CENTURY GEOPHYSICAL CORPORATION
Tulsa, Oklahoma

COMPANY: BENDIX FIELD ENGINEERING CORPORATION		OPERATOR: B. TILLMAN	DATE: 10/03/78
BOREHOLE: SR-1		UNIT NO.: 7664	FIELD OFFICE: GRAND JUNCTION
AREA	ELEVATION		
COUNTY: EMERY	STATE: UTAH		
SECTION: NW SE 11	TOWNSHIP: 17S	RANGE: 13E	

HOLE DATA

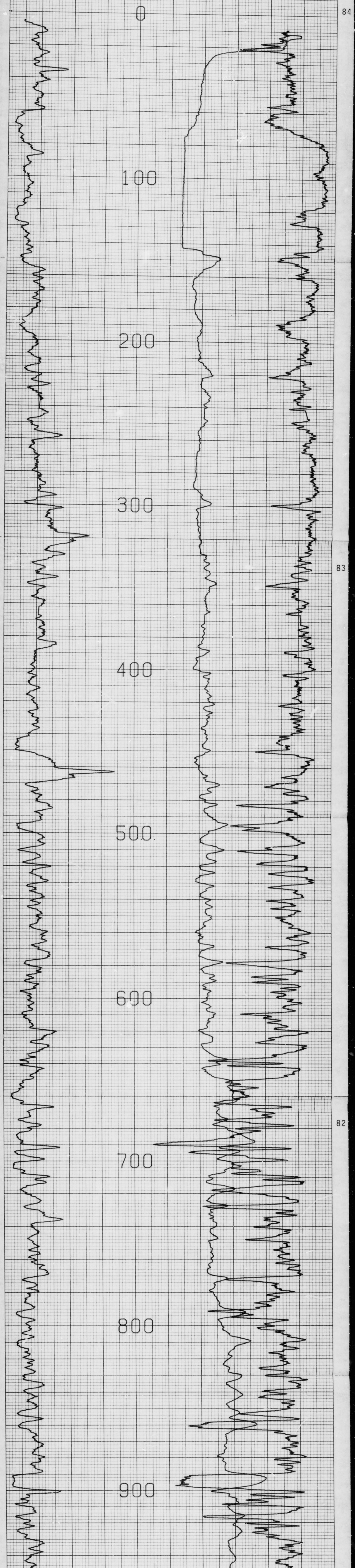
TOTAL DEPTH — DRILLER	1020	BIT SIZE	5.0
TOTAL DEPTH — LOGGER	1018	CASING — TYPE & SIZE	
TOTAL FOOTAGE LOGGED	1018	CASING DEPTH	
LOGGING SPEED	55	BOREHOLE FLUID	T.D. MUD
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	@ °F
PROBE NO.	9055-33	SOFTWARE LEVEL	

REMARKS: GAMMA, SP, RESISTANCE, NEUTRON, DRIFT, TEMP.

EQUIPMENT DATA

		9010	9030	9050/55	9060
PROBE MODEL		9010	9030	9050/55	9060
PROBE DIAMETER		1.87"	2.0"	1.87"	1.4"
NATURAL GAMMA	DETECTOR TYPE	NaI	NaI	NaI	NaI
	DETECTOR SIZE	.875" x 1.25"	1.25" x 4.5"	.875" x 4.0"	.5" x 3.0"
	STD. K-FACTOR	1.59×10^{-5}	—	$.558 \times 10^{-5}$	1.62×10^{-5}
	STD. DEADTIME	1μsec	—	1.18μsec	1μsec
	CALIB. MODEL LOC.		—		
	CALIB DATE		—		
	K-FACTOR		—	$.585 \times 10^{-5}$	
	DEADTIME		—	1μsec	
	TEST READING		—		
	WATER FACTOR		—		
	CASING FACTOR		—		
DENSITY	DETECTOR TYPE	—	NaI	—	NaI
	DETECTOR SIZE	—	.5" x 1.5"	—	.5" x 3.0"
	SOURCE TYPE	—	Cs^{137}	—	Cs^{137}
	SOURCE NO.	—		—	
	SOURCE STRENGTH	—		—	
	SOURCE SPACING	—		—	
NEUTRON	DETECTOR TYPE	—	—	He^3	—
	DETECTOR SIZE	—	—	1.0" x 6.0"	—
	SOURCE TYPE	—	—	AmBe	—
	SOURCE NO.	—	—	438	—
	SOURCE STRENGTH	—	—	1Ci	—
	SOURCE SPACING	—	—		—
SNGL. PT RESISTANCE		1.4"D x 2.5"L	—	1.4"D x 2.5"L	1.1"D x 2.5"L
RESISTIVITY		—	6" FOCUSED	—	—
SELF POTENTIAL		YES	—	YES	YES
TEMPERATURE		—	—	YES	—
DEVIATION		—	—	NO / YES	—
CALIPER		—	YES	—	—

CT-112 REV. 11-78



COMPU-LOG V3L7 PLOT 10-03-78

SR-1
BENDIX
S R SWELL
HOLE DIAMETER : 05.0

CAL STD CPS = 0097 CAL RUN CPS = 0000
PROBE # 9055 -033 PROBE CAL BIAS = +00000
TRUCK # 7664 DATA: V3L5
APPL.#9 B
TILMAN

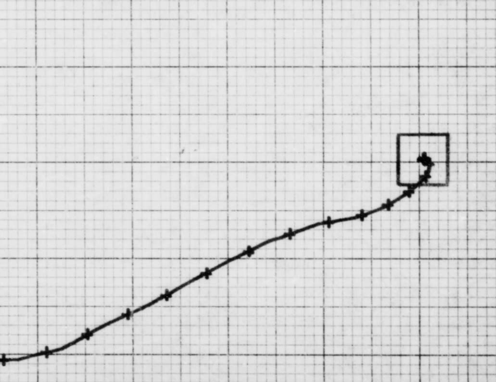
VERTICAL DEVIATION

HOLE ID: SR-1

SCALE: 5 FT/IN
MAG DECL: 15.0
TRUE DEPTH: 1018. FT
AZIMUTH: 253.
DISTANCE: 34.1 FT

+ = 50 FOOT INCR
Δ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑



CENTURY GEOPHYSICAL CORPORATION
Tulsa, Oklahoma

OPERATOR	B. TILLMAN
DATE	10/03/78
UNIT NO.	7664
FIELD OFFICE	GRAND JUNCTION
COMPANY	BENDIX FIELD ENGINEERING CORPORATION
BOREHOLE	SR-1
AREA	
ELEVATION	
COUNTY	EMERY
STATE	UTAH
SECTION	NW SE 11
TOWNSHIP	17S
RANGE	13E

HOLE DATA

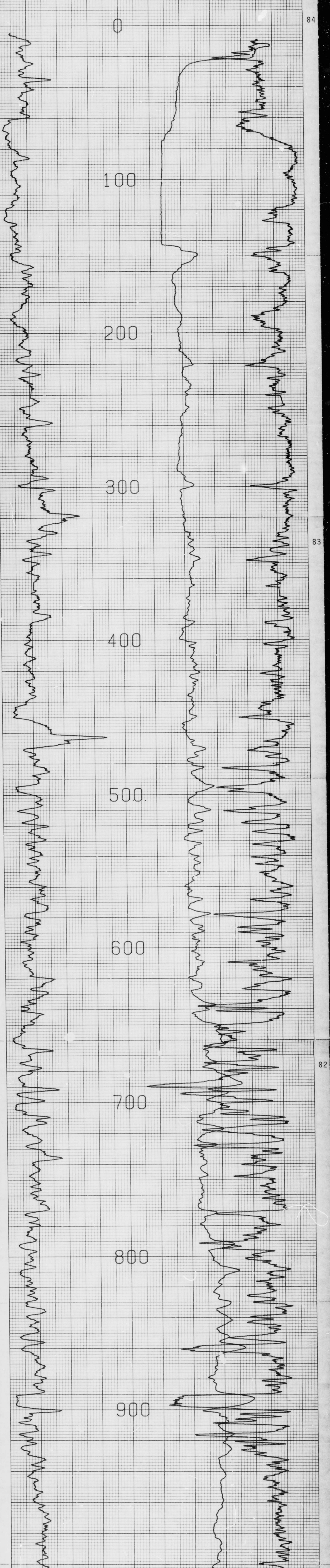
TOTAL DEPTH — DRILLER	1020	BIT SIZE	5.0
TOTAL DEPTH — LOGGER	1018	CASING — TYPE & SIZE	
TOTAL FOOTAGE LOGGED	1018	CASING DEPTH	
LOGGING SPEED	55	BOREHOLE FLUID	T.D. MUD
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	@ °F
PROBE NO.	9055-33	SOFTWARE LEVEL	

REMARKS: GAMMA, SP, RESISTANCE, NEUTRON, DRIFT, TEMP.

EQUIPMENT DATA

		9010	9030	9050/55	9060
PROBE MODEL		9010	9030	9050/55	9060
PROBE DIAMETER		1.87"	2.0"	1.87"	1.4"
NATURAL GAMMA	DETECTOR TYPE	NaI	NaI	NaI	NaI
	DETECTOR SIZE	.875" x 1.25"	1.25" x 4.5"	.875" x 4.0"	.5" x 3.0"
	STD. K FACTOR	1.59 x 10⁻⁵	—	.558 x 10⁻⁵	1.62 x 10⁻⁵
	STD. DEADTIME	1 μsec	—	1.18 μsec	1 μsec
	CALIB. MODEL LOC.		—		
	CALIB DATE		—		
	K FACTOR		—	.585x10⁻⁵	
	DEADTIME		—	1μsec	
	TEST READING		—		
	WATER FACTOR		—		
	CASING FACTOR		—		
DENSITY	DETECTOR TYPE	—	NaI	—	NaI
	DETECTOR SIZE	—	.5" x 1.5"	—	.5" x 3.0"
	SOURCE TYPE	—	Cs137	—	Cs137
	SOURCE NO.	—		—	
	SOURCE STRENGTH	—		—	
	SOURCE SPACING	—		—	
NEUTRON	DETECTOR TYPE	—	—	He3	—
	DETECTOR SIZE	—	—	1.0" x 6.0"	—
	SOURCE TYPE	—	—	AmBe	—
	SOURCE NO.	—	—	438	—
	SOURCE STRENGTH	—	—	1Ci	—
	SOURCE SPACING	—	—		—
SNGL. PT RESISTANCE		1.4"D x 2.5"L	—	1.1"D x 2.5"L	1.1"D x 2.5"L
RESISTIVITY		—	8" FOCUSED	—	—
SELF POTENTIAL		YES	—	YES	YES
TEMPERATURE		—	—	YES	—
DEVIATION		—	—	NO / YES	—
CALIPER		—	YES	—	—

CT-112 REV. 11-78



COMPU-LOG V3L7 PLOT 10-03-78

SR-1
BENDIX
S R SWELL
HOLE DIAMETER : 05.0

CAL STD CPS = 0097
PROBE # 9055 -033
TRUCK # 7664
APPL.#9 B
TILMAN

CAL RUN CPS = 0000
PROBE CAL BIAS = +00000
DATA: V3L5

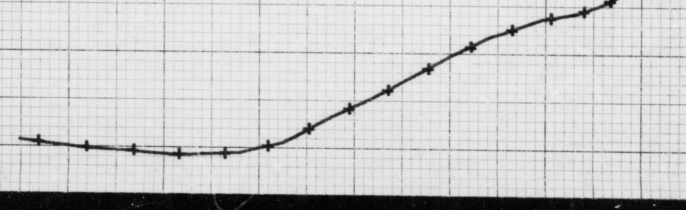
VERTICAL DEVIATION

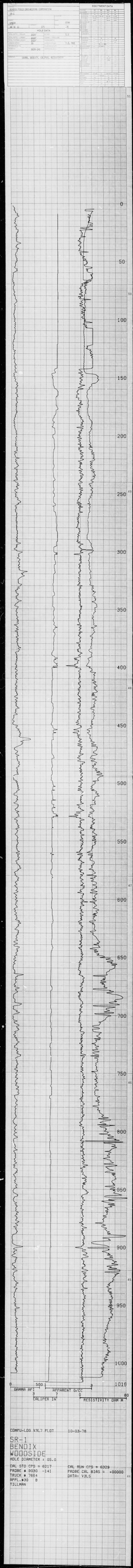
HOLE ID: SR-1

SCALE: 5 FT/IN
MAG DECL: 15.0
TRUE DEPTH: 1018. FT
AZIMUTH: 253.
DISTANCE: 34.1 FT

+ = 50 FOOT INCR
△ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑




0
50
100
150
200
250
300
350
400
450
500
550
600
650
700
750
800
850
900
950
1000
1018
500
0
GAMMA API
APPARENT G/CC
CALIPER IN
RESISTIVITY OHM M
80
COMPU-LOG V.N.7 PLOT
10-03-78
SR-1
BENDIX
WOODSIDE
HOLE DIAMETER = 05.0
CAL STD CPS = 6217
PROBE # 8080 -241
TRUCK # 7684
APPL.#30 8
TILLMAN
CAL RUN CPS = 6329
PROBE CAL BIAS = +00000
DATA: V3LS

CENTURY GEOPHYSICAL CORPORATION

Tulsa, Oklahoma

OPERATOR	B. TILLMAN
DATE	10/03/78
UNIT NO.	7664
FIELD OFFICE	GRAND JUNCTION
COMPANY	BENDIX FIELD ENGINEERING CORPORATION
BOREHOLE	SR-1
AREA	
ELEVATION	
COUNTY	EMERY
STATE	UTAH
SECTION	NW SE 11
TOWNSHIP	17S
RANGE	13E

HOLE DATA

TOTAL DEPTH — DRILLER	1020'	BIT SIZE	5.0
TOTAL DEPTH — LOGGER	1018'	CASING — TYPE & SIZE	
TOTAL FOOTAGE LOGGED	1018'	CASING DEPTH	
LOGGING SPEED	30	BOREHOLE FLUID	T.D. MUD
REFERENCE LEVEL		FLUID RESISTIVITY	@ °F
PROBE NO.	9030-141	SOFTWARE LEVEL	

REMARKS: GAMMA, DENSITY, CALIPER, RESISTIVITY

EQUIPMENT DATA

		9010	9030	9060/55	9060
PROBE MODEL		9010	9030	9060/55	9060
PROBE DIAMETER		1.87"	2.0"	1.87"	1.4"
NATURAL GAMMA	DETECTOR TYPE	NaI	NaI	NaI	NaI
	DETECTOR SIZE	.875" x 1.25"	1.25" x 4.5"	.875" x 4.0"	.5" x 3.0"
	STD. K FACTOR	1.59 x 10⁻⁵	—	.558 x 10⁻⁵	1.67 x 10⁻⁵
	STD. DEADTIME	1 μsec	—	1.18 μsec	1 μsec
	CALIB. MODEL LOC.		—		
	CALIB DATE		—		
	K FACTOR		—		
	DEADTIME		—		
	TEST READING		—		
	WATER FACTOR		—		
	CASING FACTOR		—		
DENSITY	DETECTOR TYPE	—	NaI	—	NaI
	DETECTOR SIZE	—	.5" x 1.5"	—	.5" x 3.0"
	SOURCE TYPE	—	Cs137	—	Cs137
	SOURCE NO.	—	VL-1-184	—	
	SOURCE STRENGTH	—	125mCi	—	
	SOURCE SPACING	—		—	
NEUTRON	DETECTOR TYPE	—	—	He3	—
	DETECTOR SIZE	—	—	1.0" x 6.0"	—
	SOURCE TYPE	—	—	AmBe	—
	SOURCE NO.	—	—		—
	SOURCE STRENGTH	—	—		—
	SOURCE SPACING	—	—		—
SNGL. PT. RESISTANCE		1.4"D x 2.5"L	—	1.4"D x 2.5"L	1.1"D x 2.5"L
RESISTIVITY		—	6" FOCUSED	—	—
SELF POTENTIAL		YES	—	YES	YES
TEMPERATURE		—	—	YES	—
DEVIATION		—	—	NO / YES	—
CALIPER		—	YES	—	—

COMPU-LOG V3L7 PLOT 10-03-78

SR-1
BENDIX
WOODSIDE
HOLE DIAMETER : 05.0

CAL STD CPS = 6217
PROBE # 9030 -141
TRUCK # 7664
APPL.#30 B
TILLMAN

CAL RUN CPS = 6329
PROBE CAL BIAS = +00000
DATA: V3L5

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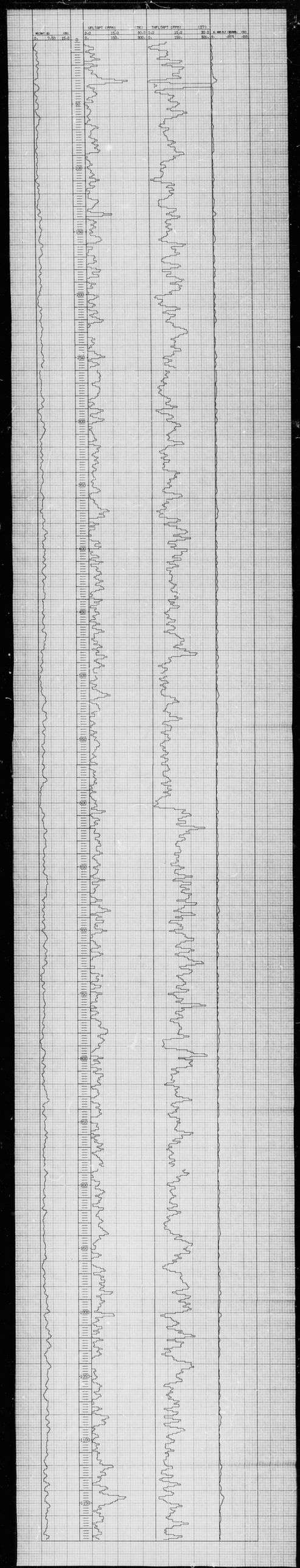

WEIGHT (B)
(IN)
0.
7.50
15.0
UPLIFT (PPM)
0.
2.0
15.0
150.
0
50
100
150
200
250
300
350
400
450
500
550
600
650
700
750
800
850
900
950
1000
1050
1100
1150
(TP)
THICKNESS (PPM)
30.0
0.
300.
0.
15.0
150.
(CT)
30.0
0.
300.
0.
R. MARKER (BOMB)
(IN)
-.075
-.265

WELL	SR-2	LOCATION	
FIELD	SAN RAFAEL SWELL	STATE	UTAH
COUNTY	EMERY	PERMANENT DATUM	GL
SECTION	TOWNSHIP	RANGE	
API NO.	950		11E

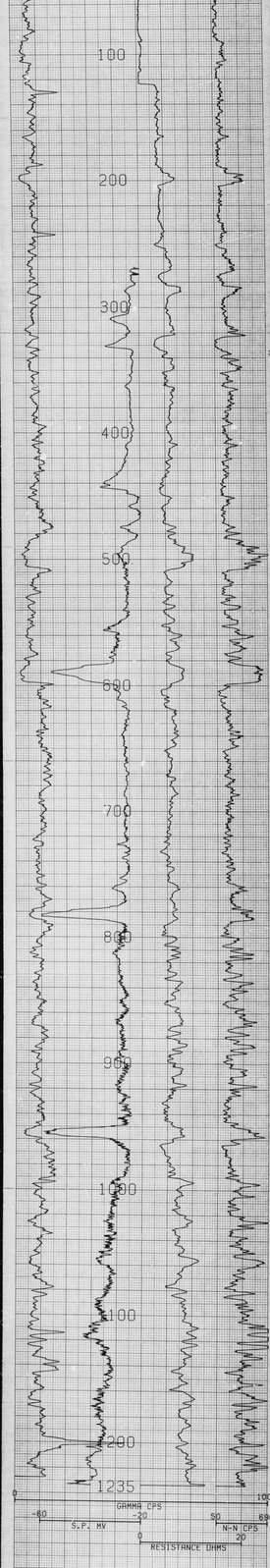
HOLE DATA

TOTAL DEPTH - DRILLER	1260	BIT SIZE	5 1/4
TOTAL DEPTH - LOGGER	1235	CASING - TYPE & SIZE	
TOTAL DEPTH LOGGED	1235	CASING DEPTH	
LOGGING UNIT	63	MUD TYPE	116 Aqua Gel
TEMPERATURE (DEG. F)	64	FLUID RESISTIVITY	@
TRUCK NO.	905-81	SOFTWARE LEVEL	

REMARKS: GAMMA, SP, RESISTANCE, NEUTRAL DEPTH, TEMP.
RESISTIVITY SCALE = 300 OHMS

RECORDED BY					
WITNESSED BY					
RUN NO.					
DATE					
TYPE LOG					
TOP LOGGED INTERVAL					
BOTTOM LOGGED INTERVAL					
CASING - DRILLER					
CASING - LOGGER					
BIT SIZE					
TYPE FLUID IN HOLE					
DENSITY					
VISCOSITY					
PH					
FLUID LOSS					
SOURCE OF SAMPLE					
RM @ MEAS. TEMP.					
RMF @ MEAS. TEMP.					
RMC @ MEAS. TEMP.					
SOURCE RMF & RMC					
RM @ BHT					
TIME CIRC.					
TIME LOGGER ON BOTTOM					
MAX. REC. TEMP.					
EQUIP. LOCATION					
RECORDED BY					
WITNESSED BY					

RUN NO.	PASS NO.	MATRIX	MATRIX DENSITY	HOLE SIZE
TOP LOGGED INTERVAL				
BOTTOM LOGGED INTERVAL				
CASING - DRILLER				
CASING - LOGGER				
BIT SIZE				
TYPE FLUID IN HOLE				
DENSITY				
VISCOSITY				
PH				
FLUID LOSS				
SOURCE OF SAMPLE				
RM @ MEAS. TEMP.				
RMF @ MEAS. TEMP.				
RMC @ MEAS. TEMP.				
SOURCE RMF & RMC				
RM @ BHT				
TIME CIRC.				
TIME LOGGER ON BOTTOM				
MAX. REC. TEMP.				
EQUIP. LOCATION				
RECORDED BY				
WITNESSED BY				



