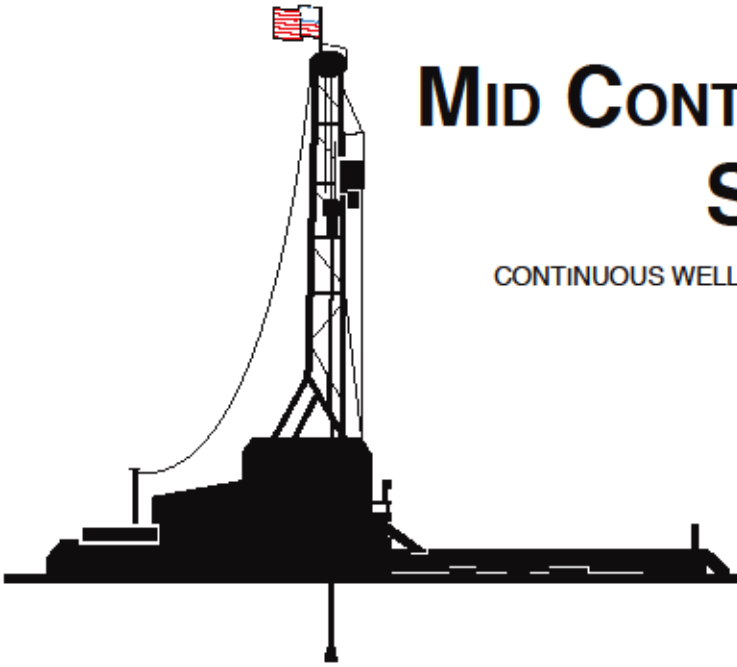


MID CONTINENT WELL LOGGING SERVICE, INC.

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:	Richard 3206 3-13H BHL #2		Sandridge Energy
Location:	HARPER COUNTY, KANSAS		
License Number:	15-077-21964-02-00	Region:	7w
Spud Date:	9/25/2013	Drilling Completed:	n/a
Surface Coordinates:	250' FSL & 790' FEL OF SECTION 25-32S-7W		
Bottom Hole Coordinates:	330' FNL & 660' FEL OF 25-32S-7W		
Ground Elevation (ft):	1,411'	K.B. Elevation (ft):	1,429'
Logged Interval (ft):	3150 To: 7899	Total Depth (ft):	n/a
Formation:	MISS		
Type of Drilling Fluid:	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

Cores

DSTs

Comments

Directional Company: BAKER HUGHES
Mud Loggers: Andrew Yates And David Milburn

ROCK TYPES

Sndylm
Anhy
Bent
Brec
Cht
Clyst
Coal
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

BS Boundst
C Chalky
CX Cryxln
E Earthy
FX Finexln
GS Grainst
L Lithogr
MX Microxln
MS Mudst
PS Packst
WS Wackest

OTHER SYMBOLS

POROSITY

E Earthy
Fenest
F Fracture
Inter
Moldic
Organic
P Pinpoint
V Vuggy
New symbol
New symbol
Sndylm
New symbol

