

NOMAC SERVICES

GEO



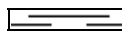
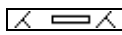

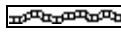



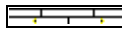
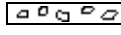

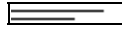

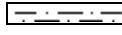
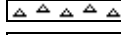



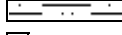


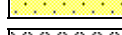
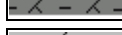



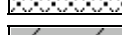





16217 N. May Ave.
Edmond, Oklahoma 73013

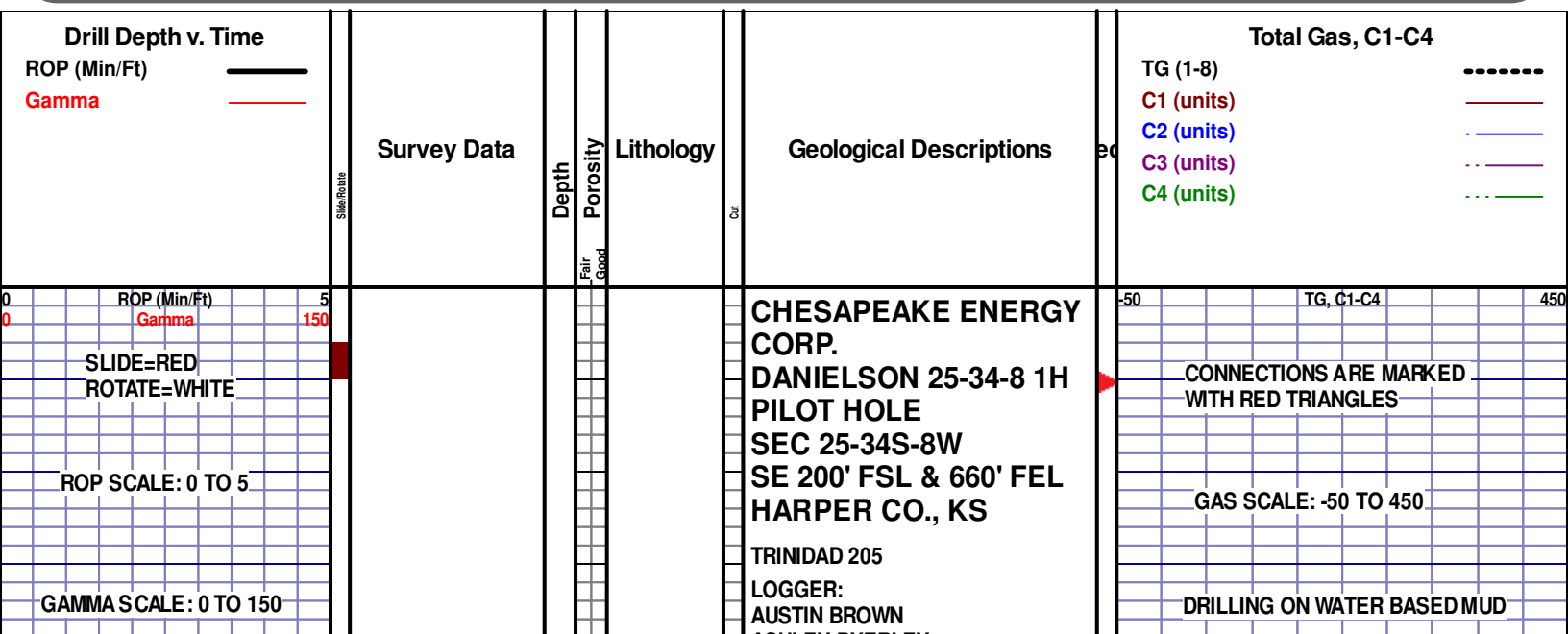
24/7 Ops Support 405.562.4149
fax 405.285.0478

APPS.NOMACSERVICES.COM

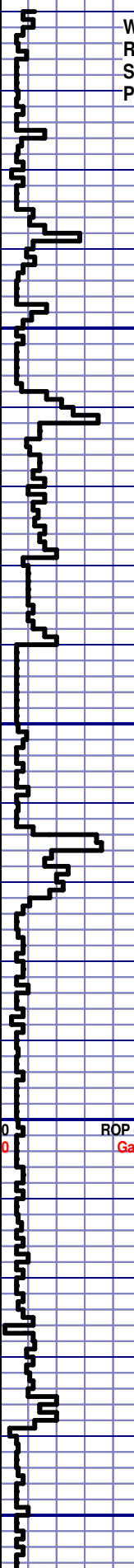
Customer Information	Well Information
<p>Operator: Chesapeake Energy Corp. 6100 N. Western Avenue Oklahoma City, OK 73118</p> <p>Geologist: Hayet Serradji Chesapeake Energy Corp.</p>	<p>Well Name: Danielson 25-34-8 1H Pilot Hole</p> <p>Location: 25-34S-8W NE 300' FNL & 660' FEL</p> <p>County: Harper State: Kansas</p>
Mud Logging Details	
<p>Logger: Austin Brown</p> <p>Log Interval: 3,460' to 5,247'</p> <p>Start Date: May 6, 2012</p> <p>Release Date: May 13, 2012</p>	<p>Drilling Rig: Trinidad 205</p> <p>Total Depth: 5,247'</p> <p>TD Date: May 11, 2012</p> <p>Formation: Mississippi Lime</p> <p>KB Elevation: 1,327'</p> <p>GR Elevation: 1,312'</p> <p>API Number: 15-077-21749</p>

ROCK TYPES

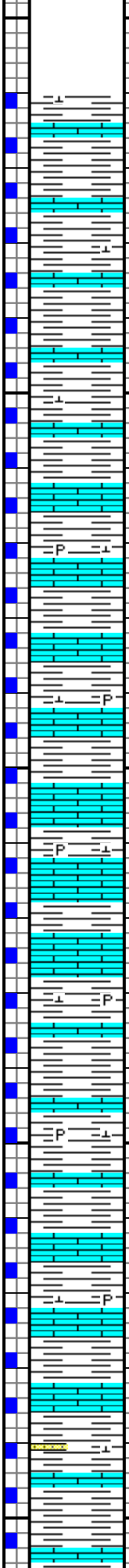
 Anhy	 Dol	 Shale	 Imywash	 NO SMPL nosmpl
 Bent	 Gyp	 Shcol	 ogw	 Lsdetrit
 Brec	 Igne	 Shgy	 olmywash	 sltst
 Cht	 Lmst	 Slstst	 oshly gw	 sdy sh
 Clyst	 Meta	 Ss	 shly gw	 Cement
 Coal	 Mrlst	 Till	 sdygw	
 Congl	 Salt	 gw	 hvycrbsh	



WOB 15.3K
RPM 50
SPM 82/78
PP 1817



3450
3500
3550
3600
3650



ASHLEY BYERLEY
CALLED OUT BY COMPANY MAN
ON 5/6/12. COMMENCED LOGGING
@ 3,460' MD @ 11:30 AM ON 5/7/12
W/BIT #2 SIZE: 8.75" TYPE: MSI515
SERIAL: JF6417 JETS: 5/16 IN @
755' MD.

