

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

FORM APPROVED
Budget Bureau No. 1004-0135
Expires November 30 2000

5. Lease Serial No.

NM 29276

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

Sparkplug Ridge 17 1
Federal

9. API Well No.

30-015-32271

10. Field and Pool, or Exploratory Area
Red Lake (Glorietta-Yeso)

11. County or Parish, State

EDDY NM

12. CHECK 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 ☐ Fracture Treat ☐ Reclamation ☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair ☐ New Construction ☐ Recomplete ☒ Other <u>Completion</u>
	☐ 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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Horizontal Completion (Mud Logs Ran)

6/24 - RR @ 9:30 hrs - open hole logs run - set 5 1/2 casing and cmt w/770 sks, NU

6/29 - ITH w/PPI tools. AZ 3199, 3194, 3181 w/1000 gals 15% HCL, AZ 3143, 3140, 3123 w/1000 gals 15% HCL
AZ 3022, 3017, 3014, w/1000 gals 15% HCL. Frac well w/146,100# Sand

7/12 - TOPS

10/28 - RR @ 19:00 hours

11/8 - Frac lateral with 80,000 gal acid @ 42 BPM @ 3300 psi, ISIP 830 psi

11/22 - Frac string and 2-7/8" perfed liner

Perfs - 3199, 3194, 3181, 3143, 3140, 3022, 3017, 3014 - total perfs: 30

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

SANDRA J. MOORE

Title

REGULATORY COMPLIANCE ASSISTANT

Date

12/31/02

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

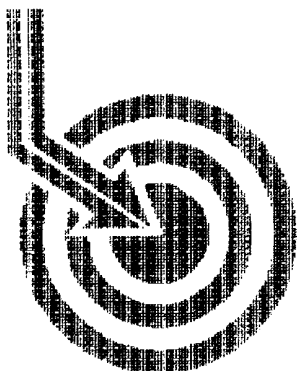
Title

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

Title 18 U.S.C. Section 1001, makes 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.



Scientific Drilling



BP AMERICA PRODUCTION COMPANY

Field: Red Lake (Glorietta-Yeso)
Site: Eddy County, NM
Well: Spark Plug Ridge Fed. #1
Wellpath: VH - Job #32K1002373
Survey: 10/19/02

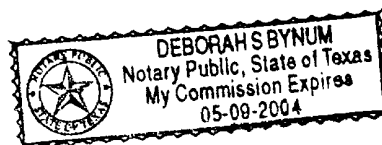
This survey is correct to the best of my knowledge
and is supported by actual field data.

Scott Moody.....Company Representative

Notorized this date 22nd of October, 2002.

Deborah Sue Bynum

Notary Signature
County of Midland
State of Texas



Scientific Drilling International

Survey Report

Company: BP AMERICA PRODUCTION COMPANY Field: Red Lake (Glonetta-Yeso) Site: Eddy County, NM Well: Spark Plug Ridge Fed. #1 Wellpath: VH - Job #32K1002373	Date: 10/22/2002 Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level Section (VS) Reference: Well (0.0E,0.0N,30.7Azi) Survey Calculation Method: Minimum Curvature	Time: 10:55:33 Page: 1
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Survey: 10/19/02 KSRG 0'-3140'	Start Date: 10/22/2002
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Company: Scientific Drilling International Tool: Keeper	Engineer: Jeff Cossey
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Survey

