

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.
NMNM03677

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
STEBBINS 20 FEDERAL 134H

9. API Well No.
30-015-44175

10. Field and Pool or Exploratory Area
WOLFCAMP; BONE SPRING

11. County or Parish, State
EDDY COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
MATADOR PRODUCTION COMPANY
Contact: TAMMY R LINK
Email: tlink@matadorresources.com

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 20 T20S R29E Mer NMP SWSW 391FSL 130FWL

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.

3-15-18
Accepted for record - NMOCD

NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 12 2018

Large log in WIS

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

Electronic Submission #402541 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 ANALYST

Signature (Electronic Submission)

Date 01/20/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Date

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 ****



RESERVOIR GROUP

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

COUNTY Eddy STATE NM
FIELD Third Bone Spring Sand
LOCATION Eddy Co. New Mexico
WELL Stebbins 20 Fed 134H
LOG TYPE 1" = 100' Measured Depth
COMPANY Matador Resources
JOB NO. 0627PB1708

SPUD DATE 09-31-2017 TOTAL DEPTH 13,880'
LOGGING DATE: FROM 09-01-2017 TO 09-16-2017
LOGGING DEPTH: FROM 394' TO 13,880'

BORE HOLE RECORD				CASING RECORD			
SIZE	FROM	TO	SIZE	WGT.	FROM	TO	TEST
	Surface	394'	20"	94#	Surface	394'	N/A
17.5"	394'	1,130'	13 3/8"	54.5 #	Surface	1,123'	N/A
12 1/4"	1,130'	3,130'	9 5/8"	40#	Surface	3,096'	11.0 EMW
8 3/4"	3,130'	13,880'					

REMARKS: THANK YOU FOR USING ALS - EMPIRICA
ALL DEPTHS CORRESPOND TO DRILLERS TALLY
Start Date: 09-01-2017 End Date: TBD Release Date: TBD
SERVICES PROVIDED: 2-Man Logging, Calcmetry, Digital Sample Pictures
WISE COMPUTER LOGGING SYSTEM, Dual Channel FID Chromatograph

TOTAL Gas Analyzer
1% C1 = 100 units
20% C1 = 2000 units
DRILLING FLUID COMPANY Stellar Drilling Fluids
DRILLING FLUID TYPE Saturated Brine/Fresh Water
DRILLING CONTRACTOR Patterson UTI RIG NAME Patterson 809
LOG SCALE 1" = 100' LOGGING UNIT NUMBER 017L

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

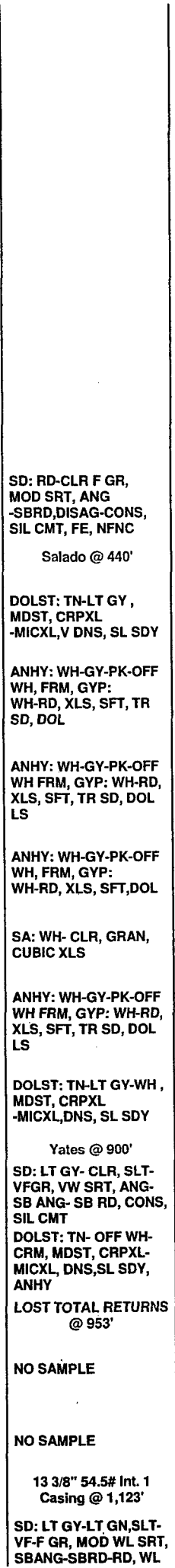
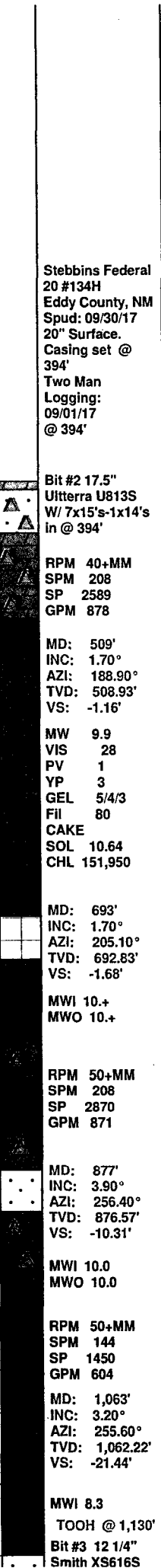
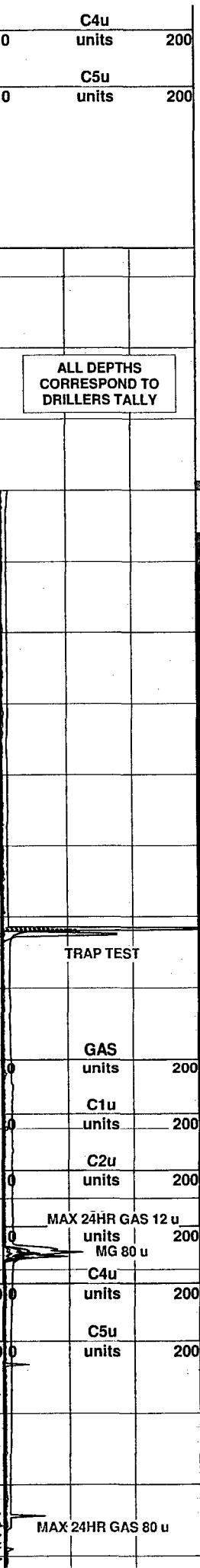
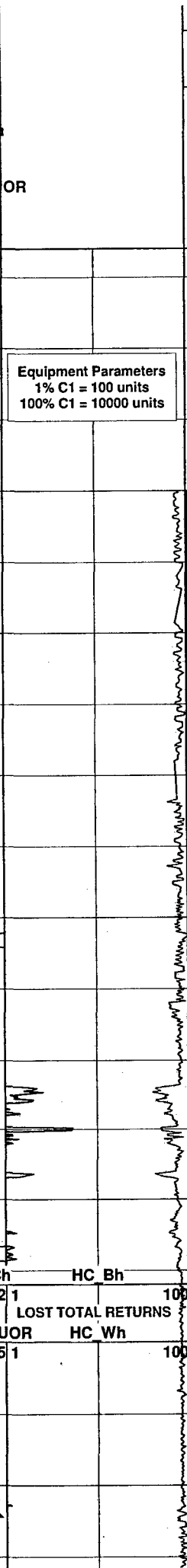
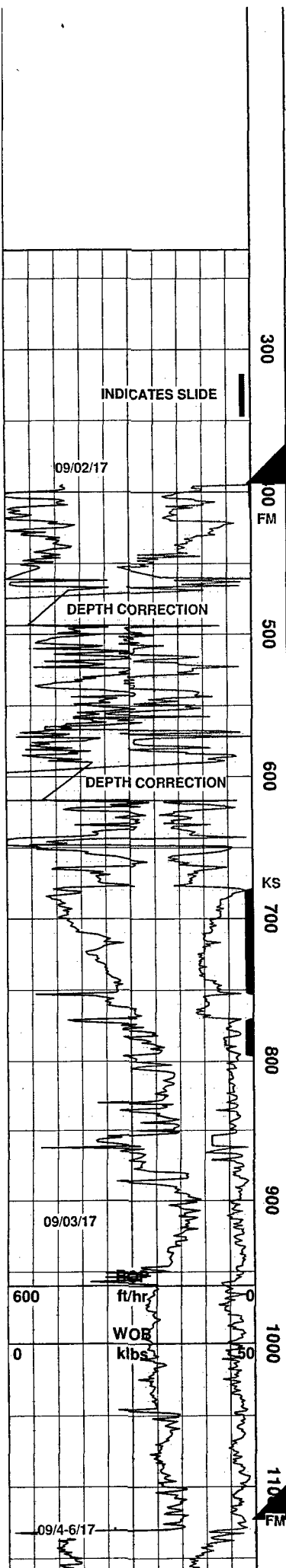
- Anhydritic
 Argillaceous
 Calcareous
 Carbonaceous
 Styrolitic
 Glauconite
 Dolomitic
 Fossiliferous
 Cherty
 Sandy

- 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	Calcm	Show Values Fluor Ch	Gas Ratio	Total Gas			Remarks	Descriptions
ROP	WOB						GAS	units	units		
600	0	0				HC_Bh	0	200	200		
		50				HC_Wh	0	200	200		
		150					0	200	200		
							0	200	200		
							0	200	200		



Stebbins Federal
20 #134H
Eddy County, NM
Spud: 09/30/17
20" Surface.
Casing set @
394'
Two Man
Logging:
09/01/17
@ 394'

Bit #2 17.5"
Ulterra U813S
W/ 7x15's-1x14's
in @ 394'

RPM 40+MM
SPM 208
SP 2589
GPM 878

MD: 509'
INC: 1.70°
AZI: 188.90°
TVD: 508.93'
VS: -1.16'

MW 9.9
VIS 28
PV 1
YP 3
GEL 5/4/3
FIL 80
CAKE
SOL 10.64
CHL 151,950

MD: 693'
INC: 1.70°
AZI: 205.10°
TVD: 692.83'
VS: -1.68'

MWI 10.+
MWO 10.+

RPM 50+MM
SPM 208
SP 2870
GPM 871

MD: 877'
INC: 3.90°
AZI: 256.40°
TVD: 876.57'
VS: -10.31'

MWI 10.0
MWO 10.0

RPM 50+MM
SPM 144
SP 1450
GPM 604

MD: 1,063'
INC: 3.20°
AZI: 255.60°
TVD: 1,062.22'
VS: -21.44'

MWI 8.3
TOOH @ 1,130'
Bit #3 12 1/4"
Smith XS616S

SD: RD-CLR F GR,
MOD SRT, ANG
-SBRD,DISAG-CONS,
SIL CMT, FE, NFNC

Salado @ 440'

DOLST: TN-LT GY,
MDST, CRPXL
-MICXL,V DNS, SL SDY

ANHY: WH-GY-PK-OFF
WH, FRM, GYP:
WH-RD, XLS, SFT, TR
SD, DOL

ANHY: WH-GY-PK-OFF
WH, FRM, GYP: WH-RD,
XLS, SFT, TR SD, DOL
LS

ANHY: WH-GY-PK-OFF
WH, FRM, GYP:
WH-RD, XLS, SFT,DOL

SA: WH- CLR, GRAN,
CUBIC XLS

ANHY: WH-GY-PK-OFF
WH, FRM, GYP: WH-RD,
XLS, SFT, TR SD, DOL
LS

DOLST: TN-LT GY-WH,
MDST, CRPXL
-MICXL,DNS, SL SDY

Yates @ 900'

