

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOCD
Artesia

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMNM121941

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
CHARLIE SWEENEY FED COM 228H

2. Name of Operator
MATADOR PRODUCTION COMPANY-Email: tlink@matadorresources.com

Contact: TAMMY R LINK
Ph: 575-627-2465

9. API Well No.
30-015-44025-44028

3a. Address
5400 LBJ FREEWAY, SUITE 1500
DALLAS, TX 75240

3b. Phone No. (include area code)
Ph: 575-627-2465

10. Field and Pool or Exploratory Area
PURPLE SAGE; WOLFCAMP

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 31 T23S R28E Mer NMP SESE 188FSL 545FEL

11. County or Parish, State
EDDY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

BLM BOND No. NMB001079
Surety Bond No. RLB0015172

See attached Logs and Directional Survey.

NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 12 2018

RECEIVED

SC 3-15-18
Accepted for record - NMOCD

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #402086 verified by the BLM Well Information System
For MATADOR PRODUCTION COMPANY, sent to the Carlsbad
Committed to AFMSS for processing by JENNIFER SANCHEZ on 02/28/2018 ()

Name (Printed/Typed) TAMMY R LINK

Title PRODUCTION MANAGER

Signature (Electronic Submission)

Date 01/24/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****



QES Directional Service

Charlie Sweeney Fed Com #228H

Scale 5":100' - MD

11/2/2017 9:31 AM

Oper. Company: Matador Resources Company

Well: Charlie Sweeney Fed Com #228H

Field: Wolfcamp B

Rig: Patterson 282

Well ID: 30-015-44028

Job Number: WT-171092

State: NM

County: Eddy

Country: USA

Location:

Start Date: 10/11/2017 09:45:00

End Date: 11/01/2017 19:10:00

Latitude: 32° 15' 16.675 N

Longitude: 104° 7' 10.240 W

Elev GL: 3,101'

Elev DF: 3,130'

Elev KB: 3,130'

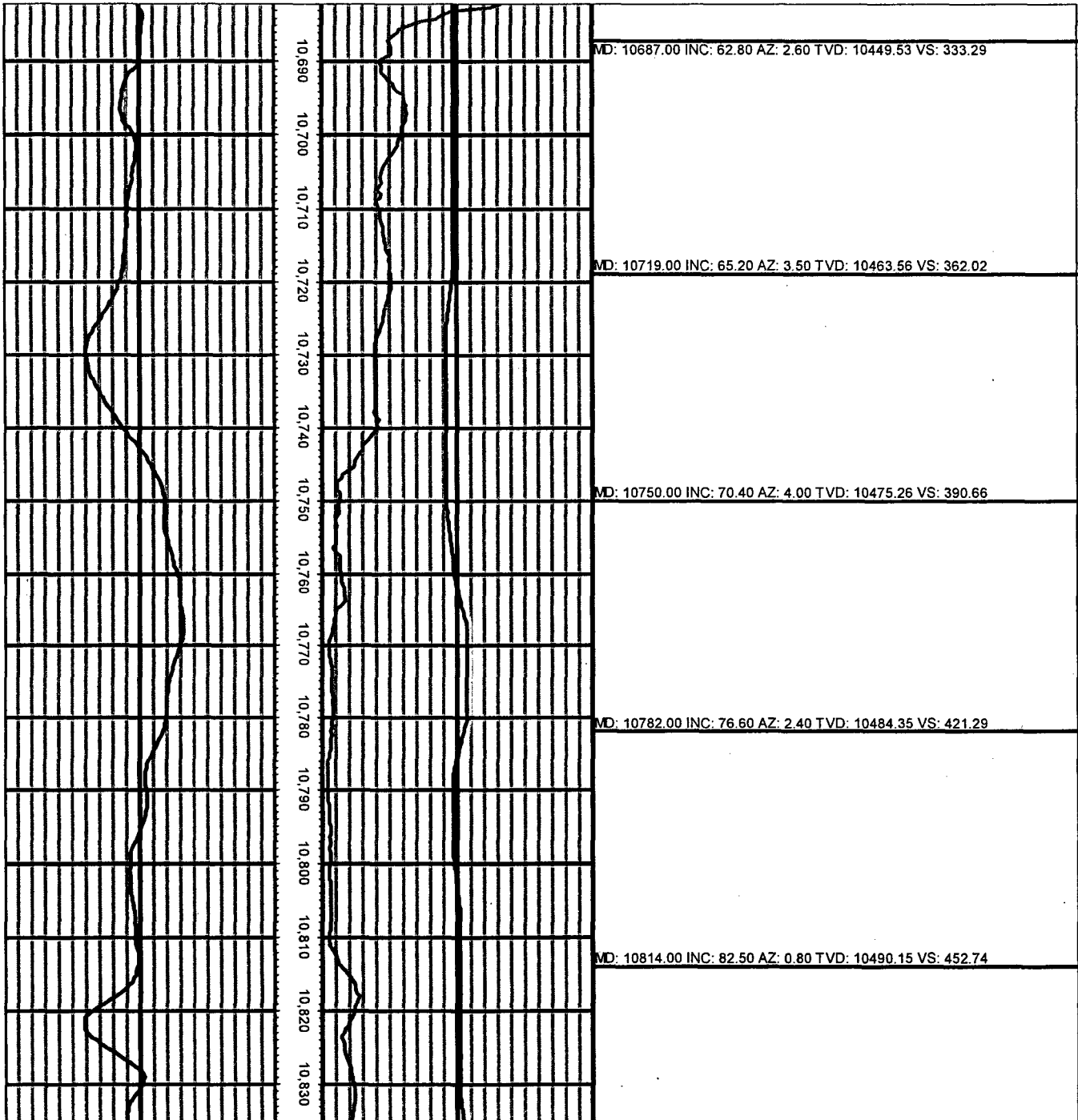
Operator 1: Jason Dobbs

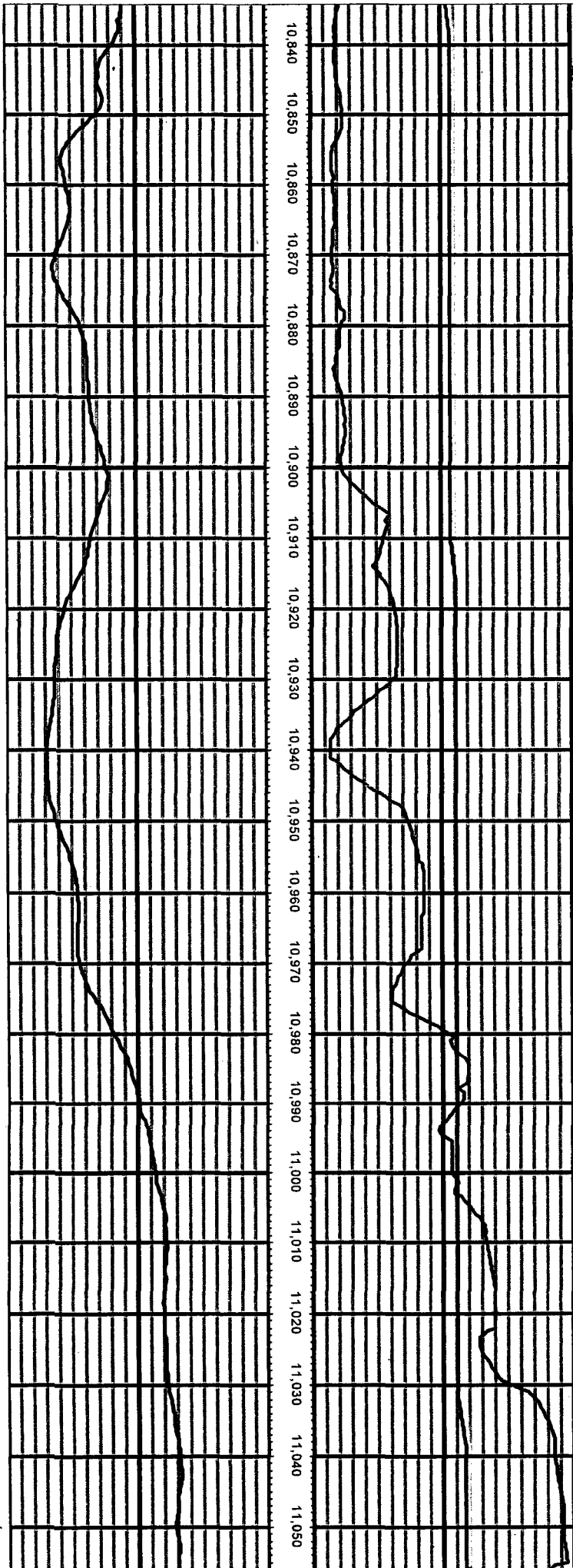
Operator 2: Jason Lindgren

Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	175	175	175	175	128
Bit Size	6 1/8"	6 1/8"	6 1/8"	6 1/8"	6 1/8"
Cal Factor	2.25	2.25	2.25	2.25	2.25
Survey Offset	52.00	51.00	54.00	54.00	59.00
Gamma Offset	40.00	39.00	42.00	42.00	47.00
Resistivity Offset	0.00	0.00	0.00	0.00	0.00
Start Depth	10682.00	10757.00	10810.00	11470.00	12681.00
StartDate	10/11/2017	10/12/2017	10/14/2017	10/15/2017	10/18/2017
StartTime	09:45	16:00	02:10	23:00	20:00
EndDepth	10757.00	10810.00	11470.00	12681.00	14707.00
EndDate	10/12/2017	10/14/2017	10/15/2017	10/18/2017	10/22/2017
EndTime	14:30	01:30	20:30	19:00	17:30
Mud Type	OBM	OBM	OBM	OBM	OBM
Mud Weight	12.9	13.0	13.0	13.1	13.4
Funnel Viscosity	80	87	78	74	88
Plastic Viscosity	21	21	18	18	20
Yield Point	22	22	17	20	18
Gel Strength	11/16/21	11/19/21	10/16/20	11/16/19	11/16/19
Solids Content	23.8	23.8	23.1	24.1	24.8
Chlorides	39000	35500	35000	35000	38000
Temperature	145	145	176	190	205
Tool Run Data	Run #6	Run #7	Run #8	Run #9	Run #10
Tool S/N	536				
Bit Size	6 1/8"				
Cal Factor	2.25				
Survey Offset	57.00				
Gamma Offset	44.00				
Resistivity Offset	0.00				
Start Depth	14707.00				
StartDate	10/31/2017				
StartTime	12:45				
EndDepth	15247.00				
EndDate	11/1/2017				
EndTime	19:10				
Mud Type	OBM				
Mud Weight	13.4				
Funnel Viscosity	83				
Plastic Viscosity	20				
Yield Point	18				

Gel Strength	10/15/21				
Solids Content	25.0				
Chlorides	33000				
Temperature	190				
Hole Data			Casing Data		
Size	From	To	Size	From	To
24"	0.00	120.00	20"	0.00	120.00
17 1/2"	120.00	350.00	13 3/8"	0.00	350.00
12 1/4"	350.00	2470.00	9 5/8"	0.00	2470.00
8 3/4"	2470.00	10667.00	7 5/8"	0.00	9786.00
6 1/8"	10667.00	15247.00	7"	9786.00	10667.00
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost damages or expenses incurred or sustained by anyone resulting from an interpretation made by any of our officers, agents, or employees.					

0.00	GR(API)	150.00	MD	0.00	ROP(FT/HR)	150.00	Surveys (MD/INC/AZ/TVD/VS)
150.00	2	300.00	FT	150.00	2	300.00	
				0.00	TEMP(degF)	300.00	

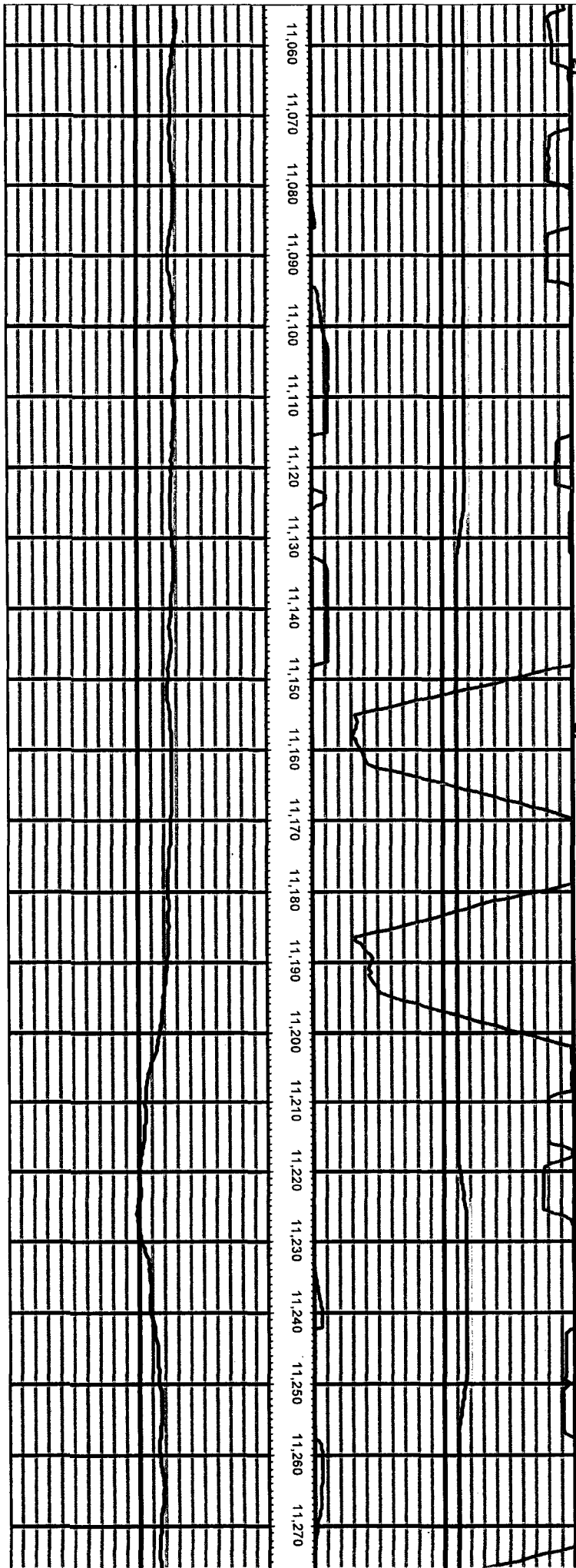




MD: 10845.00 INC: 86.30 AZ: 359.70 TVD: 10493.18 VS: 483.59

MD: 10876.00 INC: 89.20 AZ: 359.90 TVD: 10494.39 VS: 514.56

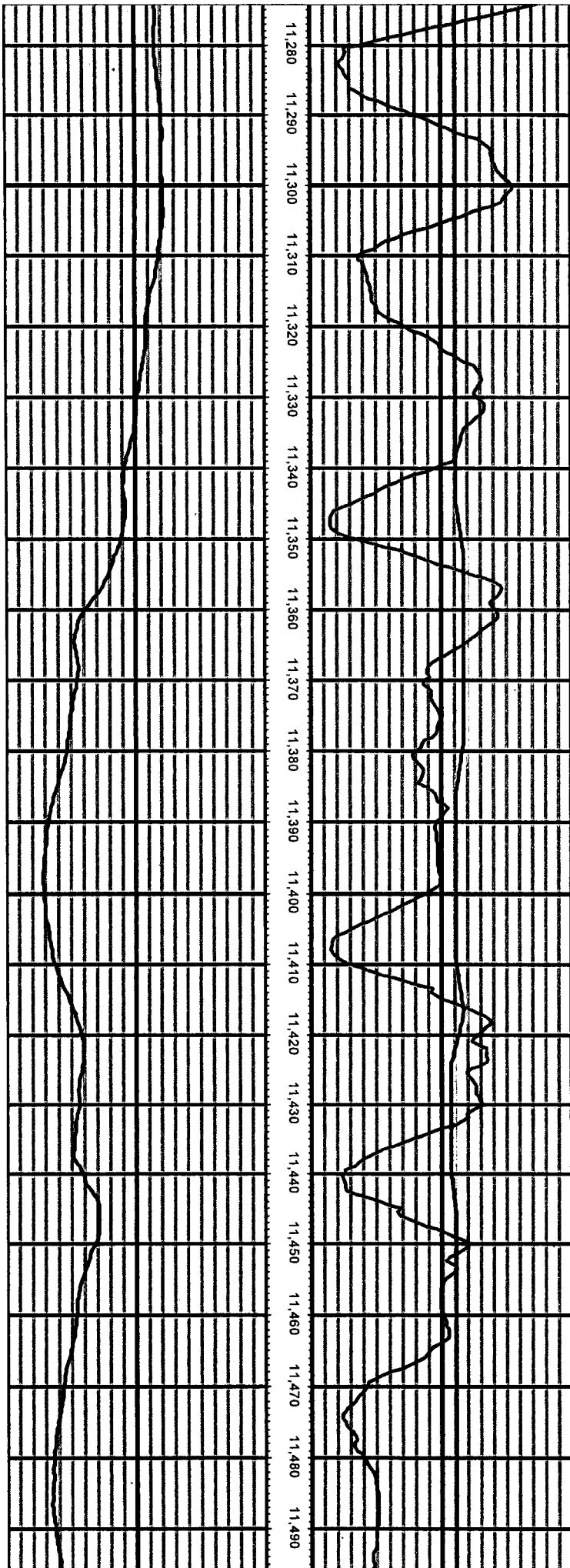
MD: 10970.00 INC: 92.50 AZ: 359.20 TVD: 10493.00 VS: 608.52



