



MID CONTINENT WELL LOGGING SERVICE, 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

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

Well Name: NANCY 3507 1-10 SANDRIDGE ENERGY INC.
Location: Section 10, T35S, R7W
License Number: 15-077-21945-00-00 Region: HARPER CO. KS.
Spud Date: 07/14/2013 Drilling Completed: 7/19/2013
Surface Coordinates: SHL: 1,945' FSL & 2,060' FEL of Section 10, T35S, R7W
Bottom Hole REPORT FOR: TAMMY ALCORN
Coordinates: LOGGERS: BILL LARZELERE, STEPHEN MEDER
Ground Elevation (ft): 1,301' K.B. Elevation (ft): 1,319'
Logged Interval (ft): 3,300' To: 5,360' Total Depth (ft): 5,360'
Formation:
Type of Drilling Fluid: NATIVE MUD

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Sandridge Energy, INC.
Address: 123 Robert S. Kerr Avenue, Ste. 2430
Oklahoma City, Oklahoma 73102-6406

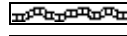
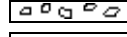
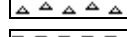
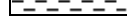
GEOLOGIST

Name: TAMMY ALCORN
Company: Sandridge Energy, Inc
Address: 123 Robert S. Kerr Avenue, Ste. 2430
Oklahoma City, Oklahoma 73102-6406

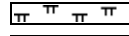
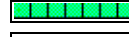
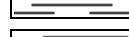
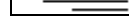
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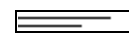
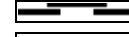
LOGGERS: KEVIN MARGRAVE, STEPHEN MEDER
SANDRIDGE ENERGY INC, HORIZON #5, AES DRILLING FLUIDS

ROCK TYPES

 Sndylm
 Anhy
 Bent
 Brec
 Cht
 Clyst

 Coal
 Leach
 Congl
 Dol
 Gyp
 Igne

 Lmst
 Meta
 Mrlst
 Salt
 Shale
 Shcol

 Shgy
 Ss
 Till
 Hotsh
 Sltst

ACCESSORIES

MINERAL

 Anhy
 Arggrn
 Arg
 Bent
 Bit
 Brecfrag
 Calc
 Carb
 Chtdk
 Chtlt
 Dol
 Feldspar
 Ferrpel
 Ferr
 Glau
 Gyp
 Hvymin
 Kaol
 Marl

 Minxl
 Nodule
 Phos
 Pyr
 Salt
 Sandy
 Silt
 Sil
 Sulphur
 Tuff

FOSSIL

 Algae
 Amph
 Belm
 Bioclst
 Brach
 Bryozoa
 Cephal
 Coral

 Crin
 Echin
 Fish
 Foram
 Fossil
 Gastro
 Oolite
 Ostra
 Pelec
 Pellet
 Pisolite
 Plant
 Strom

STRINGER

 Anhy
 Arg
 Bent
 Coal
 Dol

 Gyp
 Ls
 Mrst
 Ssstrg
 Sltstrg

TEXTURE

 Boundst
 Chalky
 Cryxln
 Earthy
 Finexln
 Grainst
 Lithogr
 Microxln
 Mudst
 Packst
 Wackest

OTHER SYMBOLS

POROSITY

 Earthy
 Fenest
 Fracture
 Inter
 Moldic
 Organic
 Pinpoint
 Vuggy
 New symbol

 New symbol
 Sndylm
 New symbol

SORTING

 Well
 Moderate
 Poor

ROUNDING

 Rounded
 Subrnd
 Subang
 Angular

OIL SHOW

 Even
 Spotted
 Ques

 Dead

INTERVAL

 Core
 Dst

EVENT

 Rft
 Sidewall

[illegible]

WT/8.9 VIS/52

SVY @ 3,495' DEG
1.1

WT/8.9 VIS/50

WOB: 13.2
RPM: 89
GPM: 419
SPP: 1685

WT/8.9 VIS/49

ROP (min/ft) 10
GIR (API) 150

3450

3500

3550

3600

50

BASE HEEBNER @
3,470' MD (-2,151')

SH: MSTLY BLK, SME GRY-
DRK GRY, CHNKY, SME
BLKY, PRED MOD FRM- MOD
SFT, ROUGH TXT, SME SLTY
TXT, TR LS IN SMPLE, NO
FLOR, NO CUT, NO RES RNG

SH: PRED GRY- LT GRY, OCC
BLK, PRED CHNKY- BLKY,
MOD FRM, SME SFT, MSTLY
SLTY TXT, LS: MSTLY CRM-
TN, SME OFF WHI, PRED
VRY FN- FN XLN, PRED
PLTY- BLKY, HL FRAC POR,
PRED MOD FRM- FRM, NO
FLOR, NO CUT, NO RES RNG