70% SH; GRY TO DK GRY, EARTHY
TXT, SOFT TO FIRM, PYR
NODULES, NO VIS FRACT, MINOR
CALC, BLKY TO PLATY, SOME
BUBBLING: 2, 30% LS; CRM, MED
TO FINE XLN, CHALKY, SOFT TO
BRITTLE, POOR PP POR, YLW
FLUOR, NO STRM CUT, NO CUT
AFTER CRUSH, NO VIS STAIN

BASE HEEBNER

3,512' MD 3,512' TVD (-2,185' SS)

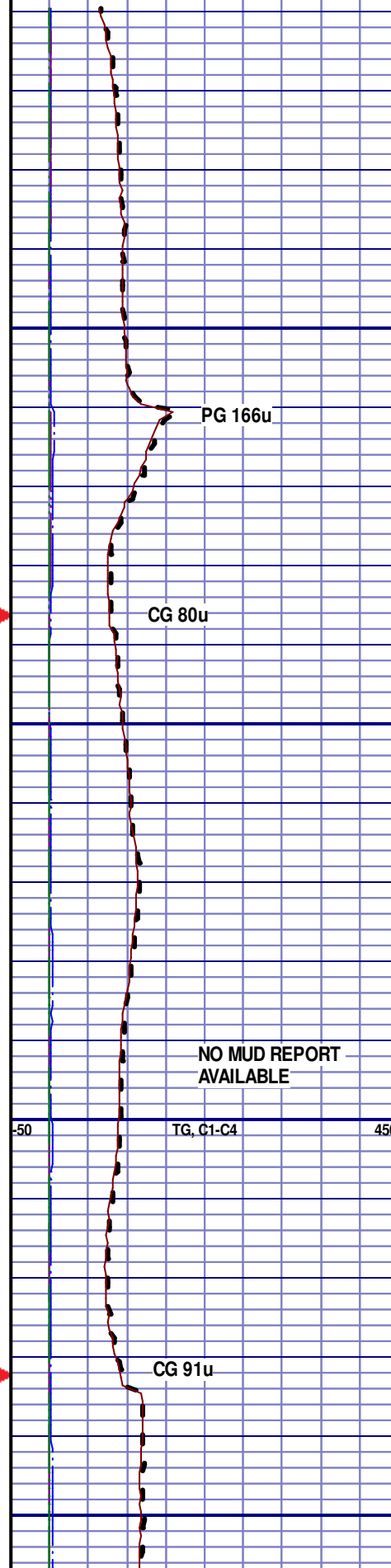
60% SH; GRY TO DK GRY, EARTHY
TXT, SOFT TO FIRM, PYR
NODULES, NO VIS FRACT, MINOR
CALC, BLKY TO PLATY, SOME
BUBBLING: 2, 40% LS; CRM, MED
TO FINE XLN, CHALKY, SOFT TO
BRITTLE, POOR PP POR, YLW
FLUOR, NO STRM CUT, NO CUT
AFTER CRUSH, NO VIS STAIN

60% LS; CRM, MED TO FINE XLN,
CHALKY, SOFT TO BRITTLE, POOR
PP POR, YLW FLUOR, NO STRM
CUT, NO CUT AFTER CRUSH, NO
VIS STAIN, 40% SH; GRY TO DK
GRY, EARTHY TXT, SOFT TO FIRM,
PYR NODULES, NO VIS FRACT,
MINOR CALC, BLKY TO PLATY,
SOME BUBBLING: 2

70% SH; GRY TO DK GRY, EARTHY
TXT, SOFT TO FIRM, PYR
NODULES, NO VIS FRACT, MINOR
CALC, BLKY TO PLATY, SOME
BUBBLING: 2, 30% LS; CRM, MED
TO FINE XLN, CHALKY, SOFT TO
BRITTLE, POOR PP POR, YLW
FLUOR, NO STRM CUT, NO CUT
AFTER CRUSH, NO VIS STAIN

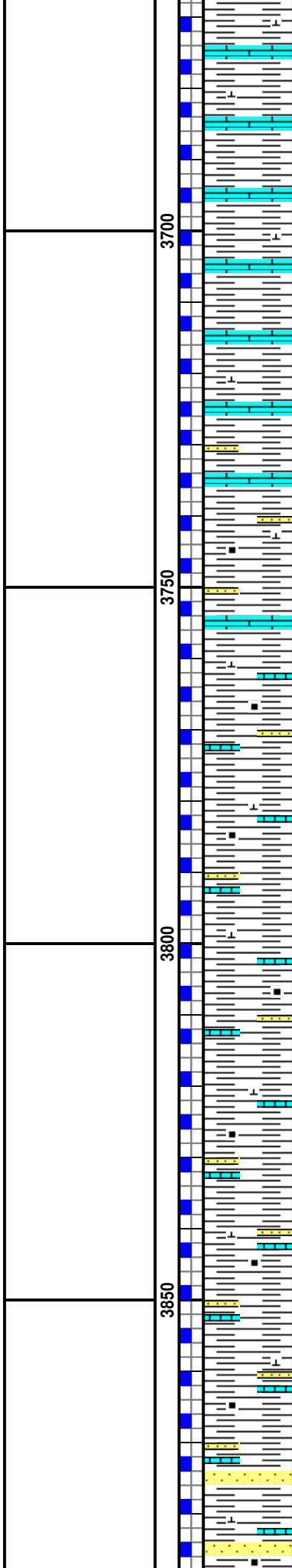
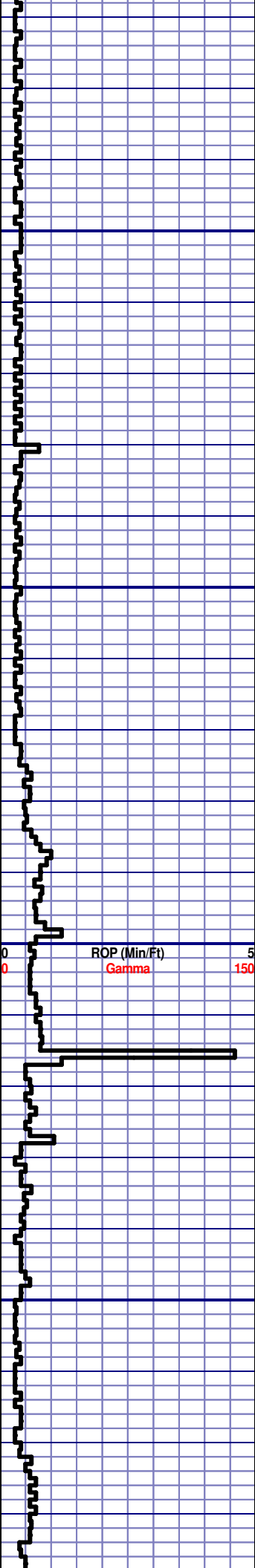
60% SH; GRY TO DK GRY, EARTHY
TXT, SOFT TO FIRM, PYR
NODULES, NO VIS FRACT, MINOR
CALC, BLKY TO PLATY, SOME
BUBBLING: 2, 40% LS; CRM, MED
TO FINE XLN, CHALKY, SOFT TO
BRITTLE, POOR PP POR, YLW
FLUOR, NO STRM CUT, NO CUT
AFTER CRUSH, NO VIS STAIN

69% SH; GRY TO DK GRY, EARTHY
TXT, SOFT TO FIRM, NO VIS FRACT,
MINOR CALC, BLKY TO PLATY,
MINOR BUBBLING: 1, 30% LS; CRM,
MED TO FINE XLN, CHALKY, SOFT
TO BRITTLE, POOR PP POR, YLW
FLUOR, NO STRM CUT, NO CUT
AFTER CRUSH, NO VIS STAIN, 1%
SS; OFF WH, OPAQUE



