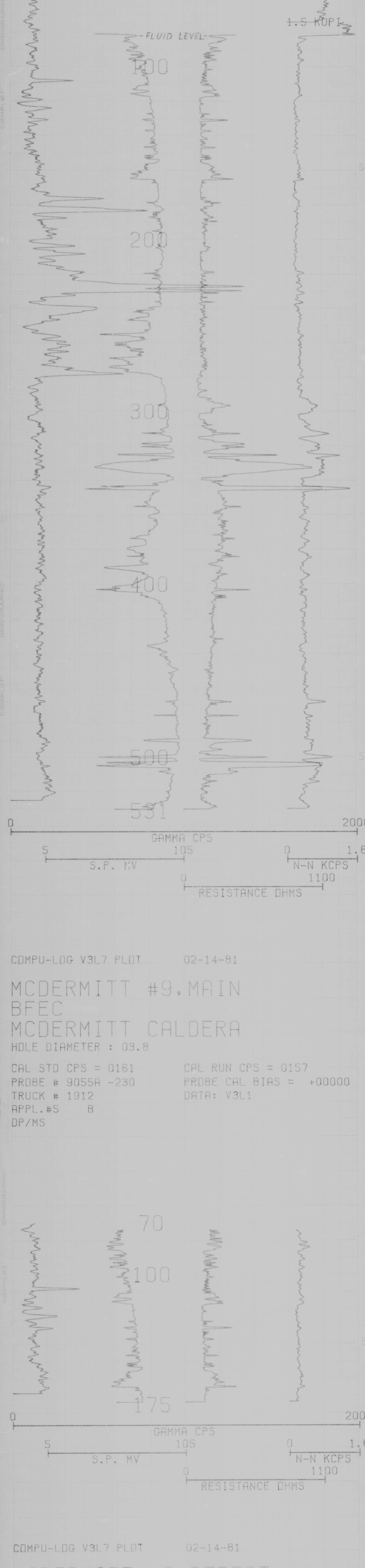
Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0

Run No	Temp	Deviation	Magnetic Declination
2	2	2	18.0



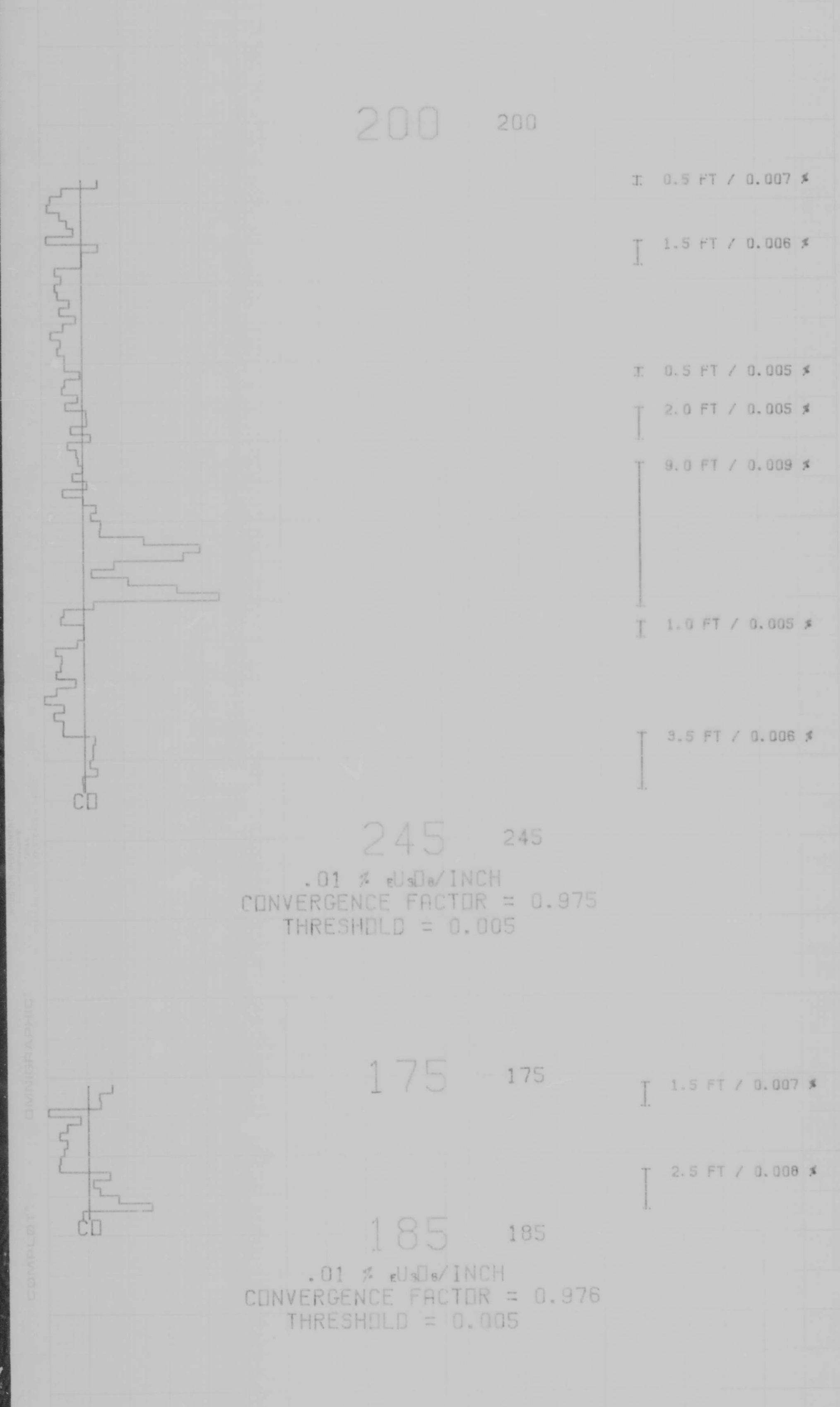
COMPU-LOG V3L7 PLOT 02-14-81

MCDERMITT #9, MAIN
BFEC

MCDERMITT CALDERA
HOLE DIAMETER : 03.8

CAL STD CPS = 0161 CAL RUN CPS = 0157
PROBE # 9055A -230 PROBE CAL BIAS = +00000

TRUCK # 1912 DATA: V3L1
APPL.#5 B
DP/MS



COMPU-LOG V3L7 PLOT 02-14-81

MCDERMITT #9, REPEAT
BFEC

MCDERMITT CALDERA
HOLE DIAMETER : 03.8

CAL STD CPS = 0161 CAL RUN CPS = 0157
PROBE # 9055A -230 PROBE CAL BIAS = +00000

TRUCK # 1912 DATA: V3L1
APPL.#5 B
DP/MS

ORE GRADE CALCULATION
COMPULOG V3L3 ORE GRADE
DEPTH SCALE = 5 FEET/INCH

275 275 2.0 FT / 0.007 %
280 280
.01 % ΔD/D/INCH
CONVERGENCE FACTOR = 0.977
THRESHOLD = 0.005

200 200 0.5 FT / 0.007 %
1.5 FT / 0.006 %
0.5 FT / 0.005 %
2.0 FT / 0.005 %
9.0 FT / 0.009 %
1.0 FT / 0.005 %
3.5 FT / 0.006 %
245 245
.01 % ΔD/D/INCH
CONVERGENCE FACTOR = 0.975
THRESHOLD = 0.005

175 175 1.5 FT / 0.007 %
2.5 FT / 0.008 %
185 185
.01 % ΔD/D/INCH
CONVERGENCE FACTOR = 0.976
THRESHOLD = 0.005

VERTICAL DEVIATION
COMPULOG V3L1 DEVIATION
HOLE ID: MCDERMITT #9, MAIN

SCALE: 1 FT/IN Δ = 25 FOOT INCR
MAG DECL: 18.0 Δ = TOP OF ZONE
TRUE DEPTH: 532. FT ○ = BOTTOM OF ZONE
AZIMUTH: 331. TRUE NORTH ↑
DISTANCE: 6.1 FT

COMPANY Bendix		EQUIPMENT DATA Model No. 251A-5		Pulse Rate 2 1/8"	
HOLE McDermitt #9 CLAIM WJ		NUCLEAR			
PROPERTY Locke-Jacobs		Run No.	4		
AREA McDermitt		Depth	Nil		
COUNTY Malheur		Apparent Log	3 x 12"		
LOCATION		Section Type	NA		
		Surface Material	NA		
		Subsurface Material	NA		
		Log Scale	5 x 2.26		
		Core Length	NA		
SEC. 25	TWP. 40S	RCR. 40E			
Particulars - surface Ground Level 5724' Elev		Core Length	NA		
Lvs. - surface From Drill Floor 1 Ft above Perm. Datum		Log. Kx1al	XXXXX	K	U
Dir. log Measured From GL 5724' Elev		Log. Kx2al	XXXXX	228	1.628
		Log. Kx3al	XXXXX		7.609
		Log. Kx4al	XXXXX		
		Log. Kx5al	XXXXX		
		Log. Kx6al	XXXXX		
		Log. Kx7al	XXXXX		
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		Log. Kx9al	XXXXX		
		Log. Kx0al	XXXXX		
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		Log. Kx0al	XXXXX	</	

Bendix Field Engineering Corporation Grand Junction, Colorado P.O. Box 15889 Grand Junction, CO 81502		Gross Gamma, Resistance, Neutron, Temp., Vertical Deviation, Ore Grade Calculation		Date: 2-7-81 Truck No: 1912 Operator: Stanton/Pickering	
COMPANY Bendix HOLE MD-10 CLAIM: Locke-Jacobs PROPERTY Adel Quad AREA McDermitt Caldera COUNTY Malheur STATE OR LOCATION			EQUIPMENT DATA Probe Ser. No. 9055A-230 Probe Dia. 1 7/8" NUCLEAR Run No. 1 1 Log Type Gamma Neutron Detector NaI He3 Diameter 7/8" x 4" 1" x 6" Shielding Type NA AmBe Source Strength NA 1 Ci Source Spacing NA 18" Amp Gain NA NA Elec. Level NA NA E. Factor Digital -6 Analog 5.52 x 10 ⁻⁶ Deadtime Digital - Analog 1.05 μsec Scale Factor 1.02 μsec Log Case 2-4-81 2-4-81 Logging Factor - -		
PERMANENT DATUM Ground Level Elev 5213' LOG MEASURED FROM GL 0 Ft Above Perm Datum DRILLING MEASURED FROM GL Elev 5213'			ELECTRICAL Run No. 1 1 Log Type SP Resistance Normal Spacing - Single Point SP Resistance Mud Pit NA SP Offset -70mV, -90mV 0 Probe Length - -		
CASING RECORD Size (OD-ID) Wgt From To 4.5"/4.0" 0 10'			CALIPER Run No. 1 1 Log Type - Resistance Normal Spacing - Single Point SP Resistance Mud Pit NA SP Offset -70mV, -90mV 0 Probe Length - -		
BOREHOLE RECORD Bit Size From To 6.0" 0 10' 3.762" 10' 455'			OTHER SERVICES KUT, CL, TL Other Services: Bentonite, Driscose, 1200L, Polymers Type Fluid in Hole: Not available pH and Fluid Loss: Not available Corrosivity: 50 Fluid Level: 206 Loss per 100 ft: none Run @ Miss Temp: Not available Run @ Meas Temp: Not available Run @ Mud Temp: Not available BH: 990F		
REMARKS All ground was frozen, SP mud fish was pushed under ice in the mud pit. Driller's reported lost circulation in most areas of the hole.			TIME RECORD Rig Standby Start 10:00 End 11:45 Total 1.75 hrs. 0		

Run No.	Log Type	Depth From	Depth To	Footage Logged	Speed Ft./Min	Temp Scale	Sens Units/Div	Pen Zero Div L	Drift Rate (mV)	Remarks	
169	1	Gamma	450	4	446	60	20'/in	150 cps	0	.5'	
	"	SP	455	206	249	"	"	15 mV	1	"	Main Log Bias -70 mV
	"	Resist.	455	206	249	"	"	100 ohms	5	"	
	"	Neutron	455	204	251	"	"	600 cps	8	"	Scale Change
	"	V. Dev.	204	9	195	"	"	800 cps	8	"	
	"	Temp.	456	0	456	"	"	2'/in	-	25'	
	"	Temp.	455	14	441	"	"	-	-	.5'	
169	2	Gamma	354	245	109	"	20'/in	150 cps	0	"	Repeat Section
	"	SP	359	250	109	"	"	15 mV	1	"	
	"	Resist.	359	250	109	"	"	100 ohms	5	"	
	"	Neutron	359	250	109	"	"	600 cps	8	"	

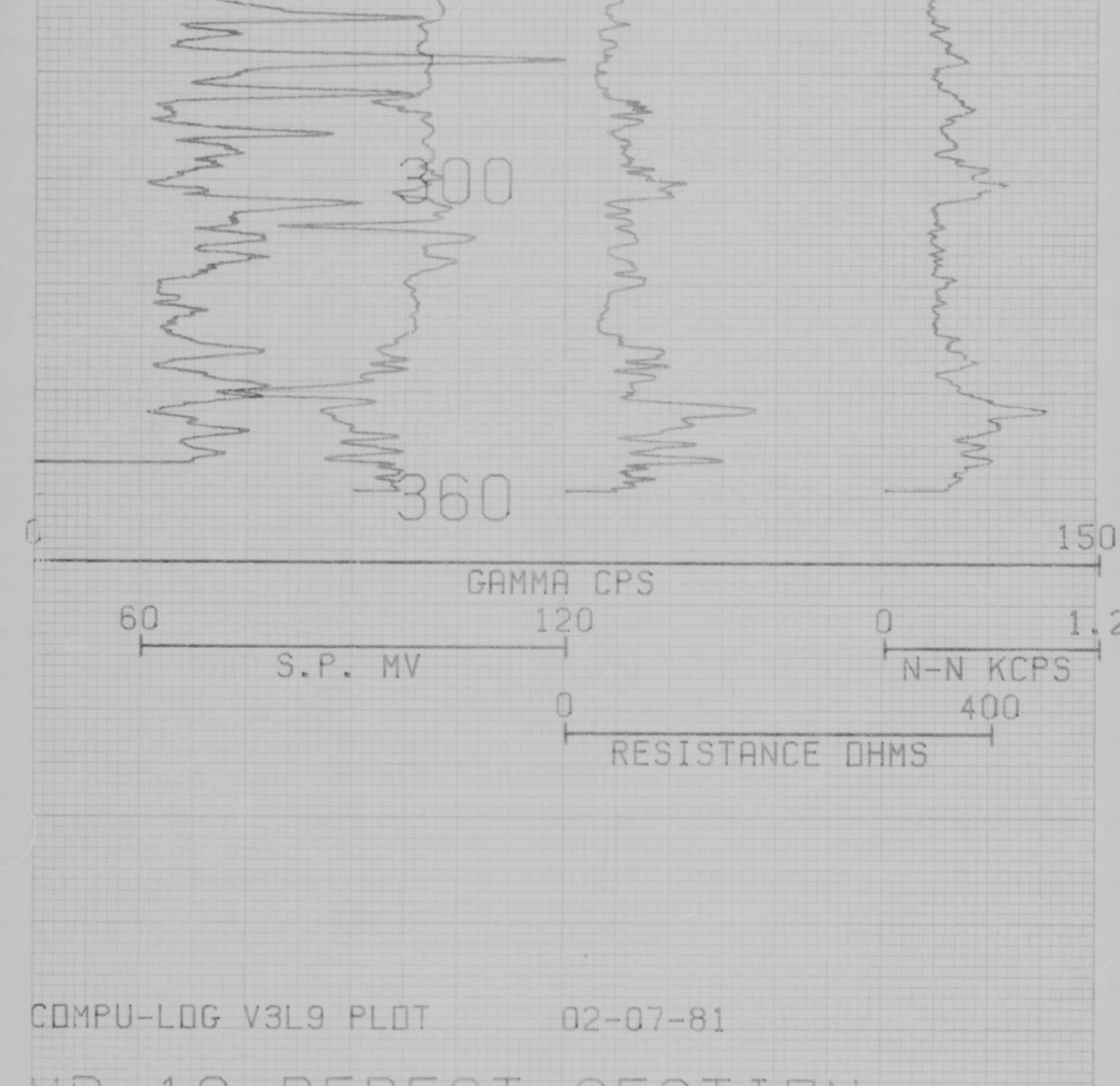
Total Footage Logged: 2723'



CO.PU-LDG V3L9 PLOT 02-07-81

MD-10
BFEC
MCDERMITT CALDERA
HOLE DIAMETER : 03.9

CAL STD CPS = 0161 CAL RUN CPS = 0157
 PROBE # 9055A -230 PROBE CAL BIAS = +00000
 TRUCK # 1912 DATA: V3L10
 APPL.#5 E
 DP/MS

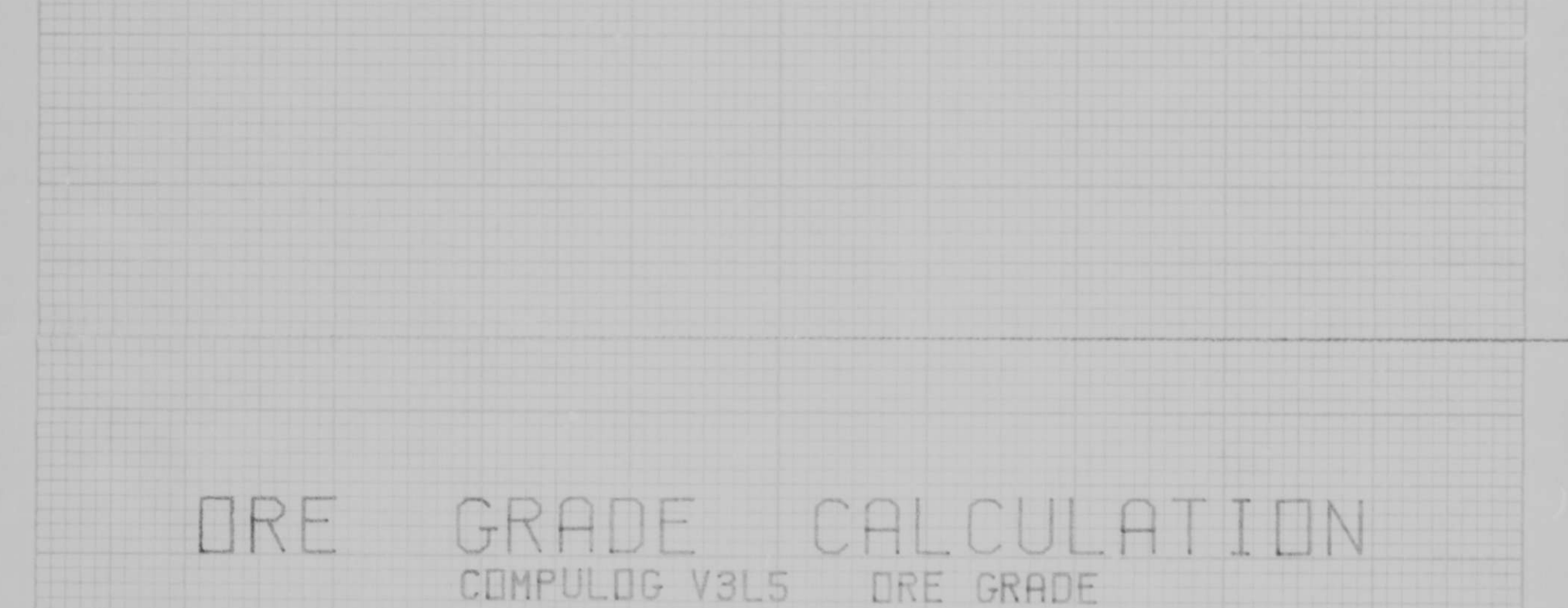


COMPU-LDG V3L9 PLOT 02-07-81

MD-10 REPEAT SECTION
BFEC
MCDERMITT CALDERA
HOLE DIAMETER : 03.9

CAL STD CPS = 0161 CAL RUN CPS = 0157
 PROBE # 9055A -230 PROBE CAL BIAS = +00000
 TRUCK # 1912 DATA: V3L10
 APPL.#5 E
 DP/MS