GAMMA CPS
-60 -20 50 690
S.P. MV
N-N CPS
0 20
RESISTANCE OHMS

COMPU-LOG V3L7 PLOT 11-08-78

SR-2
BENDIX
SAN RAFAEL SWELL

HOLE DIAMETER : 05.3

CAL STD CPS = 0097
PROBE # 9055 -081
TRUCK # 7684
RPPL.#5 18
PETER GREGSON

CAL RUN CPS = 0000
PROBE CAL BIAS = +00000
DATA: V3L5

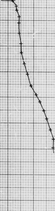
VERTICAL DEVIATION

COMPULOG V3L1 DEVIATION
HOLE ID: SR-2

SCALE: 3 FT/IN
MAG DECL: 15.0
TRUE DEPTH: 1236. FT
AZIMUTH: 164.
DISTANCE: 19.2 FT

+ = 50 FOOT INCR
△ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH



HOLE DATA

TOTAL DEPTH — DRILLER	1260′	BIT SIZE	5 1/4″
TOTAL DEPTH — LOGGER	1227′	CASING — TYPE & SIZE	
TOTAL FOOTAGE LOGGED	1227′	CASING DEPTH	116′
LOGGING SPEED	30	BOREHOLE FLUID	H_2O & MUD
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	@ °F
PROBE NO.	9030-141	SOFTWARE LEVEL	

REMARKS: GAMMA, CALIPER, DENSITY, RESISTIVITY

NAT	TEST READING		—		
	WATER FACTOR		—		
	CASING FACTOR		—		
DENSITY	DETECTOR TYPE	—	NaI	—	NaI
	DETECTOR SIZE	—	.5″ x 1.5″	—	.5″ x 1.0″
	SOURCE TYPE	—	Cs137	—	Cs137
	SOURCE NO.	—	VL-1-134	—	
	SOURCE STRENGTH	—	125mCi	—	
	SOURCE SPACING	—		—	
NEUTRON	DETECTOR TYPE	—	—	He3	—
	DETECTOR SIZE	—	—	1.0″ x 6.0″	—
	SOURCE TYPE	—	—	AmBe	—
	SOURCE NO.	—	—		—
	SOURCE STRENGTH	—	—		—
	SOURCE SPACING	—	—		—
	SNGL PT RESISTANCE	1.4″D x 2.5″L	—	1.4″D x 2.5″L	1.1″D x 2.5″L
	RESISTIVITY	—	6″ FOCUSED	—	—
	SELF POTENTIAL	YES	—	YES	YES
	TEMPERATURE	—	—	YES	—
	DEVIATION	—	—	NO / YES	—
	CALIPER	—	YES	—	—

COMPU-LOG V3L3 11-08-78

SR-2

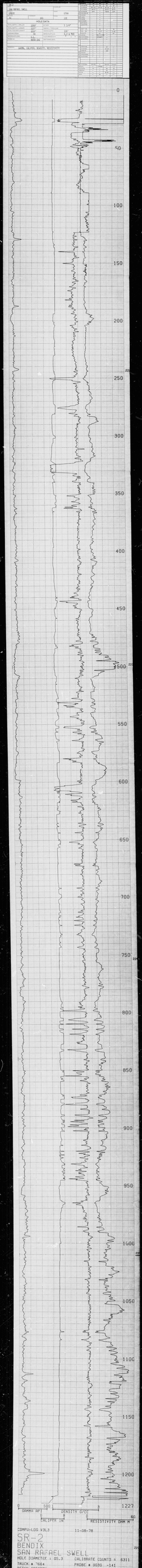
BENDIX

SAN RAFAEL SWELL

HOLE DIAMETER : 05.3 CALIBRATE COUNTS = 6311

TRUCK # 7664 PROBE # 9030 -141

PETER GREGSON


SR-2
SAN RAFAEL SWELL
HOLE DIAMETER = 05.3
TRUCK # 7664
0
50
100
150
200
250
300
350
400
450
500
550
600
650
700
750
800
850
900
950
1000
1050
1100
1150
1200
1227
GAMMA RAY
DENSITY G/CC
RESISTIVITY OHM M

COUNTY		STATE
EMERY		UTAH
SECTION	TOWNSHIP	RANGE
32	17S	13E

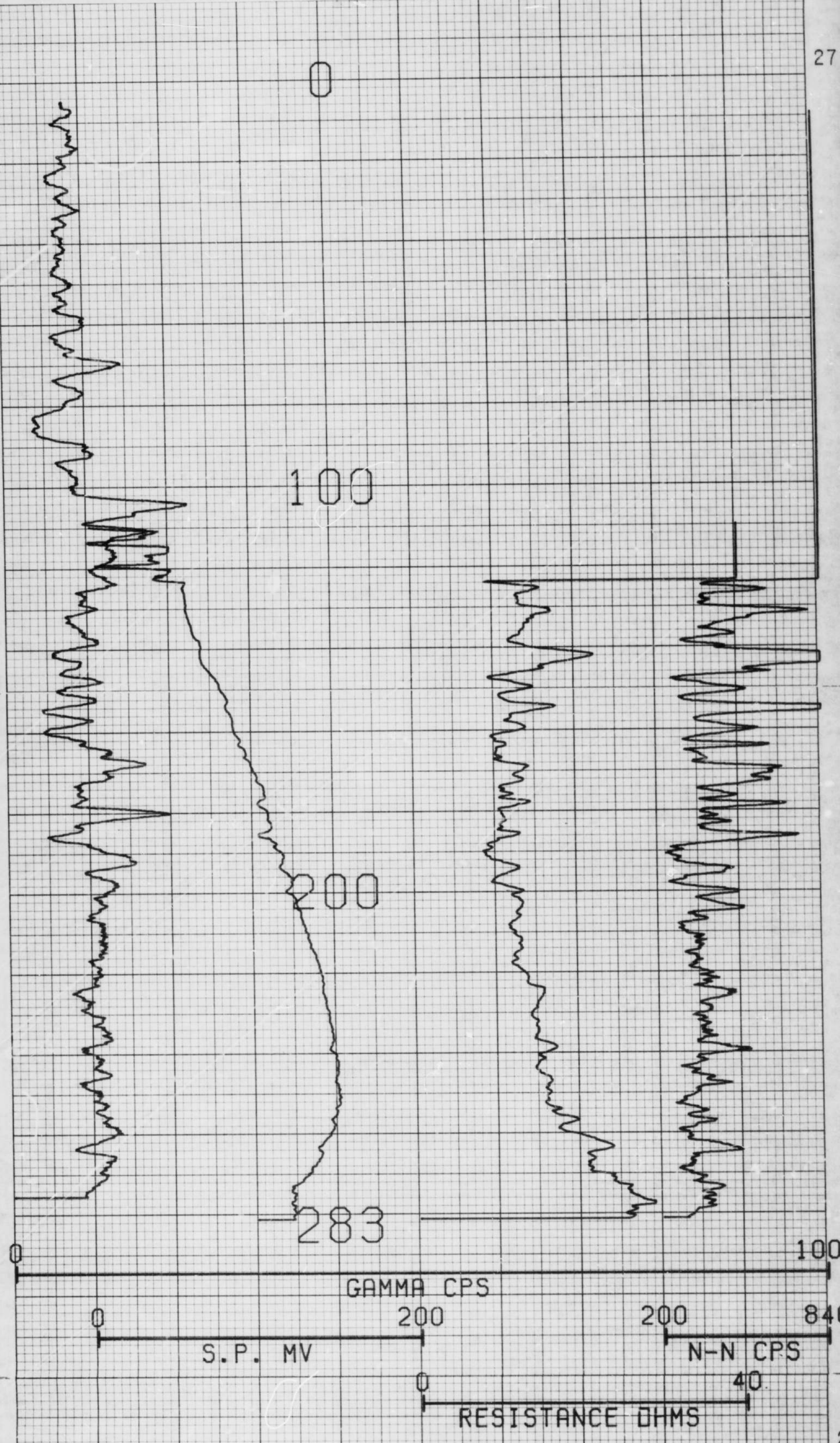
HOLE DATA

TOTAL DEPTH — DRILLER	285	BIT SIZE	5.0
TOTAL DEPTH — LOGGER	283	CASING — TYPE & SIZE	
TOTAL FOOTAGE LOGGED	283	CASING DEPTH	
LOGGING SPEED	55	BOREHOLE FLUID	MUD
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	@ °F
PROBE NO.	9055-81	SOFTWARE LEVEL	

REMARKS: GAMMA, SP, RES., NEUTRON, DEVIATION

NATURAL GAMMA	STD. DEADTIME	[illegible]	[illegible]	[illegible]	[illegible]	
	CALIB. MODEL LOC.		—			
	CALIB DATE		—			
	K-FACTOR		—	$.585x10^{-5}$		
	DEADTIME		—	1usec		
	TEST READING		—			
	WATER FACTOR		—	1.123		
	CASING FACTOR		—			
DENSITY	DETECTOR TYPE	—	NaI	—	NaI	
	DETECTOR SIZE	—	5" x 1.5"	—	5" x 3.0"	
	SOURCE TYPE	—	Cs^{137}	—	Cs^{137}	
	SOURCE NO.	—		—		
	SOURCE STRENGTH	—		—		
	SOURCE SPACING	—		—		
NEUTRON	DETECTOR TYPE	—	—	He^3	—	
	DETECTOR SIZE	—	—	1.0" x 6.0"	—	
	SOURCE TYPE	—	—	AmBe	—	
	SOURCE NO.	—	—	438	—	
	SOURCE STRENGTH	—	—	1Ci	—	
	SOURCE SPACING	—	—		—	
	SNGL. PT RESISTANCE	1.4"D x 2.5"L	—	1.4"D x 2.5"L	1.1"D x 2.5"L	
	RESISTIVITY	—	8" FOCUSED	—	---	
	SELF POTENTIAL	YES	—	YES	YES	
	TEMPERATURE	—	—	YES	—	
	DEVIATION	—	—	NO / YES	—	
	CALIPER	—	YES	—	—	

CT-112 REV. 11-78



COMPU-LOG V3L7 PLOT 10-13-78

SR-3
BENDIX
NE NW 32,T17S,R11E

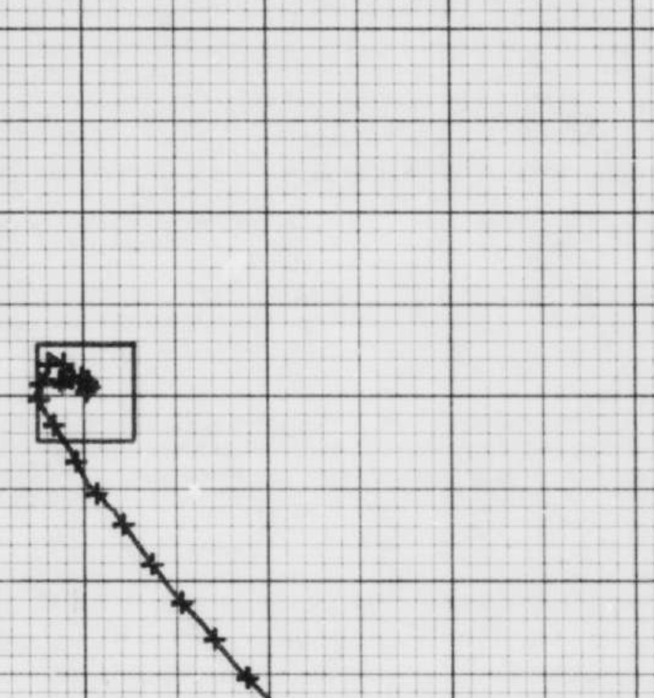
HOLE DIAMETER : 05.0

CAL STD CPS = 0097 CAL RUN CPS = 0000
PROBE # 9055 -081 PROBE CAL BIAS = +00000
TRUCK # 7664 DATA: V3L5
APPL.#5 B
TILLMAN

VERTICAL DEVIATION

COMPULOG V3L1 DEVIATION
HOLE ID: SR-3

SCALE: 1 FT/IN + = 10 FOOT INCR
MAG DECL: 15.0 Δ = TOP OF ZONE
TRUE DEPTH: 283. FT ◇ = BOTTOM OF ZONE
AZIMUTH: 142.
DISTANCE: 4.6 FT TRUE NORTH ↑



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CENTURY GEOPHYSICAL CORPORATION
Tulsa, Oklahoma

OPERATOR: B. TILLMAN	DATE: 10/14/78
UNIT NO.: 7664	FIELD OFFICE: GRAND JUNCTION

COMPANY: BENDIX FIELD ENGINEERING CORPORATION
BOREHOLE: SR-3
AREA:
ELEVATION:
COUNTY: EMERY
STATE: UTAH
SECTION: 32 TOWNSHIP: 17S RANGE: 13E

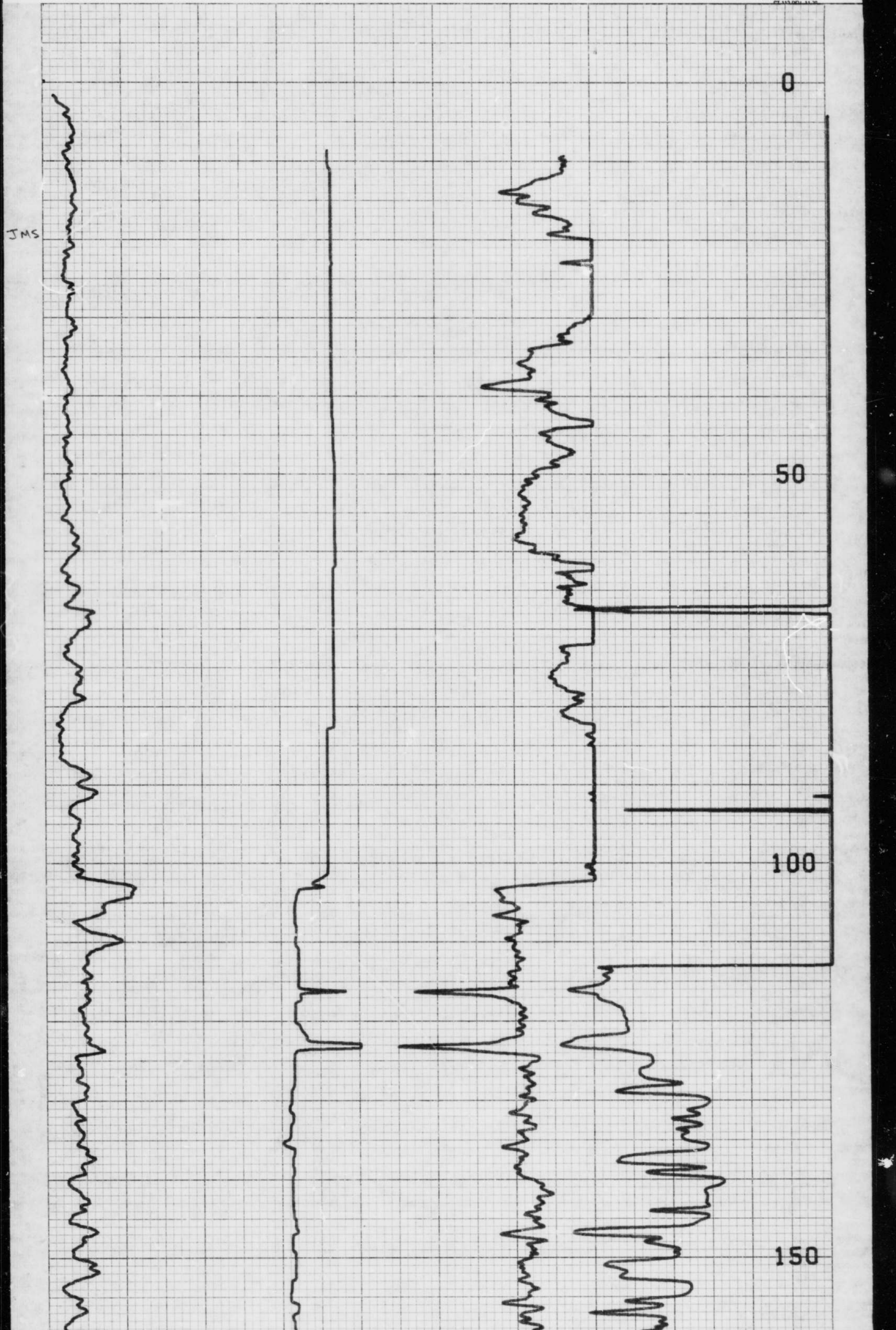
HOLE DATA

TOTAL DEPTH — DRILLER	285'	BIT SIZE	5.0
TOTAL DEPTH — LOGGER	282'	CASING — TYPE & SIZE	
TOTAL FOOTAGE LOGGED	282'	CASING DEPTH	
LOGGING SPEED	30	BOREHOLE FLUID	MUD
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	@ °F
PROBE NO.	9030-141	SOFTWARE LEVEL	

REMARKS: GAMMA, CALIPER, DENSITY, RESISTIVITY

EQUIPMENT DATA

		9010	9030	9050/55	9060	
PROBE MODEL		9010	9030	9050/55	9060	
PROBE DIAMETER		1.87"	2.0"	1.87"	1.4"	
NATURAL GAMMA	DETECTOR TYPE	NaI	NaI	NaI	NaI	
	DETECTOR SIZE	.875" x 1.25"	1.25" x 4.5"	.875" x 4.0"	.5" x 3.0"	
	STD. K FACTOR	1.50 x 10⁻⁵	—	.558 x 10⁻⁵	1.62 x 10⁻⁵	
	STD. DEADTIME	1 μsec	—	1.18 μsec	1 μsec	
	CALIB. MODEL LOC.		—			
	CALIB DATE		—			
	K FACTOR		—			
	DEADTIME		—			
	TEST READING		—			
	WATER FACTOR		—			
	CASING FACTOR		—			
DENSITY	DETECTOR TYPE	—	NaI	—	NaI	
	DETECTOR SIZE	—	.5" x 1.5"	—	.5" x 3.0"	
	SOURCE TYPE	—	Cs^{137}	—	Cs^{137}	
	SOURCE NO.	—	VL-1-184	—		
	SOURCE STRENGTH	—	125mCi	—		
	SOURCE SPACING	—		—		
NEUTRON	DETECTOR TYPE	—	—	He^3	—	
	DETECTOR SIZE	—	—	1.0" x 6.0"	—	
	SOURCE TYPE	—	—	AmBe	—	
	SOURCE NO.	—	—		—	
	SOURCE STRENGTH	—	—		—	
	SOURCE SPACING	—	—		—	
SNGL. PT RESISTANCE		1.4"D x 2.5"L	—	1.4"D x 2.5"L	1.1"D x 2.5"L	
RESISTIVITY		—	8" FOCUSED	—	—	
SELF POTENTIAL		YES	—	YES	YES	
TEMPERATURE		—	—	YES	—	
DEVIATION		—	—	NO / YES	—	
CALIPER		—	YES	—	—	



COMPU-LOG V3L1 10-13-78

SR-3

BENDIX

SR SWELL

HOLE DIAMETER : 05.0 CALIBRATE COUNTS = 6293
TRUCK # 7664 PROBE # 9030-141
TILLMAN

HOLE SR-3

BFEC PROJ # 20772138
LOG REDUCTION PROJ # 79001

AREA : SAN RAFAEL HOLE 3
REMARKS: KUT CONC. (FILTERED)

Bendix Field Engineering Corporation
Grand Junction Operations

Gamma, SP, Res, Neutron

Date 6-15-78
Truck No. 1815
Operator Kuykendall

COMPANY Bendix
HOLE SR-4 CLAIM
PROPERTY Jorgenson
AREA San Rafael
COUNTY Emery STATE Utah
LOCATION
Other Services KUT
SEC 18 TWP 19S RGE 9E
Permanent Datum GL Elev.
Log Measured From GL Ft. Above Perm. Datum
Drilling Measured From GL Elev.

EQUIPMENT DATA

PROBE NO. 9055-25 PROBE DIAM. 2

NUCLEAR

Run No.	1	1		
Log Type	Gamma	Neutron		
Detector	NaI	He3		
Detector Size	7/8 x 4			
Source Type		AmBe		
Source Strength		1 Ci		
Source Spacing		17"		
Amp. Gain				
Disc. Level	Analog	Digital		
K-Factor	5.44×10^{-6}			
Deadtime	.94 μsec	.91 μ sec		
Casing Factor				

ELECTRICAL

Run No.	1	1		
Log Type	SP	Res		
Normal Spacing		Single Pt.		
SP Reference	Mud Pit			
SP Polarity	+			
Bridle Length				

CALIPER

Run No.				
Device Type				
Tool Position				
Minimum Span				
Maximum Span				

OTHER

Run No.	1	1		
Log Type	Temp	V.Dev.		