ROP (Min/Ft) 5
Gamma 150

-50 TG, C1-C4 450



80% SH; GRY TO DK GRY, EARTHY TXT, SOFT TO FIRM, NO VIS FRACT, MINOR CALC, BLKY TO PLATY, MINOR BUBBLING: 1, 20% LS; CRM, MED TO FINE XLN, CHALKY, SOFT TO BRITTLE, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN

80% SH; GRY TO DK GRY, EARTHY TXT, SOFT TO FIRM, NO VIS FRACT, MINOR CALC, BLKY TO PLATY, MINOR BUBBLING: 1, 20% LS; CRM, MED TO FINE XLN, CHALKY, SOFT TO BRITTLE, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN

85% SH; GRY TO DK GRY, MED TXT, SOFT TO FIRM, CALC NODULES, NO VIS FRACT, MINOR CALC, BLKY TO PLATY, CARB, NO BUBBLING: 0, 10% LS; CRM, MED TO FINE XLN, CHALKY, SOFT TO BRITTLE, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN, 5% SS; OFF WH TO LT GRY, FGR, SUB-RND, OPA, BRITTLE, M/CONSOL

96% SH; GRY TO DK GRY, MED TXT, SOFT TO FIRM, CALC NODULES, NO VIS FRACT, MINOR CALC, BLKY TO PLATY, CARB, NO BUBBLING: 0, 3% LS; CRM, YLW FLUOR, 1% SS; OFF WH TO LT GRY, FGR

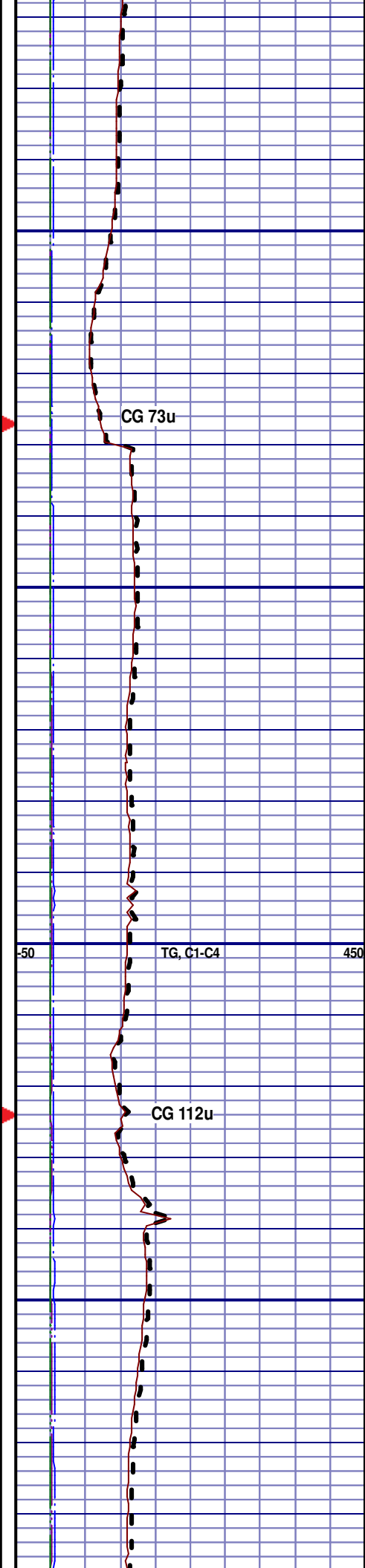
96% SH; GRY TO DK GRY, MED TXT, SOFT TO FIRM, CALC NODULES, NO VIS FRACT, MINOR CALC, BLKY TO PLATY, CARB, NO BUBBLING: 0, 3% LS; CRM, YLW FLUOR, 1% SS; OFF WH TO LT GRY, FGR

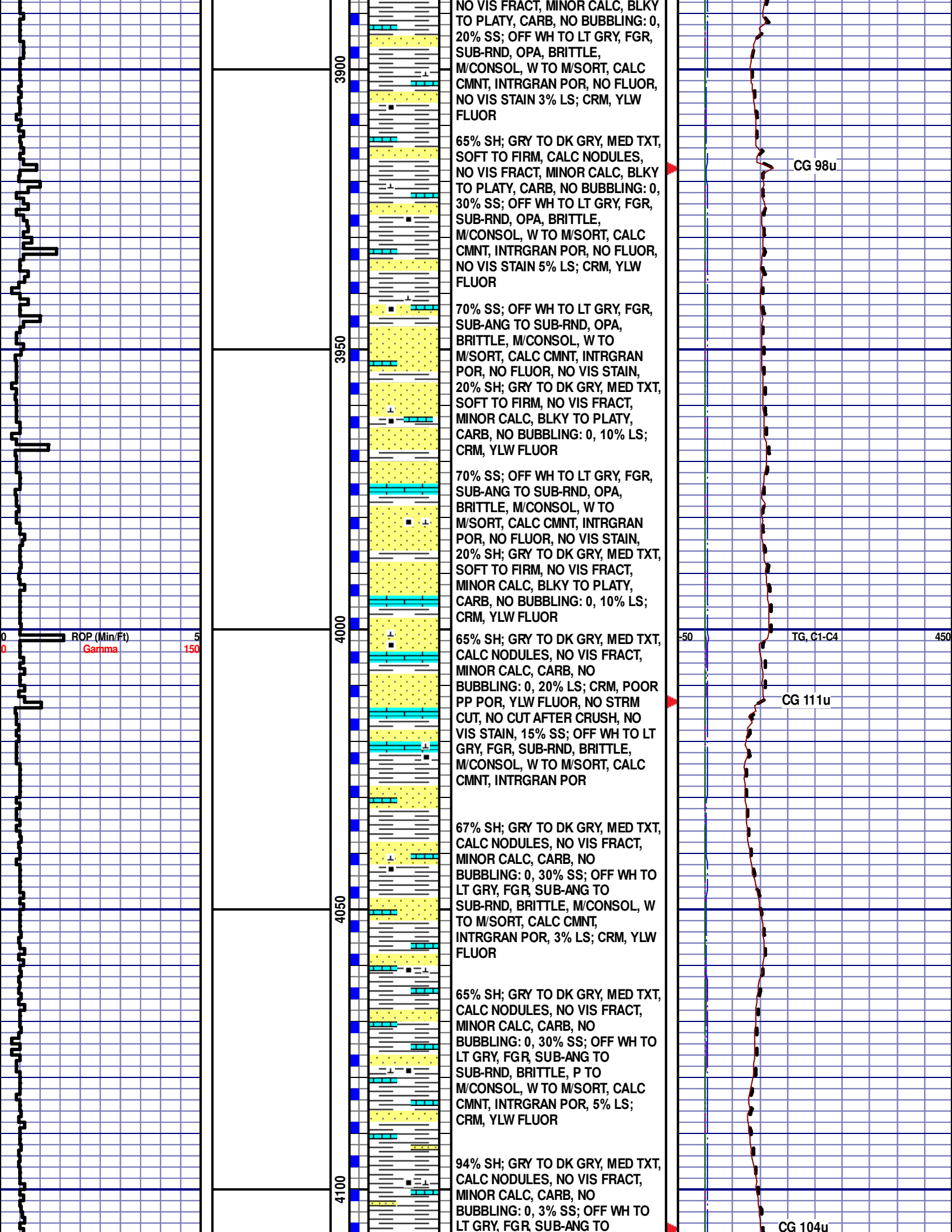
TONKAWA SANDS

3,838' MD 3,838' TVD (-2,511' SS)