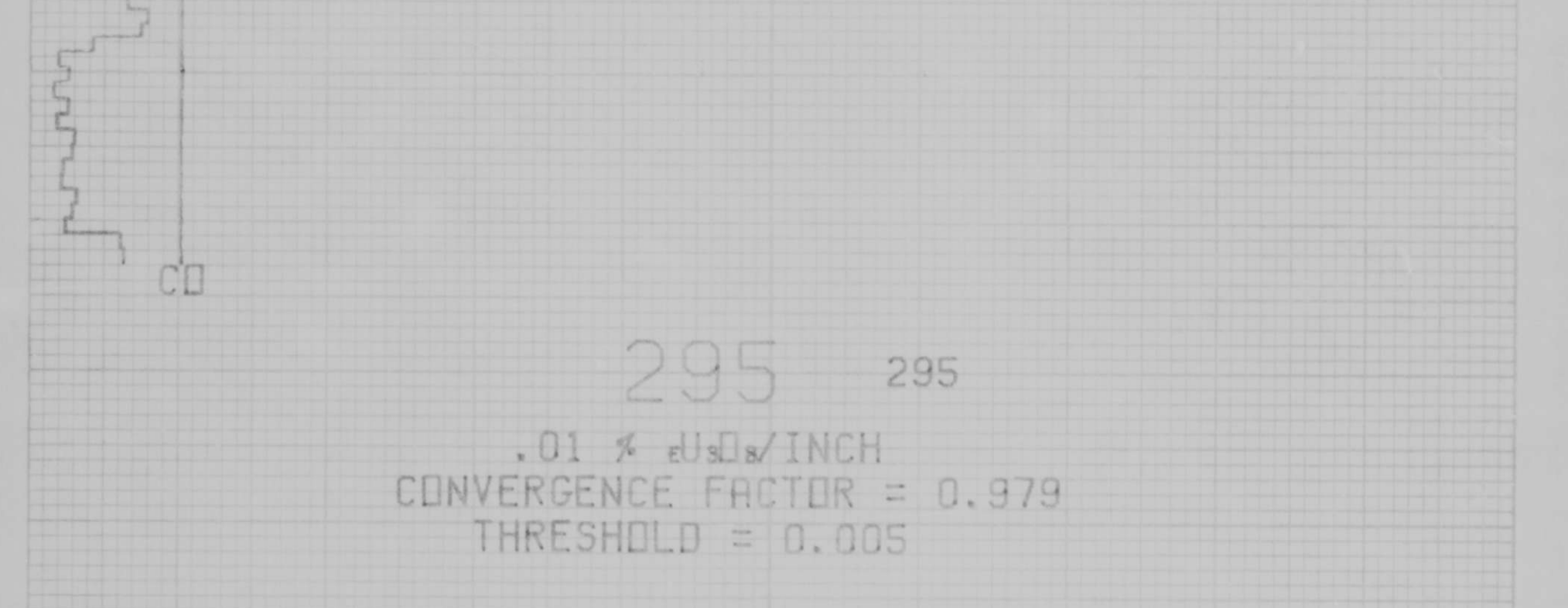
ORE GRADE CALCULATION
 COMPULDG V3L5 ORE GRADE
 DEPTH SCALE = 5 FEET/INCH
 255 255



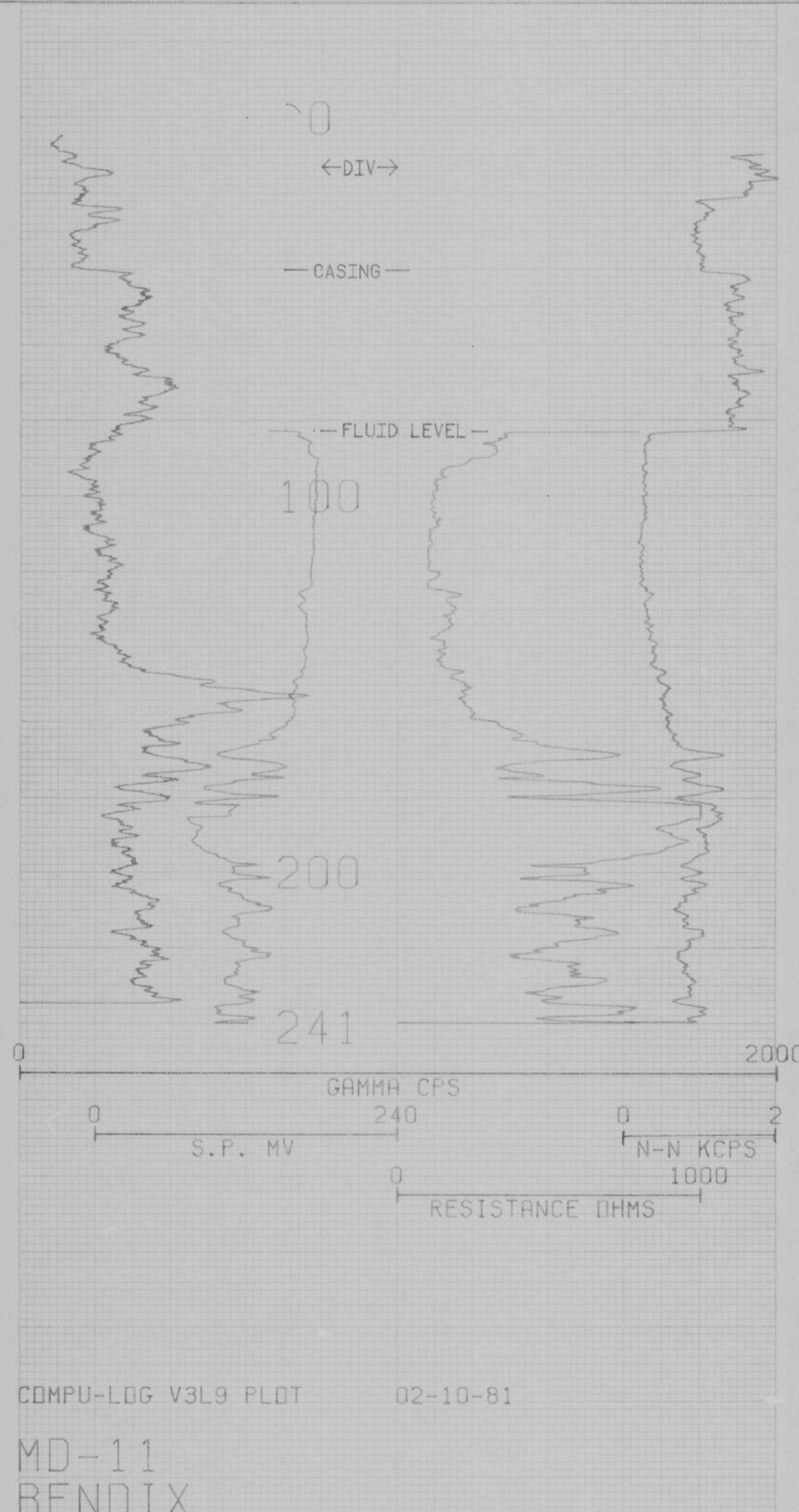
295 295
 .01 x μS/INCH
 CONVERGENCE FACTOR = 0.979
 THRESHOLD = 0.005

VERTICAL DEVIATION
 COMPULDG V3L1 DEVIATION
 HOLE ID: MD-10

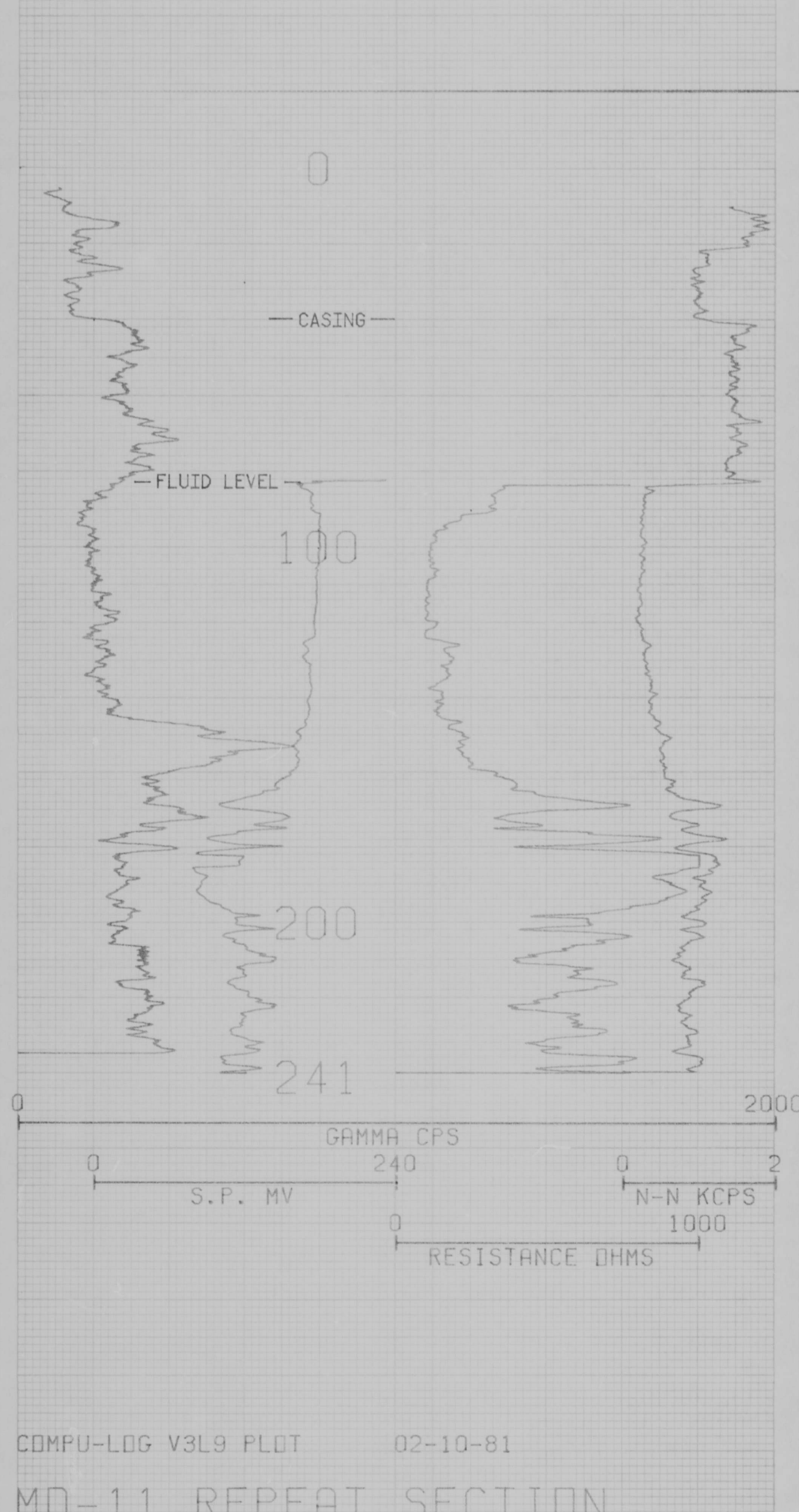
SCALE: 2 FT/IN + = 25 FOOT INCR
 MAG DECL: 18.0 Δ = TOP OF ZONE
 TRUE DEPTH: 456. FT Δ = BOTTOM OF ZONE
 AZIMUTH: 358.
 DISTANCE: 8.3 FT TRUE NORT: ↑



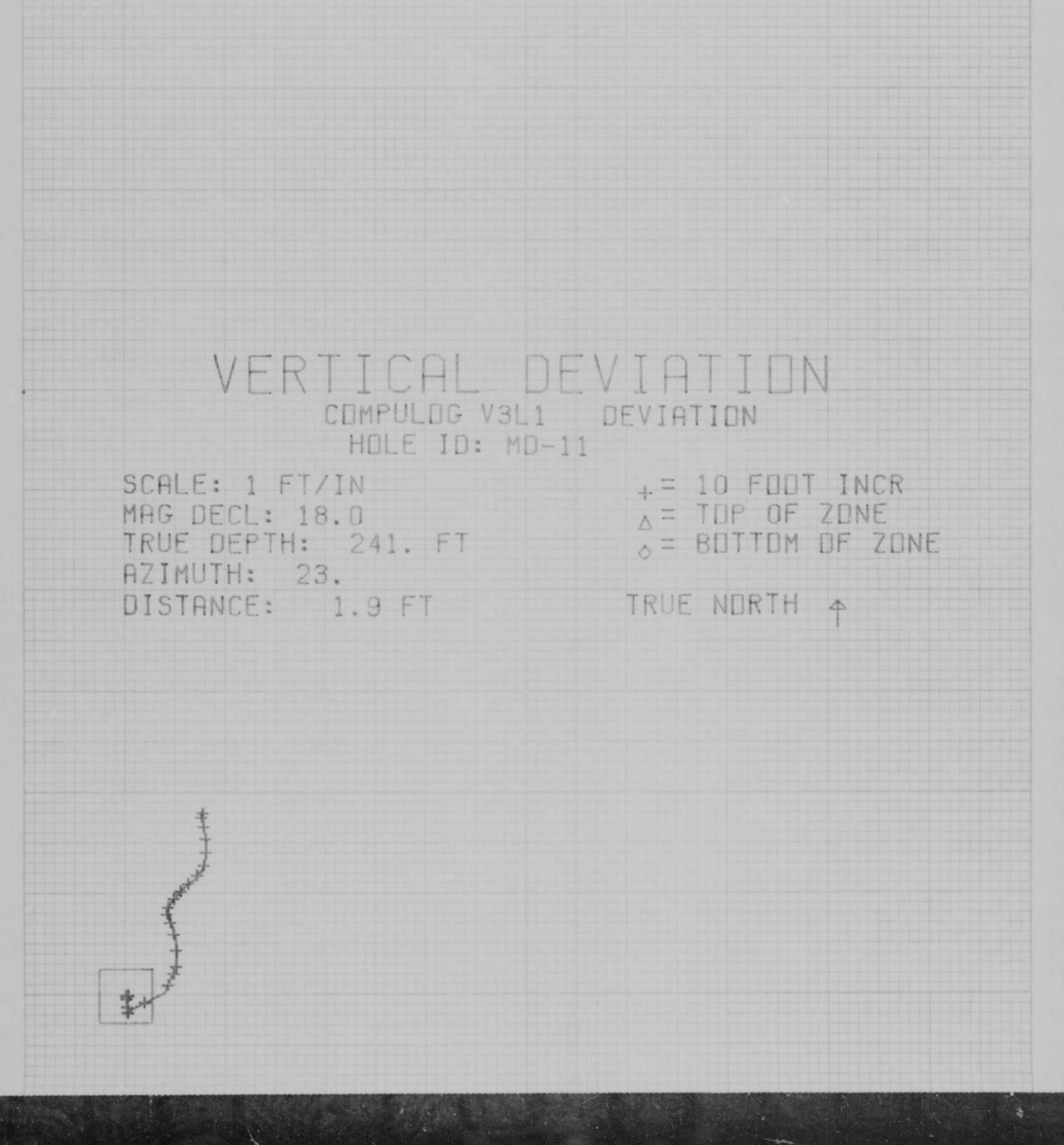
Bendix Field Engineering Corporation Grand Junction Operations P.O. Box 1568 Grand Junction, CO 81502		Gross Gamma, ρ , Resistance, Neutron-Neutron, Vertical Deviation, Temperature		Date 2-1-81 Truck No. 1912 Operator Stanton/Pickering							
COMPANY Bendix HOLE MD-11 CLAIM Locke Jacobs PROPERTY Adel Quad AREA McDermitt Caldera COUNTY Malheur STATE OR		EQUIPMENT DATA Probe Ser No. 9055A-230 Probe Diam. 1 7/8"									
LOCATION SEC 3 TWP 41S RGE 40 Permanent Datum Ground Level Elev. 5235' Log Measured From GL 0' Ft Above Perm. Datum Drilling Measured From GL Elev. 5235'		NUCLEAR Run No. 1 Log Type Gamma Neutron Detector NaI He ³ Detector Size 7/8" x 4" 1" x 6" Source Type NA AmBe NaI Str. Strength NA 1 Ci He ³ Str. Strength NA 14" Ass. Gens. NA NA Elec. Leads NA NA A Factor Digital 5.52 x 10 ⁻⁶ A Factor Analog 5.52 x 10 ⁻⁶ Deadtime Digital 1.05 μ sec Deadtime Analog 1.05 μ sec Gate Coll. 2-4-81 2-4-81 Counting Factor - -									
CASING RECORD Size (OD-ID), Wgt From To 5.0"/4.0" 0 40		ELECTRICAL Run No. 1 Log Type SP Resistance Normal Reading Single Point SP Reference Mud Pit NA SP Offset -120 0 Cable Length - -									
BORFHOLE RECORD Bit Size From To 6.0" 0 40' 3.782" 40' 245'		CALIPER Run No. 1 Log Type SP Normal Reading Single Point SP Reference Mud Pit NA SP Offset -120 0 Cable Length - -									
Depth-Driller 245' Depth Logger 241' Type Fluid in Hole Driscose, Polydrill Salinity ppm Not available pH and Fluid Loss Not available Density lb/gal ~35 lb/gal Fluid Level 83 Source of Sample None Run @ Meas Temp Not available Rnd. @ Meas Temp Not available Rnd. @ Meas Temp Not available BHT 14.6°C		LETTER Run No. 1 Log Type Temperature Vertical Deviation Mag. Decl. = 18.0									
Remarks: Encountered numerous bridges going down, drillers opened the hole. Ore grade calculations done with a 0.01% cut off value, no ore was found.				TIME RECORD Start 15:00 End 17:00 Total 2.0 hrs. 0							
LOGGING DATA											
Cart. Type	Log Type	Depth From	To	Footage Logged	Speed Ft./Min	Depth Scale	Scale Units/Div	Pen Zero Div L	Digital Time (hr)	Remarks	
49	1	Gamma	235	5	230	60	20"/in	200 cps	0	.5'	Main Log
"	"	SP	240	83	157	"	"	60 mV	1	-	Bias = -120 mV
"	"	Resist.	240	93	157	"	"	250 ohms	5	-	"
"	"	Neutron	240	10	230	"	"	1000 cps	8	-	"
"	"	Vert. Dev	241	0	241	"	"	1"/in	-	-	10'
"	"	Temp.	241	10	231	"	"	-	-	-	5'
49	2	Gamma	235	5	230	"	"	200 cps	0	.5'	Repeat Section
"	"	SP	240	83	157	"	"	60 mV	1	-	"
"	"	Resist.	240	83	157	"	"	250 ohms	5	-	"
"	"	Neutron	240	10	230	"	"	1000 cps	8	-	"