SD: LT GY- CLR, SLT-
VFGR, VW SRT, ANG-
SB ANG- SB RD, CONS,
SIL CMT

DOLST: TN- OFF WH-
CRM, MDST, CRPXL-
MICXL, DNS,SL SDY,
ANHY

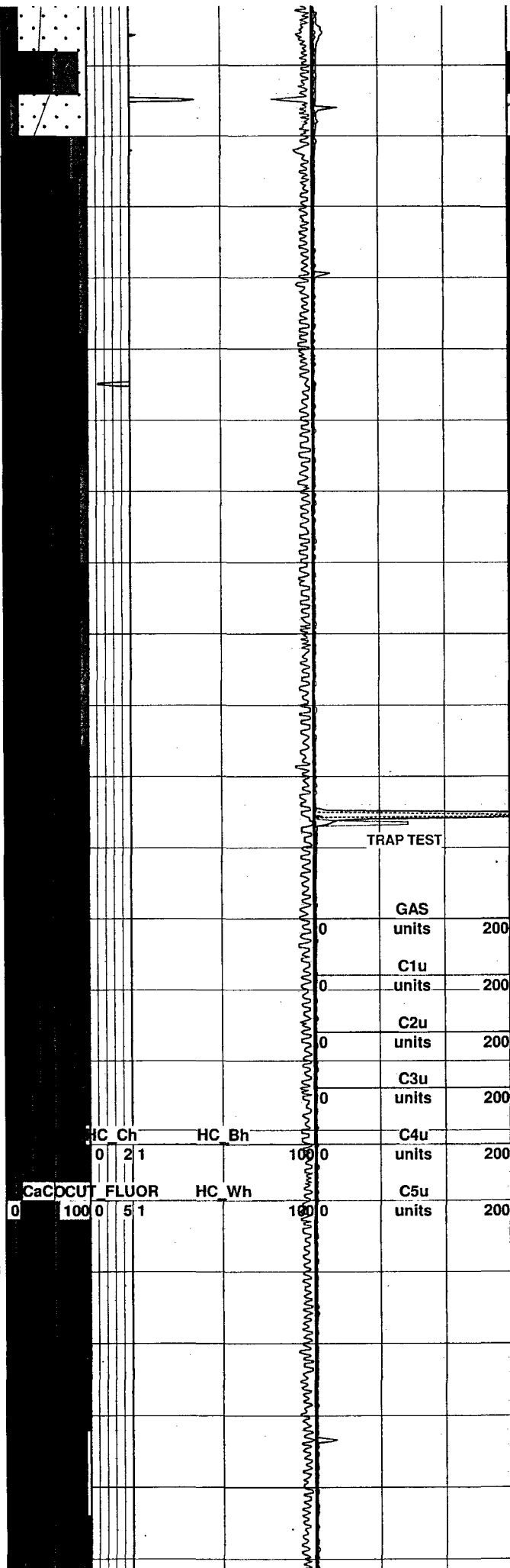
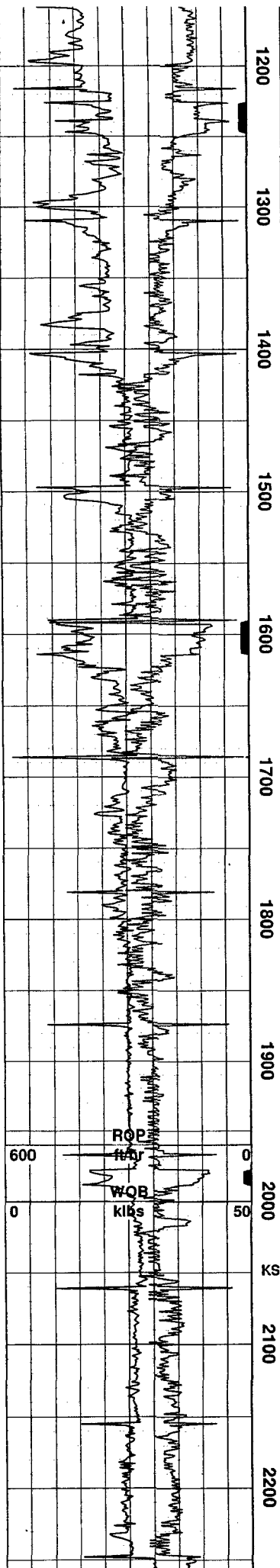
LOST TOTAL RETURNS
@ 953'

NO SAMPLE

NO SAMPLE

13 3/8" 54.5# Int. 1
Casing @ 1,123'

SD: LT GY-LT GN,SLT-
VF-F GR, MOD WL SRT,
SBANG-SBRD-RD, WL



W/6x14's in @ 1,130'			
MWI	8.35		
MWO	8.35		
RPM	45+MM		
SPM	189		
SP	2824		
GPM	791		
MD:	1,252'		
INC:	2.60°		
AZI:	288.70°		
TVD:	1,250.98'		
VS:	-24.72'		
MWI	8.35		
MWO	8.35		
RPM	45+MM		
SPM	189		
SP	2820		
GPM	790		
MD:	1,440'		
INC:	3.90°		
AZI:	298.50°		
TVD:	1,438.67'		
VS:	-34.06'		
MW	8.4		
VIS	28		
PV	1		
YP	3		
GEL	5/4/3		
Fil	80		
CAKE			
SOL	0.49		
CHL	1325		
MD:	1,628'		
INC:	3.20°		
AZI:	277.30°		
TVD:	1,626.23'		
VS:	-46.13'		
MWI	8.35		
MWO	8.35		
RPM	0+MM		
SPM	188		
SP	2380		
GPM	792		
MD:	1,815'		
INC:	3.10°		
AZI:	272.60°		
TVD:	1,812.97'		
VS:	-55.97'		
MWI	8.35		
MWO	8.35		
RPM	45+MM		
SPM	189		
SP	2977		
GPM	790		
MD:	2,002'		
INC:	3.20°		
AZI:	280.50°		
TVD:	1,999.67'		
VS:	-66.43'		
MWI	8.35		
MWO	8.35		
RPM	45+MM		
SPM	189		
SP	2170		
GPM	794		
MD:	2,189'		
INC:	3.90°		
AZI:	283.60°		
TVD:	2,186.32'		
VS:	-77.62'		

CONS, SLI HD -HD,
DOL-CALC CMT, TR
PYR

Seven Rivers @ 1,198'

DOLST: LT GY-LT TN,
MDST-WKST, CRPXL
-MICXL, DNS, TR
ANHY,TR SD

Capitan Reef @ 1,267'

LS: WH- LT GY-TN,
MDST-WKST-GRST,
MICXL-VFXL, MASS, SL
SDY, DOL, TR NOD
PYR

LS: WH- LT GY-TN,
MDST-WKST-GRST,
MICXL-VFXL, MASS,
FOSS, DOL

LS: WH- LT GY-TN,
MDST-WKST-GRST,
MICXL-VFXL,
MASS,FOSS, DOL,

LS: WH- LT GY-LT TN,
MDST-WKST-GRST,
MICXL-VFXL,
MASS-DNS,FOSS, DOL,

LS: WH- LT GY-LT TN,
MDST-WKST-GRST,
MICXL-VFXL,
MASS-DNS IP,FOSS,
DOL,

LS: CRM-WH- LT GY-LT
TN,
MDST-WKST-GRST,
MICXL-VFXL,
MASS-DNS IP,FOSS,
DOL,

LS: CRM-WH- LT GY-LT
TN,
MDST-WKST-GRST,
MICXL-VFXL,
MASS-DNS IP,FOSS,
SL DOL

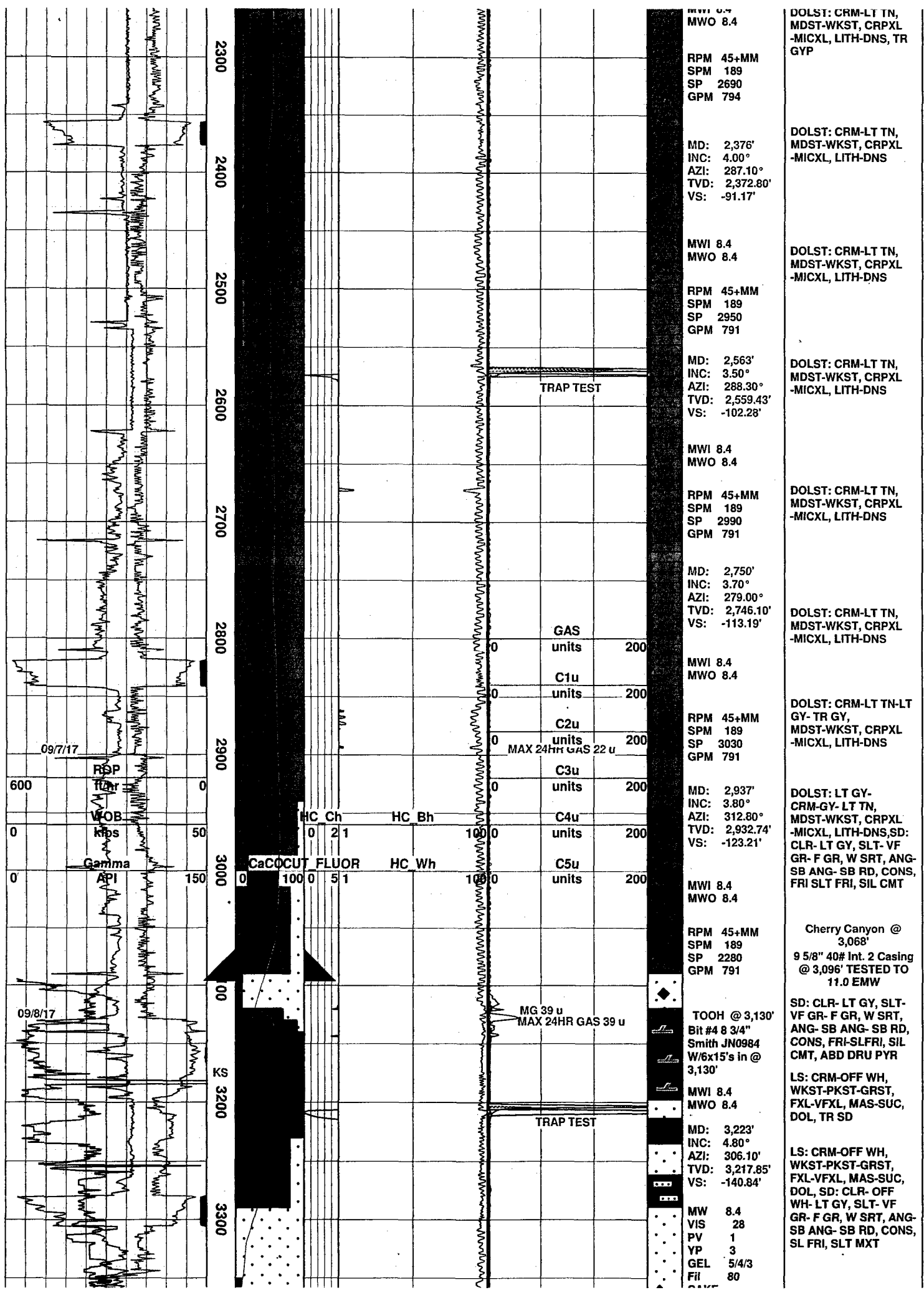
LS: CRM-WH- LT GY-LT
TN,
MDST-WKST-GRST,
MICXL-VFXL,
MASS-DNS IP,FOSS,
SL DOL

DOLST: CRM-LT TN,
MDST-WKST, CRPXL
-MICXL, LITH-DNS

DOLST: CRM-LT TN,
MDST-WKST, CRPXL
-MICXL, LITH-DNS, TR
GYP

DOLST: CRM-LT TN,
MDST-WKST, CRPXL
-MICXL, LITH-DNS

LS: CRM-WH- LT GY-LT
TN,
MDST-WKST-GRST,
MICXL-VFXL,
MASS-DNS IP, DOL, TR
SST



MWI 8.4
MWO 8.4
RPM 45+MM
SPM 189
SP 2690
GPM 794

MD: 2,376'
INC: 4.00°
AZI: 287.10°
TVD: 2,372.80'
VS: -91.17'