SORTING

W Well
M Moderate
P Poor

ROUNDING

R Rounded
r Subrnd
a Subang
A Angular

OIL SHOW

Even
Spotted
Ques

D Dead

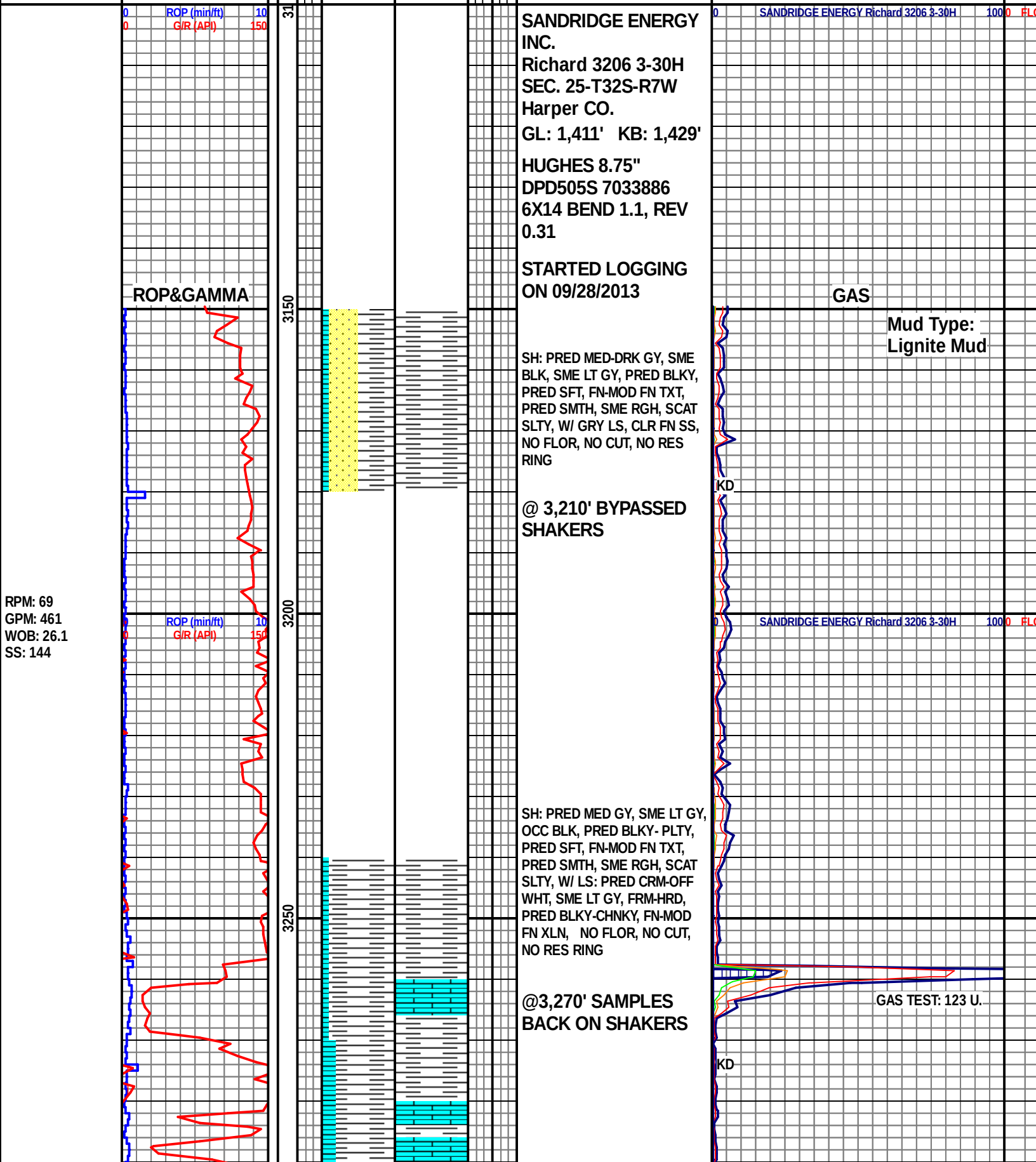
INTERVAL

Core
Dst

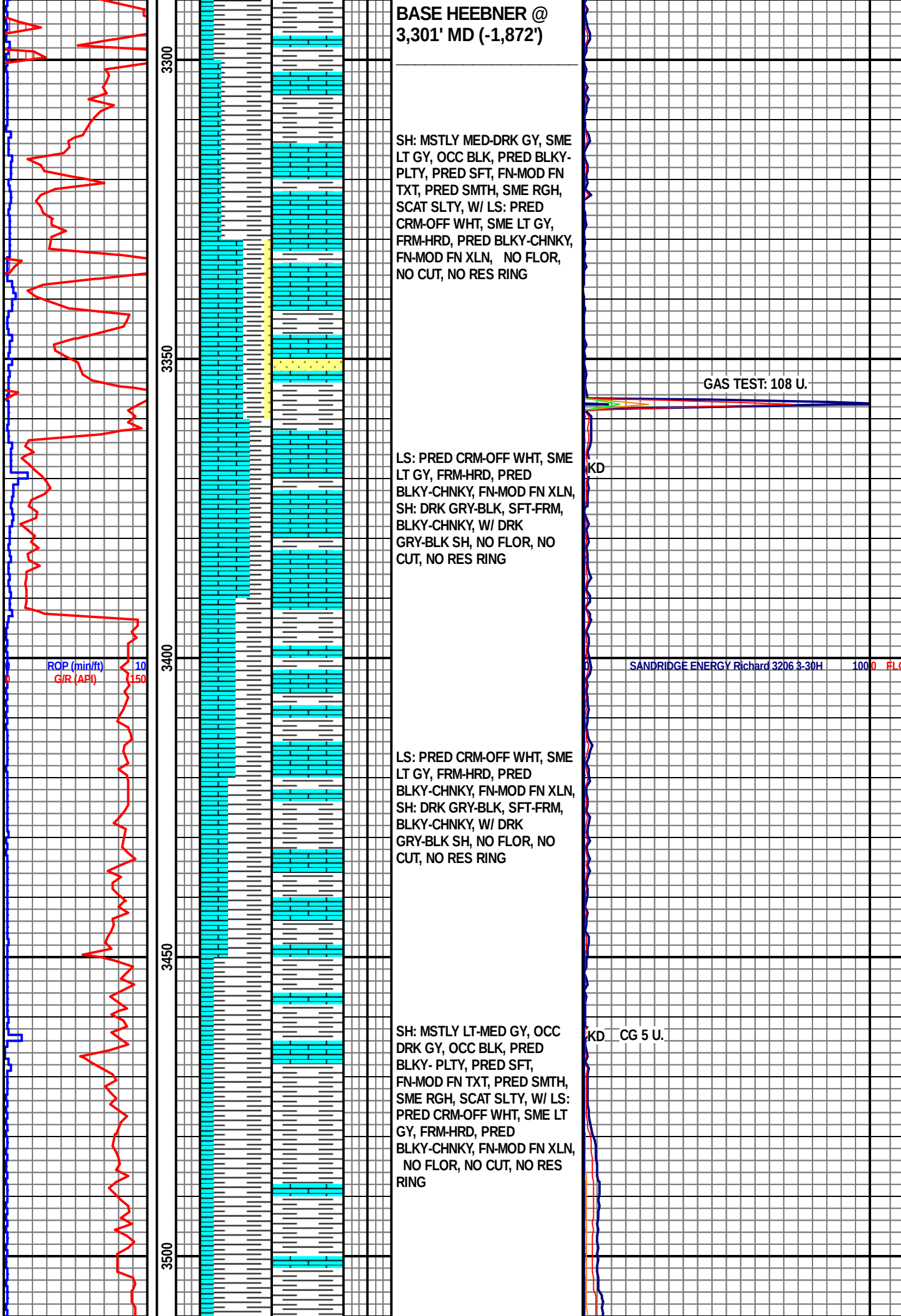
EVENT

Rft
Sidewall

Survey Data	ROP ROP (min/ft) G/R (API)	Depth	Porosity	% Lithology	Lithology	Fluorescence	Leach	Geological Descriptions	TG, C1-C5 TG (Units) C1 (units) C2 (units) C3 (units) C4 (units) C5 (units)	uoro Flu



RPM: 63
GPM: 511
WOB: 20.9
SS: 140



MD 3510 TVD 3509.8
INC 1.36 AZ 211.38
VS -5.39

SH: PRED LT GY, SME MED GY, OCC DRK GY, PRED BLKY-PLTY, PRED SFT, FN-MOD FN TXT, PRED SMTH, SME RGH, SCAT SLTY, W/ LS: PRED CRM-OFF WHT, SME LT GY, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN, NO FLOR, NO CUT, NO RES RING

3550

KD

SH: ABND LT GY, SME MED GY, OCC DRK GY, PRED BLKY-PLTY, PRED SFT, FN-MOD FN TXT, PRED SMTH, SME RGH, SCAT SLTY, W/ LS: PRED CRM-OFF WHT, SME LT GY, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN, NO FLOR, NO CUT, NO RES RING

RPM: 75
GPM: 498
WOB: 15
SS: 150

ROP (min/ft) 10
G/R (API) 150

3600

SANDRIDGE ENERGY Richard 3206 3-30H 1000 FLO

MD 3605 TVD 3604.77
INC 1.44 AZ 214.75
VS -7.35

LANSING @ 3,618'MD (-2,189')

SH: MSTLY LT GY, SME MED GY, OCC DRK GY, PRED BLKY-PLTY, PRED SFT, FN-MOD FN TXT, PRED SMTH, SME RGH, SCAT SLTY, W/ SS: PRED CLR - WHT, SME OFF WHT, FN - MED GRN, SUBRND-RND, WELL SORTED, FRM-HRD, PR CONSOL, NO FLOR, NO CUT, NO RES RING

3650

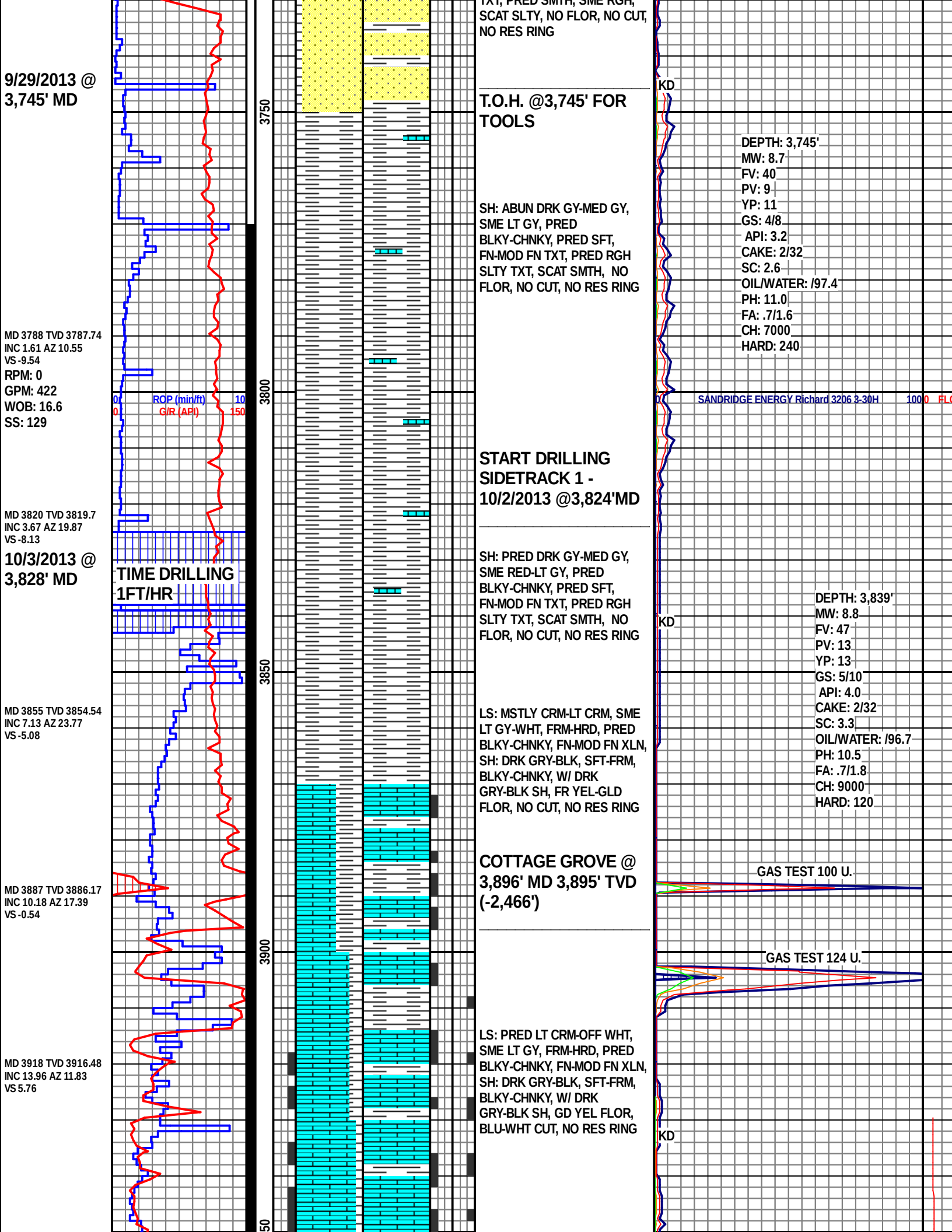
KD

SH: PRED LT GY, SME MED GY, OCC DRK GY, PRED BLKY-PLTY, PRED SFT, FN-MOD FN TXT, PRED SMTH, SME RGH, SCAT SLTY, W/ SS: PRED CLR - WHT, SME OFF WHT, FN - MED GRN, SUBRND-RND, WELL SORTED, FRM-HRD, PR CONSOL, NO FLOR, NO CUT, NO RES RING