CASING RECORD

Size, Wgt.	From	To
6"	0	63

Depth Driller	2063
Depth Logger	2063
Type Fluid in Hole	Mud
Salinity ppm	
pH and Fluid Loss	
Density Lb/Gal.	
Fluid Level	165'
Remarks	

FOLD HERE

BORE HOLE RECORD

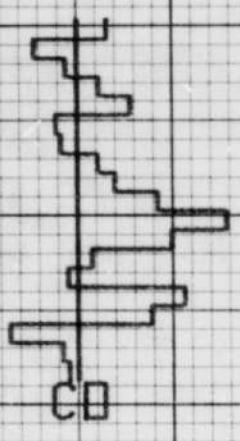
Bit Size	From	To
5 5/8"	0	2063'

LOGGING DATA

Run No.	Log Type	Depths From	Depths To	Footage Logged	Speed Ft./Min.	Depth Scale	Sens. Units/Div.	T.C. Sec.	Zero Div. L or R	Digital Interval	Digital Time
1	Gamma	2058	4	2054	55	20'/in	100 cps		0		
	SP	2063	165	1898	55	20'/in	50 mV		3R		
	Res	2063	165	1898	55	20'/in	10 ohms		5R		
	Neutron	2063	9	2054	55	20'/in	500 cps		8R		

ORE GRADE CALCULATION

DEPTH SCALE = 5 FEET/INCH



I 0.5 FT / 0.007 %
I 1.0 FT / 0.007 %
I 4.5 FT / 0.008 %

.01 % eU_3O_8/INCH

CONVERGENCE FACTOR = 0.980

VERTICAL DEVIATION

HOLE SR-4

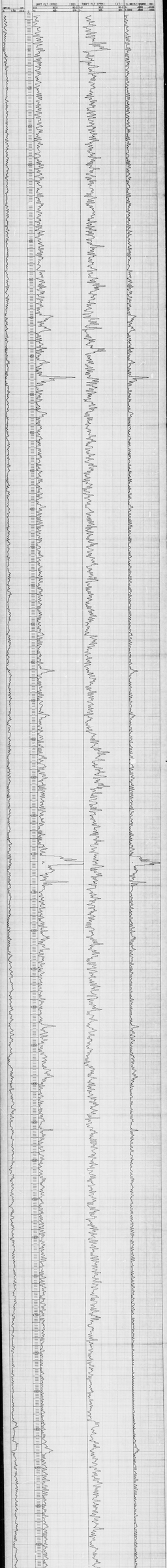
SCALE: 5 FT/IN
MAG DECL: 16.0
TRUE DEPTH: 2064. FT
AZIMUTH: 143.
DISTANCE: 35.5 FT

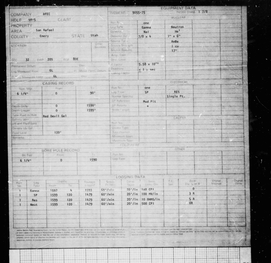
+ = 100 FOOT INCR
△ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑

HOLE SR-4
AREA : SAN RAFEL SWELL
REMARKS: FLT RUT CONC & S. GRAV.

BFEC PROJ # 20772109
USI REDUCTION PROJ # 79001





COMPU-LOG YZ-SLS DATE 08-14-78 HOLE #SR-5

GAMMA S.P. RES. NEUTRON

0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600

100 CPI 100 MV/IN 10 OHMS/IN 500 CPI

GAMMA S.P. RES. NEUTRON

SR-5

NICHOLS

VERTICAL DEVIATION

HOLE ID: SR-5

SCALE: 5 FT/IN
MAG DECL: 15.0
TRUE DEPTH: 1589. FT
AZIMUTH: 140.
DISTANCE: 37.6 FT

+ = 100 FOOT INCR
^ = TOP OF ZONE
v = BOTTOM OF ZONE

TRUE NORTH ↑

CENTURY GEOPHYSICAL CORPORATION
Tulsa, Oklahoma

OPERATOR	B. TILLMAN
DATE	10/27/78
UNIT NO.	7664
FIELD OFFICE	GRAND JUNCTION
COMPANY	BENDIX FIELD ENGINEERING CORPORATION
BOREHOLE	SR-11
AREA	SAN RAFAEL SWELL
ELEVATION	
COUNTY	EMERY
STATE	UTAH
SECTION	32
TOWNSHIP	18S
RANGE	10E

HOLE DATA

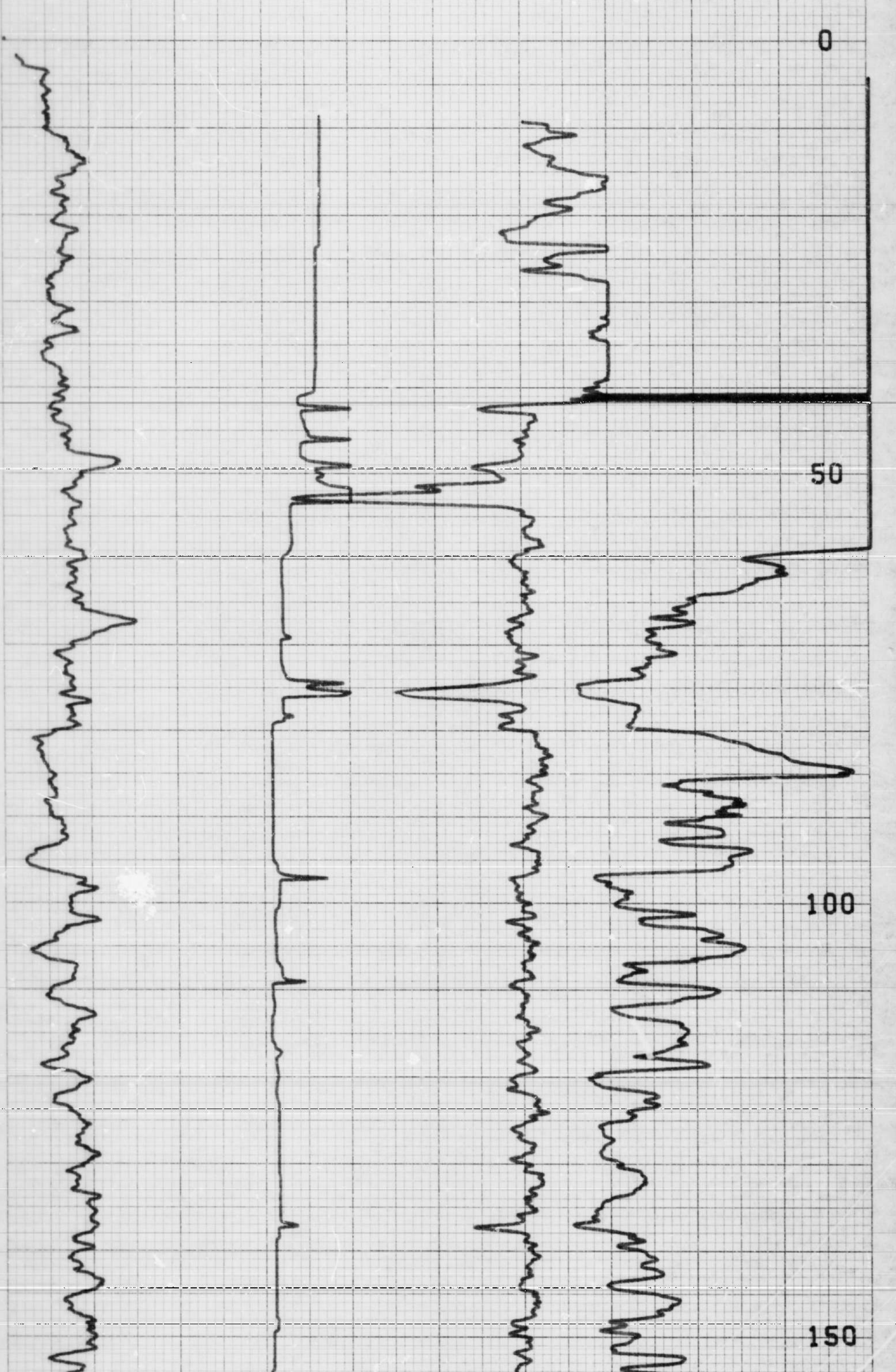
TOTAL DEPTH — DRILLER	300	BIT SIZE	5 1/8
TOTAL DEPTH — LOGGER	278	CASING — TYPE & SIZE	
TOTAL FOOTAGE LOGGED	278	CASING DEPTH	
LOGGING SPEED	30	BOREHOLE FLUID	MUD
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	@ °F
PROBE NO.	9030-141	SOFTWARE LEVEL	

REMARKS: GAMMA, DENSITY, RESISTIVITY, CALIPER

EQUIPMENT DATA

		9010	9030	9050/55	9060
	PROBE MODEL	9010	9030	9050/55	9060
	PROBE DIAMETER	1.87"	2.0"	1.87"	1.4"
NATURAL GAMMA	DETECTOR TYPE	NaI	NaI	NaI	NaI
	DETECTOR SIZE	.675" x 1.25"	1.25" x 4.5"	.875" x 4.0"	.5" x 3.0"
	STD. K FACTOR	1.59 x 10⁻⁵	—	.568 x 10⁻⁵	1.62 x 10⁻⁵
	STD. DEADTIME	1 μsec	—	1.18 μsec	1 μsec
	CALIB. MODEL LOC.		—		
	CALIB DATE		—		
	K FACTOR		—		
	DEADTIME		—		
	TEST READING		—		
	WATER FACTOR		—		
	CASING FACTOR		—		
DENSITY	DETECTOR TYPE	—	NaI	—	NaI
	DETECTOR SIZE	—	.5" x 1.5"	—	.5" x 3.0"
	SOURCE TYPE	—	Cs^{137}	—	Cs^{137}
	SOURCE NO.	—	VL-1-184	—	
	SOURCE STRENGTH	—	125mci	—	
	SOURCE SPACING	—		—	
NEUTRON	DETECTOR TYPE	—	—	He^3	—
	DETECTOR SIZE	—	—	1.0" x 6.0"	—
	SOURCE TYPE	—	—	AmBe	—
	SOURCE NO.	—	—		—
	SOURCE STRENGTH	—	—		—
	SOURCE SPACING	—	—		—
	SNGL. PT RESISTANCE	1.4"D x 2.5"L	—	1.4"D x 2.5"L	1.1"D x 2.5"L
	RESISTIVITY	—	6" FOCUSED	—	—
	SELF POTENTIAL	YES	—	YES	YES
	TEMPERATURE	—	—	YES	—
	DEVIATION	—	—	NO / YES	—
	CALIPER	—	YES	—	—

CT-112 REV. 11 78



COMPU-LOG V3L1 10-27-78

SR-11

BENDIX
SR SWELL

HOLE DIAMETER : 05.1 CALIBRATE COUNTS = 6300
TRUCK # 7664 PROBE # 9030-141
TILLMAN

CENTURY GEOPHYSICAL CORPORATION

Tulsa, Oklahoma

COMPANY	BENDIX FIELD ENGINEERING CORPORATION
BOREHOLE	SR-11
AREA	SAN RAFAEL SWELL
COUNTY	EMERY
STATE	UTAH
SECTION	32
TOWNSHIP	18S
RANGE	10E
ELEVATION	

HOLE DATA

TOTAL DEPTH — DRILLER	300	BIT SIZE	5 1/8
TOTAL DEPTH — LOGGER		CASING — TYPE & SIZE	
TOTAL FOOTAGE LOGGED	273	CASING DEPTH	
LOGGING SPEED		BOREHOLE FLUID	MUD
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	@ °F
PROBE NO.	9055	SOFTWARE LEVEL	

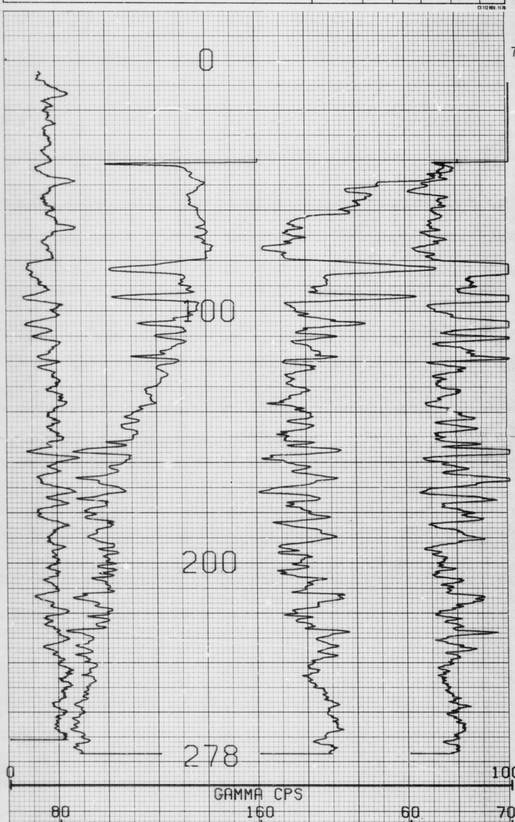
REMARKS: GAMMA, SP, RESISTANCE, NEUTRON, TEMP., DRIFT

OPERATION	B. TILLMAN
DATE	10/27/78
UNIT NO.	7664
FIELD OFFICE	GRAND JUNCTION

EQUIPMENT DATA

	PROBE MODEL	9010	9008	9055/65	9060
	PROBE DIAMETER	1.65"	2.0"	1.65"	1.4"
NATURAL GAMMA	DETECTOR TYPE	NaI	NaI	NaI	NaI
	DETECTOR SIZE	.875" x 1.75"	1.25" x 4.5"	.875" x 4.5"	.5" x 2.0"
	CTES, K FACTOR	1.08 x 10⁻⁵	—	1.08 x 10⁻⁵	1.65 x 10⁻⁵
	CTES, DEAD TIME	3.5 μsec	—	1.75 μsec	3.5 μsec
	CALIB. MODEL LOC.		—		
	CALIB. DATE		—		
	K FACTOR	—	—	385x10⁻⁵	
	DEAD TIME	—	—	1u/sec	
	TEST READING	—	—		
	WATER FACTOR	—	—		
	CASING FACTOR	—	—		
NEUTRON	DETECTOR TYPE	—	NaI	—	NaI
	DETECTOR SIZE	—	1" x 1.5"	—	1" x 2.5"
	SOURCE TYPE	—	Cs¹³⁷	—	Cs¹³⁷
	SOURCE NO.	—		—	
	SOURCE STRENGTH	—		—	
	SOURCE SPACING	—		—	
	DETECTOR TYPE	—	—	He³	—
	DETECTOR SIZE	—	—	1.0" x 6.0"	—
	SOIL, LIMESTONE	—	—	Matrix	—
	SOURCE NO.	—	—		—
	SOURCE STRENGTH	—	—		—
	SOURCE SPACING	—	—		—
	SMALL PT. RESISTANCE	1.4"D x 2.0"L	—	1.4"D x 2.0"L	1.7"D x 2.0"L
	RESISTIVITY	—	F" RECORDED	—	—
	SELF POTENTIAL	YES	—	YES	YES
	TEMPERATURE	—	—	YES	—
	DEVIATION	—	—	MAG / YES	—
	CALIPER	—	YES	—	—

CS-132 REV. 11-76



76

0 1000

GAMMA CPS

80 160 60 700

S.P. MV N-N CPS

10 50

RESISTANCE OHMS

75

COMPU-LOG V3L7 PLOT 10-27-78

SR-11
BENDIX
S R SWELL
HOLE DIAMETER : 05.0

CAL STD CPS = 0097 CAL RUN CPS = 0000
PROBE # 9055 -081 PROBE CAL BIAS = +00000
TRUCK # 7664 DATA: V3L5
APPL.#5 B
TILMAN

VERTICAL DEVIATION

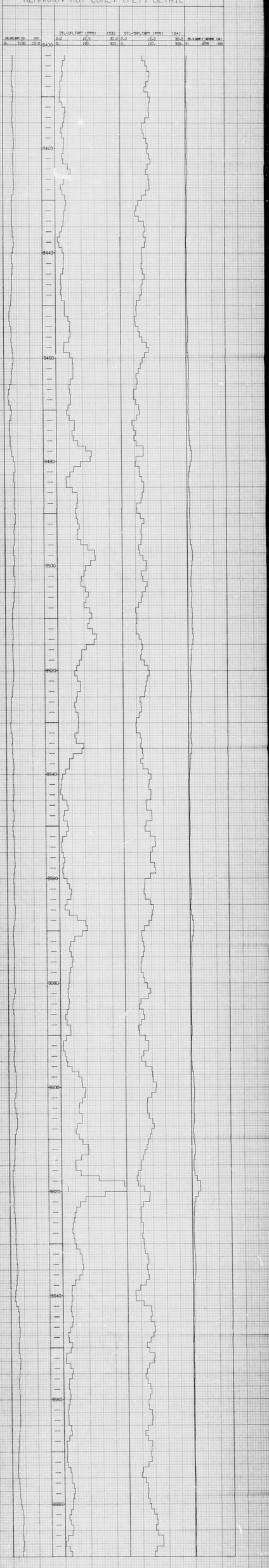
HOLE ID: SR-11

SCALE: 1 FT/IN
MAG DECL: 15.0
TRUE DEPTH: 278. FT
AZIMUTH: 27.
DISTANCE: 2.5 FT

+ = 10 FOOT INCR
Δ = TOP OF ZONE
o = BOTTOM OF ZONE

TRUE NORTH ↑

HOLE SR-12B
LOG REDUCTION PROJ = 79001
AREA : SAN RAFAEL HOLE 12B
REMARKS: KUT CONC. (FLT) DETAIL



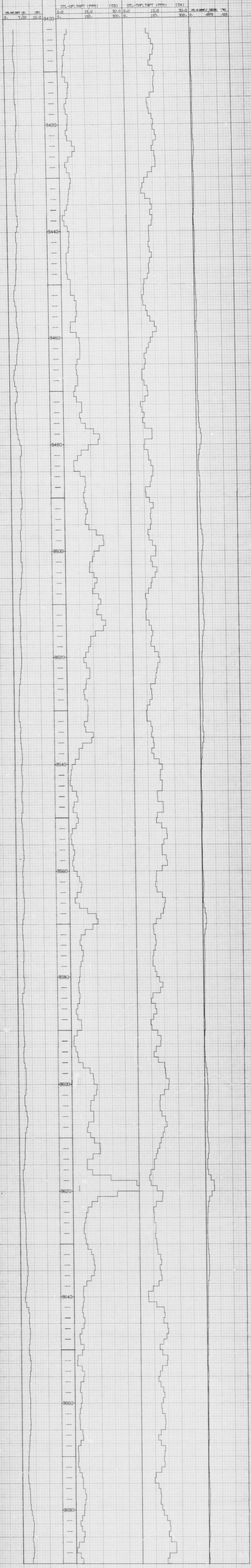
HOLE SR-12B

BFEC PROJ # 20772109

LOG REDUCTION PROJ # 79001

AREA : SAN RAFAEL HOLE 12B

REMARKS: KUT CONC. (FLT) DETAIL



Bendix Field Engineering Corporation
Grand Junction Operations

GAMMA, S.P., RES., NEUTRON

Date 3/9/1979
Truck No. 1824
Operator Pickering

COMPANY BENDIX
HOLE SR-12B CLAIM
PROPERTY State Lease
AREA San Rafael Swell
COUNTY Emery STATE Utah

LOCATION
SEC 16 TWP 23s RGE 7E
Permanent Datum GL Elev.
Log Measured From GL Ft. Above Perm. Datum
Drilling Measured From GL Elev.

Other Services

EQUIPMENT DATA

PROBE NO 9055-25 PROBE DIAM 1-7/8"

NUCLEAR

Run No.	1	
Log Type	Gamma	Neutron
Detector	NaI	He3
Detector Size	7/8X4"	
Source Type		AmBe
Source Strength		1Ci
Source Spacing		17"
Amp. Gain		
Disc. Level		
K-Factor	.550X 10^{-5}	
Deadtime	< 1 usec	
Casing Factor		

ELECTRICAL

Run No.	1	
Log Type	S.P.	Res.
Nominal Spacing		Single Pt.
SP Reference	Mud Pit	
SP Polarity		
Bridle Length		

CALIPER

Run No.	
Device Type	
Tool Position	
Minimum Span	
Maximum Span	

FOLD HERE

OTHER

Run No.	1	
Log Type	V. Dev.	Temp.