MWI 8.4
MWO 8.4
RPM 45+MM
SPM 189
SP 2950
GPM 791

MD: 2,563'
INC: 3.50°
AZI: 288.30°
TVD: 2,559.43'
VS: -102.28'

MWI 8.4
MWO 8.4
RPM 45+MM
SPM 189
SP 2990
GPM 791

MD: 2,750'
INC: 3.70°
AZI: 279.00°
TVD: 2,746.10'
VS: -113.19'

MWI 8.4
MWO 8.4
RPM 45+MM
SPM 189
SP 3030
GPM 791

MD: 2,937'
INC: 3.80°
AZI: 312.80°
TVD: 2,932.74'
VS: -123.21'

MWI 8.4
MWO 8.4
RPM 45+MM
SPM 189
SP 2280
GPM 791

TOOH @ 3,130'
Bit #4 8 3/4"
Smith JN0984
W/6x15's in @ 3,130'

MWI 8.4
MWO 8.4
MD: 3,223'
INC: 4.80°
AZI: 306.10°
TVD: 3,217.85'
VS: -140.84'

MW 8.4
VIS 28
PV 1
YP 3
GEL 5/4/3
Fil 80

DOLST: CRM-LT TN,
MDST-WKST, CRPXL
-MICXL, LITH-DNS, TR
GYP

DOLST: CRM-LT TN,
MDST-WKST, CRPXL
-MICXL, LITH-DNS

DOLST: CRM-LT TN,
MDST-WKST, CRPXL
-MICXL, LITH-DNS

DOLST: CRM-LT TN,
MDST-WKST, CRPXL
-MICXL, LITH-DNS

DOLST: CRM-LT TN,
MDST-WKST, CRPXL
-MICXL, LITH-DNS

DOLST: CRM-LT TN,
MDST-WKST, CRPXL
-MICXL, LITH-DNS

DOLST: CRM-LT TN-LT
GY- TR GY,
MDST-WKST, CRPXL
-MICXL, LITH-DNS

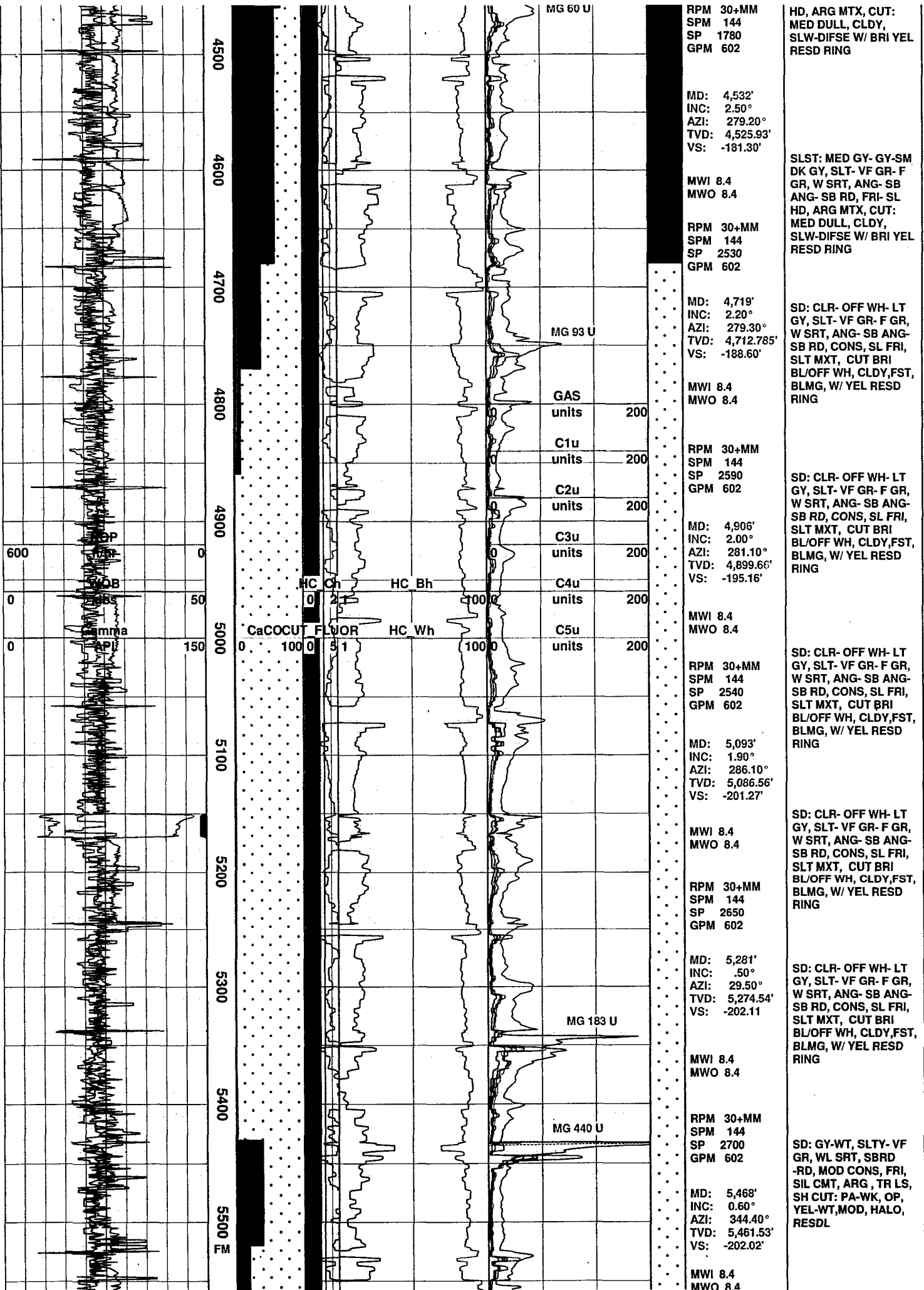
DOLST: LT GY-
CRM-GY- LT TN,
MDST-WKST, CRPXL
-MICXL, LITH-DNS, SD:
CLR- LT GY, SLT- VF
GR- F GR, W SRT, ANG-
SB ANG- SB RD, CONS,
FRI SLT FRI, SIL CMT

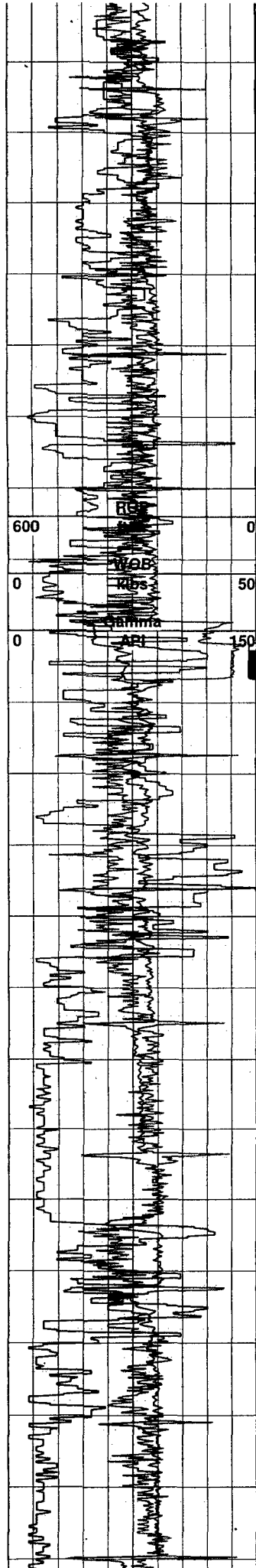
Cherry Canyon @
3,068'
9 5/8" 40# Int. 2 Casing
@ 3,096' TESTED TO
11.0 EMW

SD: CLR- LT GY, SLT-
VF GR- F GR, W SRT,
ANG- SB ANG- SB RD,
CONS, FRI-SLFRI, SIL
CMT, ABD DRU PYR

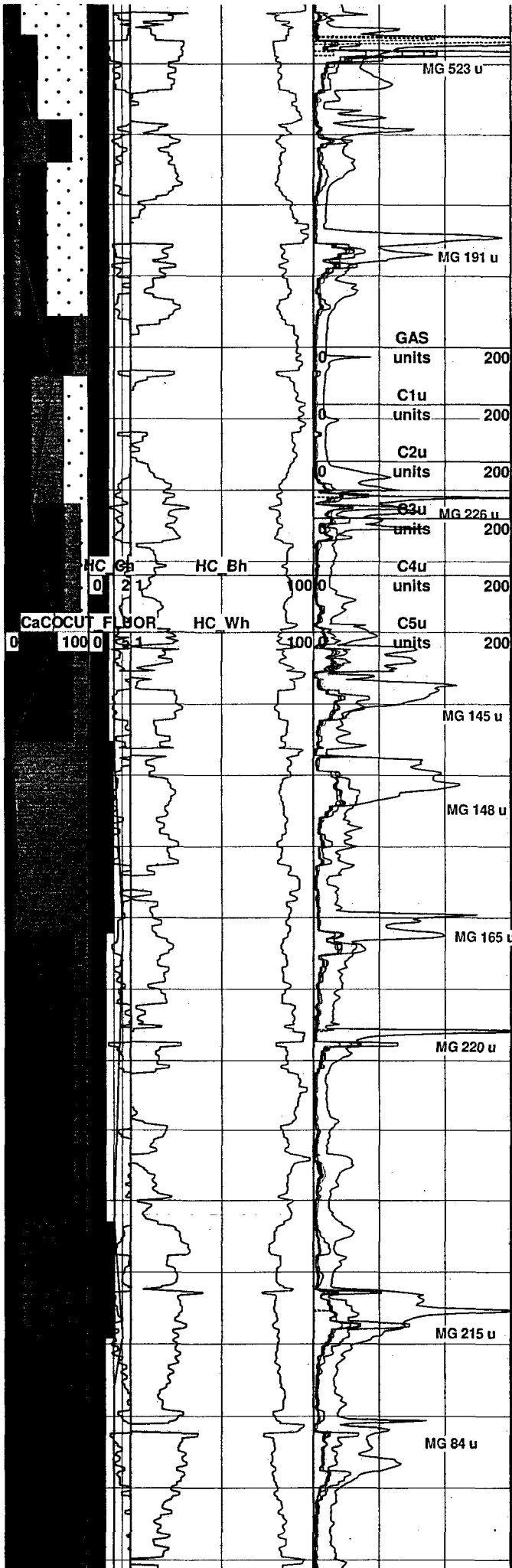
LS: CRM-OFF WH,
WKST-PKST-GRST,
FXL-VFXL, MAS-SUC,
DOL, TR SD

LS: CRM-OFF WH,
WKST-PKST-GRST,
FXL-VFXL, MAS-SUC,
DOL, SD: CLR- OFF
WH- LT GY, SLT- VF
GR- F GR, W SRT, ANG-
SB ANG- SB RD, CONS,
SL FRI, SLT MXT





5600
5700
5800
5900
6000
6100
6200
6300
6400
6500
6600



RPM 31+MM
SPM 142
SP 2789
GPM 602

MD: 5,655'
INC: 0.70°
AZI: 313.80°
TVD: 5,648.52'
VS: -203.06'

MWI 8.4
MWO 8.4

RPM 30+MM
SPM 144
SP 2706
GPM 602

MD: 5,842'
INC: 1.30°
AZI: 289.50°
TVD: 5,835.50'
VS: -205.73'

MWI 8.4
MWO 8.4

RPM 30+MM
SPM 109
SP 1597
GPM 459

MD: 6,029'
INC: 1.0°
AZI: 0.80°
TVD: 6,022.45'
VS: -209.04'

MWI 8.4
MWO 8.4

RPM 31+MM
SPM 142
SP 2640
GPM 603

MD: 6,216'
INC: 1.20°
AZI: 4.40°
TVD: 6,209.40'
VS: -208.18'

MWI 8.4
MWO 8.4

RPM 30+MM
SPM 144
SP 2598
GPM 602

MD: 6,403'
INC: 1.0°
AZI: 0.50°
TVD: 6,396.37'
VS: -207.83'

MWI 8.4
MWO 8.4

RPM 30+MM
SPM 144
SP 2757
GPM 602

MD: 6,590'
INC: 1.0°
AZI: 338.20°
TVD: 6,583.34'
VS: -208.15'

SLTST: BLK-DK GY,
SLT VF, BLKY-FLK,
CONS, FRI, SLT MTX,
SD; LT GY, VF GR,
MOD SRT, SB RD- SB
ANG, MOD CONS,
CALC MTX. CUT
FLASH, ORNG RESD
RING.