MD 3692 TVD 3691.75
INC 1.24 AZ 218.93
VS -9

3700

SS: PRED CLR - WHT, SME OFF WHT, FN - MED GRN, SUBRND-RND, WELL SORTED, FRM-HRD, PR CONSOL, W/ SH: MSTLY LT GY, SME MED GY, OCC DRK GY, PRED BLKY-PLTY, PRED SFT, FN-MOD FN TXT, PRED SMTH, SME RGH,


TXT, PRED SMTH, SME RGH, SCAT SLTY, NO FLOR, NO CUT, NO RES RING
9/29/2013 @ 3,745' MD
T.O.H. @3,745' FOR TOOLS
KD
DEPTH: 3,745'
MW: 8.7
FV: 40
PV: 9
YP: 11
GS: 4/8
API: 3.2
CAKE: 2/32
SC: 2.6
OIL/WATER: /97.4
PH: 11.0
FA: .7/1.6
CH: 7000
HARD: 240
3750
SH: ABUN DRK GY-MED GY, SME LT GY, PRED BLKY-CHNKY, PRED SFT, FN-MOD FN TXT, PRED RGH SLTY TXT, SCAT SMTH, NO FLOR, NO CUT, NO RES RING
MD 3788 TVD 3787.74
INC 1.61 AZ 10.55
VS -9.54
RPM: 0
GPM: 422
WOB: 16.6
SS: 129
ROP (min/ft)
G/R (API)
SANDRIDGE ENERGY Richard 3206 3-30H
3800
START DRILLING SIDETRACK 1 - 10/2/2013 @3,824'MD
MD 3820 TVD 3819.7
INC 3.67 AZ 19.87
VS -8.13
10/3/2013 @ 3,828' MD
TIME DRILLING 1FT/HR
SH: PRED DRK GY-MED GY, SME RED-LT GY, PRED BLKY-CHNKY, PRED SFT, FN-MOD FN TXT, PRED RGH SLTY TXT, SCAT SMTH, NO FLOR, NO CUT, NO RES RING
KD
DEPTH: 3,839'
MW: 8.8
FV: 47
PV: 13
YP: 13
GS: 5/10
API: 4.0
CAKE: 2/32
SC: 3.3
OIL/WATER: /96.7
PH: 10.5
FA: .7/1.8
CH: 9000
HARD: 120
3850
MD 3855 TVD 3854.54
INC 7.13 AZ 23.77
VS -5.08
LS: MSTLY CRM-LT CRM, SME LT GY-WHT, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN, SH: DRK GRY-BLK, SFT-FRM, BLKY-CHNKY, W/ DRK GRY-BLK SH, FR YEL-GLD FLOR, NO CUT, NO RES RING
COTTAGE GROVE @ 3,896' MD 3,895' TVD (-2,466')
GAS TEST 100 U.
MD 3887 TVD 3886.17
INC 10.18 AZ 17.39
VS -0.54
GAS TEST 124 U.
3900
MD 3918 TVD 3916.48
INC 13.96 AZ 11.83
VS 5.76
LS: PRED LT CRM-OFF WHT, SME LT GY, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN, SH: DRK GRY-BLK, SFT-FRM, BLKY-CHNKY, W/ DRK GRY-BLK SH, GD YEL FLOR, BLU-WHT CUT, NO RES RING
KD

MD 3950 TVD 3947.25
INC 17.95 AZ 8.34
VS 14.44

MD 3982 TVD 3977.35
INC 21.59 AZ 7.44
VS 25.18

0 ROP (min/ft) 10
0 G/R (API) 150

MD 4013 TVD 4005.79
INC 25.29 AZ 7.6
VS 37.43

MD 4041 TVD 4030.76
INC 28.48 AZ 7.5
VS 50

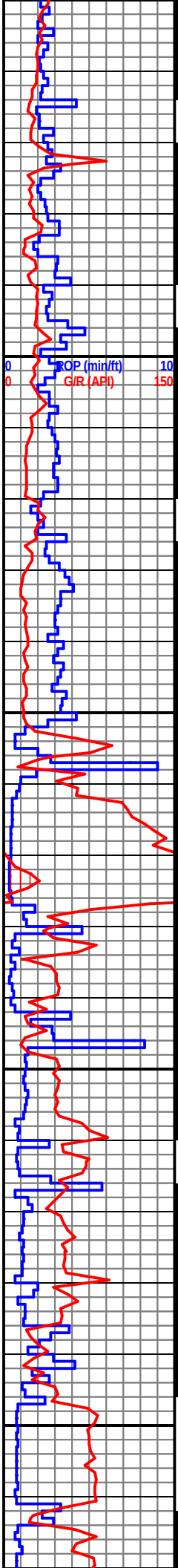
10/4/2013 @ 4,057' MD

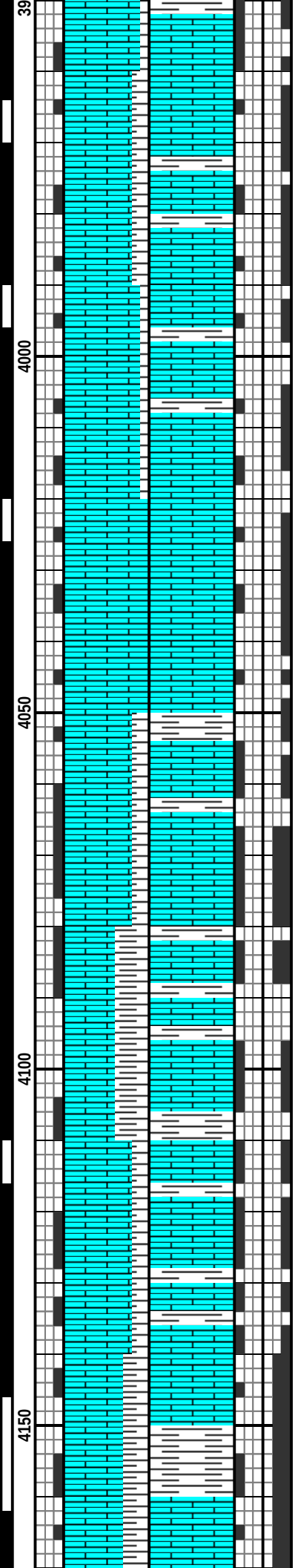
MD 4072 TVD 4057.7
INC 30.48 AZ 9.9
VS 65.11

MD 4104 TVD 4085.05
INC 32.41 AZ 12.66
VS 81.52

MD 4135 TVD 4110.87
INC 34.79 AZ 14.58
VS 98.24

MD 4166 TVD 4136.17
INC 35.82 AZ 14.48





LS: ABND TN-CRM, SME LT GY, OCC WHT-OFF WHT, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN, SH: DRK GRY-BLK, SFT-FRM, BLKY-CHNKY, W/ DRK GRY-BLK SH, GD YEL FLOR, BLU-WHT CUT, NO RES RING

LS: PRED DRK CRM-TN, SME LT GY, SME OFF WHT-LT CRM, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN, SH: DRK GRY-BLK, SFT-FRM, BLKY-CHNKY, W/ DRK GRY-BLK SH, GD YEL FLOR, BLU-WHT CUT, NO RES RING

