

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34226
Name: Yale Oil Association, Inc.
Address 1: 6 NE 63rd Street, Suite 425
Address 2: _____
City: Oklahoma City State: OK Zip: 73105
Contact Person: Greg Cox
Phone: (405) 840-1811 ext. 107
CONTRACTOR: License # 34428
Name: Discovery Drilling
Wellsite Geologist: _____
Purchaser: _____

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil WSW SWD SIOW
 Gas D&A ENHR SIGW
 OG GSW Temp. Abd.
 CM (Coal Bed Methane)
 Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:
Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth: _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____
7/30/10 8/7/10 8/19/11
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 035-24365-00-00
Spot Description: _____
E/2 SE SW SE Sec. 18 Twp. 35 S. R. 7 East West
330 Feet from North / South Line of Section
1,500 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Cowley
Lease Name: Charles Well #: 1-18
Field Name: unnamed
Producing Formation: na
Elevation: Ground: 1210 Kelly Bushing: 1224
Total Depth: 3050 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 3050 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: _____
feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 683 ppm Fluid volume: 1500 bbls
Dewatering method used: tank truck hauling
Location of fluid disposal if hauled offsite: _____
Operator Name: Ford Tank Truck Services
Lease Name: Gray Mud Disposal License #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: Kay, Oklahoma Permit #: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

AFFIDAVIT
I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.
Signature: Greg Cox
Title: Geologist Date: 11-1-12

KCC Office Use ONLY
 Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: Dlg Date: 11/13/12

Operator Name: Yale Oil Association, Inc. Lease Name: Charles Well #: 1-18
 Sec. 18 Twp. 35 S. R. 7 East West County: Cowley

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Spectral Density-Neutron, Microlog, Compensated Resistivity	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Checkerboard</td> <td>2419</td> <td>-1195</td> </tr> <tr> <td>Big Lime</td> <td>2532</td> <td>-1308</td> </tr> <tr> <td>Peru</td> <td>2602</td> <td>-1378</td> </tr> <tr> <td>Oswego</td> <td>2658</td> <td>-1434</td> </tr> <tr> <td>Skinner</td> <td>2766</td> <td>-1542</td> </tr> <tr> <td>Miss Chat</td> <td>2958</td> <td>-1734</td> </tr> <tr> <td>Miss Lime</td> <td>2988</td> <td>-1764</td> </tr> </table>	Name	Top	Datum	Checkerboard	2419	-1195	Big Lime	2532	-1308	Peru	2602	-1378	Oswego	2658	-1434	Skinner	2766	-1542	Miss Chat	2958	-1734	Miss Lime	2988	-1764
Name	Top	Datum																							
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Miss Lime	2988	-1764																							

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	24	301	Class H	225	3% CC, 1/4# flo-cel
Production	7 7/8"	5 1/2"	17	3050	Regular	105	10% salt, .02% Fla, 1/4# flo-cel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
..... Perforate				
..... Protect Casing				
..... Plug Back TD				
..... Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	2959 - 2969	1000 gals. 15% HCL NE/FE acid	2959 - 2969
1	2969, 2966, 2965, 2965, 2965, 2965	jetted 1/2" holes 600' w/ 28% HCL acid	2965 - 2969
4	2766 - 2773	750 gals. 7 1/2% HCL NE/FE acid	2766 - 2773

TUBING RECORD:	Size: <u>2 3/8"</u>	Set At: <u>2996</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR. <u>5/16/11</u>	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
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Estimated Production Per 24 Hours	Oil Bbls. <u>1</u>	Gas Mcf <u>0</u>	Water Bbls. <u>50</u>	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

RECEIVED
 NOV 05 2012
 KCC WICHITA



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
820-431-9210 or 800-467-8676

235660

TICKET NUMBER 27828
LOCATION Gallesville OK
FOREMAN Donnie Tate

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8/1/10	9413	CHARLES 1-18	18	SSS	7E	Cherokee KS
CUSTOMER	MAILING ADDRESS		TRUCK #	DRIVER	TRUCK #	DRIVER
YALE OIL			419	JAMES N		
CITY	STATE	ZIP CODE	486	NATE		
			CASING SIZE & WEIGHT <u>8 5/8</u>			

JOB TYPE Surf HOLE SIZE 12 1/4 HOLE DEPTH _____ OTHER _____
 CASING DEPTH 301' DRILL PIPE _____ TUBING _____
 SLURRY WEIGHT 15.4 SLURRY VOL 118 WATER gal/bk 5.2 CEMENT LEFT IN CASING .20'
 DISPLACEMENT 17.5 DISPLACEMENT PSI 200* MIX PSI 200* RATE 4 1/2
 REMARKS: RIG UP - EST. CIR - RUN 225 SX 4 3/8 GAL AND 1/4 PHEAD. -
WASH OUT PUMP AND LINES - RELEASE PLUG - DISPLACING 17.5 leaving
Approx 20' in casing - shut well in - WASH UP - RACK UP.

PLUG DOWN 9:30pm CMT TO SNAF RECEIVED
Samples taken Thank you NOV 05 2012
 KCC WICHITA

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE		1030. ⁰⁰
5406	1	MILEAGE		200. ⁰⁰
5407	1	Bulk TRUCK		1237. ⁹²
1104	225sx	CLASS A CMT		2912. ⁴⁴
1102	600 ⁴	Calcium		270. ⁰⁰
1107A	50 ⁴	PHEAD		89. ⁰⁰
4432	1	9 5/8 wooden plug		80. ⁰⁰
				20% Disc
				Total \$4750. ⁷⁹
				SALES TAX 221. ⁰⁰
				ESTIMATED TOTAL \$5938. ⁷⁹

RAVH 3787 AUTHORIZATION [Signature] TITLE _____ DATE _____
 I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



MID CONTINENT WELL LOGGING SERVICES, INC.

CONTINUOUS WELL LOGGING / COMPLETE HYDROCARBON ANALYSIS

2222 WESTPARK DR. STE. A
NORMAN, OK 73069
OFFICE (405) 360-7333
OPERATIONS (405) 590-3655
SALES (405) 203-9989

RECEIVED

NOV 05 2012

KCC WICHITA

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: CHARLES # 1-18
Location: SEC 18-35S-7E
License Number: 34428
Spud Date: 7-29-2010
Surface Coordinates: 330' SSL, 1500' ESL

YALE OIL ASSOCIATION
COWLEY COUNTY KS
Region: COWLEY
Drilling Completed: 8-7-2010

Bottom Hole Coordinates: REPORT FOR MR. FRANK THOMPSON
LOGGER MR. BILL DEAL

Ground Elevation (ft): 1205 K.B. Elevation (ft): 1219
Logged Interval (ft): 323' To: 3050' Total Depth (ft): 3050'
Formation:
Type of Drilling Fluid: FRESH WATER AND NATIVE GEL

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: YALE OIL ASSOCIATION
Address: 6 N E 63RD ST SUITE 425
OKC, OK 73105

GEOLOGIST

Name: MR. GREGG COX
Company: YALE OIL ASSOCIATION
Address: 6 N E 63RD ST SUITE 425
OKC, OK 73105

Comments

ROCK TYPES

	Anhy		Congl		Sndylm		Ss
	Bent		Dol		Salt		Till
	Brec		Gyp		Shale		Blank
	Cht		Igne		Shcarb		Dolc ls
	Clyst		Lmst		Sndy sh		Calc dolo
	Coal		Meta		Sltst		