MD: 11064.00 INC: 92.00 AZ: 0.70 TVD: 10489.31 VS: 702.44

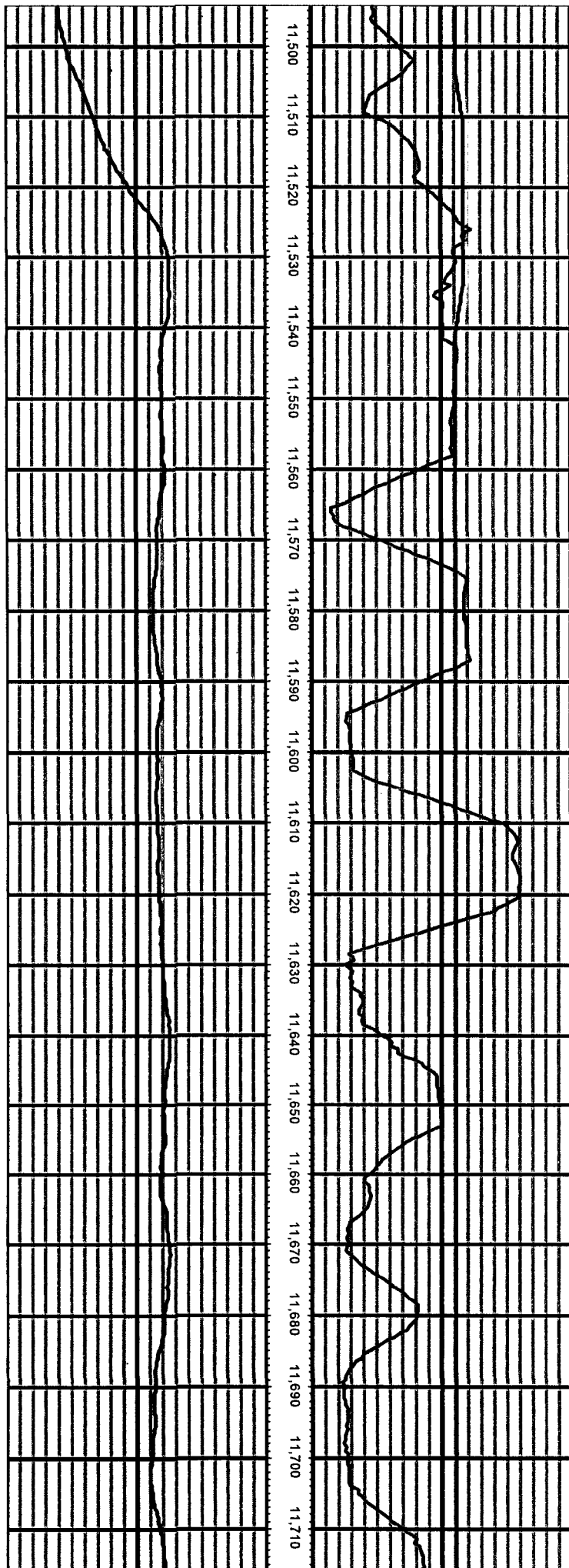
MD: 11158.00 INC: 91.60 AZ: 359.70 TVD: 10486.36 VS: 796.39

MD: 11252.00 INC: 89.80 AZ: 358.40 TVD: 10485.21 VS: 890.35



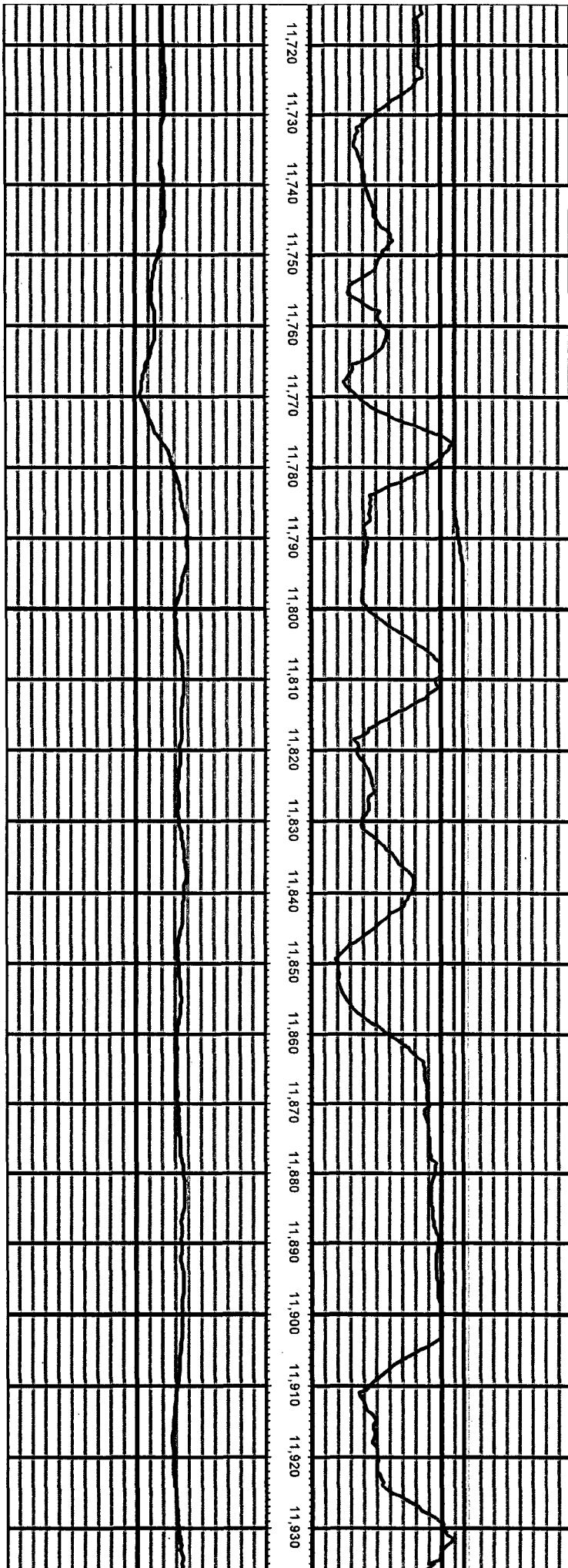
MD: 11347.00 INC: 93.20 AZ: 359.90 TVD: 10482.72 VS: 985.28

MD: 11441.00 INC: 94.90 AZ: 359.40 TVD: 10476.08 VS: 1079.03



MD: 11535.00 INC: 95.30 AZ: 359.20 TVD: 10467.73 VS: 1172.63

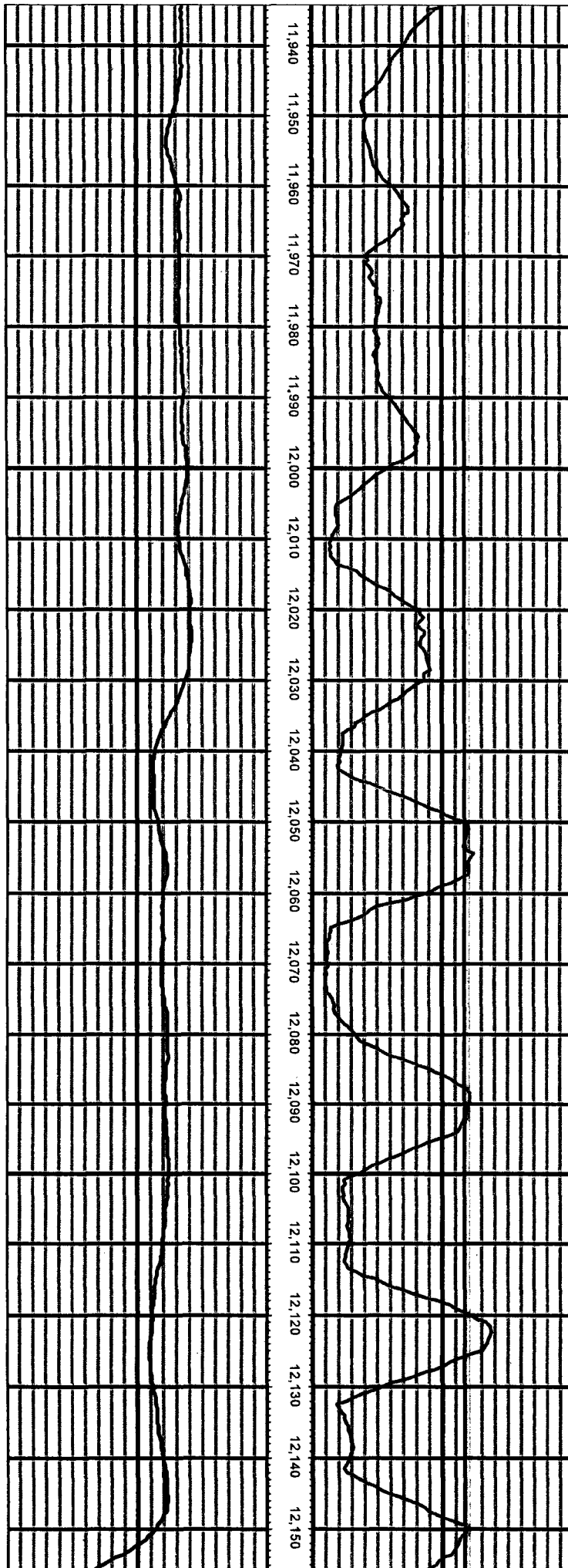
MD: 11629.00 INC: 94.10 AZ: 0.70 TVD: 10460.02 VS: 1266.31



MD: 11724.00 INC: 91.70 AZ: 3.00 TVD: 10455.22 VS: 1361.15

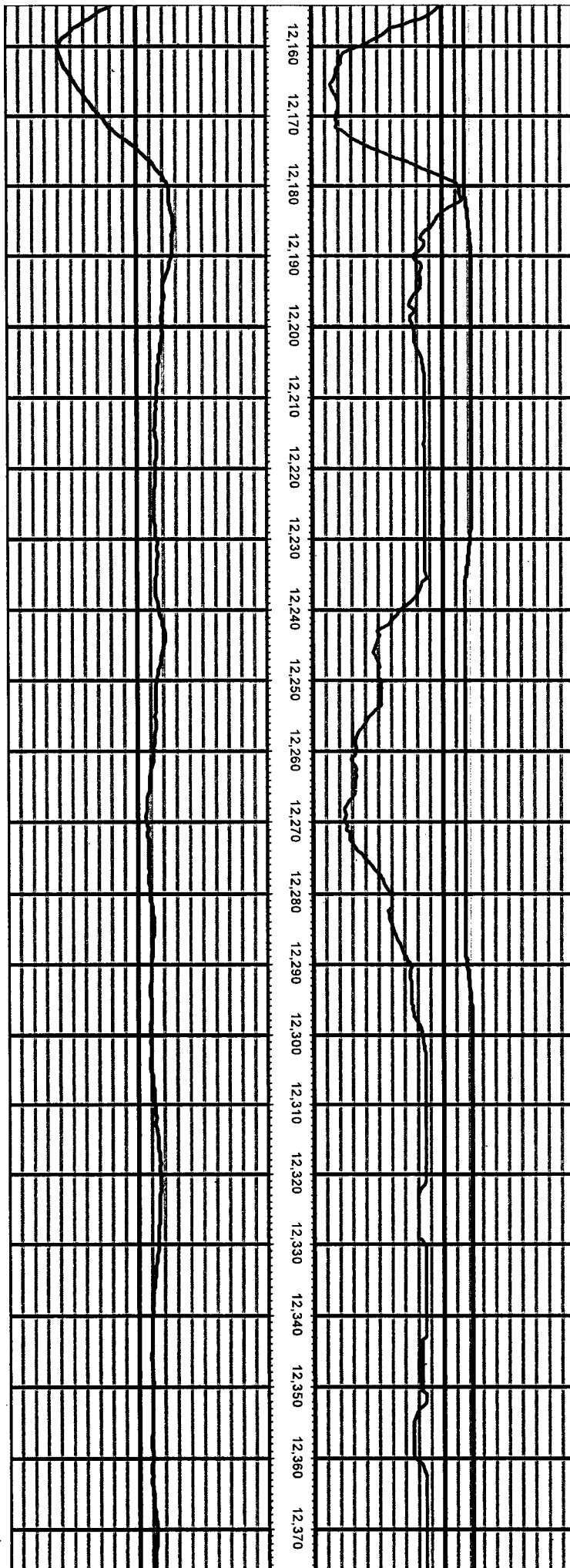
MD: 11819.00 INC: 87.70 AZ: 4.40 TVD: 10455.71 VS: 1455.98

MD: 11913.00 INC: 86.20 AZ: 4.30 TVD: 10460.72 VS: 1549.63



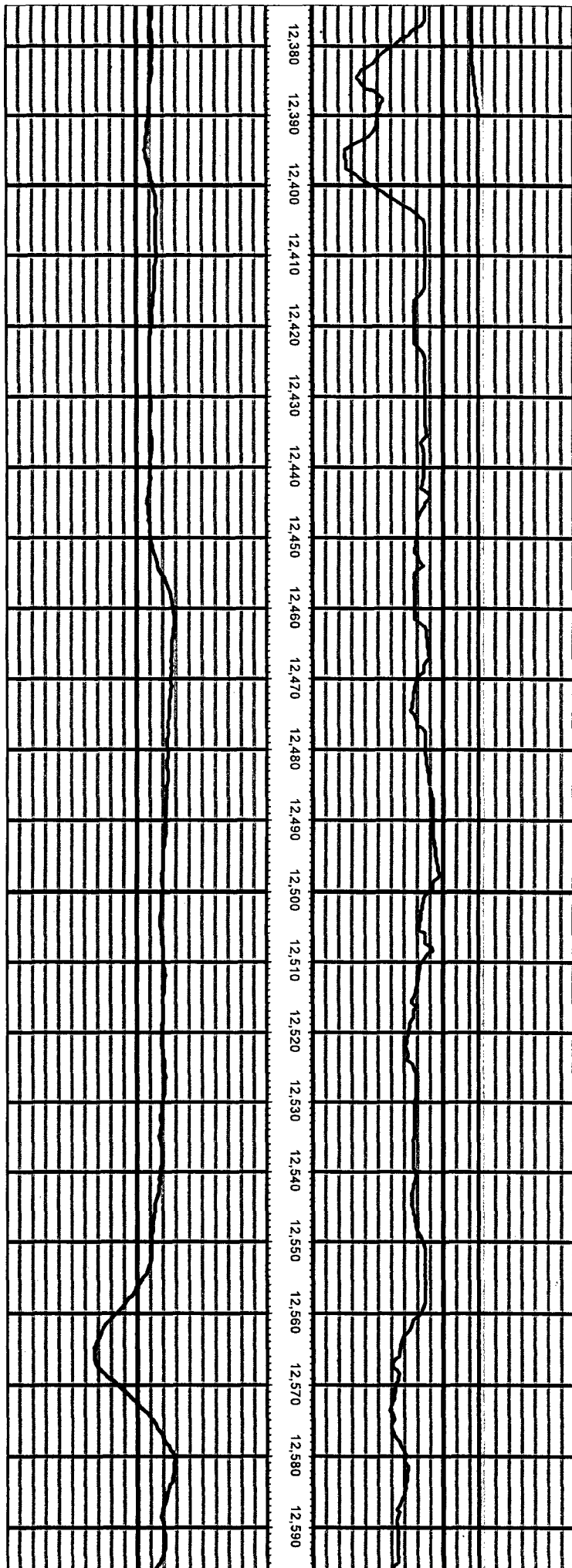
MD: 12008.00 INC: 84.60 AZ: 1.80 TVD: 10468.33 VS: 1644.22