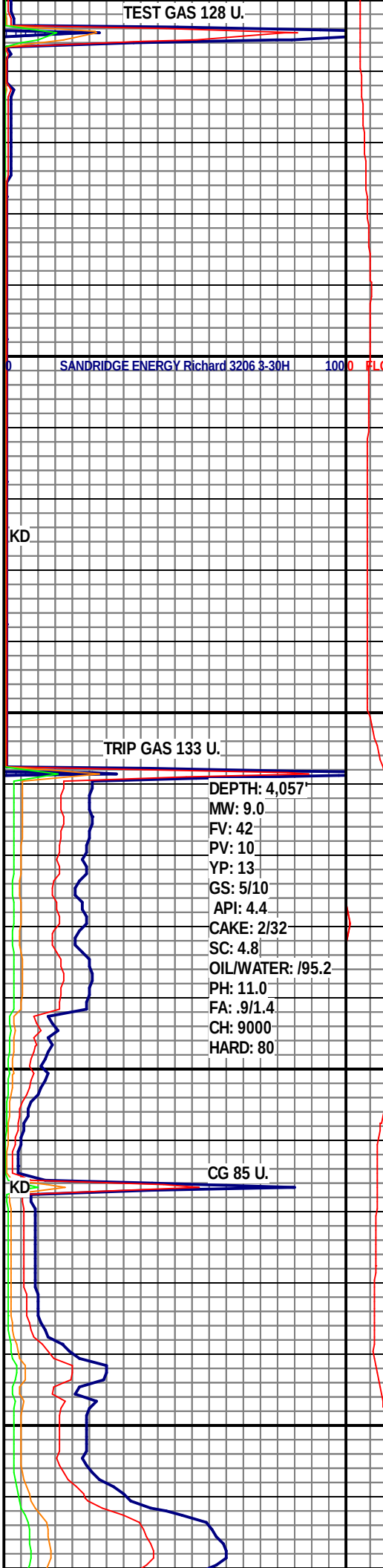
T.O.H. @ 4,057' FOR NEW BIT #7, 8.75, HCC, DPD506X, 7146952, 6X14S,

LS: PRED LT CRM-OFF WHT, SME LT GY, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN, SH: DRK GRY-BLK, SFT-FRM, BLKY-CHNKY, W/ LT GRY SH, GD YEL FLOR, BLU-WHT CUT, NO RES RING

@4,093 T.O.O.H FOR MWD TOOL

LS: PRED LT CRM-MOTT, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN, SH: DRK GRY-BLK, SFT-FRM, BLKY-CHNKY, W/ LT GRY SH, GD YEL FLOR, BLU-WHT CUT, NO RES RING

SH: PRED DRK GY-BLK, SME MED GY, PRED BLKY-CHNKY, PRED SFT, PRED FN TXT, OCC RGH SLTY TXT, SCAT SMTH,



INC 35.82 AZ 14.48
VS 115.65

RPM: 41
GPM: 448
WOB: 20
SS: 135

MD 4198 TVD 4162.02
INC 36.4 AZ 13.34
VS 134.02

ROP (min/ft) 0 10
G/R (API) 0 150

MD 4230 TVD 4187.75
INC 36.56 AZ 12.47
VS 152.62

MD 4261 TVD 4212.63
INC 36.65 AZ 11.43
VS 170.76

MD 4293 TVD 4237.92
INC 38.92 AZ 10.07
VS 190.07

MD 4324 TVD 4261.53
INC 41.86 AZ 8.1
VS 209.95

10/5/2013 @
4,350' MD

MD 4356 TVD 4284.88
INC 44.45 AZ 6.4
VS 231.7

MD 4387 TVD 4306.58

4200
4250
4300
4350

W/ LS: PRED CRM-TN, SME DRK GRY, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN, SCAT YEL FLOR, STRNG BLU-WHT CUT, BRT WHT RES RING

OSWEGO @ 4,210'
MD 4,172' TVD
(-2,743')

SH: MSTLY DRK GY-BLK, SME MED GY, PRED BLKY-CHNKY, PRED SFT, PRED FN TXT, OCC RGH SLTY TXT, SCAT SMTH, W/ LS: PRED CRM-TN, SME DRK GRY, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN, NO FLOR, STRNG BLU-WHT CUT, BRT WHT RES RING

LS: PRED DRK CRM-TN, SME MED-DRK GY, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN, SH: DRK GRY-BLK, SFT-FRM, BLKY-CHNKY, W/ LT GRY SH, NO FLOR, BLU-WHT CUT, NO RES RING

LS: PRED LT CRM-OFF WHT, SME LT GY, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN, SH: DRK GRY-BLK, SFT-FRM, BLKY-CHNKY, W/ LT GRY SH, SCAT DULL YEL FLOR, FNT BLU-WHT CUT, NO RES RING

LS: PRED LT CRM-OFF WHT, SME LT GY, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN, SH: DRK GRY-BLK, SFT-FRM, BLKY-CHNKY, W/ LT GRY SH, SCAT DULL YEL FLOR, FNT BLU-WHT CUT, NO RES RING

CHEROKEE @ 4,382'
MD ' 4,303' TVD

SH GAS 135 U.

0 SANDRIDGE ENERGY Richard 3206 3-30H 1000 FLO

KD

FG 88 U.

FG 79 U.

KD

FG 50 U.

INC 46.66 AZ 5.2
VS 253.74

RPM: 0
GPM: 455
WOB: 8
SS: 136

0 ROP (min/ft) 10
0 G/R (API) 150

MD 4419 TVD 4328.05
INC 49.06 AZ 6.01
VS 277.39

MD 4450 TVD 4347.86
INC 51.5 AZ 6.87
VS 301.11

MD 4482 TVD 4367.11
INC 54.54 AZ 7.32
VS 326.52

MD 4514 TVD 4384.07
INC 57.17 AZ 7.13
VS 352.84

MD 4545 TVD 4401.39
INC 59.28 AZ 6.59
VS 379.04

MD 4576 TVD 4416.5
INC 62.37 AZ 6.8
VS 405.97

RPM: 0
GPM: 425
WOB: 29.3
SS: 133

0 ROP (min/ft) 10
0 G/R (API) 150

MD 4608 TVD 4430.6

4400
4450
4500
4550
4600

(-2874')

LS: PRED LT CRM-OFF WHT, SME LT GY, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN, SH: DRK GRY-BLK, SFT-FRM, BLKY-CHNKY, W/ LT GRY SH, SCAT DULL YEL FLOR, FNT BLU-WHT CUT, NO RES RING

VERDIGRIS @ 4,460'
MD 4,354' TVD
(-2,925')

LS: PRED LT CRM-OFF WHT, SME LT GY, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN, SH: DRK GRY-BLK, SFT-FRM, BLKY-CHNKY, W/ LT GRY SH, SCAT DULL YEL FLOR, FNT BLU-WHT CUT, NO RES RING

SH: ABND DRK GY-BLK, SME LT-MED GY, PRED BLKY-CHNKY, SCAT PLTY, PRED SFT, ABND FN SMTH TXT, OCC RGH SLTY TXT, W/ LS: PRED LT CRM-OFF WHT, TR TN, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN, SME YEL FLOR, BLU-WHT CUT, BRT WHT RES RING

SH: MSTLY DRK GY-MED GRY, OCC BLK, PRED BLKY -CHNKY, SCAT PLTY, PRED SFT, ABND FN SMTH TXT, OCC RGH SLTY TXT, W/ LS: PRED LT CRM-OFF WHT, TR TN, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN, SCAT YEL-GLD FLOR, BLU-WHT CUT, BRT WHT RES RING

KD
CG 85 U.
0 SANDRIDGE ENERGY Richard 3206 3-30H 1000 FLO
SH GAS 118 U.
FG 26 U.
KD
FG 26 U.
KD
CG 25 U.
0 SANDRIDGE ENERGY Richard 3206 3-30H 1000 FLO