SH: MSTLY GRY, SME LT
GRY, OCC DRK GRY, MSTLY
CHNKY, SME BLKY, PRED
MOD FRM, SME SFT, PRED
SLTY TXT, LS: PRED CRM-
TN, SME OFF WHI- WHI,
MSTLY FN XLN, OCC VRY FN
XLN, PLTY- BLKY, HL FRAC
POR, NO FLOR, NO CUT, NO
RES RNG

SH: PRED GRY- LT GRY,
PRED CHNKY- BLKY, MSTLY
SLTY TXT, MOD FRM- FRM,
SME SFT, LS: PRED CRM,
SME LT TN, PRED FN XLN,
SME VRY FN XLN, PLTY-
BLKY, NO FLOR, NO CUT, NO
RES RNG

KD 14 U CG

KD 12 U CG

KD 92 U CG

KD 29 U CG

KD

KD 21 U CG

KD

Band Ridge Energy Inc. Nancy 3507 14000 FLUOROMETER1000

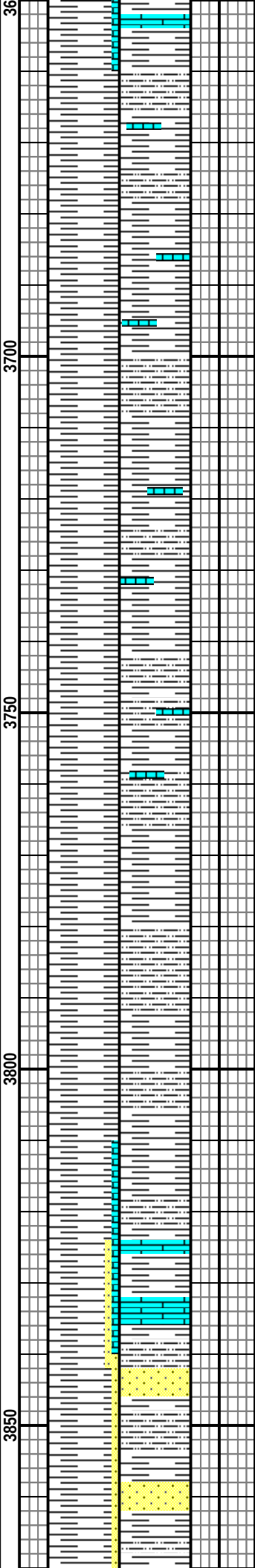
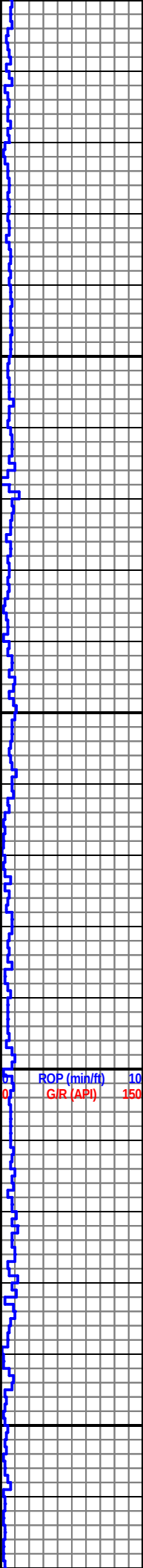
7/18/2013 @
3,700'

WT/9.0 VIS/47

WT/9.0 VIS/44

WOB:12.8
RPM: 90
GPM: 426
SPP: 1675

WT/9.0 VIS/45



SH: MSTLY LT GRY- GRY,
MSTLY SLTY TXT, BLKY-
CHNKY, PRED MOD FRM-
MOD SFT, SME SFT, TR OF
LS, NO FLOR, NO CUT, NO
RES RNG

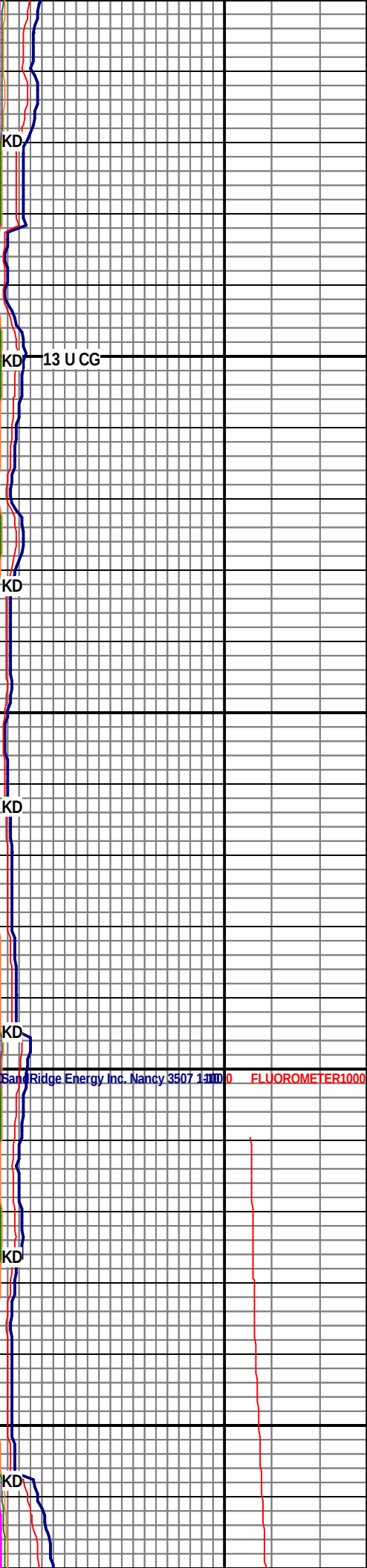
SH: PRED GRY, SME LT GRY,
OCC DRK GRY, PRED WXY
TXT, SME SLTY TXT, BLKY,
SME CHNKY, MOD FRM- MOD
SFT, SME SFT, TR OF LS, NO
FLOR, NO CUT, NO RES RNG