94% SH; GRY TO DK GRY, MED TXT, SOFT TO FIRM, CALC NODULES, NO VIS FRACT, MINOR CALC, BLKY TO PLATY, CARB, NO BUBBLING: 0, 3% SS; OFF WH TO LT GRY, FGR, 3% LS; CRM, YLW FLUOR

77% SH; GRY TO DK GRY, MED TXT, SOFT TO FIRM, CALC NODULES,





3900
3950
4000
4050
4100

NO VIS FRACT, MINOR CALC, BLKY TO PLATY, CARB, NO BUBBLING: 0, 20% SS; OFF WH TO LT GRY, FGR, SUB-RND, OPA, BRITTLE, M/CONSOL, W TO M/SORT, CALC CMNT, INTRGRAN POR, NO FLUOR, NO VIS STAIN 3% LS; CRM, YLW FLUOR

65% SH; GRY TO DK GRY, MED TXT, SOFT TO FIRM, CALC NODULES, NO VIS FRACT, MINOR CALC, BLKY TO PLATY, CARB, NO BUBBLING: 0, 30% SS; OFF WH TO LT GRY, FGR, SUB-RND, OPA, BRITTLE, M/CONSOL, W TO M/SORT, CALC CMNT, INTRGRAN POR, NO FLUOR, NO VIS STAIN 5% LS; CRM, YLW FLUOR

70% SS; OFF WH TO LT GRY, FGR, SUB-ANG TO SUB-RND, OPA, BRITTLE, M/CONSOL, W TO M/SORT, CALC CMNT, INTRGRAN POR, NO FLUOR, NO VIS STAIN, 20% SH; GRY TO DK GRY, MED TXT, SOFT TO FIRM, NO VIS FRACT, MINOR CALC, BLKY TO PLATY, CARB, NO BUBBLING: 0, 10% LS; CRM, YLW FLUOR

70% SS; OFF WH TO LT GRY, FGR, SUB-ANG TO SUB-RND, OPA, BRITTLE, M/CONSOL, W TO M/SORT, CALC CMNT, INTRGRAN POR, NO FLUOR, NO VIS STAIN, 20% SH; GRY TO DK GRY, MED TXT, SOFT TO FIRM, NO VIS FRACT, MINOR CALC, BLKY TO PLATY, CARB, NO BUBBLING: 0, 10% LS; CRM, YLW FLUOR

65% SH; GRY TO DK GRY, MED TXT, CALC NODULES, NO VIS FRACT, MINOR CALC, CARB, NO BUBBLING: 0, 20% LS; CRM, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN, 15% SS; OFF WH TO LT GRY, FGR, SUB-RND, BRITTLE, M/CONSOL, W TO M/SORT, CALC CMNT, INTRGRAN POR

67% SH; GRY TO DK GRY, MED TXT, CALC NODULES, NO VIS FRACT, MINOR CALC, CARB, NO BUBBLING: 0, 30% SS; OFF WH TO LT GRY, FGR, SUB-ANG TO SUB-RND, BRITTLE, M/CONSOL, W TO M/SORT, CALC CMNT, INTRGRAN POR, 3% LS; CRM, YLW FLUOR

65% SH; GRY TO DK GRY, MED TXT, CALC NODULES, NO VIS FRACT, MINOR CALC, CARB, NO BUBBLING: 0, 30% SS; OFF WH TO LT GRY, FGR, SUB-ANG TO SUB-RND, BRITTLE, P TO M/CONSOL, W TO M/SORT, CALC CMNT, INTRGRAN POR, 5% LS; CRM, YLW FLUOR

94% SH; GRY TO DK GRY, MED TXT, CALC NODULES, NO VIS FRACT, MINOR CALC, CARB, NO BUBBLING: 0, 3% SS; OFF WH TO LT GRY, FGR, SUB-ANG TO

CG 98u

TG, C1-C4

CG 111u

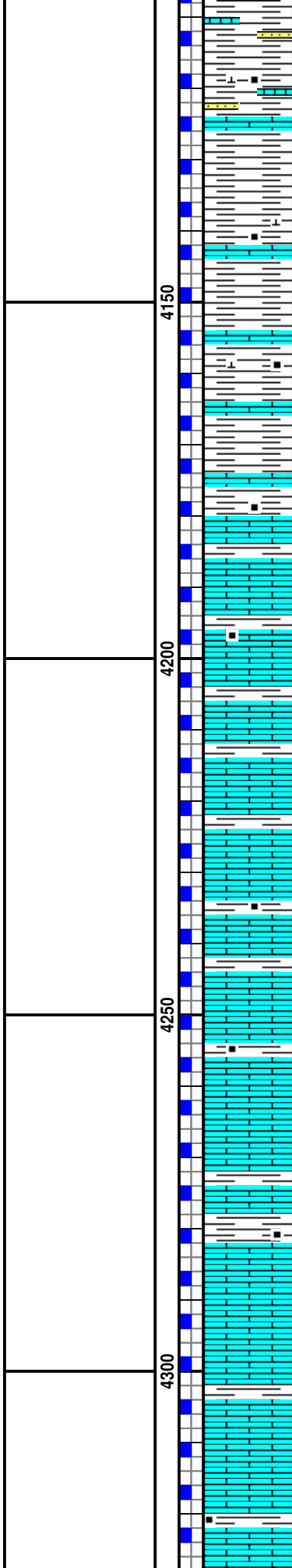
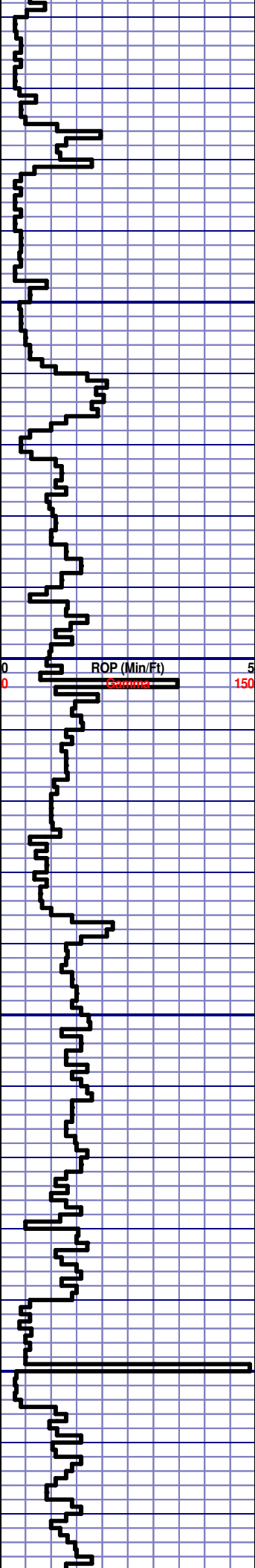
CG 104u

ROP (Min/Ft)
Gamma

5
150

-50

450



SUB-RND, BRITTLE, P TO M/CONSOL, W TO M/SORT, CALC CMNT, INTRGRAN POR, 3% LS; CRM, YLW FLUOR

LANSING KANSAS-CITY
4,133' MD 4,133' TVD (-2,806' SS)