MD 4608 TVD 4430.8
INC 65.32 AZ 6.55
VS 434.54

MD 4640 TVD 4443.31
INC 67.9 AZ 6.52
VS 463.76

MD 4671 TVD 4454.41
INC 70.12 AZ 6.49
VS 492.56

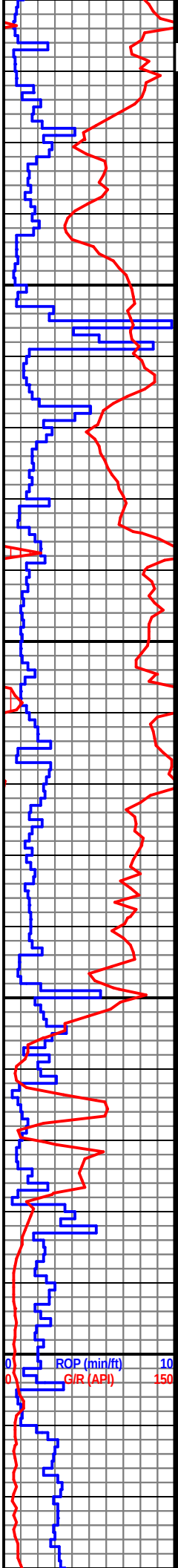
MD 4702 TVD 4464.12
INC 73.36 AZ 6.74
VS 521.84

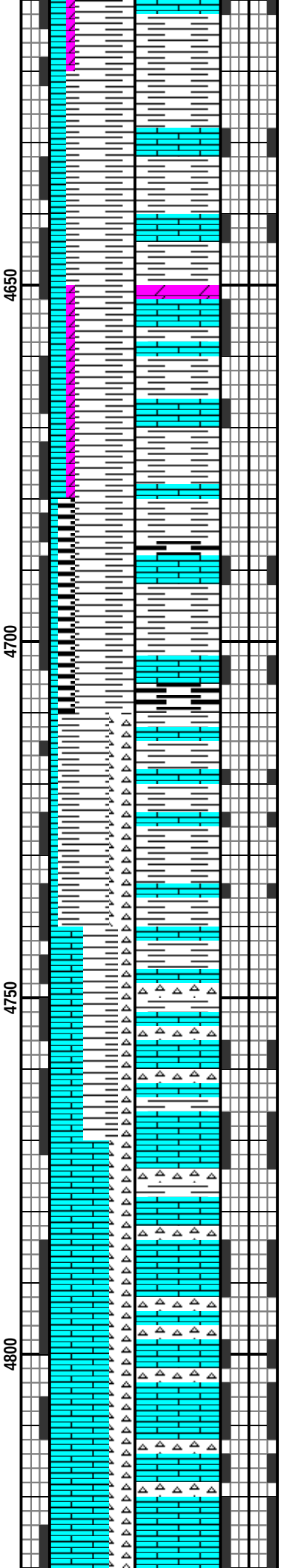
MD 4734 TVD 4472.4
INC 76.66 AZ 7.35
VS 552.57

MD 4766 TVD 4479.02
INC 79.44 AZ 7.78
VS 583.66

RPM: 0
GPM: 480
WOB: 41.3
SS: 133

MD 4797 TVD 4483.89
INC 82.5 AZ 5.62
VS 614.11





SH: MSTLY RED-MED GRY, OCC DRK GRY, PRED BLKY -CHNKY, SCAT PLTY, PRED SFT, ABND FN SMTH TXT, OCC RGH SLTY TXT, W/ LS: PRED LT CRM-OFF WHT, TR TN, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN, SCAT YEL FLOR, BLU-WHT CUT, NO RES RING

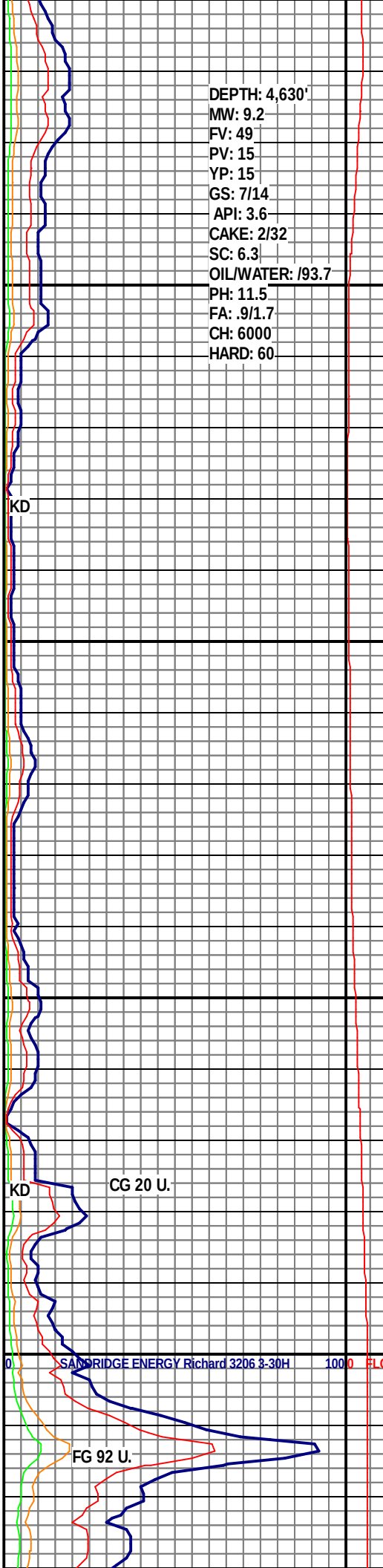
SH: PRED RED-LTGRY, OCC DRK GRY, PRED BLKY -CHNKY, SCAT PLTY, PRED SFT, ABND FN SMTH TXT, OCC RGH SLTY TXT, W/ LS: PRED LT CRM-OFF WHT, TR TN, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN, SCAT YEL FLOR, FNT BLU-WHT CUT, NO RES RING

SH: ABND DRK GY-BLK, SME LT-MED GY, PRED BLKY-CHNKY, SCAT PLTY, PRED SFT, ABND FN SMTH TXT, OCC RGH SLTY TXT, W/ LS: PRED LT CRM-OFF WHT, TR TN, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN,W/CHERT: ABUN WHT-OFF WHT, TR SMKY GY, V HRD-BRTL, BLKY, V PR HL FRAC POR, SME YEL FLOR, BLU-WHT CUT, BRT WHT RES RING

MISSISSIPPI @ 4,760' MD 4,478' TVD (-3,049')

LS: PRED LT CRM-OFF WHT, TR TN, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN W/SH: ABND DRK GY-BLK, SME LT-MED GY, PRED BLKY-CHNKY, SCAT PLTY, PRED SFT, ABND FN SMTH TXT, OCC RGH SLTY TXT,W/CHERT: ABUN WHT-OFF WHT, TR SMKY GY, V HRD-BRTL, BLKY, V PR HL FRAC POR, SME YEL FLOR, BLU-WHT CUT, BRT WHT RES RING

LS: ABUN CRM-OFF WHT, SME MOTT, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN,W/CHERT: ABUN WHT-OFF WHT, TR TRANS, V HRD-BRTL, BLKY, V PR HL FRAC POR,



MD 4829 TVD 4487.1
INC 85.99 AZ 6.47
VS 645.81

BLKY, V PR HL FRAC POR, SME YEL FLOR, BLU-WHT CUT, BRT WHT RES RING

4850

MD 4860 TVD 4488.87
INC 87.44 AZ 6.28
VS 676.61

LS: PRED LT CRM-OFF WHT, TR TN, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN,W/CHERT: ABUN WHT-OFF WHT, TR SMKY GY, V HRD-BRTL, BLKY, V PR HL FRAC POR, SME YEL FLOR, BLU-WHT CUT, BRT WHT RES RING

KD

CG 39 U.

MD 4892 TVD 4490.23
INC 87.69 AZ 6.73
VS 708.43

4900

FG 82 U.

LS: MSTLY OFF WHT, SME CRM, OCC TN, SME LT TN, PRED FRM, SME MOD FRM, FN-MOD FN XLN, PRED SUBANG, SME BLKY, CHRT: PRED OFF WHT, HRD, SME V HRD, ANG, BLKY, SCAT LT YEL FLOR, LT BLU-GRN CUT, BLU-WHT RES RING

MD 4923 TVD 4491.43
INC 87.9 AZ 6.52
VS 739.24

FG 72 U.