COMPU-LOG V3L9 PLOT 02-10-81
 MD-11
 BENDIX
 MCDERMITT CALDERA
 HOLE DIAMETER : 04.5
 CAL STD CPS = 0161 CAL RUN CPS = 0157
 PROBE # 9055A -230 PROBE CAL BIAS = +00000
 TRUCK # 1912 DATA: V3L10
 APPL.#5 E
 MS/DP

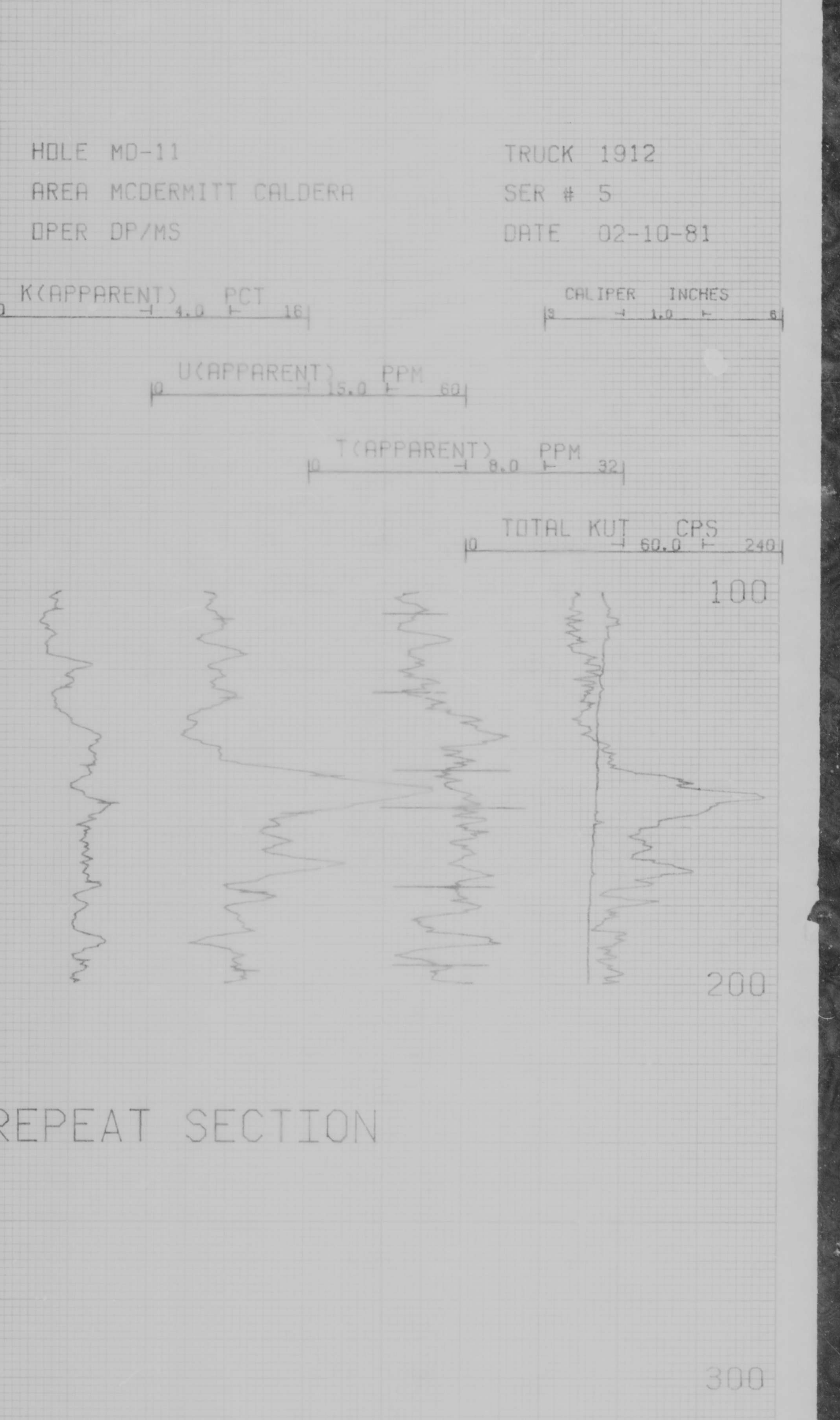
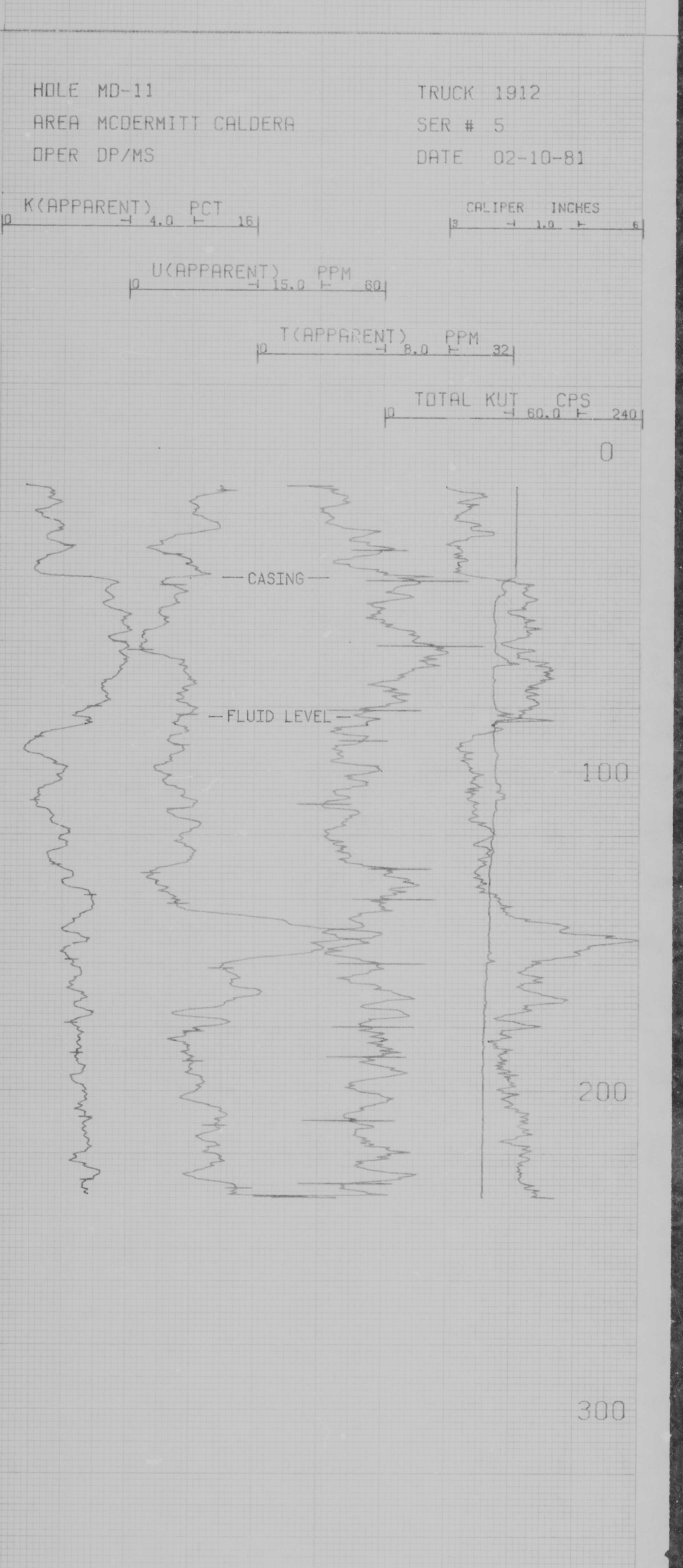
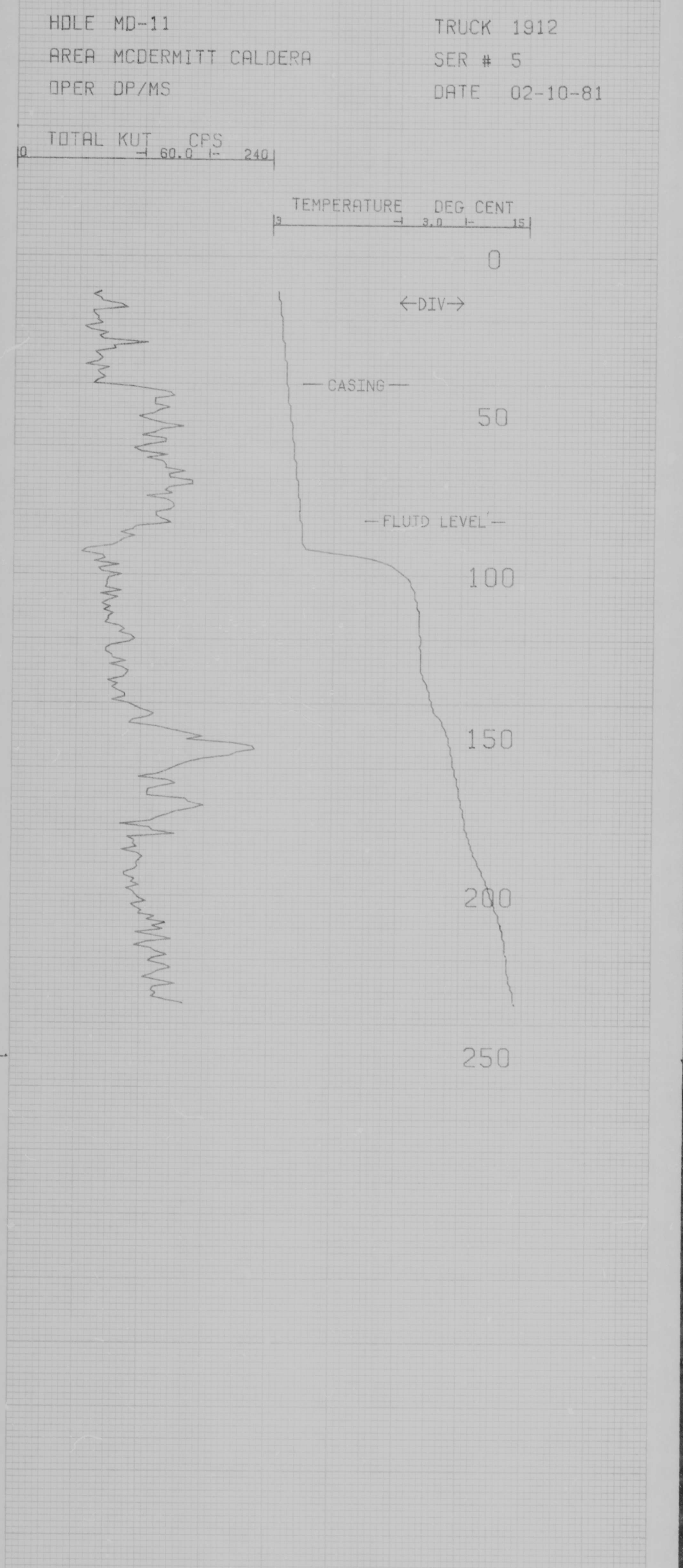


COMPU-LOG V3L9 PLOT 02-10-81
 MD-11 REPEAT SECTION
 BENDIX
 MCDERMITT CALDERA
 HOLE DIAMETER : 04.5
 CAL STD CPS = 0161 CAL RUN CPS = 0157
 PROBE # 9055A -230 PROBE CAL BIAS = +00000
 TRUCK # 1912 DATA: V3L10
 APPL.#5 E
 MS/DP



Dundix Field Engineering Corporation Great Lakes Operations P.O. Box 1568 Grand Haven, MI 49424		KUT, Caliper, Temperature		Date 2-10-81 Truck No. 1912 Operator Stanton/Pickering																																																																																																																																																
COMPANY Bendix HOLE MD-11 CLAIM Locke Jacobs PROPERTY Adel Quad AREA McDermitt Caldera COUNTY Palheur STATE OR LOCATION SEC 3 TWP 41S RGE 4CE Permanent Datum Ground Level Elev. 5235' Log Measured From GL 0 Ft Above Perm Datum Drilling Method From GL Elev. 5235'		EQUIPMENT DATA Probe No. 251A-5 Probe Size 2 1/8" Run No. 1 Log Type KUT Detector NaI Detector Size 13" x 12" Detector Type NA Detector Strength NA 7' Above Spacing NA Amp Gain 8 x 6.3 QMC Level NA R. Scale Digital K Scale Digital U Scale Digital 0.2278 1.6276 7.6103 Diagnostics Digital SP Offset NA SP Other NA Drive Cable 1-22-81 Cooling Fan																																																																																																																																																		
CASING RECORD Size (O.D. x W.T.) From To 5.0" x 4.0" 0 40' BOREHOLE RECORD Bit Size From To 6.0" 0 40' 3.782" 40 245' Jagged Driller 245' Depth Logger 241' Type Fluid in Hole Driscose, Polydrill Salinity ppm Not available pH and Fluid Loss Not available Density @ 60 deg F 83' Fluid Level 83' Pressure at 60 deg F None Rate @ Mass Temp Not available Rate @ Mass Temp Not available Rate @ Mass Temp Not available BIT 14.50C		ELECTRICAL Run No. Log Type Normal Spacing SP Reference SP Offset Spindle Length CALIPER Run No. 1 Drive Type 3 Arm Tool Position Centered Minimum Span 2 1/8" Maximum Span 22" LITREAL Run No. 1 Log Type Temperature																																																																																																																																																		
Remarks: Fluid level determined from electric logs pulled with the 3055 tool.				TIME RECORD Rig Start 17:00 Standb. End 21:00 Total 4.0 hr. 0																																																																																																																																																
LOGGING DATA <table border="1"> <thead> <tr> <th>Cart. Type</th> <th>Log Type</th> <th>Depth From</th> <th>Depth To</th> <th>Footage Logged</th> <th>Speed Ft./Min</th> <th>Depth Scale</th> <th>Scale Units Div</th> <th>Pen. Zero Div. L</th> <th>Digital Time</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>49</td> <td>Tot. KUT Temp</td> <td>234</td> <td>12</td> <td>222</td> <td>30</td> <td>20"/in</td> <td>60 cps</td> <td>0</td> <td>-</td> <td>1.0"</td> <td>Main Log - Down Phase 1</td> </tr> <tr> <td>3</td> <td>K</td> <td>234</td> <td>11</td> <td>223</td> <td>5</td> <td>"</td> <td>4 PCT</td> <td>4</td> <td>-</td> <td>.5"</td> <td>Main Log - Up Phase 2</td> </tr> <tr> <td>"</td> <td>U</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>15 ppm</td> <td>2</td> <td>-</td> <td>"</td> <td>"</td> </tr> <tr> <td>"</td> <td>T</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>8 ppm</td> <td>4</td> <td>-</td> <td>"</td> <td>"</td> </tr> <tr> <td>"</td> <td>Tot. KUT</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>60 cps</td> <td>6</td> <td>-</td> <td>"</td> <td>"</td> </tr> <tr> <td>"</td> <td>Caliper</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>1 inch</td> <td>7</td> <td>-</td> <td>"</td> <td>"</td> </tr> <tr> <td>3</td> <td>K</td> <td>200</td> <td>100</td> <td>100</td> <td>"</td> <td>"</td> <td>4 PCT</td> <td>0</td> <td>-</td> <td>"</td> <td>Repeat Section Up</td> </tr> <tr> <td>"</td> <td>U</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>15 ppm</td> <td>2</td> <td>-</td> <td>"</td> <td>"</td> </tr> <tr> <td>"</td> <td>T</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>8 ppm</td> <td>4</td> <td>-</td> <td>"</td> <td>"</td> </tr> <tr> <td>"</td> <td>Tot. KUT</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>60 cps</td> <td>6</td> <td>-</td> <td>"</td> <td>"</td> </tr> <tr> <td>"</td> <td>Caliper</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>1 inch</td> <td>7</td> <td>-</td> <td>"</td> <td>"</td> </tr> </tbody> </table> Total Footage Logged 868'						Cart. Type	Log Type	Depth From	Depth To	Footage Logged	Speed Ft./Min	Depth Scale	Scale Units Div	Pen. Zero Div. L	Digital Time	Remarks	49	Tot. KUT Temp	234	12	222	30	20"/in	60 cps	0	-	1.0"	Main Log - Down Phase 1	3	K	234	11	223	5	"	4 PCT	4	-	.5"	Main Log - Up Phase 2	"	U	"	"	"	"	"	15 ppm	2	-	"	"	"	T	"	"	"	"	"	8 ppm	4	-	"	"	"	Tot. KUT	"	"	"	"	"	60 cps	6	-	"	"	"	Caliper	"	"	"	"	"	1 inch	7	-	"	"	3	K	200	100	100	"	"	4 PCT	0	-	"	Repeat Section Up	"	U	"	"	"	"	"	15 ppm	2	-	"	"	"	T	"	"	"	"	"	8 ppm	4	-	"	"	"	Tot. KUT	"	"	"	"	"	60 cps	6	-	"	"	"	Caliper	"	"	"	"	"	1 inch	7	-	"	"
Cart. Type	Log Type	Depth From	Depth To	Footage Logged	Speed Ft./Min	Depth Scale	Scale Units Div	Pen. Zero Div. L	Digital Time	Remarks																																																																																																																																										
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Dundix Field Engineering Corporation, 15000 Grand Haven Road, Grand Haven, Michigan 49424. This log was prepared by the use of a computer program. The accuracy of the data is dependent on the accuracy of the input data. The accuracy of the data is dependent on the accuracy of the input data. The accuracy of the data is dependent on the accuracy of the input data.