89% SH; DK GRY TO BLK, MED TXT, CALC NODULES, NO VIS FRACT, MINOR CALC, CARB, NO BUBBLING: 0, 10% LS; CRM, YLW FLUOR, 3% SS; OFF WH TO LT GRY

70% SH; DK GRY TO BLK, EARTHY TXT, SOFT TO FIRM, NO VIS FRACT, MINOR CALC, BLKY TO PLATY, CARB, NO BUBBLING: 0, 30% LS; CRM, FINE XLN, CHALKY, SOFT TO BRITTLE, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN

70% LS; CRM, FINE XLN, CHALKY, SOFT TO BRITTLE, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN, 30% SH; DK GRY TO BLK, EARTHY TXT, SOFT TO FIRM, NO VIS FRACT, MINOR CALC, BLKY TO PLATY, CARB, NO BUBBLING: 0

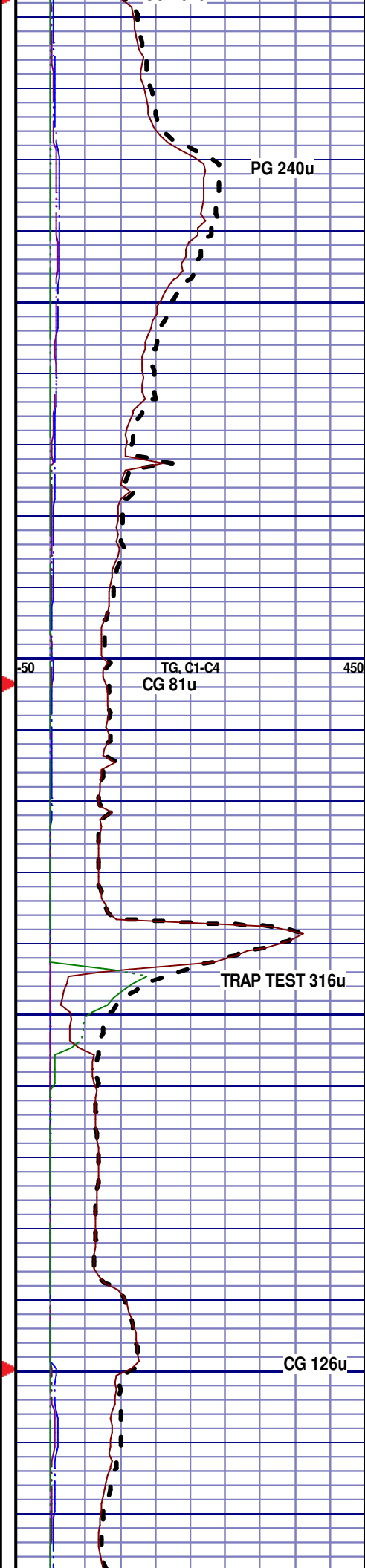
70% LS; BF TO CRM, MED XLN, BRITTLE, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN, 30% SH; DK GRY TO BLK, EARTHY TXT, FIRM, NO VIS FRACT, MINOR CALC, BLKY, CARB, NO BUBBLING: 0

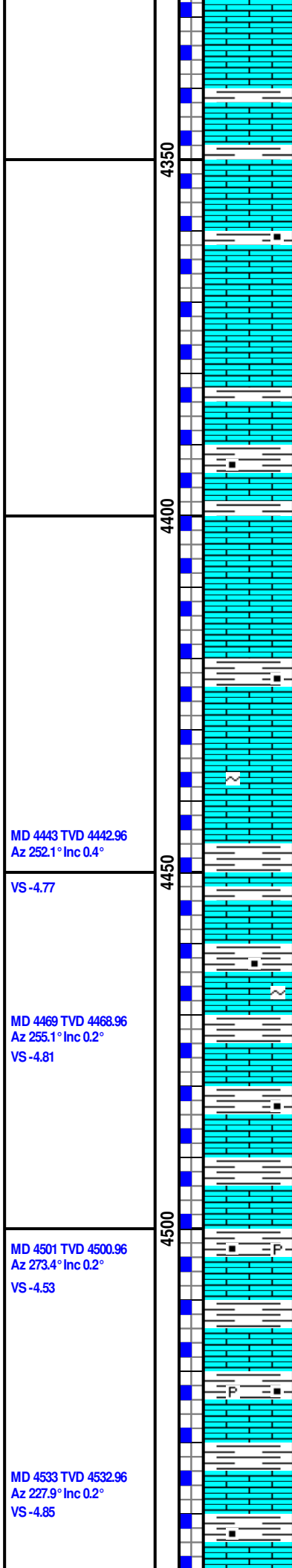
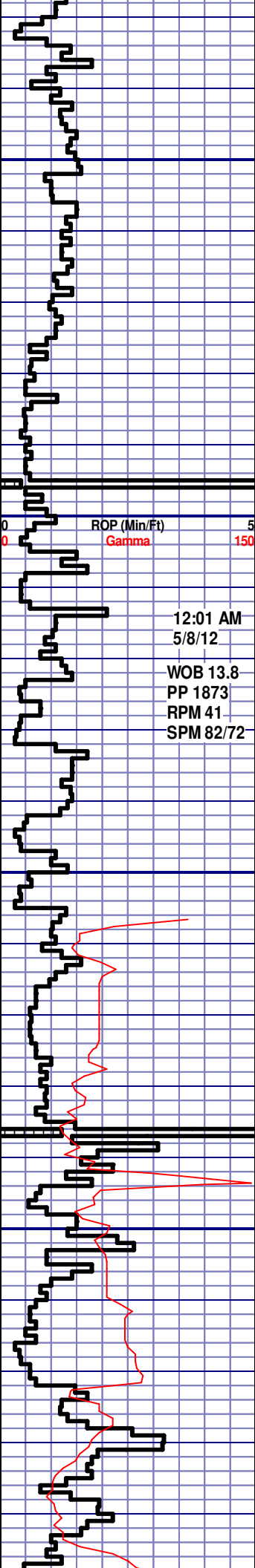
80% LS; BF TO CRM, MED XLN, BRITTLE, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN, 20% SH; DK GRY TO BLK, EARTHY TXT, FIRM, NO VIS FRACT, MINOR CALC, BLKY, CARB, NO BUBBLING: 0

75% LS; TAN TO BF, MED XLN, SOFT TO BRITTLE, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN, 25% SH; DK GRY TO BLK, EARTHY TXT, SOFT, NO VIS FRACT, MINOR CALC, BLKY TO PLATY, CARB, NO

HOGSHOOTER
4,289' MD 4,289' TVD (-2,962' SS)

80% LS; CRM TO LT GRY, MED XLN, BRITTLE TO HARD, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN, 20% SH; GRY TO BLK, EARTHY TXT, FIRM, NO VIS FRACT, BLKY TO PLATY, CARB, NO BUBBLING: 0





80% LS; CRM TO OFF WH, MED XLN, BRITTLE TO HARD, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN, 20% SH; DK GRY TO BLK, EARTHY TXT, FIRM, NO VIS FRACT, BLKY TO PLATY, CARB, NO BUBBLING: 0

80% LS; BF TO CRM, MED TO FINE XLN, HARD, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN, 20% SH; GRY TO BLK, EARTHY TXT, SOFT TO FIRM, NO VIS FRACT, BLKY TO PLATY, CARB, NO BUBBLING: 0

70% LS; BF TO CRM, MED XLN, SOFT TO BRITTLE, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN, 30% SH; GRY TO BLK, EARTHY TXT, SOFT TO FIRM, NO VIS FRACT, BLKY, CARB, NO BUBBLING: 0