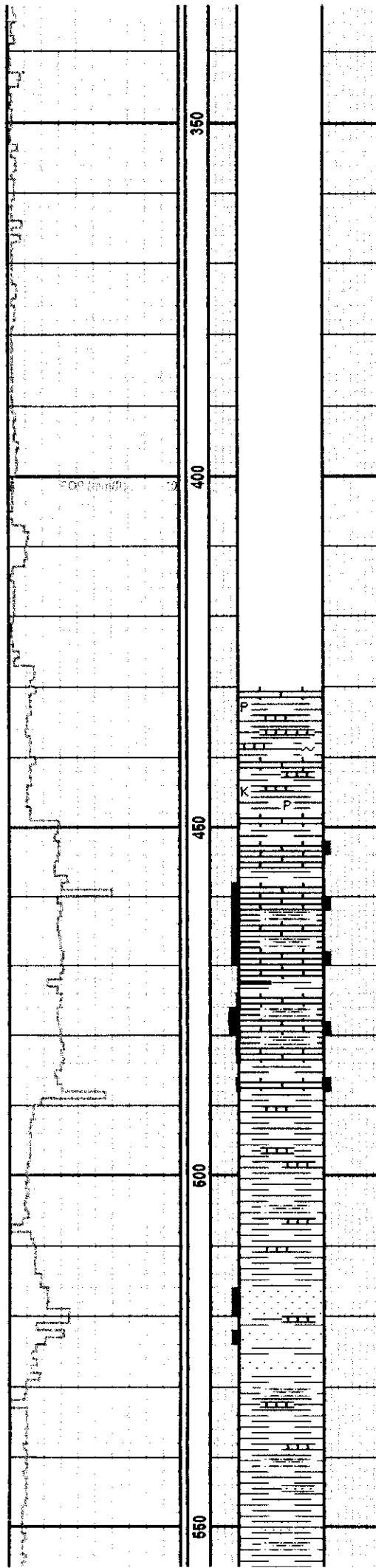
ACCESSORIES

MINERAL		Minxl		Echin		Sndylm	
	Quartz		Nodule		Fish		Sltstrg
	Anhy		Phos		Foram		Ssstrg
	Arggrn		Pyr		Fossil		Sltstn
	Arg		Salt		Gastro		
	Bent		Sandy		Oolite	TEXTURE	
	Bit		Silt		Ostra		Fissile
	Brecfrag		Sil		Pelec		Medxin
	Calc		Sulphur		Pellet		Boundst
	Carb		Tuff		Pisolite		Chalky
	Chtdk				Plant		Cryxln
	Chltt	FOSSIL			Strom		Earthy
	Dol		Algae	STRINGER			Finexln
	Feldspar		Amph		Anhy		Grainst
	Ferrpel		Belm		Arg		Lithogr
	Ferr		Bioclst		Bent		Microxln
	Glau		Brach		Coal		Mudst
	Gyp		Bryozoa		Dol		Packst
	Hvymin		Cephal		Gyp		Wackest
	Kaol		Coral		Ls		
	Marl		Crin				

SURVEY TRACK	ROP (min/ft) _____	Depth	Porosity	Lithology	FLOUR/CUT	Geological Descriptions	TG (Units)	_____
	C1 (units)						_____	
	C2 (units)						_____	
	C3 (units)						_____	
	C4 (units)						_____	
							C5 (units)	_____

8-2-2010	ROP (min/ft) _____	300	Lithology	FLOUR/CUT	Geological Descriptions	20 YALE OIL CHARLES # 1-18 180
	ROP _____				YALE OIL COMPANY CHARLES # 1-18 SEC 18-35S-7E COWLEY CO. KS GL = 1205 KB = 1219 SET 8 5/8 SURFACE CSG @ 323' BEGIN LOGGING ON 08-2-2010 WITH BIT # 1, 7 7/8" PDC VAREL BIT IN @ 323'	DRILLING WITH FRESH WATER
						GAS
						KD

WOB 6K
RPM 75
PP 400
SPM 52



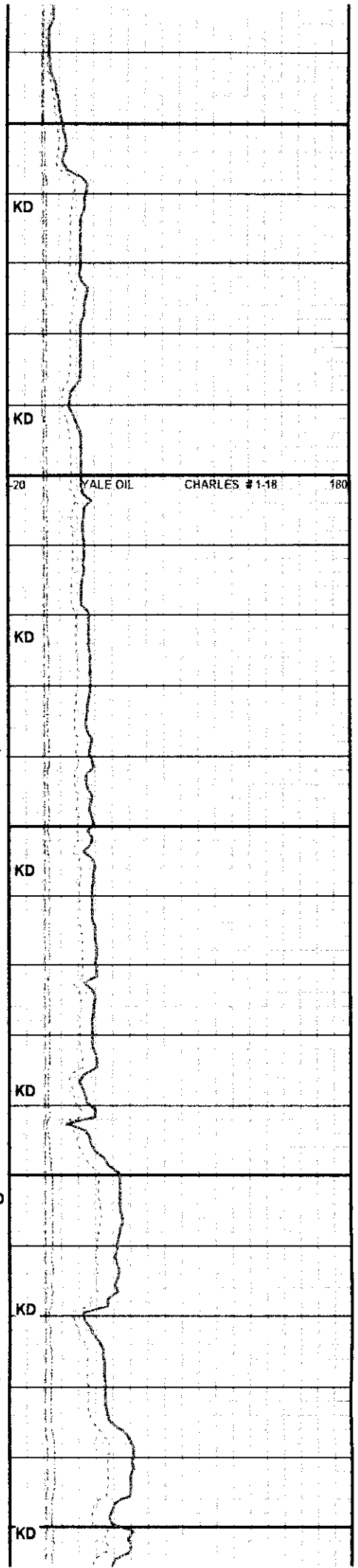
NO SAMPLES

LS: PRED OFF WH TO CRM, TAN TO LT GY, F XLN, DNSE, MOD FRM TO HRD, SM SCAT HL FRAC VIS, V SCAT DULL GLD FLOR, INTBD W SH: PRED LT GY TO GY, MOD SFT TO MOD FRM, BLKY, CHNKY TO PLTY, F TO MED TXT, WXY, SMTH, MICRO MICA THRU OUT, TR GLAU, TR KOAL, TR PYR

LS: PRED OFF WH TO CRM, LT TAN TO DRY WH, LT GY TO GY/TAN, F TO MED XLN, MOD FRM TO HRD, DNSE, HL FRAC, BLKY TO CHNKY, SCAT DULL GLD FLOR, NO CUT, INTBD W SH: LT GY TO GY, LT BRN

SH: PRED DRK GY/BLK, LT TO MED GY, BLK, LT BRN TO TAN, DRK BRN, BLK, VF TO F TXT, SCAT MED F TXT, SMTH TO SILTY, RTHY, MOD SFT TO MOD FRM, FRM TO OCC HRD, BLKY TO CHNKY, OCC PLTY, SLI CALC, SILTSTN THUR

SS: PERD OFF WH TO LT TAN, LT TO MED GY, OFF WH TO LT GY/WH, MOD TO WELL CONS, F TO VF GRNS, OCC MICRO F GRNS, BRTL TO FRI CLUSTS, FR TO GD INTRGR POR, SUB ANG TO SUB RD, WELL SRTD, SLI CALC CMT, NO FLOR, NO CUT, NO RESD RNG



KD

KD

KD

KD

KD

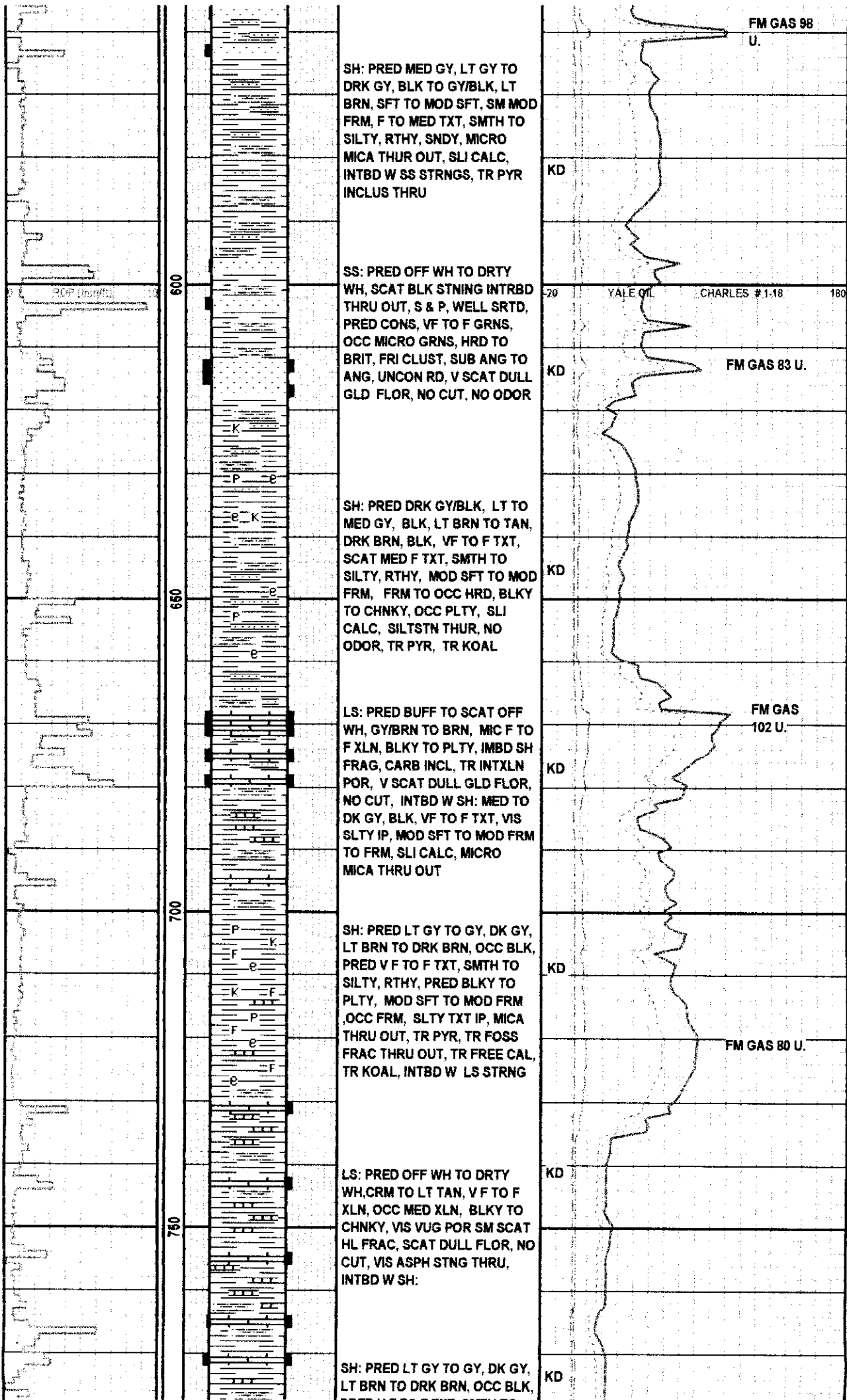
KD

KD

YALE OIL

CHARLES #1-18

180



SH: PRED MED GY, LT GY TO DRK GY, BLK TO GY/BLK, LT BRN, SFT TO MOD SFT, SM MOD FRM, F TO MED TXT, SMTH TO SILTY, RTHY, SNDY, MICRO MICA THRU OUT, SLI CALC, INTBD W SS STRNGS, TR PYR INCLUS THRU