SH: MSTLY GRY- LT GRY,
PRED SLTY TXT, SME WXY
TXT, PRED FRM- MOD FRM,
SME SFT, BLKY- CHNKY, TR
LS IN SMPLE, NO FLOR, NO
CUT, NO RES RNG

SH: PRED GRY, SME LT GRY,
MSTLY SLTY TXT, OCC WXY
TXT, PRED BLKY- CHNKY,
FRM- MOD FRM, SME SFT, TR
LS IN SMPLE, NO FLOR, NO
CUT, NO RES RNG

LANSING @ 3,837'
MD (-2,518')

SH: MSTLY GRY- LT GRY,
OCC DRK GRY, PRED SLTY
TXT, SME WXY, BLKY



WT/9.0 VIS/45

WT/9.1 VIS/45

SVY @ 3,996'
DEG 1.1

WOB: 11.7
RPM: 83
GPM: 425
SPP: 1771

ROP (min/ft) 10
GIR (API) 150

3900
3950
4000
4050

TXI, SME WXY, BLKY-
CHNKY, FRM- MOD FRM, SME
SS IN SMPLE, NO FLOR, NO
CUT, NO RES RNG

SS: PRED CLR- OPQ, SME LT
GRY- LT TN, PRED VRY FN
GRNS, SME FN GRNS, RND-
SUB RND, WELL SORT, SH:
PRED GRY- LT GRY, PRED
SLTY, BLKY- CHNKY, NO
FLOR, NO CUT, NO RES RNG

SH: MSTLY LT GRY, SME
GRY, MSTLY SLTY, PRED
BLKY- CHNKY, SS: MSTLY
CLR- OPQ, SME LT TN- LT
GRY, VRY FN- FN GRNS,
RNG- SUB RND, WELL SORT,
NO FLOR, NO CUT, NO RES
RNG

SH: PRED GRY, SME LT GRY,
PRED SLTY, SME WXY,
BLKY, SME CHNKY, SS:
PRED CLR- OPQ, VRY FN
GRNS, SME FN GRNS, SUB
RND- RND, WELL SORT, NO
FLOR, NO CUT, NO RES RNG

SH: MSTLY GRY- LT GRY,
PRED SLTY, SME WXY,
BLKY- CHNKY, TR OF SS, NO
FLOR, NO CUT, NO RES RNG

KD 22 U CG

68 U FG

KD 34 U CG

KD 19 U CG

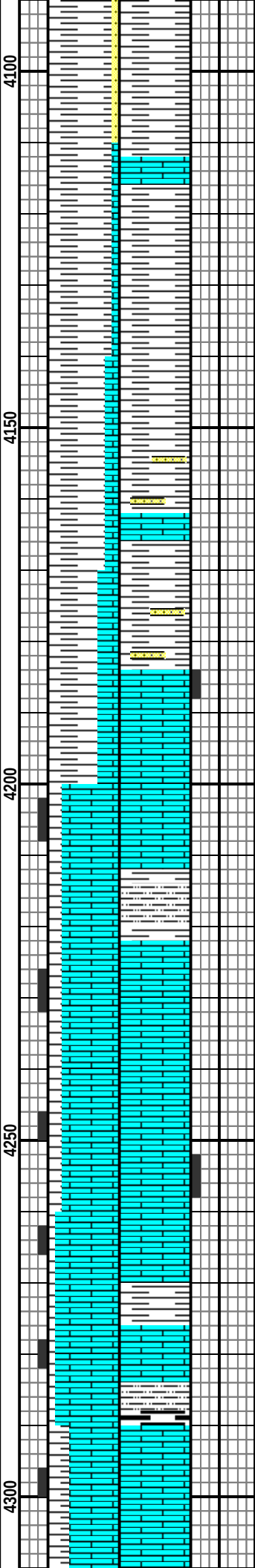
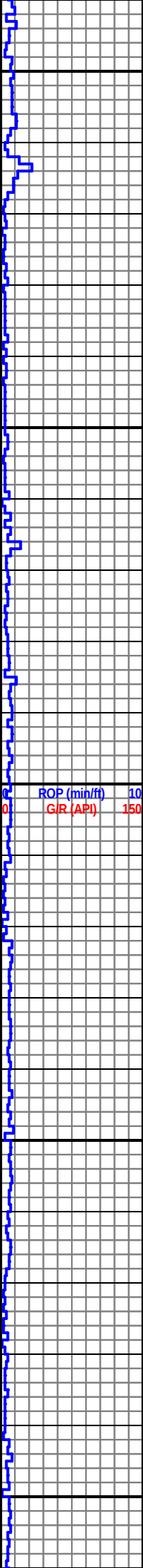
KD 18 U CG