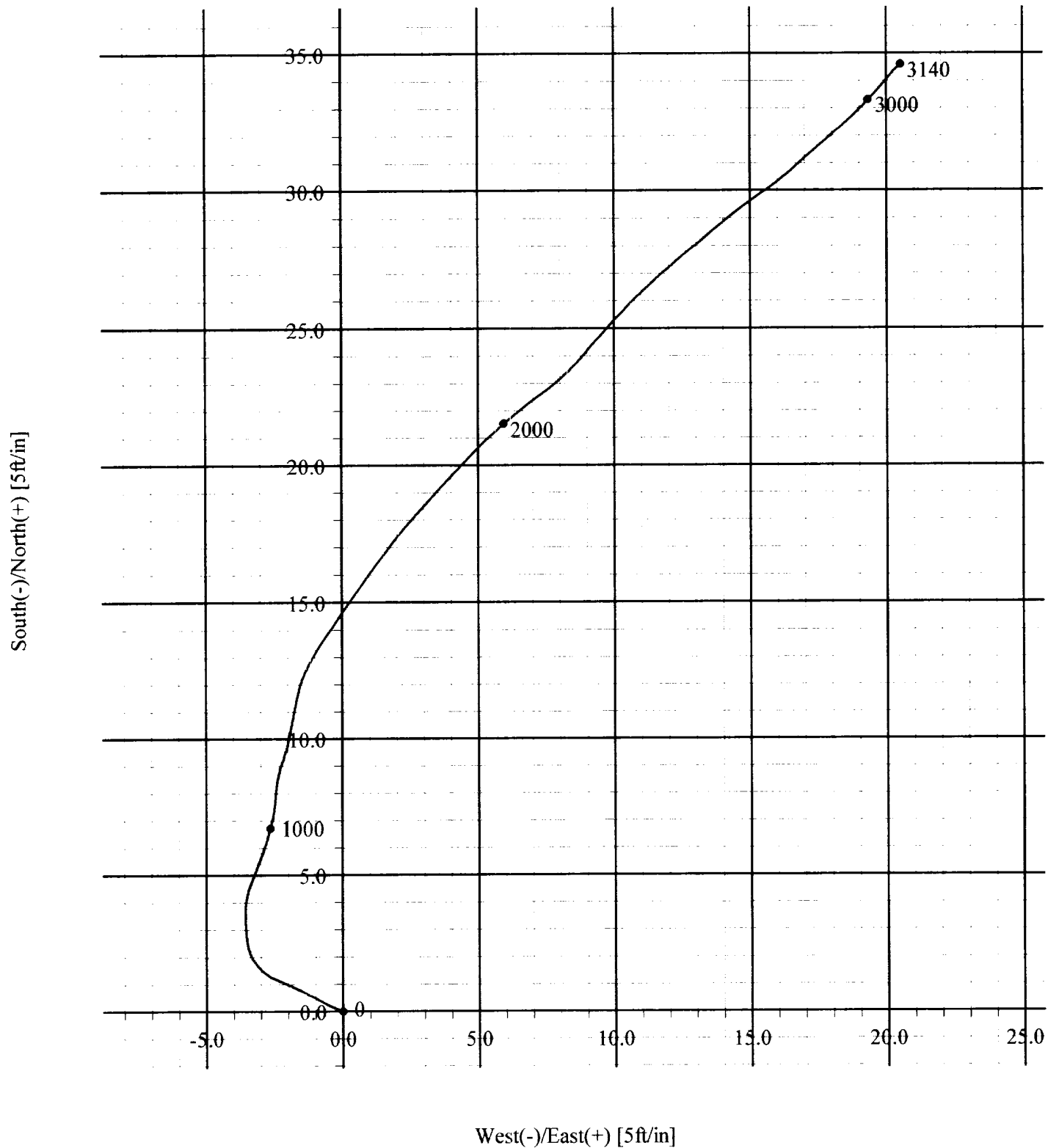
MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg	DLS deg/100ft
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0.00
100.0	0.45	295.08	100.0	0.2	0.2	-0.4	0.4	295.08	0.45
200.0	0.51	298.33	200.0	0.5	0.5	-1.1	1.2	296.26	0.07
300.0	0.39	295.01	300.0	0.9	0.9	-1.8	2.0	296.50	0.12
400.0	0.44	293.77	400.0	1.2	1.2	-2.5	2.7	295.93	0.05
500.0	0.52	318.31	500.0	1.7	1.7	-3.1	3.5	298.49	0.22
600.0	0.59	351.61	600.0	2.5	2.5	-3.5	4.3	306.02	0.33
700.0	0.67	0.38	700.0	3.6	3.6	-3.6	5.1	315.55	0.13
800.0	0.59	22.68	800.0	4.7	4.7	-3.4	5.8	324.38	0.26
900.0	0.60	20.30	900.0	5.7	5.7	-3.0	6.4	332.22	0.03
1000.0	0.68	15.28	1000.0	6.7	6.7	-2.6	7.2	338.53	0.10
1100.0	0.76	4.15	1100.0	8.0	8.0	-2.4	8.3	342.96	0.16
1200.0	0.61	20.07	1199.9	9.1	9.1	-2.2	9.4	346.38	0.24
1300.0	0.70	11.50	1299.9	10.2	10.2	-1.9	10.4	349.44	0.13
1400.0	0.85	10.38	1399.9	11.5	11.5	-1.6	11.7	351.87	0.15
1500.0	0.90	30.97	1499.9	12.9	12.9	-1.1	13.0	355.10	0.32
1600.0	1.33	34.92	1599.9	14.6	14.6	0.0	14.6	359.83	0.44
1700.0	1.38	36.37	1699.9	16.5	16.5	1.3	16.5	4.63	0.06
1800.0	1.43	42.06	1799.8	18.4	18.4	2.9	18.6	8.92	0.15
1900.0	1.24	43.45	1899.8	20.1	20.1	4.5	20.6	12.52	0.19
2000.0	1.10	49.34	1999.8	21.5	21.5	5.9	22.3	15.43	0.18
2100.0	1.10	53.83	2099.8	22.7	22.7	7.4	23.9	18.15	0.09
2200.0	1.03	40.46	2199.8	24.0	24.0	8.8	25.5	20.17	0.26
2300.0	1.05	42.92	2299.7	25.3	25.3	10.0	27.2	21.57	0.05
2400.0	1.09	47.45	2399.7	26.6	26.6	11.3	28.9	23.05	0.09
2500.0	1.03	51.40	2499.7	27.8	27.8	12.7	30.6	24.59	0.09
2600.0	0.92	50.64	2599.7	28.9	28.9	14.1	32.1	25.94	0.11
2700.0	1.03	55.92	2699.7	29.9	29.9	15.4	33.7	27.28	0.14
2800.0	1.00	47.17	2799.7	31.0	31.0	16.8	35.3	28.46	0.16
2900.0	0.99	50.35	2899.6	32.2	32.2	18.1	36.9	29.39	0.06
3000.0	0.92	42.94	2999.6	33.3	33.3	19.3	38.5	30.13	0.14
3100.0	0.60	39.40	3099.6	34.3	34.3	20.2	39.8	30.51	0.32
3140.0	0.69	50.89	3139.6	34.6	34.6	20.5	40.2	30.68	0.39



**Scientific
Drilling**

Field: Red Lake (Glorietta-Yes^)
Site: Eddy County, NM
Well: Spark Plug Ridge Fed. #1
Wellpath: VH - Job #32K1002373
Survey: 10/19/02

G/T/M All Angles Relative
To Grid North
Grid North: 0.00
True North: 0.00
Magnetic North: 0.00



SUTTLES LOGGING, INC.



HYDROCARBON WELL LOGGING GEOLOGICAL CONSULTING

P.O. BOX 10725, Midland, TX 79702

(915)687-3148

CO - Circulate Out
CON - Connection Made
DC - Depth Correction
DDC - Drills Depth Correc.
DS - Directional Survey
DST - Drill Stem Test

LC - Lost Circulation
NB - New Bit
NR - No Returns
PG - Plugged Back
TD - Total Depth
TG - Trip Gas

WOB - Weight On Bit
WT - Weight

NO SAMPLE -
DOLOMITE -

Producer: BP AMERICAN PRODUCTION

Wellname: SPARKPLUG RIDGE 17 FEDERAL #1

Location: T18SR27E SEC17,2310'FNL & 1650'FEL

Survey:

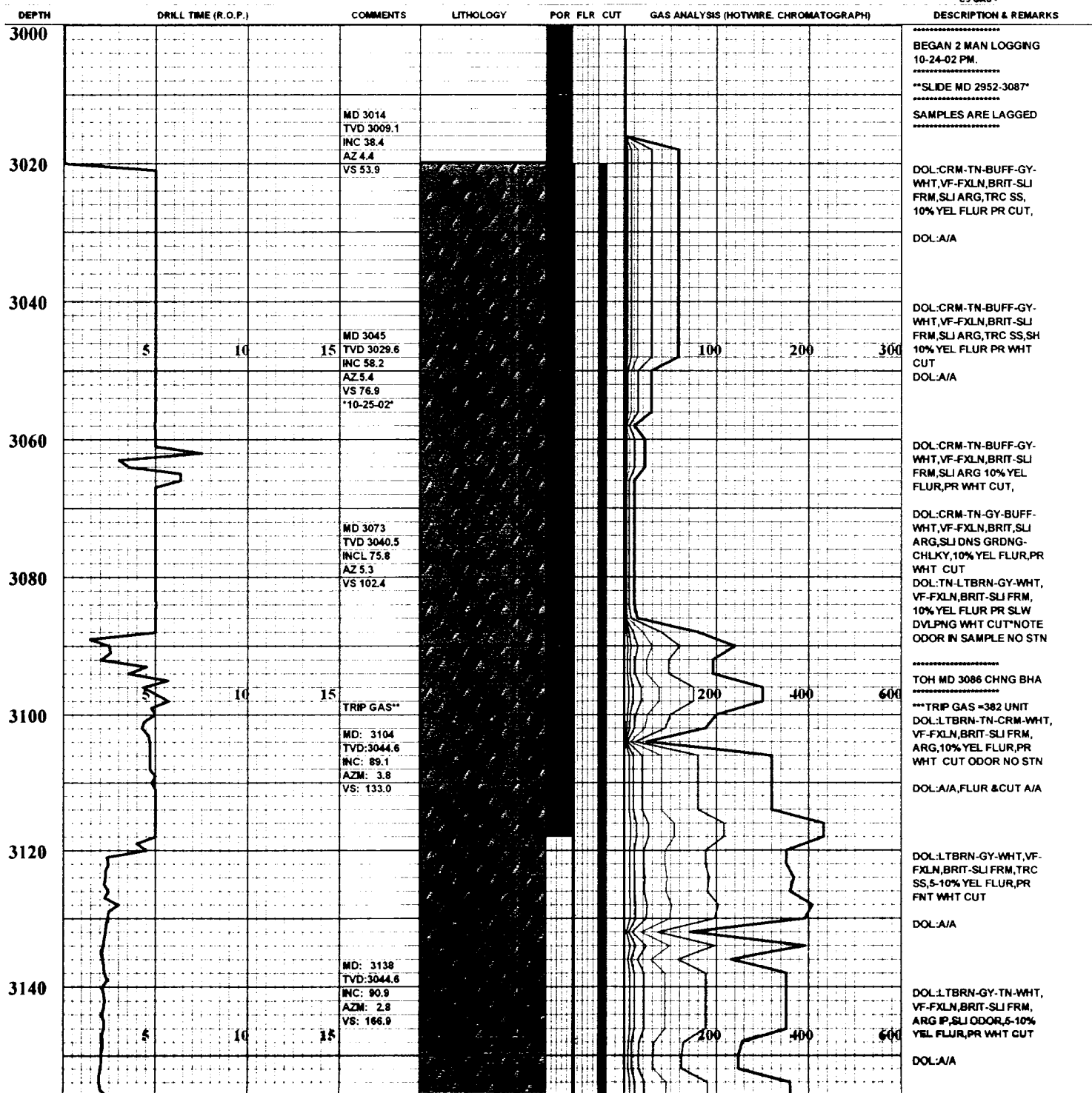
County, St: EDDY COUNTY, NM

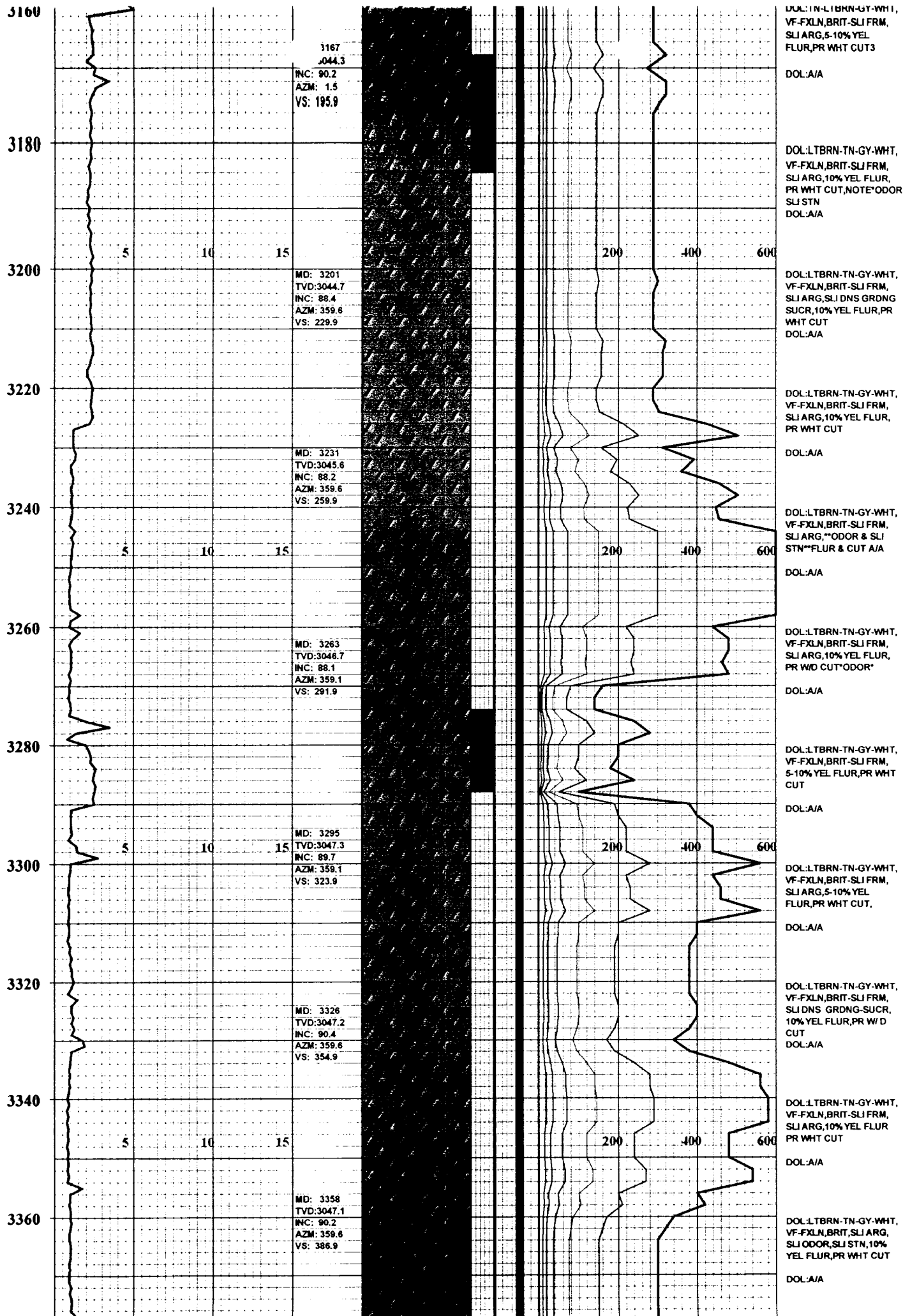
Geologists: S. ALEMAN AND MICHEAL A. LYLES