MD: 12102.00 INC: 85.90 AZ: 0.00 TVD: 10476.12 VS: 1737.88



MD: 12197.00 INC: 87.50 AZ: 358.90 TVD: 10481.59 VS: 1832.71

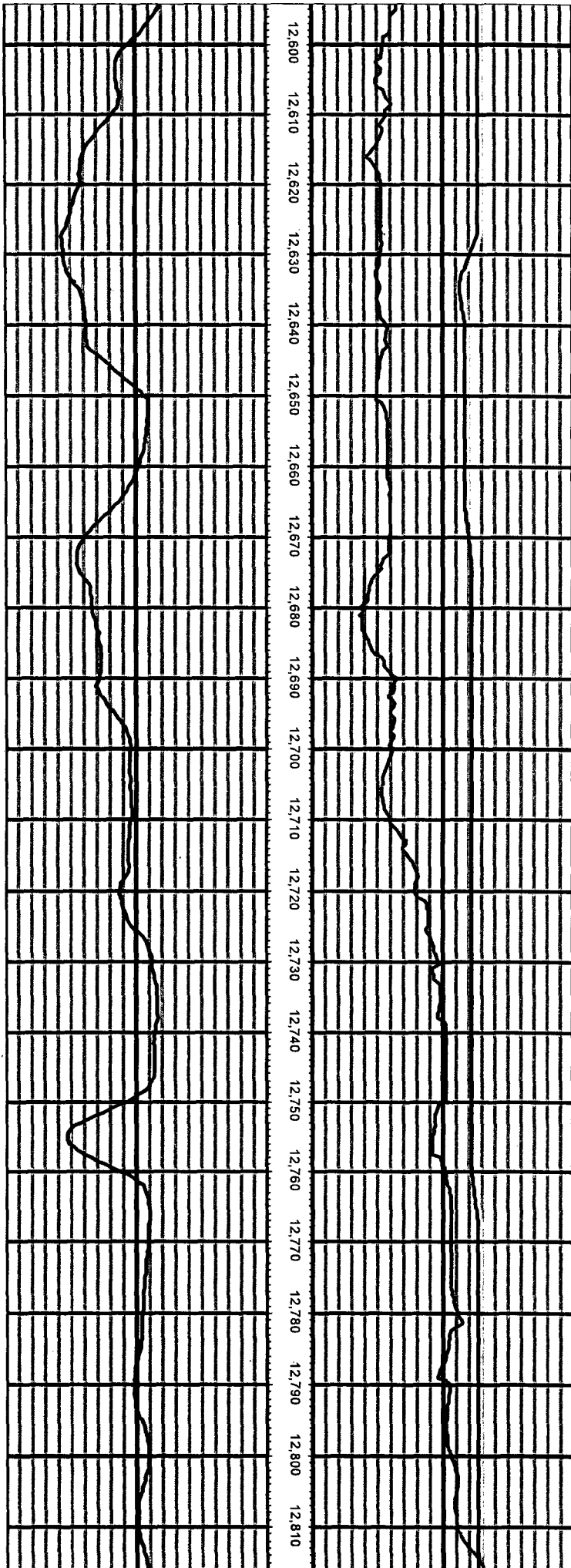
MD: 12291.00 INC: 89.00 AZ: 359.10 TVD: 10484.46 VS: 1926.63



MD: 12385.00 INC: 89.60 AZ: 359.40 TVD: 10485.61 VS: 2020.60

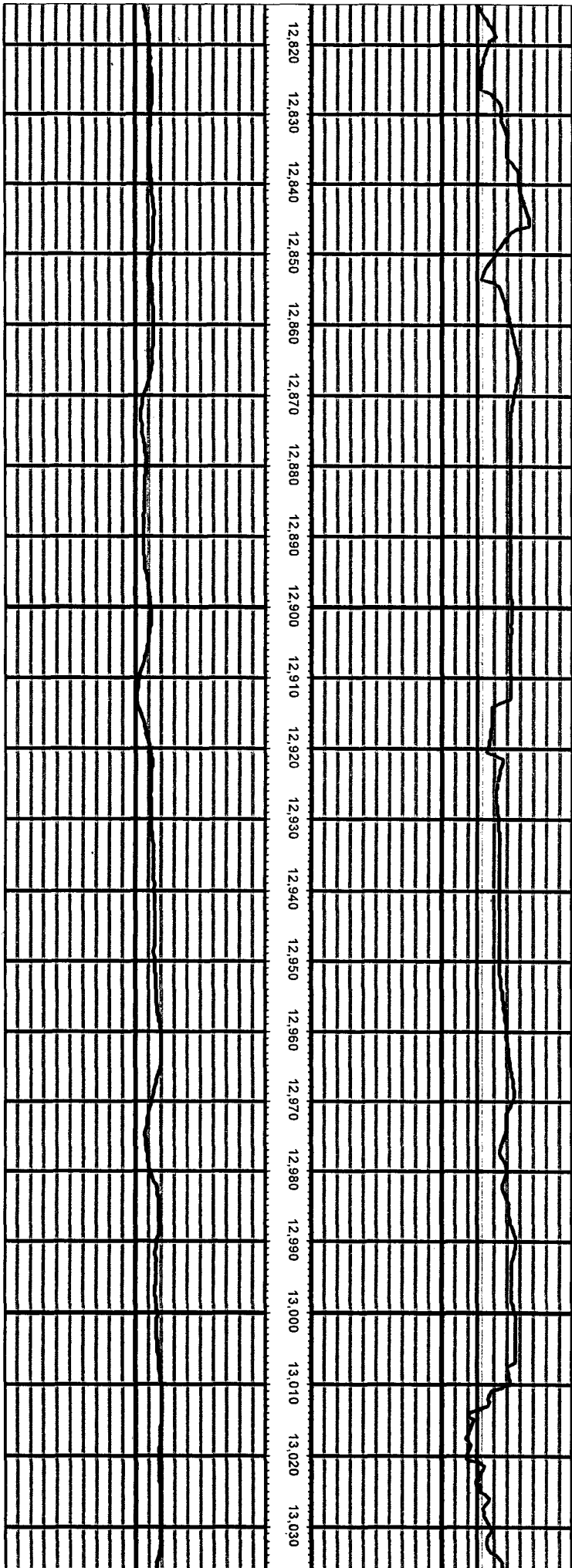
MD: 12480.00 INC: 89.60 AZ: 0.10 TVD: 10486.27 VS: 2115.59

MD: 12573.00 INC: 90.30 AZ: 0.10 TVD: 10486.35 VS: 2208.59



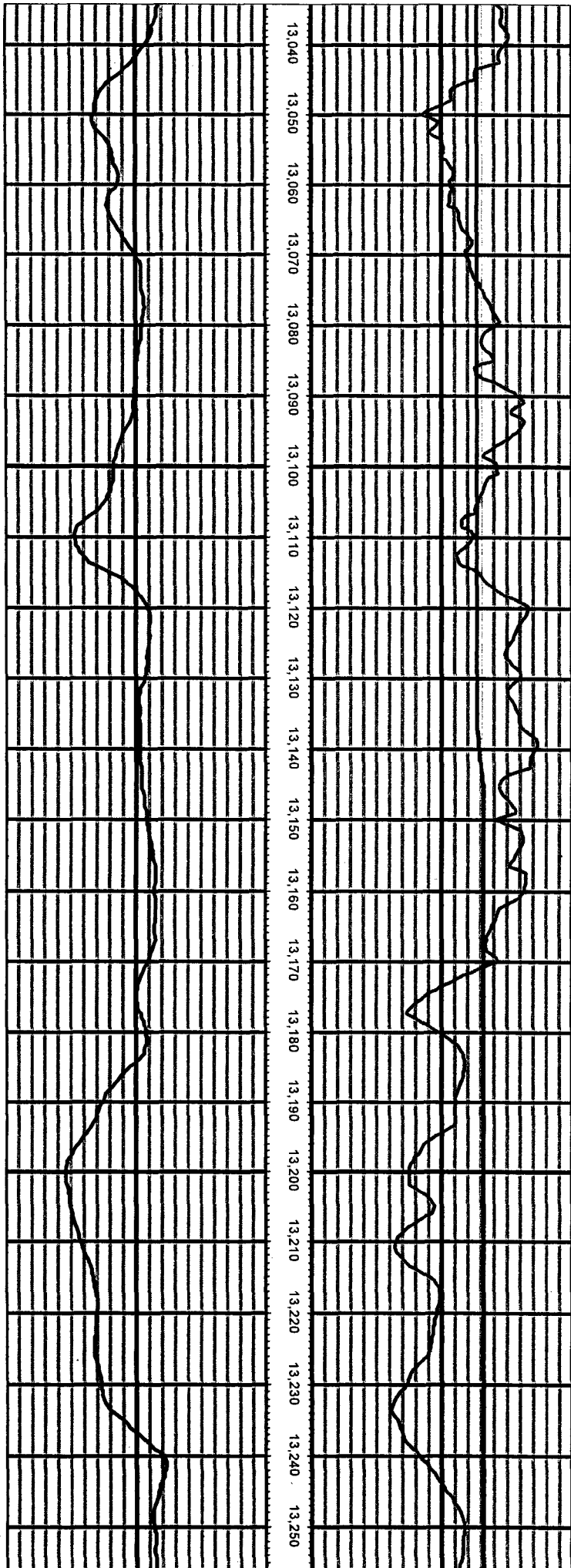
MD: 12667.00 INC: 90.80 AZ: 0.60 TVD: 10485.45 VS: 2302.58

MD: 12761.00 INC: 90.70 AZ: 0.70 TVD: 10484.22 VS: 2396.57



MD: 12855.00 INC: 89.90 AZ: 0.40 TVD: 10483.73 VS: 2490.57

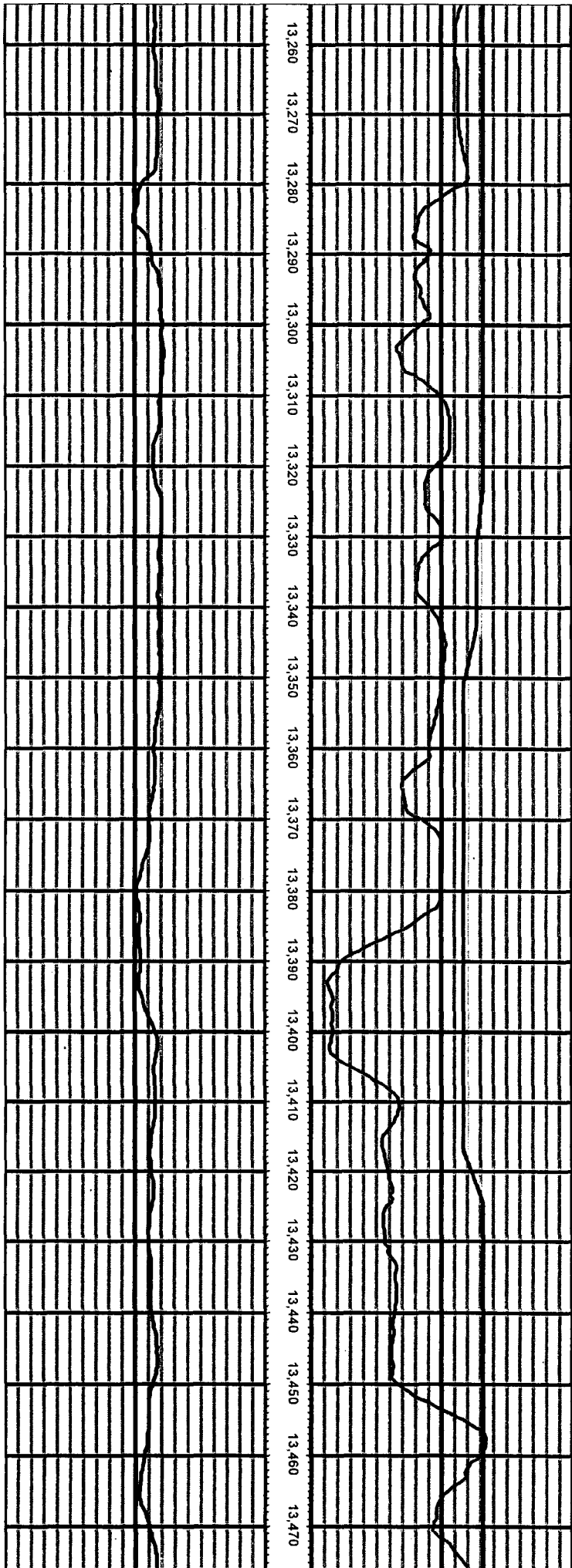
MD: 12949.00 INC: 89.60 AZ: 0.30 TVD: 10484.14 VS: 2584.57



MD: 13044.00 INC: 88.50 AZ: 359.90 TVD: 10485.71 VS: 2679.55

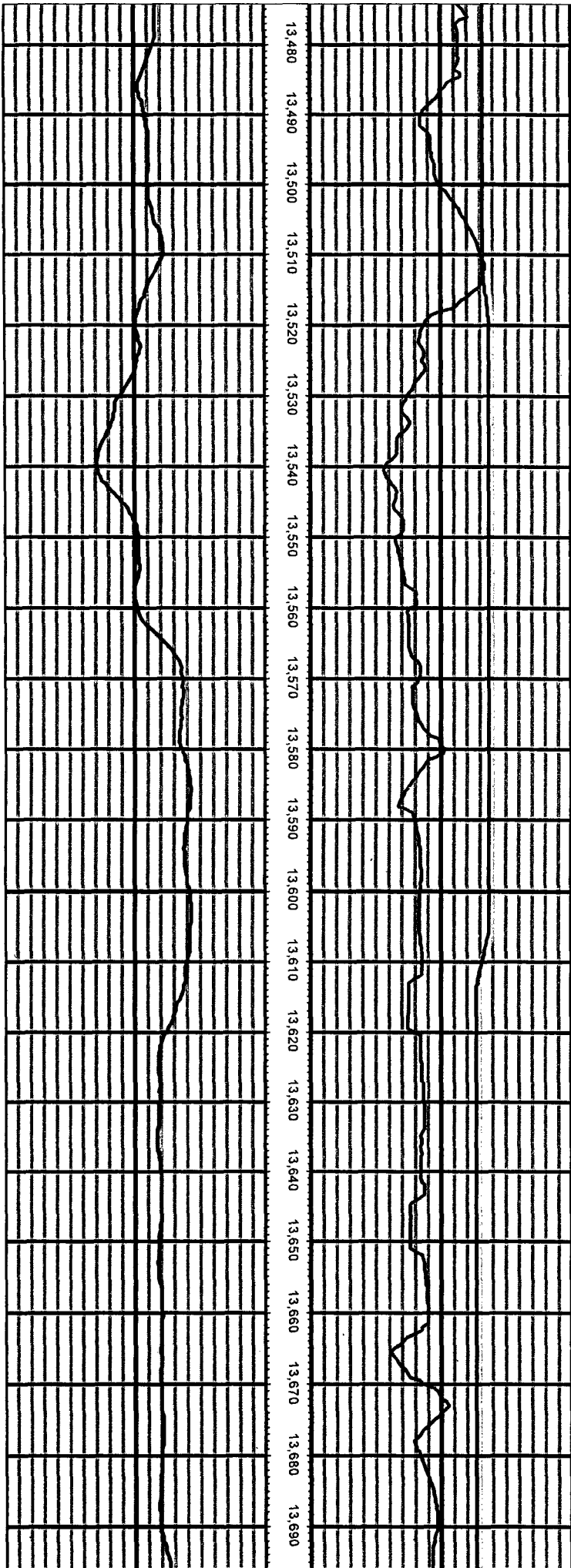
MD: 13138.00 INC: 88.80 AZ: 359.90 TVD: 10487.93 VS: 2773.52

MD: 13231.00 INC: 88.30 AZ: 359.60 TVD: 10490.28 VS: 2866.48



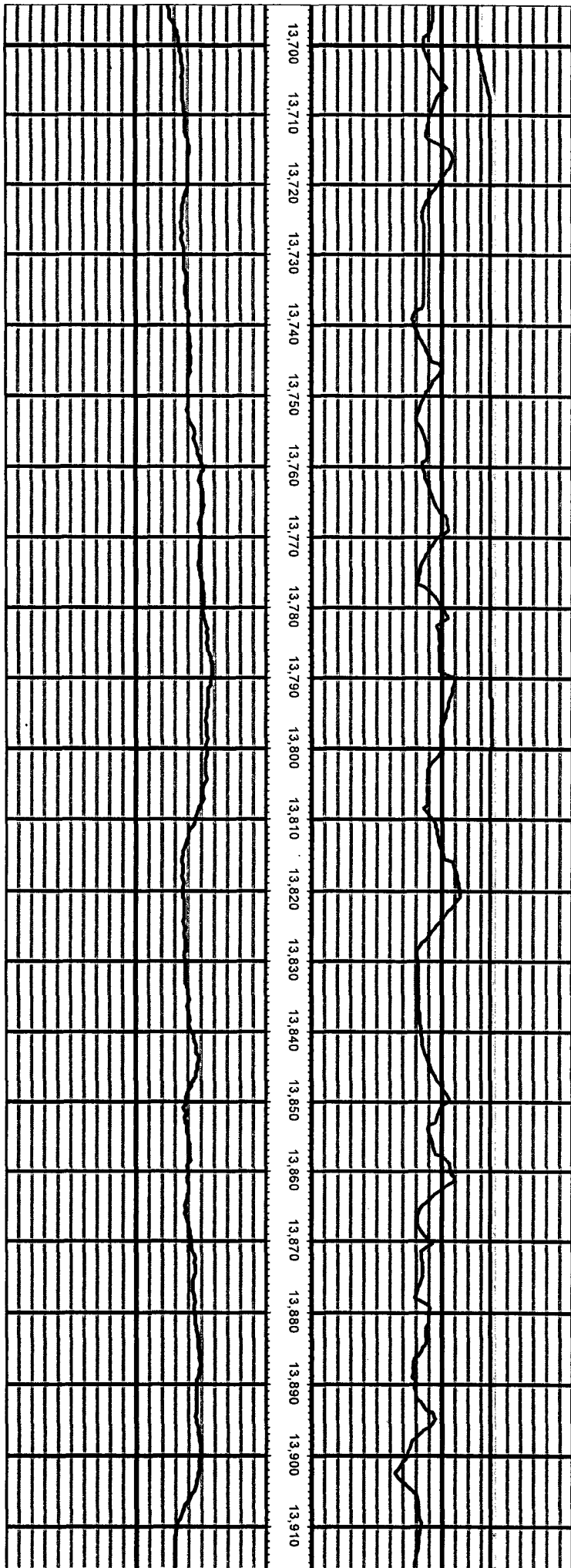
MD: 13325.00 INC: 87.80 AZ: 359.30 TVD: 10493.48 VS: 2960.41