SS: PRED OFF WH TO DRTY WH, SCAT BLK STING INTRBD THRU OUT, S & P, WELL SRTD, PRED CONS, VF TO F GRNS, OCC MICRO GRNS, HRD TO BRIT, FRI CLUST, SUB ANG TO ANG, UNCON RD, V SCAT DULL GLD FLOR, NO CUT, NO ODOR

SH: PRED DRK GY/BLK, LT TO MED GY, BLK, LT BRN TO TAN, DRK BRN, BLK, VF TO F TXT, SCAT MED F TXT, SMTH TO SILTY, RTHY, MOD SFT TO MOD FRM, FRM TO OCC HRD, BLKY TO CHNKY, OCC PLTY, SLI CALC, SILTSTN THUR, NO ODOR, TR PYR, TR KOAL

LS: PRED BUFF TO SCAT OFF WH, GY/BRN TO BRN, MIC F TO F XLN, BLKY TO PLTY, IMBD SH FRAG, CARB INCL, TR INTXLN POR, V SCAT DULL GLD FLOR, NO CUT, INTBD W SH: MED TO DK GY, BLK, VF TO F TXT, VIS SLTY IP, MOD SFT TO MOD FRM TO FRM, SLI CALC, MICRO MICA THRU OUT

SH: PRED LT GY TO GY, DK GY, LT BRN TO DRK BRN, OCC BLK, PRED V F TO F TXT, SMTH TO SILTY, RTHY, PRED BLKY TO PLTY, MOD SFT TO MOD FRM, OCC FRM, SLTY TXT IP, MICA THRU OUT, TR PYR, TR FOSS FRAC THRU OUT, TR FREE CAL, TR KOAL, INTBD W LS STRNG

LS: PRED OFF WH TO DRTY WH, CRM TO LT TAN, V F TO F XLN, OCC MED XLN, BLKY TO CHNKY, VIS VUG POR SM SCAT HL FRAC, SCAT DULL FLOR, NO CUT, VIS ASPH STNG THRU, INTBD W SH:

SH: PRED LT GY TO GY, DK GY, LT BRN TO DRK BRN, OCC BLK,

FM GAS 98 U.

YALE OIL CHARLES #1-18 180

FM GAS 83 U.

FM GAS 102 U.

FM GAS 80 U.

600

660

700

760

POP (in)