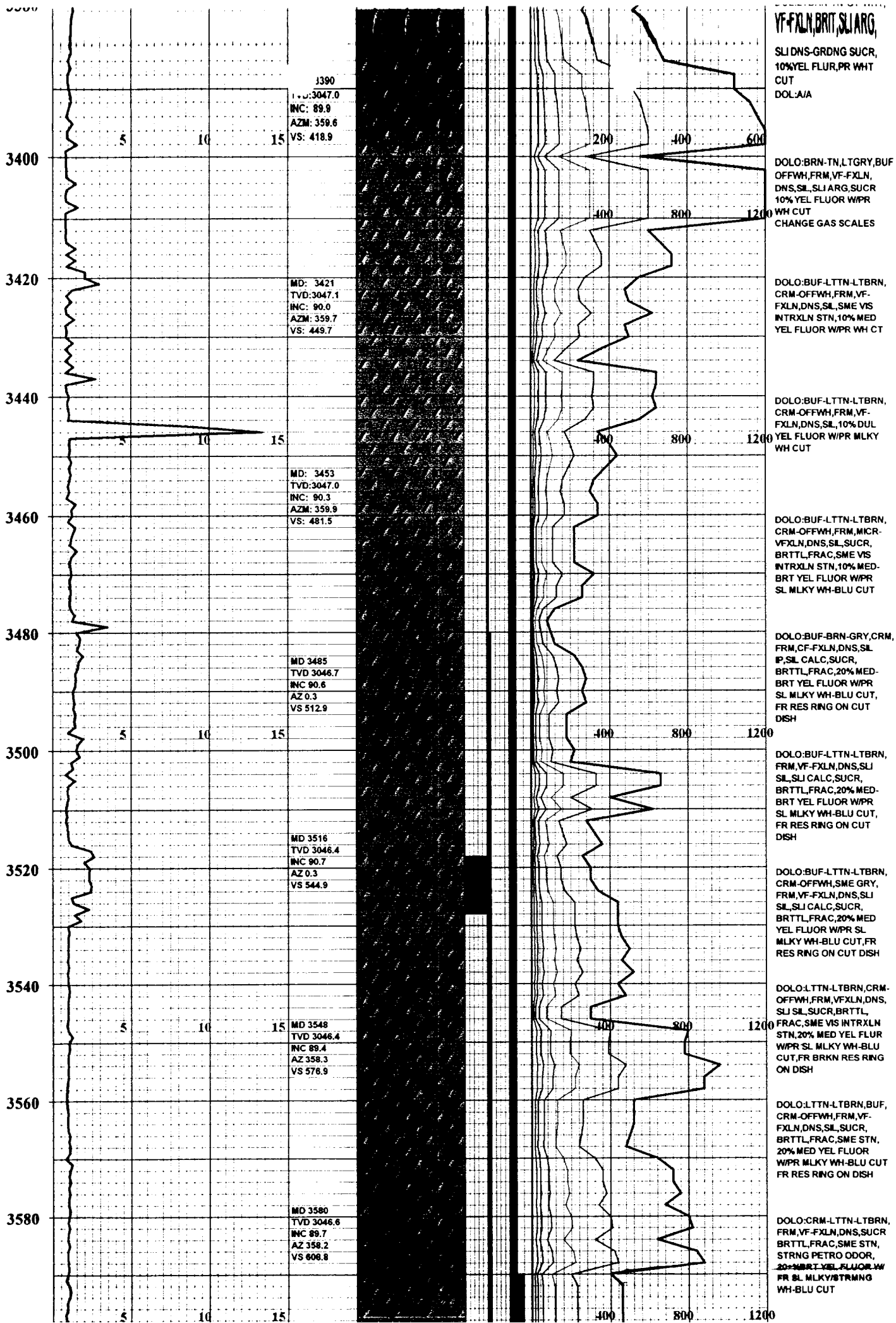
Elevation: (GL)- 0 (KB)- 0

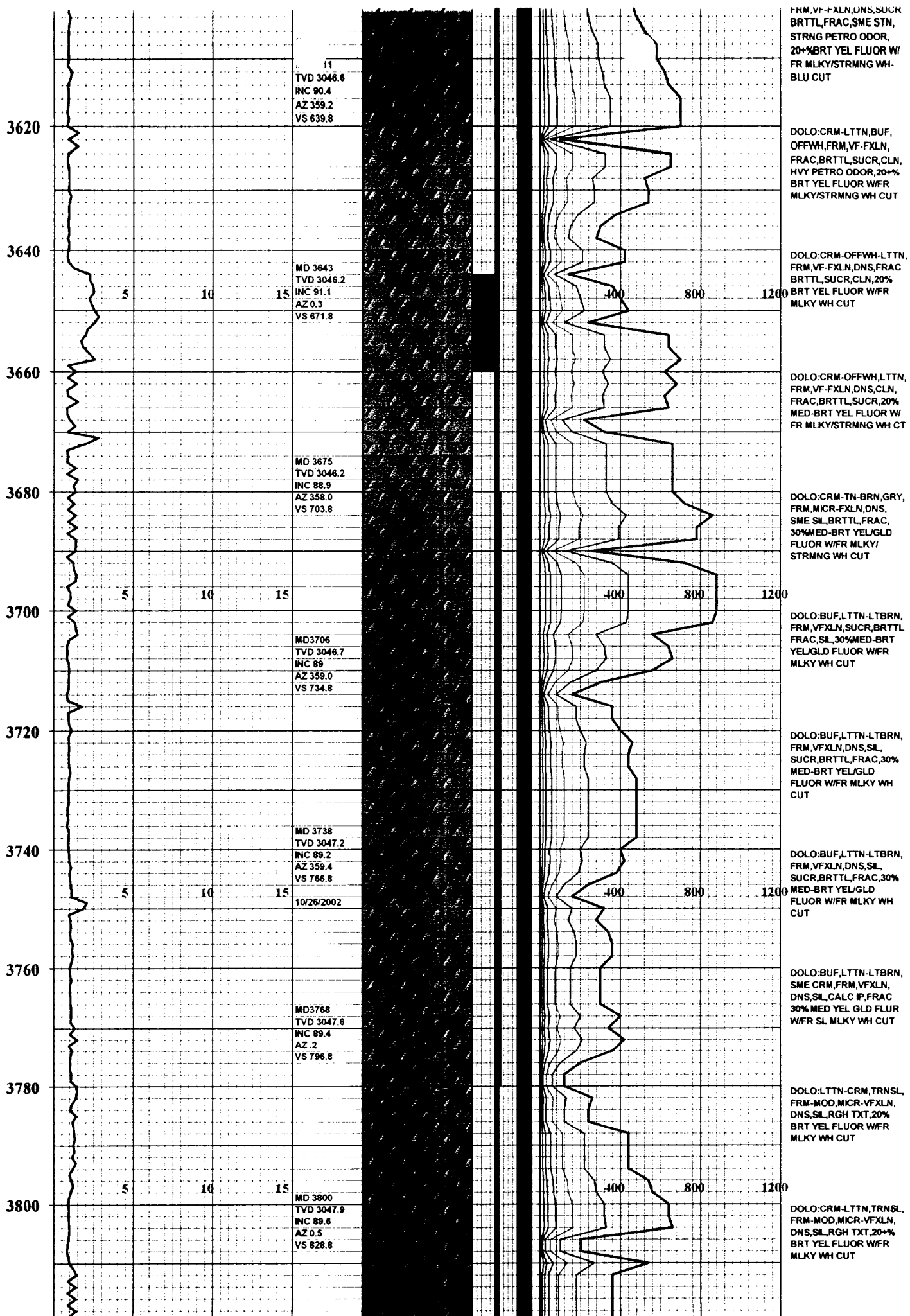
Depths: (START)- 3000 (TD)- 4915, Dates: 10/24/1980 TO 10/28/2002