4950

MD 4955 TVD 4492.58
INC 87.97 AZ 6.46
VS 771.07

LS: PRED TN-CRM, SME WHT, SME OFF WHT, MOD FRM, SME FRM, SME HRD, SUBANG, BLKY-CHNKY, FN-MOD FN XLN, CHRT: PRED OFF WHT, SME OPQ, SME WHT, V FRM-HRD, OCC V HRD, ANG, BLKY, SCAT LT YEL FLOR, LT BLU-GRN CUT, LT BLU-GRN RES RING

KD

CG 49 U.

MD 4986 TVD 4493.64
INC 88.9 AZ 7.1

RPM: 36
GPM: 470
WOB: 30.5
SS: 133

0 ROP (min/ft) 10
0 G/R (API) 150

5000

0 SANDRIDGE ENERGY Richard 3206 3-30H 100 0 FLO

DTG 94 U.

MD 5018 TVD 4494.67
INC 88.24 AZ 7.3
VS 832.21

LS: MSTLY TN, SME MED TN, SME CRM, SME OFF WHT, PRED FRM, SME V FRM, OCC MOD FRM, PRED SUBANG, SME CHNKY, FN-MOD FN XLN, CHRT: MSTLY OFF WHT, ANG, HRD, SME V FRM,SCAT LT YEL FLOR, BRT MLKY GRN CUT, LT GRN RES RING

FG 45 U.

5050

MD 5049 TVD 4495.35
INC 89.26 AZ 6.04
VS 864.5

10/6/2013 @ 5,075' MD

MD 5080 TVD 4495.43
INC 90.43 AZ 2.82
VS 895.43

MD 5112 TVD 4495.02
INC 91.02 AZ 0.91
VS 927.42

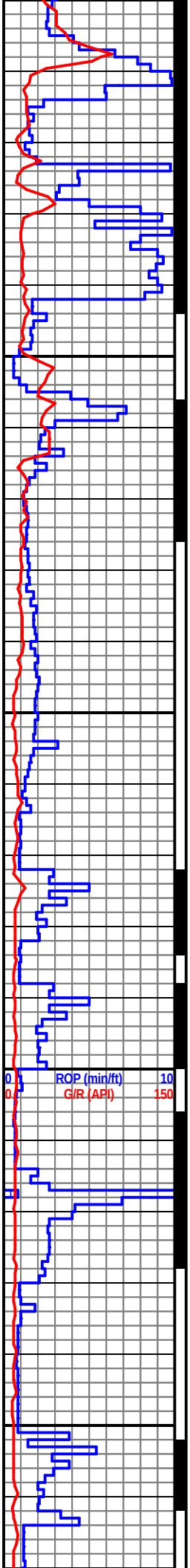
MD 5149 TVD 4494.36
INC 91.05 AZ 0.44
VS 964.37

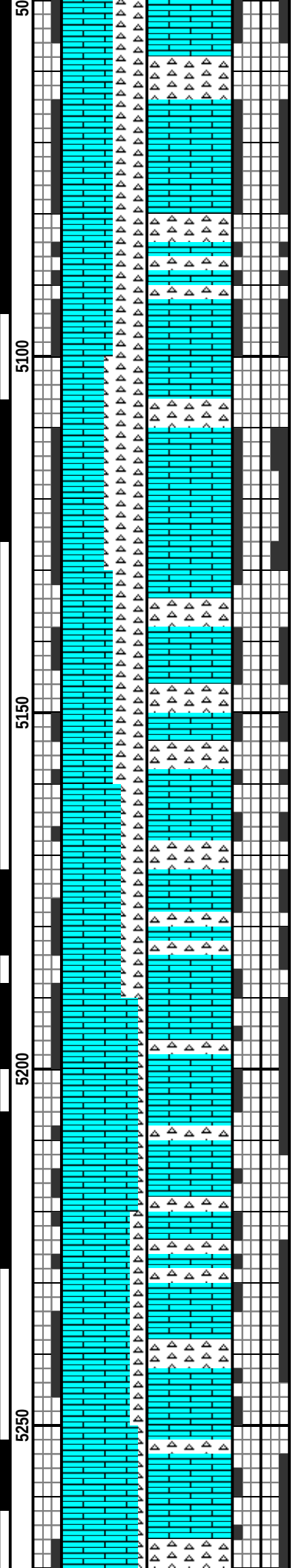
MD 5180 TVD 4493.74
INC 91.26 AZ 0.22
VS 995.36

RPM: 0
GPM: 255
WOB: 26.6
SS: 77

MD 5210 TVD 4493.46
INC 89.78 AZ 0.36
VS 1025.36

MD 5241 TVD 4493.94
INC 88.46 AZ 0.36
VS 1056.35





LS: PRED MED TN, SME TN, OCC CRM, OCC OFF WHT, SUBANG, SME BLKY-CHNKY, FN-MOD FN XLN, FRM, SME V FRM, SME MOD FRM, CHRT: WHT, SME OPQ, SME OFF WHT, PRED HRD, SME V FRM, ANG, SCAT LT YEL FLOR, MLKY BLU-GRN CUT, GRN-BLU RES RING

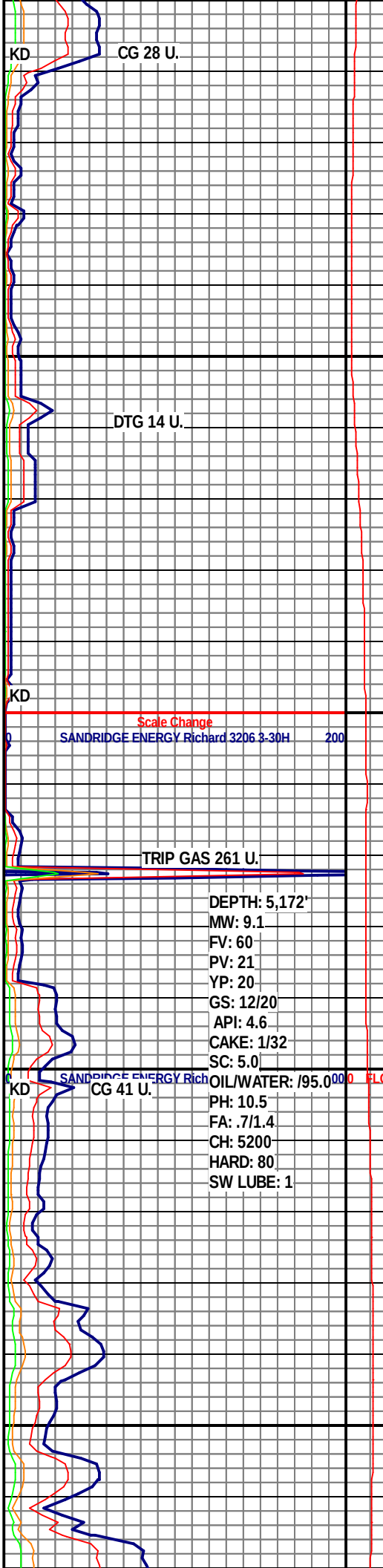
LS: MSTLY TN, SME MED TN, SME CRM, PRED SUB ANG, SME ANG, SME BLKY, MOD FRM-FRM, CHRT: PRED WHT, SME OPQ, HRD, SME V FRM, ANG, SCAT LT YEL FLOR, BRT GRN-BLU CUT, LT GRN RES RING

LS: ABUN CRM-OFF WHT, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN,W/CHERT: ABUN WHT-OFF WHT, TR TRANS, V HRD-BRTL, BLKY, V PR HL FRAC POR, SME YEL FLOR, BLU-WHT CUT, BRT WHT RES RING