KD

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WT/8.9 VIS/49

WOB: 15.3K
RPM: 74
GPM: 418
SPP: 1705



**COTTAGE GROVE @
4,112' MD (-2,793')**

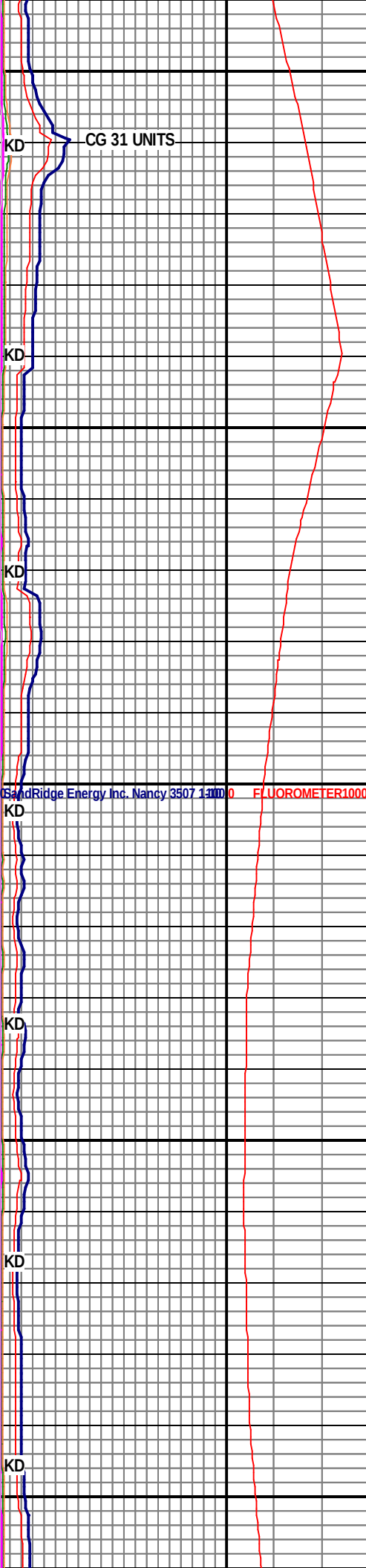
SH: PRED DRK GRY TO BLK,
SME GRY, BLKY, TR PLTY,
PRED SMTH SLTY TXT, SLI
TR SUBWXY TXT, MOD SFT
TO SFT, SME MOD FRM, TR
LT TAN TO TAN LS
STRNGRS, NO VIS FLOR

SH: PRED DRK GRY TO GRY,
SME BLK, BLKY, TR PLTY,
SMTH SLTY TXT, MOD SFT
TO SFT, SME MOD FRM,
INCRNG LS: PRED LT TAN
TO TAN, BLKY, RND TO
SUBRND, SME SUBANG, V
FN XLN, FRM TO V FRM, TR
PP VUG POR, SS STRNGRS
THRU OUT, SME DULL YEL
FLOR THRU OUT, NO VIS
CUT, NO RES RING

LS: PRED LT TAN TO TAN,
SME OFF WHT TO LT GRY,
TR MTTLD GRY-TAN, BLKY,
TR PLTY, RND TO SUBRND,
TR SUBANG, V FN XLN, FRM
TO V FRM, TR MOD HRD TO
HRD, SME PP VUG POR, SH:
PRED LT GRY TO GRY, TR
DRK GRY, BLKY, SMTH SLTY
TXT, MOD SFT TO MOD FRM,
TR YEL TO BRI YEL FLOR,
NO VIS CUT, NO RES RING