SD: CLR- WH- LT GY,
VF-F-MED GR, W SRT,
SB ANG- SB RD,
CONS-SL FRI, SL ARG
CUT BRI BL WH,
CLDY,FST, BLMG, W/
YEL RESD RING

BS Lime @ 5,779'

LS: BLK-DK GY- TR
CRM, MDST- WKST,
VFXL- FXL, DNS-
MASS, ARG, CARB,
SLTY, CUT: BRI,
BL/WH, CLDY, FST,
DIFSE, W/DL YEL
RESDL RING

SH: DK GY-MED GY-
TR BLK, FRM-SLI HD-
HD, BLKY- SB BLKY-
PLTY, SLTY, CALC,
CARB, CUT: BRI,
BL/WH CLDY,
FST,FLASH, W/ MED
YEL RESDL RING

LS: BLK-DK GY, MDST-
WKST, VFXL- FXL,
DNS- MASS, ARG,
CARB CUT: BRI, BL
WH, CLDY, FST,
DIFSE,DL YEL RESDL
RING

Upper Avalon Shale @
6,076'

SH: DK GY- MED GY-
BLK, FRM- SLI HD,
BLKY- SB BLKY- PLTY,
SLTY, CARB, CUT: BRI,
BL- WH, CLDY, FST,
DIFSE, YEL RESDL
RING

Avalon Carbonate @
6,211'

LS: DK GY- MED GY-
LT GY, MDST- WKST-
PKST, VFXL- FXL-
MICXL, DNS- MAS,
ARG CUT: DL, MKY,
BL, SLW, HALO, DL
YEL RING

LS: DK GY- MED GY-
LT GY, MDST- WKST-
PKST, VFXL- FXL-
MICXL, DNS- MAS,
ARG CUT: DL, MKY,
BL, SLW, HALO, DL
YEL RING

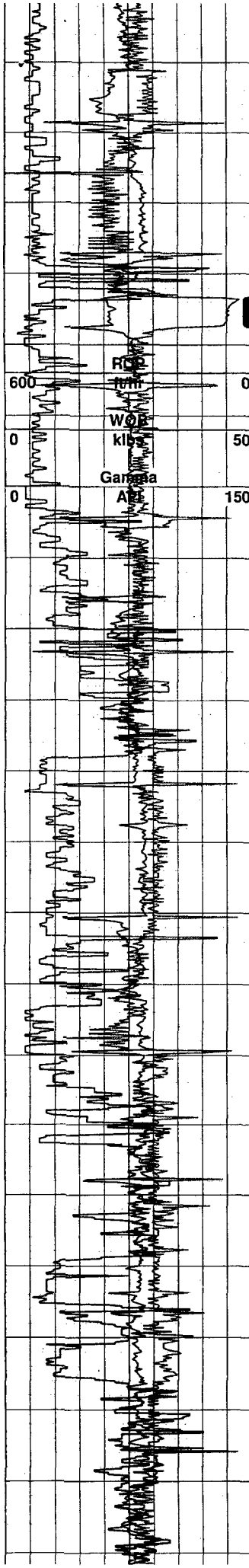
Lower Avalon Shale @
6,415'

SH: DK GY-BLK, SL
HD-HD, BLKY-
SBBLY, CARB, V
SLTY CUT: DL-BRI,
MKY BL-WH,FST,
BLMG, THK ORG RES
HALO

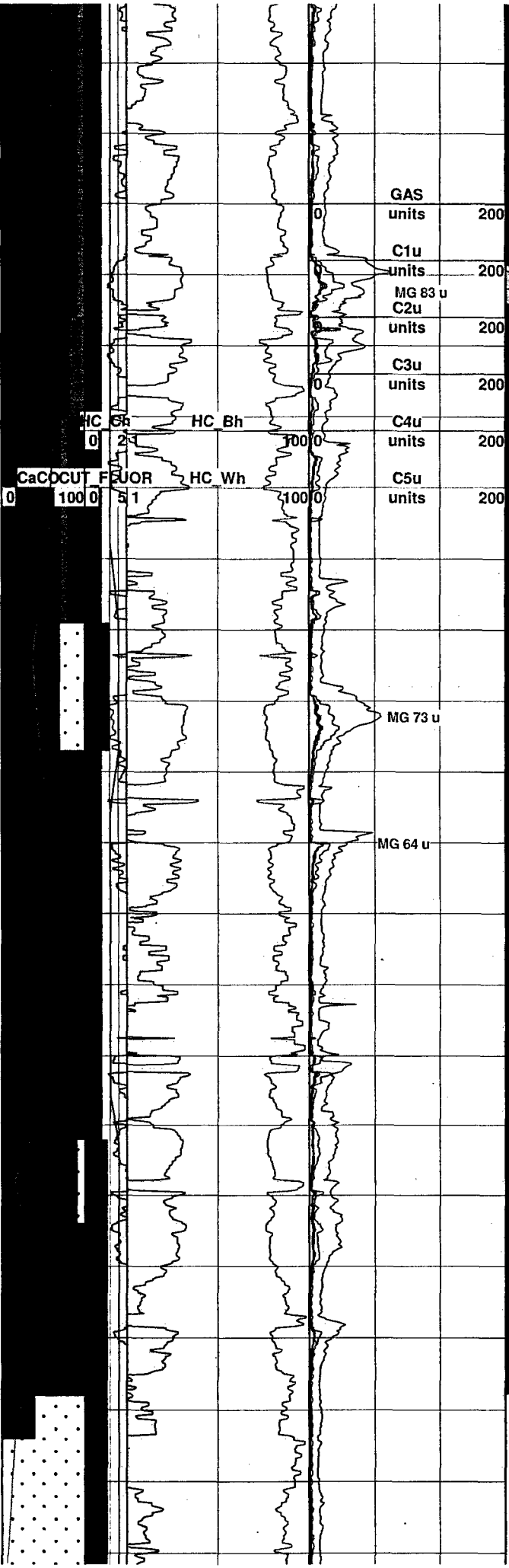
First Bone Spring
Carbonate @ 6,496'

LS: DK GY- GY- CRM,
MDST- WKST-PKST,
VFXL- FXL, ARG CUT:
BRI, BL WH,MKY, MOD,
DIFSE, MOD YEL
RESDL RING

LS: DK GY- GY- CRM,
MDST- WKST-PKST,



6700
6800
6900
7000
7100
7200
7300
7400
7500
7600
7700



MWI 8.4
MWO 8.4

RPM 30+MM
SPM 143
SP 2807
GPM 601

MD: 6,777'
INC: 1.20°
AZI: 334.20°
TVD: 6,770.32'
VS: -209.16'

MW 8.45
VIS 28
PV 1
YP 3
GEL 5/4/3
FI 80

CAKE
SOL 0.85
CHL 2440

MD: 6,964'
INC: 1.50°
AZI: 164.60°
TVD: 6,957.30'
VS: -209.90'

MWI 8.4
MWO 8.4

RPM 30+MM
SPM 142
SP 2733
GPM 601

MD: 7,151'
INC: 1.40°
AZI: 185.60°
TVD: 7,144.24'
VS: -210.02'

MWI 8.4
MWO 8.4

RPM 30+MM
SPM 143
SP 2710
GPM 602

MD: 7,338'
INC: 0.90°
AZI: 153.90°
TVD: 7,331.21'
VS: -209.62'

MWI 8.4
MWO 8.4

RPM 30+MM
SPM 144
SP 2607
GPM 602

MD: 7,525'
INC: 0.90°
AZI: 139.80°
TVD: 7,518.19'
VS: -208.46'

MWI 8.4
MWO 8.4

RPM 30+MM
SPM 144
SP 2700
GPM 602

MD: 7,712'
INC: 0.90°
AZI: 141.40°
TVD: 7,705.17'
VS: -206.64'

VFXL- FXL, ARG CUT:
DL-BRI, BL, MKY, MOD,
DIFSE, YEL GN RESDL
RING

LS: DK GY- GY- CRM,
MDST- WKST-PKST,
VFXL- FXL, ARG CUT:
DL-BRI, BL, MKY, MOD,
DIFSE, YEL GN RESDL
RING

SH: DK GY-BLK, SL
HD-HD, BLKY-
SBBLY, CARB, SLTY
CUT: DL, MKY, BL,
MOD, BLMG, DUL YEL
RESDL RING

LS: DK GY- GY, MDST-
WKST-PKST, VFXL-
FXL, ARG CUT: DL-BRI,
BL, MKY, MOD,
DIFSE, YEL GN RESDL
RING

LS: DK GY- GY, MDST-
WKST-PKST, VFXL-
FXL, ARG CUT: DL-BRI,
BL, MKY, MOD,
DIFSE, YEL GN RESDL
RING

First Bone Spring Sand
@ 7,095'

SLTST: BLK-DK GY,
SLT- VF GR, BLKY-
FLKY, CONS, FRI, CUT
BRI, CLDY, BL/WH, FST,
STMG, BRI YEL RESDL
RING.