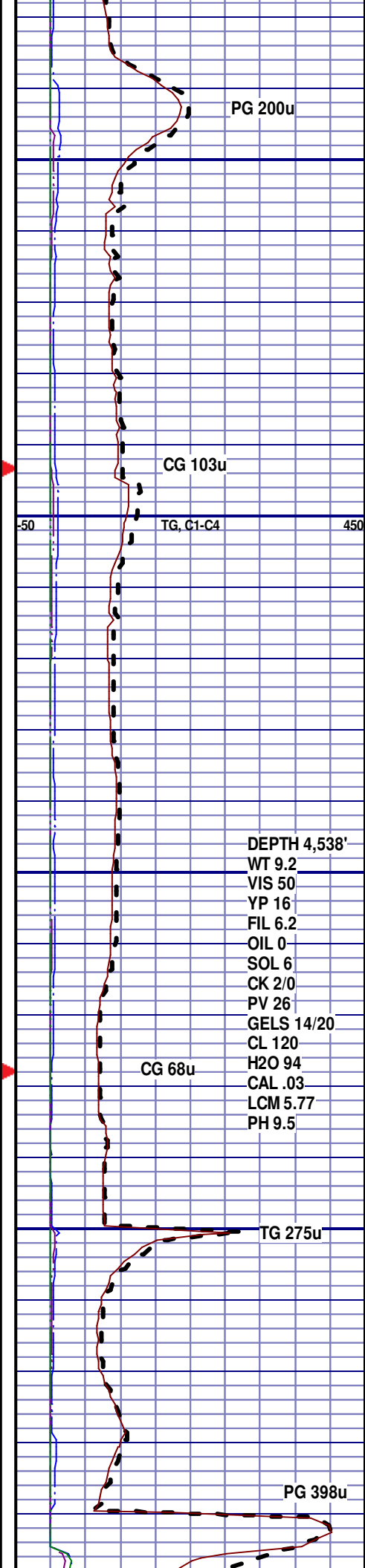
60% LS; BF TO OFF WH, MED XLN, BRITTLE, GLAUC INCLUS, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN, 40% SH; DK GRY TO BLK, EARTHY TXT, SOFT, NO VIS FRACT, BLKY TO PLATY, CARB, NO BUBBLING: 0

OSWEGO
4,449' MD 4,449' TVD (-3,122' SS)
60% LS; BF TO OFF WH, FINE XLN, SOFT TO BRITTLE, GLAUC INCLUS, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN, 40% SH; DK GRY TO BLK, EARTHY TXT, SOFT TO FIRM, NO VIS FRACT, BLKY TO PLATY, CARB, NO BUBBLING: 0

TOOH @ 03:00 AM ON 5/8/12 @ 4,501' MD TO PICK UP GAMMA TOOLS
TIH @ 10:00 AM
RESUMED DRILLING @ 12:15 PM ON 5/8/12. RE-RUN BIT #2

50% LS; OFF WH TO CRM, MED TO FINE XLN, CHALKY, BRITTLE, PYR INCLUS, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN, 50% SH; DK GRY TO BLK TO RED, MED TXT, SOFT TO FIRM, PYR NODULES, FRACT HEALED W/ PYR, MINOR CALC, BLKY TO PLATY, CARB, NO BUBBLING: 0

60% LS; OFF WH TO CRM, MED TO



ROP (Min/Ft) 5
Gamma 150
12:01 AM
5/8/12
WOB 13.8
PP 1873
RPM 41
SPM 82/72

MD 4443 TVD 4442.96
Az 252.1° Inc 0.4°

VS-4.77

MD 4469 TVD 4468.96
Az 255.1° Inc 0.2°
VS-4.81

MD 4501 TVD 4500.96
Az 273.4° Inc 0.2°
VS-4.53

MD 4533 TVD 4532.96
Az 227.9° Inc 0.2°
VS-4.85

PG 200u

CG 103u

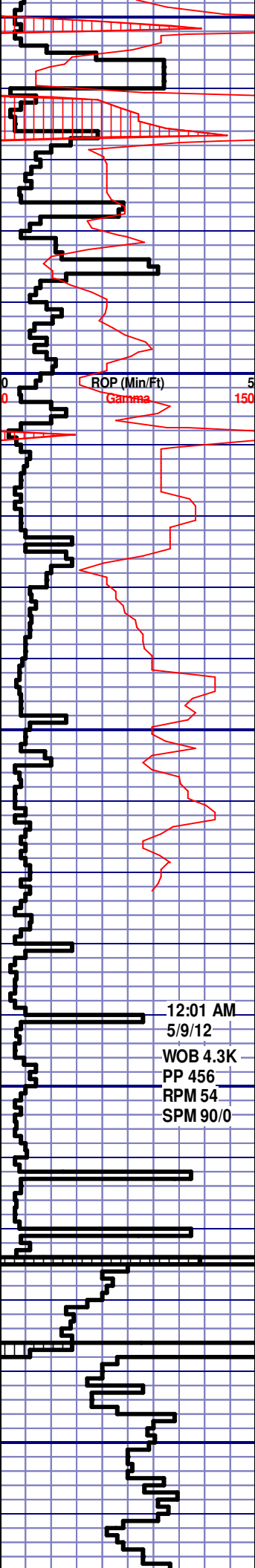
TG, C1-C4

DEPTH 4,538'
WT 9.2
VIS 50
YP 16
FIL 6.2
OIL 0
SOL 6
CK 2/0
PV 26
GELS 14/20
CL 120
H2O 94
CAL .03
LCM 5.77
PH 9.5

CG 68u

TG 275u

PG 398u



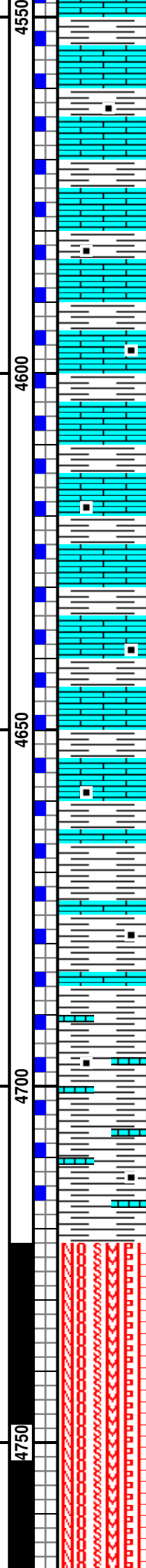
MD 4564 TVD 4563.96
Az 231.6° Inc 0.4°
VS -4.95

MD 4596 TVD 4595.96
Az 241.7° Inc 0.5°
VS -5.09

MD 4628 TVD 4627.96
Az 218.5° Inc 0.5°
VS -5.27

MD 4660 TVD 4659.96
Az 210.7° Inc 0.6°
VS -5.52

12:01 AM
5/9/12
WOB 4.3K
PP 456
RPM 54
SPM 90/0



FINE XLN, CHALKY, HARD, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN, 40% SH; BLK TO DK GRY, MED TXT, SOFT TO FIRM, MINOR CALC, BLKY TO PLATY, CARB. NO BUBBLING: 0

CHEROKEE
4,570' MD 4,570' TVD (-3,243' SS)

60% LS; OFF WH TO CRM, MED TO FINE XLN, CHALKY, HARD, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN, 40% SH; BLK TO DK GRY, MED TXT, SOFT TO FIRM, MINOR CALC, BLKY TO PLATY, CARB, NO BUBBLING: 0