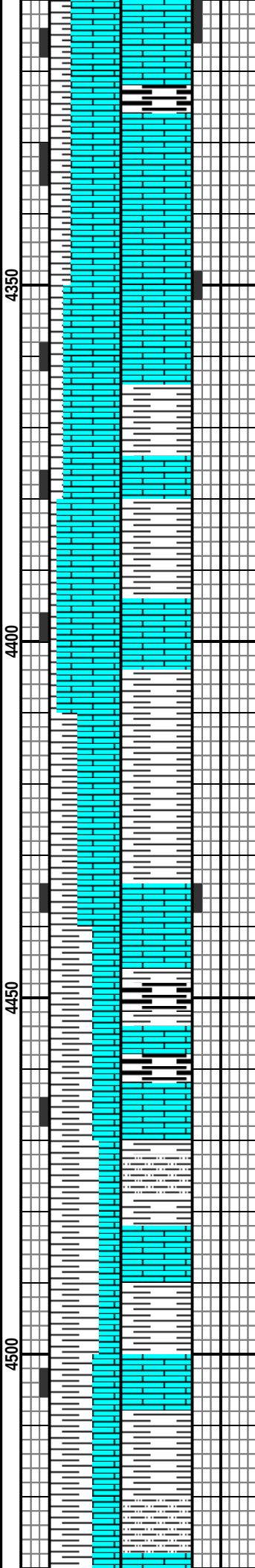
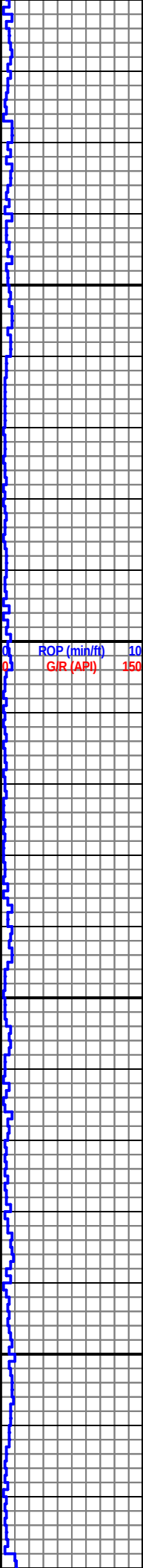
LS: MSTLY LT TAN TO TAN,
SME LT GRY, TR MTTLD
GRY-TAN, BLKY, RND TO
SUBRND, V FN TO FN XLN, V
FRM TO FRM, PR INTERXLN
POR, TR PP POR, DCRNG SH
TO TR LT GRY TO GRY SH,
TR BRI YEL FLOR, NO VIS
CUT, NO RES RING

LS: PRED LT TAN TO TAN,
SME OFF WHT TO LT GRY.



WT: 9.3
VIS: 48

WOB: 10.8K
RPM: 75
GPM: 415
SPP: 1802



BLKY, RND TO SUBRND,
SME SUBANG, V FN XLN, V
FRM TO MOD HRD, SME
FRM, SME PP VUG POR,
INCRNG SH: PRED LT GRY
TO GRY, SME DRK GRY TO
BLK, BLKY, SME PLTY, SMTH
SLTY TXT, TR SUBWXY TXT,
MOD SFT TO MOD FRM, TR
FRM, SLI TR YEL TO BRI YEL
FLOR, NO VIS CUT, NO RES
RING

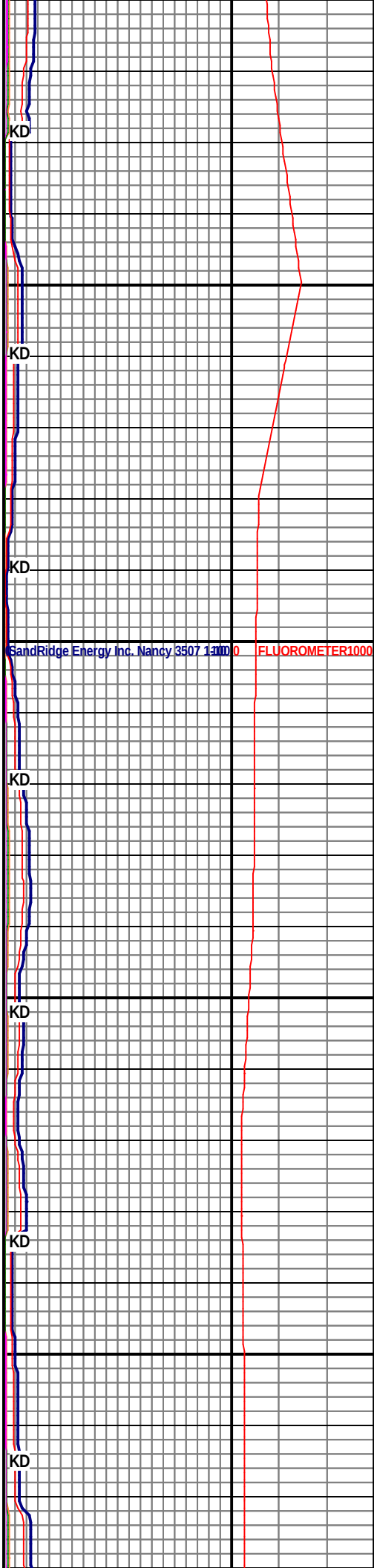
LS: MSTLY LT TAN TO TAN,
SME OFF WHT, TR MTTLD
GRY-TAN, SME SNDY TXT,
BLKY, SUBANG TO SUBRND,
V FN TO FN XLN, FRM TO V
FRM, TR MOD HRD TO HRD,
PR INTERXLN POR, TR PP
POR, SH: PRED LT GRY TO
GRY, SME BLK, BLKY, SMTH
SLTY TXT, FRM TO MOD
FRM, SME MOD SFT, V SLI
TR BRI YEL FLOR, NO VIS
CUT, NO RES RING