Second Bone Spring
Carbonate @ 7185'

LS: DK GY- GY- CRM,
MDST- WKST-PKST,
VFXL- FXL, ARG CUT:
DL-BRI, BL, MKY, MOD,
DIFSE, YEL GN RESDL
RING

LS: DK GY- GY, MDST-
WKST-PKST, VFXL-
FXL, ARG CUT: DL-BRI,
BL, MKY, MOD, DIFSE,
YEL GN RESDL RING

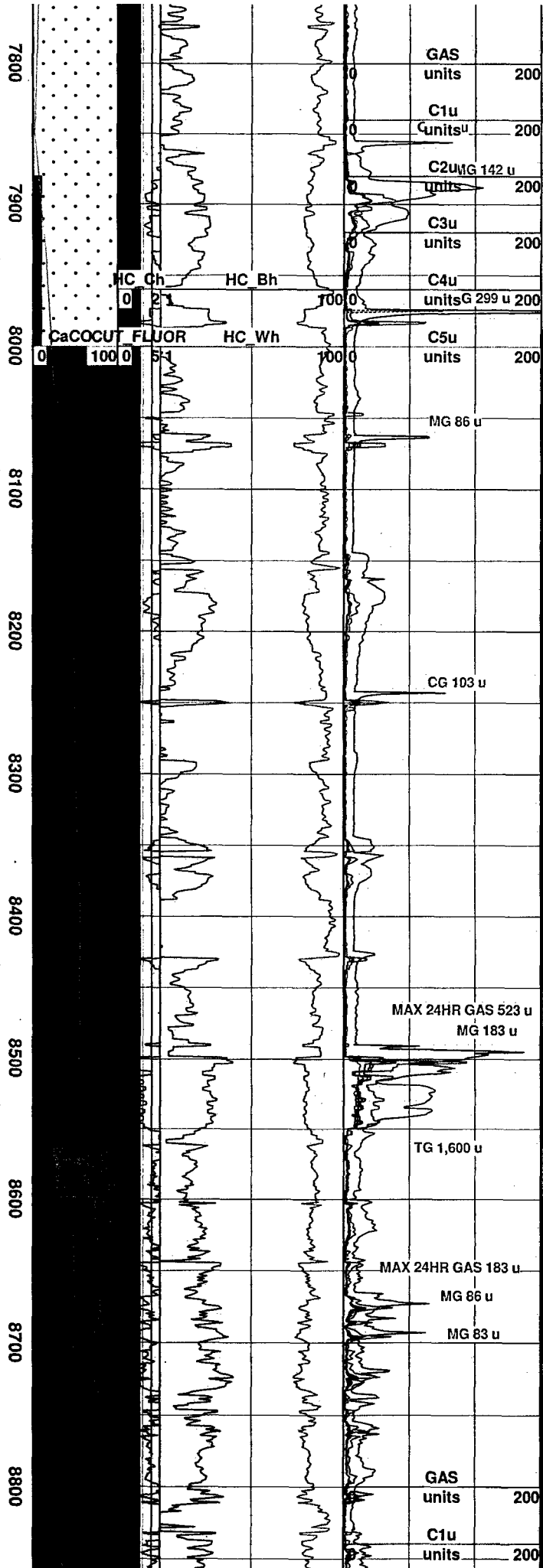
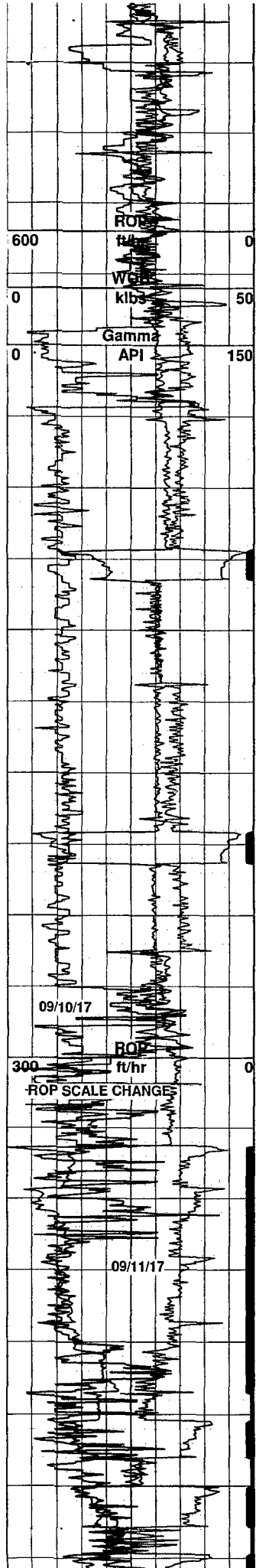
LS: DK GY- GY, MDST-
WKST-PKST, VFXL-
FXL, ARG CUT: DL-BRI,
BL, MKY, MOD, DIFSE,
YEL GN RESDL RING

SLTST: BLK-DK GY,
SLT- VF GR, BLKY-
FLKY, CONS, FRI, CUT
BRI, CLDY, BL/WH, FST,
STMG, BRI YEL RESDL
RING.

LS: DK GY- GY, MDST-
WKST-PKST, VFXL-
FXL, ARG CUT: DL-BRI,
BL, MKY, MOD, DIFSE,
YEL GN RESDL RING

Second Bone Spring
Sand @ 7595'

SD: CLR- WH- LT GY,
VF-F-MED GR, W SRT,
SB ANG- SB RD,
CONS-SL FRI, SL ARG
CUT BRI BL WH,
CLDY, FST, BLMG, W/
YEL RESD RING



MWI 8.4	
MWO 8.4	
RPM 30+MM	
SPM 144	
SP 2020	
GPM 602	
MD: 7,894'	
INC: 1.20°	
AZI: 132.50°	
TVD: 7,887.14'	
VS: -204.24'	
MWI 8.4	
MWO 8.4	
RPM 30+MM	
SPM 144	
SP 2750	
GPM 602	
MD: 8,086'	
INC: 1.00°	
AZI: 180.30°	
TVD: 8,079.10'	
VS: -202.20'	
MWI 8.4	
MWO 8.4	
RPM 30+MM	
SPM 144	
SP 2500	
GPM 602	
MD: 8,274'	
INC: 3.60°	
AZI: 105.40°	
TVD: 8,266.94'	
VS: -195.75'	
MWI 8.4	
MWO 8.4	
RPM 30+MM	
SPM 144	
SP 2480	
GPM 602	
MD: 8,461'	
INC: .90°	
AZI: 151.20°	
TVD: 8,453.85'	
VS: -191.73'	
TOOH @ 8,563'	
KOP @ 8,563'	
Bit #5 8 3/4"	
Halliburton	
GTD55DM	
W/5x16's in @ 8,563'	
MW 8.45	
VIS 28	
PV 1	
YP 3	
GEL 5/4/3	
FIL 80	
CAKE	
SOL 0.83	
CHL 5385	
MWI 8.5+	
MWO 8.5+	
MD: 8,812'	
INC: 32.30°	
AZI: 100.10°	
TVD: 8,788.82'	

SD: CLR- WH- LT GY,
VF-F-MED GR, W SRT,
SB ANG- SB RD,
CONS-SL FRI, SL ARG
CUT BRI BL WH,
CLDY,FST, BLMG, W/
YEL RESD RING

SD: CLR- WH- LT GY,
VF-F-MED GR, W SRT,
SB ANG- SB RD,
CONS-SL FRI, SL ARG
CUT BRI BL WH,
CLDY,FST, BLMG, W/
YEL RESD RING

Third Bone Spring
Carbonate @ 7,987'

LS: DK GY- GY, MDST-
WKST-PKST, VFXL-
FXL, ARG CUT: DL-BRI,
BL, MKY, MOD, DIFSE,
YEL GN RESDL RING

LS: DK GY- GY, MDST-
WKST-PKST, VFXL-
FXL, ARG CUT: DL-BRI,
BL, MKY, MOD, DIFSE,
YEL GN RESDL RING

LS: DK GY- GY, MDST-
WKST-PKST, VFXL-
FXL, ARG CUT: DL-BRI,
BL, MKY, MOD, DIFSE,
YEL GN RESDL RING

LS: DK GY- GY, MDST-
WKST-PKST, VFXL-
FXL, ARG CUT: DL-BRI,
BL, MKY, MOD, DIFSE,
YEL GN RESDL RING

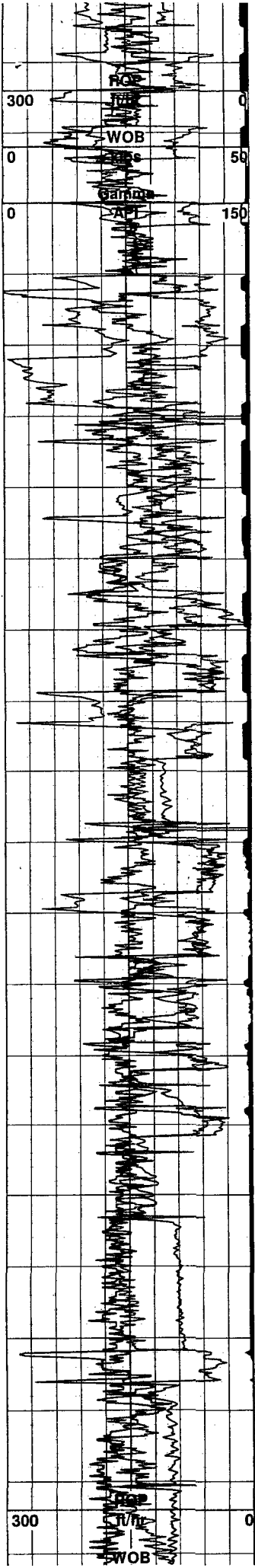
LS: DK GY- GY-
CRM-TR TN, MDST-
WKST-PKST, VFXL-
FXL, ARG CUT: DL-BRI,
BL, MKY, MOD, DIFSE,
YEL GN RESDL RING

SH ; BK-DK GY-TR
MED GY, FRM-SL
HD,BLKY-SB BLKY-
PLTY, SLTY LAM, SLI
CALC- CARB,CUT: BRI
BL/OFF WH, MKY-
FST-DIFSE, W/ BRI YEL
RESDL RING

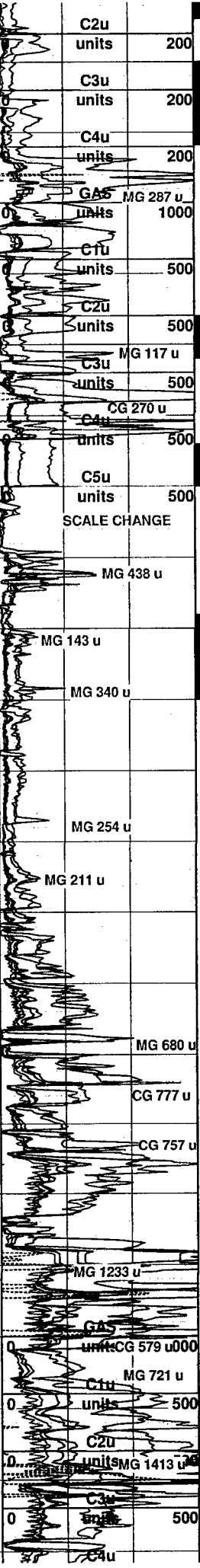
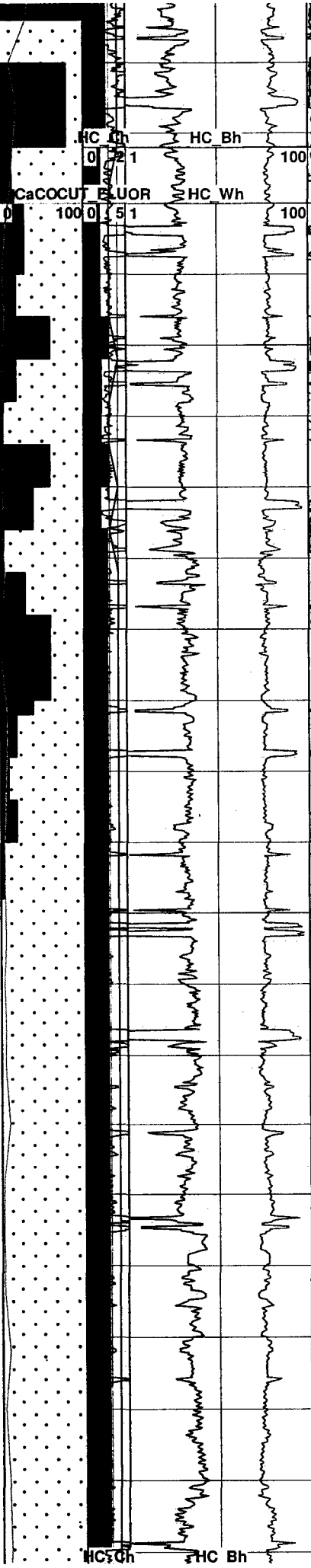
LS: DK GY- GY-
CRM-TR TN, MDST-
WKST-PKST, VFXL-
FXL, ARG CUT: DL-BRI,
BL/OFF WH, MKY,
MOD, DIFSE, W/ YEL
RESDL RING