MD: 13419.00 INC: 89.40 AZ: 0.20 TVD: 10495.77 VS: 3054.37



MD: 13513.00 INC: 89.40 AZ: 0.80 TVD: 10496.76 VS: 3148.37

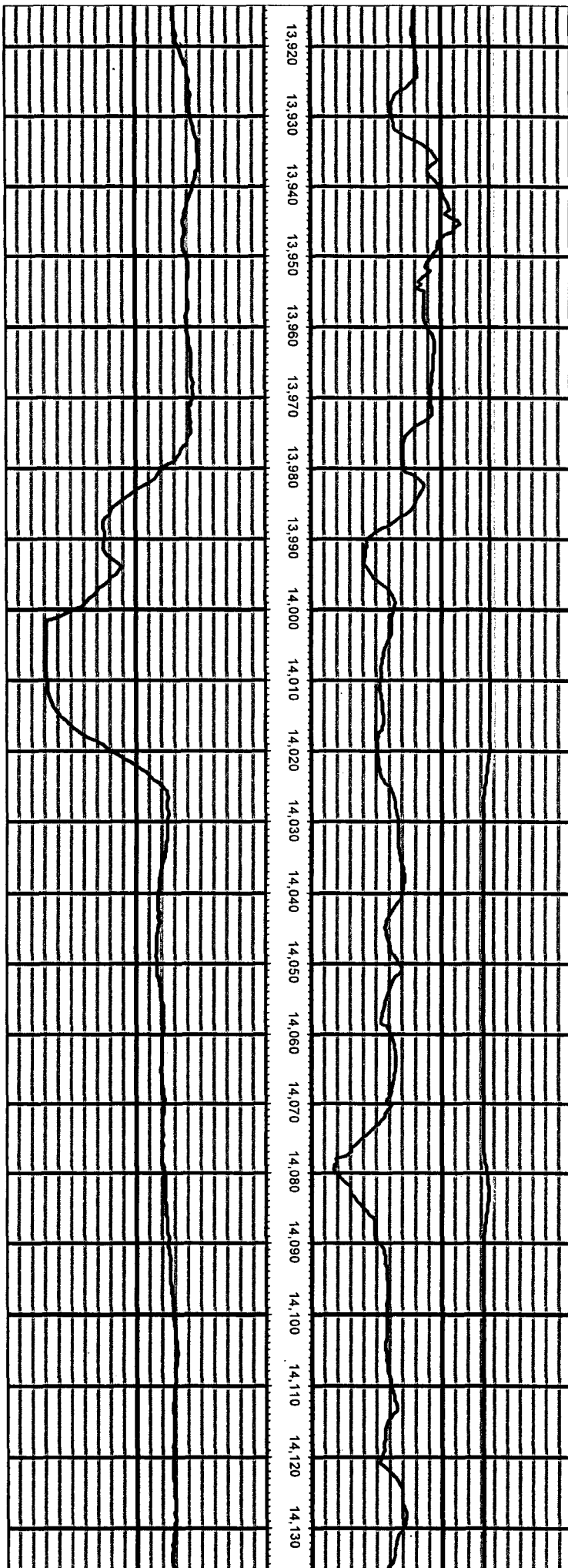
MD: 13607.00 INC: 88.70 AZ: 1.00 TVD: 10498.32 VS: 3242.35



MD: 13701.00 INC: 91.30 AZ: 1.60 TVD: 10498.32 VS: 3336.33

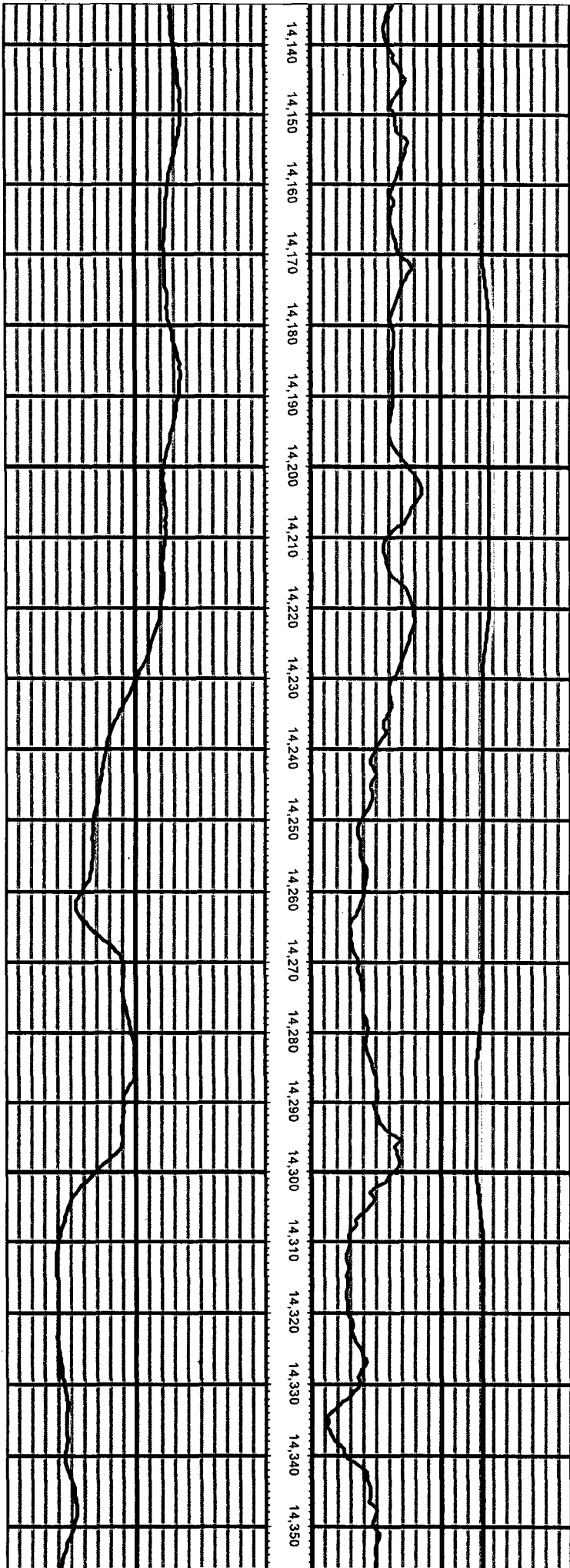
MD: 13795.00 INC: 91.40 AZ: 2.20 TVD: 10496.10 VS: 3430.28

MD: 13890.00 INC: 91.20 AZ: 2.40 TVD: 10493.95 VS: 3525.21



MD: 13983.00 INC: 89.90 AZ: 1.70 TVD: 10493.05 VS: 3618.16

MD: 14077.00 INC: 89.10 AZ: 1.40 TVD: 10493.88 VS: 3712.14



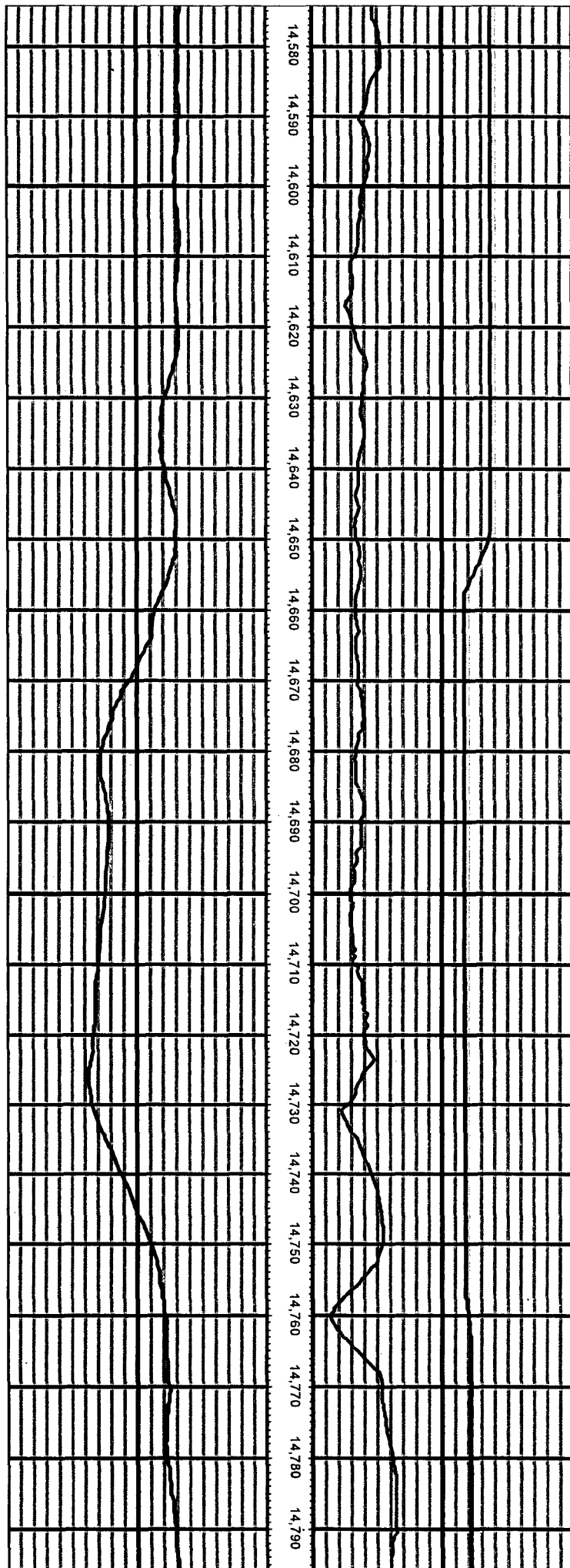
MD: 14172.00 INC: 88.80 AZ: 1.40 TVD: 10495.62 VS: 3807.12

MD: 14266.00 INC: 89.80 AZ: 2.00 TVD: 10496.76 VS: 3901.09

MD: 14359.00 INC: 88.00 AZ: 2.10 TVD: 10498.55 VS: 3994.03

MD: 14453.00 INC: 86.70 AZ: 2.50 TVD: 10502.90 VS: 4087.88

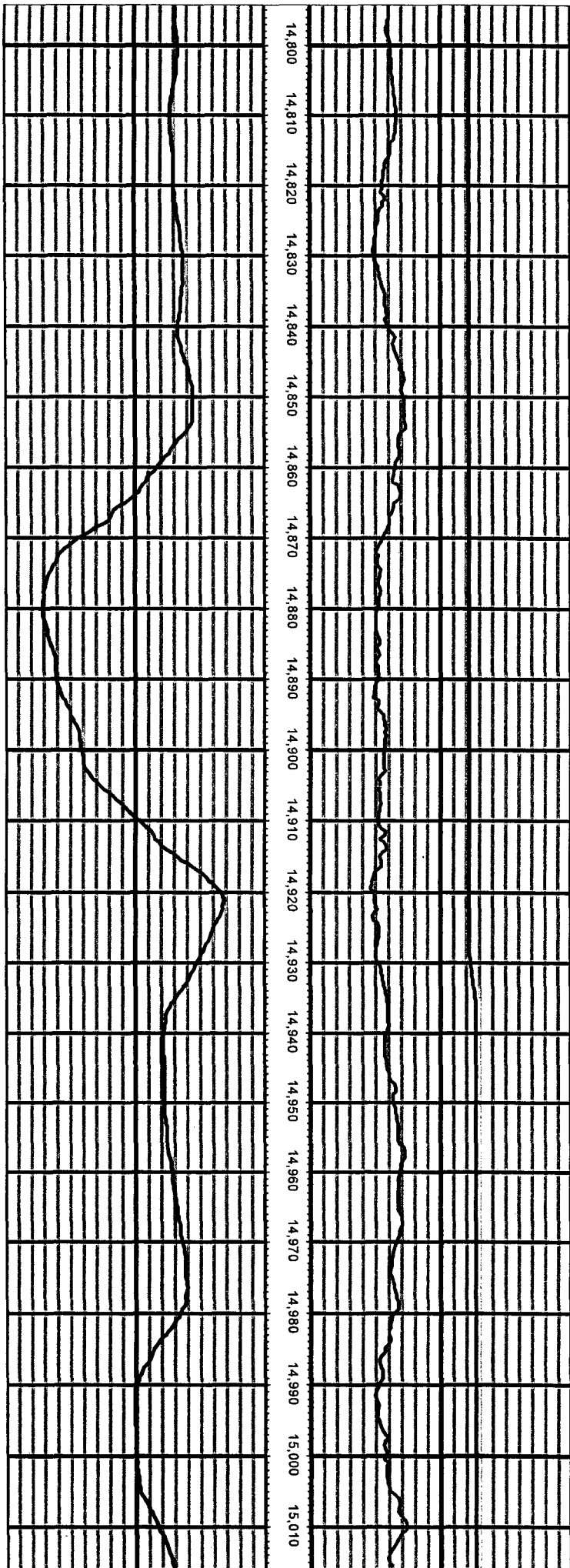
MD: 14547.00 INC: 86.40 AZ: 2.20 TVD: 10508.55 VS: 4181.66



14,580 14,590 14,600 14,610 14,620 14,630 14,640 14,650 14,660 14,670 14,680 14,690 14,700 14,710 14,720 14,730 14,740 14,750 14,760 14,770 14,780 14,790

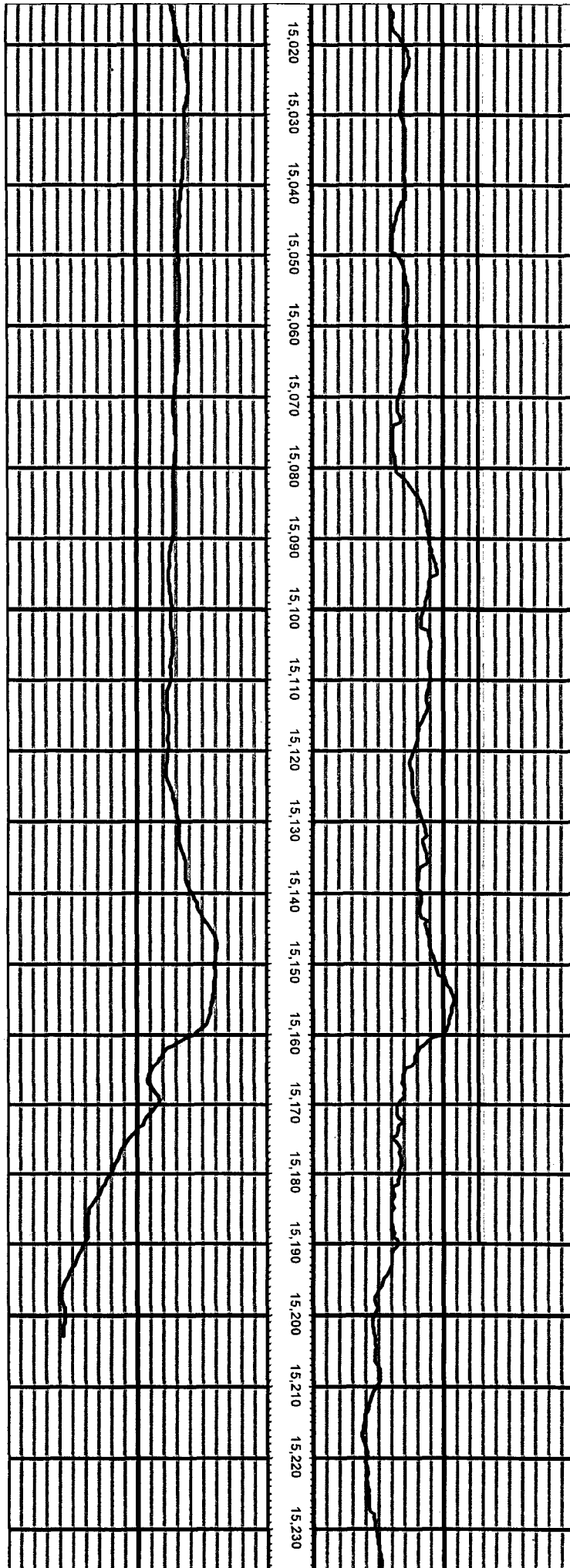
MD: 14641.00 INC: 86.10 AZ: 2.10 TVD: 10514.70 VS: 4275.42