60% LS; OFF WH TO CRM, MED TO FINE XLN, CHALKY, HARD, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN, 40% SH; BLK TO DK GRY, MED TXT, SOFT TO FIRM, MINOR CALC, BLKY TO PLATY, CARB, NO BUBBLING: 0

50% LS; OFF WH TO CRM, MED TO FINE XLN, CHALKY, HARD, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN, 50% SH; LT GRY TO DK GRY TO BLK, MED TXT, SOFT TO FIRM, MINOR CALC, BLKY TO PLATY, CARB, NO BUBBLING: 0

70% SH; LT GRY TO DK GRY TO BLK TO RED, MED TXT, CALC NODULES, SOFT TO FIRM, MINOR CALC, BLKY TO PLATY, CARB, NO BUBBLING: 0, 30% LS; OFF WH TO CRM, MED TO FINE XLN, CHALKY, HARD, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN

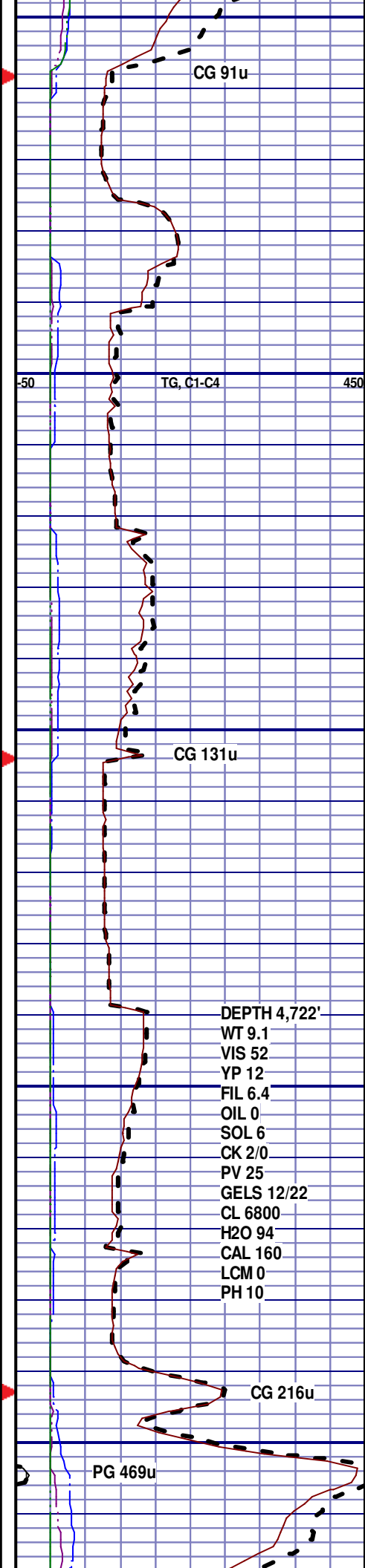
95% SH; LT GRY TO DK GRY TO RED, MED TXT, CALC NODULES, SOFT TO FIRM, MINOR CALC, BLKY TO PLATY, CARB, NO BUBBLING: 0, 5% LS; OFF WH TO CRM, MED TO FINE XLN, CHALKY, HARD, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN

TOOH @ 7:45 PM ON 5/8/12 @ 4,722' MD TO LAY DOWN CORING BIT AND MOTOR
TIH @ 6:00 AM ON 5/9/12

MISSISSIPPI
4,730' MD 4,730' TVD (-3,403' SS)

BEGAN CORING @ 1:00 PM ON 5/9/12 @ 4,722' MD W/BIT #3 SIZE: 8.75" TYPE: 406C SERIAL: 7134556 JETS: 5/16 IN

NO SAMPLE AVAILABLE DUE TO CORING PROCESS



CG 91u

TG, C1-C4

CG 131u

DEPTH 4,722'
WT 9.1
VIS 52
YP 12
FIL 6.4
OIL 0
SOL 6
CK 2/0
PV 25
GELS 12/22
CL 6800
H2O 94
CAL 160
LCM 0
PH 10

CG 216u

PG 469u

12:01 AM
5/10/12
WOB 7.1K
PP 515
RPM 51
SPM 89/0

ROP (Min/Ft)
Gamma

NO SAMPLE AVAILABLE DUE TO CORING PROCESS

NO SAMPLE AVAILABLE DUE TO CORING PROCESS

TOOH @ 7:00 PM ON 5/9/12 @ 4,819' MD TO REPLACE CRACKED CORE BARREL

TIH @ 6:00 AM ON 5/10/12

RESUMED DRILLING @ 9:00 AM ON 5/10/12 @ 4,819' MD. RE-RUN BIT #3

NO SAMPLE AVAILABLE DUE TO CORING PROCESS

TOOH @ 2:00 PM ON 5/10/12 @ 4,849' MD TO REMOVE CORE

TIH @ 7:30 PM ON 5/10/12

RESUMED DRILLING @ 10:30 PM ON 5/10/12 @ 4,849' MD. RE-RUN BIT #2

60% SH; GRY TO DK GRY, EARTHY TXT, SOFT TO FIRM, NO VIS FRACT, MINOR CALC, BLKY TO PLATY TO FISS, NO BUBBLING: 0, 39% LS; OFF WH TO CRM, FINE TO VF XLN, BRITTLE, FOSSL FRAGS, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN, 1% CHT; MLKY WH

59% SH; GRY TO DK GRY, EARTHY TXT, SOFT TO FIRM, NO VIS FRACT, MINOR CALC, BLKY TO PLATY TO FISS, NO BUBBLING: 0, 40% LS; OFF WH TO CRM, FINE TO VF XLN, BRITTLE, FOSSL FRAGS, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN, 1% CHT; MLKY WH

50% SH; GRY TO DK GRY, EARTHY TXT, SOFT TO FIRM, NO VIS FRACT, MINOR CALC, BLKY TO PLATY TO FISS, NO BUBBLING: 0, 49% LS; OFF WH TO CRM, FINE TO VF XLN, BRITTLE, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN, 1% CHT; MLKY WH

59% SH; GRY TO DK GRY, EARTHY TXT, SOFT TO FIRM, NO VIS FRACT, MINOR CALC, BLKY TO PLATY TO FISS, NO BUBBLING: 0, 40% LS; OFF WH TO CRM, FINE TO VF XLN, BRITTLE, POOR PP POR, YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN, 1% CHT; MLKY WH