KD

KD

KD

KD

KD

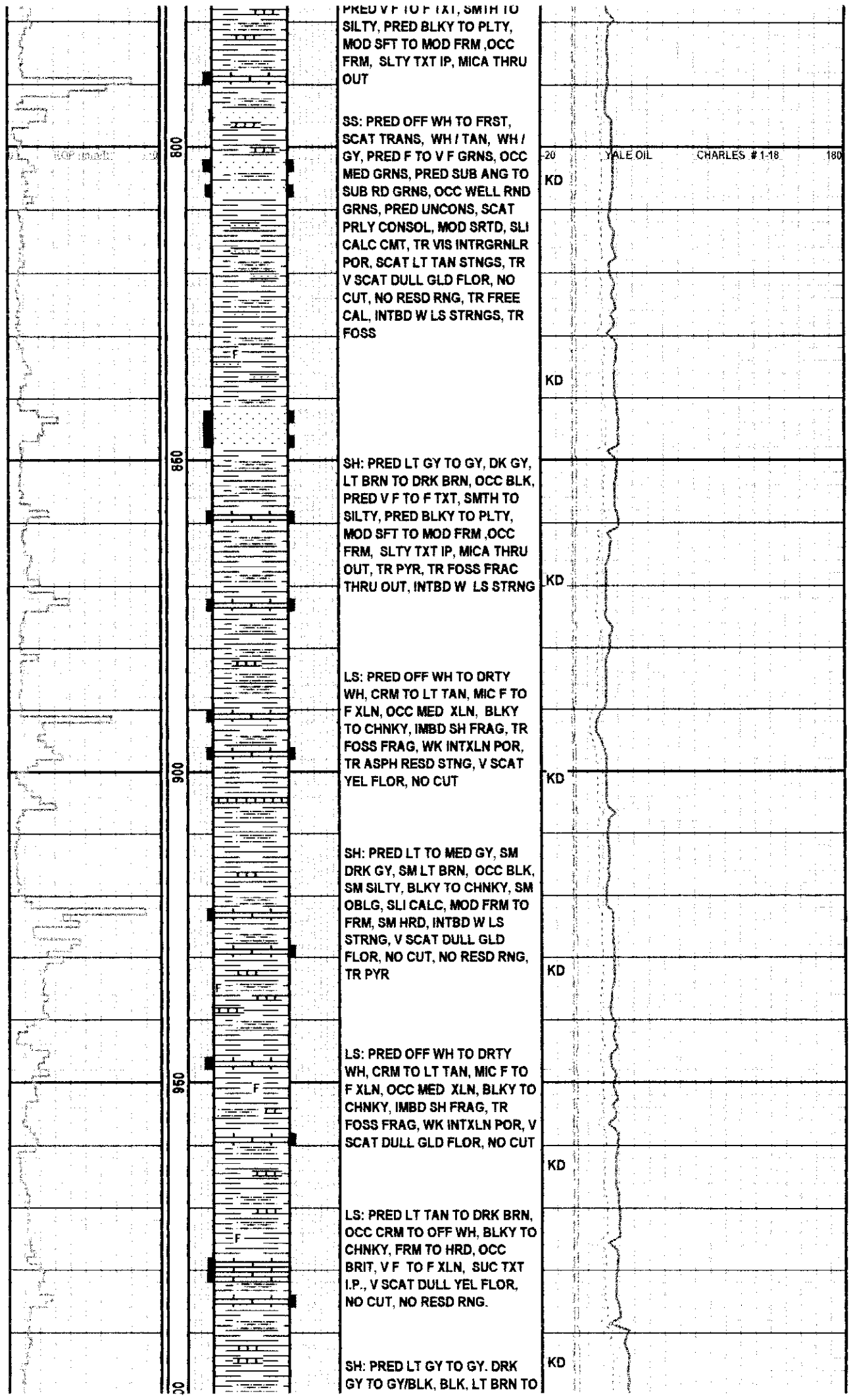
KD

KD

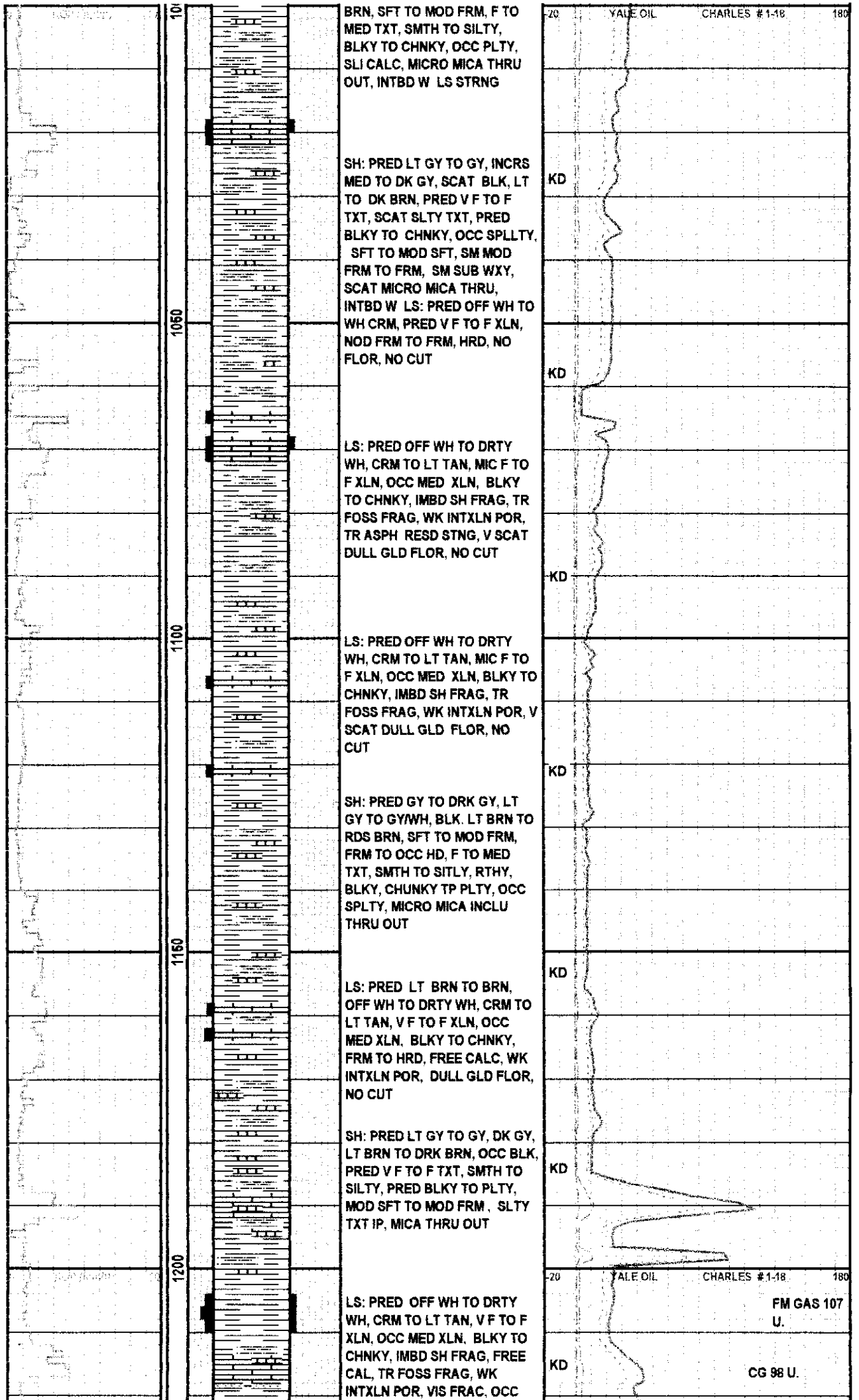
SURVEY @
805' 1"