PROPERTY: Alex Quist
 AREA: McDermitt Caldera
 COUNTY: Malheur STATE: OR

LOCATION: SE 1/4
 DEC: 30 TWP: 40S RGE: 41E

Permanent Datum: Ground Level Elev: 5663'
 Log Measured From: CL 0 ft. Above Perm. Datum
 Drilling Measured From: GL Elev: 5663'

CASING RECORD

Start (OD/ID) Wgt	From	To
4.5"/4.0"	0	42'
3.3"/3.0"	0	300'

BOREHOLE RECORD

Bit Size	From	To
6.0"	0	42'
3.5"	42'	300'
3.03"	300'	914'

Depth-Driller: 914'
 Depth-Logger: 918'
 Type Fluid in Hole: Polymer & Driscose
 Salinity ppm: Not available
 pH and Fluid Loss: Not available
 Density (lb/gal): Not available
 Fluid Level: 162'
 Source of Sample: None
 Rm @ Meas. Temp: Not available
 Ref @ Meas. Temp: Not available
 Rnc @ Meas. Temp: Not available
 BHT: 730F

ELECTRICAL

Run No.	Log Type	Resistance
1	SP	Single Point
NA	Normal Spacing	-
Ground	SP Offset	-
-80	SP Offset	0
-	SP Offset	-

LOGGING DATA

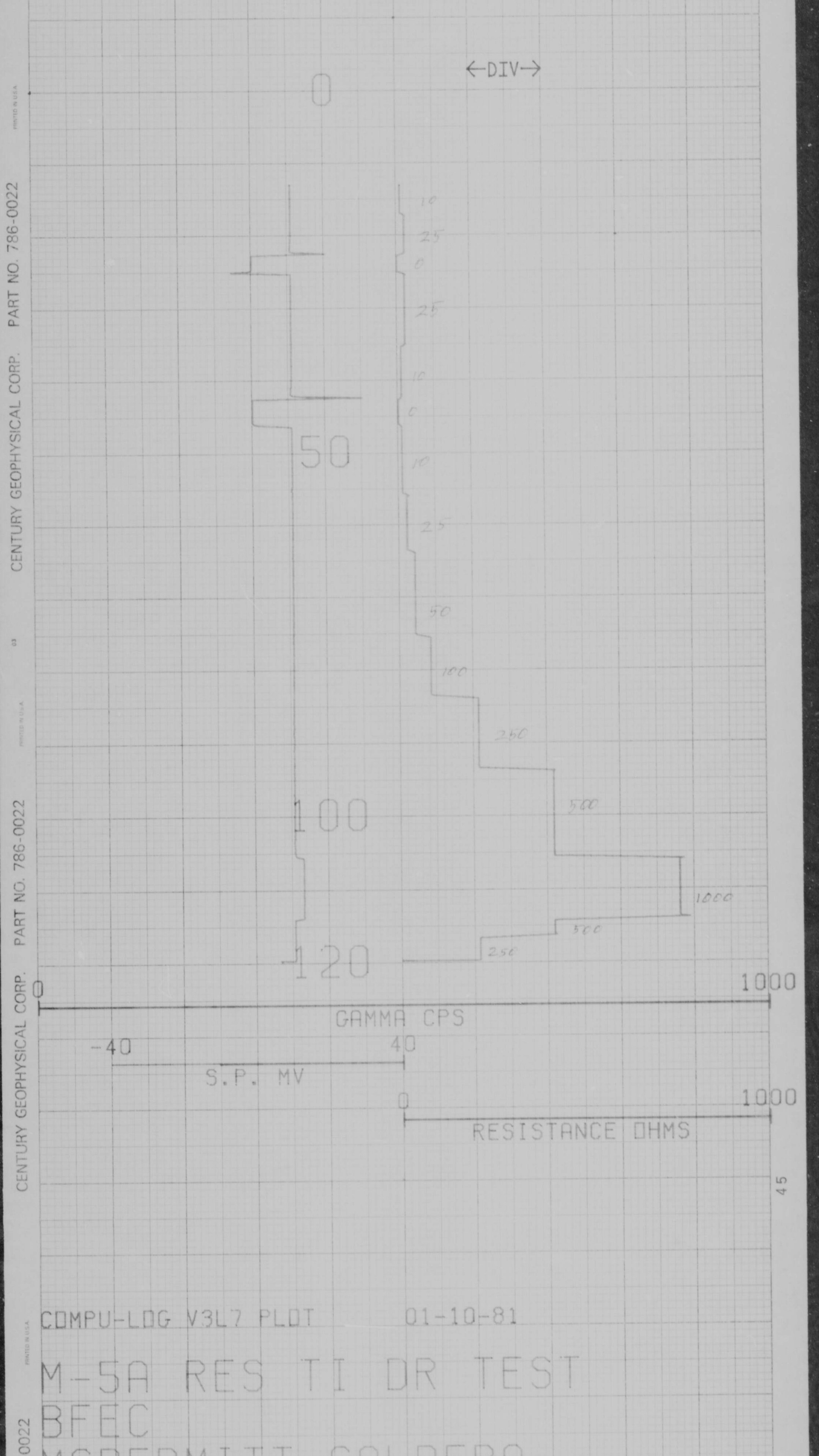
Cart. Type	Log Type	Depth From	Depth To	Footage Logged	Speed Ft./Min	Depth Scale	Sens. Units/Div	Pen Zero Div L	Digital	Remarks
179	1	SP	NA	NA	30	10'/in	20 mV	1	-	Time Drive Test
		Resist.	NA	NA	30	"	200 Ω	5	-	
179	3	Gamma	911	804	107	20'/in	150 cps	0	-	.5' Repeat Section
		SP	916	809	"	"	40 mV	1	-	
		Resist.	"	"	"	"	300 ohms	5	-	
		Neutron	"	"	"	"	900 cps	8	-	
179	2	Gamma	912	10	902	20'/in	150 cps	0	-	.5' Main Log
		SP	917	300	617	"	40 mV	1	-	
		Resist.	"	"	"	"	300 ohms	5	-	
		Neutron	"	15	902	"	900 cps	8	-	
179	2	SP	800	500	-	20'/in	40 mV	1	-	.5' Replot Res. on highest scale.
		Resist.	"	"	-	"	900 ohms	5	-	
		Gamma	"	"	-	"	150 cps	0	-	
		Neutron	"	"	-	"	900 cps	8	-	

Total Footage Logged: 3466'

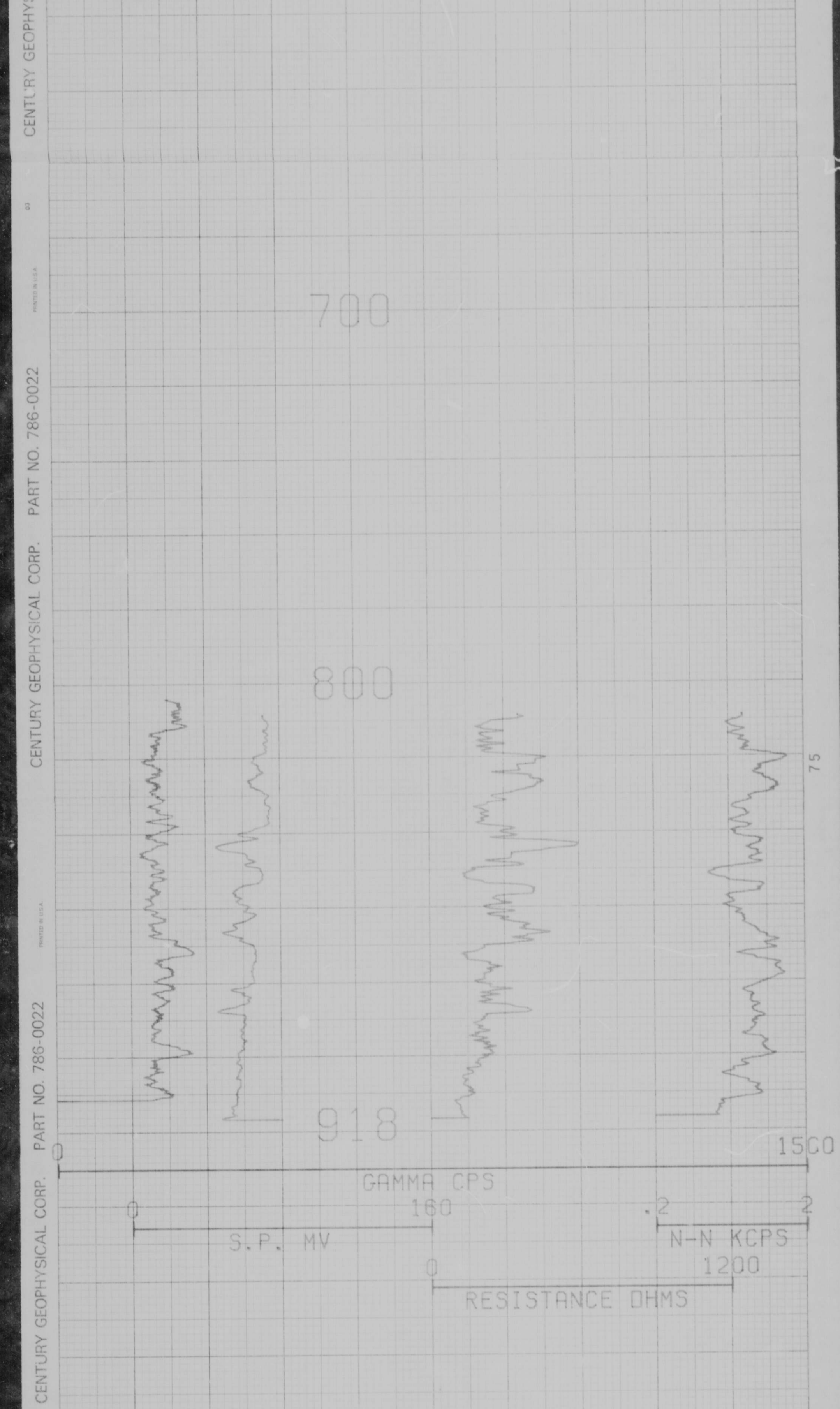
Remarks: Resistance system was tested with time drive and the calibration box, the system was operating normally. Fluid level was determined from a neutron log pulled later the same day with no casing.

TIME RECORD

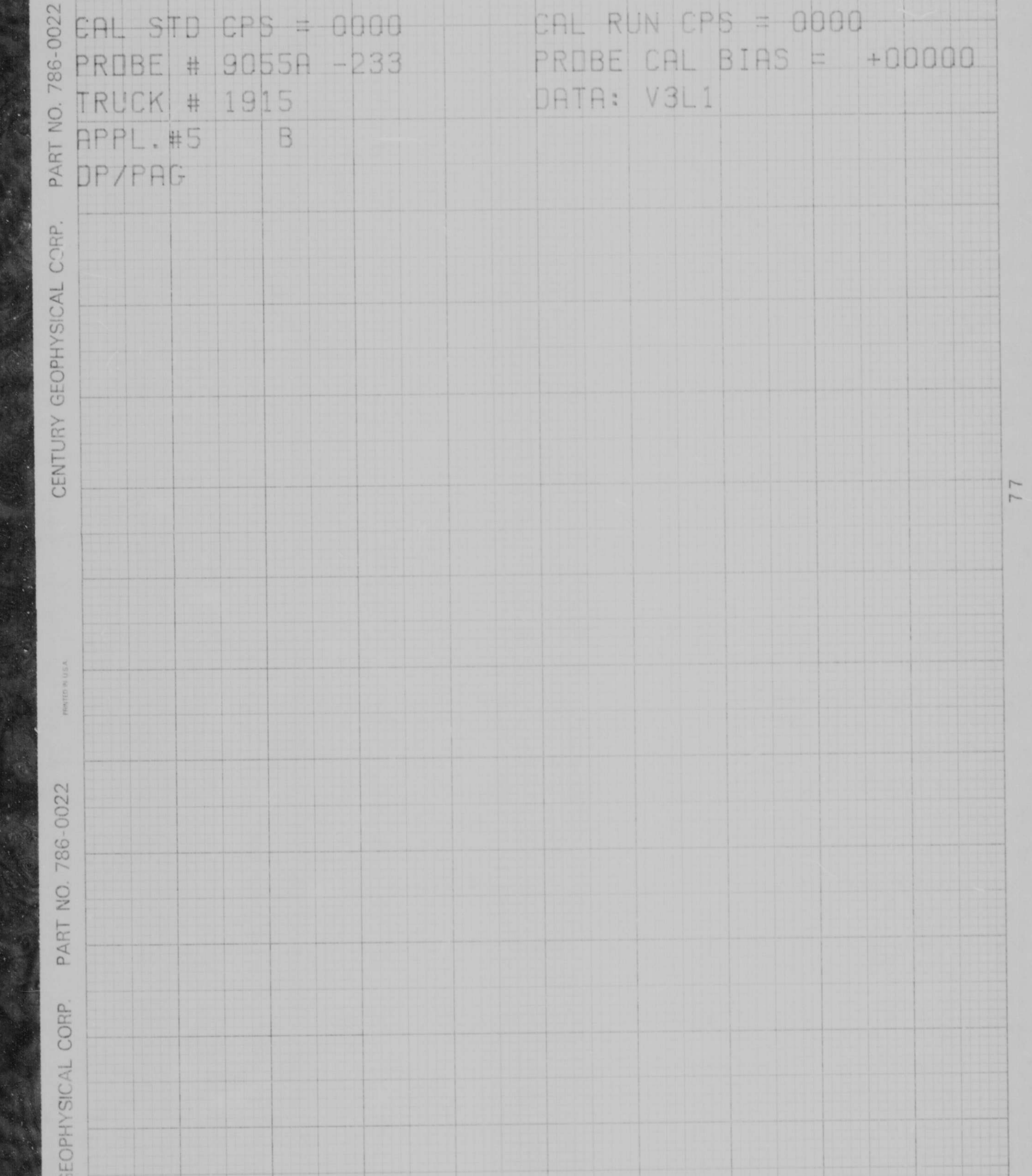
Run	Standby
18:20	16:30
20:30	18:20
Total	2.2 hr., 1.9 hr.



COMPU-LOG V3L7 PLOT 01-10-81
 M-5A RES TI DR TEST
 BFEC
 MCDERMITT CALDERA
 HOLE DIAMETER : 03.0
 CAL STD CPS = 0000 CAL RUN CPS = 0000
 PROBE # 9055 -233 PROBE CAL BIAS = +00000
 TRUCK # 1915 DATA: V3L8
 APPL.#3 B
 DP/PAG

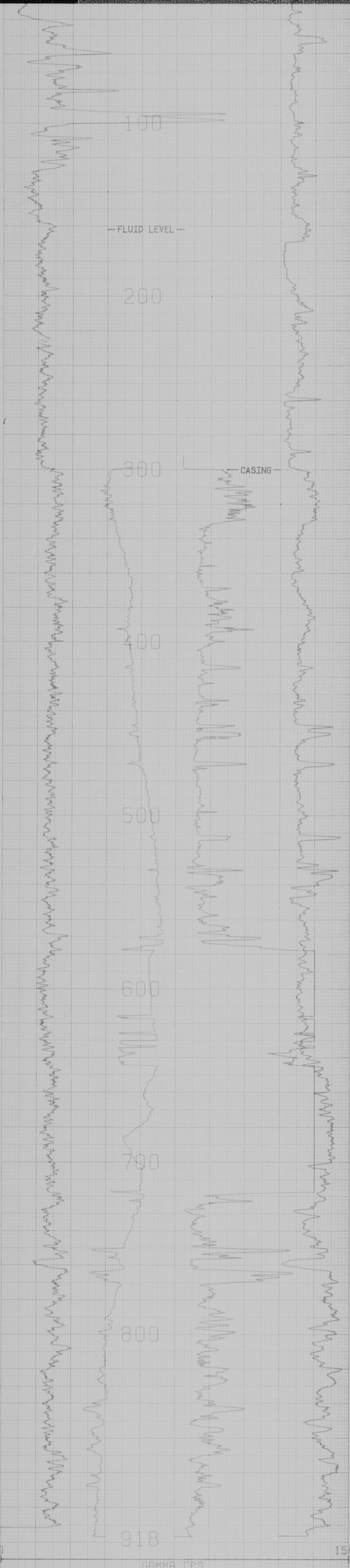


COMPU-LOG V3L7 PLOT 01-10-81
 MD-5A REPEAT
 BFEC
 MCDERMITT CALDERA
 HOLE DIAMETER : 03.0
 CAL STD CPS = 0000 CAL RUN CPS = 0000
 PROBE # 9055A -233 PROBE CAL BIAS = +00000
 TRUCK # 1915 DATA: V3L1
 APPL.#5 B
 DP/PAG



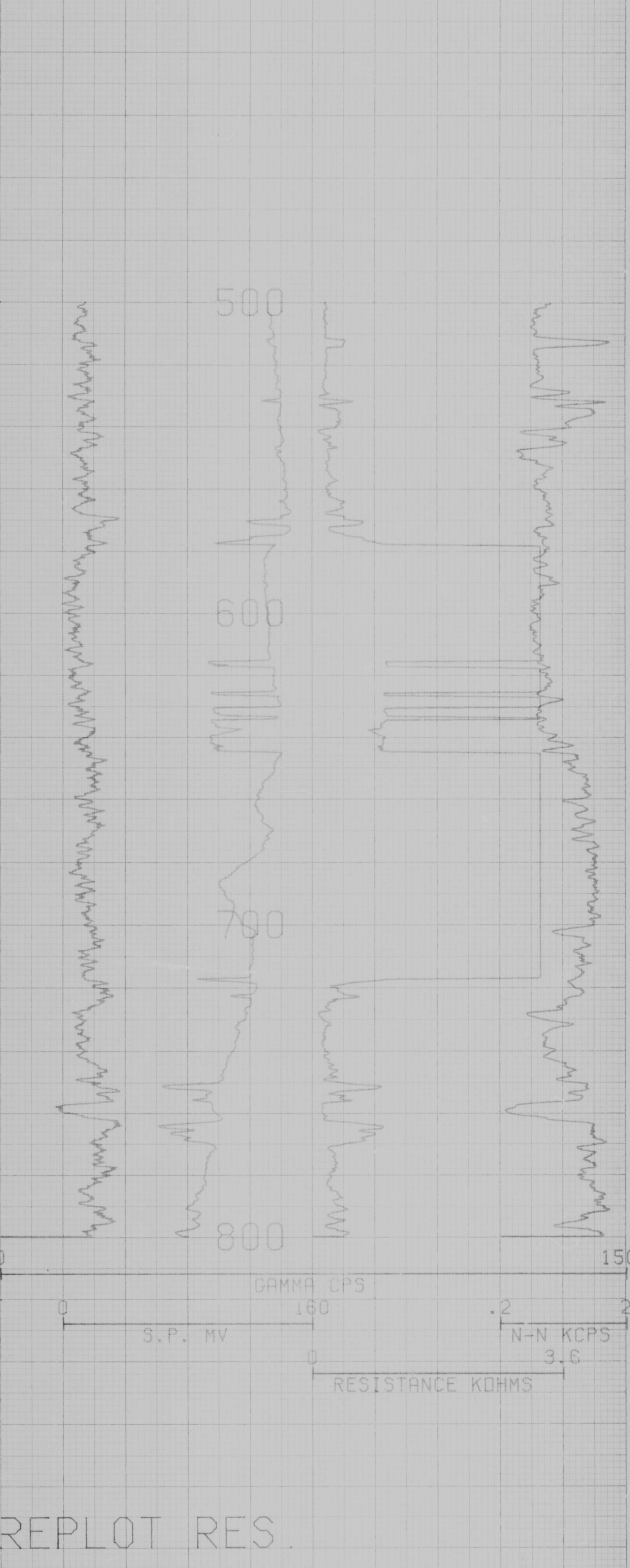
COMPU-LOG V3L7 PLOT 01-10-81
 M-5A RES TI DR TEST
 BFEC
 MCDERMITT CALDERA
 HOLE DIAMETER : 03.0
 CAL STD CPS = 0000 CAL RUN CPS = 0000
 PROBE # 9055A -233 PROBE CAL BIAS = +00000
 TRUCK # 1915 DATA: V3L1
 APPL.#5 B
 DP/PAG