LS: PRED LT TAN TO TAN,
BLKY, TR PLTY, SUBRND TO
SUBANG, TR ANG, V FN XLN,
FRM TO V FRM, PR
INTERXLN POR, TR PP POR,
SH: PRED DRK GRY TO GRY,
OCC BLK, SME RD-BRN, TR
LT BLU-GRN, BLKY, SMTH
SLTY TXT, MOD FRM TO
FRM, SME MOD SFT, TR
DULL YEL TO YEL FLOR, NO
VIS CUT, NO RES RING

**OSWEGO @ 4,462'
MD (-3,143)**

SH: PRED RD-BRN, OCC DRK
GRY TO BLK, SME LT GRY
TO GRY, TR BLU-GRN, BLKY,
TR PLTY, SMTH SLTY TXT,
MOD SFT TO SFT, SME MOD
FRM TO FRM, LS: MSTLY LT
TAN TO TAN, SME OFF WHT,
SME SNDY TXT, BLKY,
SUBANG TO SUBRND, V FN
XLN, FRM TO V FRM, SME
PP VUG POR, NO VIS FLOR,
NO CUT, NO RES RING

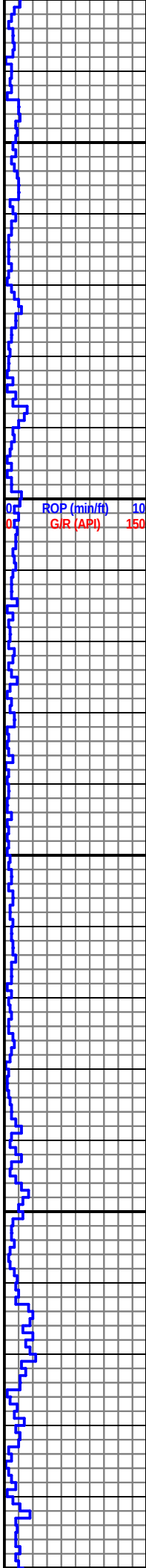
LS: PRED LT GRY TO LT TAN,
OCC TAN, SME MTTLD
GRY-TAN, SME SNDY TXT,
BLKY, SUBANG TO SUBRND,
V FN XLN, FRM TO V FRM,
SME MOD HRD TO HRD, TR
PP POR, SH: PRED GRY TO
DRK GRY, SME BLK, SME



SVY @ 4,495' DEG
0.2

WOB: 15.6K
RPM: 68
GPM: 360
SPP: 1444

WT: 9.4
VIS:49



CHEROKEE @ 4,570'
MD (-3,251')

LS: PRED LT TAN TO TAN,
OCC LT GRY TO OFF WHT,
SME SNDY TXT, BLKY,
SUBANG TO SUBRND, V FN
XLN, V FRM TO MOD HRD,
SME PP VUG POR, SH:
PRED DRK GRY TO BLK,
SME LT GRY TO GRY, SMTH
SLTY TXT, SME SUBWXY
TXT, BLKY, MOD FRM TO
FRM, SME MOD SFT, TR PYR,
TR OPQ TO WHT CHRT, NO
VIS FLOR, NO CUT, NO RES
RING

SH: PRED LT GRY TO GRY,
OCC DRK GRY TO BLK, SME
RD-BRN, BLKY, SMTH SLTY
TXT, TR SUBWXY TXT, MOD
SFT TO SFT, SME MOD FRM
TO FRM, DCRNG LS: PRED
LT TAN TO TAN, SME OFF
WHT, TR SNDY TXT, BLKY,
SUBANG TO SUBRND, V FN
XLN, FRM TO V FRM, TR PP
POR, SLI TR YEL TO GLD
FLOR, NO VIS CUT, NO RES
RING

SH: PRED GRY TO DRK GRY, SME BLK, SMTH SLTY TXT, TR SUBWXY TXT, BLKY, TR PLTY, MOD FRM TO FRM, SME MOD SFT, DCRNG LS: PRED LT TAN TO TAN, SME LT GRY TO OFF WHT, TR SNDY TXT, BLKY, SUBANG TO SUBRND, V FN XLN, FRM TO V FRM, TR PP POR, NO VIS FLOR, NO CUT, NO RES RING

SH: PRED GRY TO DRK GRY,
OCC RD-BRN, SME LT
BLU-GRN, SLTY TXT, SME
SUBWXY TXT, BLKY, MOD
FRM TO FRM, SME MOD SFT
TO SFT, LT TAN TO TAN LS
STRNGRS THRU OUT, NO
VIS FLOR, NO CUT, NO RES
RING