MD: 14757.00 INC: 87.40 AZ: 1.70 TVD: 10521.28 VS: 4391.20



MD: 14852.00 INC: 87.70 AZ: 1.00 TVD: 10525.34 VS: 4486.10

MD: 14946.00 INC: 88.10 AZ: 1.80 TVD: 10528.78 VS: 4580.02



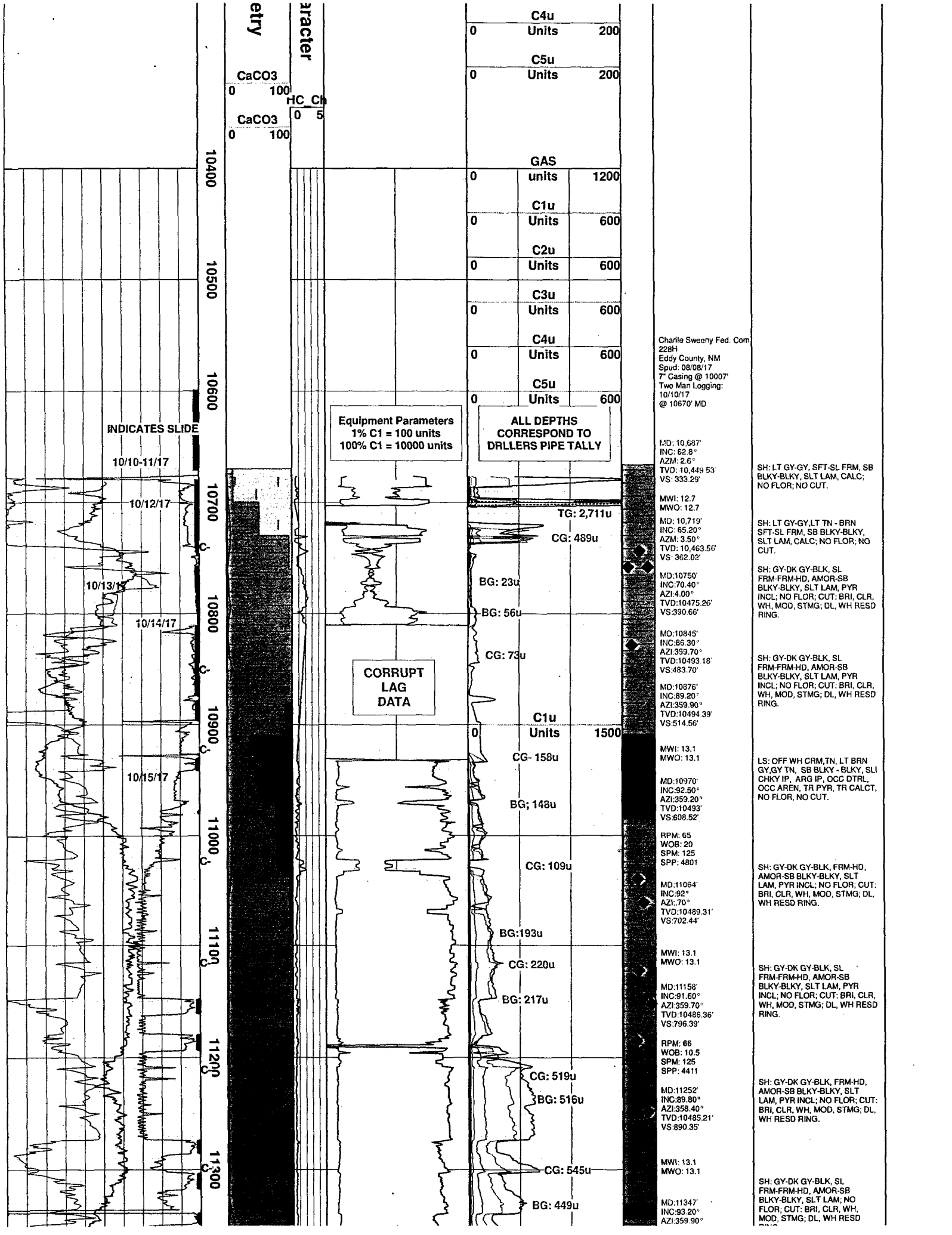
MD: 15040.00 INC: 92.80 AZ: 3.70 TVD: 10528.04 VS: 4673.92

MD: 15134.00 INC: 92.80 AZ: 2.70 TVD: 10523.45 VS: 4767.70

MD: 15190.00 INC: 92.80 AZ: 2.50 TVD: 10520.72 VS: 4823.59



0.00	GR(API)	150.00	MD	0.00	ROP(FT/HR)	150.00	Surveys (MD/INC/AZ/TVD/VS)
150.00	2	300.00	FT	150.00	2	300.00	
				0.00	TEMP(degF)	300.00	



entry
aracter
CaCO3
0 100
CaCO3
0 100
HC Ch
0 5

0	C4u	Units	200
0	C5u	Units	200
0	GAS	units	1200
0	C1u	Units	600
0	C2u	Units	600
0	C3u	Units	600
0	C4u	Units	600
0	C5u	Units	600

Equipment Parameters
1% C1 = 100 units
100% C1 = 10000 units

ALL DEPTHS
CORRESPOND TO
DRILLERS PIPE TALLY

Charlie Sweeny Fed. Com
228H
Eddy County, NM
Spud: 08/08/17
7" Casing @ 10007'
Two Man Logging:
10/10/17
@ 10670' MD

MD: 10,687'
INC: 62.8°
AZM: 2.6°
TVD: 10,449.53'
VS: 333.29'

MWI: 12.7
MWO: 12.7
MD: 10,719'
INC: 65.20°
AZM: 3.50°
TVD: 10,475.26'
VS: 362.02'

MD: 10,750'
INC: 70.40°
AZI: 4.00°
TVD: 10,475.26'
VS: 390.66'

MD: 10,845'
INC: 86.30°
AZI: 359.70°
TVD: 10,493.18'
VS: 483.70'

MD: 10,976'
INC: 89.20°
AZI: 359.90°
TVD: 10,494.39'
VS: 514.56'

MWI: 13.1
MWO: 13.1
MD: 10,970'
INC: 92.50°
AZI: 359.20°
TVD: 10,493'
VS: 608.52'

RPM: 65
WOB: 20
SPM: 125
SPP: 4801

MD: 11,064'
INC: 92°
AZI: 70°
TVD: 10,489.31'
VS: 702.44'

MWI: 13.1
MWO: 13.1
MD: 11,158'
INC: 91.60°
AZI: 359.70°
TVD: 10,486.36'
VS: 796.39'

RPM: 66
WOB: 10.5
SPM: 125
SPP: 4411

MD: 11,252'
INC: 89.80°
AZI: 358.40°
TVD: 10,485.21'
VS: 890.35'

MWI: 13.1
MWO: 13.1
MD: 11,347'
INC: 93.20°
AZI: 359.90°

SH: LT GY-GY, SFT-SL FRM, SB
BLKY-BLKY, SLT LAM, CALC;
NO FLOR; NO CUT.

SH: LT GY-GY, LT TN - BRN
SFT-SL FRM, SB BLKY-BLKY,
SLT LAM, CALC; NO FLOR; NO
CUT.

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, PYR
INCL; NO FLOR; CUT: BRI, CLR,
WH, MOD, STMG; DL, WH RESD
RING.

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, PYR
INCL; NO FLOR; CUT: BRI, CLR,
WH, MOD, STMG; DL, WH RESD
RING.

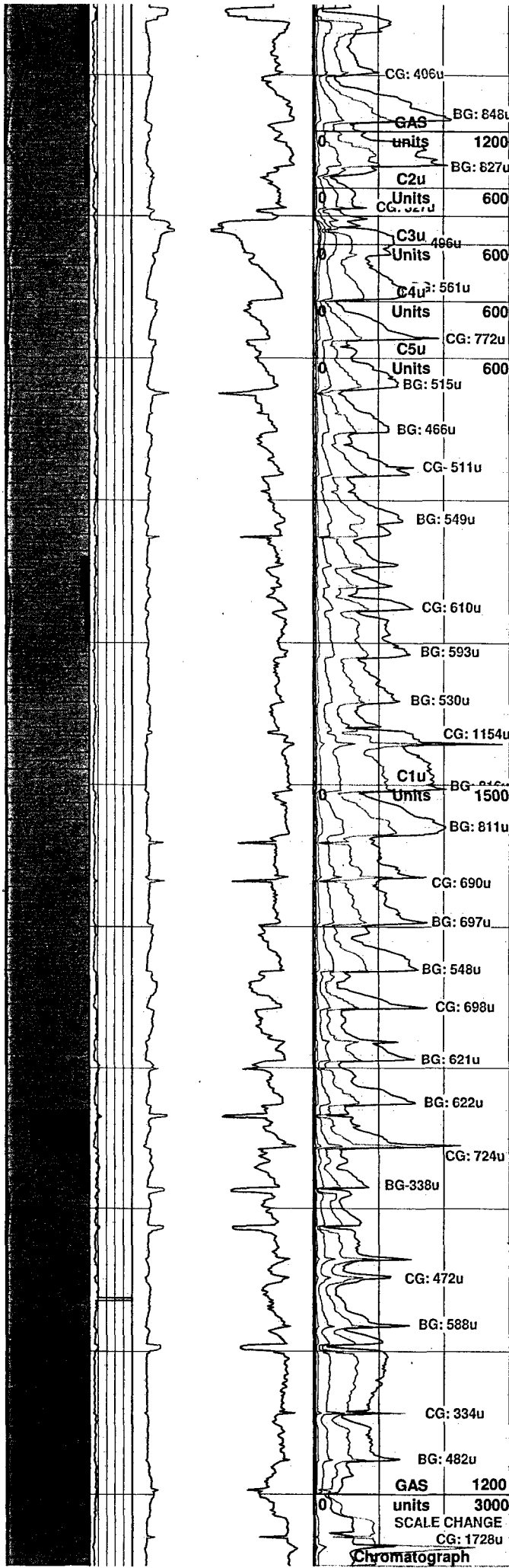
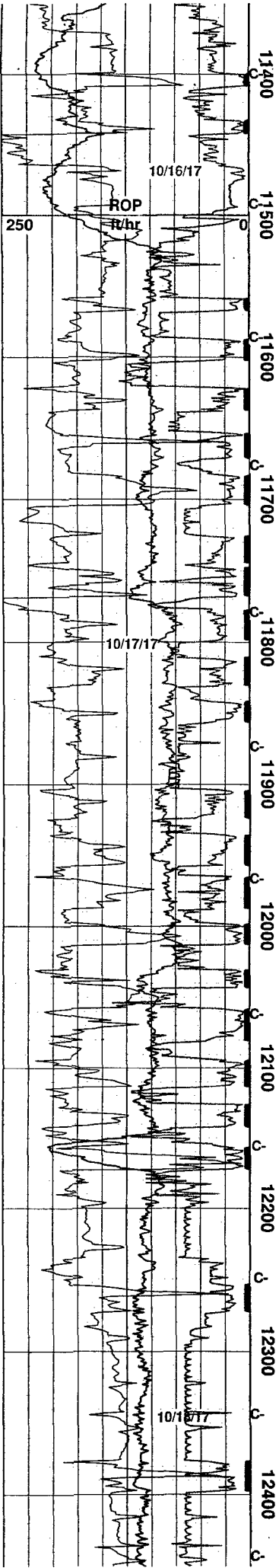
LS: OFF WH CRM, TN, LT BRN
GY-GY TN, SB BLKY - BLKY, SLI
CHKY IP, ARG IP, OCC DTRL,
OCC AREN, TR PYR, TR CALCT,
NO FLOR, NO CUT.

SH: GY-DK GY-BLK, FRM-HD,
AMOR-SB BLKY-BLKY, SLT
LAM, PYR INCL; NO FLOR; CUT:
BRI, CLR, WH, MOD, STMG; DL,
WH RESD RING.

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, PYR
INCL; NO FLOR; CUT: BRI, CLR,
WH, MOD, STMG; DL, WH RESD
RING.

SH: GY-DK GY-BLK, FRM-HD,
AMOR-SB BLKY-BLKY, SLT
LAM, PYR INCL; NO FLOR; CUT:
BRI, CLR, WH, MOD, STMG; DL,
WH RESD RING.

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM; NO
FLOR, CUT: BRI, CLR, WH,
MOD, STMG; DL, WH RESD



CG: 406u	BG: 848u	MD:11441'	VS:1079.03'
GAS units	1200	INC:94.90°	VS:1079.03'
C2u	BG: 627u	MD:11535'	VS:1172.63'
Units	600	INC:95.30°	VS:1172.63'
CG: 527u		MD:11629'	VS:1266.31'
C3u	BG: 496u	INC:94.10°	VS:1266.31'
Units	600	MD:11724'	VS:1381.15'
C4u	BG: 561u	INC:91.70°	VS:1381.15'
Units	600	MD:11819'	VS:1455.98'
C5u	BG: 772u	INC:87.70°	VS:1455.98'
Units	600	MD:11913'	VS:1549.63'
BG: 515u		INC:86.20°	VS:1549.63'
BG: 466u		MD:12008'	VS:1644.22'
CG: 511u		INC:84.60°	VS:1644.22'
BG: 549u		MD:12102'	VS:1737.68'
CG: 610u		INC:85.90°	VS:1737.68'
BG: 593u		MD:12197'	VS:1832.71'
BG: 530u		INC:87.50°	VS:1832.71'
CG: 1154u		MD:12291'	VS:1926.59'
C1u	BG: 1500	INC:89.10°	VS:1926.59'
Units		MD:12385'	VS:2020.60'
BG: 811u		INC:89.60°	VS:2020.60'
CG: 690u		MD:12480'	VS:2114.11'
BG: 697u		INC:89.60°	VS:2114.11'
BG: 548u		MD:12574'	VS:2207.62'
CG: 698u		INC:89.60°	VS:2207.62'
BG: 621u		MD:12668'	VS:2301.13'
BG: 622u		INC:89.60°	VS:2301.13'
CG: 724u		MD:12762'	VS:2394.64'
BG: 338u		INC:89.60°	VS:2394.64'
CG: 472u		MD:12856'	VS:2488.15'
BG: 588u		INC:89.60°	VS:2488.15'
CG: 334u		MD:12950'	VS:2581.66'
BG: 482u		INC:89.60°	VS:2581.66'
GAS units	1200	MD:13044'	VS:2675.17'
SCALE CHANGE	3000	INC:89.60°	VS:2675.17'
CG: 1728u		MD:13138'	VS:2768.68'

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, CARB-LS;
OFFWH-LT GY, GRST;
MICXL-FXL, MASS, ARG; NO
FLOR; CUT: BRI, CLR, WH,
MOD, STMG; DL, WH RESD
RING.

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, CARB-SL
CALC; NO FLOR; CUT: BRI, CLR,
WH, MOD, STMG; DL, WH RESD
RING.

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, CARB;
TR LS: NO FLOR; CUT: BRI,
CLR, WH, MOD, STMG; DL, WH
RESD RING.

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, CARB,
TR PYR: NO FLOR; NO CUT.

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, CARB-SL
CALC; NO FLOR; CUT: BRI, CLR,
WH, MOD, STMG; DL, WH RESD
RING.