CENTURY GEOPHYSICAL CORP. PART NO. 786-0022



COMPU-LOG V3L7 PLOT 01-10-81
 MD-5A RUN 1
 BFEC
 MCDERMITT CALDERA
 HOLE DIAMETER : 03.0

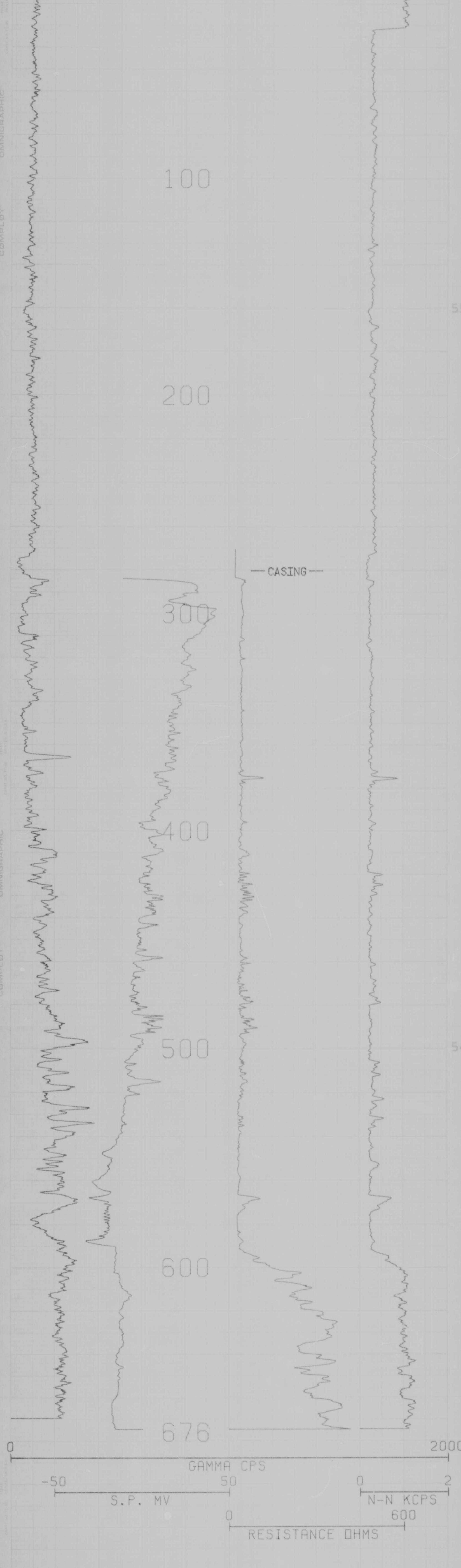
CAL STD CPS = 0000 CAL RUN CPS = 0000
 PROBE # 9055A -233 PROBE CAL BIAS = +00000
 TRUCK # 1915 DATA: V3L1
 APPL.#5 B
 DP/PAG



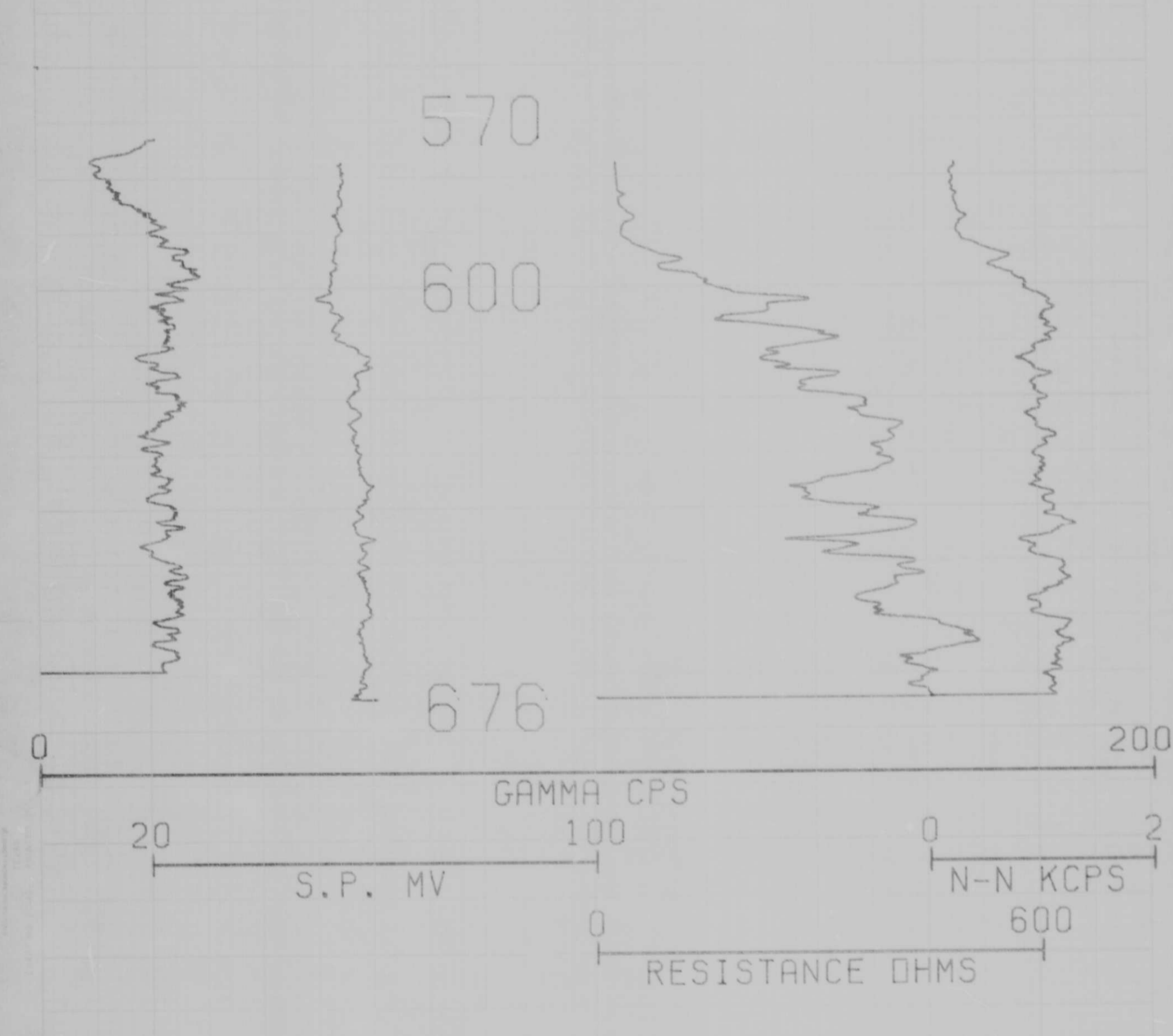
REPLOT RES.

HOLE McDermitt #4		CLAY Placer Area		NUCLEAR								
PROPERTY	BLM	Run No.	2	2								
AREA	McDermitt	Log Type	Gamma	Neut, on-Neutron								
COUNTY	Humboldt	State	NV	Bed								
LOCATION		Detector Size	7/8" x 4"	1" x 6"								
SEC	11	TWP	47N	RCF	37E							
Permanent Datum	Ground Level	Elev.	4469'									
Log Measured From	GL	0. Ft Above Perm. Datum										
Drilling Measured From	GL	Elev.	4469'									
CASING RECORD												
Size (OD) (In.)	From	To										
4.5" / 4.00"	0	281'										
BOREHOLE RECORD												
Bit Size	From	To										
6"	0	281'										
3.75" (HO)	281	676'										
ELECTRICAL												
Run No.	2	SP Resistance										
Log Type	SP	Normal Reading	NA	Single Point								
SP Reference	gRound	SP Offset	0	0								
SP Offset	0	0										
Probe Length												
CALIBER												
Depth-Logger	676	Run No.	2									
Depth-Logger	675	Device Type	1000									
Type Fluid in Hole	Water-Polydrill-Briscone	1000										
Salinity (ppt)	Not Available	1000										
API and Fluid Loss	Not Available	1000										
Resistivity (log)	Not Available	1000										
Fluid Level	32'	1000										
Source of Sample	Neu pits	1000										
Run @ Meas Temp	9.7 f-m	1000										
Ref @ Meas Temp	8.0 f-m	1000										
RMC @ Meas Temp	No Mud Cake	1000										
BHT	20.6°C	1000										
Remarks: Run number one was not used due to faulty SP log. Total rig time include:												
Line of first run.												
Hole was cored from 281' to T.D. There was no mud cake.												
Temperature sensor was not operating.												
TIME RECORD												
Run	1800	Standby	11:30									
Run	1840	Standby	13:00									
Total	1.5 hrs		1.5 hr									
LOGGING DATA												
Cor. No.	Tool	Log Type	Depth From	Depth To	Footage Logged	Speed Ft/Min	Drift Scale	Sens Units Div	Pen Zero Div L	Digit	Unit	Remarks
576	4	Gamma	670	5	666	60	20'/div	200 cps	0	.5'		Main Log
4	N-N		675	9	666	"	"	1000 cps	8	"	"	"
4	SP		675	284	391	"	"	2' mV	1	"	"	"
4	Resistance		675	284	391	"	"	150 Ω	5	"	"	"
4	D.S.		676	0	676	"	"	2'/in	-	25'	"	"
576	1	Gamma	669	573	96	60	20'/div	200 cps	0	.5'		Repeat Section
1	N-N		674	578	96	"	"	1000 cps	8	"	"	"
1	SP		674	578	96	"	"	20 mV	1	"	"	"
1	Resistance		674	578	96	"	"	150 Ω	5	"	"	"
Total Footage Logged: 3174'												

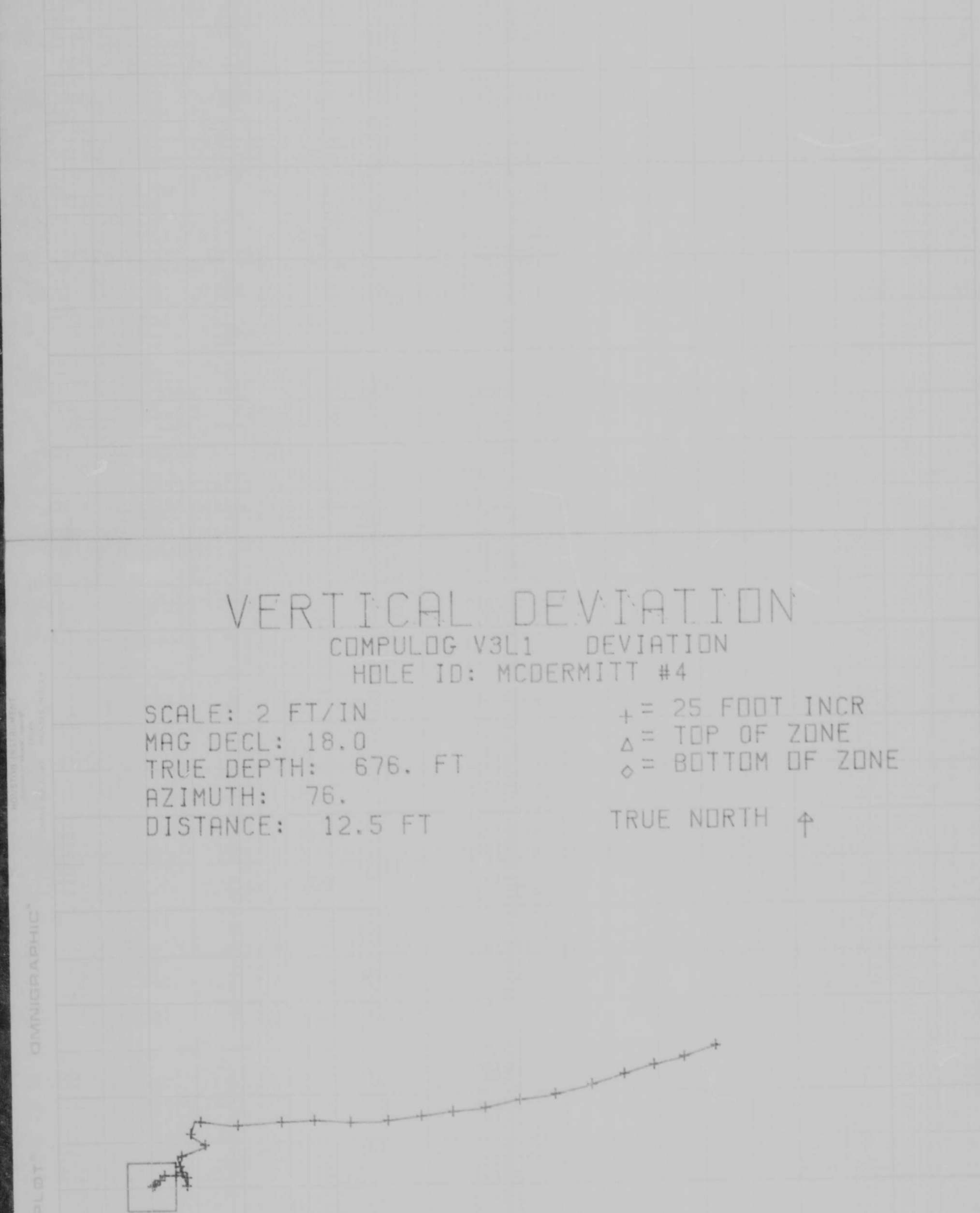
Depth-Logger	676	Run No.	2
Depth-Logger	675	Device Type	1000
Type Fluid in Hole	Water-Polydrill-Briscone	1000	
Salinity (ppt)	Not Available	1000	
API and Fluid Loss	Not Available	1000	
Resistivity (log)	Not Available	1000	
Fluid Level	32'	1000	
Source of Sample	Neu pits	1000	
Run @ Meas Temp	9.7 f-m	1000	
Ref @ Meas Temp	8.0 f-m	1000	
RMC @ Meas Temp	No Mud Cake	1000	
BHT	20.6°C	1000	



COMPU-LOG V3L7 PLOT 01-24-81
 MCDERMITT #4
 BFEC
 HUMBOLT CO.
 HOLE DIAMETER : 03.0
 CAL STD CPS = 0000 CAL RUN CPS = 0000
 PROBE # 9055 -233 PROBE CAL BIAS = +00000
 TRUCK # 1915 DATA: V3L8
 APPL.#5 B
 DT/CR



COMPU-LOG V3L7 PLOT 01-24-81
 MCDERMITT #4 REPEAT
 BFEC
 HUMBOLT CO.
 HOLE DIAMETER : 03.0
 CAL STD CPS = 0000 CAL RUN CPS = 0000
 PROBE # 9055 -233 PROBE CAL BIAS = +00000
 TRUCK # 1915 DATA: V3L8
 APPL.#5 B
 DT/CR



COMPANY Bendix		EQUIPMENT DATA	
HOLE HD #2	CLAIM Adel Quad	Probe Ser No. 9055 - 231	Probe Dia. 1 7/8"
PROPERTY Lock Jacobs		NUCLEAR	
AREA Opalite Mine		Run No. 1	
COUNTY Malheur	STATE Oregon	Log Type Gamma	Neutron He 5
LOCATION	Other Services	Caliper NA	
SEC HE 5	TWP 41S RGF 4NE	Detector Size 7 7/8" x 4"	1" x 6"
Permanent Datum GL	Elev. 5200	Source Type NA	AmRe
Log Measured From GL	0 Ft Above Perm Datum	Source Strength NA	1 CI
Drilling Measured From GL	Elev. 5200	Source Scavenging NA	1A-0"
CASING RECORD		App. Gain NA	NA
Size (OD, ID) Vgs	From To	Disc Level NA	NA
4 1/2" / 4"	0 42'	K-Factor Analog 5.5R x 10 ⁻⁶	-
3 1/2" / 3 1/16"	42' 460'	Deadtime Digital 1.0R x 10 ⁻⁶	-
BOREHOLE RECORD		Disc Level NA	NA
Bit Size	From To	K-Factor Digital 5.5R x 10 ⁻⁶	-
HD 3 25/32	0 460'	Deadtime Analog 1.0R x 10 ⁻⁶	-
HD 2 63/64	460' 802'	Deadtime Digital 1.07 μ sec	-
Depth Driller 802'		Date Calc 11-28-80	-
Depth Logger 797'		Casing Factor -	-
Type Fluid in Hole H ₂ O & Polydrill		ELECTRICAL	
Salinity ppm Not available		Run No. 1	1
pH and Fluid Loss Not available		Log Type SP	Resistance
Density lb/gal Not available		Normal Spacing -	Single Point
Fluid Level 153'		SP Reference Mud Pit -	-
Source of Sample Not available		SP Offset +50	-
Run @ Meas Temp Not available		Brillie Length -	-
Run @ Meas Temp Not available		CALIPER	
BWT 108.8°F		Run No. 1	1
		Log Type Temperature	Vertical Dev.

Remarks: Vertical Deviation not accurate in casing.
 RUT not run because of hole conditions.

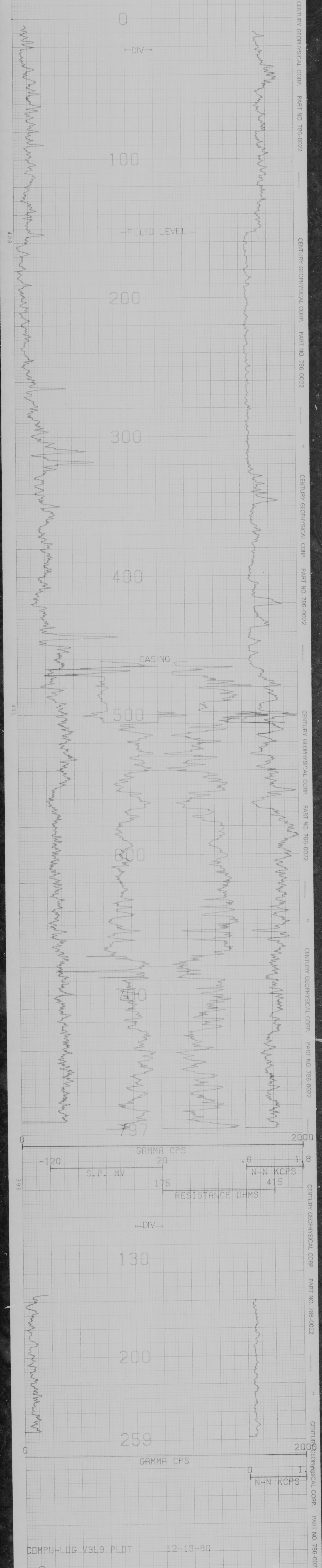
Start	2200	Standby	None
End	2400		
Total	2.0		

Checked Log: C.M.H.