KD

SandRidge Energy Inc. Nancy 3507 1-1000	0	FLUOROMETER1000
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KD

KD

KD

FG 39 UNITS

KD

20 SEC GAS TEST
@ TRAP - 70 UNITS

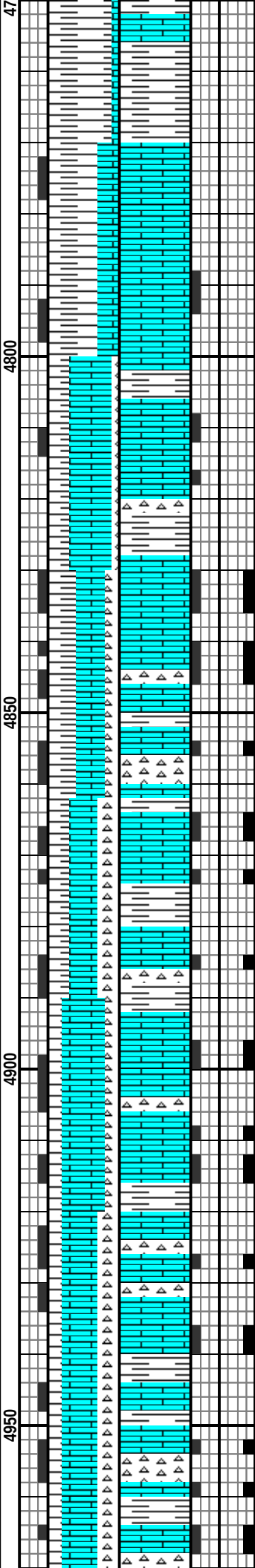
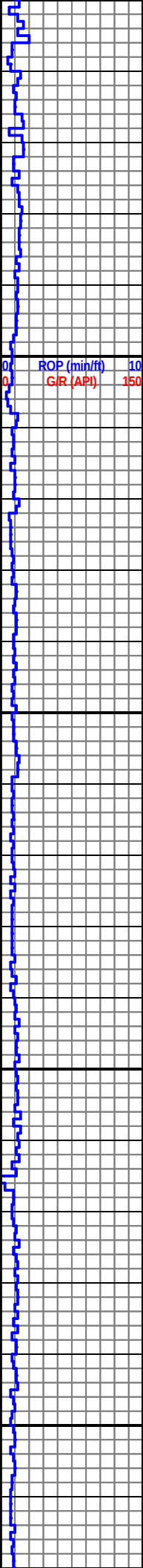
WOB: 15.4k
RPM: 45
GPM: 353
SPP: 1423

WT: 9.6
VIS: 44

WT/ 9.4 VIS/38
LCM/6

WT: 9.4
VIS: 38

WT/9.5 VIS/39
LCM/8



MISSISSIPPI @
4,776' (-3,457')

LS: PRED LT TAN TO TAN,
SME OFF WHT TO WHT, TR
SNDY TXT, BLKY, SUBANG
TO SUBRND, V FN XLN, MOD
FRM TO FRM, SME V FRM TO
MOD HRD, SME PP VUG
POR, TR HL FRAC POR, SLI
TR DULL YEL FLOR, NO VIS
CUT, NO RES RING

LS: MSTLY LT TN- TN, SME
OFF WHI- WHI, MICRO XLN,
SME VRY FN XLN, BLKY,
MOD FRM- FRM, SME MOD
HRD, TR HL FRAC POR, CHT:
OFF WHI- WHI, PRED
TRPLTC, SME HL FRAC POR,
PLTY, SME YELLOW FLOR,
POOR- FAIR MLKY WHI CUT,
FAINT- POOR MLKY WHI RES
RNG

LS: PRED LT TN- TN, SME
OFF WHI- WHI, MICRO XLN,
SME VRY FN XLN, BLKY,
MOD FRM- FRM, SME MOD
HRD, TR HL FRAC POR, CHT:
PRED OFF WHI- WHI, SME LT
GRY, PRED TRPLTC, SME HL
FRAC POR, PLTY, SH: LT
GRY- GRY, BLKY, SLTY TXT,
SLI YELLOW FLOR, POOR-
FAIR MLKY WHI CUT, FAINT-
POOR MLKY WHI RES RNG