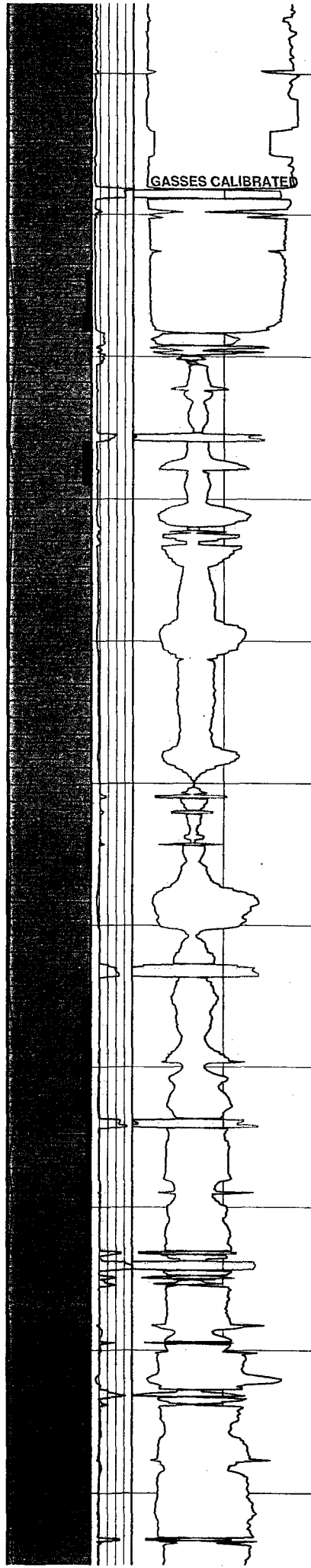
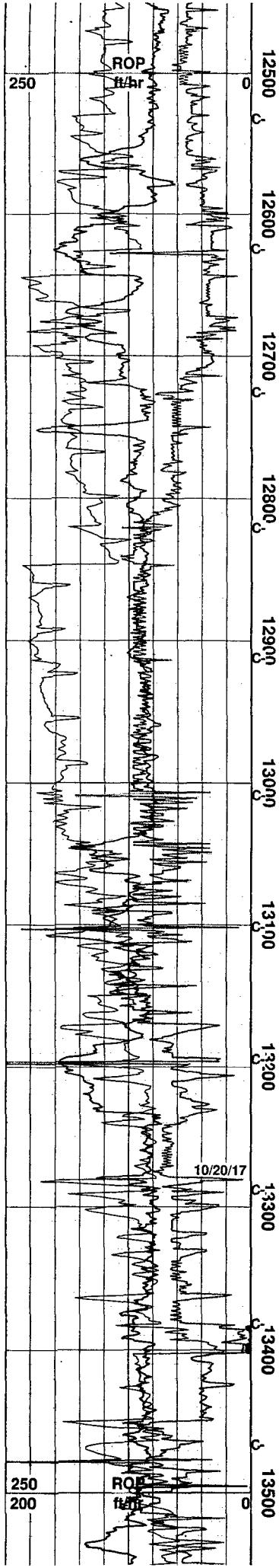
SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, CARB-SL
CALC; TR PYR; NO FLOR; CUT:
BRI, CLR, WH, MOD, STMG; DL,
WH RESD RING.

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, CARB-LS;
OFFWH-LT GY, GRST;
MICXL-FXL, MASS, ARG; NO
FLOR; CUT: BRI, CLR, WH,
MOD, STMG; DL, WH RESD
RING.

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, CARB-SL
CALC; TR PYR; NO FLOR; CUT:
BRI, CLR, WH, MOD, STMG; DL,
WH RESD RING.

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, CARB-SL
CALC; NO FLOR; CUT: BRI, CLR,
WH, MOD, STMG; DL, WH RESD
RING.

Chromatograph



Units	3000
BG: 972u	
BG: 2704u	
CG: 1690u	
BG: 2450u	
CG: 2804u	
BG: 2266u	
CG: 1682u	
BG: 1569u	
CG: 551u	
BG: 1101u	
CG: 876u	
BG: 708u	
CG: 269u	
BG: 1105u	
CG: 675u	
BG: 372u	
CG: 685u	
BG: 516u	
CG: 751u	
BG: 321u	
CG: 221u	
BG: 1300u	
BG: 190-u	
GAS	
units	3000
BG: 368u	
Chromatograph	

MD:12480'
INC:89.60°
AZI:0.10°
TVD:10486.27'
VS:2115.59'

RPM: 61
WOB: 20.1
SPM: 125
SPP: 4561

MD:12573'
INC:90.30°
AZI:0.10°
TVD:10486.35'
VS:2208.59'

MWI: 13
MWO: 12.9

MD:12667'
INC:90.80°
AZI:0.60°
TVD:10485.45'
VS:2302.58'

RPM: 70
WOB: 215.9
SPM: 129
SPP: 5392

MD:12761'
INC:90.70°
AZI:0.70°
TVD:10484.22'
VS:2396.57'

MWI: 13.2
MWO: 13.2

MD:12855'
INC:89.90°
AZI:0.40°
TVD:10483.73'
VS:2490.57'

RPM: 70
WOB: 12.1
SPM: 129
SPP: 5523

MD:12949'
INC:89.60°
AZI:0.30°
TVD:10484.14'
VS:2584.57'

MWI: 13.2
MWO: 13.2

MD:13044'
INC:88.50°
AZI:359.90°
TVD:10485.71'
VS:2678.24'

RPM: 70
WOB: 18.0
SPM: 129
SPP: 5405

MD:13138'
INC:88.80°
AZI:359.90°
TVD:10487.93'
VS:2773.52'

MWI: 13.3
MWO: 13.3

MD:13231'
INC:88.30°
AZI:359.60°
TVD:10490.28'
VS:2865.18'

RPM: 50
WOB: 10.7
SPM: 133
SPP: 5445

MD:13325'
INC:87.80°
AZI:359.30°
TVD:10493.48'
VS:2960.41'

MWI: 13.3
MWO: 13.3

MD:13419'
INC:89.40°
AZI:0.20°
TVD:10495.77'
VS:3054.37'

RPM: 60
WOB: 25.8
SPM: 133
SPP: 5796

MD:13513'
INC:89.40°
AZI:0.80°
TVD:10496.76'
VS:3148.37'

WH, MOD, STMG; DL, WH RESD RING.

SH: GY-DK GY-BLK, SL FRM-FRM, AMOR-SB BLKY, SLT LAM, CARB-SL CALC IP; NO FLOR; CUT: BRI, CLR, WH, MOD, STMG; DL, WH RESD RING.

SH: GY-DK GY-BLK, SL FRM-FRM, AMOR-SB BLKY, SLT LAM, CARB-SL CALC IP; NO FLOR; CUT: BRI, CLR, WH, MOD, STMG; DL, WH RESD RING.

SH: GY-DK GY-BLK, SL FRM-FRM, AMOR-SB BLKY, SLT LAM, CARB-SL CALC IP; NO FLOR; CUT: BRI, CLR, WH, MOD, STMG; DL, WH RESD RING.

SH: GY-DK GY-BLK, SL FRM-FRM, AMOR-SB BLKY, SLT LAM, CARB-SL CALC IP; NO FLOR; CUT: BRI, CLR, WH, MOD, STMG; DL, WH RESD RING.

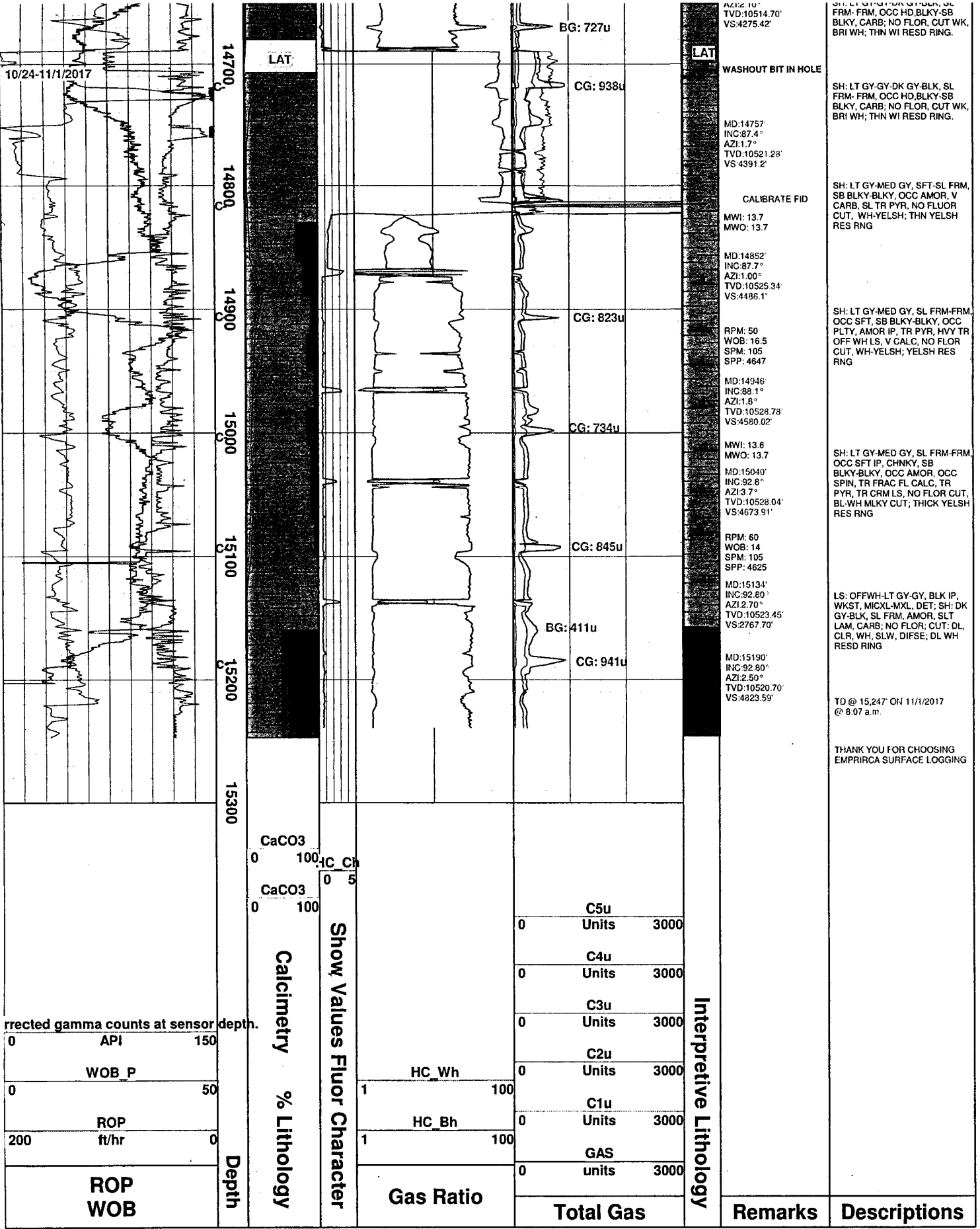
SH: GY-DK GY-BLK, SL FRM-FRM, AMOR-SB BLKY, SLT LAM, CARB-SL CALC IP; NO FLOR; CUT: BRI, CLR, WH, MOD, STMG; DL, WH RESD RING.

SH: GY-DK GY-BLK, SL FRM-FRM, AMOR-SB BLKY, SLT LAM, CARB-SL CALC IP; NO FLOR; CUT: BRI, CLR, WH, MOD, STMG; DL, WH RESD RING.

SH: GY-DK GY-BLK, SL FRM-FRM, AMOR-SB BLKY, SLT LAM, CARB-SL CALC IP; NO FLOR; CUT: BRI, CLR, WH, MOD, STMG; DL, WH RESD RING.

SH: GY-DK GY, BLK IP, SL FRM-FRM, AMOR-SB BLKY, SLT LAM, CARB; TR LS; NO FLOR; CUT: BRI, CLR, WH, MOD, STMG; DL, WH RESD RING.

SH: GY-DK GY, BLK IP, SL



10/24-11/1/2017
Corrected gamma counts at sensor depth.
API
WOB_P
ROP
ft/hr
ROP
WOB

14700
14800
14900
15000
15100
15200
15300
Depth

CaCO3
0 100
CaCO3
0 100
Calcimetry
% Lithology
Show Values Fluor Character
HC Wh
HC Bh
Gas Ratio

CG: 727u
CG: 938u
CG: 823u
CG: 734u
CG: 845u
BG: 411u
CG: 941u
C5u
Units
3000
C4u
Units
3000
C3u
Units
3000
C2u
Units
3000
C1u
Units
3000
GAS
units
3000
Total Gas

MD:14757
INC:87.4°
AZI:1.7°
TVD:10521.28'
VS:4391.2'
WASHOUT BIT IN HOLE
CALIBRATE FID
MWI: 13.7
MWO: 13.7
MD:14852
INC:87.7°
AZI:1.00°
TVD:10525.34'
VS:4486.1'
RPM: 50
WOB: 16.5
SPM: 105
SPP: 4647
MD:14946
INC:88.1°
AZI:1.8°
TVD:10528.78'
VS:4580.02'
MWI: 13.6
MWO: 13.7
MD:15040
INC:92.8°
AZI:3.7°
TVD:10528.04'
VS:4673.91'
RPM: 60
WOB: 14
SPM: 105
SPP: 4625
MD:15134
INC:92.80°
AZI:2.70°
TVD:10523.45'
VS:2767.70'
MD:15190
INC:92.80°
AZI:2.50°
TVD:10520.70'
VS:4823.59'

SH: LT GY-GY-DK GY-BLK, SL FRM: FRM, OCC HD, BLKY-SB BLKY, CARB; NO FLOR, CUT WK, BRI WH; THN WI RESD RING.
SH: LT GY-MED GY, SFT-SL FRM, SB BLKY-BLKY, OCC AMOR, V CARB, SL TR PYR, NO FLUOR CUT, WH-YELSH; THN YELSH RES RING
SH: LT GY-MED GY, SL FRM-FRM, OCC SFT, SB BLKY-BLKY, OCC PLTY, AMOR IP, TR PYR, HVY TR OFF WH LS, V CALC, NO FLOR CUT, WH-YELSH; YELSH RES RING
SH: LT GY-MED GY, SL FRM-FRM, OCC SFT IP, CHNKY, SB BLKY-BLKY, OCC AMOR, OCC SPIN, TR FRAC FL CALC, TR PYR, TR CRM LS, NO FLOR CUT, BL-WH MLKY CUT; THICK YELSH RES RING
LS: OFFWH-LT GY-GY, BLK IP, WKST, MICXL-MXL, DET; SH: DK GY-BLK, SL FRM, AMOR, SLT LAM, CARB; NO FLOR; CUT: DL, CLR, WH, SLW, DIFSE; DL WH RESD RING
TD @ 15,247' ON 11/1/2017 @ 8:07 a.m.
THANK YOU FOR CHOOSING EMPRICA SURFACE LOGGING
Remarks
Descriptions



RESERVOIR GROUP

6510 GUHN ROAD
HOUSTON, TEXAS 77040
OFFICE : 713-466-7400 FAX : 281-653-0808
www.alsglobal.com

COUNTY EDDY Co. STATE NM
FIELD RUSTLER BREAKS
LOCATION EDDY CO.
WELL Charlie Sweeney Fed Com 228H
LOG TYPE 1"= 100' MEASURED DEPTH
COMPANY Matador Resources Company
JOB NO. 0723PB1710

COMPANY Matador Resources Company
WELL Charlie Sweeney Fed Com 228H
FIELD RUSTLER BREAKS
COUNTY/PARISH EDDY Co. STATE NM JOB NO. 0723PB1710
UNIT MANAGER Calvin Dykes ENGINEER Mario Monteaivo
GEOLOGIST Andy Juett CO. ENGINEER _____
LOCATION
NEW MEXICO EAST (NAD 27)
S31: 527' FEL, 190' FSL
API SERIAL NO. 30-015-44028 SEC _____ TWP _____ RANGE _____
ELEVATIONS
KB _____ TDRIVE _____
DRILL FLOOR _____
ELEVATION _____ 3,100'

SPUD DATE 08/08/2017 TOTAL DEPTH 15,247'
LOGGING DATE: FROM 10/11/2017 TO 11/01/2017
LOGGING DEPTH: FROM 10,672' TO 15,247'

WATER DEPTH _____
AIR GAP _____

BORE HOLE RECORD

CASING RECORD

SIZE	FROM	TO	SIZE	WGT.	FROM	TO	TEST
12.25"	350'	2,465'	13.375"	48 lbs.	SURFACE	350'	N/A
8.75"	2,465'	10,672'	9.625"	40 lbs.	SURFACE	2,465'	N/A
6.125"	10,672'		7 5/8"	29.7 lbs.	SURFACE	9,784'	
			7"	29 lbs	9,784'	10,007'	

REMARKS:

SERVICES PROVIDED: TWO MAN LOGGING WITH FID CHROMATOGRAPHY, CALCIMETRY, AND SAMPLE COLLECTION

TOTAL Gas Analyzer
1% C1 = 100u
20% C1 = 2000u

DRILLING FLUID COMPANY _____ OBM _____
DRILLING FLUID TYPE _____
DRILLING CONTRACTOR Patterson RIG NAME 282
LOG SCALE 1"=100' LOGGING UNIT NUMBER 071L

ALS OIL & GAS GUARANTEES THE CUSTOMER BENEFIT OF ITS BEST JUDGEMENT,
BUT DOES NOT WARRANT THE ACCURACY OF THE SURFACE DATA COLLECTED
NOR SUBSEQUENT INTERPRETATIONS OR RECOMMENDATIONS

SHOW VALUES

- 2 ZONE OF INTEREST
- 5 POOR SHOW, PROB. NON-PRODUCTIVE
- 10 FAIR SHOW, POSSIBLY PRODUCTIVE
- 15 GOOD SHOW, PROBABLY PRODUCTIVE

CG - CONNECTION GAS
CO - CIRCULATE OUT
CHL - CHLORIDE
DS - DIRECTIONAL SURVEY
DC - DEPTH CORRECTION
TG - TRIP GAS
G&OCM - GAS & OIL CUT MUD