Third Bone Spring
Sand @ 8,788"

SLTST: MED GY- GY,
SLT- VF GR- F GR,
BLKY- SB BLKY,
CONS, FRI- SL FRI,
CALC CMT, CARB,
CUT- BRI BL/OFF WH



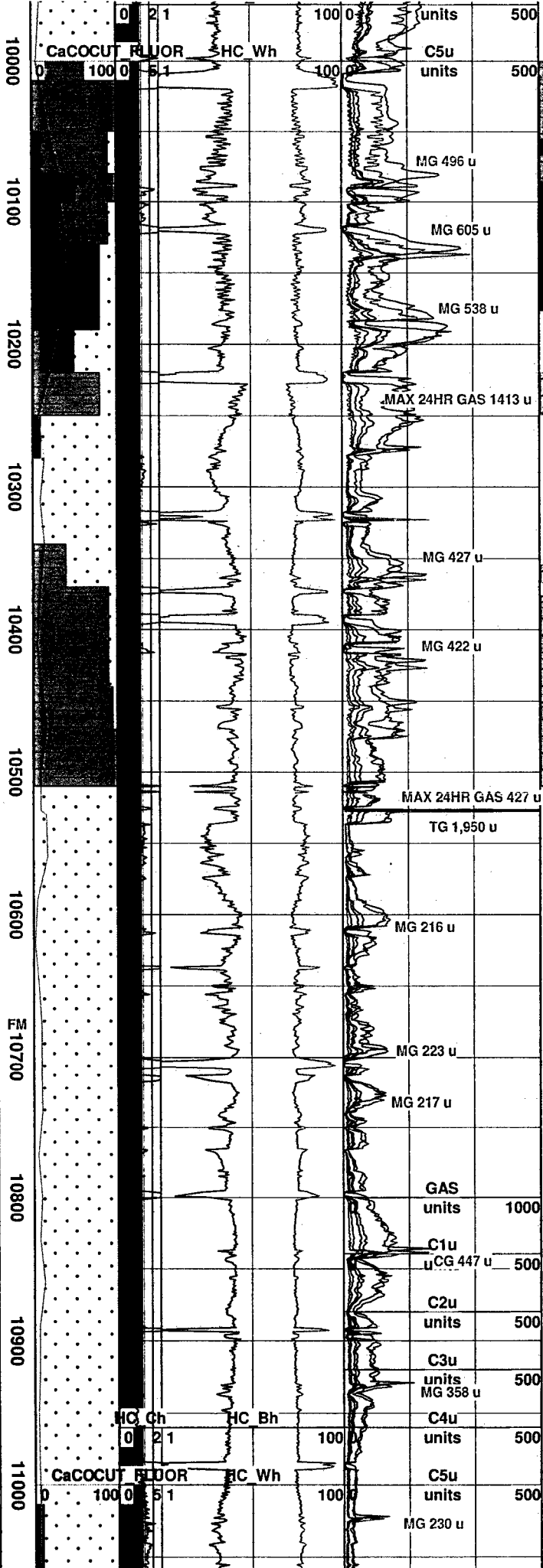
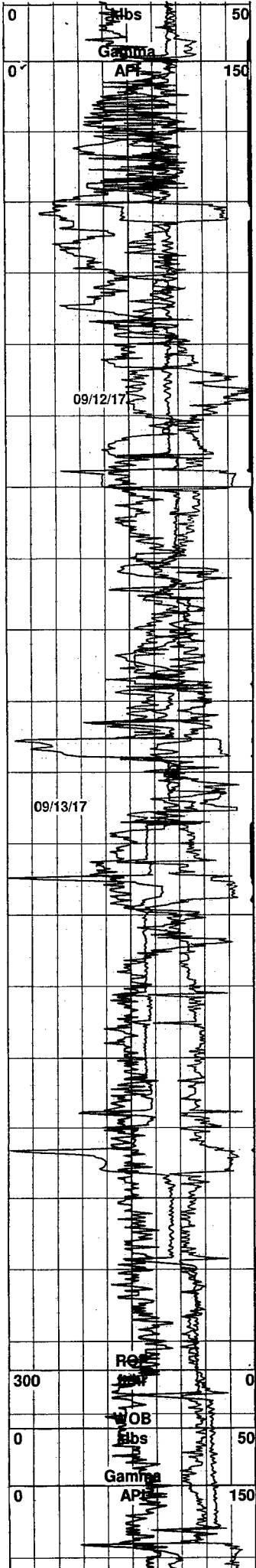
8900
9000 FM
9100
9200
9300
9400
9500
9600 KS
9700
9800
9900



C2u	units	200
C3u	units	200
C4u	units	200
GA5	MG 287 u	1000
C7u	units	500
C2u	units	500
C3u	MG 117 u	500
C4u	CG 270 u	500
C5u	units	500
SCALE CHANGE		
MG 438 u		
MG 143 u		
MG 340 u		
MG 254 u		
MG 211 u		
MG 680 u		
CG 777 u		
CG 757 u		
MG 1233 u		
CG 579 u	0000	
MG 721 u		
C7u	units	500
C2u	units	500
MG 1413 u		
C3u	units	500
C4u	units	500

VS: -112.89'
MWI 8.5+
MWO 8.5+
RPM 20+MM
SPM 144
SP 2550
GPM 602
MD: 9,000'
INC: 46.70°
AZI: 102.40°
TVD: 8,831.81'
VS: 5.91'
MWI 8.7+
MWO 8.7+
RPM 0+MM
SPM 144
SP 2208
GPM 601
MD: 9,140'
INC: 50.10°
AZI: 98.80°
TVD: 9,024.39'
VS: 109.11'
MWI 8.9+
MWO 8.9+
RPM 20+MM
SPM 143
SP 2497
GPM 602
MD: 9,280'
INC: 60.80°
AZI: 90.0°
TVD: 9,102.58'
VS: 224.52'
MWI 8.9
MWO 8.9
RPM 0+MM
SPM 144
SP 2028
GPM 602
MD: 9,421'
INC: 68.80°
AZI: 86.90°
TVD: 9,161.53'
VS: 352.37'
MW 9.0
VIS 31
PV 5
YP 4
GEL 14/9/6
FII 58
CAKE 1.0
SOL 4.6
CHL 50,000
MD: 9,561'
INC: 81.10°
AZI: 91.10°
TVD: 9,198.11'
VS: 487.11'
MWI 9.1
MWO 9.1
RPM 35+MM
SPM 144
SP 2190
GPM 601
MD: 9,748'
INC: 90.80°
AZI: 89.80°
TVD: 9,205.11'
VS: 673.76'
MWI 9.1+
MWO 9.1+
RPM 35+MM
SPM 144
SP 2680
GPM 601
MD: 9,935'
INC: 88.40°
AZI: 89.50°
TVD: 9,299.51'

CUT: DR-DOL W/ W/ FST DIFSE W/ BRI YEL RESDL RING
SD: MED GY- GY- CLR, VF-F-MED GR, W SRT, SB ANG- SB RD, CONS-SL FRI, SL ARG CUT: DL BL/WH, CLDY,FST, BLMG, W/ YEL RESD RING
SD: GY-LT GY, VVF-F GR, WL SRT, SBANG -SBRD-RD, CONS-SL FR-HD, SL ARG, SL CALC CMT, CUT:WK-DUL,CLR, BL-WH,MOD, STMG-HALO YEL GLD RESD
SLTST: MED GY- GY, SLT- VF GR- F GR, BLKY- SB BLKY, CONS, FRI- SL FRI, CALC CMT, CARB, CUT: BRI BL-WH, FST DIFS,BRI YEL RESDL RING
SD: GY-LT GY, VVF-F GR, WL SRT, SBANG -SBRD-RD, CONS-SL FR-HD, SL ARG, SL CALC CMT, CUT:DL-BRI,CLR, BL-WH,MOD-FST, STMG-HALO YEL GLD RESD
SLTST: MED GY- GY, SLT- VF GR- F GR, BLKY- SB BLKY, CONS, FRI- SL FRI, CALC CMT, CARB, CUT: BRI BL-WH, FST ,DIFSE,YEL RESDL RING
SD: GY-LT GY-WH, VVF-F GR, WL SRT,SBRD-RD, CONS-SL FR-HD, SL ARG, CALC-DOL CMT CUT:DL-BRI,CLR, BL-WH,MOD-FST, STMG-HALO YEL GLD RESD
SD: GY-LT GY-WH, VVF-F GR, WL SRT,SBRD-RD, CONS-SL FR-HD, SL ARG, CALC-DOL CMT CUT:DL-BRI,CLR, BL-WH,MOD-FST, STMG-HALO YEL GLD RESD
SD: GY-LT GY-WH, VVF-F GR, WL SRT,SBRD-RD, CONS-SL FR-HD, SL ARG, CALC-DOL CMT CUT:DL-BRI,CLR, BL-WH,MOD-FST, STMG-HALO YEL GLD RESD



VS: 860.68'
MWI 9.1+
MWO 9.1+
RPM 20+MM
SPM 144
SP 3110
GPM 601
MD: 10,123'
INC: 92.40°
AZI: 89.40°
TVD: 9,210.82'
VS: 1,048.63'
MWI 9.2
MWO 9.2
RPM 30+MM
SPM 144
SP 2740
GPM 601
MD: 10,310'
INC: 93.60°
AZI: 89.40°
TVD: 9,203.00'
VS: 1,235.43'
MWI 9.2
MWO 9.2
RPM 30+MM
SPM 144
SP 2890
GPM 601
MD: 10,498'
INC: 92.30°
AZI: 88.70°
TVD: 9,201.44'
VS: 1,423.33'
TOOH @ 10,527'
Bit #6 8 3/4"
Baker TD506FTX
W/6x15's' in @ 10,527'
MWI 9.3
MWO 9.3
RPM 40+MM
SPM 144
SP 2669
GPM 604
MD: 10,684'
INC: 92.40°
AZI: 90.10°
TVD: 9,194.54'
VS: 1,609.19'
MWI 9.3+
MWO 9.3
RPM 0+MM
SPM 144
SP 2293
GPM 604
MD: 10,872'
INC: 92.70°
AZI: 89.60°
TVD: 9,186.26'
VS: 1,792.0'
MWI 9.3
MWO 9.3
RPM 50+MM
SPM 143
SP 2688
GPM 601
MD: 11,059'

SH: BLK-DK GY- MED
GY, SL HD- HD,
BLKY-SB BLKY- TR
PLTY, SLTY LAM,
CARB CUT: BRI
BL/WH, MLKY,
FST,HALO,W/ BRI
NYEL RESDL RING

LS: BLK-DK GY- SM
CRM- WH, MDST-PKST,
VFXL-CXL, MAS-DTRL,
CARB, ARG, CUT: BRI
BL/WH, CLDY, FST
DIFSE, W/ YEL GN
RESDL RING