Log Type	From	To	Footage Logged	Speed Ft./Min	Depth Scale	Sens Counts/Div	Pen Zero Div L	Digital Time (min)	Remarks
Gamma	4	797	798	60	20' / in	200cps/in	0R	.5'	Main
SP	462	797	335	"	"	35mv/in	3R	"	"
Resist.	"	"	"	"	"	600cps/in	5R	"	0 bias ± 499'
Neutron	9	797	798	"	"	600cps/in	9R	"	0 bias ± 506'
Temp.	12	797	798	"	"	degrees F.	-	5'	"
V-D	0	798	798	"	1' / in	above	-	50	"
G-N-E	9	259	250	"	20' / in	above	above	.5'	Repeat

Total Footage Logged 4073'

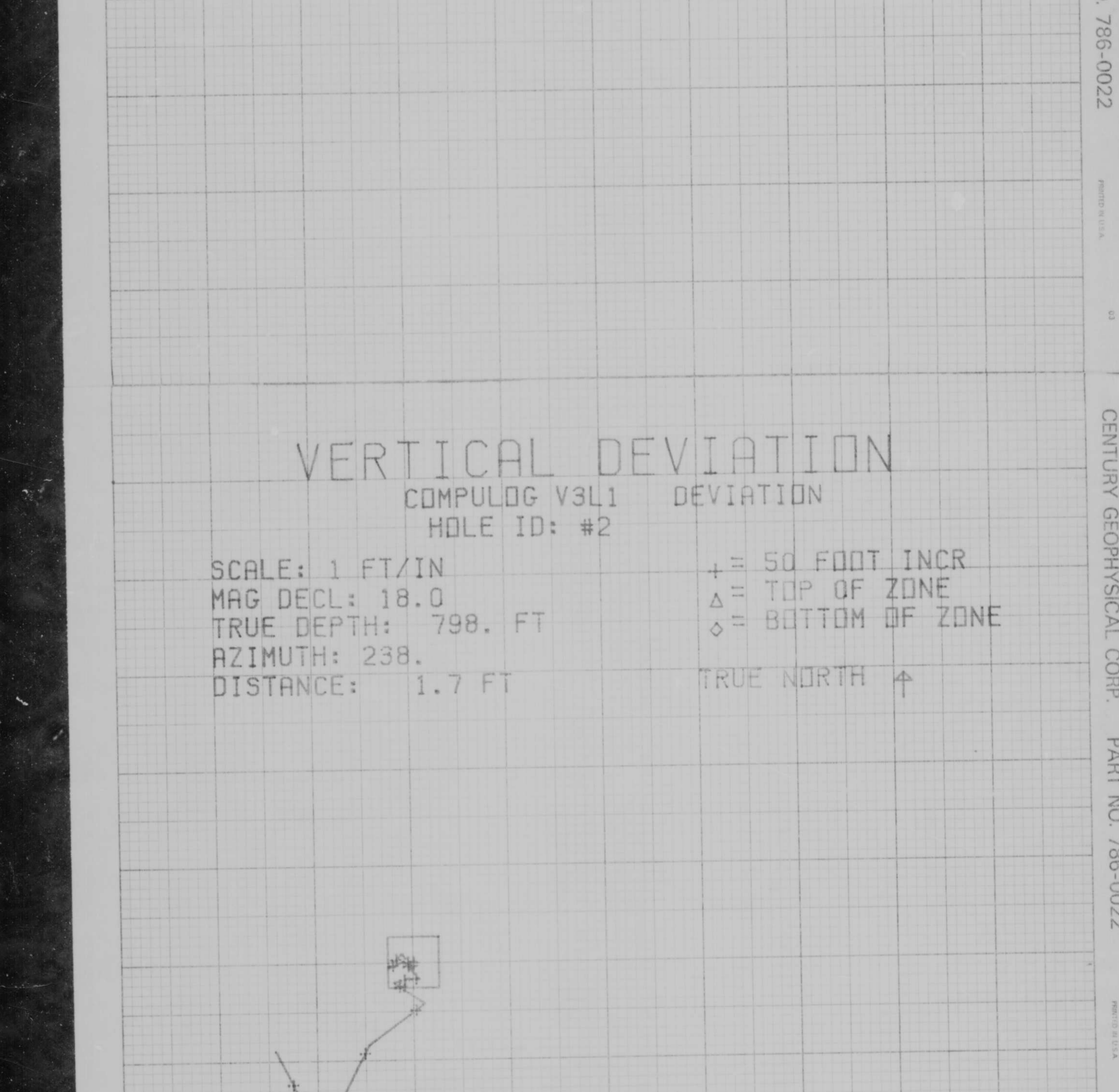
Vertical Deviation: 1.7 FT
 TRUE NORTH ↑



COMPU-LOG V3L9 PLOT 12-13-80

2
 BENDIX
 MCDERMITT NEVADA
 HOLE DIAMETER : 04.0

CAL STD CPS = 0000 CAL RUN CPS = 0000
 PROBE # 9055A -231 PROBE CAL BIAS = +0000
 TRUCK # 1825 DATA: V3L10
 APPL.#5 E
 DT/DP



VERTICAL DEVIATION
 COMPULOG V3L1 DEVIATION
 HOLE ID: #2
 SCALE: 1 FT/IN
 MAG DECL: 18.0
 TRUE DEPTH: 798. FT
 AZIMUTH: 238.
 DISTANCE: 1.7 FT

CENTURY GEOPHYSICAL CORP. PART NO. 786-0022



Field Engineering Corporation
Grand Junction Operations
P.O. Box 1569
Grand Junction, CO 81502

IT

Date 1-11-81
Truck No. 1915
Operator Pickering/Gregson

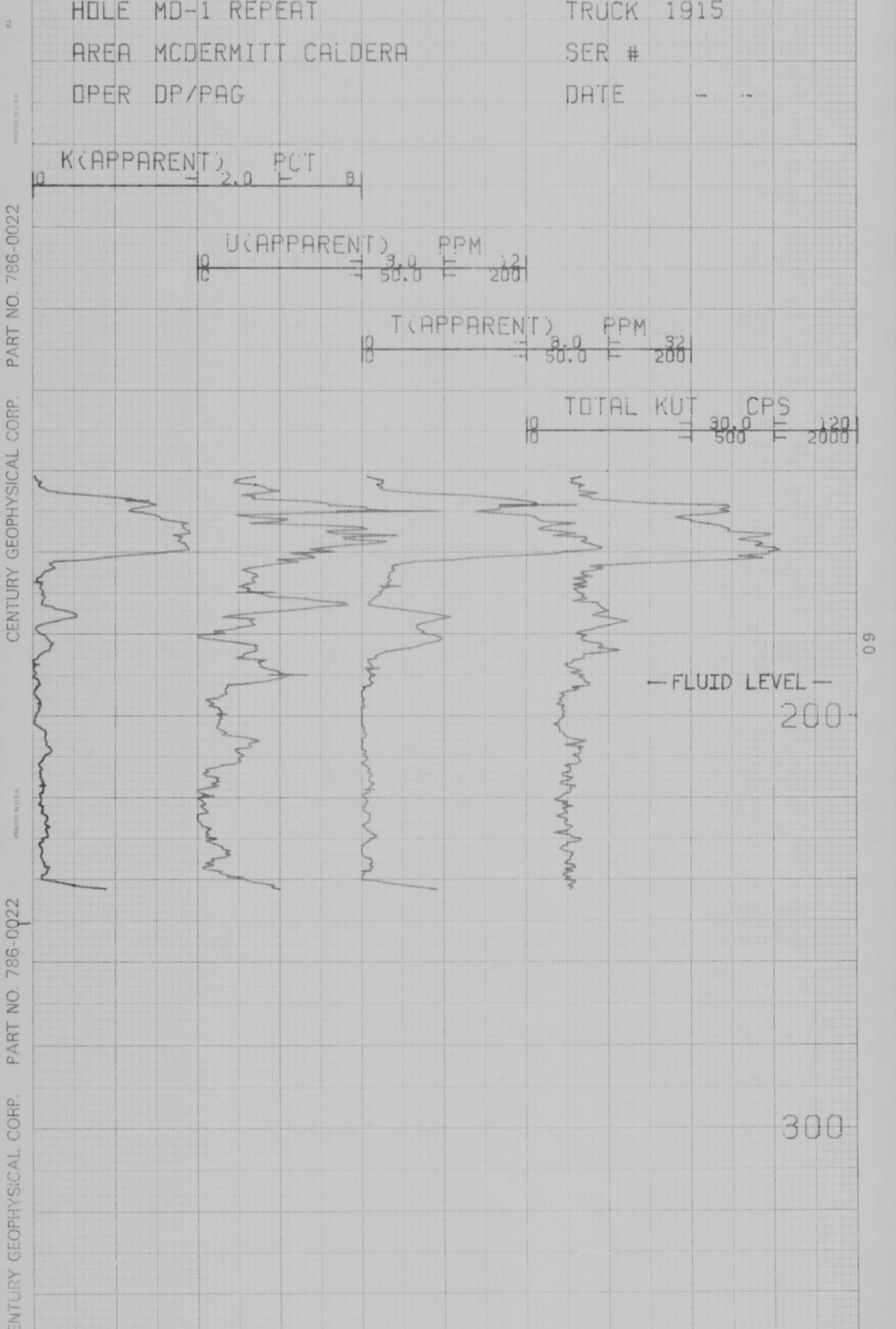
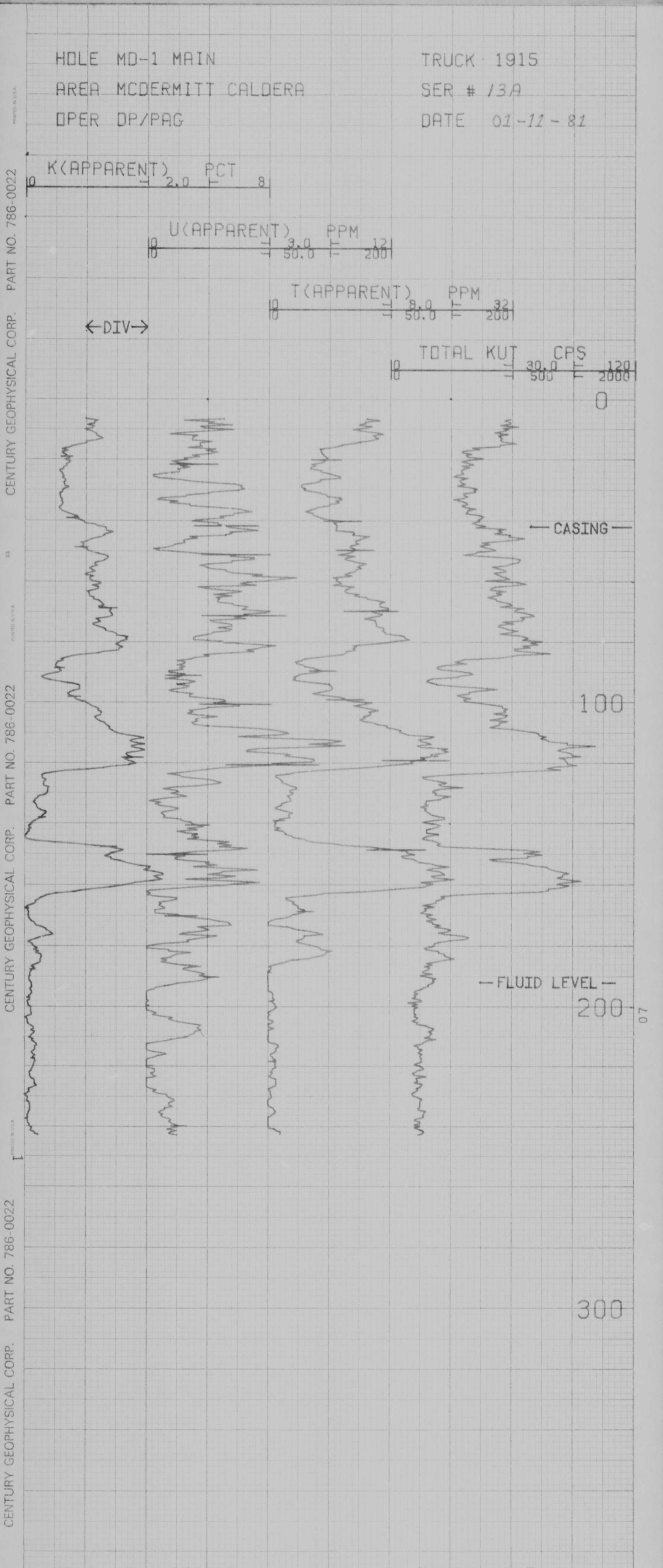
COMPANY				EQUIPMENT DATA			
Bendix				Probe Ser. No. 251A-13			
HOLE MD-1 CLAIM Not Available				Probe Diam 2 1/8"			
PROPERTY VYA Quad				NUCLEAR			
AREA McDermitt Caldera				Run No. 2			
COUNTY Humboldt STATE Nv				Log Type KUT			
LOCATION SW ₄				Detector NaI			
SEC 17 TWP 44N RGE 35E				Detector Size 11" x 12"			
Other Services GR, R, SP, NL, DS, TL				Source Type NA			
Permanent Data Ground Level Elev 5667'				Source Strength NA			
Log Measured From CL 0				Source Spacing NA			
Drilling Measured From GL Elev 5667'				Ampl. Gain 7.5 x 4			
Casing Record				Disc Level NA			
Size (OD-ID) Wgt From To				K-Factor Digital K U T			
4.5"/4.0" 0 42'				Deadtime Digital .232 1.659 7.916 (Large Xtal)			
BOREHOLE RECORD				Date Cells 12-17-80			
Bit Size From To				Casing Factor			
6" 0 42'				Run No.			
3.875 42' 245'				Log Type			
Depth-Driller 245				Normal Spacing			
Depth-Logger 245'				CP Reference			
Type Fluid in Hole Driscose, FD-2				SP Offset			
Salinity ppm Not Available				Bride Length			
pH and Fluid Loss Not Available				Run No.			
Density lb/gal Not Available				Device Type			
Fluid Level 198'				Tool Position			
Source of Sample None				Minimum Span			
Rm @ Meas Temp Not Available				Maximum Span			
Rint @ Meas Temp Not Available				Run No.			
Rinc @ Meas Temp Not Available				Log Type			
BHT 53.0°F				CALIPER			

Remarks: Drillers lost circulation at 245'; very little fluid in the hole. The KCT type software were inoperable; therefore, the stripping system software was utilized. Data from TDC-183 TK's 3 & 4 were converted to LIL specs on TDC-633 TK's 2 & 3.

TIME RECORD		
Start	Plg	Standby
End	20:15	
Total	22:15	0
	2.0 hr	

LOGGING DATA												
Cart. No.	Type	Log Type	Depth		Footage Logged	Speed Ft./Min	Depth Scale	Sens Units/Div	Pen Zero Div L	Digital		Remarks
			From	To						Time	Intrt	
633	2	K	242'	5'	237'	5	20/in	2.0 PCT	0	.5'		Main Log
		U	"	"	237'	"	"	3.0 ppm	2	"		Open Hole
		T	"	"	237'	"	"	8.0 ppm	4	"		
		TOT KUT	"	"	237'	"	"	30 cps	6	"		
3	K	U	242'	140'	102'	"	"	2.0 pct	0	"		Repeat Open Hole
		T	242'	140'	102'	"	"	3.0 ppm	2	"		
		T	242'	140'	102'	"	"	8.0 ppm	4	"		
		TOT KUT	242'	140'	102'	"	"	30 cps	6	"		
Total Footage Logged					339'							

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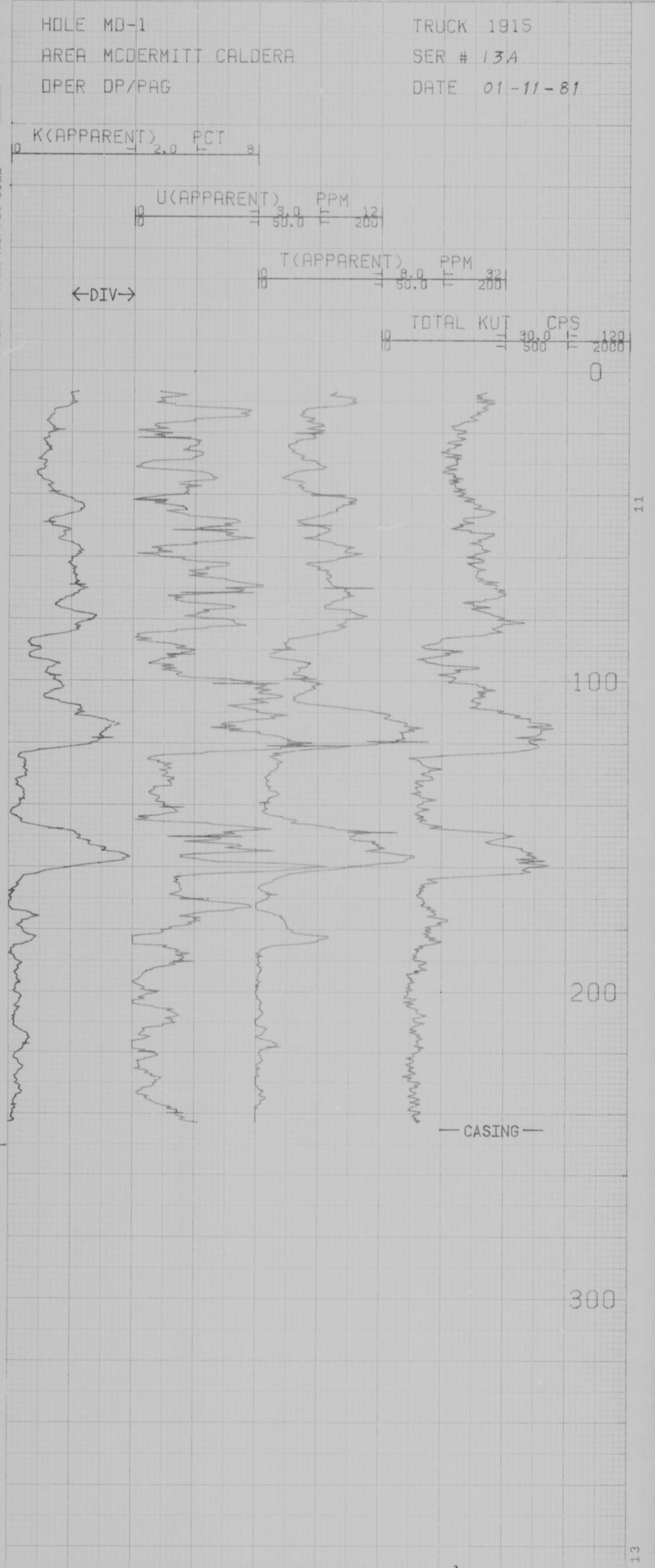
COMPANY Bendix		EQUIPMENT DATA	
PROPERTY MD-1	CLAIM Not Available	Probe Ser No 251A-13	Probe Dia 2 1/8"
PROPERTY VYA Quad		NUCLEAR	
AREA McDermitt Caldera		Run No	1
COUNTY Humboldt	STATE NV	Log Type	KUT
LOCATION SW 1/4	Other Services GR, SP, R, NL, DS, TL	Detector	NaI
SEC 17	TWP 44N	Detector Size	1 1/2" x 12"
RGE 35E		Source Type	NA
Permanent Datum Ground Level	Elev 5667'	Source Strength	NA
Log Measure From GL	0 Ft Above Perm Datum	Source Spacing	NA
Drilling Measured From GL	Elev 5667'	App. Gain	4 x 7.5
CASING RECORD		Disc Level	NA
Size (O.D.) Wgt	From To	K-Factor	Digital K U T
4.5"/4.0"	0 42'	Analog	.232 1.659 7.916 (Large Xtal)
3.5"/3.06" Drill Rods	0 245'	Dead-time	Digital --- Analog ---
BOREHOLE RECORD		Date Cals	12-17-80
Bit Size	From To	Casing Factor	---
6"	0 42'	Run No	
3.875"	42' 245'	Log Type	
Depth Driller	245'	Normal Spacing	
Depth Logger	245'	SP Reference	
Type Fluid in Hole	Driscose, FD-2	SP Offset	
Salinity ppm	Not Available	Bridge Length	
pH and Fluid Loss	Not Available	CALIPER	
Density lb/gal	Not Available	Run No	
Fluid Level	Dry	Device Type	
Pressure in Casing	Not Available	Tool Position	
Rm @ Meas Temp	Not Available	Minimum Span	
Rmf @ Meas Temp	Not Available	Maximum Span	
Rmc @ Meas Temp	Not Available	OTHER	
BHT	53.0°F	Run No	
		Log Type	

Remarks: Drillers lost circulation @ 245', no fluid in the hole. Drill rods were left in the hole for run #1. No repeat of Run #1 since logging was done after drill rods were pulled. Data from TDC-183 TK 2 converted to LLL specs on TDC-633 TK 1.