8-3-2010

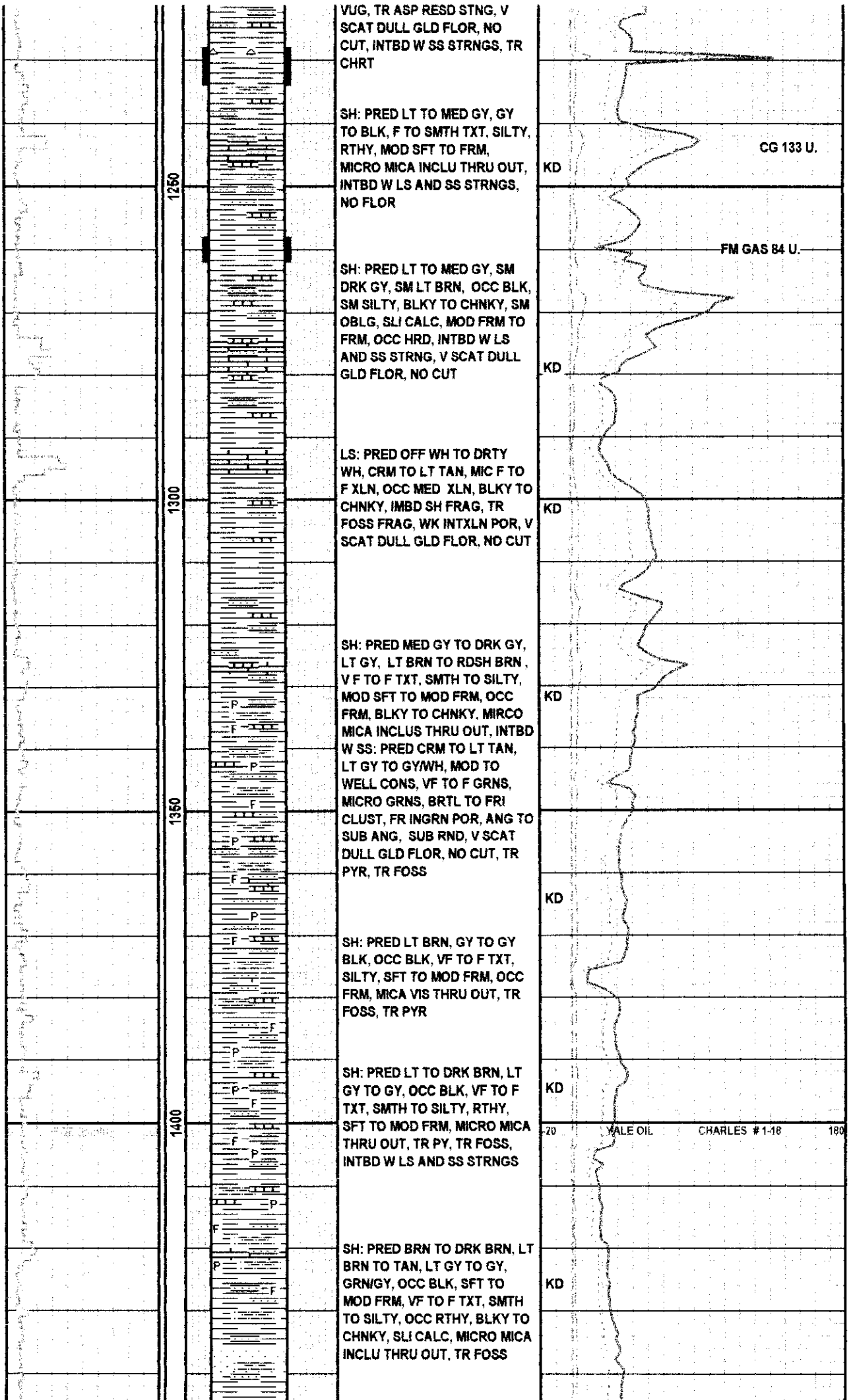
WOB 6K
RPM 75
PP 400
SPM 52



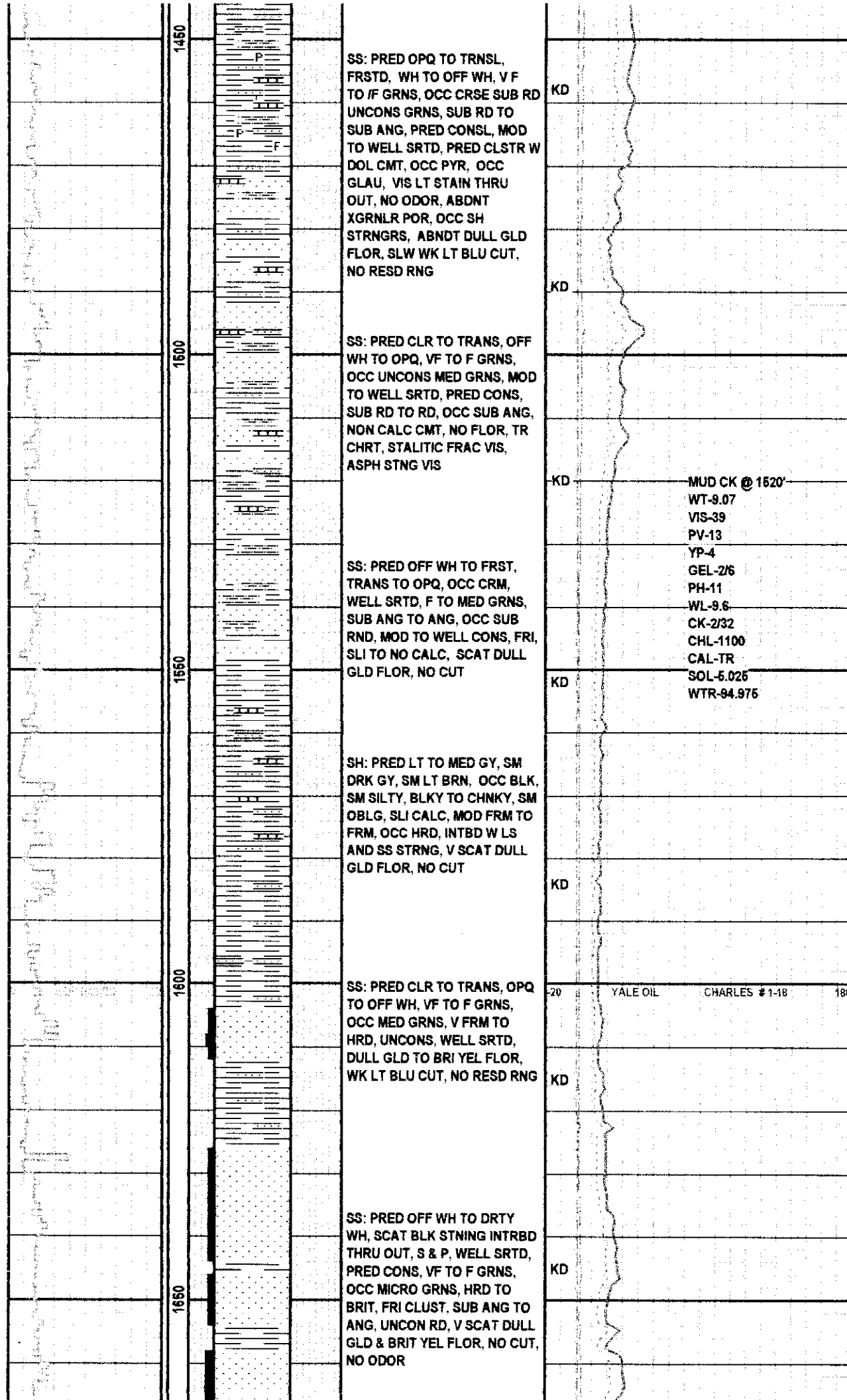
WOB 8-10K
RPM 75
PP 700
SPM 54



WOB 8-10K
 RPM 75
 PP 700
 SPM 54

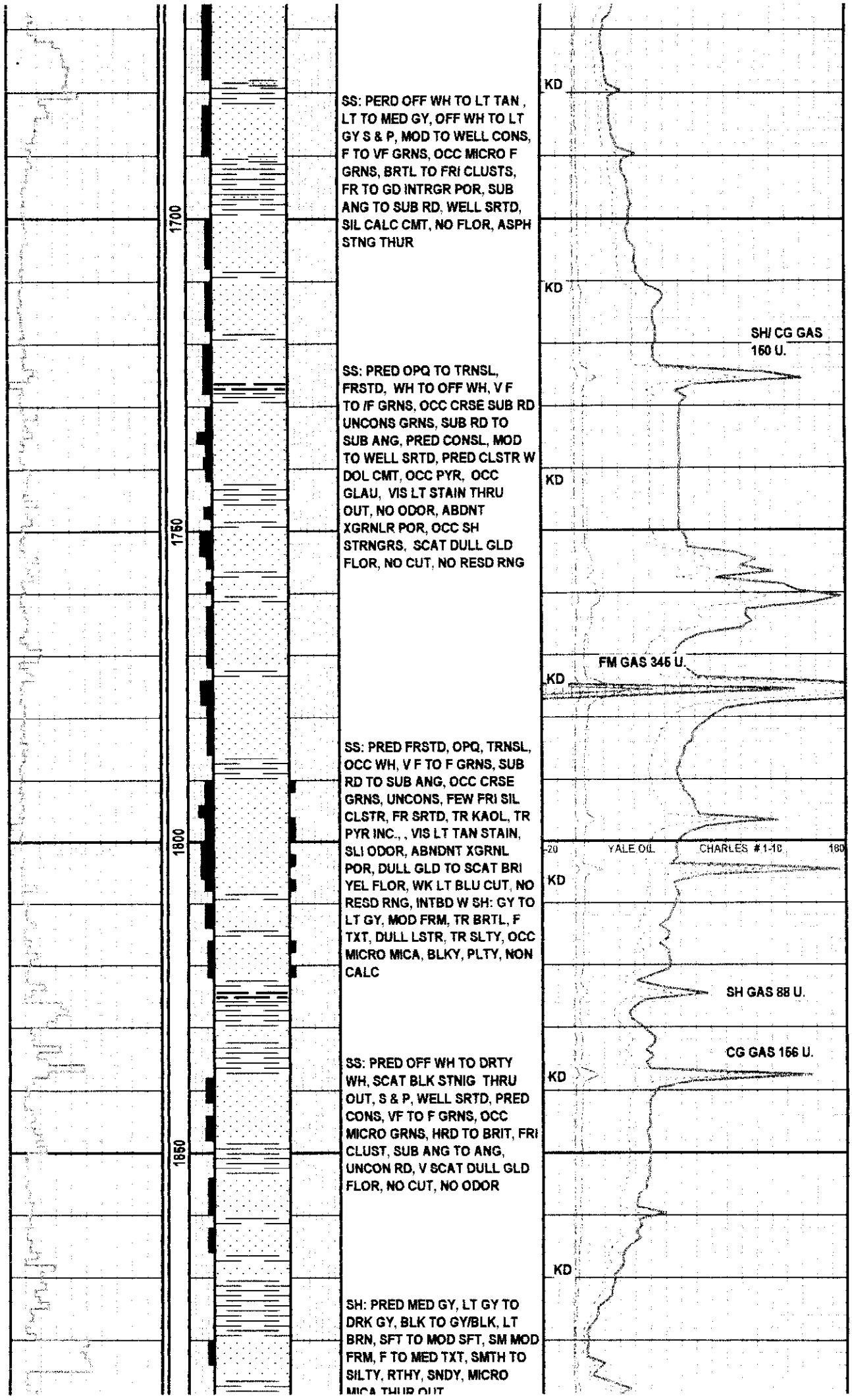


WOB 8-10K
RPM 75
PP 700
SPM 54



8-4-2010

WOB 6-8K
RPM 75
PP 800
SPM 57



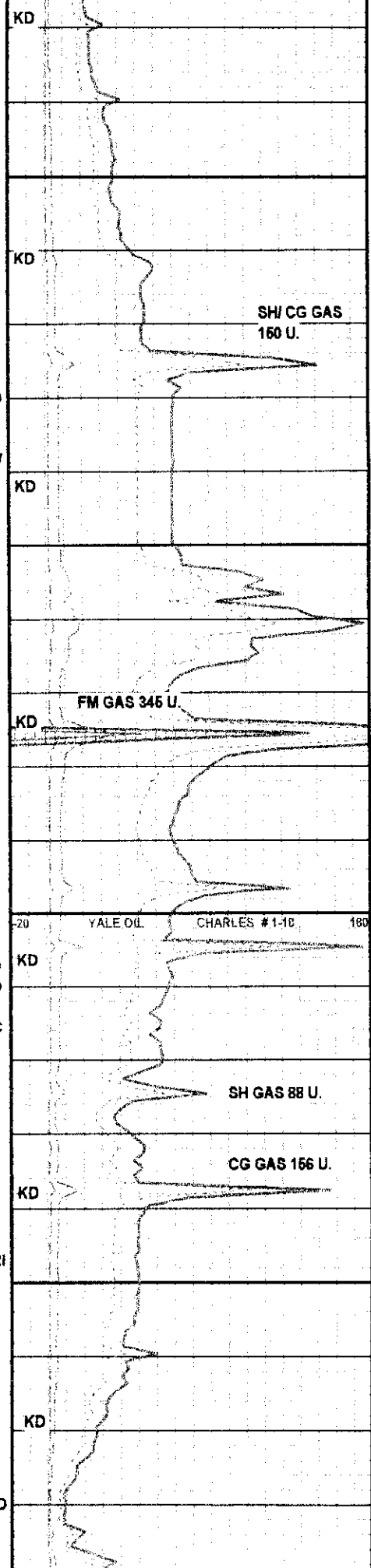
SS: PERD OFF WH TO LT TAN ,
LT TO MED GY, OFF WH TO LT
GY S & P, MOD TO WELL CONS,
F TO VF GRNS, OCC MICRO F
GRNS, BRTL TO FRI CLUSTS,
FR TO GD INTRGR POR, SUB
ANG TO SUB RD, WELL SRTD,
SIL CALC CMT, NO FLOR, ASPH
STNG THUR

SS: PRED OPQ TO TRNSL,
FRSTD, WH TO OFF WH, V F
TO IF GRNS, OCC CRSE SUB RD
UNCONS GRNS, SUB RD TO
SUB ANG, PRED CONSL, MOD
TO WELL SRTD, PRED CLSTR W
DOL CMT, OCC PYR, OCC
GLAU, VIS LT STAIN THRU
OUT, NO ODOR, ABDNT
XGRNLR POR, OCC SH
STRNGRS, SCAT DULL GLD
FLOR, NO CUT, NO RESD RNG

SS: PRED FRSTD, OPQ, TRNSL,
OCC WH, V F TO F GRNS, SUB
RD TO SUB ANG, OCC CRSE
GRNS, UNCONS, FEW FRI SIL
CLSTR, FR SRTD, TR KAOL, TR
PYR INC., VIS LT TAN STAIN,
SLI ODOR, ABDNT XGRNL
POR, DULL GLD TO SCAT BRI
YEL FLOR, WK LT BLU CUT, NO
RESD RNG, INTBD W SH: GY TO
LT GY, MOD FRM, TR BRTL, F
TXT, DULL LSTR, TR SLTY, OCC
MICRO MICA, BLKY, PLTY, NON
CALC

SS: PRED OFF WH TO DRTY
WH, SCAT BLK STNIG THRU
OUT, S & P, WELL SRTD, PRED
CONS, VF TO F GRNS, OCC
MICRO GRNS, HRD TO BRIT, FRI
CLUST, SUB ANG TO ANG,
UNCON RD, V SCAT DULL GLD
FLOR, NO CUT, NO ODOR