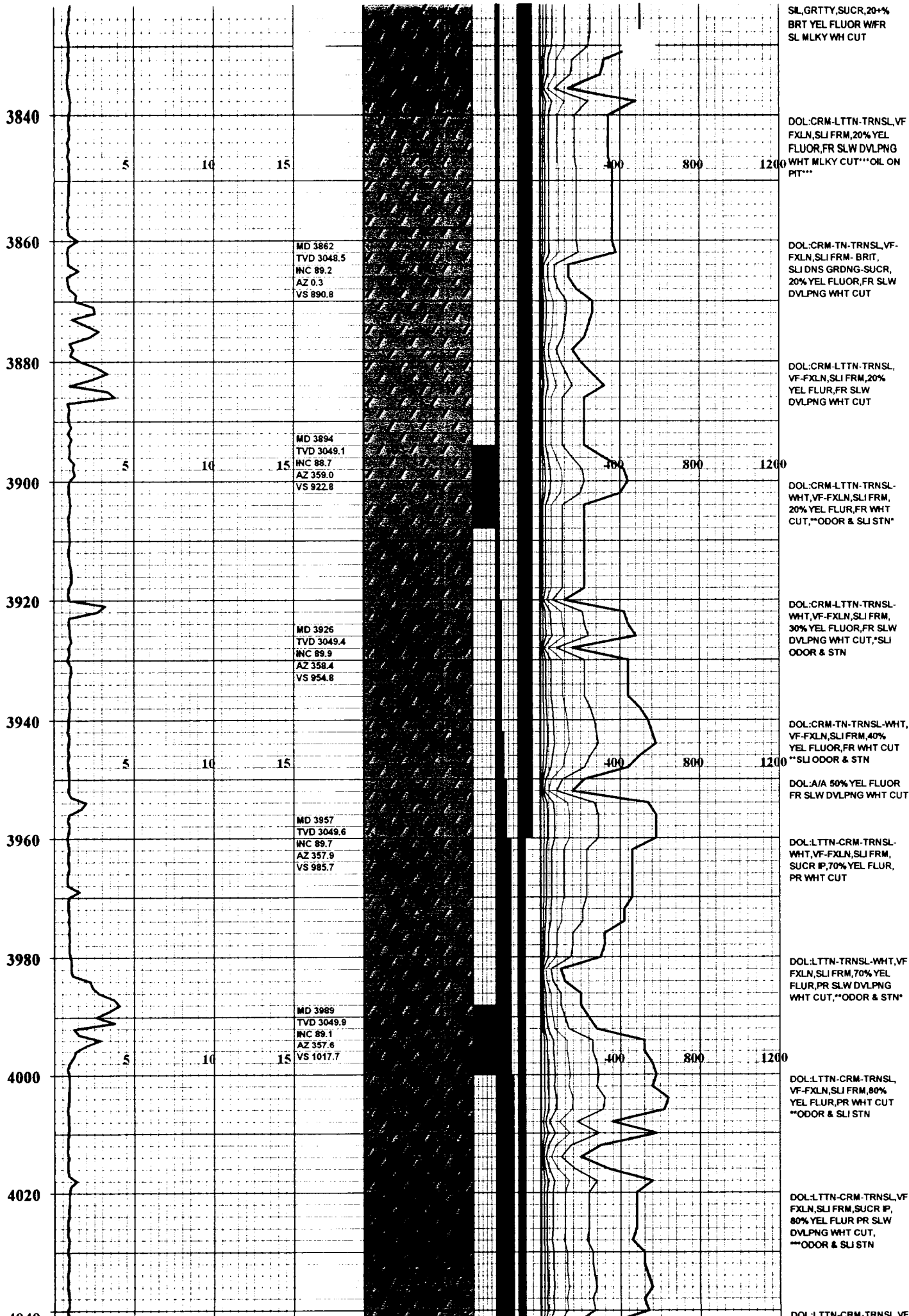
Total GAS - _____
C1 GAS - _____
C2 GAS - _____
C3 GAS - _____
C4 GAS - _____
C5 GAS - _____











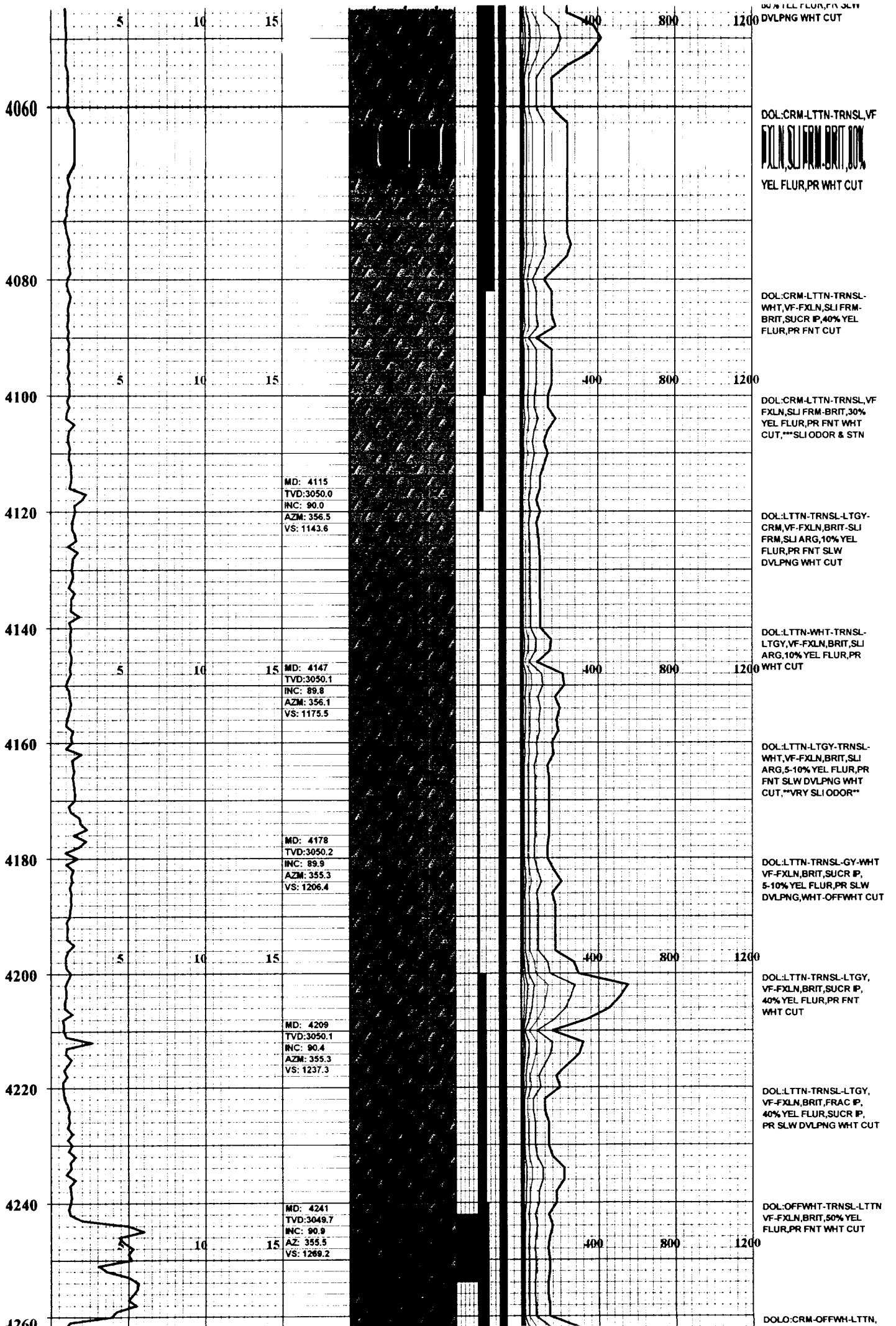
MD 3862
TVD 3048.5
INC 89.2
AZ 0.3
VS 890.8