SVY @ 4,997' DEG
0.7

WOB: 15.3
RPM: 64
GPM: 364
SPP: 1492

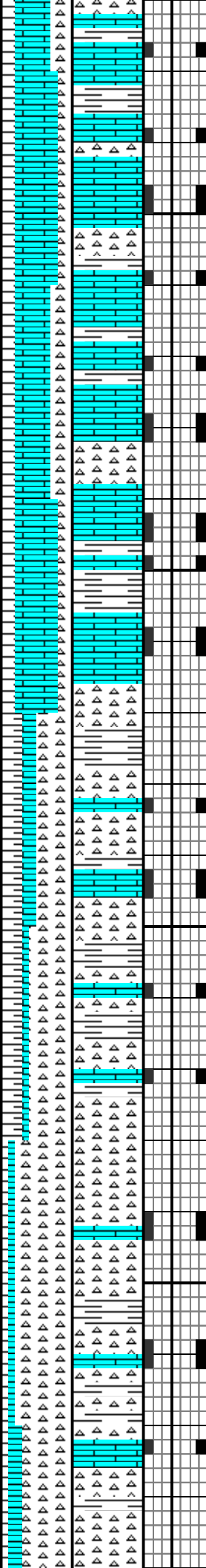
WT/9.4 VIS/39
LCM/9

WT/9.5 VIS/39
LCM/9

WT/9.4 VIS/41
LCM/7

ROP (min/ft) 10
GIR (API) 150

5000
5050
5100
5150



LS: MSTLY TN- LT TN, SME CRM, PRED MICRO XLN, SME VRY FN- FN XLN, MOD FRM- FRM, OCC MOD HRD, TR HL FRAC POR, BLKY, CHT: MSTLY LT GRY, SME OFF WHI, SME TRPLTC, PRED PLTY, SME HL FRAC POR, SH: PRED LT GRY- GRY, SLTY TXT, SPLNTRY, BLKY, SLI DULL YEL FLOR, SLOW POOR- FAIR MLKY WHI CUT, THIN MLKY WHI RES RNG

LS: PRED LT TN- TN, SME OFF WHI- CRM, MICRO XLN, SME VRY FN XLN, TR HL FRAC POR, BLKY, MOD FRM- FRM, SME MOD HRD, CHT: PRED WHI, SME LT GRY- TRNSLU, OCC LT BRW, PRED TRIP, SME HL FRAC POR, PLTY, SH: PRED BLK, TR OF RED/BRW, SPLTRY, MSTLY BLKY, SLI DULL YEL FLOR, SLOW POOR- FAIR MLKY WHI CUT, THIN MLKY WHI RES RNG

CHT: MSTLY LT GRY- TRSLU, MSTLY TRIP, SME HL FRAC POR, PLTY, SH: PRED BLK, SME DRK BRW, BLKY, SME LS IN SMPLE, DULL YELLOW FLOR, SLOW POOR- FAIR MLKY WHI CUT, THIN MLKY WHI RES RNG

CHT: PRED LT GRY- TRNSLU, PRED TRIP, MSTLY PLTY, SME HL FRAC POR, SME LS AND SH IN SMPLE, VRY DULL YEL FLOR, SLOW POOR TO FAIR MLKY WHI CUT, THN MLKY WHI RES RNG

KD
KD
KD
KD
KD
KD
KD

BandRidge Energy Inc. Nancy 3507 14000 FLUOROMETER1000

GAS TRAP TEST 79 U

WOB: 13.7
RPM: 72
GPM: 360
SPP: 1477

7/19/2013 @
5,235'

WT/9.5 VIS/39
LCM/8

WT/9.6 VIS/38
LCM/9

ROP (min/ft) 10
GIR (API) 150

ROP

5200
5250
5300
5350
5400

CHT: MSLTY LT GRY, SME
TRNSLU, PLTY, MSTLY TRIP,
SME HL FRAC POR, TR LS IN
SMPL, DULL YEL FLOR,
POOR- FAIR MLKY CUT, THN
MLKY RES RNG

KINDERHOOK @
5,220' (-3,901')

SH: PRED GRY- DRK GRY,
SME CALCA, BLKY- PLTY,
CHT: PRED LT GRY- TRNSLU,
PRED TRIP, SME HL FRAC
POR, SME LS, DULL YEL
FLOR, POOR- FAIR MLKY
WHI CUT, THN MLK Y RES
RNG

SH: PRED DRK BRW- BLK,
SME GRY- DRK GRY, SME
CALCA, BLKY, TR OF LS AND
CHT IN SMPL, YEL FLOR,
POOR- FAIR MLKY CUT, THN
MLKY WHI RES RNG

WOODFORD @
5,295' (-3,976')

SH: MSTLY DRK BRW- BLK,
SME GRY- LT GRY, SME
CALCA, PRED BLKY, TR LS,
TR CHT, SME YEL FLOR,
SLOW MLKY WHI CUT, THN
MLKY WHI RES RNG

DRILLERS TD @
5,360 ON 7/19/2013

GR 1,301' KB 1,319'

SANDRIDGE
ENERGY, INC
NANCY 3507 1-10,
SEC 10, T35S, R7W,
HARPER CO, KS

Ridge Energy Inc. Nancy 3507 1-10, SEC 10, T35S, R7W, HARPER CO, KS FLUOROMETER 1000

KD

KD

KD

KD

GAS