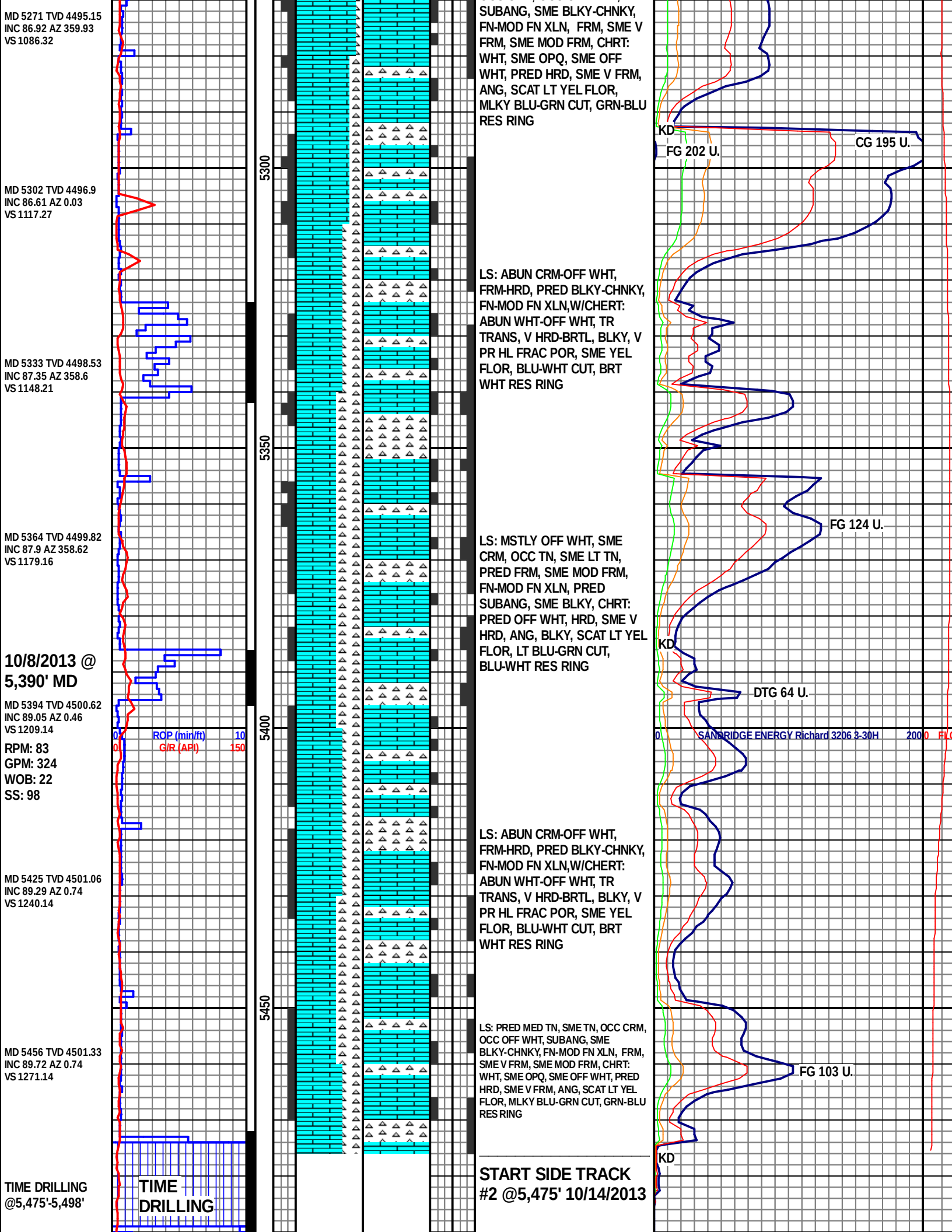
@5.172' T.O.O.H FOR INTERMEDIATE CASING, BIT #8 6.125, PDC, DPD405XX, 7141105, 4X15S

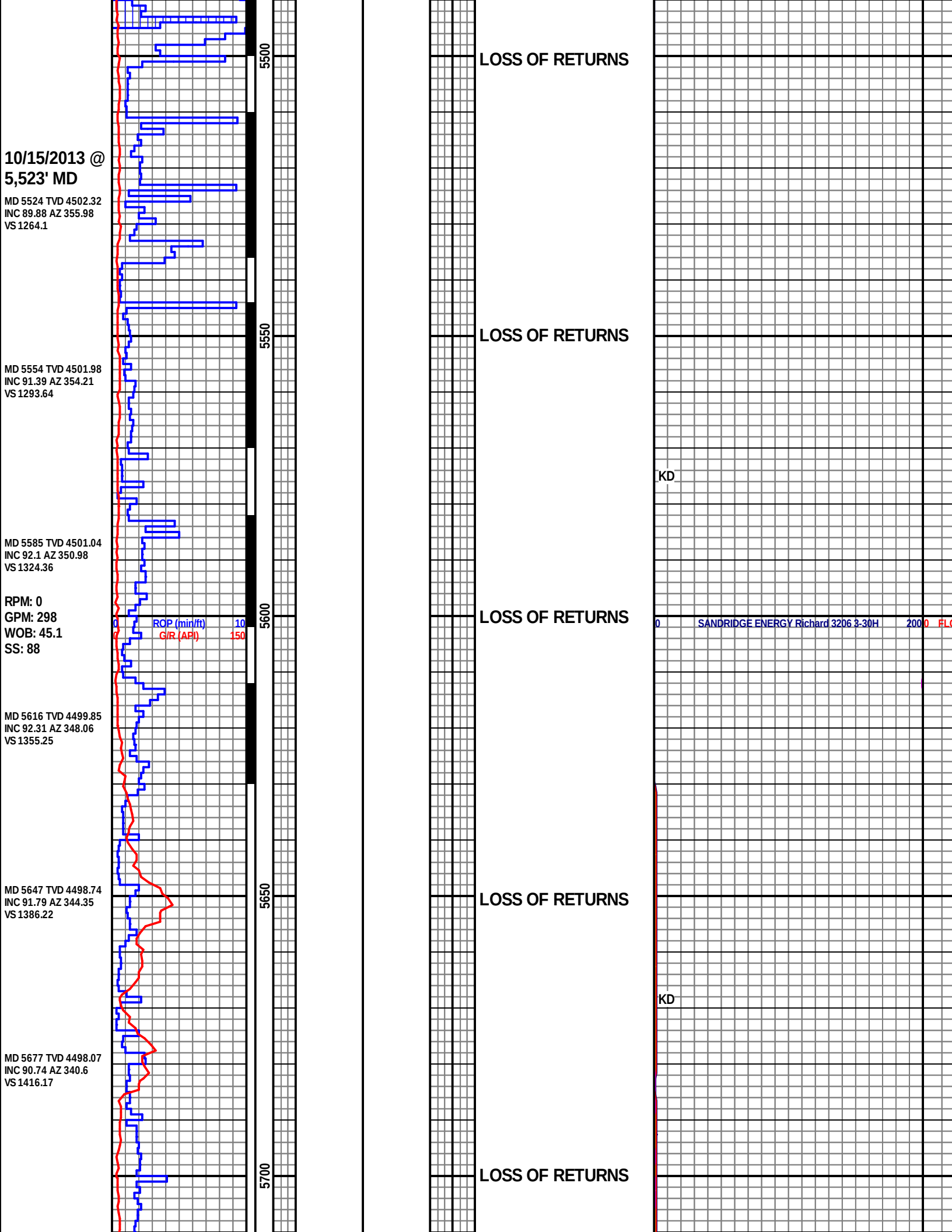
LS: MSTLY OFF WHT, SME CRM, OCC TN, SME LT TN, PRED FRM, SME MOD FRM, FN-MOD FN XLN, PRED SUBANG, SME BLKY, CHRT: PRED OFF WHT, HRD, SME V HRD, ANG, BLKY, SCAT LT YEL FLOR, LT BLU-GRN CUT, BLU-WHT RES RING

LS: PRED MED TN, SME TN, OCC CRM, OCC OFF WHT,



DEPTH: 5,172'
MW: 9.1
FV: 60
PV: 21
YP: 20
GS: 12/20
API: 4.6
CAKE: 1/32
SC: 5.0
OIL/WATER: /95.0
PH: 10.5
FA: .7/1.4
CH: 5200
HARD: 80
SW LUBE: 1