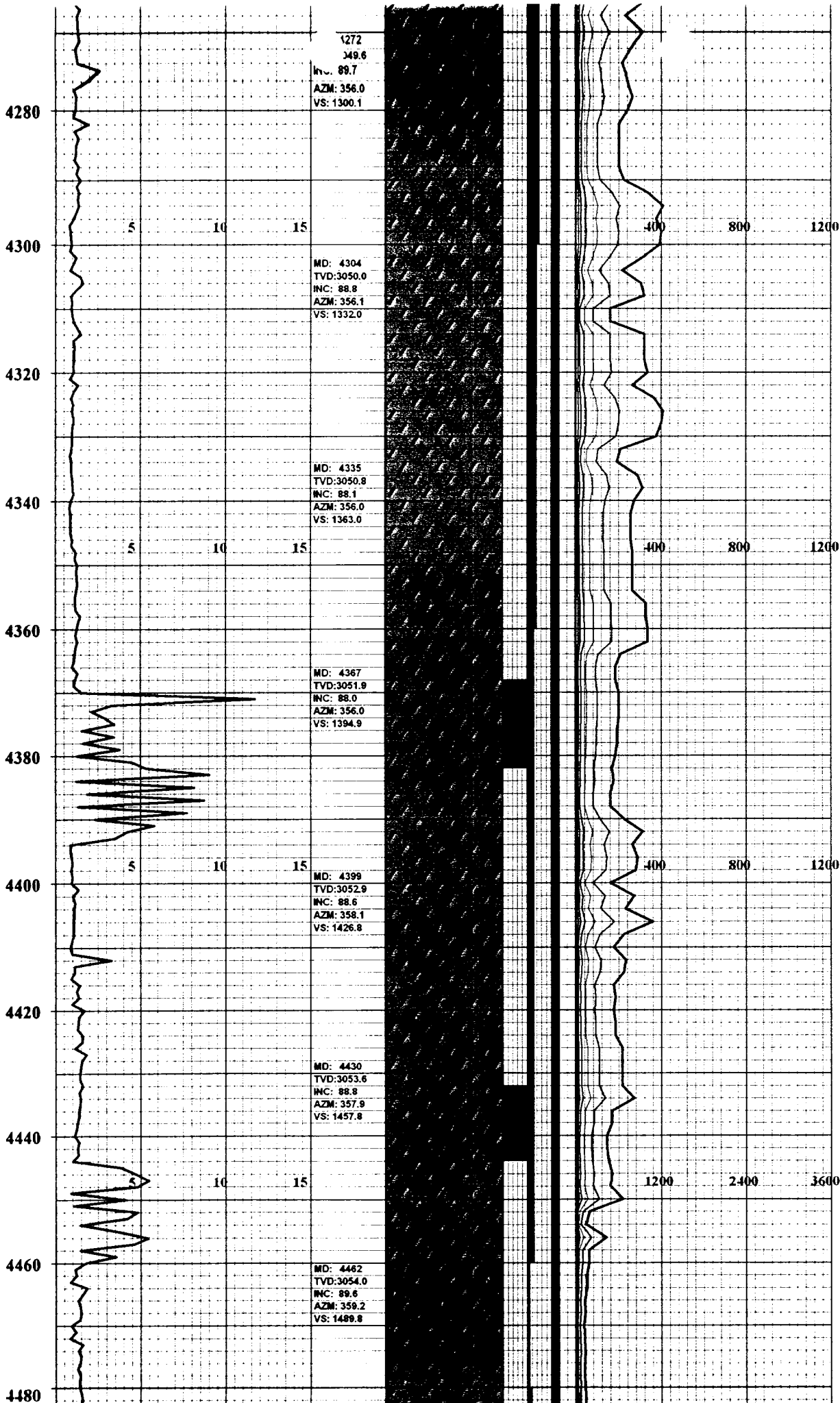
MD 3894
TVD 3049.1
INC 88.7
AZ 359.0
VS 922.8