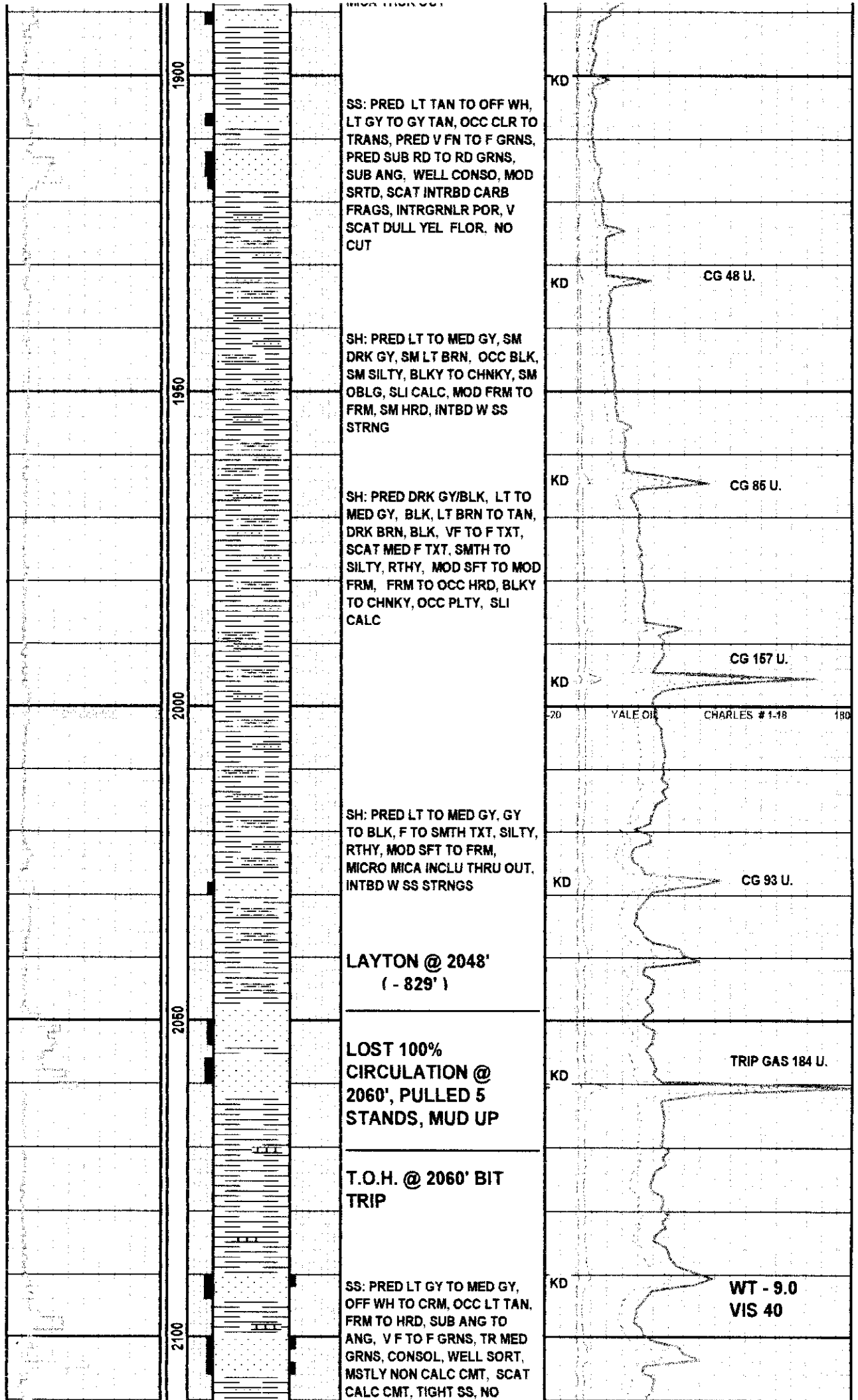
SH: PRED MED GY, LT GY TO
DRK GY, BLK TO GY/BLK, LT
BRN, SFT TO MOD SFT, SM MOD
FRM, F TO MED TXT, SMTH TO
SILTY, RTHY, SNDY, MICRO
MICA THUR OUT

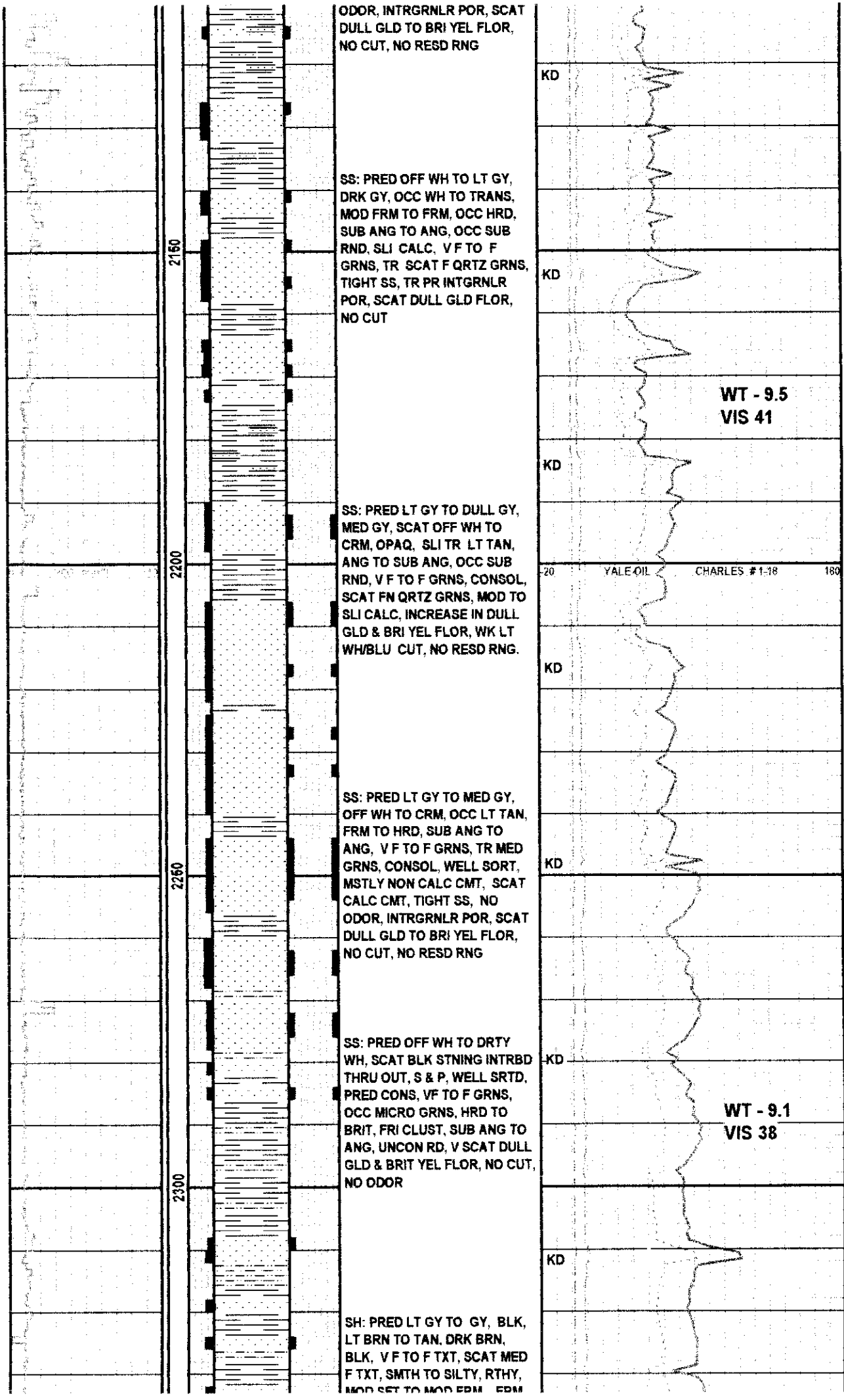


SURVEY @
2028' 3/4°

8-5-2010

WOB 6-8K
RPM 75
DP 600





ODOR, INTRGRNLR POR, SCAT DULL GLD TO BRI YEL FLOR, NO CUT, NO RESD RNG

KD

SS: PRED OFF WH TO LT GY, DRK GY, OCC WH TO TRANS, MOD FRM TO FRM, OCC HRD, SUB ANG TO ANG, OCC SUB RND, SLI CALC, V F TO F GRNS, TR SCAT F QRTZ GRNS, TIGHT SS, TR PR INTGRNLR POR, SCAT DULL GLD FLOR, NO CUT

KD

WT - 9.5
VIS 41

SS: PRED LT GY TO DULL GY, MED GY, SCAT OFF WH TO CRM, OPAQ, SLI TR LT TAN, ANG TO SUB ANG, OCC SUB RND, V F TO F GRNS, CONSOL, SCAT FN QRTZ GRNS, MOD TO SLI CALC, INCREASE IN DULL GLD & BRI YEL FLOR, WK LT WH/BLU CUT, NO RESD RNG.