CASING RECORD

Size, Wgt	From	To
6-7/8	137	0

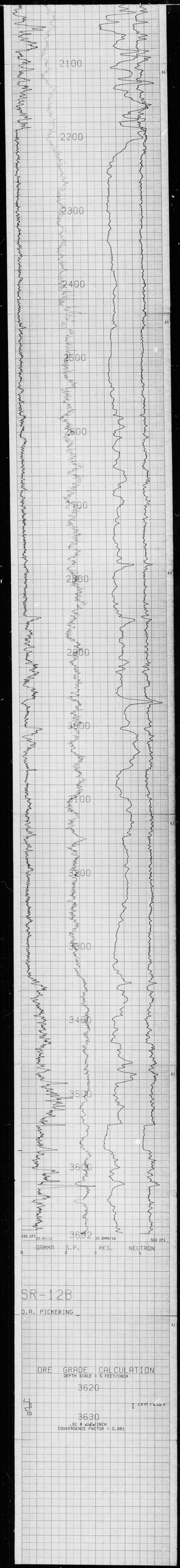
Depth-Driller	3700
Depth-Logger	3692
Type Fluid in Hole	Mud
Salinity ppm	
pH and Fluid Loss	
Density Lb/Gal	8.8
Fluid Level	
Remarks	

BORE HOLE RECORD

Bit Size	From	To
7"	140	0
5-3/4"	3692	140

LOGGING DATA

Run No.	Log Type	Depths From	Depths To	Footage Logged	Speed Ft./Min.	Depth Scale	Sens. Units/Div.	T.C. Sec.	Zero Div. L or R	Digital Interval	Digital Time
1	GAMMA	3692	1490	2202	60	20'/in	100CPI		L		
1	GAMMA	1490	0	1490	120	20'/in	100CPI		L		
1	S.P.	3692	1490	2202	60	20'/in	20mv/in		L		
1	S.P.	1490	0	1490	120	20'/in	20mv/in		L		
1	RES	3692	1490	2202	60	20'/in	10ohms/in		L		
1	RES	1490	0	1490	120	20'/in	10ohms/in		L		
1	Neutron	3692	1490	2202	60	20'/in	500CPI		L		
1	Neutron	1490	0	1490	120	20'/in	500CPI		L		


2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
100 CPS
25 MV/IN
10 OHMS/IN
500 CPS
GAMMA
S.P.
RES.
NEUTRON
SR-12B
D.A. PICKERING
ORE GRADE CALCULATION
DEPTH SCALE = 5 FEET/INCH
3620
3630
.01 # ACC/INCH
CONVERGENCE FACTOR = 0.981

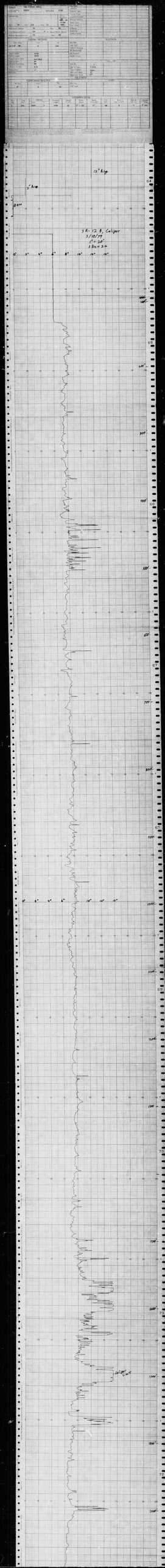
HOLE SR-12B

BFEC PROJ # 20772109

LOG REDUCTION PROJ # 79001

AREA : SAN RAFAEL HOLE 12B

REMARKS: KUT CONC. (FILTERED)


12" hop
3" hop
3.82"
3 K - 12 ft Caliper
3/10/79
1" = 20'
3 hr = 2 in
0'
2'
4'
6'
8'
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12'
14'
16'
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700'
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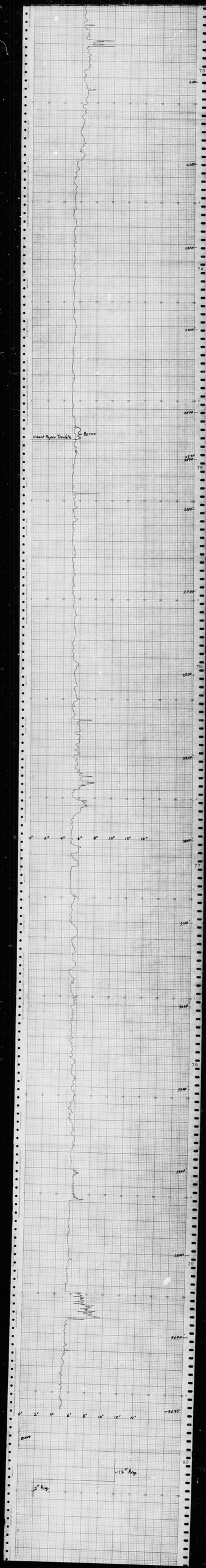


Chart Paper Trouble
Recon
0" 2" 4" 6" 8" 10" 12" 14"
12" Ring
5" Ring

PROPERTY	STATE LEASE
AREA	SAN RAFAEL SWELL
COUNTY	EMERY
STATE	UTAH

LOCATION: SEC 16 TWP 23S RGE 7E

Other Services: CAL, Resis., SP, NN, GR, TEMP

Permanent Datum GL Elev

Log Measured From GL 0 Ft. Above Perm. Datum

Drilling Measured From GL Elev

Run No.	
Log Type	
Detector	
Detector Size	
Source Type	
Source Strength	
Source Spacing	
Amp. Gain	
Disc. Level	
K-Factor	
Deadtime	
Casing Factor	

CASING RECORD

Size, Wgt.	From	To
6-7/8"	0'	140'

Depth-Driller	3700'
Depth-Logger	3686'
Type Fluid in Hole	Gel Mud
Salinity ppm	NA
pH and Fluid Loss	NA
Density Lb/Gal	8.8
Fluid Level	1'
Remarks	

ELECTRICAL

Run No.	
Log Type	
Normal Spacing	
SP Reference	
SP Polarity	
Bridle Length	

CALIPER

Run No.	
Device Type	
Tool Position	
Minimum Span	
Maximum Span	

FOLD HERE

BORE HOLE RECORD

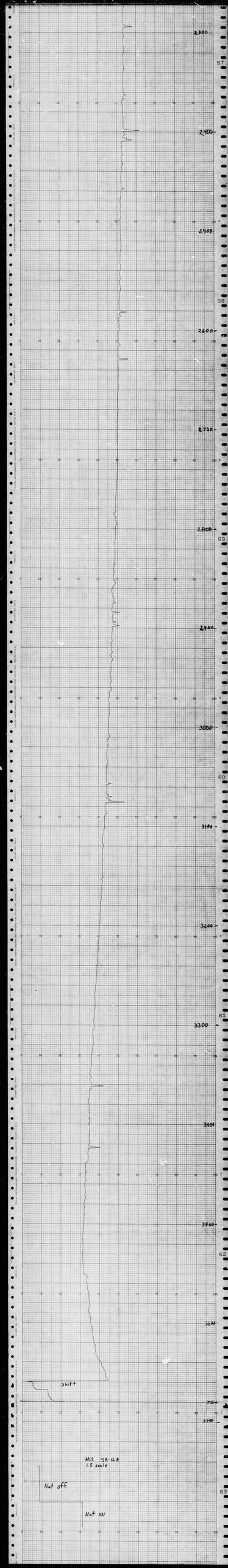
Bit Size	From	To
5"	0	TD

OTHER

Run No.	1
Log Type	Magnetic Susceptibility

LOGGING DATA

Run No.	Log Type	Depths From	Depths To	Footage Logged	Speed Ft./Min.	Depth Scale	Sens. Units/Div.	T.C. Sec.	Zero Div. L or R	Digital Interval	Digital Time
1	MS	3686	140	3546	50	1" = 20'	1.5		NA	NA	NA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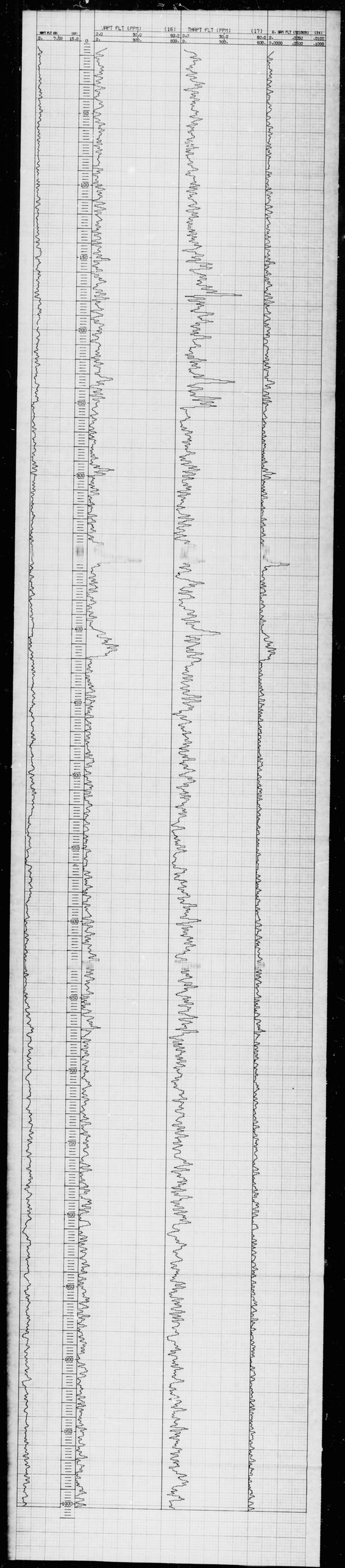
M.S. SR-12.B
1.5 scale
Nut off
Nut ON
63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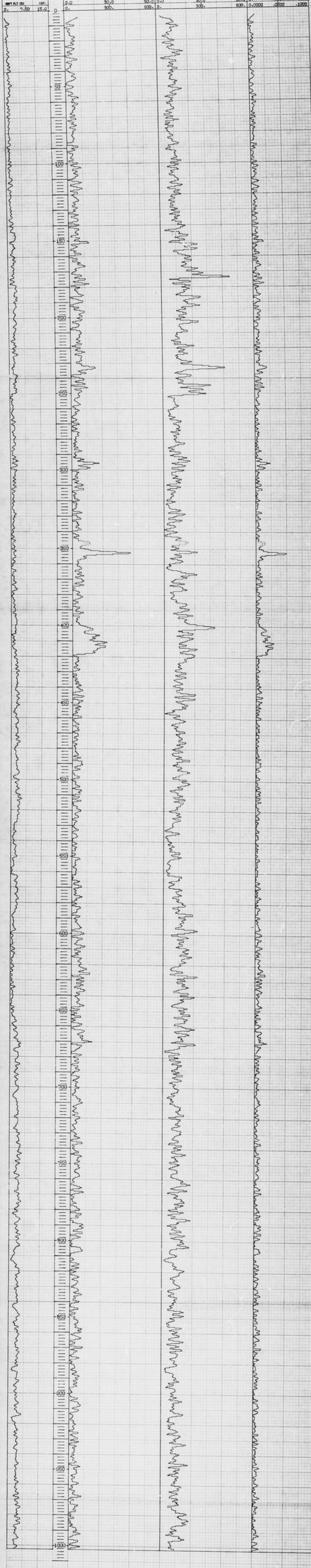
HOLE SR-13

BFEC PROJ # 20772109
LOG REDUCTION PROJ # 79D01

AREA : SAN RAFAEL SWELL
REMARKS: FLT KUT CONC & S. GAM.



HOLE	SR-13	CLAIM	
PROPERTY			
AREA	San Rafael Swell		
COUNTY	Emery	STATE	Utah

LOCATION — SEC 30 TWP 24S RGE 6E — Other Services

Permanent Datum GL Elev
Log Measured From GL Ft Above Perm Datum
Drilling Measured From GL Elev

CASING RECORD

Size (OD/ID), Wgt	From	To

BOREHOLE RECORD

Bit Size	From	To
4 3/4	1000	0

Depth-Driller	1000
Depth-Logger	1004
Type Fluid in Hole	MUD
Salinity ppm	
pH and Fluid Loss	
Density lb/gal	
Fluid Level	111'
Source of Sample	
Rm @ Meas Temp	
Rmf @ Meas Temp	
Rmc @ Meas Temp	
BHT	

NUCLEAR

Run No.		1	
Log Type		Gamma	Neutron
Detector		NaI	He^3
Detector Size		7/8 x 4"	
Source Type			Am Be
Source Strength			1 ci
Source Spacing			17"
Amp Gain			
Disc Level		Analog	Digital
K-Factor	Digital	5.59×10^{-6}	5.65×10^{-6}
	Analog	1.01 sec	.99 sec
Deadtime	Digital		
	Analog		
Date Calib			
Casing Factor			

ELECTRICAL

Run No.	
Log Type	
Normal Spacing	
SP Reference	
SP Offset	
Bridle Length	

CALIPER

Run No.	
Device Type	
Tool Position	
Minimum Span	
Maximum Span	

OTHER

Run No.	1	
Log Type	TEMP	V-D

Remarks:

TIME RECORD	Rig	Standby
Start		
End		
Total		

LOGGING DATA

Cart. Type No.	Trk	Log Type	Depths From	To	Footage Logged	Speed Ft/Min	Depth Scale	Sens Units/Div	Pen Zero Div L	Digital Time	Intrl	Remarks
1		GAMMA	999	4	995	55'	20'/IN	100 CPS	L			
1		SP	1004	111	893	55'	20'/IN	10 mV	L			
1		RES	1004	111	893	55'	20'/IN	10	L			
1		NEUTRON	1004	9	995	55"	20'/IN	200 CPS	L			

Total Footage Logged

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COMPU-LOG V3L7 PLOT 04-29-79

SR-13
BENDIX
SAN RAFAEL SWELL

HOLE DIAMETER : 04.8

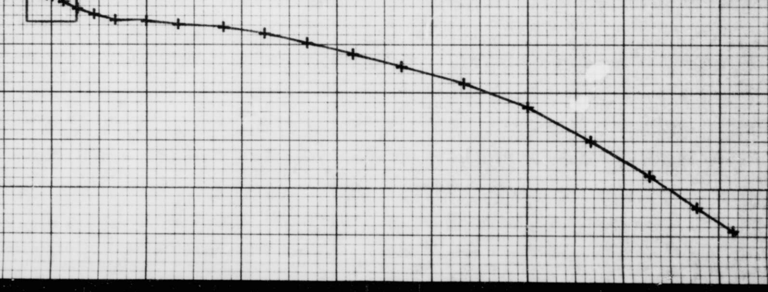
CAL STD CPS = 0097 CAL RUN CPS = 0000
PROBE # 9055 -066 PROBE CAL BIAS = +00000
TRUCK # 1815 DATA: V3L5 81
APPL.#5 B
TRAUB

VERTICAL DEVIATION

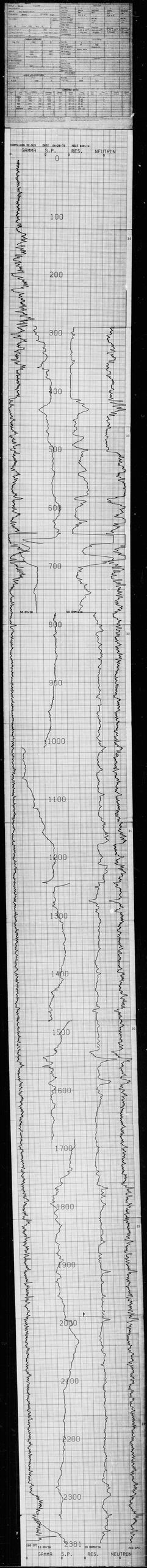
HOLE ID: SR-13

SCALE: 3 FT/IN
MAG DECL: 15.5
TRUE DEPTH: 1004. FT
AZIMUTH: 109.
DISTANCE: 22.6 FT

+ = 50 FOOT INCR
△ = TOP OF ZONE
◇ = BOTTOM OF ZONE
TRUE NORTH ↑



67


COMPUTALOG WELL LOG
DATE 04-28-78
RUN ONE
GAMMA
S.P.
RES.
NEUTRON
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
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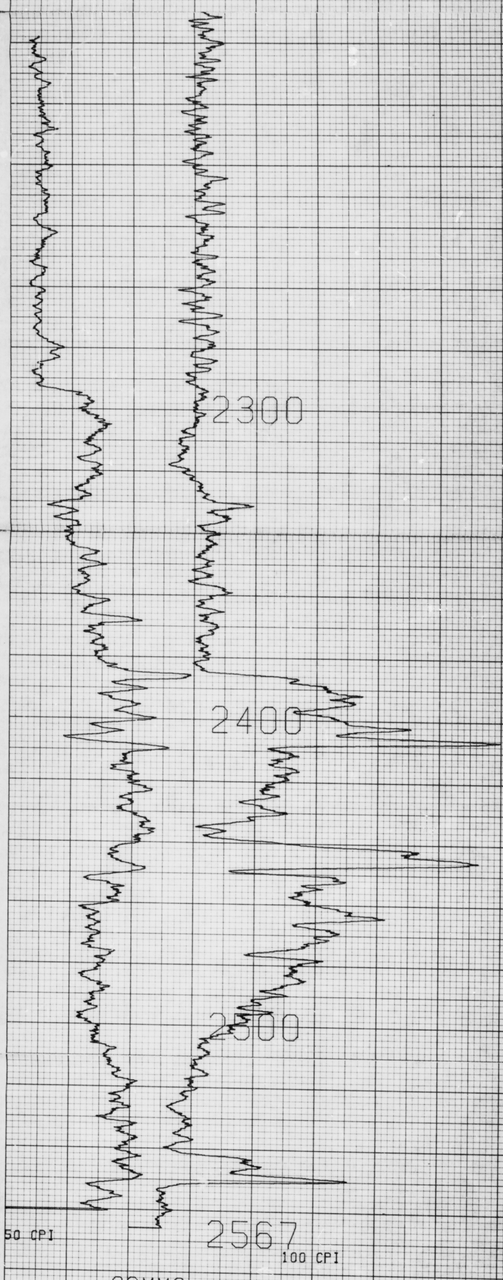
2381
50 MV/IN
50 OHMS/IN
100 CPS
20 CPS

RECKS



50 CPI
100 CPI
0
0
GAMMA
NEUTRON

SR-14

P. RECKS

27

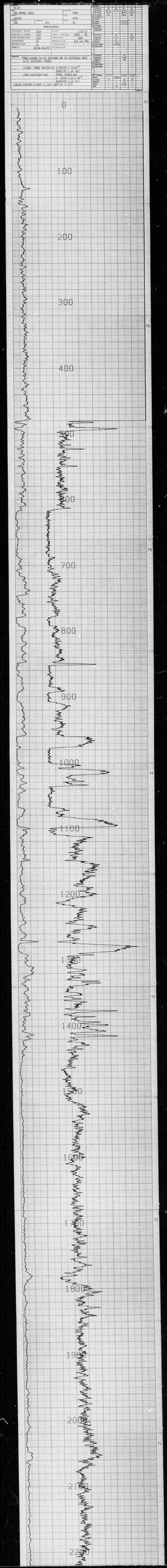
VERTICAL DEVIATION

HOLE ID: SR-14

SCALE: 30 FT/IN
MAG DECL: 15.5
TRUE DEPTH: 2364. FT
AZIMUTH: 113.
DISTANCE: 194.5 FT

+ = 100 FOOT INCR
△ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑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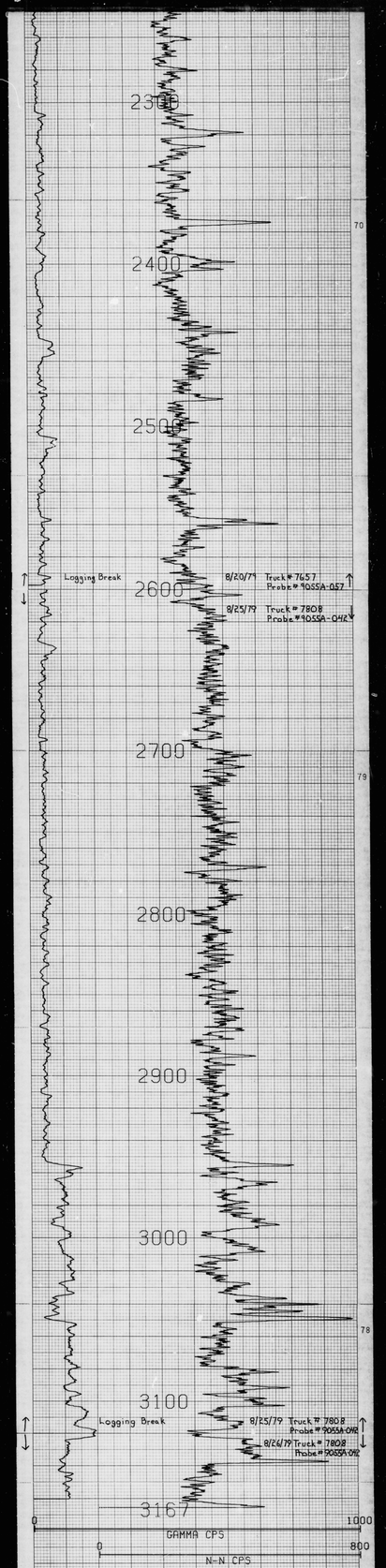


COMPU-LOG V3L7 PLOT 08-26-79

SR-23
BENDIX
SAN RAFAEL SWELL

HOLE DIAMETER : 06.0

CAL STD CPS = 0000	CAL RUN CPS = 0000
PROBE # 9055A -042	PROBE CAL BIAS = +00000
TRUCK # 7808	DATA: V3L8
APPL.#7 8	
J.WILEMAN	

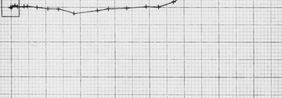
VERTICAL DEVIATION

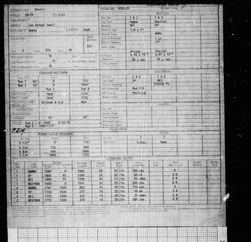
COMPULOG V3L1 DEVIATION

HOLE ID: SR-23

SCALE: 20 FT/IN	+ = 100 FOOT INCR
MAG DECL: 13.5	Δ = TOP OF ZONE
TRUE DEPTH: 2595. FT	◇ = BOTTOM OF ZONE
AZIMUTH: 85.	
DISTANCE: 156.9 FT	TRUE NORTH ↑

257





COMP-LDG V2.5L5 DATE 05-05-79 HOLE #SR-24

GAMMA S.P. RES. NEUTRON

0 0 0

100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1772

100 CPS 80 MV/IN 50 OHMS/IN 600 CPS

GAMMA S.P. RES. NEUTRON

0 0 0

RUN-2
DATE 05-23-79

COMP-LDG V2.5L5

1500 1600 1700 1772

100 CPS 80 MV/IN 50 OHMS/IN 600 CPS

GAMMA S.P. RES. NEUTRON

0 0 0

SR-24

P. RECKS

VERTICAL DEVIATION

SCALE: 10 FT/IN
HOLE ID: SR-24
TOTAL DEPTH: 1599. FT
AZIMUTH: 68.
DISTANCE: 68.1 FT

+ = 100 FOOT INCR
A = TOP OF ZONE
o = BOTTOM OF ZONE

TRUE NORTH ↑

Bendix Field Engineering Corporation
Grand Junction Operations

Caliper

Date 5-16-79
Truck No. 1725
Operator Pickering

COMPANY Bendix
HOLE SR-24 CLAIM
PROPERTY
AREA San Rafael Swell
COUNTY Emery STATE Utah

LOCATION
SEC 2 TWP 21S RGE 9E
Other Services: Gamma, SP, Res, NN, V.Dev, Temp

Permanent Datum GL Elev
Log Measured From GL Ft. Above Perm. Datum
Drilling Measured From GL Elev.