MD 3926
TVD 3049.4
INC 89.9
AZ 358.4
VS 954.8

MD 3957
TVD 3049.6
INC 89.7
AZ 357.9
VS 985.7

MD 3989
TVD 3049.9
INC 89.1
AZ 357.6
VS 1017.7





YEL FLUOR W/PR FNT
MLKY WH CUT

DOLO:CRM-OFFWH-LTTN,
FRM,VFLXN,DNS,SL,
BRTTL,FRAC IP,50%
YEL FLUOR W/PR FNT
MLKY WH CUT

DOLO:CRM-OFFWH-LTTN,
FRM,VFLXN,DNS,SL,
BRTTL,FRAC,40% YEL
FLUOR W/PR FNT MLKY
WH CUT

DOLO:CRM-OFFWH-LTTN,
LTBRN,FRM,VFLXN,DNS,
SL,BRTTL,FRAC,40%
YEL FLUOR W/PR FNT
MLKY WH CUT

DOLO:CRM-OFFWH-LTTN,
LTBRN,FRM,VFLXN,DNS,
SL,BRTTL,FRAC,40%
YEL FLUOR W/PR FNT
MLKY WH CUT

DOLO:CRM-LTBRN-TN,FRM
VF-FXLN,DNS,SL IP,
BRTTL,FRAC,SME POR
30%YEL FLUOR W/PR
SL MLKY WH CUT

DOLO:LTTN-LTBRN,CRM,
FRM,VF-FXLN,DNS,SL
IP,BRTTL,FRAC,30%
YEL FLUOR W/PR SL
MLKY WH CUT

DOLO:CRM-LTTN-LTBRN,
FRM,VFLXN,DNS,SL,
BRTTL,FRAC,30% YEL
FLUOR W/PR SL MLKY
WH CUT

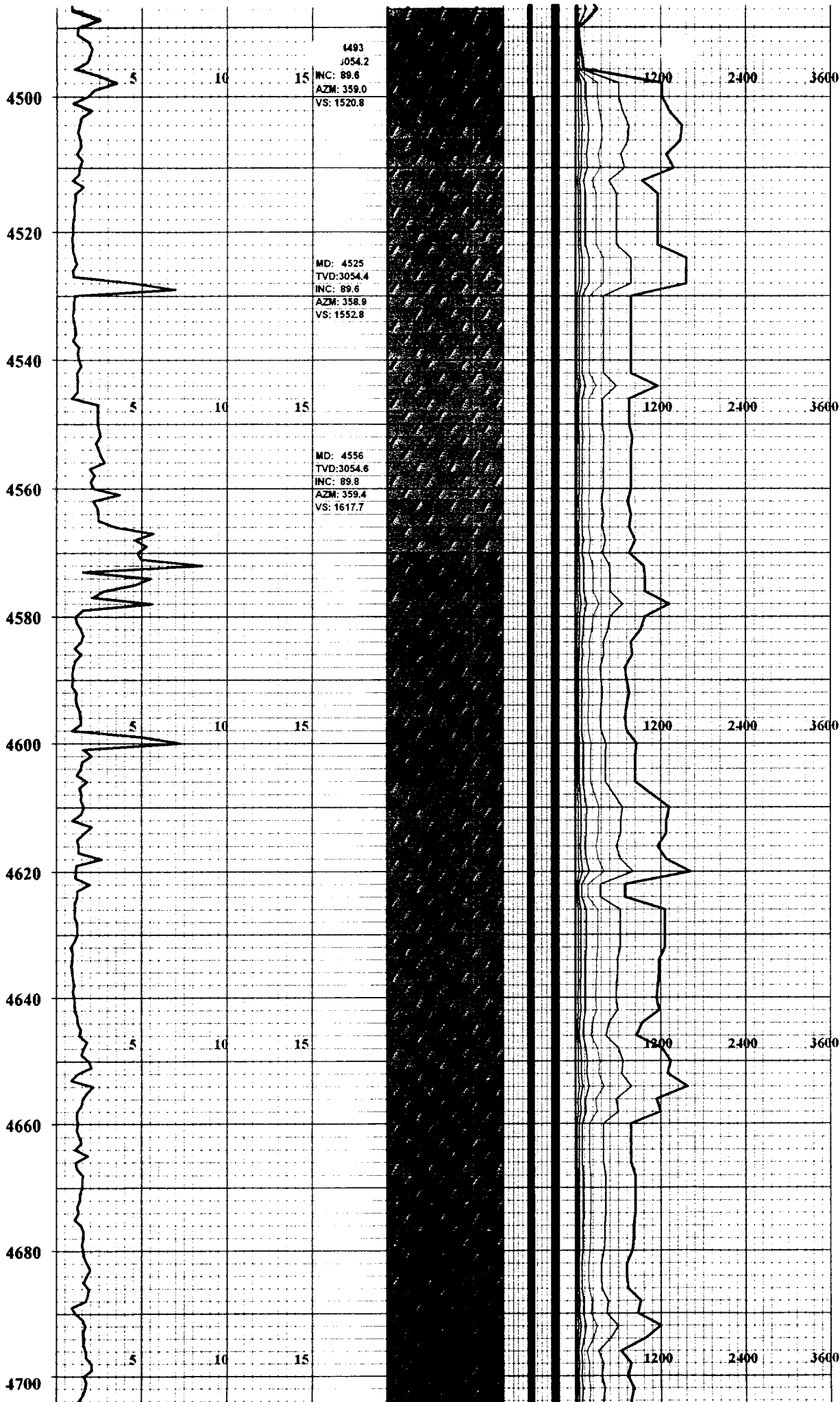
DOLO:CRM-LTTN-LTBRN,
OFFWH-WH,FRM,VFLXN,
DNS,SL,BRTTL,FRAC,
30% YEL FLUOR W/PR
SL FNT WH CUT