TIME RECORD	
Rig	Standby
Start 18:15	
End 19:45	
Total 1.5 hr.	0

LOGGING DATA												
Cart. No.	Cart. Type	Log Type	Depth From	Depth To	Footage Logged	Speed Ft/Min	Depth Scale	Sens. Units/Div	Pen Zero Div L	Digital Time	Digital In/ft	Remarks
633	1	K	243'	5'	238'	5	20' / 1in	2.0 PCT	0	---	.5'	Run #1
		U	"	"	238'	"	"	3.0 ppm	2	---	"	w/Drill Rods
		T	"	"	238'	"	"	8.0 ppm	1	---	"	
		TOT KUT	"	"	238'	"	"	30 cps	6	---	"	
Total Footage Logged					238'							

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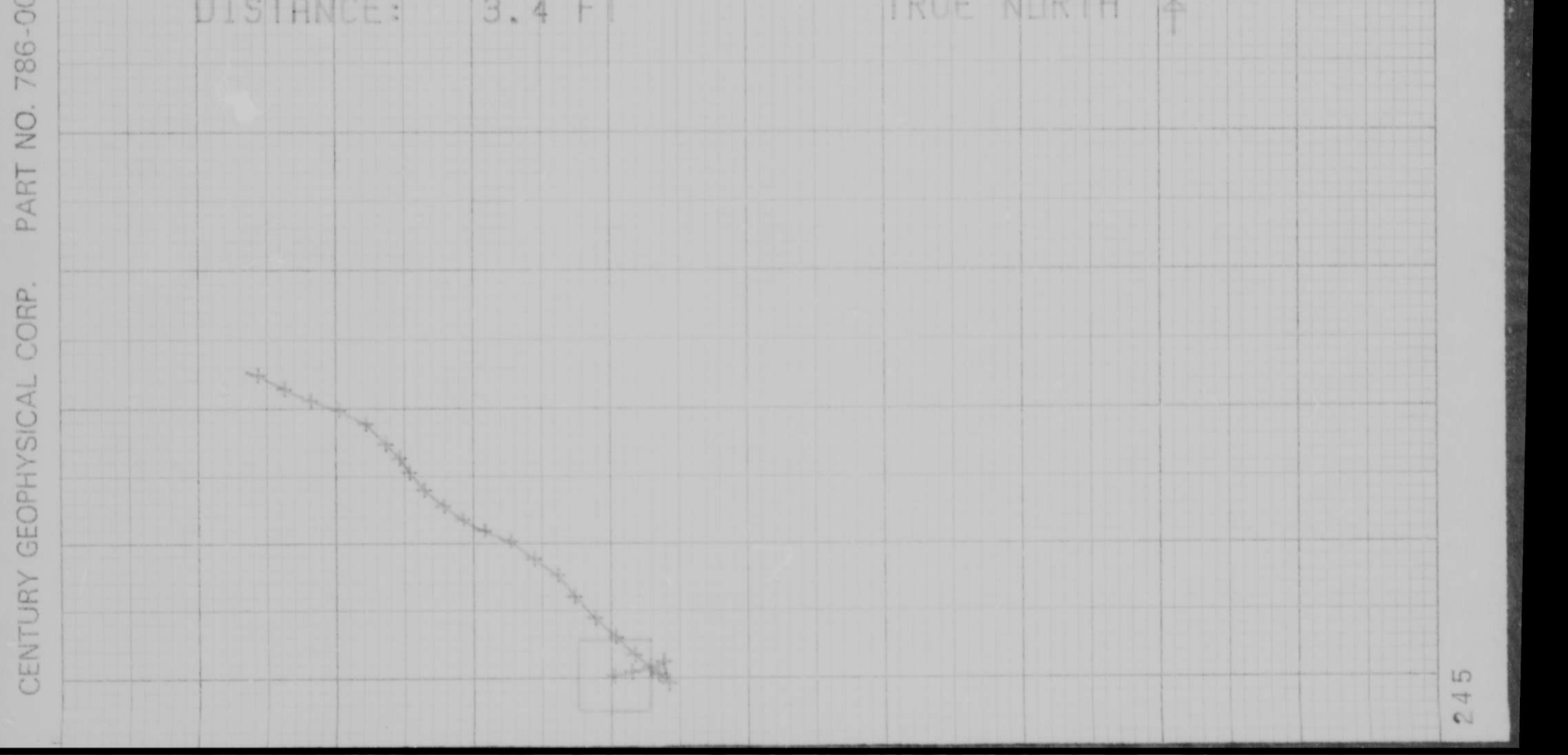
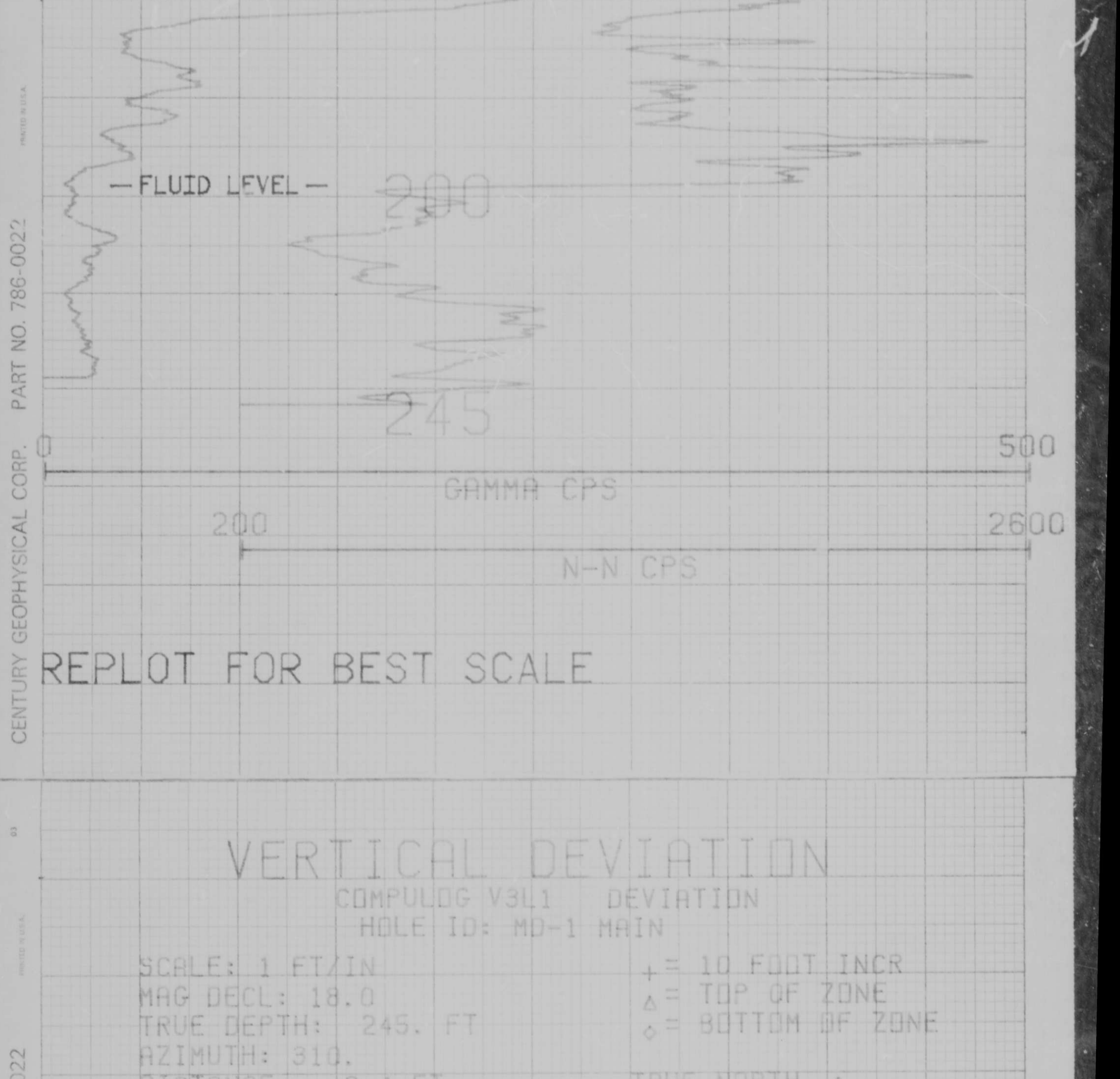
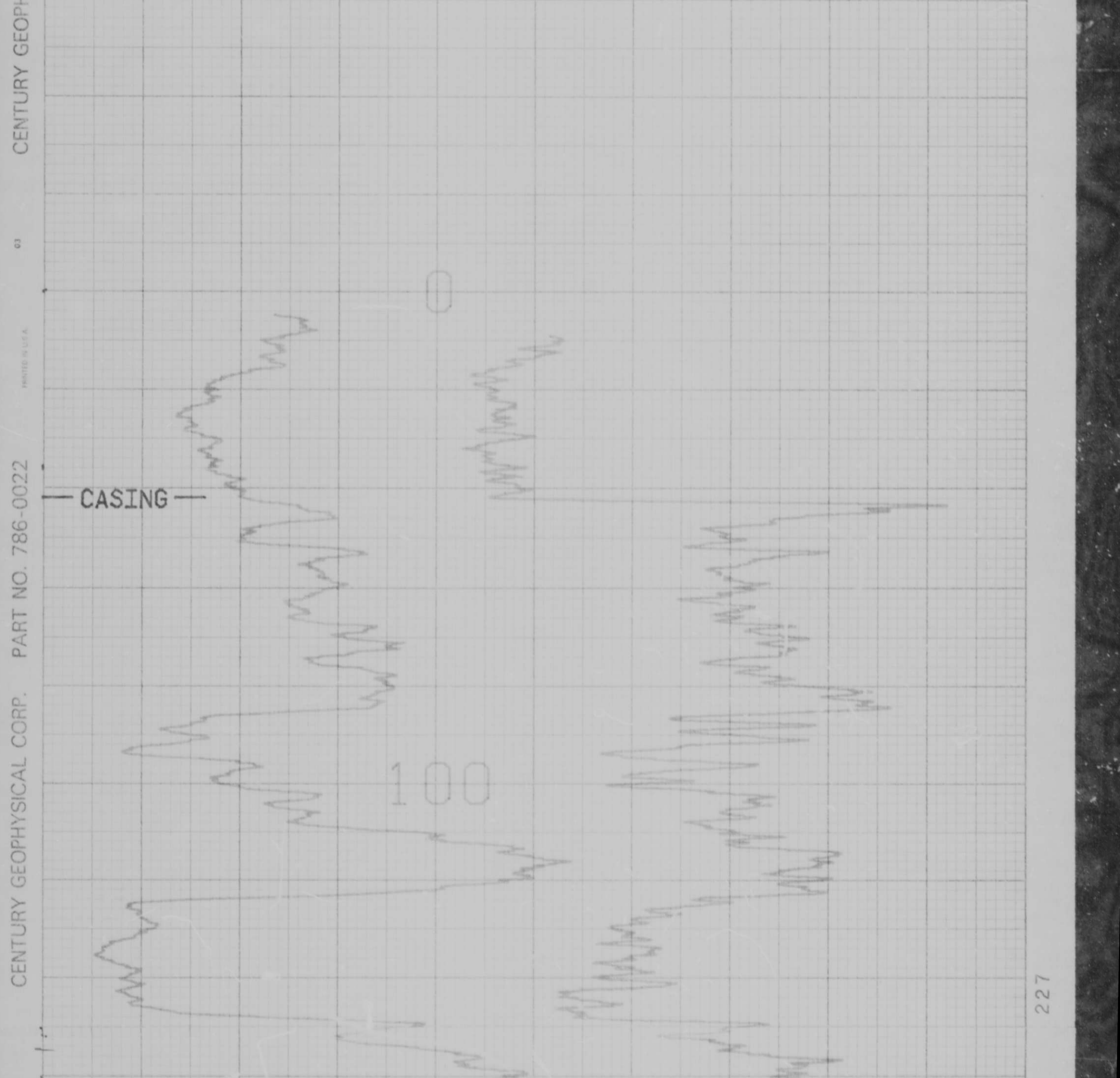
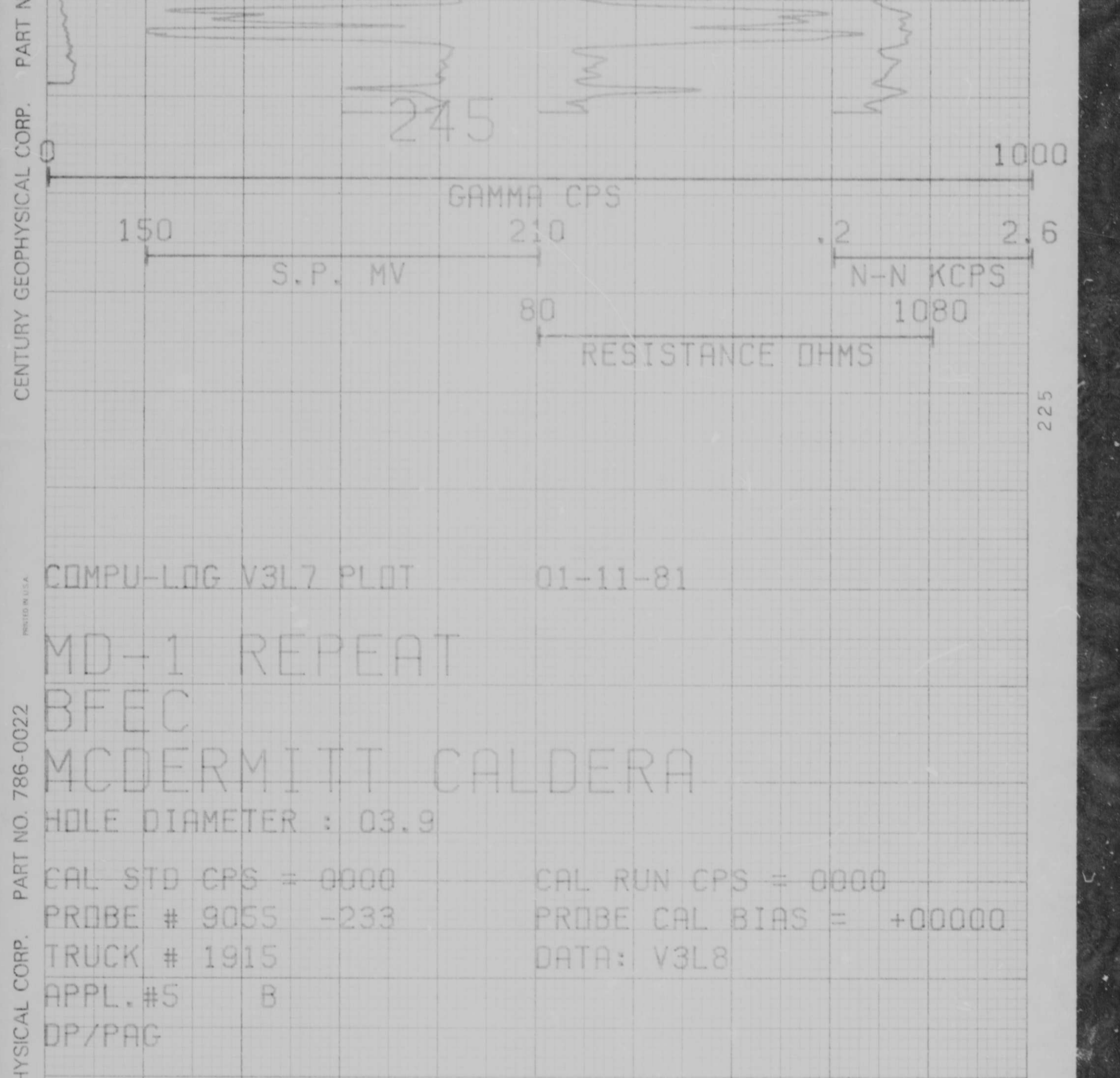
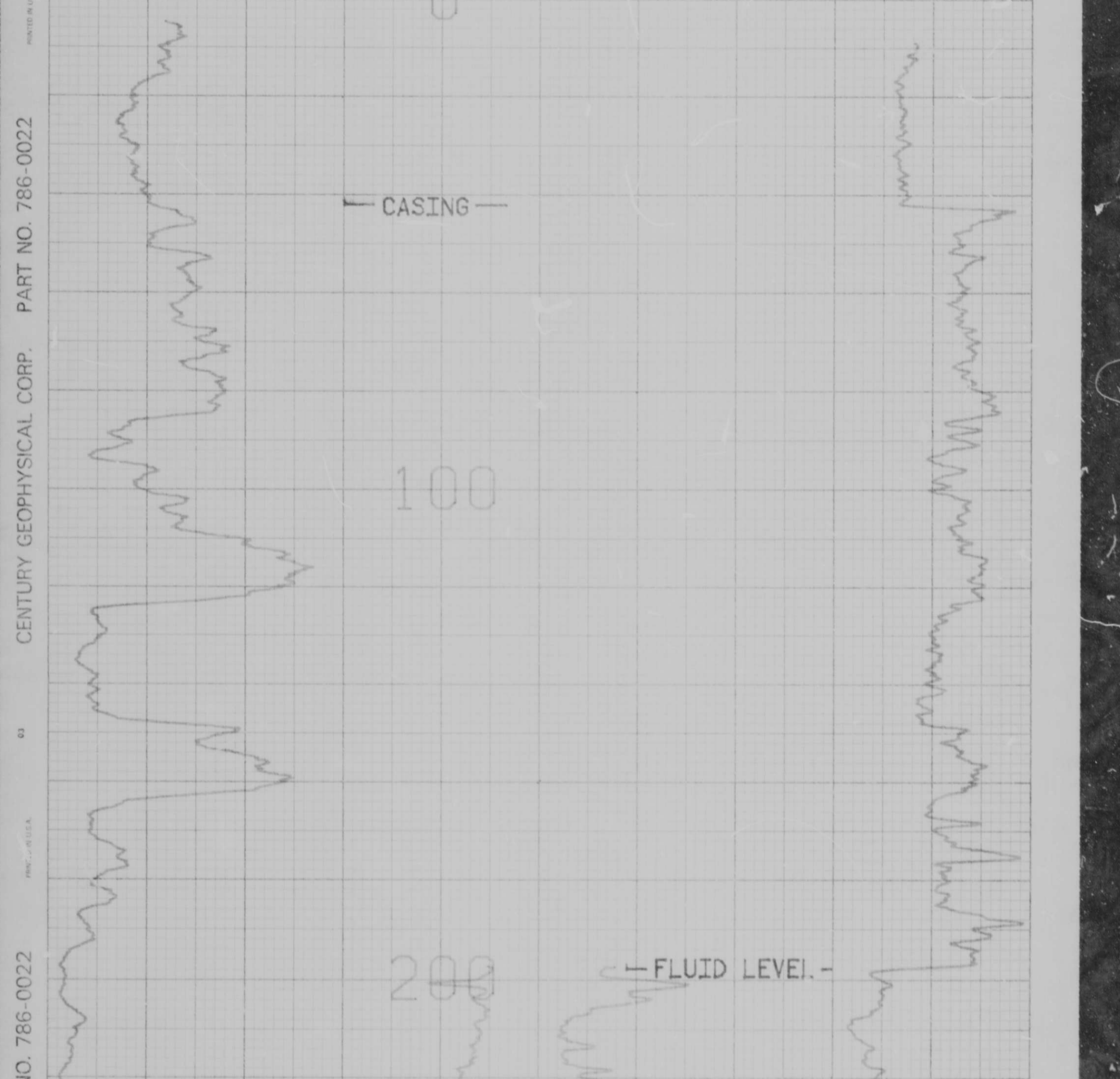
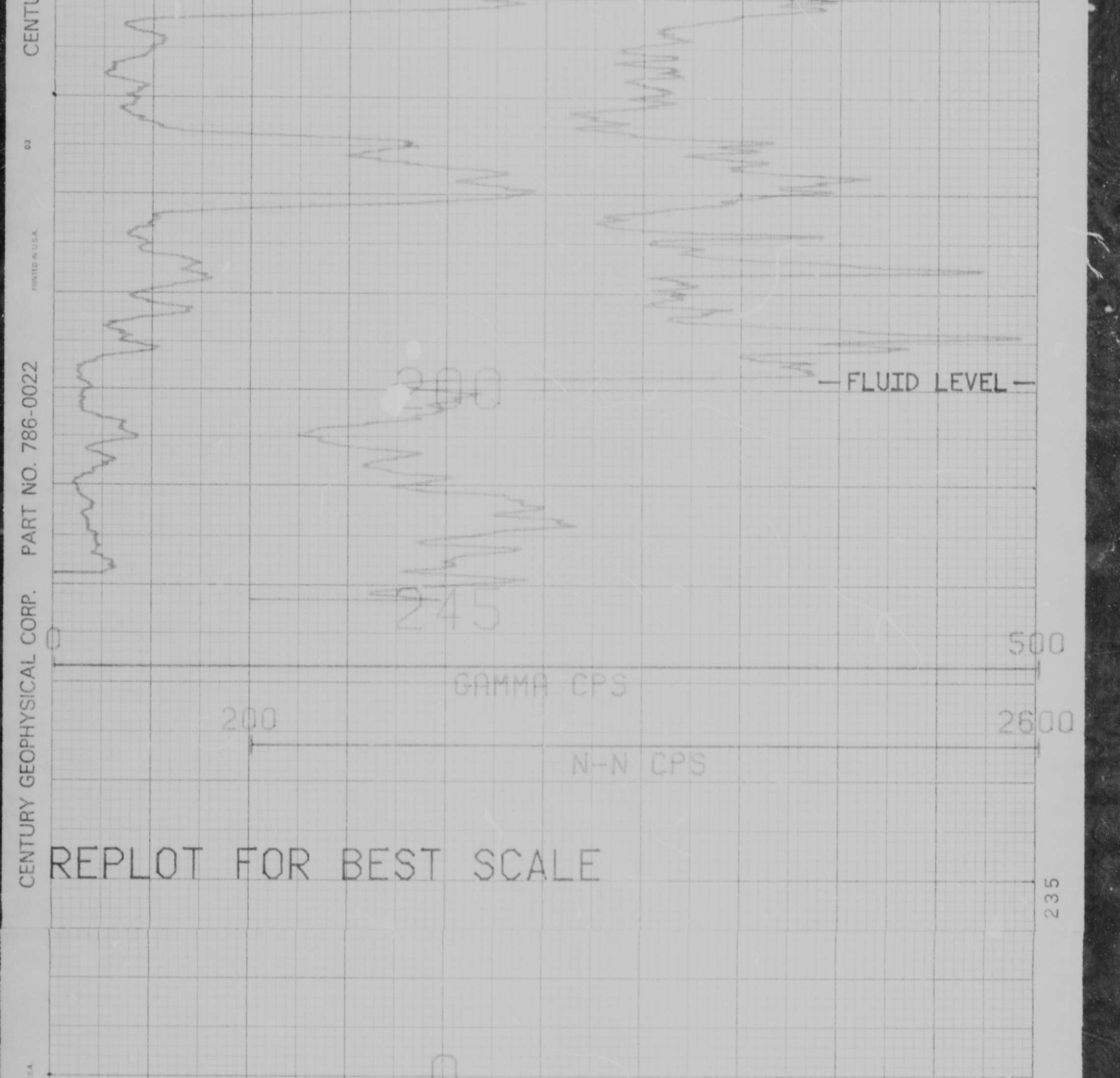
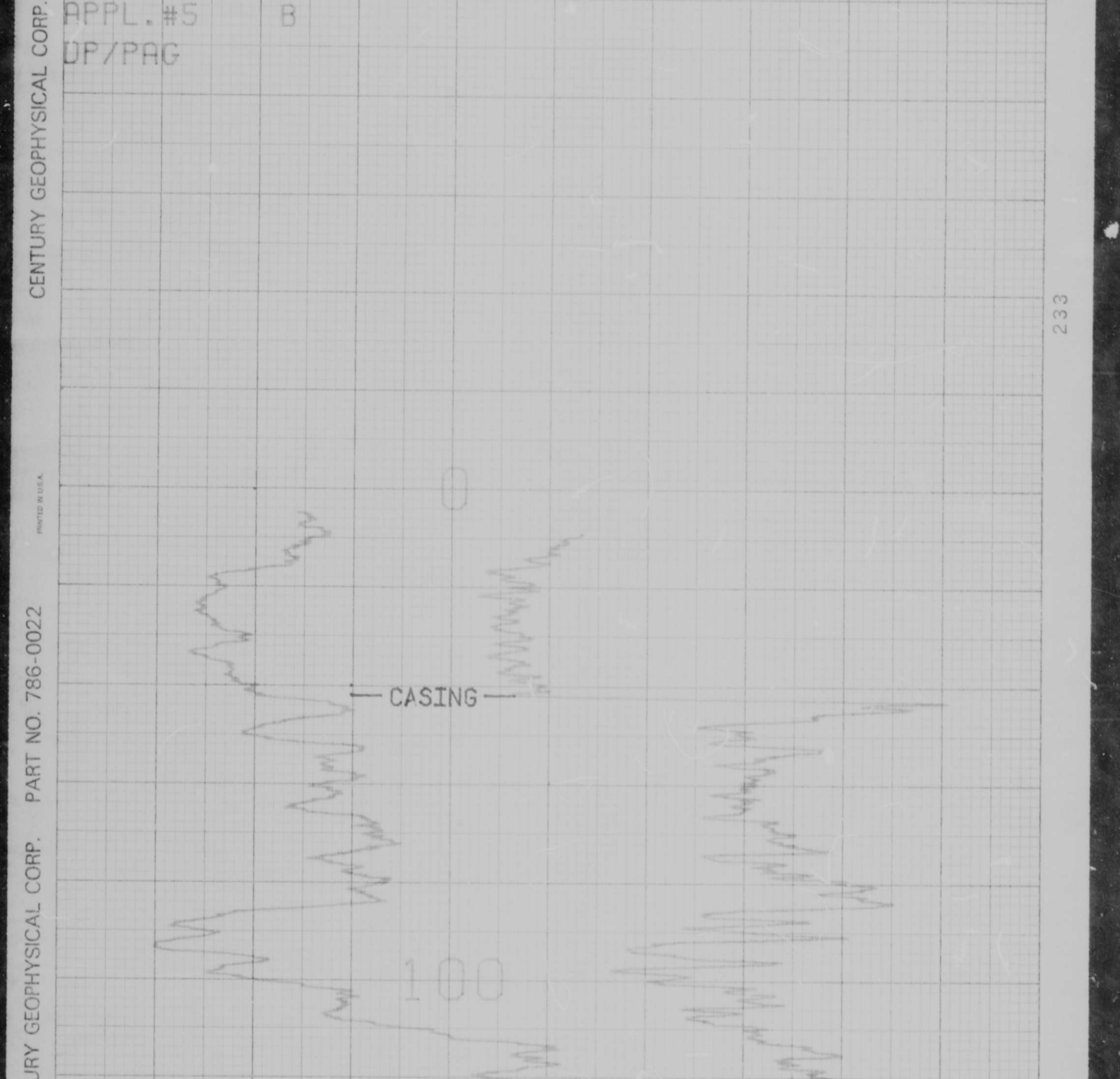
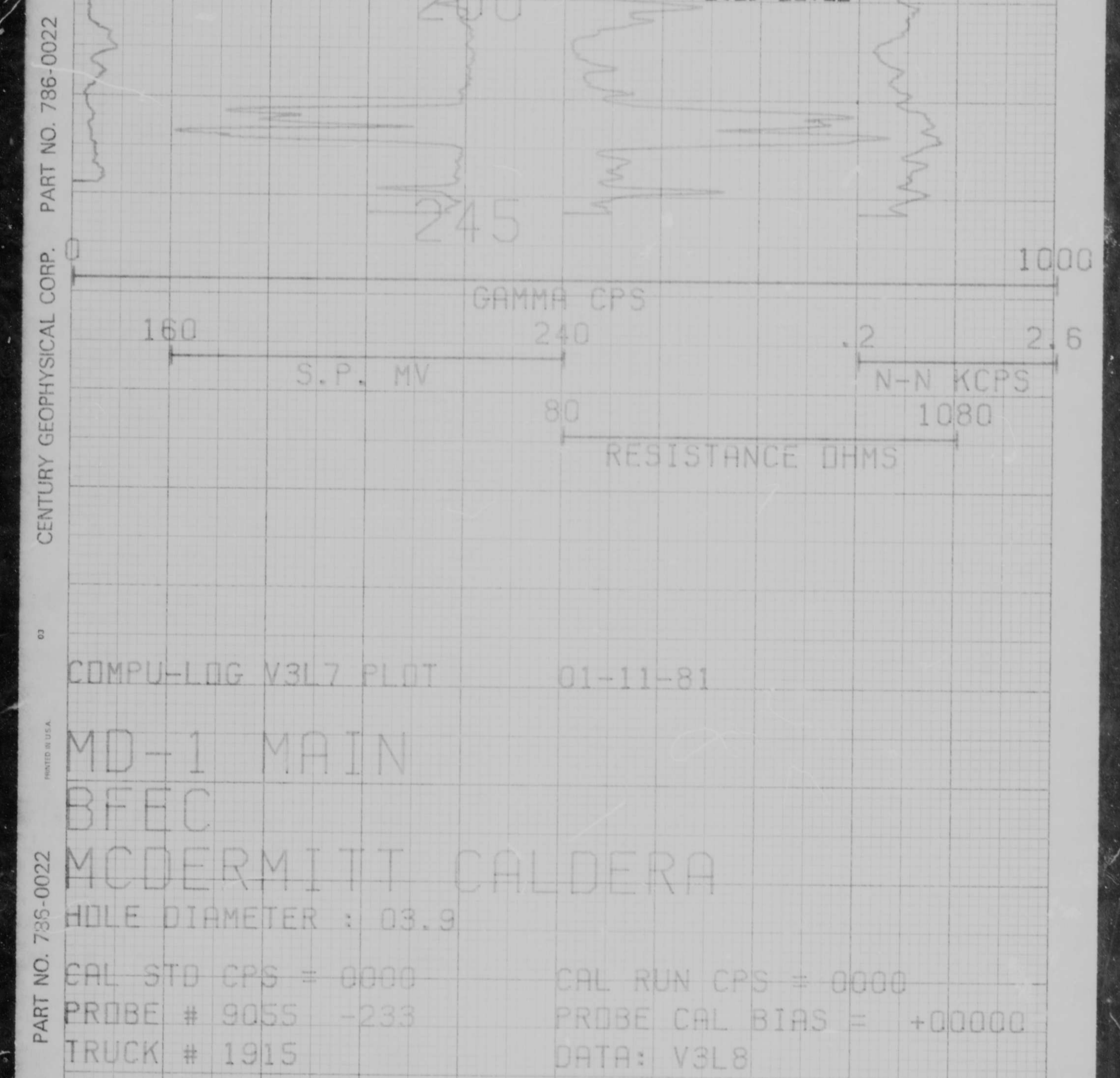
CENTURY GEOPHYSICAL CORP. PART NO. 786-0022