GCM - GAS CUT MUD
LAT - LOGGED AFTER TRIP
LAST - LOGGED AFTER SHORT TRIP
NB - NEW BIT
ST - SHORT TRIP
NR - NO RETURNS

SYMBOLS

- Fluorescence Bright
- Fluorescence Dull
- Fluorescence Mineral

Casing Shoe

Modifiers

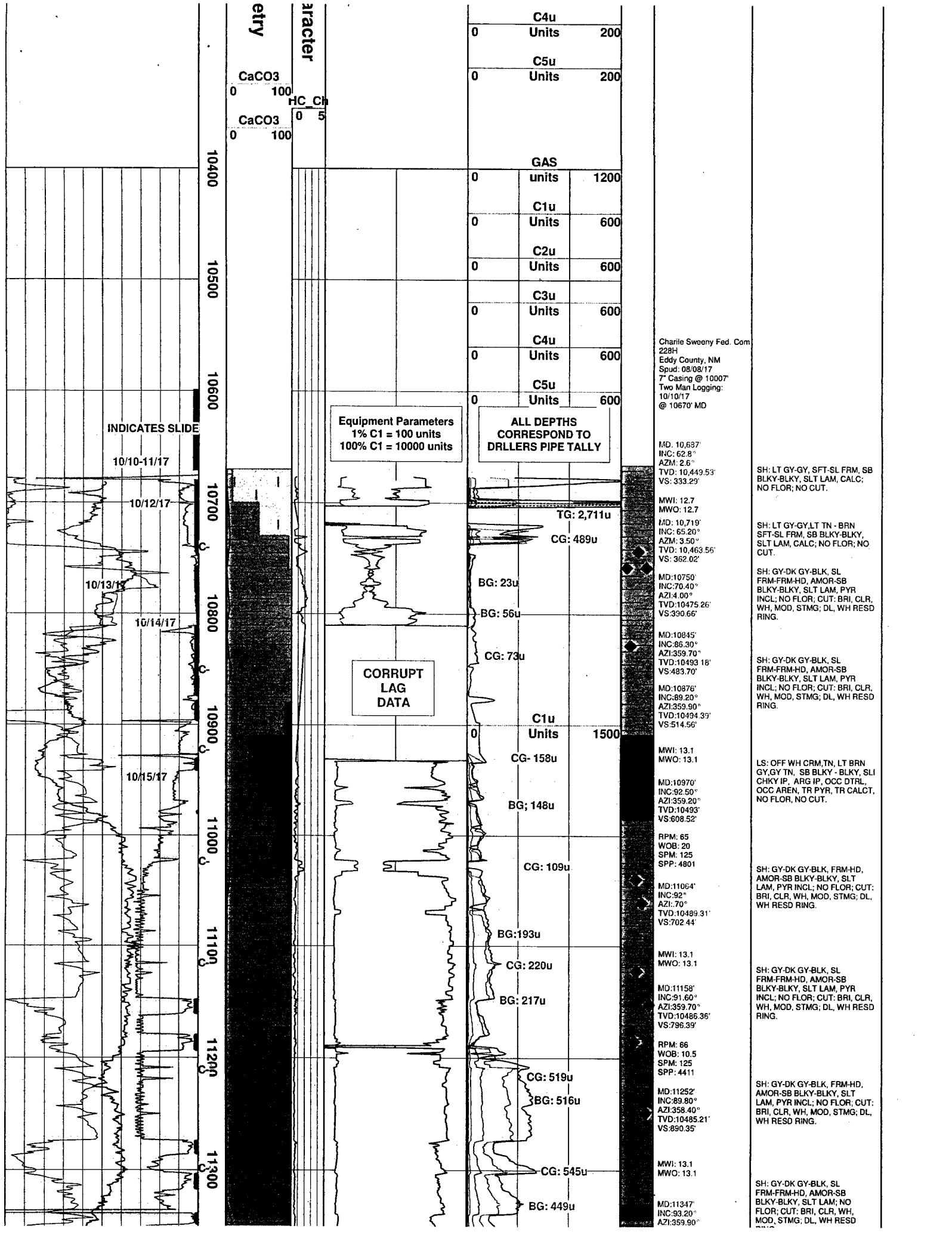
- Anhydritic
- Argillaceous
- Calcareous
- Carbonaceous
- Styrolitic
- Glauconite
- Dolomitic
- Fossiliferous
- Cherty
- Sandy

- Marly
- Micaceous
- Pyritic
- Conglomeratic
- Dolomite Stringer

Lithology

- Sand
- Shale Green
- Shale Grey
- Ash
- Anhydrite
- Limestone (Sandy)
- Marl
- Dolomite
- Siltstone
- Cement
- Coal
- Limestone

ROP WOB	Depth	% Lithology	Show Values	Gas Ratio	Total Gas		Remarks	Descriptions
					GAS	units		
ROP ft/hr	0			HC_Bh	0	200		
WOB_P	50			HC_Wh	0	200		
Corrected gamma counts at sensor depth.	150				0	200		
API					0	200		



INDICATES SLIDE

10/10-11/17

10/12/17

10/13/17

10/14/17

10/15/17

Equipment Parameters
1% C1 = 100 units
100% C1 = 10000 units

ALL DEPTHS
CORRESPOND TO
DRILLERS PIPE TALLY

CORRUPT
LAG
DATA

TG: 2,711u

CG: 489u

BG: 23u

BG: 56u

CG: 73u

C1u
Units 1500

CG: 158u

BG: 148u

CG: 109u

BG: 193u

CG: 220u

BG: 217u

CG: 519u

BG: 516u

CG: 545u

BG: 449u

Charlie Sweeny Fed. Com
228H
Eddy County, NM
Spud: 08/08/17
7" Casing @ 10007'
Two Man Logging:
10/10/17
@ 10670' MD

MD: 10,687'
INC: 62.8°
AZM: 2.6°
TVD: 10,449.53'
VS: 333.29'

MWI: 12.7
MWO: 12.7
MD: 10,719'
INC: 65.20°
AZM: 3.50°
TVD: 10,463.56'
VS: 362.02'

MD: 10,750'
INC: 70.40°
AZM: 4.00°
TVD: 10,475.26'
VS: 390.66'

MD: 10,845'
INC: 86.30°
AZM: 359.70°
TVD: 10,493.18'
VS: 483.70'

MD: 10,876'
INC: 89.20°
AZM: 359.90°
TVD: 10,494.39'
VS: 514.56'

MWI: 13.1

MWO: 13.1

MD: 10,970'
INC: 92.50°
AZM: 359.20°
TVD: 10,493'
VS: 608.52'

RPM: 65

WOB: 20

SPM: 125

SPP: 4801

MD: 11,064'
INC: 92°
AZM: 70°
TVD: 10,489.31'
VS: 702.44'

MWI: 13.1

MWO: 13.1

MD: 11,158'
INC: 91.60°
AZM: 359.70°
TVD: 10,486.36'
VS: 796.39'

RPM: 66

WOB: 10.5

SPM: 125

SPP: 4411

MD: 11,252'
INC: 89.80°
AZM: 358.40°
TVD: 10,485.21'
VS: 890.35'

MWI: 13.1

MWO: 13.1

MD: 11,347'
INC: 93.20°
AZM: 359.90°

SH: LT GY-GY, SFT-SL FRM, SB
BLKY-BLKY, SLT LAM, CALC;
NO FLOR; NO CUT.

SH: LT GY-GY, LT TN - BRN
SFT-SL FRM, SB BLKY-BLKY,
SLT LAM, CALC; NO FLOR; NO
CUT.

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, PYR
INCL; NO FLOR; CUT: BRI, CLR,
WH, MOD, STMG; DL, WH RESD
RING.

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, PYR
INCL; NO FLOR; CUT: BRI, CLR,
WH, MOD, STMG; DL, WH RESD
RING.

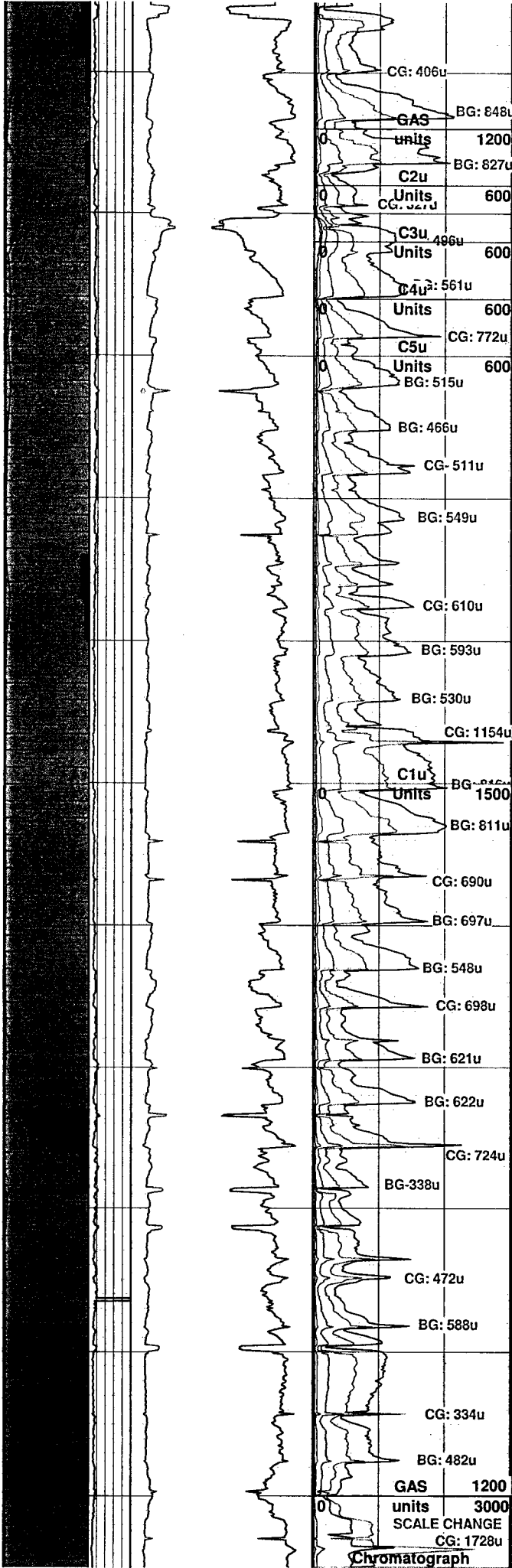
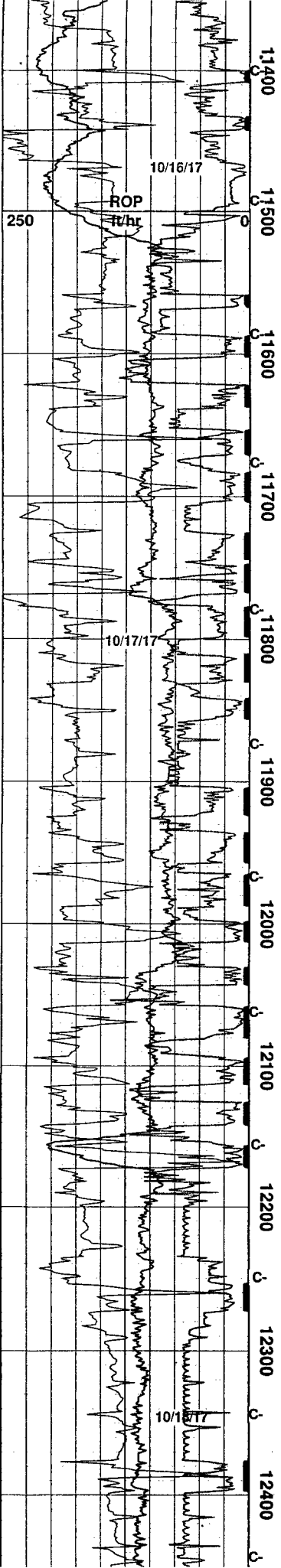
LS: OFF WH CRM, TN, LT BRN
GY-GY TN, SB BLKY - BLKY, SLI
CHKY IP, ARG IP, OCC DTRL,
OCC AREN, TR PYR, TR CALCT,
NO FLOR, NO CUT.

SH: GY-DK GY-BLK, FRM-HD,
AMOR-SB BLKY-BLKY, SLT
LAM, PYR INCL; NO FLOR; CUT:
BRI, CLR, WH, MOD, STMG; DL,
WH RESD RING.

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, PYR
INCL; NO FLOR; CUT: BRI, CLR,
WH, MOD, STMG; DL, WH RESD
RING.

SH: GY-DK GY-BLK, FRM-HD,
AMOR-SB BLKY-BLKY, SLT
LAM, PYR INCL; NO FLOR; CUT:
BRI, CLR, WH, MOD, STMG; DL,
WH RESD RING.

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM; NO
FLOR; CUT: BRI, CLR, WH,
MOD, STMG; DL, WH RESD



TVD:10482.72'
VS:985.28'
RPM: 40
WOB: 3.7
SPM: 125
SPP: 4829
MD:11441'
INC:94.90°
AZI:359.40°
TVD:10476.03'
VS:1079.03'
MWI: 13.2
MWO: 13.1+
MD:11535'
INC:95.30°
AZI:359.20°
TVD:10467.73'
VS:1172.63'
RPM: 10
WOB: 14.9
SPM: 110
SPP: 3479
MD:11629'
INC:94.10°
AZI:0.70°
TVD:10460.02'
VS:1266.31'
MWI: 13.1
MWO: 13.1
MD:11724'
INC:91.70°
AZI:3.00°
TVD:10455.22'
VS:1361.15'
RPM: 71
WOB: 16.4
SPM: 125
SPP: 4445
MD:11819'
INC:87.70°
AZI:4.40°
TVD:10455.71'
VS:1455.98'
MWI: 13.1
MWO: 13.1
MD:11913'
INC:86.20°
AZI:4.30°
TVD:10460.71'
VS:1549.63'
RPM: 0
WOB: 21.5
SPM: 125
SPP: 4041
MD:12008'
INC:84.50°
AZI:1.80°
TVD:10468.33'
VS:1644.22'
MWI: 13.1
MWO: 13.1
MD:12102'
INC:85.90°
AZI:0.00°
TVD:10476.12'
VS:1737.88'
RPM: 40
WOB: 13.9
SPM: 110
SPP: 3732
MD:12197'
INC:87.50°
AZI:358.90°
TVD:10481.59'
VS:1832.71'
MWI: 13.1
MWO: 13.1
MD:12291'
INC:89°
AZI:359.10°
TVD:10485.69'
VS:1926.59'
RPM: 41
WOB: 24.8
SPM: 125
SPP: 4750
MD:12385'
INC:89.60°
AZI:359.40°
TVD:10485.61'
VS:2020.60'
MWI: 13.1
MWO: 13.1

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, LS:
OFFWH-LT GY, GRST,
MICXL-FXL, MASS, ARG; NO
FLOR; CUT: BRI, CLR, WH,
MOD, STMG; DL, WH RESD
RING.

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, CARB-SL
CALC; NO FLOR; CUT: BRI, CLR,
WH, MOD, STMG; DL, WH RESD
RING.

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, CARB:
TR LS: NO FLOR; CUT: BRI,
CLR, WH, MOD, STMG; DL, WH
RESD RING.

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, CARB,
TR PYR: NO FLOR; NO CUT..

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, CARB-SL
CALC; NO FLOR; CUT: BRI, CLR,
WH, MOD, STMG; DL, WH RESD
RING.

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, CARB-SL
CALC; TR PYR; NO FLOR; CUT:
BRI, CLR, WH, MOD, STMG; DL,
WH RESD RING.