DOLO:CRM-OFFWH-LTTN,
LTBRN,FRM,VFLXN,DNS,
SL,BRTTL,FRAC,30%
YEL FLUOR W/PR SL
FNT WH CUT

DOL:TN-LTBRN-CRM-WHT,
VF-FXLN,BRT-SL,FRM,
10% YEL FLUR,PR WET,
FR-GD WHT MLKY DRY
CUT,

TOH MD 4480

DOL:TN-LTBRN-CRM-WHT,
VF-FXLN,BRT-SL,FRM,



DOL: LTTN-LTBRN-CRM,
VVF-VFXLN, BRIT, 30%
YEL FLUR, PR WET CUT,
PR-FR WHT DRY CUT

DOL: LTTN-LTBRN-CRM,
VVF-VFXLN, BRIT, SLJ
DNS, 30% YEL FLUR PR
WET, FR-GD SLW DVLPG
WHT MLKY DRY CUT

DOL: LTTN-LTBRN-CRM,
VVF-VFXLN, BRIT, SLJ
DNS, 30% YEL FLUR, PR WET,
FR-GD SLW DVLPG MLKY
WHT DRY CUT

DOLO: CRM-OFFWH-LTTN,
FRM, MICR-VFXLN, DNS,
BRTTL, FRAC, 30% YEL
FLUR W/PR SL MLKY
WH DRY CUT, V PR SL
MLKY WH WET CUT

DOLO: CRM-OFFWH-LTTN,
FRM, MICR-VFXLN, DNS,
BRTTL, FRAC, 30% YEL
FLUR W/PR SL MLKY
WH WET CUT

DOLO: CRM-OFFWH-LTTN,
FRM, MICR-VFXLN, DNS,
BRTTL, FRAC, 30% YEL
FLUR W/PR SL MLKY
WH WET CUT

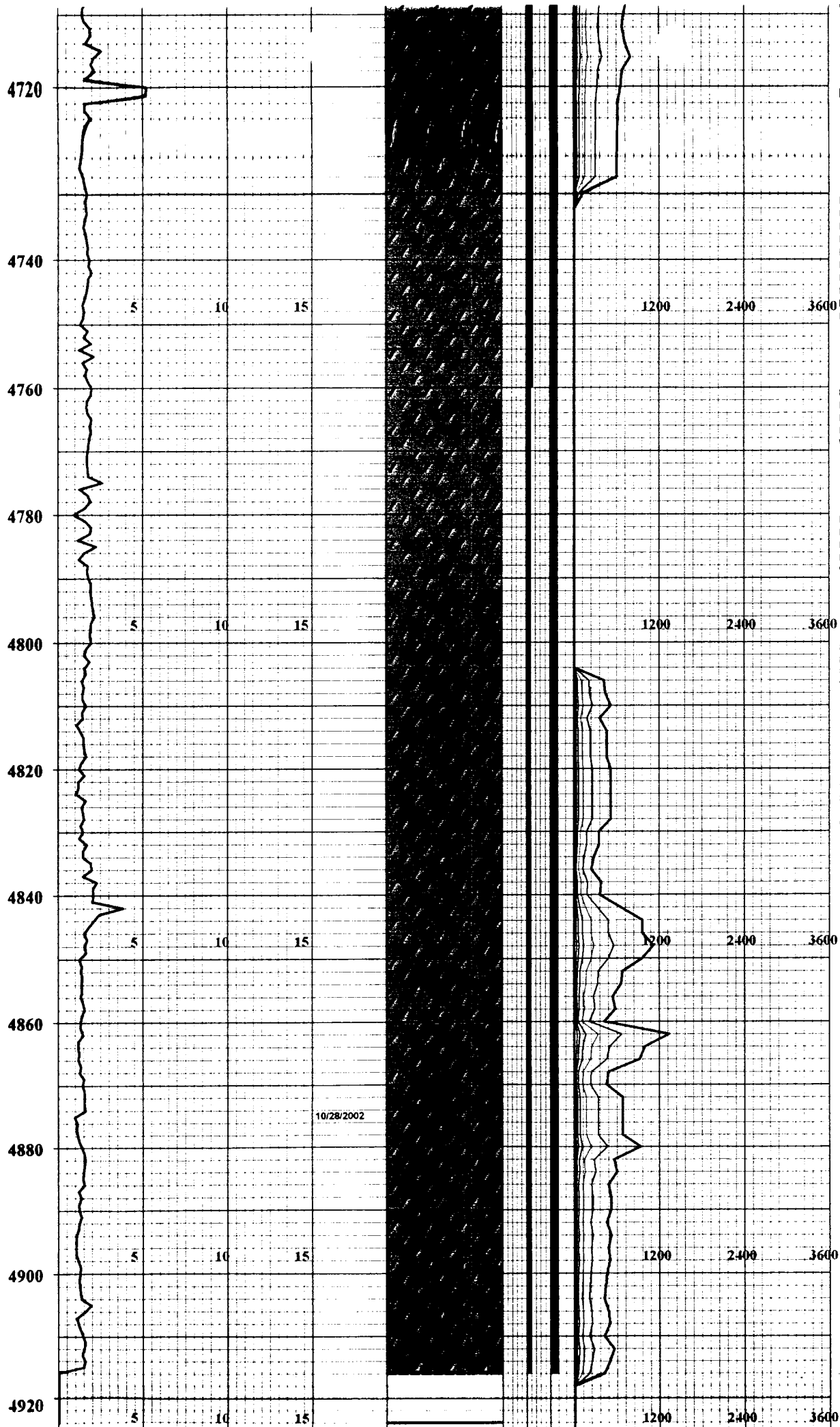
DOLO: CRM-OFFWH-LTTN,
FRM, MICR-VFXLN, DNS,
BRTTL, FRAC, 30% YEL
FLUR W/PR SL MLKY
WH WET CUT

DOLO: CRM-OFFWH-LTTN,
FRM, MICR-VFXLN, DNS,
BRTTL, FRAC IF 30%
YEL FLUR W/PR SL
MLKY WH WET CUT

DOLO: CRM-OFFWH-LTTN,
FRM, MICR-VFXLN, DNS,
BRTTL, FRAC, 30% YEL
FLUR W/PR SL MLKY
WH WET CUT

DOLO: CRM-LTTN-OFFWH,
FRM, MICR-VFXLN, DNS,
BRTTL, FRAC, 30% YEL
FLUR W/PR SL MLKY
WH WET CUT

DOLO: CRM-OFFWH-LTTN,
FRM, MICR-VFXLN, DNS,
BRTTL, FRAC, 30% YEL
FLUR W/PR SL MLKY
WH WET CUT



WEL CUT

RE-CAL GAS EQUIP

FIRST OF THREE POWER
FAILURES REPLACE
FILAMENT IN HOTWIRE
PANEL NO GAS READINGS
FROM 4730'-4800'
DUE TO NO POWER TO
EQUIPMENT UNTIL LIGHT
PLANT REPAID/SERV.
INFORMED CO-MAN OF
MINOR PROBLEM.

DOLO:CRM-OFFWH-LTTN,
FRM,MICR-VFXLN,DNS,
BRTTL,FRAC,20%YEL
FLUOR W/PR MLKY WH
WET CUT

DOLO:CRM-OFFWH-LTTN,
FRM,MICR-VFXLN,DNS,
BRTTL,FRAC,20%YEL
FLUOR W/PR MLKY WH
WET CUT

DOLO:CRM-OFFWH-LTTN,
FRM,MICR-VFXLN,DNS,
BRTTL,FRAC,20%YEL
FLUOR W/PR FNT
MLKY WH WET CUT

DOLO:CRM-OFFWH-LTTN,
BRN,FRM,MICR-VFXLN,
DNS,SL,BRTTL,FRAC,
20%YEL FLUOR W/PR
FNT MLKY WH WET CUT

DOLO:CRM-OFFWH-LTTN,
BRN,FRM,MICR-VFXLN,
DNS,SL,BRTTL,FRAC,
20%YEL FLUOR W/PR
FNT MLKY WH WET CUT

DOLO:CRM-OFFWH-LTTN,
BRN,FRM,MICR-VFXLN,
DNS,SL,BRTTL,FRAC,
20%YEL FLUOR W/PR
FNT MLKY WH WET CUT

DOLO:CRM-OFFWH-LTTN,
BRN,FRM,MICR-VFXLN,
DNS,BRTTL,FRAC,20%
YEL FLUOR W/PR
MLKY WH WET CUT

DOLO:A/A W/20%YEL
FLUOR W/PR MLKY WH
WET CUT

TD @4915 ON 10/28/02
RELEASED BY GEO-CONEL
THANK YOU FOR USING
SUTTLES LOGGING.