KD

KD

20 YALE OIL CHARLES #1-18 180

SS: PRED LT GY TO MED GY, OFF WH TO CRM, OCC LT TAN, FRM TO HRD, SUB ANG TO ANG, V F TO F GRNS, TR MED GRNS, CONSOL, WELL SORT, MSTLY NON CALC CMT, SCAT CALC CMT, TIGHT SS, NO ODOR, INTRGRNLR POR, SCAT DULL GLD TO BRI YEL FLOR, NO CUT, NO RESD RNG

KD

SS: PRED OFF WH TO DRTY WH, SCAT BLK STNING INTRBD THRU OUT, S & P, WELL SRTD, PRED CONS, VF TO F GRNS, OCC MICRO GRNS, HRD TO BRIT, FRI CLUST, SUB ANG TO ANG, UNCON RD, V SCAT DULL GLD & BRIT YEL FLOR, NO CUT, NO ODOR

KD

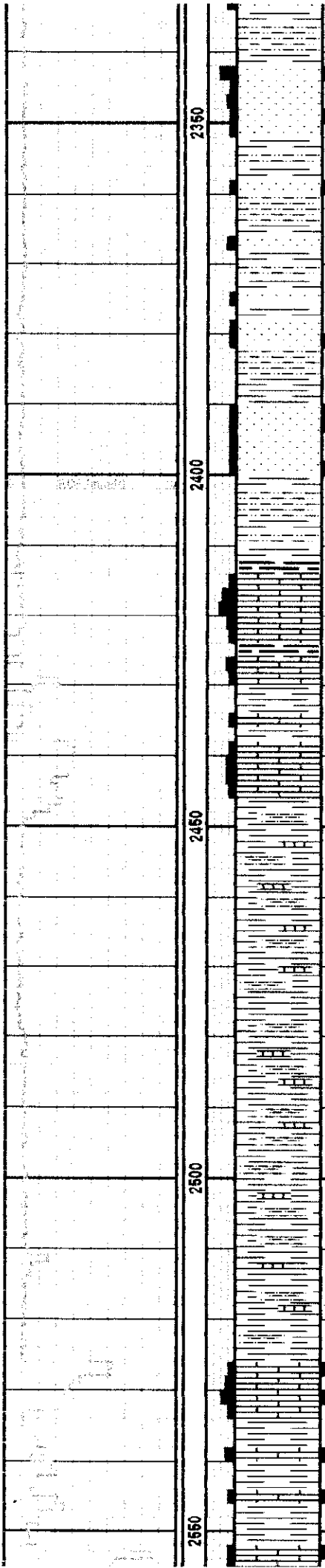
WT - 9.1
VIS 38

KD

SH: PRED LT GY TO GY, BLK, LT BRN TO TAN, DRK BRN, BLK, V F TO F TXT, SCAT MED F TXT, SMTH TO SILTY, RTHY, MOD SET TO MOD EDM EDM

WOB 6-8K
RPM 75
PP 600
SPM 50

8-6-2010



MOD GRN TO MOD FRM, FRM
TO OCC HRD, BLKY TO CHNKY,
OCC PLTY, SLI CALC, SILTSTN
THUR, NO FLOR, NO CUT, NO
ODOR, TR PYR, TR FOSS

KD

SS: PRED LT GY TO MED GY,
OFF WH TO CRM, OCC LT TAN,
FRM TO HRD, SUB ANG TO
ANG, V F TO F GRNS, TR MED
GRNS, CONSOL, WELL SORT,
MSTLY NON CALC CMT, SCAT
CALC CMT, TIGHT SS, NO
ODOR, INTRGRNLR POR, SCAT
DULL GLD TO BRI YEL FLOR,
NO CUT, NO RESD RNG

KD

**CHECKERBOARD @
2413' (-1194')**

LS: PRED LT BRN TO BRN,
OFF WH TO DRTY WH, CRM TO
LT TAN, V F TO F XLN, OCC
MED XLN, BLKY TO CHNKY,
IMBD SH FRAG, FR INTXLN
POR, TR ASPH RESD STNG, V
SCAT BRIT YEL FLOR, NO CUT

KD

FM GAS 392

U

YALE OIL CHARLES # 1-18 180
SH GAS 170 U.

SH GAS 194 U.

KD

SH: PRED LT TO MED GY, SM
DRK GY, OCC BLK, SM SILTY,
BLKY TO CHNKY, SM OBLG, SLI
CALC, MOD FRM TO FRM, SM
HRD, INTBD W LS STRNG, V
SCAT DULL GLD FLOR, NO
CUT, NO RESD RNG

KD

SH: PRED DRK GY/BLK, LT TO
MED GY, BLK, LT BRN TO TAN,
DRK BRN, BLK, VF TO F TXT,
SCAT MED F TXT, SMTH TO
SILTY, RTHY, MOD SFT TO MOD
FRM, FRM TO OCC HRD, BLKY
TO CHNKY, OCC PLTY, SLI
CALC

KD

WT - 9.0
VIS 40

**MARMATON @ 2525'
(-1306')**

LS: PRED OFF WH TO DRTY
WH, CRM TO LT TAN, MIC F TO
F XLN, OCC MED XLN, BLKY TO
CHNKY, FR INTXLN POR, HL
FRAC, OCC VUG, V SCAT YEL
FLOR, NO CUT

KD

LS: PRED OFF WH TO WH, TR
OFF WH/GY, MOD FRM TO HRD,
TR BRTL, VF TO F XLN, SM F
SUC TXT, PLTY TO CHNKY, SM
PP TO FN VUG POR, HL TO F
FRAC, OCC XLN POR, DULL
GLD TO BRI YEL FLOR, NO CUT,
NO RESD RNG

SS: PRED CLR TO TRANS, OPQ
TO OFF WH, LT GY TO GY, VF
TO F GRNS, OCC MED GRNS, V
FRM TO HRD, UNCONS, WELL
SRTD, DULL GLD TO BRI YEL
FLOR, FR TO BLOM LT BLU
CUT, NO RESD RNG

SH: PRED DRK GY/BLK, LT TO
MED GY, BLK, LT BRN TO TAN,
DRK BRN, BLK, VF TO F TXT,
SCAT MED F TXT, SMTH TO
SILTY, RTHY, MOD SFT TO MOD
FRM, FRM TO OCC HRD, BLKY
TO CHNKY, OCC PLTY, SLI
CALC, SILTSTN THUR, NO
FLOR, NO CUT, NO ODOR, TR
PYR, TR FOSS

LS: PRED LT TO DRK BRN,
GYBRN TO TAN, OCC OFF WH
TO DRTY WH, V F TO F XLN,
OCC MED, BLKY TO CHNKY,
MOD FRM TO FRM OCC HRD,
VIS HL FRAC, OC VUG POR VIS,
NO FLOR

SH: PRED BLK/BRN TO DRK
BRN, MOD FRM TO FRM, OCC
BRTL, F TO MED TXT, RTHY,
DULL LSTR, PLTY TO BLKY, TR
PYR

LS: PRED LT TO DRK BRN,
GYBRN TO TAN, OCC OFF WH
TO DRTY WH, V F TO F XLN,
OCC MED, BLKY TO CHNKY,
MOD FRM TO FRM OCC HRD,
VIS HL FRAC, OC VUG POR VIS,
DULL GLD TO SCAT BRI YEL
FLOR, V WK TO NO LT BLU
CUT, NO RESD RNG

SH: PRED BLK/BRN TO DRK
BRN, MOD FRM TO FRM, OCC
BRTL, F TO MED TXT, RTHY,
DULL LSTR, PLTY TO BLKY, TR
PYR

SKINNER @ 2772'
(- 1553')

KD
MUD CK @ 2696'
WT- 9.0
VIS- 38
PV- 13
YP- 6
GEL- 2/10
PH- 10.5
WL- 8.2
CK- 2/32
CHL- 900
CAL- TR
SOL- 4.876
WTR- 96.126

20 YALE OIL CHARLES # 1-18 180

FM GAS 241 U.

CG/SH GAS 303 U.

KD

KD
WT - 9.1
VIS 40

SH GAS MAX 365 U.

KD
FM GAS 399 U.

FM GAS 359 U.

KD
FM GAS 372 U.