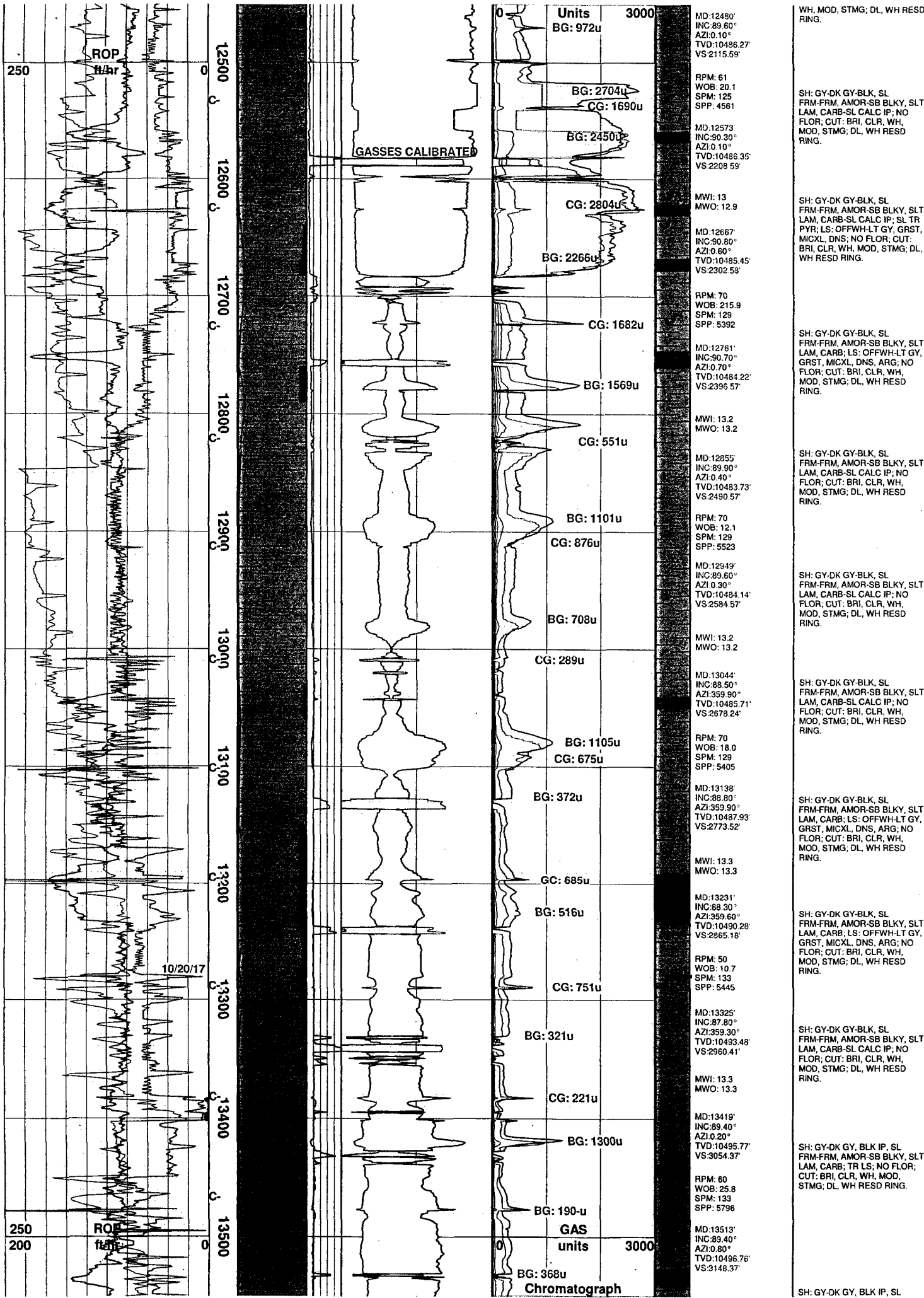
SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, LS:
OFFWH-LT GY, GRST,
MICXL-FXL, MASS, ARG; NO
FLOR; CUT: BRI, CLR, WH,
MOD, STMG; DL, WH RESD
RING.

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, CARB-SL
CALC; NO FLOR; CUT: BRI, CLR,
WH, MOD, STMG; DL, WH RESD
RING.

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, CARB-SL
CALC; TR PYR; NO FLOR; CUT:
BRI, CLR, WH, MOD, STMG; DL,
WH RESD RING.

SH: GY-DK GY-BLK, SL
FRM-FRM-HD, AMOR-SB
BLKY-BLKY, SLT LAM, CARB-SL
CALC; NO FLOR; CUT: BRI, CLR,
WH, MOD, STMG; DL, WH RESD
RING.

Chromatograph



WH, MOD, STMG; DL, WH RESD RING.

SH: GY-DK GY-BLK, SL FRM-FRM, AMOR-SB BLKY, SLT LAM, CARB-SL CALC IP; NO FLOR; CUT: BRI, CLR, WH, MOD, STMG; DL, WH RESD RING.

SH: GY-DK GY-BLK, SL FRM-FRM, AMOR-SB BLKY, SLT LAM, CARB-SL CALC IP; NO FLOR; CUT: BRI, CLR, WH, MOD, STMG; DL, WH RESD RING.

SH: GY-DK GY-BLK, SL FRM-FRM, AMOR-SB BLKY, SLT LAM, CARB-SL CALC IP; NO FLOR; CUT: BRI, CLR, WH, MOD, STMG; DL, WH RESD RING.

SH: GY-DK GY-BLK, SL FRM-FRM, AMOR-SB BLKY, SLT LAM, CARB-SL CALC IP; NO FLOR; CUT: BRI, CLR, WH, MOD, STMG; DL, WH RESD RING.

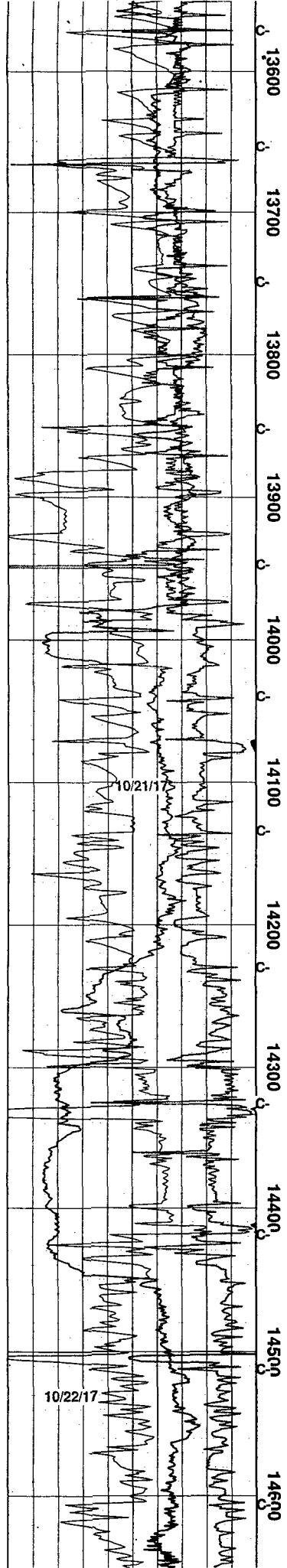
SH: GY-DK GY-BLK, SL FRM-FRM, AMOR-SB BLKY, SLT LAM, CARB-SL CALC IP; NO FLOR; CUT: BRI, CLR, WH, MOD, STMG; DL, WH RESD RING.

SH: GY-DK GY-BLK, SL FRM-FRM, AMOR-SB BLKY, SLT LAM, CARB-SL CALC IP; NO FLOR; CUT: BRI, CLR, WH, MOD, STMG; DL, WH RESD RING.

SH: GY-DK GY-BLK, SL FRM-FRM, AMOR-SB BLKY, SLT LAM, CARB-SL CALC IP; NO FLOR; CUT: BRI, CLR, WH, MOD, STMG; DL, WH RESD RING.

SH: GY-DK GY, BLK IP, SL FRM-FRM, AMOR-SB BLKY, SLT LAM, CARB: TR LS; NO FLOR; CUT: BRI, CLR, WH, MOD, STMG; DL, WH RESD RING.

SH: GY-DK GY, BLK IP, SL



Units		3000
CG: 804u	BG: 337u	
CG: 286u	BG: 865u	
BG: 360u		
CG: 1378u		
CG: 756u	BG: 882u	
CG: 510u		
BG: 353u	CG: 333u	
BG: 570u		
CG: 1009u	BG: 800u	
BG: 683u	CG: 887u	
BG: 724u	BG: 682u	
CG: 726u	BG: 823u	
BG: 833u	CG: 1538u	
GAS		
units	CG: 940u	3000
BG: 819u		
Chromatograph		
Units		3000
CG: 779u		
BG: 141u		

MWI: 13.4
MWO: 13.3
MD:13607'
INC:88.70°
AZI:1.00°
TVD:10498.32'
VS:3242.35'

RPM: 60
WOB: 229.7
SPM: 133
SPP: 5860

MD:13701'
INC:91.30°
AZI:1.60°
TVD:10498.32'
VS:3336.33'

MWI: 13.3
MWO: 13.3

MD:13795'
INC:91.40°
AZI:2.20°
TVD:10496.10'
VS:3430.28'

RPM: 70
WOB: 0.00
SPM: 133
SPP: 4775

MD:13890'
INC:91.20°
AZI:2.40°
TVD:10493.95'
VS:3525.21'

MWI: 13.3
MWO: 13.3

MD:13983'
INC:88.90°
AZI:1.70°
TVD:10493.87'
VS:3618.78'

RPM: 50
WOB: 21.8
SPM: 133
SPP: 5679

MD:14077'
INC:89.10°
AZI:1.40°
TVD:10493.87'
VS:3712.14'

MWI: 13.3
MWO: 13.3

MD:14172'
INC:88.80°
AZI:1.40°
TVD:10495.62'
VS:3807.12'

RPM: 60
WOB: 25.1
SPM: 133
SPP: 5770

MD:14266'
INC:89.80°
AZI:2.60°
TVD:10496.76'
VS:3901.09'

MWI: 13.3
MWO: 13.3

MD:14359'
INC:89.00°
AZI:2.10°
TVD:10498.55'
VS:3994.03'

RPM: 60
WOB: 26.9
SPM: 114
SPP: 4581

MD:14453'
INC:86.70°
AZI:2.50°
TVD:10502.90'
VS:4087.88'

MWI: 13.3
MWO: 13.3

MD:14547'
INC:86.40°
AZI:2.20°
TVD:10508.55'
VS:4181.14'

RPM: 60
WOB: 23.1
SPM: 133
SPP: 5804

MD:14641'
INC:86.10°
AZI:2.40°

FRM-FRM, AMOR-SB BLKY, SLT
LAM, CARB; TR LS; NO FLOR;
CUT: BRI, CLR, WH, MOD, STMG;
DL, WH RESD RING.

SH: GY-DK GY-BLK, SL FRM-FRM,
HRD IP, AMOR-SB BLKY, SLT
LAM, CARB; TR LS; NO FLOR;
CUT: BRI, CLR, WH, MOD, STMG;
DL, WH RESD RING.

SH: GY-DK GY, BLK IP, SL
FRM-FRM, AMOR-SB BLKY, SLT
LAM, CARB; TR LS; NO FLOR;
CUT: BRI, CLR, WH, MOD, STMG;
DL, WH RESD RING.

SH: GY-DK GY, BLK IP, SL
FRM-FRM, HRD IP, AMOR-SB
BLKY, SLT LAM, CARB; TR LS;
NO FLOR; CUT: BRI, CLR, WH,
FST, STMG; DL, WH RESD RING.

SH: GY-DK GY-BLK, SL FRM-FRM,
BLKY-SB BLKY, SLT LAM, V
CALC; LS: OFFWH-LT GY, GRST,
MICXL, DNS, ARG; NO FLOR W/
LT, BRI GN FLASH CUT

LS: LT GY-GY TN, WKST,
FXL-VFXL, MASS, V ARG

SH: LT GY-GY, IP CRM- BRN, DK
GY-BLK, SL FRM-FRM, OCC
HD, BLKY - SB BLKY, CALC, NO
FLOR, CUT WK, BRI GN, W/ THN
RESD BRN.

SH: LT GY-GY, IP CRM- BRN, SL
FRM-FRM, OCC HD, BLKY - SB
BLKY, CALC, NO FLOR, CUT WK,
BRI GN, W/ THN RESD BRN.

SH: LT GY-GY, IP CRM- BRN, DK
GY-BLK, SL FRM-FRM, OCC
HD, BLKY - SB BLKY, CALC, NO
FLOR, CUT WK, BRI GN, W/ THN
RESD BRN.

SH: GY-DK GY, SL FRM-FRM,
AMOR-SB BLKY, SLT LAM, CARB;
NO FLOR; CUT: BRI, CLR, WH,
FST, DIFSE; DL WH RESD RING.

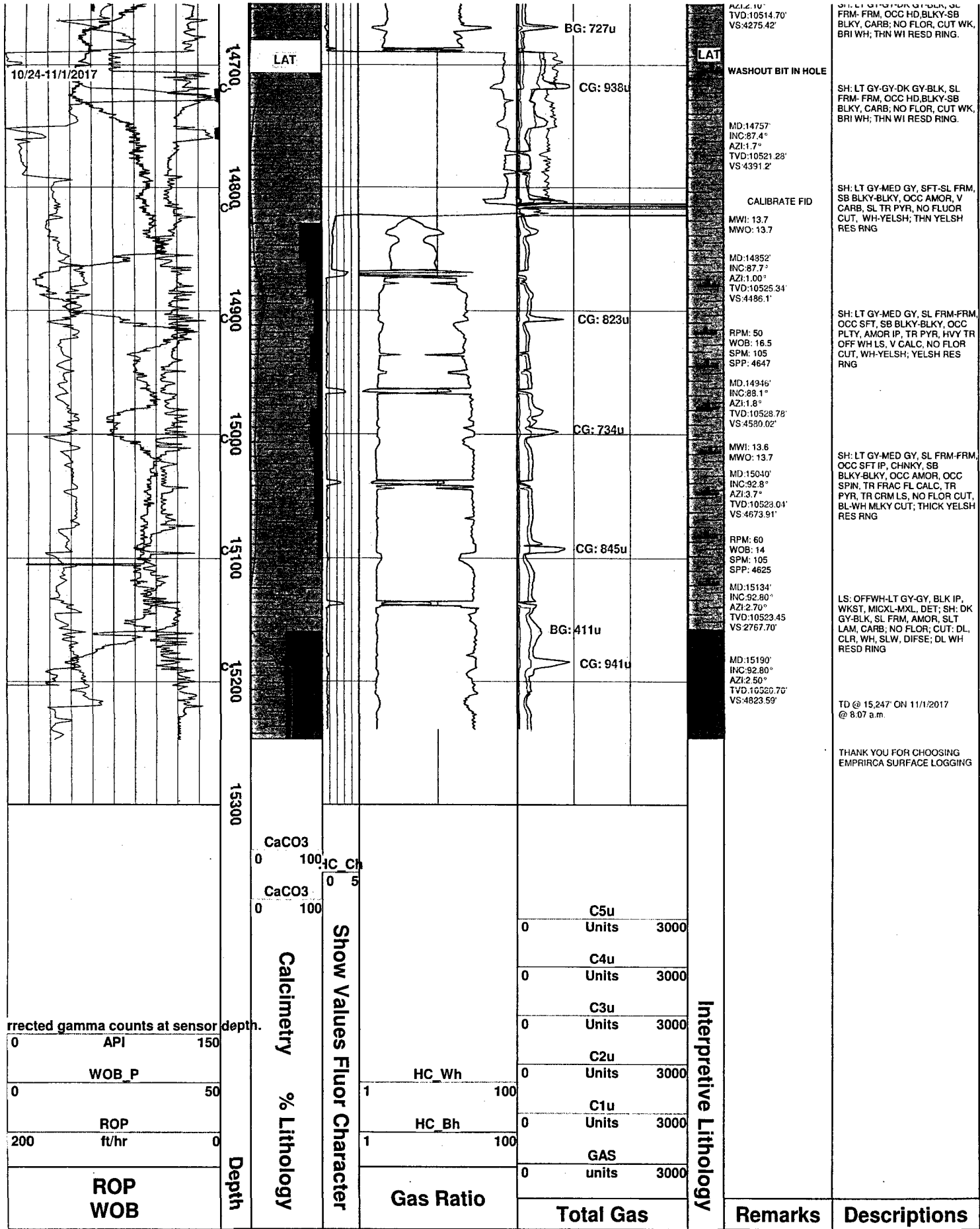
LS: OFFWH-LT GY-GY, BLK IP,
WKST, MICXL-MXL, DET; SH: DK
GY-BLK, SL FRM, AMOR, SLT
LAM, CARB; NO FLOR; CUT: DL,
CLR, WH, SLW, DIFSE; DL WH
RESD RING.

LS: OFFWH- LT GY, GRST,
MICXL, DNS, ARG; NO FLOR W/
LT, BRI GN FLASH CUT

SH: GY-DK GY, SL FRM-FRM,
BLKY-SB BLKY, SLT LAM, CARB;
NO FLOR; CUT: BRI, CLR, WH,
FST, DIFSE; WH RESD RING.

SH: LT GY-GY, IP CRM- BRN, DK
GY-BLK, SL FRM-FRM, OCC
HD, BLKY - SB BLKY, CARB, NO
FLOR, CUT WK, BRI GN, W/ THN
RESD BRN.

SH: LT GY-GY, IP CRM- BRN, SL



Corrected gamma counts at sensor depth.			
0	API	150	
0	WOB_P	50	
200	ROP	0	
	ft/hr		
	ROP		
	WOB		

CaCO3	0	100
IC Ch	0	5
CaCO3	0	100
Calcimetry	% Lithology	

Show Values Fluor Character	
HC_Wh	1
HC_Bh	1
Gas Ratio	

C5u	0	Units	3000
C4u	0	Units	3000
C3u	0	Units	3000
C2u	0	Units	3000
C1u	0	Units	3000
GAS	0	units	3000
Total Gas			

Interpretive Lithology

Remarks	Descriptions
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