64% DOL; OFF WH TO CRM, FINE XLN, BRITTLE, POOR PP POR, TRC YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN,

DEPTH 4,824'
WT 9.1
VIS 57
YP 19
FIL 5.2
OIL 0
SOL 6
CK 2/0
PV 20
GELS 12/22-450
CL 7100
H2O 94
CAL 200
LCM 0
PH 10.5

-50

TG, C1-C4

TG 163u

CG 67u

CG 56u

AGITATOR MOTOR BURNED OUT. NO REPLACEMENT ON HAND

CG 55u

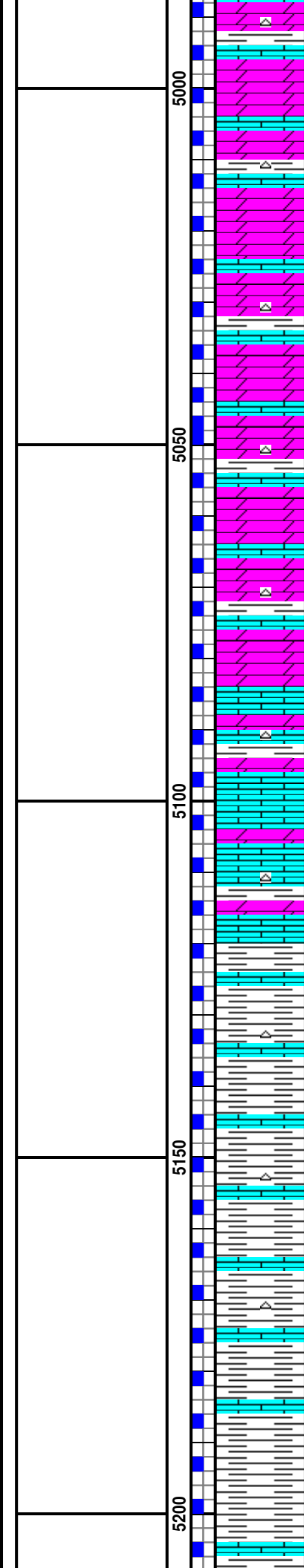
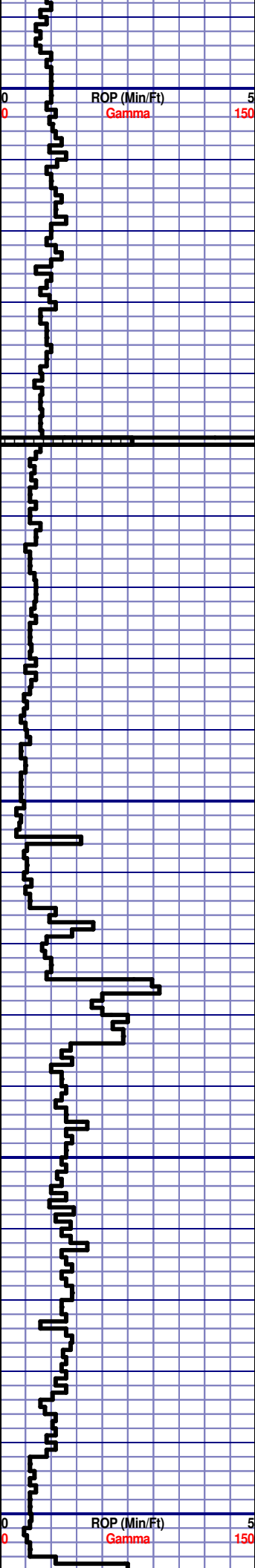
AGITATOR MOTOR

4800

4850

4900

4950



20% LS; OFF WH TO CRM, FINE XLN, BRITTLE, POOR PP POR, TRC YLW FLUOR, NO VIS STAIN, 15% SH; GRY TO DK GRY, EARTHY TXT, SOFT TO FIRM, NO VIS FRACT, MINOR CALC, BLKY TO PLATY, NO BUBBLING: 0, 1% CHT; MLKY WH

80% DOL; OFF WH TO CRM, FINE XLN, BRITTLE, POOR PP POR, TRC YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN, 10% LS; OFF WH TO CRM, FINE XLN, BRITTLE, POOR PP POR, TRC YLW FLUOR, NO VIS STAIN, 9% SH; GRY TO DK GRY, SOFT TO FIRM, MINOR CALC, BLKY TO PLATY, NO BUBBLING: 0, 1% CHT; MLKY WH

80% DOL; OFF WH TO CRM, FINE XLN, BRITTLE, POOR PP POR, TRC YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN, 10% LS; OFF WH TO CRM, FINE XLN, BRITTLE, POOR PP POR, TRC YLW FLUOR, NO VIS STAIN, 9% SH; GRY TO DK GRY, EARTHY TXT, SOFT TO FIRM, NO VIS FRACT, MINOR CALC, BLKY TO PLATY, NO BUBBLING: 0, 1% CHT; MLKY WH

57% LS; OFF WH TO CRM, FINE XLN, BRITTLE, POOR PP POR, TRC YLW FLUOR, NO STRM CUT, NO CRUSH, 30% DOL; OFF WH TO CRM, FINE XLN, BRITTLE, POOR PP POR, TRC YLW FLUOR, NO STRM CUT, NO CRUSH, 10% SH; GRY TO DK GRY, SOFT TO FIRM, MINOR CALC, BLKY TO PLATY, NO BUBBLING: 0, 3% CHT; MLKY WH

67% SH; GRY TO DK GRY TO BLK, EARTHY TXT, SOFT TO FIRM, NO VIS FRACT, MINOR CALC, BLKY TO PLATY, NO BUBBLING: 0, 30% LS; OFF WH TO CRM, FINE XLN, BRITTLE, POOR PP POR, TRC YLW FLUOR, NO STRM CUT, NO CRUSH, 3% CHT; MLKY WH

74% SH; GRY TO DK GRY TO BLK, EARTHY TXT, SOFT TO FIRM, NO VIS FRACT, MINOR CALC, BLKY TO PLATY, NO BUBBLING: 0, 25% LS; OFF WH TO CRM, FINE XLN, BRITTLE, POOR PP POR, TRC YLW FLUOR, NO STRM CUT, NO CRUSH, 1% CHT; MLKY WH

90% SH; GRY TO DK GRY TO BLK, EARTHY TXT, SOFT TO FIRM, NO VIS FRACT, MINOR CALC, BLKY TO PLATY, NO BUBBLING: 0, 10% LS; OFF WH TO CRM, FINE XLN, BRITTLE, POOR PP POR, TRC YLW FLUOR, NO STRM CUT, NO CUT AFTER CRUSH, NO VIS STAIN

AGITATOR MOTOR BURNED OUT. NO REPLACEMENT ON HAND AND BYPASSING SHAKERS

TG, C1-C4

CG 58u

CG 55u

AGITATOR MOTOR BURNED OUT. NO REPLACEMENT ON HAND AND BYPASSING SHAKERS

TG, C1-C4

DEPTH 5,246'

AFTER CRUSH, NO VIS STAIN

90% SH; GRY TO DK GRY TO BLK,
EARTHY TXT, SOFT TO FIRM, NO
VIS FRACT, MINOR CALC, BLKY TO
PLATY, NO BUBBLING: 0, 10% LS;
OFF WH TO CRM, FINE XLN,
BRITTLE, POOR PP POR, TRC YLW
FLUOR, NO STRM CUT, NO CUT
AFTER CRUSH, NO VIS STAIN

WT 9.1
VIS 63
YP 23
FIL 8
OIL 0
SOL 6
CK 2/0
PV 19
GELS 14/24
CL 4200
H2O 94
CAL 120
LCM 12
PH 10

CG 56u

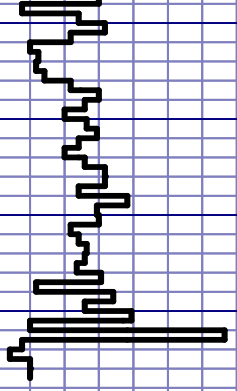
BOTTOMS-UP GAS 56u

PILOT TD @ 5,247' MD

RELEASED FROM
PILOT ON 5/13/12

THANK YOU FROM
AUSTIN BROWN AND
NOMAC SERVICES,
LLC.

5250



DRILLER'S TD @ 5,247'
MD @ 11:00 AM ON
5/11/12

12:01 AM
5/12-13/12