SD: GY-LT GY-WH,
VVF-F GR, WL
SRT,SBRD-RD,
CONS-SL FR-HD, SL
ARG, CALC-DOL CMT
CUT:DL-BRI,CLR,
BL-WH,MOD-FST,
STMG-HALO YEL
RESDL RING

SD: GY-LT GY-WH,
VVF-F GR, WL
SRT,SBRD-RD,
CONS-SL FR-HD, SL
ARG, CALC-DOL CMT
CUT:DL-BRI,CLR,
BL-WH,MOD-FST,
STMG-HALO YEL
RESDL RING

SH: BLK-DK GY- MED
GY, SL HD- HD,
BLKY-SB BLKY- TR
PLTY, SLTY LAM,
CARB CUT: BRI
BL/WH, MLKY,
FST,HALO,W/ BRI YEL
RESDL RING

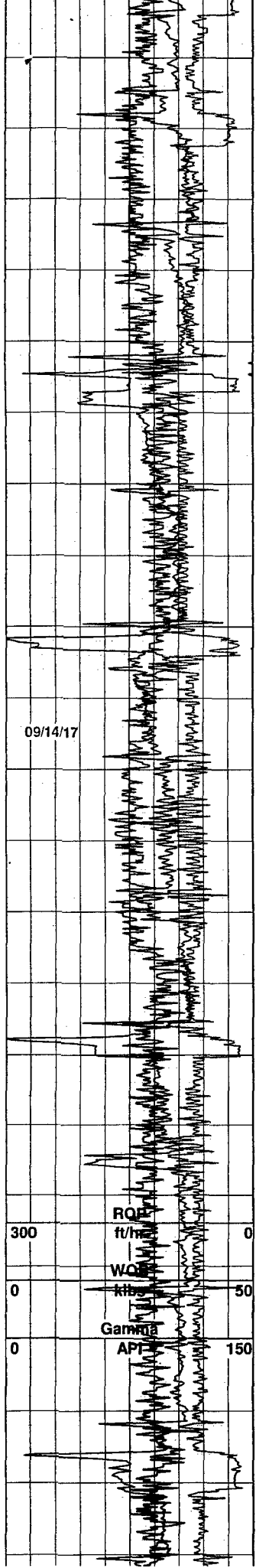
SD: CLR- LT GY- OFF
WH, SLT- VF GR- F GR,
VW SRT, ANG- SB
ANG- SB RD,CONS,
FRI- SL FR, CALC CMT
CUT: DL BL, CLR, SLW
BLMG, W/ DL YEL
RESDL RING

SD: GY-LT GY, VVF-F
GR, WL SRT, SBRD-RD,
CONS-SL FRI,CALC-
DOL CMT, SL ARG IP
CUT:WK-DL,CLR,
BL-WH,FST, HALO

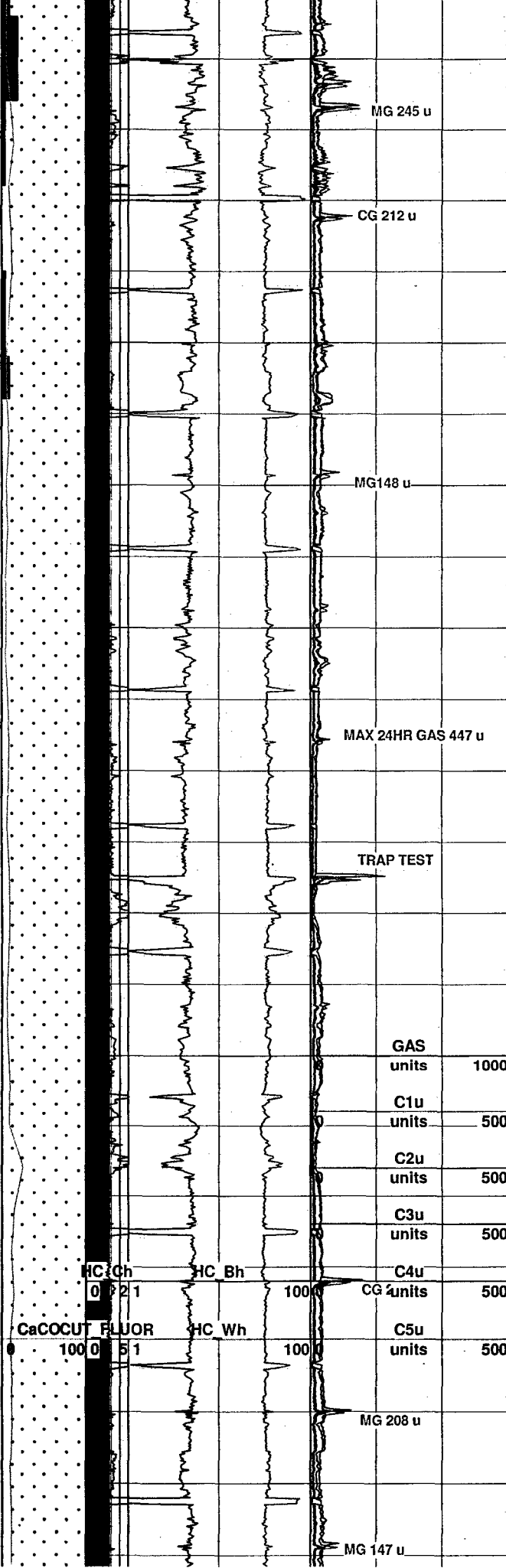
SD: GY-LT GY-WH,
VVF-F GR, WL SRT,
SBRD-RD, CONS-SL
FRI,CALC- DOL CMT,
SL ARG IP
CUT:WK-DI,CLR,
BL-WH,MOD-FST,
HALO

SD: GY-LT GY-WH,
VVF-F GR, WL SRT,
SBRD-RD, CONS-SL
FRI,CALC- DOL CMT,
SL ARG IP
CUT:WK-DL,CLR,
BL-WH,MOD-FST,
HALO

SLTST: MED GY- GY,
SLT- VF GR, F GR



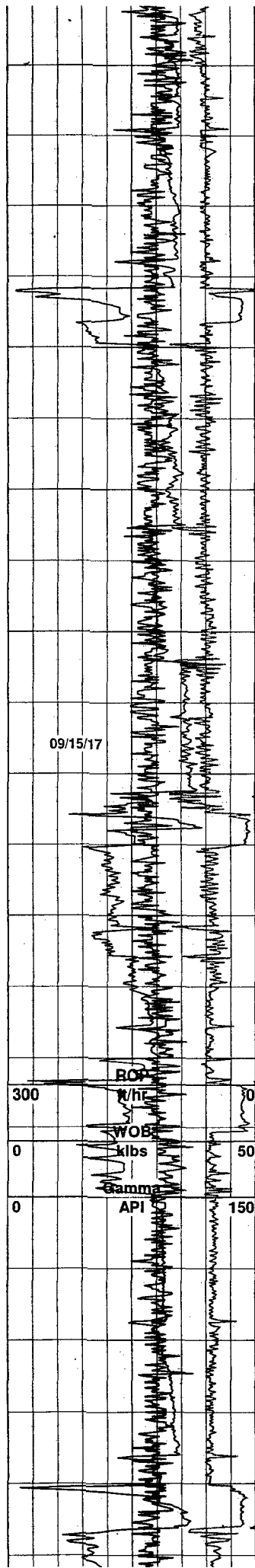
11100
11200
11300
11400
11500
11600
11700
11800
11900
12000
12100



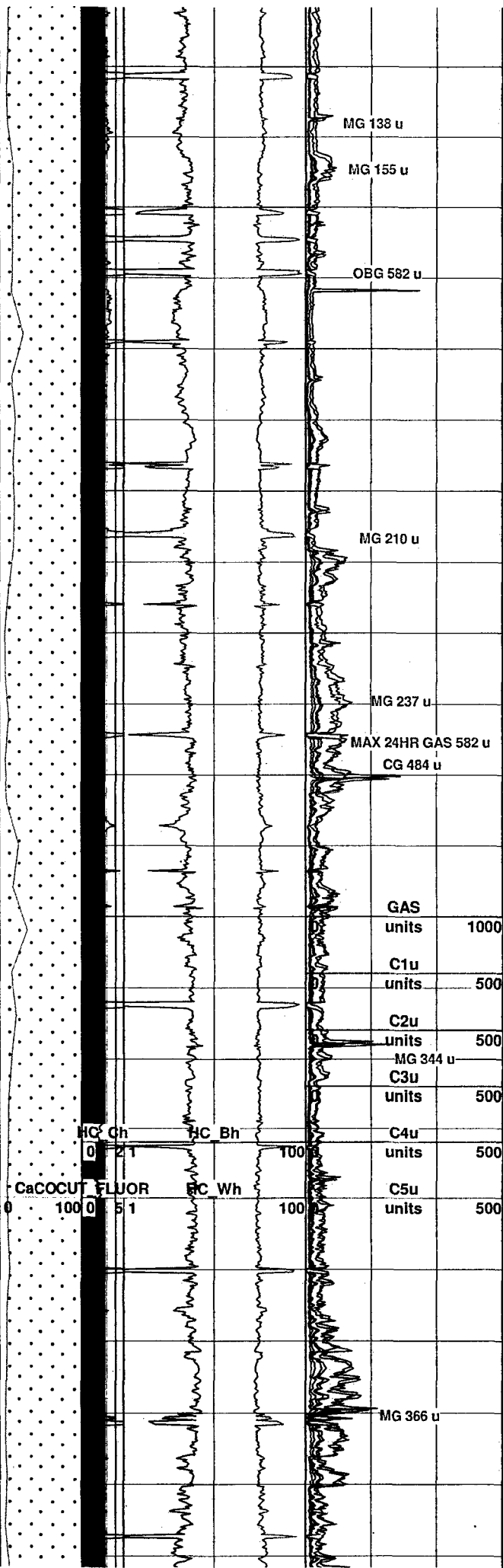
MG 245 u
CG 212 u
MG 148 u
MAX 24HR GAS 447 u
TRAP TEST
GAS units
C1u units
C2u units
C3u units
C4u units
C5u units
MG 208 u
MG 147 u

INC: 92.50°
AZI: 89.90°
TVD: 9,175.82'
VS: 1,983.71'
MW 9.3
VIS 33
PV 5
YP 3
GEL 13/8/6
FI
CAKE
SOL 6.71
CHL 68,210
MD: 11,245'
INC: 89.80°
AZI: 90.90°
TVD: 9,173.63'
VS: 2,169.67'
MWI 9.3+
MWO 9.3+
RPM 50+MM
SPM 143
SP 2860
GPM 601
MD: 11,432'
INC: 89.20°
AZI: 90.90°
TVD: 9,177.22'
VS: 2,356.61'
MWI 9.3+
MWO 9.3+
RPM 50+MM
SPM 143
SP 2840
GPM 601
MD: 11,619'
INC: 88.80°
AZI: 91.30°
TVD: 9,180.42'
VS: 2,543.52'
MWI 9.3+
MWO 9.3+
RPM 50+MM
SPM 143
SP 2450
GPM 601
MD: 11,806'
INC: 88.60°
AZI: 90.20°
TVD: 9,185.05'
VS: 2,730.42'
MWI 9.4
MWO 9.4
RPM 50+MM
SPM 143
SP 2913
GPM 599
MD: 11,993'
INC: 90.40°
AZI: 90.40°
TVD: 9,186.69'
VS: 2,917.40'
MW 9.4
VIS 34
PV 5
YP 4
GEL 14/9/6
FI 44
CAKE 1
SOL 7.5
CHI 63,500