EQUIPMENT DATA

PROBE NO. 501 PROBE DIAM. 2"

NUCLEAR

Run No.				
Log Type				
Detector				
Detector Size				
Source Type				
Source Strength				
Source Spacing				
Amp. Gain				
Disc. Level				
K-Factor				
Deadtime				
Casing Factor				

ELECTRICAL

Run No.				
Log Type				
Normal Spacing				
SP Reference				
SP Polarity				
Bridle Length				

CALIPER

Run No.	1			
Device Type	Three Arm			
Tool Position				
Minimum Span	2.0"			
Maximum Span	10.0"			

OTHER

Run No.				
Log Type				

CASING RECORD

Size, Wgt.	From	To
6½"	0	115

Depth Driller	1600
Depth-Logger	1600
Type Fluid in Hole	Drispak & Water
Salinity ppm	
pH and Fluid Loss	
Density Lb/Gal.	
Fluid Level	91
Remarks	

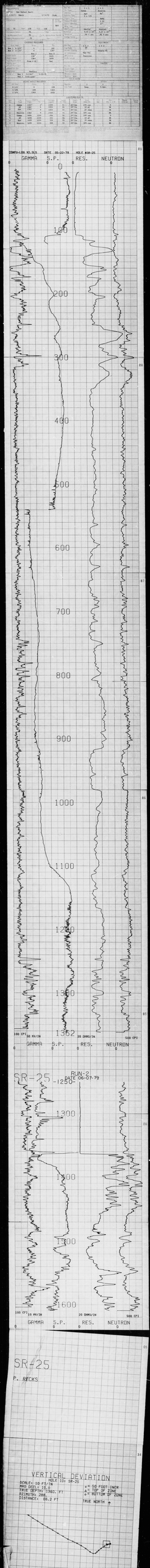
FOLD HERE

BORE HOLE RECORD

Bit Size	From	To
9 1/2"	0	115
5 7/8"	115	540
5 5/8"	540	1600

LOGGING DATA

Run No.	Log Type	Depth From	Depth To	Footage Logged	Speed Ft./Min.	Depth Scale	Sens. Units/Div.	T.C. Sec.	Zero Div. L or R	Digital Interval	Digital Time
1	Caliper	1600	100	1500	60	20'/in	1 in/Div	5	L		


COMPU-LOG WELL SERVICES
DATE 05-22-79
HOLE #SR-25
GAMMA
S.P.
RES.
NEUTRON
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1362
50 MV/IN
20 OHMS/IN
500 CPS
RUN-2
DATE 06-07-79
SR-25
1250
1300
1400
1500
1600
10 MV/IN
VERTICAL DEVIATION
SCALE: 1@ FT/IN
MAG DECL: 19.0
TRUE DEPTH: 1362. FT
AZIMUTH: 288.
DISTANCE: 68.2 FT
TRUE NORTH
SR-25
P. RICKS

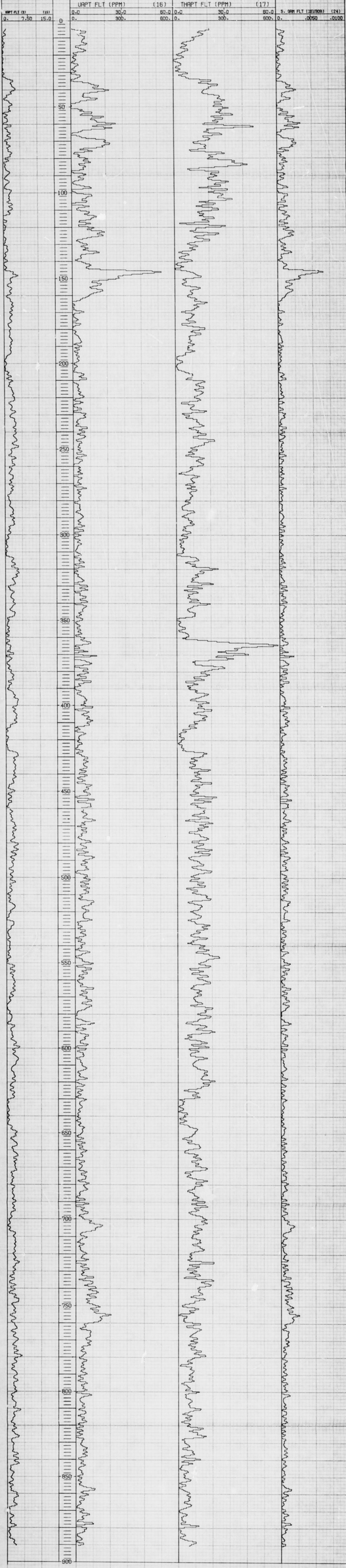
HOLE SR-26

BFEC PROJ # 20772109

LOG REDUCTION PROJ # 79001

AREA : SAN RAFAEL SWELL

REMARKS: FLT KUT CONC & S. GAM.



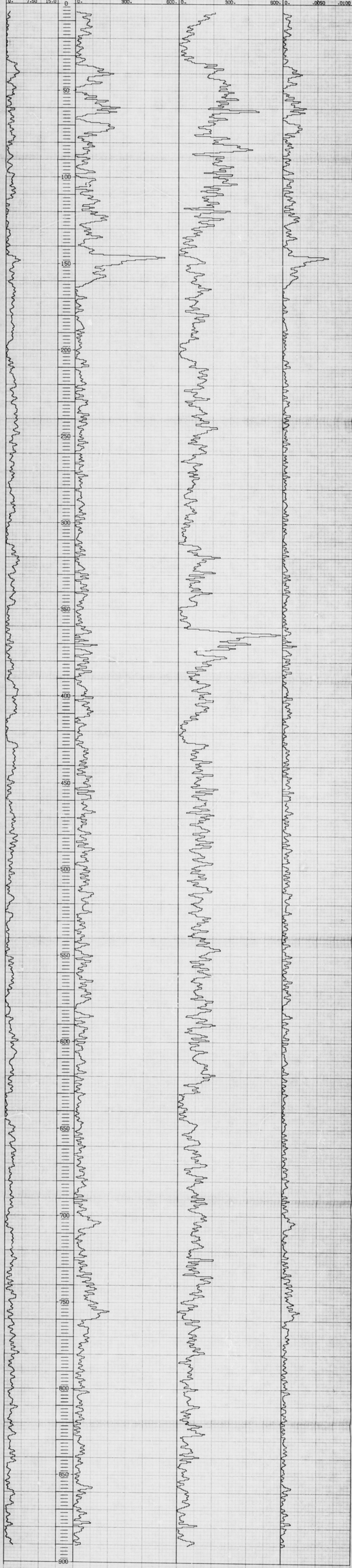
HOLE SR-26

BFEC PROJ # 20772109

LOG REDUCTION PROJ # 79001

AREA : SAN RAFAEL SWELL

REMARKS: FLT KUT CONC & S. GAM.



Bendix Field Engineering Corporation
Grand Junction Operations

Gamma, S.P., Res., Neutron

Date 5-3-79
Truck No 1815
Operator Recks

COMPANY	Bendix
HOLE	SR-26
CLAIM	Eagle
PROPERTY	
AREA	San Rafael Swell
COUNTY	Emery
STATE	Utah
LOCATION	SEC 7 TWP 22 S RGE 8 E
Other Services	KUT, Caliper
Permanent Datum	G.L. Elev.
Log Measured From	G.L. Ft. Above Perm. Datum
Drilling Measured From	G.L. Elev.

EQUIPMENT DATA

PROBE NO. 9055-66 PROBE DIAM. 2"

NUCLEAR

Run No.	1	1		
Log Type	Gamma	Neutron		
Detector	Na I	He^3		
Detector Size	7/8 X 4"			
Source Type		AmBe		
Source Strength		1 Ci		
Source Spacing		17"		
Amp. Gain				
Disc. Level	Analog	Digital		
K-Factor	5.59×10^{-6}	5.65×10^{-6}		
Deadtime	1.01µ sec	.99µ sec		
Casing Factor				

CASING RECORD

Size, Wgt.	From	To

Depth-Driller	920
Depth-Logger	902
Type Fluid in Hole	Mist & Foam
Salinity ppm	
pH and Fluid Loss	
Density Lb/Gal	
Fluid Level	10'
Remarks	

ELECTRICAL

Run No.	1			
Log Type	SP	RES		
Normal Spacing		Single Pt.		
SP Reference	H_2O Hole			
SP Polarity				
Bridle Length				

CALIPER

Run No.				
Device Type				
Tool Position				
Minimum Span				
Maximum Span				

FOLD HERE

BORE HOLE RECORD

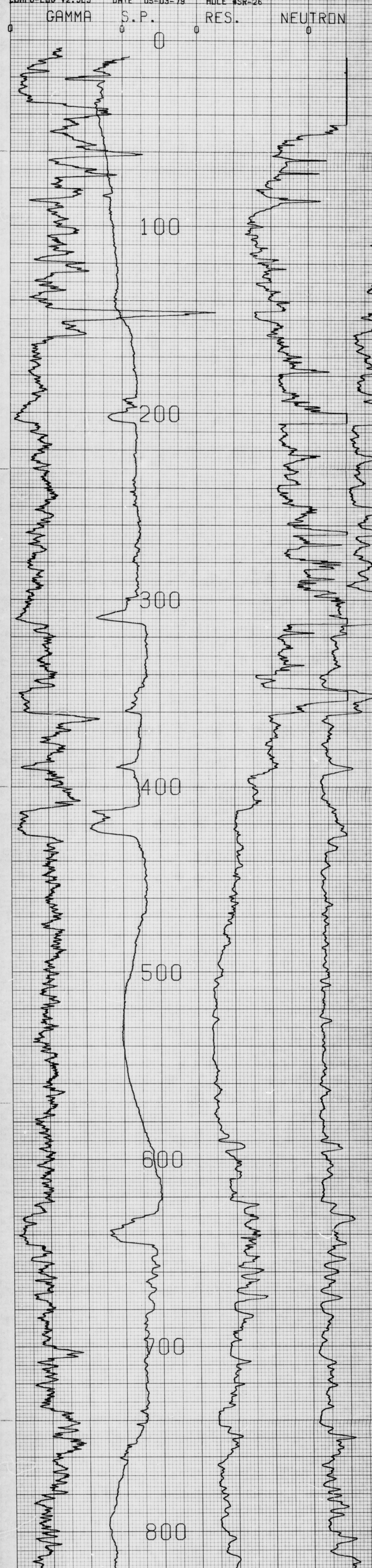
Bit Size	From	To
5 5/8	460	0
5 1/8	920	460

OTHER

Run No.	1			
Log Type	Temp.	V-Dev.		

LOGGING DATA

Run No.	Log Type	Depths From	Depths To	Footage Logged	Speed Ft./Min.	Depth Scale	Sens. Units/Div.	T.C. Sec.	Zero Div. L or R	Digital Interval	Digital Time
1	GAMMA	897	4	893	55	20'/In.	100 cps		L		
	SP	902	10	892	55	20'/In.	50 mV		L		
	RES	902	10	892	55	20'/In.	20 ohms		L		
	Neutron	902	9	893	55	20'/In.	500 cps		L		



SR-26

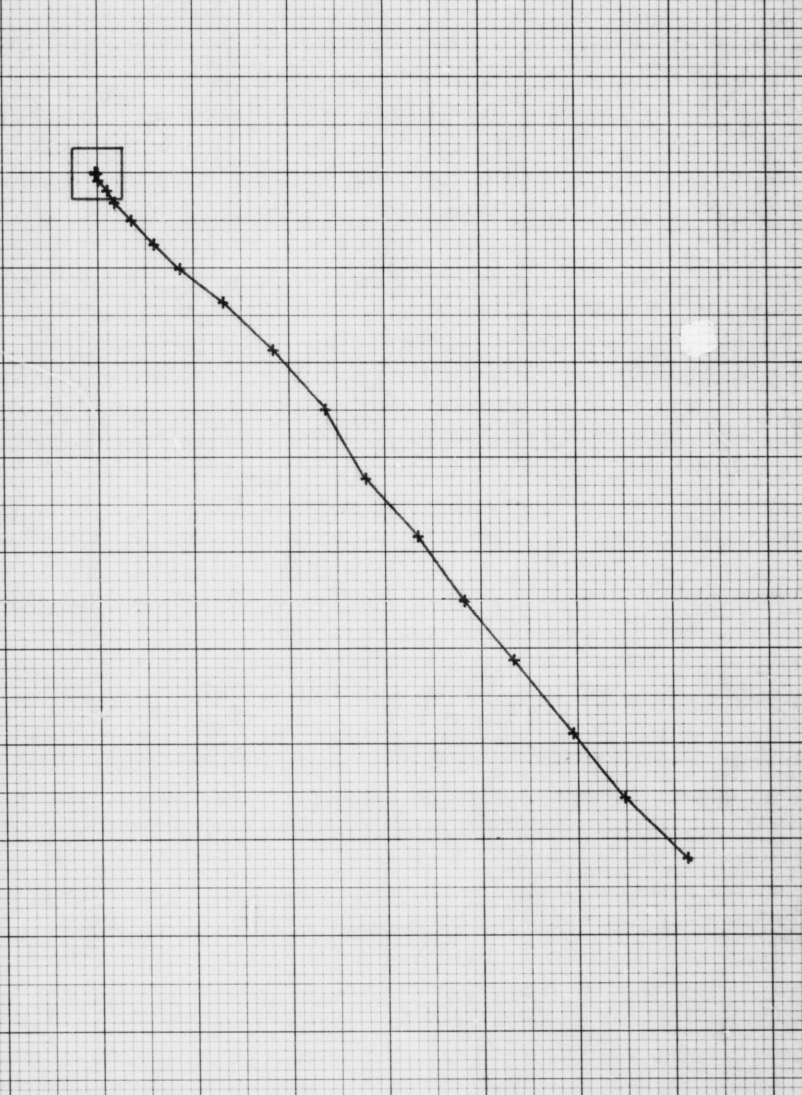
P. RECKS

VERTICAL DEVIATION

HOLE ID: SR-26

SCALE: 3 FT/IN
MAG DECL: 15.5
TRUE DEPTH: 901. FT
AZIMUTH: 140.
DISTANCE: 28.4 FT

+ = 50 FOOT INCR
△ = TOP OF ZONE
◇ = BOTTOM OF ZONE
TRUE NORTH ↑



COMPANY Bendix

HOLE SR-26 CLAIM Eagle

PROPERTY

AREA San Rafael Sell

COUNTY Emery STATE Utah

LOCATION

SEC 7 TWP 22S RGE 8E

Other Services: NG, N-N, Res, S-P, KUT, V-Dev, Temp.

Permanent Datum G.L. Elev.

Log Measured From G.L. Ft. Above Perm. Datum

Drilling Measured From G.L. Elev.

EQUIPMENT DATA

PROBE NO. PROBE DIAM.

NUCLEAR

Run No.				
Log Type				
Detector				
Detector Size				
Source Type				
Source Strength				
Source Spacing				
Amp. Gain				
Disc. Level				
K-Factor				
Deadtime				
Casing Factor				

CASING RECORD

Size, Wgt.	From	To
Depth-Driller	920	
Depth-Logger	865	
Type Fluid in Hole	Mist & Foam	
Salinity ppm		
pH and Fluid Loss		
Density Lb/Gal.		
Fluid Level	10'	

Remarks Probe #501

ELECTRICAL

Run No.				
Log Type				
Normal Spacing				
SP Reference				
SP Polarity				
Bridle Length				

CALIPER

Run No.	1			
Device Type	3-arm			
Tool Position				
Minimum Span				
Maximum Span				

FOLD HERE

BORE HOLE RECORD

Bit Size	From	To
5 - 5/8"	460	0
5 - 1/8"	920	460

OTHER

Run No.				
Log Type				

LOGGING DATA

Run No.	Log Type	Depths From	Depths To	Footage Logged	Speed Ft./Min.	Depth Scale	Sens. Units/Div.	T.C. Sec.	Zero Div. L or R	Digital Interval	Digital Time
1	Caliper	865'	5'	860	60	20'/in.	1"/Div.	S.	L.	-	-

COMPANY	Bendix	PROBE NO.	9355-25
HOLE	SR-106	PROBE DIAM	1.8"
CLAIM	Wyoming Mineral		
PROPERTY	BLM		
AREA	San Rafael Swell		
COUNTY	Emery	STATE	Utah
LOCATION	SEC 21 TWP 20S RGE 8E	Other Services	KUT
Permanent Datum	GL	Elev.	
Log Measured From	GL	Ft. Above Perm. Datum	
Drilling Measured From	GL	Elev.	

NUCLEAR

Run No.	1	1
Log Type	Gamma	Neutron
Detector	NaI	He^3
Detector Size	7/8 x 4	
Source Type		AmBe
Source Strength		1 Ci
Source Spacing		17"
Amp. Gain		
Disc. Level	Analog	Digital
K-Factor	5.44×10^{-6}	
Deadtime	.94 μ sec	.91 μ sec
Casing Factor		

CASING RECORD

Size, Wgt.	From	To
7"	0'	65'

Depth-Driller	1300'
Depth-Logger	1302'
Type Fluid in Hole	Mud
Salinity ppm	
pH and Fluid Loss	
Density Lb/Gal.	
Fluid Level	9'
Remarks	

ELECTRICAL

Run No.	1	1
Log Type	SP	Res
Normal Spacing		Single Pt.
SP Reference	Mud Pit	
SP Polarity	+	
Bridle Length		
Bias	-2"	

CALIPER

Run No.	
Device Type	
Tool Position	
Minimum Span	
Maximum Span	

FOLD HERE

BORE HOLE RECORD

Bit Size	From	To
6 1/4"	65'	1250'
6 1/8"	1250'	1300'

OTHER

Run No.	
Log Type	

LOGGING DATA

Run No.	Log Type	Depths From	Depths To	Footage Logged	Speed Ft./Min.	Depth Scale	Sens. Units Div.	T.C. Sec.	Zero Div. L or R	Digital Interval	Digital Time
1	Gamma	1296'	4'	1292'	55	20'/in	100 CPI		0		
	SP	1301'	9'	1292'	55	20'/in	20 mv		3R		
	Res	1301'	9'	1292'	55	20'/in	10 ohms		5R		
	Neutron	1301'	9'	1292'	55	20'/in	500 CPI		8R		

COMPU-LOG V2.5L5 DATE 08-28-79 HOLE #SR-106

SR-106

J KUYKENDALL

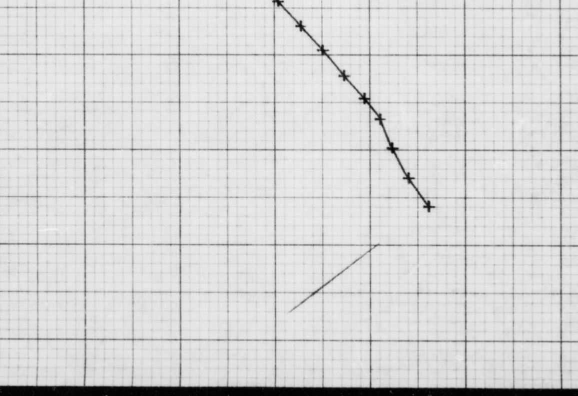
VERTICAL DEVIATION

HOLE ID: SR-106

SCALE: 10 FT/IN
MAG DECL: 15.0
TRUE DEPTH: 1299. FT
AZIMUTH: 142.
DISTANCE: 58.6 FT

+ = 50 FOOT INCR
△ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑



HOLE DATA			
COMPANY	BENDIX FIELD ENGINEERING CORPORATION		
BOREHOLE	107		
AREA	FERRON	ELEVATION	
COUNTY	EMERY	STATE	UTAH
SECTION	23	TOWNSHIP 20S	RANGE 08E
TOTAL DEPTH — DRILLER	680	BIT SIZE	6.2
TOTAL DEPTH — LOGGER	679	CASING — TYPE & SIZE	STEEL
TOTAL FOOTAGE LOGGED	679	CASING DEPTH	
LOGGING SPEED	60	BOREHOLE FLUID	H_2O, MUD
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	@ °F
PROBE NO.	9055A-1	SOFTWARE LEVEL	

REMARKS:

EQUIPMENT DATA

		9010	9030	9050/55	9060
PROBE MODEL		9010	9030	9050/55	9060
PROBE DIAMETER		1.87"	2.0"	1.87"	1.4"
NATURAL GAMMA	DETECTOR TYPE	NaI	NaI	NaI	NaI
	DETECTOR SIZE	.875" x 1.25"	1.25" x 4.5"	.875" x 4.0"	.5" x 3.0"
	STD. K FACTOR	1.59 x 10⁻⁵	—	.558 x 10⁻⁵	1.62 x 10⁻⁵
	STD. DEADTIME	1 µsec	—	1.18 µsec	1 µsec
	CALIB. MODEL LOC.		—		
	CALIB DATE		—		
	K FACTOR		—	.558x10⁻⁵	
	DEADTIME		—	1.18 µsec	
	TEST READING		—		
	WATER FACTOR		—		
	CASING FACTOR		—		
DENSITY	DETECTOR TYPE	—	NaI	—	NaI
	DETECTOR SIZE	—	.5" x 1.5"	—	.5" x 3.0"
	SOURCE TYPE	—	Cs¹³⁷	—	Cs¹³⁷
	SOURCE NO.	—		—	
	SOURCE STRENGTH	—		—	
	SOURCE SPACING	—		—	
NEUTRON	DETECTOR TYPE	—	—	He³	—
	DETECTOR SIZE	—	—	1.0" x 6.0"	—
	SOURCE TYPE	—	—	AmBe	—
	SOURCE NO	—	—	71-1-421	—
	SOURCE STRENGTH	—	—	1CiAmBe	—
	SOURCE SPACING	—	—		—
SNGL. PT RESISTANCE		1.4"D x 2.5"L	—	1.4"D x 2.5"L	1.1"D x 2.5"L
RESISTIVITY		—	8" FOCUSED	—	—
SELF POTENTIAL		YES	—	YES	YES
TEMPERATURE		—	—	YES	—
DEVIATION		—	—	NO / YES	—
CALIPER		—	YES	—	—