COMPANY	MD-1	CLAIM	Not Available	Probe No.	9055A - 233	Well Depth	1,728'
HOLE	VYA Quad			Log Type	Gamma	Neutron	
PROPERTY	McDermitt Caldera			Time	2/8" x 6"	1" x 6"	
AREA	Humboldt	STATE	NV	Drill Rate	NA	NA	
COUNTY	SW 1			Drill Bit	NA	NA	
LOCATION	SEC 17	TWP 44N	RGE 35E	Drill Pipe	NA	NA	
PERMIT	Ground Level	City	5067'	Drill Collar	NA	NA	
LOG MEASUREMENT	GL	0	ft Above Perm. Bottom	Drill Collar	5.40 x 10 ⁻³		
DRILLING	GL	0	ft Above Perm. Bottom	Drill Collar	94 μsec		
				Drill Collar	97 μsec		
				Drill Collar	12-31-80		

CASING RECORD				ELECTRICAL			
From	To	Depth	Remarks	Run No.	SP	Resistance	
4.5'	0	42'		2	2	Resistance	
				NA	NA	Single Pt.	
				NA	NA		
				NA	NA		

BOREHOLE RECORD				CALIPER			
Bit Size	From	To	Remarks	Run No.	SP	Resistance	
4.0"	0	42'		2	2	Resistance	
3.625"	42'	245'		NA	NA	Single Pt.	
				NA	NA		
				NA	NA		

LOGGING DATA			
Log Type	Depth	Gamma	Neutron
2	238'	160	1000
2	243'	240	1080
2	245'	80	2600



COMPANY Bendix		EQUIPMENT DATA	
HOLE MD-1	CLAIM Not Available	Probe Ser No. 9055A-233	Probe Diam 1.778"
PROPERTY VYA Quad		NUCLEAR	
AREA McDermitt Caldera		Run No. 1	1
COUNTY Humboldt	STATE NV	Log Type Gamma	Neutron
LOCATION SW1	Other Services KUT	Detector NaI	He ³
SEC 17	TWP 44N RGE 35E	Detector Size 7/8" x 4"	1" x 6"
Permanent Datum Ground Level	Elev 5067'	Source Type NA	AmBe
Log Measured From GL	0 Ft Above Perm Datum	Source Strength NA	1 Ci
Drilling Measured From GL	Elev 5067'	Source Spacing NA	14"
CASING RECORD		Amp Gain NA	NA
Size (OD-ID) Wgt	From To	Disc Level NA	NA
4.5"/4.0"	0 42'	K-Factor Digital 5.49 x 10 ⁻⁶	---
3.5"/3.06" (Drill Rods)	0 245'	Analog 5.49 x 10 ⁻⁶	---
BORSHOLE RECORD		Deadtime Digital .94 μ sec	---
Bit Size	From To	Analog .97 μ sec	---
6"	0 42'	Date Calib 12-31-80	---
3.875"	42' 245'	Casing Factor	---
Depth Driller 245'		ELECTRICAL	
Depth-Logger 245'		Run No.	
Type Fluid in Hole Driscose, FD-2		Log Type	
Salinity ppm Not available		Normal Spacing	
pH and Fluid Loss Not available		SP Reference	
Density lb/gal Not available		SP Offset	
Fluid Level Dry		Bridle Length	
Source α -samples Not available		CALIPER	
Rm @ Meas Temp Not available		Run No.	
Rmd @ Meas Temp Not available		Device Type	
Rmc @ Meas Temp Not available		Foot Position	
BHT 53.0°F		Minimum Span	
		Maximum Span	
		OTHER	
		Run No.	
		Log Type	

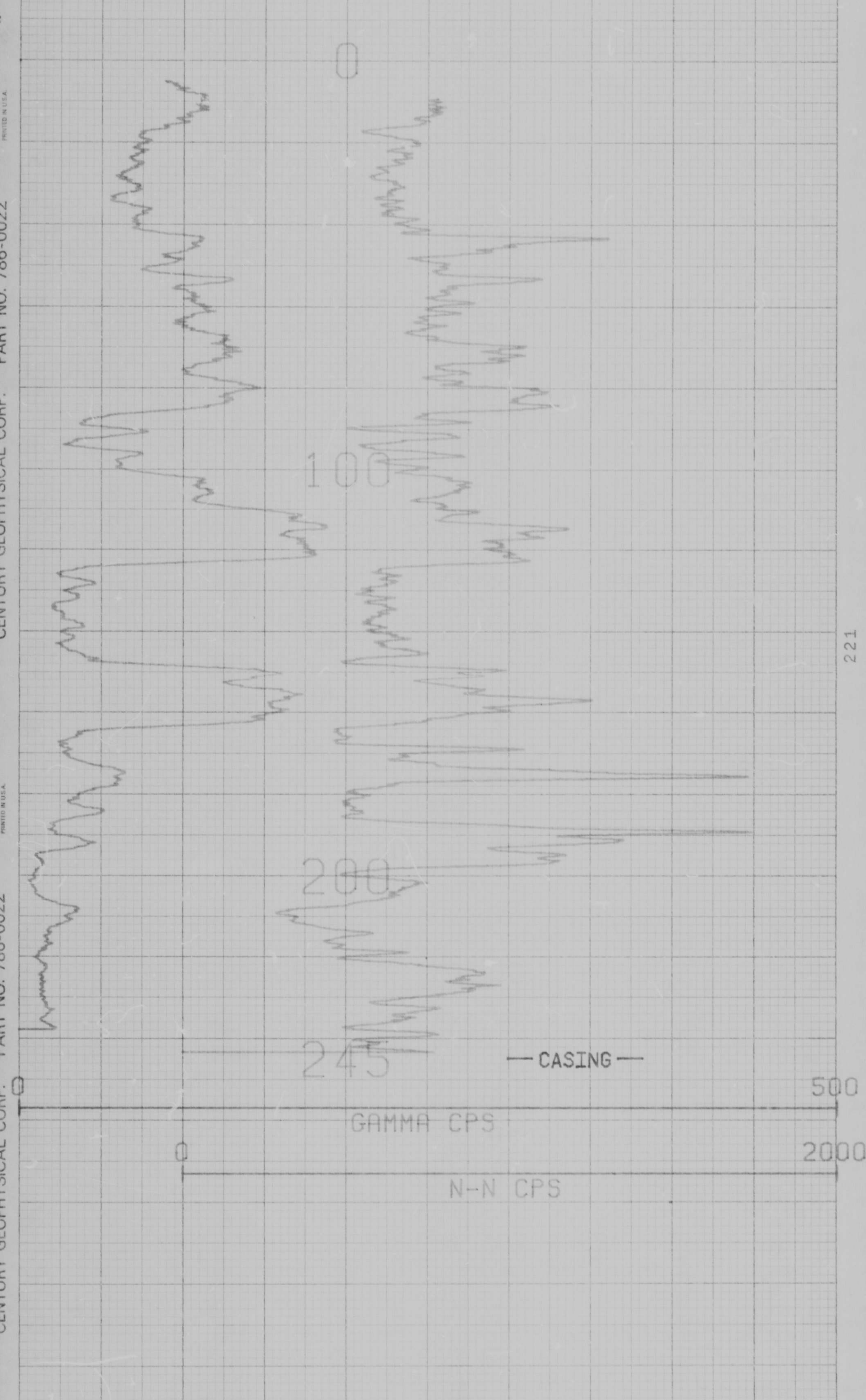
Remarks Drillers lost circulation @ 245', no fluid in hole. Drill rods were left in the hole for Run #1. No repeats for Run #1.
 Hole was assumed dry since there is no indication on the log of any fluid level.

TIME RECORD		
Start	Rig	Standby
End	1745	
Total	1815	0
	.5 hrs.	

Curt. No.	Type	Log Type	Depth		Footage Logged	Speed Ft. Min	Depth Scale	Sens Units/Div	Pen Zero Div L	Digital		Remarks
			From	To						Time	Intrl	
183	1	Gamma	238'	4'	234'	60	20"/in	50 cps	0	---	.5'	w/drill rods
		Neutron	243'	9'	234'	"	"	250 cps	2	---	"	"

Total Footage Logged 468'

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COMPU-LOG V3L7 PLOT 01-11-81

MD-1
 BFEC
 MCDERMITT CALDERA
 HOLE DIAMETER : 03.9

CAL STD CPS = 0000 CAL RUN CPS = 0000
 PROBE # 9055 -233 PROBE CAL BIAS = +00000
 TRUCK # 1915 DATA: V3L8
 APPL.#7 B
 DP/PAG