KD

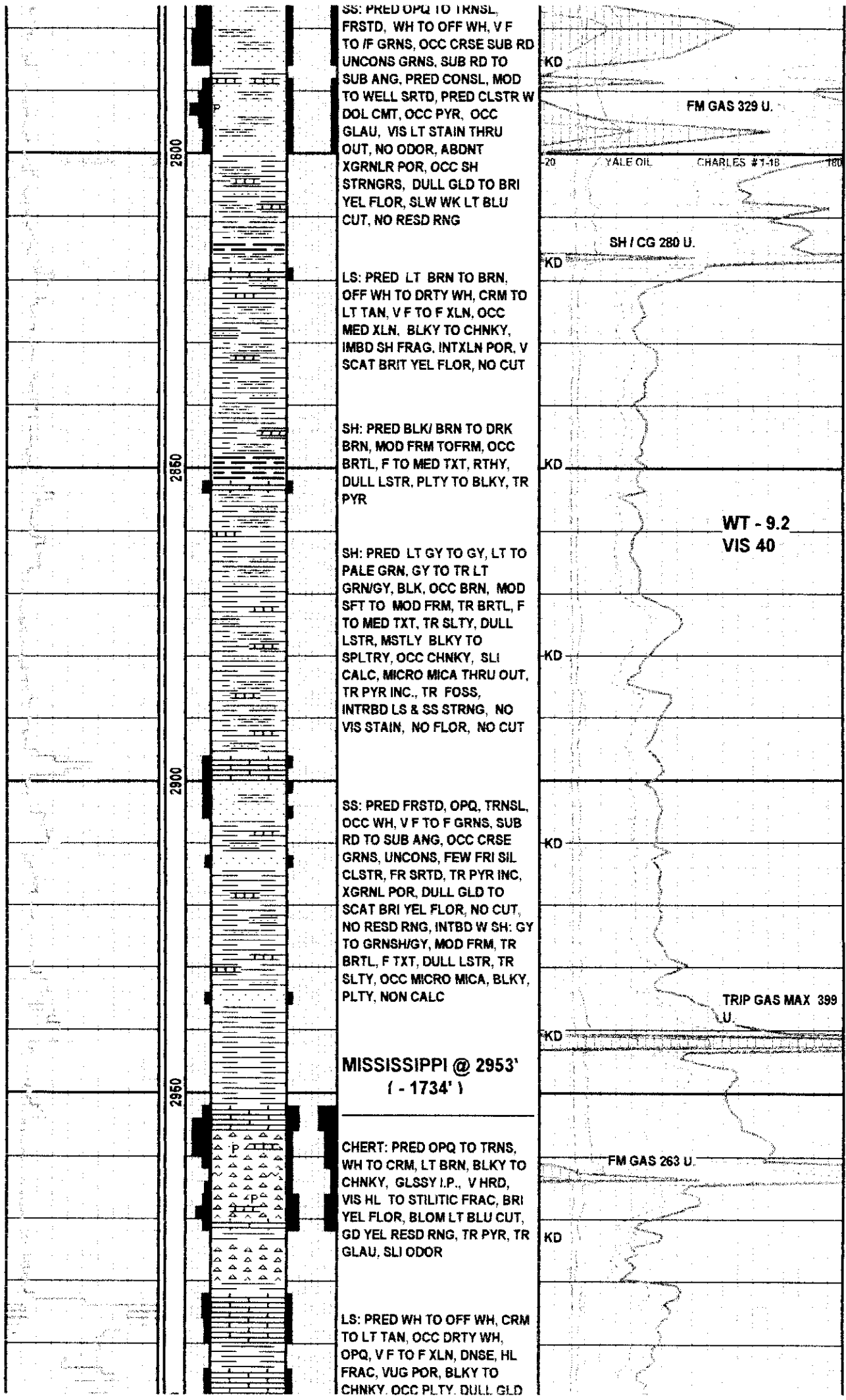
2600

2650

2700

2750

8-7-2010



SS: PRED OPQ TO TRNSL,
FRSTD, WH TO OFF WH, V F
TO /IF GRNS, OCC CRSE SUB RD
UNCONS GRNS, SUB RD TO
SUB ANG. PRED CONSL, MOD
TO WELL SRTD, PRED CLSTR W
DOL CMT, OCC PYR, OCC
GLAU, VIS LT STAIN THRU
OUT, NO ODOR, ABDNT
XGRNLR POR, OCC SH
STRNGRS, DULL GLD TO BRI
YEL FLOR, SLW WK LT BLU
CUT, NO RESD RNG

LS: PRED LT BRN TO BRN,
OFF WH TO DRTY WH, CRM TO
LT TAN, V F TO F XLN, OCC
MED XLN, BLKY TO CHNKY,
IMBD SH FRAG, INTXLN POR, V
SCAT BRIT YEL FLOR, NO CUT

SH: PRED BLK/ BRN TO DRK
BRN, MOD FRM TOFRM, OCC
BRTL, F TO MED TXT, RTHY,
DULL LSTR, PLTY TO BLKY, TR
PYR

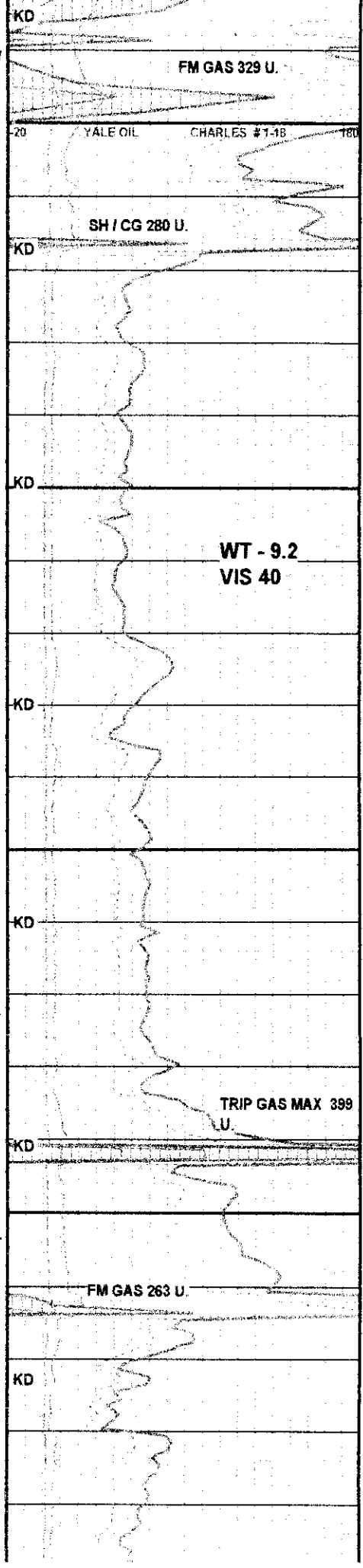
SH: PRED LT GY TO GY, LT TO
PALE GRN, GY TO TR LT
GRN/GY, BLK, OCC BRN, MOD
SFT TO MOD FRM, TR BRTL, F
TO MED TXT, TR SLTY, DULL
LSTR, MSTLY BLKY TO
SPLTRY, OCC CHNKY, SLI
CALC, MICRO MICA THRU OUT,
TR PYR INC., TR FOSS,
INTRBD LS & SS STRNG, NO
VIS STAIN, NO FLOR, NO CUT

SS: PRED FRSTD, OPQ, TRNSL,
OCC WH, V F TO F GRNS, SUB
RD TO SUB ANG, OCC CRSE
GRNS, UNCONS, FEW FRI SIL
CLSTR, FR SRTD, TR PYR INC,
XGRNL POR, DULL GLD TO
SCAT BRI YEL FLOR, NO CUT,
NO RESD RNG, INTBD W SH: GY
TO GRNSH/GY, MOD FRM, TR
BRTL, F TXT, DULL LSTR, TR
SLTY, OCC MICRO MICA, BLKY,
PLTY, NON CALC

**MISSISSIPPI @ 2953'
(- 1734')**

CHERT: PRED OPQ TO TRNS,
WH TO CRM, LT BRN, BLKY TO
CHNKY, GLSSY I.P., V HRD,
VIS HL TO STILITIC FRAC, BRI
YEL FLOR, BLOM LT BLU CUT,
GD YEL RESD RNG, TR PYR, TR
GLAU, SLI ODOR

LS: PRED WH TO OFF WH, CRM
TO LT TAN, OCC DRTY WH,
OPQ, V F TO F XLN, DNSE, HL
FRAC, VUG POR, BLKY TO
CHNKY, OCC PLTY, DULL GLD



TO BRI YEL FLOR, NO CUT, NO
RESD RNG, SLI ODOR.

20 YALE OIL CHARLES # 1-18 180

KD WT - 9.1
VIS 75

LS: PRED OFF WH TO WH, TR
OFF WH/GY, MOD FRM TO HRD.
TR BRTL, VF TO F XLN, SM F
SUC TXT, PLTY TO CHNKY, SM
PP TO FN VUG POR, HL TO F
FRAC, OCC XLN POR, DULL
GLD TO BRI YEL FLOR, NO CUT,
NO RESD RNG

KD MUD CK @ 3030'
WT- 9.5
VIS- 66
PV- 22
YP- 8
GEL- 6/18
PH- 9.5
WL- 6.2
CK- 2/32
CHL- 1200
CAL- TR
SOL- 8.625
WTR- 91.375

ROP

DRILLERS TD WELL
@ 3050'

GAS

GL = 1205
KB = 1219

YALE OIL COMPANY
CHARLES # 1-18
SEC 18-35S-7E
COWLEY CO. KS

3000
3050
30