BLKY-SB BLKY,
CONS, FRI-SL FRI,
CALC CMT, CARB,
CUT: BRI BL-WH, FST
DIFSE, YEL RESDL
RING
SD: GY-LT GY-WH,
VVF-F GR, WL SRT,
SBRD-RD, CONS-SL
FRI, CALC- DOL CMT,
SL ARG IP
CUT: WK-DL, CLR,
BL-WH, MOD-FST,
HALO
SD: GY-LT GY, VVF-F
GR, WL SRT, SBRD-RD,
CONS-SL FRI, CALC-
DOL CMT, SL ARG IP
CUT: WK-DL, CLR,
BL-WH, FST, HALO
SD: CLR- LT GY- OFF
WH, SLT- VF GR- F GR,
VW SRT, ANG- SB
ANG- SB RD, CONS,
FRI- SL FR, CALC CMT
CUT: DL BL, CLR, SLW
BLMG, W/ DL YEL
RESDL RING
SD: CLR- LT GY- OFF
WH, SLT- VF GR- F GR,
VW SRT, ANG- SB
ANG- SB RD, CONS,
FRI- SL FR, CALC CMT,
TR SILT, CUT: DL BL,
CLR, SLW BLMG, W/
DL YEL RESDL RING
SD: CLR- LT GY- OFF
WH, SLT- VF GR- F GR,
VW SRT, ANG- SB
ANG- SB RD, CONS,
FRI- SL FR, CALC CMT,
TR SILT, CUT: DL BL,
CLR, SLW BLMG, W/
DL YEL RESDL RING
SD: GY-LT GY-WH,
VVF-F GR, WL SRT,
SBRD-RD, CONS-SL
FRI, CALC- DOL CMT,
SL ARG IP
CUT: WK-DL, CLR,
BL-WH, MOD, HALO
YEL RESDL RING
SD: GY-LT GY-WH,
VVF-F GR, WL SRT,
SBRD-RD, CONS-SL
FRI, CALC- DOL CMT,
SL ARG IP
CUT: WK-DL, CLR,
BL-WH, MOD, HALO
YEL RESDL RING
SD: GY-LT GY-WH,
VVF-F GR, WL SRT,
SBRD-RD, CONS-SL
FRI, CALC- DOL CMT,
SL ARG IP
CUT: WK-DL, CLR,



12200
12300
12400
12500
12600
12700
12800
12900
13000
13100
13200
13300
KS



MD: 12,180'
INC: 88.80°
AZI: 90.30°
TVD: 9,188.15'
VS: 3,104.39'

MWI 9.4
MWO 9.4

RPM 50+MM
SPM 142
SP 2905
GPM 672

MD: 12,367'
INC: 88.80°
AZI: 89.60°
TVD: 9,191.06'
VS: 3,291.36'

MWI 9.4
MWO 9.4

RPM 50+MM
SPM 142
SP 2960
GPM 672

MD: 12,554'
INC: 89.50°
AZI: 88.70°
TVD: 9,194.92'
VS: 3,478.27'

MWI 9.4
MWO 9.4

RPM 50+MM
SPM 142
SP 2680
GPM 672

MD: 12,741'
INC: 89.80°
AZI: 89.60°
TVD: 9,195.33'
VS: 3,665.34'

MWI 9.4
MWO 9.4

RPM 50+MM
SPM 142
SP 2973
GPM 598

MD: 12,928'
INC: 89.20°
AZI: 89.80°
TVD: 9,195.82'
VS: 3,852.23'

MW 9.4
VIS 34
PV 5
YP 4
GEL 14/9/6
FI 58
CAKE 1
SOL 7.5
CHL 57,190

MD: 13,116'
INC: 89.0°
AZI: 89.50°
TVD: 9,200.09'
VS: 4,040.16'

MWI 9.4
MWO 9.4

RPM 50+MM
SPM 142
SP 3050

BL-WH,MOD, HALO
YEL RESDL RING

SD: GY-LT GY-WH,
VVF-F GR, WL SRT,
SBRD-RD, CONS-SL
FRI,CALC- DOL CMT,
SL ARG IP
CUT:WK-DL,CLR,
BL-WH,MOD, HALO
YEL RESDL RING

SD: GY-LT GY-WH,
VVF-F GR, WL SRT,
SBRD-RD, CONS-SL
FRI,CALC- DOL CMT,
SL ARG IP
CUT:WK-DL,CLR,
BL-WH,MOD, HALO
YEL RESDL RING

SD: GY-LT GY-WH,
VVF-F GR, WL SRT,
SBRD-RD, CONS-SL
FRI,CALC- DOL CMT,
SL ARG IP
CUT:WK-DL,CLR,
BL-WH,MOD, HALO
YEL RESDL RING

SD: GY-LT GY-WH,
VVF-F GR, WL SRT,
SBRD-RD, CONS-SL
FRI,CALC- DOL CMT,
SL ARG IP
CUT:WK-DL,CLR,
BL-WH,MOD, HALO
YEL RESDL RING

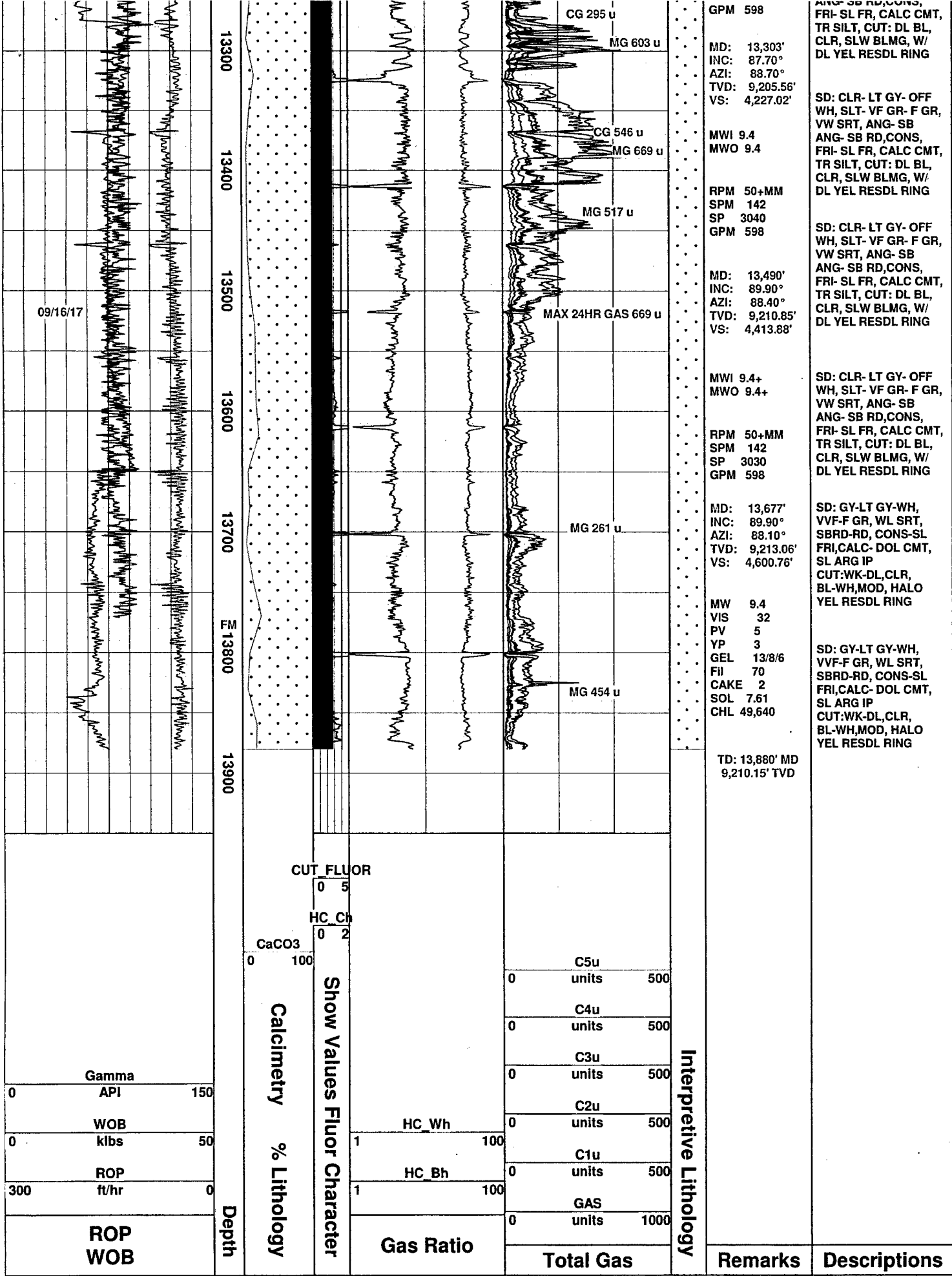
SD: GY-LT GY-WH,
VVF-F GR, WL SRT,
SBRD-RD, CONS-SL
FRI,CALC- DOL CMT,
SL ARG IP
CUT:WK-DL,CLR,
BL-WH,MOD, HALO
YEL RESDL RING

SD: GY-LT GY-WH,
VVF-F GR, WL SRT,
SBRD-RD, CONS-SL
FRI,CALC- DOL CMT,
SL ARG IP
CUT:WK-DL,CLR,
BL-WH,MOD, HALO
YEL RESDL RING

SD: GY-LT GY-WH,
VVF-F GR, WL SRT,
SBRD-RD, CONS-SL
FRI,CALC- DOL CMT,
SL ARG IP
CUT:WK-DL,CLR,
BL-WH,MOD, HALO
YEL RESDL RING

SD: GY-LT GY-WH,
VVF-F GR, WL SRT,
SBRD-RD, CONS-SL
FRI,CALC- DOL CMT,
SL ARG IP
CUT:WK-DL,CLR,
BL-WH,MOD, HALO
YEL RESDL RING

SD: CL- LT GY- OFF
WH, SLT- VF GR- F GR,
VW SRT, ANG- SB
ANG- SBRD CONS



Gamma	
API	150
WOB	
klbs	50
ROP	
ft/hr	0
ROP	
WOB	

CUT FLUOR	
0	5
HC Ch	
0	2
CaCO3	
0	100
Show Values Fluor Character	
HC Wh	
1	100
HC Bh	
1	100
Gas Ratio	
Total Gas	

GPM 598	
MD: 13,303'	
INC: 87.70°	
AZI: 88.70°	
TVD: 9,205.56'	
VS: 4,227.02'	
MWI 9.4	
MWO 9.4	
RPM 50+MM	
SPM 142	
SP 3040	
GPM 598	
MD: 13,490'	
INC: 89.90°	
AZI: 88.40°	
TVD: 9,210.85'	
VS: 4,413.88'	
MWI 9.4+	
MWO 9.4+	
RPM 50+MM	
SPM 142	
SP 3030	
GPM 598	
MD: 13,677'	
INC: 89.90°	
AZI: 88.10°	
TVD: 9,213.06'	
VS: 4,600.76'	
MW 9.4	
VIS 32	
PV 5	
YP 3	
GEL 13/8/6	
Fil 70	
CAKE 2	
SOL 7.61	
CHL 49,640	
TD: 13,880' MD	
9,210.15' TVD	
Remarks	Descriptions