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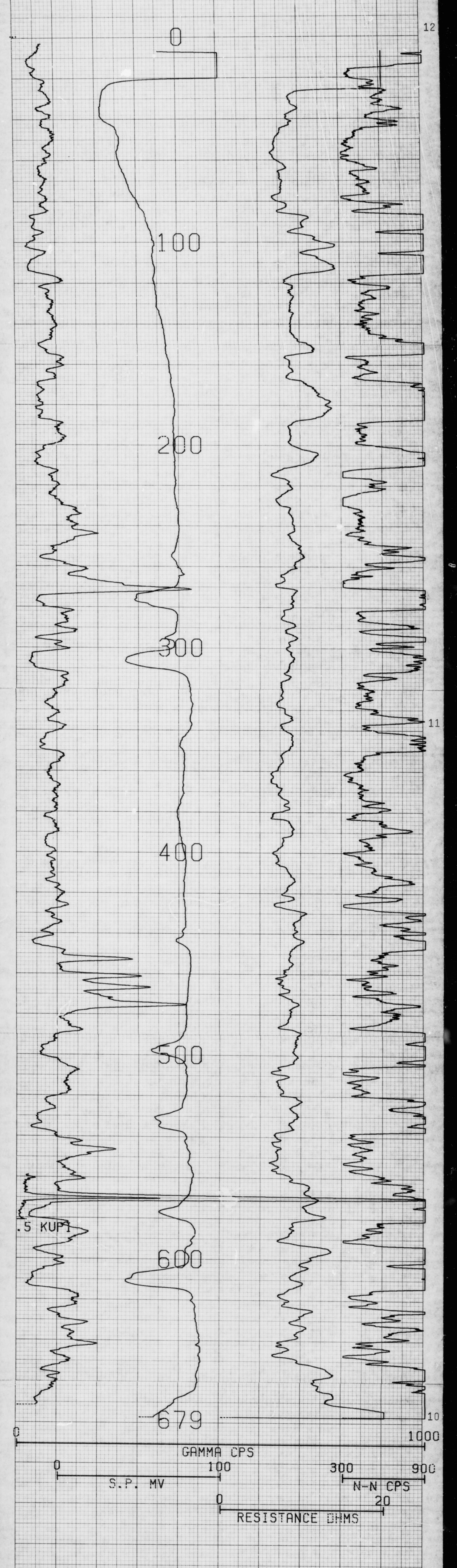


COMPU-LOG V3L7 PLOT 09-08-79

107
BENDIX
FERRON

HOLE DIAMETER : 06.2

CAL STD CPS = 0000 CAL RUN CPS = 0000
PROBE # 9055A -001 PROBE CAL BIAS = +00000
TRUCK # 7664 DATA: V3L8
APPL.#5 B
P. LARSON

ORE GRADE CALCULATION

COMPULOG V3L3 ORE GRADE
DEPTH SCALE = 5 FEET/INCH

565

CD I 2.0 FT / 0.014 %

575

.01 % eU_3O_8/INCH
CONVERGENCE FACTOR = 0.975
THRESHOLD = 0.005

470

CD I 1.5 FT / 0.006 %

480

.01 % eU_3O_8/INCH
CONVERGENCE FACTOR = 0.977
THRESHOLD = 0.005

450

I 0.5 FT / 0.007 %

CD I 0.5 FT / 0.006 %

465

.01 % eU_3O_8/INCH
CONVERGENCE FACTOR = 0.977
THRESHOLD = 0.005

277

270

CD I 1.5 FT / 0.006 %

275

.01 % eU_3O_8/INCH
CONVERGENCE FACTOR = 0.977
THRESHOLD = 0.005

ORE GRADE CALCULATION

COMPULOG V3L3 ORE GRADE
DEPTH SCALE = 5 FEET/INCH

565

CD I 0.5 FT / 0.036 %

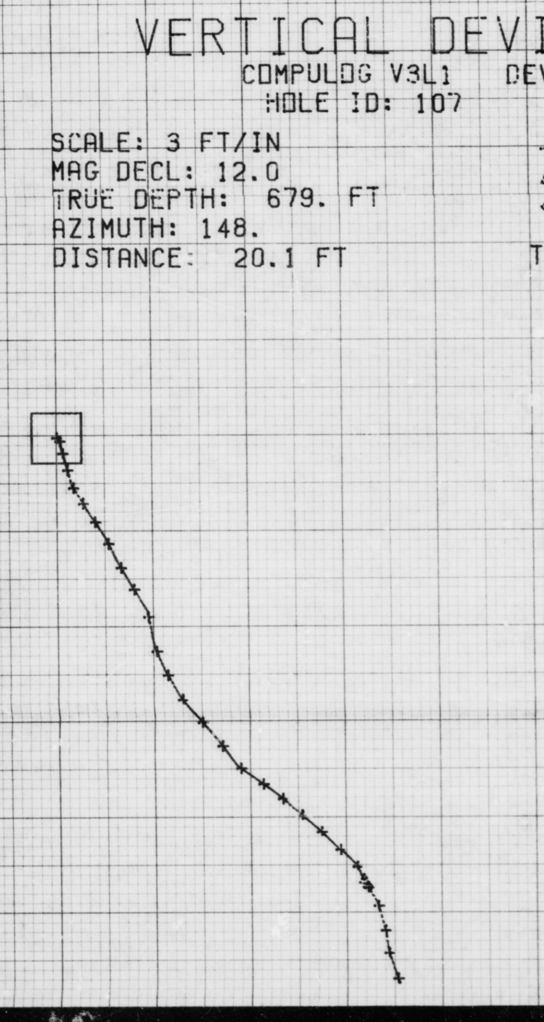
575

.01 % eU_3O_8/INCH
CONVERGENCE FACTOR = 0.975
THRESHOLD = 0.005

VERTICAL DEVIATION

COMPULOG V3L1 DEVIATION
HOLE ID: 107

SCALE: 3 FT/IN + = 25 FOOT INCR
MAG DECL: 12.0 Δ = TOP OF ZONE
TRUE DEPTH: 679. FT ◇ = BOTTOM OF ZONE
AZIMUTH: 148.
DISTANCE: 20.1 FT TRUE NORTH ↑



CENTURY GEOPHYSICAL CORPORATION

Tulsa, Oklahoma

P. LARSON | 09/08/79
UNIT NO. 7664 | FIELD OFFICE GRAND JUNCTION

COMPANY: BENDIX FIELD ENGINEERING CORPORATION
BOREHOLE: 107
AREA: FERRON
ELEVATION:
COUNTY: EMERY
STATE: UTAH
SECTION: 23
TOWNSHIP: 20S
RANGE: 08E

HOLE DATA

TOTAL DEPTH — DRILLER	680	BIT SIZE	6.2
TOTAL DEPTH — LOGGER	679	CASING — TYPE & SIZE	STEEL
TOTAL FOOTAGE LOGGED	679	CASING DEPTH	20
LOGGING SPEED	30	BOREHOLE FLUID	H_2O, MUD
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	@ °F
PROBE NO.	9030A-181	SOFTWARE LEVEL	

REMARKS: 20' CASING

EQUIPMENT DATA

		9010	9030	9050/55	9060
PROBE MODEL		9010	9030	9050/55	9060
PROBE DIAMETER		1.87"	2.0"	1.87"	1.4"
NATURAL GAMMA	DETECTOR TYPE	NaI	NaI	NaI	NaI
	DETECTOR SIZE	.875" x 1.25"	1.25" x 4.5"	.875" x 4.0"	.5" x 3.0"
	STD. K FACTOR	1.59×10^{-5}	—	$.558 \times 10^{-5}$	1.62×10^{-5}
	STD. DEADTIME	1 μsec	—	1.18 μsec	1 μsec
	CALIB. MODEL LOC.		—		
	CALIB DATE		—		
	K FACTOR		—		
	DEADTIME		—		
	TEST READING		—		
	WATER FACTOR		—		
	CASING FACTOR		—		
DENSITY	DETECTOR TYPE	—	NaI	—	NaI
	DETECTOR SIZE	—	.5" x 1.5"	—	.5" x 3.0"
	SOURCE TYPE	—	Cs^{137}	—	Cs^{137}
	SOURCE NO.	—	VL-1-184	—	
	SOURCE STRENGTH	—	125mCiCs 137	—	
	SOURCE SPACING	—		—	
NEUTRON	DETECTOR TYPE	—	—	He^3	—
	DETECTOR SIZE	—	—	1.0" x 6.0"	—
	SOURCE TYPE	—	—	AmBe	—
	SOURCE NO.	—	—		—
	SOURCE STRENGTH	—	—		—
	SOURCE SPACING	—	—		—
SNGL. PT RESISTANCE		1.4"D x 2.5"L	—	1.4"D x 2.5"L	1.1"D x 2.5"L
RESISTIVITY		—	6" FOCUSED	—	—
SELF POTENTIAL		YES	—	YES	YES
TEMPERATURE		—	—	YES	—
DEVIATION		—	—	NO / YES	—
CALIPER		—	YES	—	—

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COMPU-LOG V3L6 PLOT 09-08-79

107
BENDIX
FERRON
HOLE DIAMETER : 06.2

CAL STD CPS = 5000 CAL RUN CPS = 5892
PROBE # 9030A -181 PROBE CAL BIAS = -00025
TRUCK # 7664 DATA: V3L8
APPL.#30 A
P. LARSON

CENTURY GEOPHYSICAL CORPORATION
Tulsa, Oklahoma

OPERATOR	P. LARSON
DATE	09/23/79
UNIT NO.	7664
FIELD OFFICE	GRAND JUNCTION
COMPANY	BENDIX FIELD ENGINEERING CORPORATION
BOREHOLE	SR-108
AREA	NW SECTION 34
ELEVATION	
COUNTY	EMERY
STATE	UTAH
SECTION	34
TOWNSHIP	20S
RANGE	08E

HOLE DATA

TOTAL DEPTH — DRILLER	890	BIT SIZE	4.0
TOTAL DEPTH — LOGGER	883	CASING — TYPE & SIZE	STEEL
TOTAL FOOTAGE LOGGED	388	CASING DEPTH	740
LOGGING SPEED	60	BOREHOLE FLUID	H_2O, GEL
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	@ °F
PROBE NO.	9055A-1	SOFTWARE LEVEL	

REMARKS: CASING TO 740'

EQUIPMENT DATA

		9010	9030	9050/55	9060
	PROBE MODEL	9010	9030	9050/55	9060
	PROBE DIAMETER	1.87"	2.0"	1.87"	1.4"
NATURAL GAMMA	DETECTOR TYPE	NaI	NaI	NaI	NaI
	DETECTOR SIZE	.875" x 1.25"	1.25" x 4.5"	.875" x 4.0"	.5" x 3.0"
	STD. K FACTOR	1.59 x 10⁻⁵	—	.558 x 10⁻⁵	1.62 x 10⁻⁵
	STD. DEADTIME	1 μsec	—	1.18 μsec	1 μsec
	CALIB. MODEL LOC.		—		
	CALIB DATE		—		
	K FACTOR		—	.558x10⁻⁵	
	DEADTIME		—	1.18μsec	
	TEST READING		—		
	WATER FACTOR		—	1.087	
	CASING FACTOR		—		
DENSITY	DETECTOR TYPE	—	NaI	—	NaI
	DETECTOR SIZE	—	.5" x 1.5"	—	.5" x 3.0"
	SOURCE TYPE	—	Cs¹³⁷	—	Cs¹³⁷
	SOURCE NO.	—		—	
	SOURCE STRENGTH	—		—	
	SOURCE SPACING	—		—	
NEUTRON	DETECTOR TYPE	—	—	He³	—
	DETECTOR SIZE	—	—	1.0" x 6.0"	—
	SOURCE TYPE	—	—	AmBe	—
	SOURCE NO.	—	—	71-1-421	—
	SOURCE STRENGTH	—	—	CiAmBe	—
	SOURCE SPACING	—	—		—
	SNGL. PT RESISTANCE	1.4"D x 2.5"L	—	1.4"D x 2.5"L	1.1"D x 2.5"L
	RESISTIVITY	—	8" FOCUSED	—	—
	SELF POTENTIAL	YES	—	YES	YES
	TEMPERATURE	—	—	YES	—
	DEVIATION	—	—	NO / YES	—
	CALIPER	—	YES	—	—

CT-112 REV. 11-78

COMPU-LOG V3L6 PLOT 09-23-79

SR-108
BENDIX
NW SECTION 34
HOLE DIAMETER : 04.0

CAL STD CPS = 0000
PROBE # 9055A -001
TRUCK # 7664
APPL.#5 A
P. LARSON

CAL RUN CPS = 0000
PROBE CAL BIAS = +00000
DATA: V3L8

CGC
Tulsa, Oklahoma

COMPANY	BENDIX FIELD ENGINEERING CORPORATION
BOREHOLE	SR-103
AREA	NW SECTION 34
ELEVATION	
COUNTY	EMERY
STATE	UTAH
SECTION	34
TOWNSHIP	20S
RANGE	08E
UNIT NO.	76[illegible]
FIELD OFFICE	GRAND JUNCTION

HOLE DATA

TOTAL DEPTH — DRILLER	890	BIT SIZE	4.0
TOTAL DEPTH — LOGGER	337	CASING — TYPE & SIZE	STEEL
TOTAL FOOTAGE LOGGED	837	CASING DEPTH	74?
LOGGING SPEED	30	BOREHOLE FLUID	H_2O, GEL
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	@ °F
PROBE NO.	9030A-181	SOFTWARE LEVEL	

REMARKS: CASING TO 740'

EQUIPMENT DATA

		9010	9030	9050/55	9060
	PROBE MODEL	9010	9030	9050/55	9060
	PROBE DIAMETER	1.87"	2.0"	1.87"	1.4"
NATURAL GAMMA	DETECTOR TYPE	NaI	NaI	NaI	NaI
	DETECTOR SIZE	.875" x 1.25"	1.25" x 4.5"	.875" x 4.0"	.5" x 3.0"
	STD. K FACTOR	1.56 x 10⁻⁵	—	5.58 x 10⁻⁵	1.62 x 10⁻⁵
	STD. DEADTIME	1 µsec	—	1.18 µsec	1 µsec
	CALIB. MODEL LOC.		—		
	CALIB DATE		—		
	K FACTOR		—		
	DEADTIME		—		
	TEST READING		—		
	WATER FACTOR		—		
	CASING FACTOR		—		
DENSITY	DETECTOR TYPE	—	NaI	—	NaI
	DETECTOR SIZE	—	.5" x 1.5"	—	.5" x 3.0"
	SOURCE TYPE	—	Cs^{137}	—	Cs^{137}
	SOURCE NO.	—	VL-1-184	—	
	SOURCE STRENGTH	—	125mCiCs 137		
	SOURCE SPACING	—		—	
NEUTRON	DETECTOR TYPE	—	—	He^3	—
	DETECTOR SIZE	—	—	1.0" x 6.0"	—
	SOURCE TYPE	—	—	AmBe	—
	SOURCE NO.	—	—		—
	SOURCE STRENGTH	—	—		—
	SOURCE SPACING	—	—		—
	SNGL. PT RESISTANCE	1.4"D x 2.5"L	—	1.4"D x 2.5"L	1.1"D x 2.5"L
	RESISTIVITY	—	8" FOCUSED	—	—
	SELF POTENTIAL	YES	—	YES	YES
	TEMPERATURE	—	—	YES	—
	DEVIATION	—	—	NO / YES	—
	CALIPER	—	YES	—	—

CT-112 REV. 11-78

COMPU-LOG V3L6 PLOT 09-23-79

SR-108
BENDIX
NW SECTION 34
HOLE DIAMETER : 04.0

CAL STD CPS = 5000	CAL RUN CPS = 5688
PROBE # 9030A -181	PROBE CAL BIAS = -00025
TRUCK # 7664	DATA: V3L8

APPL.#30 A
P. LARSON

COMPANY: BENDIX FIELD ENGINEERING CORPORATION
BOREHOLE: SR-109
AREA: SAN RAFAEL SWELL
ELEVATION:
COUNTY: EMERY
STATE: UTAH
SECTION: 04
TOWNSHIP: 21S
RANGE: 08E

HOLE DATA

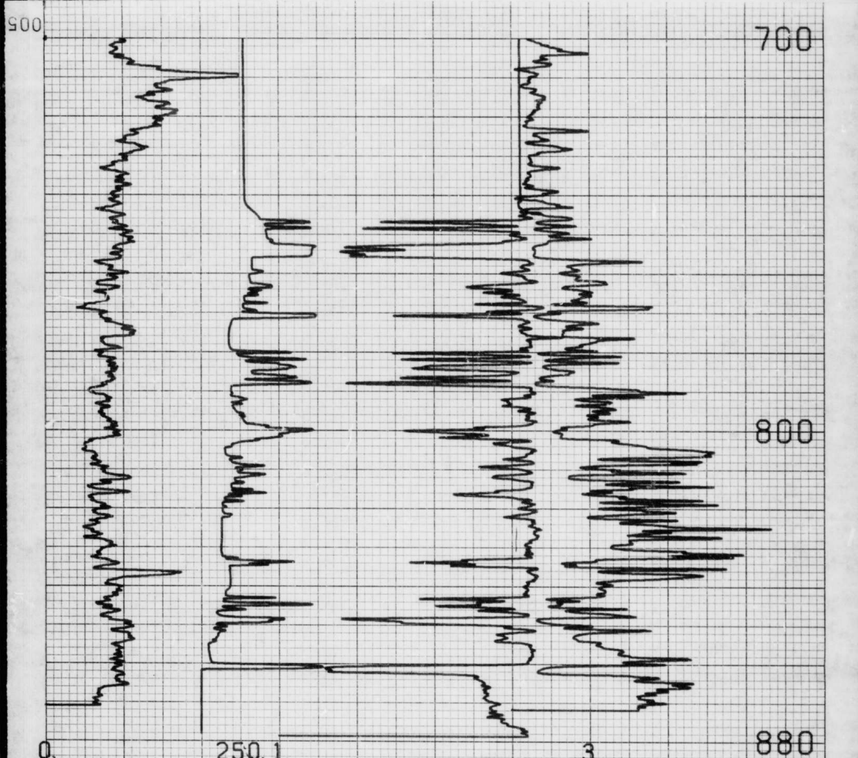
TOTAL DEPTH — DRILLER	903	BIT SIZE	3.0
TOTAL DEPTH — LOGGER	880	CASING — TYPE & SIZE	STEEL
TOTAL FOOTAGE LOGGED	180	CASING DEPTH	743
LOGGING SPEED	30	BOREHOLE FLUID	H_2O,STARCH,DRISPAC
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY @ °F	
PROBE NO.	9030A-181	SOFTWARE LEVEL	

REMARKS: CASING TO 743'

EQUIPMENT DATA

PROBE MODEL	9010	9030	9056/56	9000
PROBE DIAMETER	1.87"	2.0"	1.87"	1.4"
NATURAL GAMMA — DETECTOR TYPE	Nal	Nal	Nal	Nal
NATURAL GAMMA — DETECTOR SIZE	.875" x 1.25"	1.25" x 4.5"	.875" x 4.0"	.5" x 3.0"
NATURAL GAMMA — STD. K FACTOR	1.59×10^{-3}	—	$.566 \times 10^{-3}$	1.62×10^{-3}
NATURAL GAMMA — STD. DEADTIME	1 μsec	—	1.16 μsec	1 μsec
NATURAL GAMMA — CALIB. MODEL LOC.		—		
NATURAL GAMMA — CALIB. DATE		—		
NATURAL GAMMA — K FACTOR		—		
NATURAL GAMMA — DEADTIME		—		
NATURAL GAMMA — TEST READING		—		
NATURAL GAMMA — WATER FACTOR		—		
NATURAL GAMMA — CASING FACTOR		—		
DENSITY — DETECTOR TYPE	—	Nal	—	Nal
DENSITY — DETECTOR SIZE	—	.5" x 1.5"	—	.5" x 3.0"
DENSITY — SOURCE TYPE	—	Cs^{137}	—	Cs^{137}
DENSITY — SOURCE NO.	—	VL-1-184		
DENSITY — SOURCE STRENGTH	—	125mCi@s	1/97	
DENSITY — SOURCE SPACING	—		—	
NEUTRON — DETECTOR TYPE	—	—	He^3	—
NEUTRON — DETECTOR SIZE	—	—	1.0" x 8.0"	—
NEUTRON — SOURCE TYPE	—	—	Am/Be	—
NEUTRON — SOURCE NO.	—	—		—
NEUTRON — SOURCE STRENGTH	—	—		—
NEUTRON — SOURCE SPACING	—	—		—
SNGL. PT RESISTANCE	1.4"D x 2.5"L	—	1.4"D x 2.5"L	1.1"D x 2.5"L
RESISTIVITY	—	6" FOCUSED	—	—
SELF POTENTIAL	YES	—	YES	YES
TEMPERATURE	—	—	YES	—
DEVIATION	—	—	NO / YES	—
CALIPER	—	YES	—	—

CT 112 REV. 11.76



COMPU-LOG V3L7 PLOT 11-13-79

SR-109
BENDIX
SAN RAFAEL SWELL

HOLE DIAMETER : 03.0

CAL STD CPS = 5000
CAL RUN CPS = 5725
PROBE # 9030A -181
PROBE CAL BIAS = -00025
TRUCK # 7664
DATA: V3L8
APPL.#30 B
P. LARSON

CENTURY GEOPHYSICAL CORPORATION

Tulsa, Oklahoma

COMPANY: BENDIX FIELD ENGINEERING CORPORATION

WELL: SR 109

AREA: SE SE SECTION 04

COUNTY: EMERY

STATE: UTAH

SECTION: 04 | TOWNSHIP: 21S | RANGE: 08E

ELEVATION:

OPERATOR: P. LARSON

DATE: 09/26/79

UNIT NO: 7664

FIELD OFFICE: GRAND JUNCTION

EQUIPMENT DATA

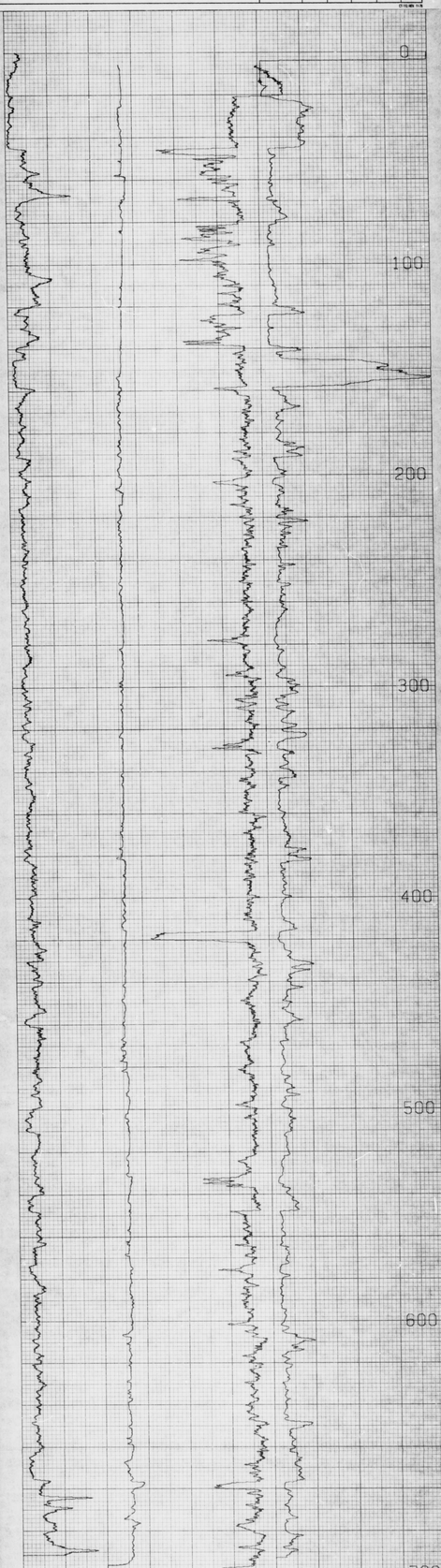
	PROBE MODEL	9010	9030	9030/9116	9080
	PROBE DIAMETER	1.69"	2.0"	4.0"	1.4"
NATURAL GAMMA	DETECTOR TYPE	Nal	Nal	Nal	Nal
	DETECTOR SIZE	.875" x 1.0"	1.25" x 4.0"	.875" x 4.0"	.5" x 1.0"
	STD. K FACTOR	1.00 x 10⁻³	—	398 x 10⁻³	1.01 x 10⁻³
	STD. SHUNTING	1 µ mho	—	1.15 µ mho	1 µ mho
	CALIB. MODEL I.D.		—		
	CALIB. DATE		—		
	K FACTOR		—		
	SHUNTING		—		
	TEST READING		—		
	WATER FACTOR		—		
	LOADING FACTOR		—		
DENSITY	DETECTOR TYPE	—	Nal	—	Nal
	DETECTOR SIZE	—	2" x 1.5"	—	2" x 3/8"
	SOURCE TYPE	—	Cs137	—	Cs137
	SOURCE NO.	—	30-1-181		
	SOURCE STRENGTH	—	125mCi	17	
	SOURCE SPACING	—	—		
NEUTRON	DETECTOR TYPE	—	—	He³	—
	DETECTOR SIZE	—	—	10" x 1.5"	—
	SOURCE TYPE	—	—	AmBe	—
	SOURCE NO.	—	—		—
	SOURCE STRENGTH	—	—		—
	SOURCE SPACING	—	—		—
SMALL PT. RESISTANCE		1 PT's / 2.5 Ω	—	1 PT's / 2.5 Ω	1 PT's / 2.5 Ω
RESISTIVITY		—	F 9000/800	—	—
SELF POTENTIAL		YES	—	YES	YES
TEMPERATURE		—	—	YES	—
INDUCTION		—	—	NO / YES	—
CALIPER		—	YES	—	—

CT-TG-MRI-1176

HOLE DATA

TOTAL DEPTH — DRILLER	740	BIT SIZE	6.1
TOTAL DEPTH — LOGGER	720	CASING — TYPE & SIZE	STEEL
TOTAL FOOTAGE LOGGED	720	CASING DEPTH	21
LOGGING SPEED	30	BOREHOLE FLUID	H_2O, GEL, DRISPAC
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	@ °F
PROBE NO.	9030A-181	SOFTWARE LEVEL	

REMARKS: CASING TO 21'



COMPU-LOG V3L6 PLOT 09-26-79

SR-109
BENDIX
SE SE SECTION 4
HOLE DIAMETER : 06.1

CAL STD CPS = 5000 CAL RUN CPS = 5687
PROBE # 9030A -181 PROBE CAL BIAS = -.00025
TRUCK # 7664 DATA: V3L6
APPL. #30 A
P. LARSON

Tulsa, Oklahoma

COMPANY	BENDIX FIELD ENGINEERING CORPORATION
BOREHOLE	SR-109
AREA	SE SE SECTION 4
ELEVATION	
COUNTY	EMERY
STATE	UTAH
SECTION	04
TOWNSHIP	21S
RANGE	08E

7664 GRAND JUNCTION

HOLE DATA

TOTAL DEPTH — DRILLER	740'	BIT SIZE	6.1
TOTAL DEPTH — LOGGER	724'	CASING — TYPE & SIZE	STEEL
TOTAL FOOTAGE LOGGED	724'	CASING DEPTH	21'
LOGGING SPEED	60	BOREHOLE FLUID	H_2O,GEL,DRISPAC
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	@ °F
PROBE NO.	9055A-1	SOFTWARE LEVEL	

REMARKS: CASING TO 21'

EQUIPMENT DATA

		9010	9030	9050/55	9080	
PROBE MODEL		9010	9030	9050/55	9080	
PROBE DIAMETER		1.87"	2.0"	1.87"	1.4"	
NATURAL GAMMA	DETECTOR TYPE	NaI	NaI	NaI	NaI	
	DETECTOR SIZE	.875" x 1.25"	1.25" x 4.5"	.875" x 4.0"	.5" x 3.0"	
	STD. K FACTOR	1.58×10^{-5}	—	$.558 \times 10^{-5}$	1.62×10^{-5}	
	STD. DEADTIME	1 µsec	—	1.18 µsec	1 µsec	
	CALIB. MODEL LOC.		—			
	CALIB DATE		—			
	K FACTOR		—	$.558 \times 10^{-5}$		
	DEADTIME		—	1.18 usec		
	TEST READING		—			
	WATER FACTOR		—			
	CASING FACTOR		—			
DENSITY	DETECTOR TYPE	—	NaI	—	NaI	
	DETECTOR SIZE	—	.5" x 1.5"	—	.5" x 3.0"	
	SOURCE TYPE	—	Cs^{137}	—	Cs^{137}	
	SOURCE NO.	—		—		
	SOURCE STRENGTH	—		—		
	SOURCE SPACING	—		—		
NEUTRON	DETECTOR TYPE	—	—	He^3	—	
	DETECTOR SIZE	—	—	1.0" x 6.0"	—	
	SOURCE TYPE	—	—	AmBe	—	
	SOURCE NO.	—	—		—	
	SOURCE STRENGTH	—	—		—	
	SOURCE SPACING	—	—		—	
SNGL. PT RESISTANCE		1.4"D x 2.5"L	—	1.4"D x 2.5"L	1.1"D x 2.5"L	
RESISTIVITY		—	6" FOCUSED	—	—	
SELF POTENTIAL		YES	—	YES	YES	
TEMPERATURE		—	—	YES	—	
DEVIATION		—	—	NO / YES	—	
CALIPER		—	YES	—	—	

CT-112 REV. 11-78

COMPU-LOG V3L6 PLOT 09-26-79

SR-109
BENDIX
SE SE SECTION 4
HOLE DIAMETER : 06.1

CAL STD CPS = 0000 CAL RUN CPS = 0000
PROBE # 9055A -001 PROBE CAL BIAS = +00000
TRUCK # 7664 DATA: V3L8
APPL.#5 A
P. LARSON

CENTURY GEOPHYSICAL CORPORATION

Tulsa, Oklahoma

OPERATOR: P. LARSON | DATE: 11/13/79

UNIT NO.: 7664 | FIELD OFFICE: GRAND JUNCTION

COMPANY: BENDIX FIELD ENGINEERING CORPORATION

BOREHOLE: SR 109

AREA: SAN RAFAEL SWELL | ELEVATION:

COUNTY: EMERY | STATE: UTAH

SECTION: 04 | TOWNSHIP: 21S | RANGE: 08E

HOLE DATA

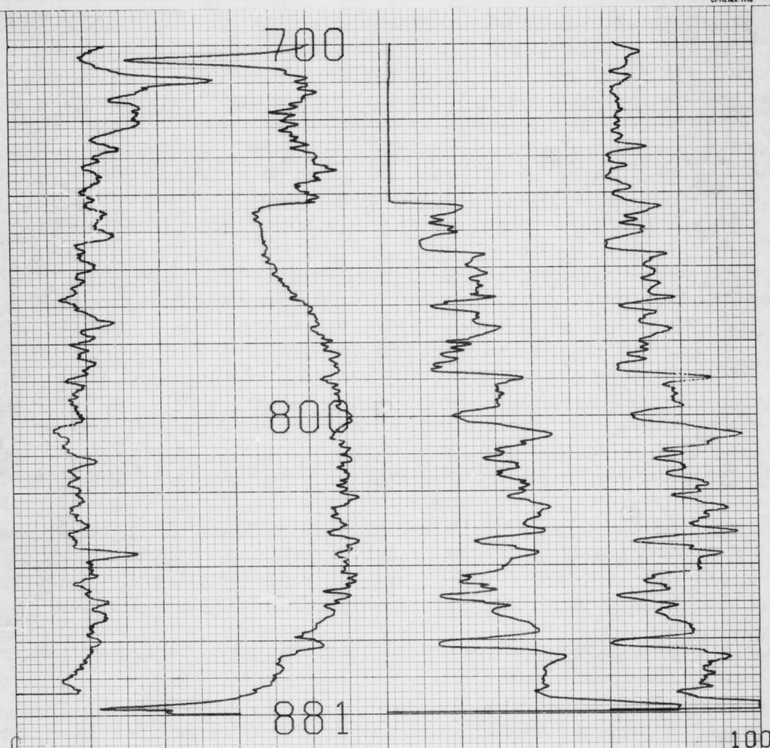
TOTAL DEPTH — DRILLER	903	BIT SIZE	3.0
TOTAL DEPTH — LOGGER	881	CASING — TYPE & SIZE	STEEL
TOTAL FOOTAGE LOGGED	181	CASING DEPTH	743
LOGGING SPEED	60	BOREHOLE FLUID	H_2O,STARCH,DRISPAC
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	@ °F
PROBE NO.	9055A-1	SOFTWARE LEVEL	

REMARKS: CASING TO 743'

EQUIPMENT DATA

PROBE MODEL	9010	9030	9060/95	9080
PROBE DIAMETER	1.87"	2.0"	1.87"	1.4"
NATURAL GAMMA — DETECTOR TYPE	NaI	NaI	NaI	NaI
NATURAL GAMMA — DETECTOR SIZE	.875" x 1.25"	1.25" x 4.5"	.875" x 4.0"	.5" x 3.0"
NATURAL GAMMA — STD. K FACTOR	1.50×10^{-3}	—	$.558 \times 10^{-3}$	1.82×10^{-3}
NATURAL GAMMA — STD. DEADTIME	1 μsec	—	1.18 μsec	1 μsec
NATURAL GAMMA — CALIB. MODEL LOC.		—		
NATURAL GAMMA — CALIB. DATE		—		
NATURAL GAMMA — F.E. FACTOR		—	$.558 \times 10^{-3}$	
NATURAL GAMMA — DEADTIME		—	1.18 usec	
NATURAL GAMMA — TEST READING		—		
NATURAL GAMMA — WATER FACTOR		—		
NATURAL GAMMA — CASING FACTOR		—		
DENSITY — DETECTOR TYPE	—	NaI	—	NaI
DENSITY — DETECTOR SIZE	—	3" x 1.5"	—	3" x 3.0"
DENSITY — SOURCE TYPE	—	Cs^{137}	—	Cs^{137}
DENSITY — SOURCE NO.	—		—	
DENSITY — SOURCE STRENGTH	—		—	
DENSITY — SOURCE SPACING	—		—	
NEUTRON — DETECTOR TYPE	—	—	He^3	—
NEUTRON — DETECTOR SIZE	—	—	1.0" x 8.0"	—
NEUTRON — SOURCE TYPE	—	—	Am-Be	—
NEUTRON — SOURCE NO.	—	—		—
NEUTRON — SOURCE STRENGTH	—	—		—
NEUTRON — SOURCE SPACING	—	—		—
SNGL. PT RESISTANCE	1.4"Ø x 2.5"L	—	1.4"Ø x 2.5"L	1.1"Ø x 2.5"L
RESISTIVITY	—	8" FOCUSED	—	—
SELF POTENTIAL	YES	—	YES	YES
TEMPERATURE	—	—	YES	—
DEVIATION	—	—	MD / YES	—
CALIPER	—	YES	—	—

CC-112 REV. 11-78



COMPU-LOG V3L7 PLOT 11-13-79

SR-109

BENDIX

SAN RAFAEL SWELL

HOLE DIAMETER : 03.0

900

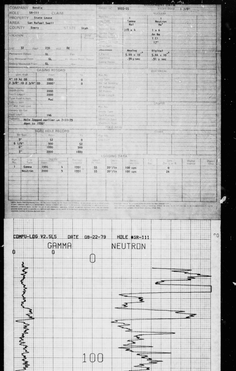
CAL STD CPS = 0000 CAL RUN CPS = 0000

PROBE # 9055A -001 PROBE CAL BIAS = +00000

TRUCK # 7664 DATA: V3L8

APPL. #5 B

P. LARSON



COMPU-LOG W2.5&5 DATE 08-02-79 HOLE NUM-111

GAMMA NEUTRON

0 0

0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

100 CPI 100 CPI

GAMMA NEUTRON

0 0

SR-111

VERTICAL DEVIATION

HOLE ID: SR-111

SCALE: 100 = 1 IN
MAG. DECLINATION:
TRUE DEPTH: 1925. FT
AZIMUTH: 195.
DISTANCE: 414.1 FT

▲ = 100 FOOT INCR
● = TOP OF ZONE
▼ = BOTTOM OF ZONE

TRUE NORTH ↑

SR-112

NEUTRON: 50 CPS/DIV

10 CPS/DIV

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1350

1450

1500

1550

1650

1700

1750

1800

1850

1900

1950

GAMMA: 10 CPS/DIV N 50 CPS/DIV

SR-112

Deviation by Bendix: Truck # 1915 Date: 6/27/79

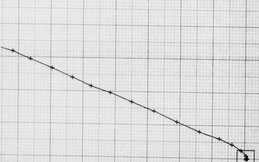
VERTICAL DEVIATION

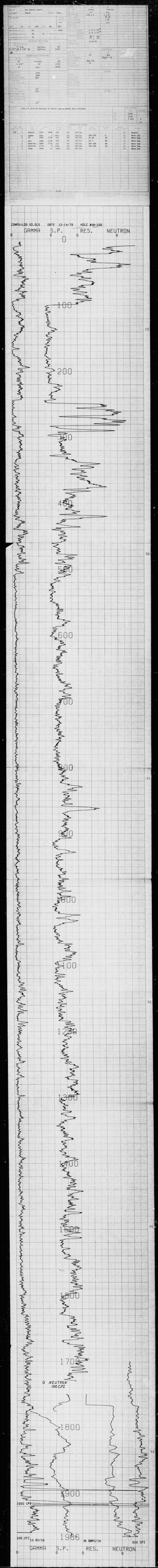
HOLE ID: SR-112

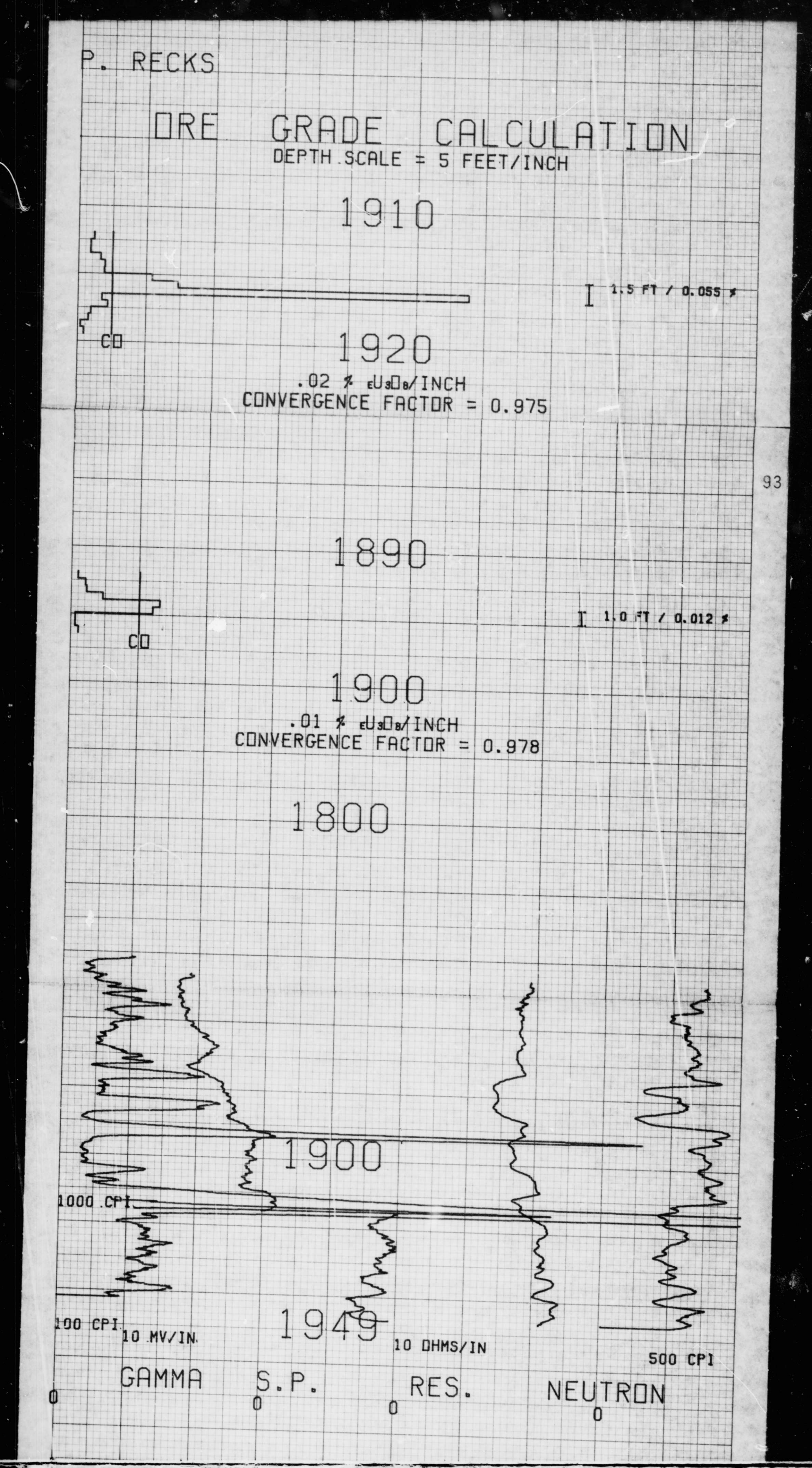
SCALE: 20 FT/IN
MAG DECL: 16.0
TRUE DEPTH: 1771. FT
AZIMUTH: 294.
DISTANCE: 164.7 FT

+ = 100 FOOT INCR
△ = TOP OF ZONE
◇ = BOTTOM OF ZONE

TRUE NORTH ↑




OMMU-LOG V2.SLS
DATE 12-14-78
HOLE #SR-202
GAMMA
S.P.
RES.
NEUTRON
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
NEUTRON
100 CPS
1000 CPS
100 CPS
10 MV/IN
10 OHMS/IN
500 CPS
GAMMA
S.P.
RES.
NEUTRON



CENTURY GEOPHYSICAL CORPORATION
Tulsa, Oklahoma

OPERATOR	P. LARSON
DATE	11/20/79
UNIT NO.	7664
FIELD OFFICE	GRAND JUNCTION
COMPANY	BENDIX FIELD ENGINEERING CORPORATION
BOREHOLE	SR-202
AREA	SAN RAFAEL SWELL
ELEVATION	
COUNTY	EMERY
STATE	UTAH
SECTION	33
TOWNSHIP	20S
RANGE	09E

HOLE DATA

TOTAL DEPTH — DRILLER	1760	BIT SIZE	6.2
TOTAL DEPTH — LOGGER	1764	CASING — TYPE & SIZE	STEEL
TOTAL FOOTAGE LOGGED	1764	CASING DEPTH	32'
LOGGING SPEED	30	BOREHOLE FLUID	H_2O
REFERENCE LEVEL	CASING TOP	FLUID RESISTIVITY	@ °F
PROBE NO.	9030A-131	SOFTWARE LEVEL	

REMARKS: CASING TO 32'
H_2O LEVEL AT 108'

EQUIPMENT DATA

		9010	9030	9050/55	9060
PROBE MODEL		9010	9030	9050/55	9060
PROBE DIAMETER		1.87"	2.0"	1.87"	1.4"
NATURAL GAMMA	DETECTOR TYPE	NaI	NaI	NaI	NaI
	DETECTOR SIZE	.875" x 1.25"	1.25" x 4.5"	.875" x 4.0"	.5" x 3.0"
	STD. K FACTOR	1.59 x 10 ⁻⁵	—	558 x 10 ⁻⁵	1.62 x 10 ⁻⁵
	STD. DEADTIME	1 μsec	—	1.18 μsec	1 μsec
	CALIB. MODEL LOC.		—		
	CALIB DATE		—		
	K FACTOR		—		
	DEADTIME		—		
	TEST READING		—		
	WATER FACTOR		—		
	CASING FACTOR		—		
DENSITY	DETECTOR TYPE	—	NaI	—	NaI
	DETECTOR SIZE	—	.5" x 1.5"	—	.5" x 3.0"
	SOURCE TYPE	—	Cs137	—	Cs137
	SOURCE NO.	—	VL-1-184	—	
	SOURCE STRENGTH	—	125mCiCs137	—	
	SOURCE SPACING	—		—	
NEUTRON	DETECTOR TYPE	—	—	He3	—
	DETECTOR SIZE	—	—	1.0" x 6.0"	—
	SOURCE TYPE	—	—	AmBe	—
	SOURCE NO.	—	—		—
	SOURCE STRENGTH	—	—		—
	SOURCE SPACING	—	—		—
SNGL. PT RESISTANCE		1.4"D x 2.5"L	—	1.4"D x 2.5"L	1.1"D x 2.5"L
RESISTIVITY		—	8" FOCUSED	—	—
SELF POTENTIAL		YES	—	YES	YES
TEMPERATURE		—	—	YES	—
DEVIATION		—	—	NO / YES	—
CALIPER		—	YES	—	—

CT-112 REV. 11-78

COMPU-LOG V3L7 PLOT 11-20-79

SR-202
BENDIX
SAN RAFAEL SWELL

HOLE DIAMETER : 06.2

CAL STD CPS = 5000
PROBE # 9030A -181
TRUCK # 7664
APPL. #30 B
P. LARSON

CAL RUN CPS = 5726
PROBE CAL BIAS = -00025
DATA: V3L8

COMPANY	BENDIX FIELD ENGINEERING CORPORATION
BOREHOLE	SR-202
AREA	SAN RAFAEL SWELL
ELEVATION	
COUNTY	EMERY
STATE	UTAH
SECTION	33
TOWNSHIP	20S
RANGE	09E

HOLE DATA

TOTAL DEPTH — DRILLER	1760′	BIT SIZE	6.2
TOTAL DEPTH — LOGGER	1763′	CASING — TYPE & SIZE	STEEL
TOTAL FOOTAGE LOGGED	1763′	CASING DEPTH	32′
LOGGING SPEED	60 FT/MIN	BOREHOLE FLUID	H_2O
REFERENCE LEVEL	CASING TOP	FLUID RESISTIVITY	@ °F
PROBE NO.	9055A-1	SOFTWARE LEVEL	

REMARKS: H_2O LEVEL AT 112′

CASING TO 32′

EQUIPMENT DATA

		9010	9030	9050/55	9060	
PROBE MODEL		9010	9030	9050/55	9060	
PROBE DIAMETER		1.87″	2.0″	1.87″	1.4″	
NATURAL GAMMA	DETECTOR TYPE	NaI	NaI	NaI	NaI	
	DETECTOR SIZE	.875″ x 1.25″	1.25″ x 4.5″	.875″ x 4.0″	.5″ x 3.0″	
	STD. K-FACTOR	1.59×10^{-5}	—	$.558 \times 10^{-5}$	1.62×10^{-5}	
	STD. DEADTIME	1 μsec	—	1.18 μsec	1 μsec	
	CALIB. MODEL LOC.		—			
	CALIB DATE		—			
	K-FACTOR		—	$.558 \times 10^{-5}$		
	DEADTIME		—	1.18 μ sec		
	TEST READING		—			
	WATER FACTOR		—			
	CASING FACTOR		—			
DENSITY	DETECTOR TYPE	—	NaI	—	NaI	
	DETECTOR SIZE	—	.5″ x 1.5″	—	.5″ x 3.0″	
	SOURCE TYPE	—	Cs^{137}	—	Cs^{137}	
	SOURCE NO.	—		—		
	SOURCE STRENGTH	—		—		
	SOURCE SPACING	—		—		
NEUTRON	DETECTOR TYPE	—	—	He^3	—	
	DETECTOR SIZE	—	—	1.0″ x 6.0″	—	
	SOURCE TYPE	—	—	AmBe	—	
	SOURCE NO.	—	—		—	
	SOURCE STRENGTH	—	—		—	
	SOURCE SPACING	—	—		—	
SNGL. PT RESISTANCE		1.4″D x 2.5″L	—	1.4″D x 2.5″L	1.1″D x 2.5″L	
RESISTIVITY		—	8″ FOCUSED	—	—	
SELF POTENTIAL		YES	—	YES	YES	
TEMPERATURE		—	—	YES	—	
DEVIATION		—	—	NO / YES	—	
CALIPER		—	YES	—	—	

CT-112 REV. 11-78

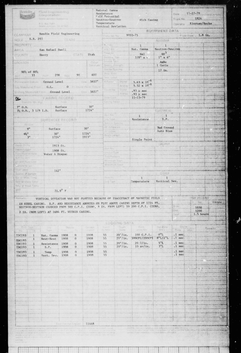
COMPU-LOG V3L7 PLOT 11-20-79

SR-202
BENDIX
SAN RAFAEL SWELL

HOLE DIAMETER : 06.2

CAL STD CPS = 0000 CAL RUN CPS = 0000
PROBE # 9055A -001 PROBE CAL BIAS = +00000
TRUCK # 7664 DATA: V3L8
APPL.#5 B
P. LARSON

CENTURY GEOPHYSICAL CORP. PART NO. 786-0022
PRINTED IN U.S.A.



COMPENSATED DENSILOG

DATE 11-27-78

HOLE NO. 203

GAMMA S.P. RES. NEUTRON

0 0 0 0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

NEUTRON 200 CPS

0 1700

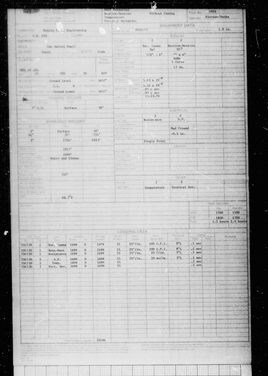
100 CPS 10 MV/IN 20 OHMS/IN 500 CPS

GAMMA S.P. RES. NEUTRON

0 0 0 0

S.R. 203

TOM KIERNAN



COMPU-LOG W2.0LS DATE: 11-27-78 HOLE NO.#: 203

GAMMA S.P. RES. NEUTRON

0 0 0 0

100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1699

100 CPS 20 MV/IN 20 OHMS/IN 500 CPS

GAMMA S.P. RES. NEUTRON

0 0 0 0

S.R. 203

TOM KIERNAN

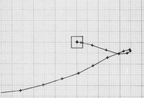
VERTICAL DEVIATION

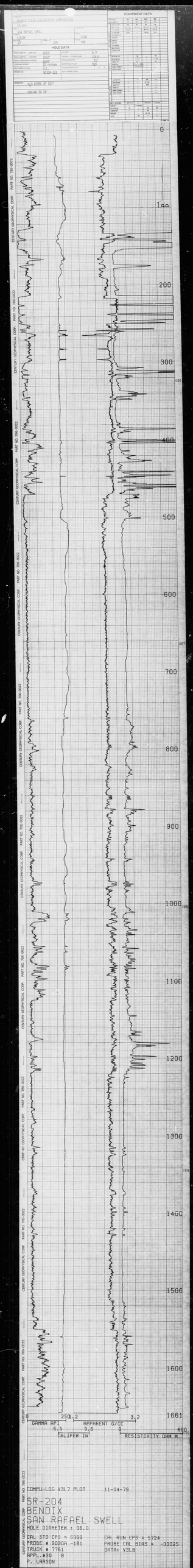
HOLE ID: S.R. 203

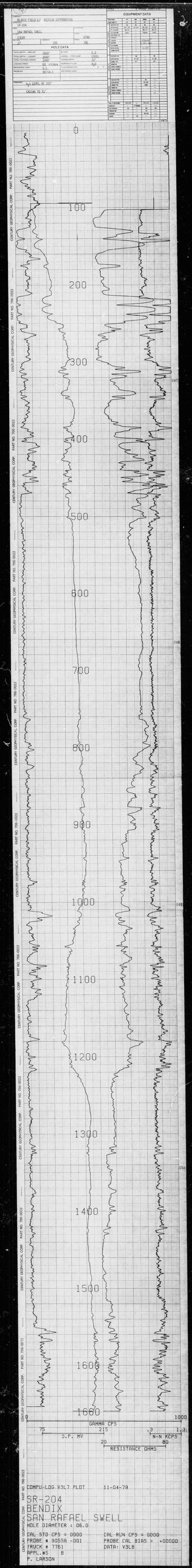
SCALE: 10 FT/IN
MAG DEC: 14.5
TRUE DEPTH: 1695. FT
AZIMUTH: 236.
DISTANCE: 42.3 FT

△= 100 FOOT INCR.
△= TOP OF ZONE
△= BOTTOM OF ZONE

TRUE NORTH ↑




CENTURY GEOPHYSICAL CORP
PART NO. 786-0022
EQUIPMENT DATA
HOLE DATA
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1661
GAMMA API
APPARENT G/CC
CALIPER IN
RESISTIVITY OHM M
COMPU-LOG V3L7 PLOT
11-04-79
SR-204
BENDIX
SAN RAFAEL SWELL
HOLE DIAMETER : 06.0
CAL STD CPS = 5000
PROBE # 90804 -181
TRUCK # 7761
APPL.#30 B
P. LARSON
CAL RUN CPS = 5724
PROBE CAL BIAS = -00025
DATA: V3L8


EQUIPMENT DATA
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1660
GAMMA CPS
75
215
3
17
S.P. MV
20
80
RESISTANCE OHMS
N-N KCPS
COMPU-LOG V3L7 PLOT
11-04-79
SR-204
BENDIX
SAN RAFAEL SWELL
HOLE DIAMETER : 06.0
CAL STD CPS = 0000
CAL RUN CPS = 0000
PROBE # 90558 -001
PROBE CAL BIAS = +00000
TRUCK # 7761
DATA: V3L8
APPL.#5
B
P. LARSON
CENTURY GEOPHYSICAL CORP.
PART NO. 786-0022

CENTURY GEOPHYSICAL CORPORATION

Tulsa, Oklahoma

OPERATOR: P. LARSON
DATE: 12/03/79
UNIT NO.: 7664
FIELD OFFICE: GRAND JUNCTION

COMPANY: BENDIX FIELD ENGINEERING CORPORATION
BOREHOLE: SR-204
AREA: SAN RAFAEL SWELL
ELEVATION:
COUNTY: EMERY
STATE: UTAH
SECTION: 27
TOWNSHIP: 20S
RANGE: 09E

HOLE DATA

TOTAL DEPTH — DRILLER	1902	BIT SIZE	3.0
TOTAL DEPTH — LOGGER	1894	CASING — TYPE & SIZE	STEEL
TOTAL FOOTAGE LOGGED	244	CASING DEPTH	1665
LOGGING SPEED	60	BOREHOLE FLUID	H_2O, GEAR OIL
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	@ °F
PROBE NO.	9055A-1	SOFTWARE LEVEL	

REMARKS: CASING TO 1665'

EQUIPMENT DATA

PROBE MODEL	9510	9830	9060PG	9640
PROBE DIAMETER	1.87"	2.0"	1.87"	1.4"
NATURAL GAMMA — DETECTOR TYPE	Nal	Nal	Nal	Nal
NATURAL GAMMA — DETECTOR SIZE	.875" x 1.25"	1.25" x 4.5"	.875" x 4.0"	.5" x 3.0"
NATURAL GAMMA — STD. K FACTOR	1.58×10^{-5}	—	$.558 \times 10^{-5}$	1.82×10^{-5}
NATURAL GAMMA — STD. DEADTIME	1 μ sec	—	1.18 μ sec	1 μ sec
NATURAL GAMMA — CALIB. MODEL LOC.		—		
NATURAL GAMMA — CALIB. DATE		—		
NATURAL GAMMA — K FACTOR		—	$.558 \times 10^{-5}$	
NATURAL GAMMA — DEADTIME		—	1.18 usec	
NATURAL GAMMA — TEST READING		—		
NATURAL GAMMA — WATER FACTOR		—		
NATURAL GAMMA — CASING FACTOR		—		
DENSITY — DETECTOR TYPE	—	Nal	—	Nal
DENSITY — DETECTOR SIZE	—	3" x 1.5"	—	3" x 3.0"
DENSITY — SOURCE TYPE	—	Cs^{137}	—	Cs^{137}
DENSITY — SOURCE NO.	—	—	—	
DENSITY — SOURCE STRENGTH	—	—	—	
DENSITY — SOURCE SPACING	—	—	—	
NEUTRON — DETECTOR TYPE	—	—	He³	—
NEUTRON — DETECTOR SIZE	—	—	1.0" x 6.0"	—
NEUTRON — SOURCE TYPE	—	—	Amlbe	—
NEUTRON — SOURCE NO.	—	—	71-1-421	—
NEUTRON — SOURCE STRENGTH	—	—	1CiAmBe	—
NEUTRON — SOURCE SPACING	—	—	—	—
SNGL. PT. RESISTANCE	1.4"D x 2.5'L	—	1.4"D x 2.5'L	1.1"D x 2.5'L
RESISTIVITY	—	8" FOCUSED	—	—
SELF POTENTIAL	YES	—	YES	YES
TEMPERATURE	—	—	YES	—
DEVIATION	—	—	NO / YES	—
CALIPER	—	YES	—	—

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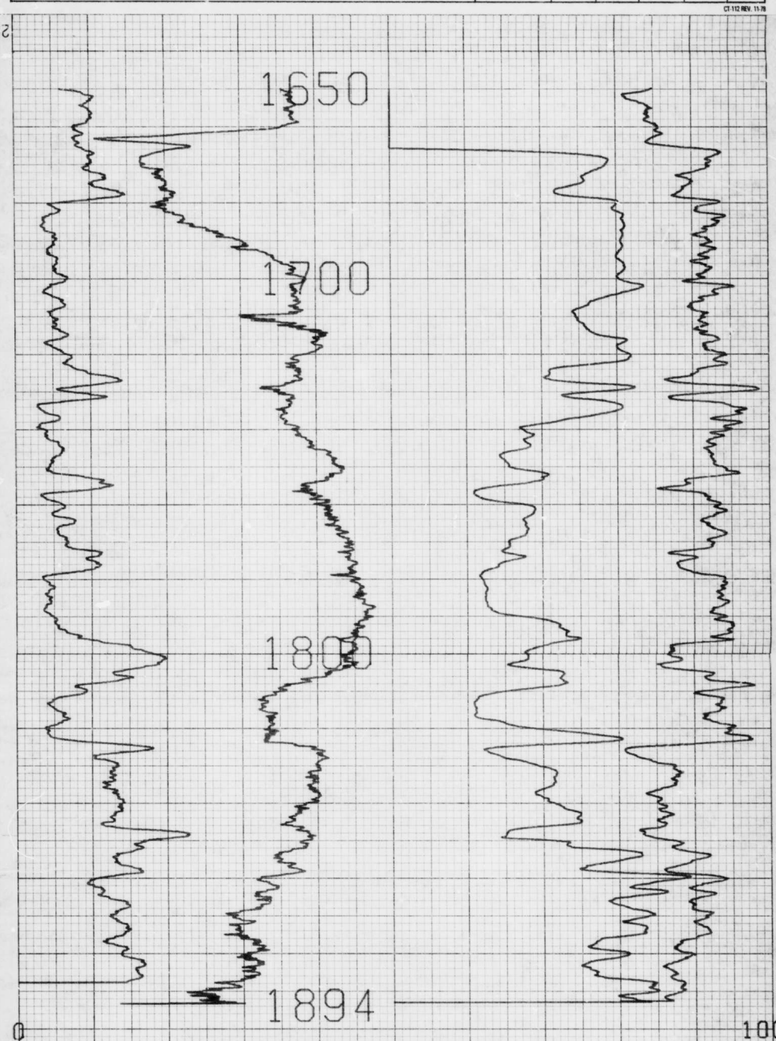

0 — 1000

GAMMA CPS

24 — 52 — .5 — 2.5

S.P. MV — N-N KCPS

10 — 50

RESISTANCE OHMS

201

COMPU-LOG V3L7 PLOT 12-03-79

SR-204
BENDIX
SAN RAFAEL SWELL
HOLE DIAMETER : 03.0

CAL STD CPS = 5000 — CAL RUN CPS = 5691
PROBE # 9055A -001 — PROBE CAL BIAS = -00025
TRUCK # 7664 — DATA: V3L8
APPL.#5 B
P. LARSON

CENTURY GEOPHYSICAL CORP. PART NO. 786-0022 PRINTED IN U.S.A.

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CENTURY GEOPHYSICAL CORPORATION
Tulsa, Oklahoma

OPERATOR: P. LARSON
DATE: 12/03/79
UNIT NO.: 7664
FIELD OFFICE: GRAND JUNCTION

COMPANY: BENDIX FIELD ENGINEERING CORPORATION
BOREHOLE: SR-204
AREA: SAN RAFAEL SWELL
ELEVATION:
COUNTY: EMERY
STATE: UTAH
SECTION: 27
TOWNSHIP: 20S
RANGE: 09E

HOLE DATA

TOTAL DEPTH — DRILLER	1902'	BIT SIZE	3.0
TOTAL DEPTH — LOGGER	1395'	CASING — TYPE & SIZE	STEEL
TOTAL FOOTAGE LOGGED	245'	CASING DEPTH	1665'
LOGGING SPEED	30 FT/MIN	BOREHOLE FLUID	H_2O GEAR OIL
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	@ °F
PROBE NO.	9030A-181	SOFTWARE LEVEL	

REMARKS: CASING TO 1665'

EQUIPMENT DATA

		9010	9030	9050/06	9060
PROBE MODEL					
PROBE DIAMETER		1.87"	2.0"	1.87"	1.4"
NATURAL GAMMA	DETECTOR TYPE	Nal	Nal	Nal	Nal
	DETECTOR SIZE	.875" x 1.25"	1.25" x 4.5"	.875" x 4.0"	.5" x 3.0"
	STD. K FACTOR	1.56 x 10^{-3}	—	566 x 10^{-3}	1.82 x 10^{-3}
	STD. TIME/TIME	1 μ sec	—	1.18 μ sec	1 μ sec
	CALIB. MODEL LOC.		—		
	CAL @ DATE		—		
	K FACTOR		—		
	DEADTIME		—		
	TEST READING		—		
	WATER FACTOR		—		
	CASING FACTOR		—		
DENSITY	DETECTOR TYPE	—	Nal	—	Nal
	DETECTOR SIZE	—	5" x 15"	—	5" x 3.8"
	SOURCE TYPE	—	Cs^{137}	—	Cs^{137}
	SOURCE NO.	—	VL-1-184	—	
	SOURCE STRENGTH	—	1.25mCi	137 —	
	SOURCE SPACING	—		—	
NEUTRON	DETECTOR TYPE	—	—	He^3	—
	DETECTOR SIZE	—	—	1.0" x 8.0"	—
	SOURCE TYPE	—	—	AmBe	—
	SOURCE NO.	—	—		—
	SOURCE STRENGTH	—	—		—
	SOURCE SPACING	—	—		—
SNGL. PT RESISTANCE		1.4"Ø x 2.5"L	—	1.4"Ø x 2.5"L	1.1"Ø x 2.5"L
RESISTIVITY		—	8" FOCUSED	—	—
SELF POTENTIAL		YES	—	YES	YES
TEMPERATURE		—	—	YES	—
DEVIATION		—	—	NO / YES	—
CALIPER		—	YES	—	—

C1 112 REV. 11 *

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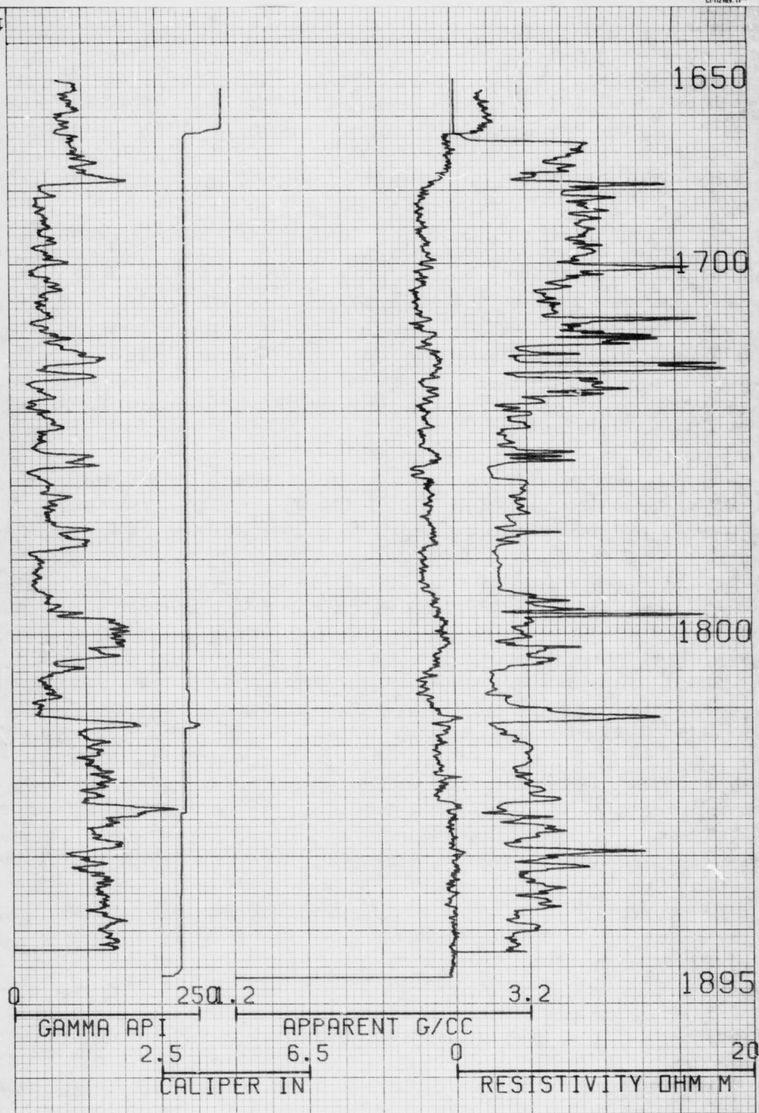

193

COMPU-LOG V3L7 PLOT 12-03-79

SR-204
BENDIX
SAN RAFAEL SWELL
HOLE DIAMETER : 03.0

CAL STD CPS = 5000
PROBE # 9030A -181
TRUCK # 7664
APPL.#30 B
P. LARSON

CAL RUN CPS = 5691
PROBE CAL BIAS = -00025
DATA: V3L8

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