MD 5271 TVD 4495.15
INC 86.92 AZ 359.93
VS 1086.32
MD 5302 TVD 4496.9
INC 86.61 AZ 0.03
VS 1117.27
MD 5333 TVD 4498.53
INC 87.35 AZ 358.6
VS 1148.21
MD 5364 TVD 4499.82
INC 87.9 AZ 358.62
VS 1179.16
10/8/2013 @
5,390' MD
MD 5394 TVD 4500.62
INC 89.05 AZ 0.46
VS 1209.14
RPM: 83
GPM: 324
WOB: 22
SS: 98
MD 5425 TVD 4501.06
INC 89.29 AZ 0.74
VS 1240.14
MD 5456 TVD 4501.33
INC 89.72 AZ 0.74
VS 1271.14
TIME DRILLING
@5,475'-5,498'
TIME
DRILLING
ROP (min/ft)
G/R (API)
0
10
0
150
5300
5350
5400
5450
SUBANG, SME BLKY-CHNKY, FN-MOD FN XLN, FRM, SME V FRM, SME MOD FRM, CHRT: WHT, SME OPQ, SME OFF WHT, PRED HRD, SME V FRM, ANG, SCAT LT YEL FLOR, MLKY BLU-GRN CUT, GRN-BLU RES RING
LS: ABUN CRM-OFF WHT, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN,W/CHERT: ABUN WHT-OFF WHT, TR TRANS, V HRD-BRTL, BLKY, V PR HL FRAC POR, SME YEL FLOR, BLU-WHT CUT, BRT WHT RES RING
LS: MSTLY OFF WHT, SME CRM, OCC TN, SME LT TN, PRED FRM, SME MOD FRM, FN-MOD FN XLN, PRED SUBANG, SME BLKY, CHRT: PRED OFF WHT, HRD, SME V HRD, ANG, BLKY, SCAT LT YEL FLOR, LT BLU-GRN CUT, BLU-WHT RES RING
LS: ABUN CRM-OFF WHT, FRM-HRD, PRED BLKY-CHNKY, FN-MOD FN XLN,W/CHERT: ABUN WHT-OFF WHT, TR TRANS, V HRD-BRTL, BLKY, V PR HL FRAC POR, SME YEL FLOR, BLU-WHT CUT, BRT WHT RES RING
LS: PRED MED TN, SME TN, OCC CRM, OCC OFF WHT, SUBANG, SME BLKY-CHNKY, FN-MOD FN XLN, FRM, SME V FRM, SME MOD FRM, CHRT: WHT, SME OPQ, SME OFF WHT, PRED HRD, SME V FRM, ANG, SCAT LT YEL FLOR, MLKY BLU-GRN CUT, GRN-BLU RES RING
START SIDE TRACK
#2 @5,475' 10/14/2013
KD
FG 202 U.
CG 195 U.
FG 124 U.
KD
DTG 64 U.
0
SANDRIDGE ENERGY Richard 3206 3-30H
2000
FG 103 U.
KD


10/15/2013 @
5,523' MD
MD 5524 TVD 4502.32
INC 89.88 AZ 355.98
VS 1264.1
MD 5554 TVD 4501.98
INC 91.39 AZ 354.21
VS 1293.64
MD 5585 TVD 4501.04
INC 92.1 AZ 350.98
VS 1324.36
RPM: 0
GPM: 298
WOB: 45.1
SS: 88
MD 5616 TVD 4499.85
INC 92.31 AZ 348.06
VS 1355.25
MD 5647 TVD 4498.74
INC 91.79 AZ 344.35
VS 1386.22
MD 5677 TVD 4498.07
INC 90.74 AZ 340.6
VS 1416.17
0
ROP (min/ft)
10
0
G/R (API)
150
5500
5550
5600
5650
5700
LOSS OF RETURNS
LOSS OF RETURNS
LOSS OF RETURNS
LOSS OF RETURNS
LOSS OF RETURNS
KD
KD
0
SANDRIDGE ENERGY Richard 3206 3-30H
2000

MD 5709 TVD 4498.03
INC 89.41 AZ 335.8
VS 1447.93

MD 5740 TVD 4498.56
INC 88.64 AZ 334.82
VS 1478.46

MD 5770 TVD 4499.3
INC 88.52 AZ 334.29
VS 1507.94

RPM: 75
GPM: 281
WOB: 21.4
SS: 86

MD 5800 TVD 4500.16
INC 88.21 AZ 334.14
VS 1537.38

ROP (min/ft) 0 10
G/R (API) 0 150

MD 5891 TVD 4502.26
INC 89.14 AZ 336.14
VS 1626.96

5750
5800
5850
5900

LOSS OF RETURNS
LOSS OF RETURNS
LOSS OF RETURNS
LOSS OF RETURNS

KD
KD

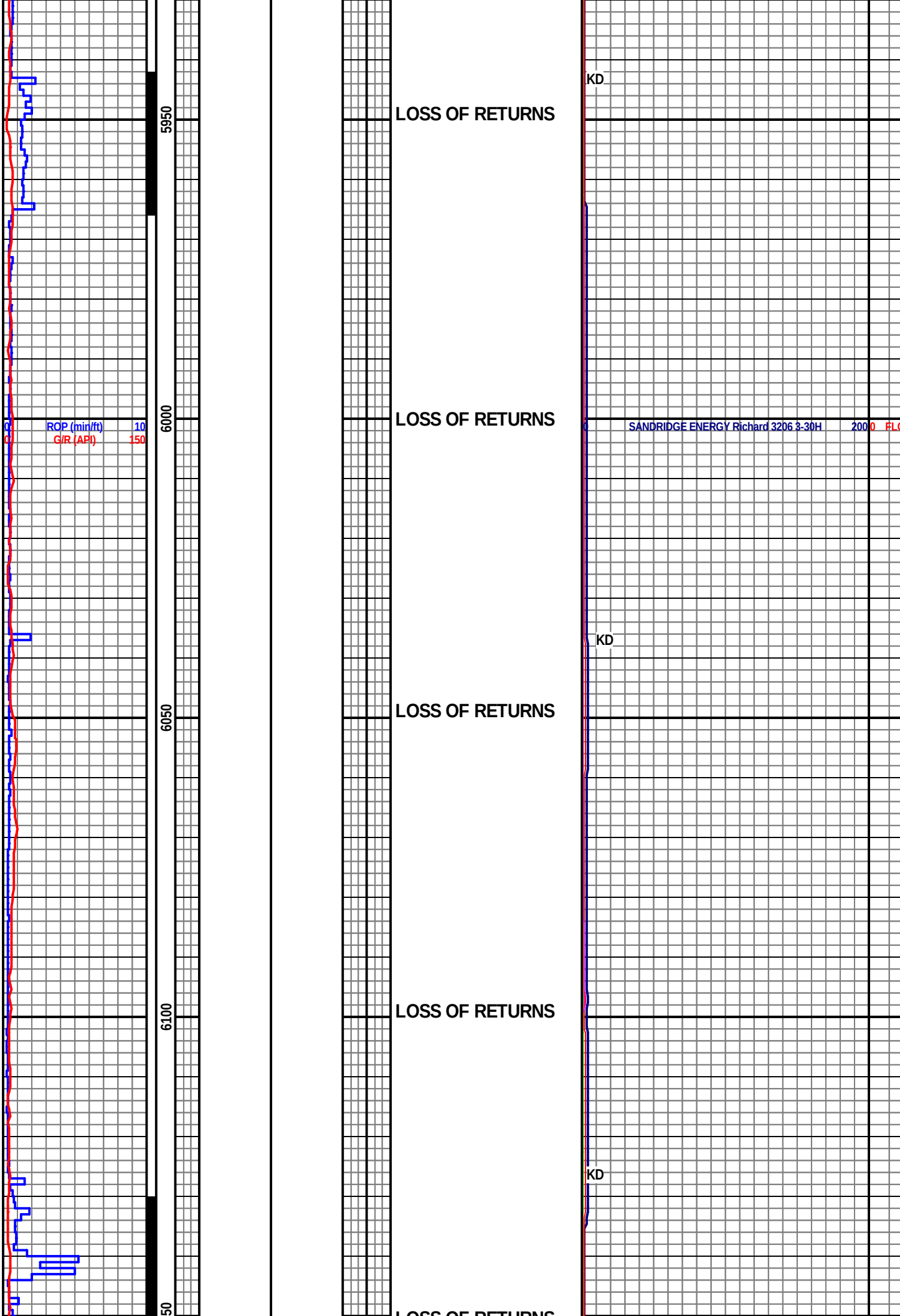
0 SANDRIDGE ENERGY Richard 3206 3-30H 2000 FLO

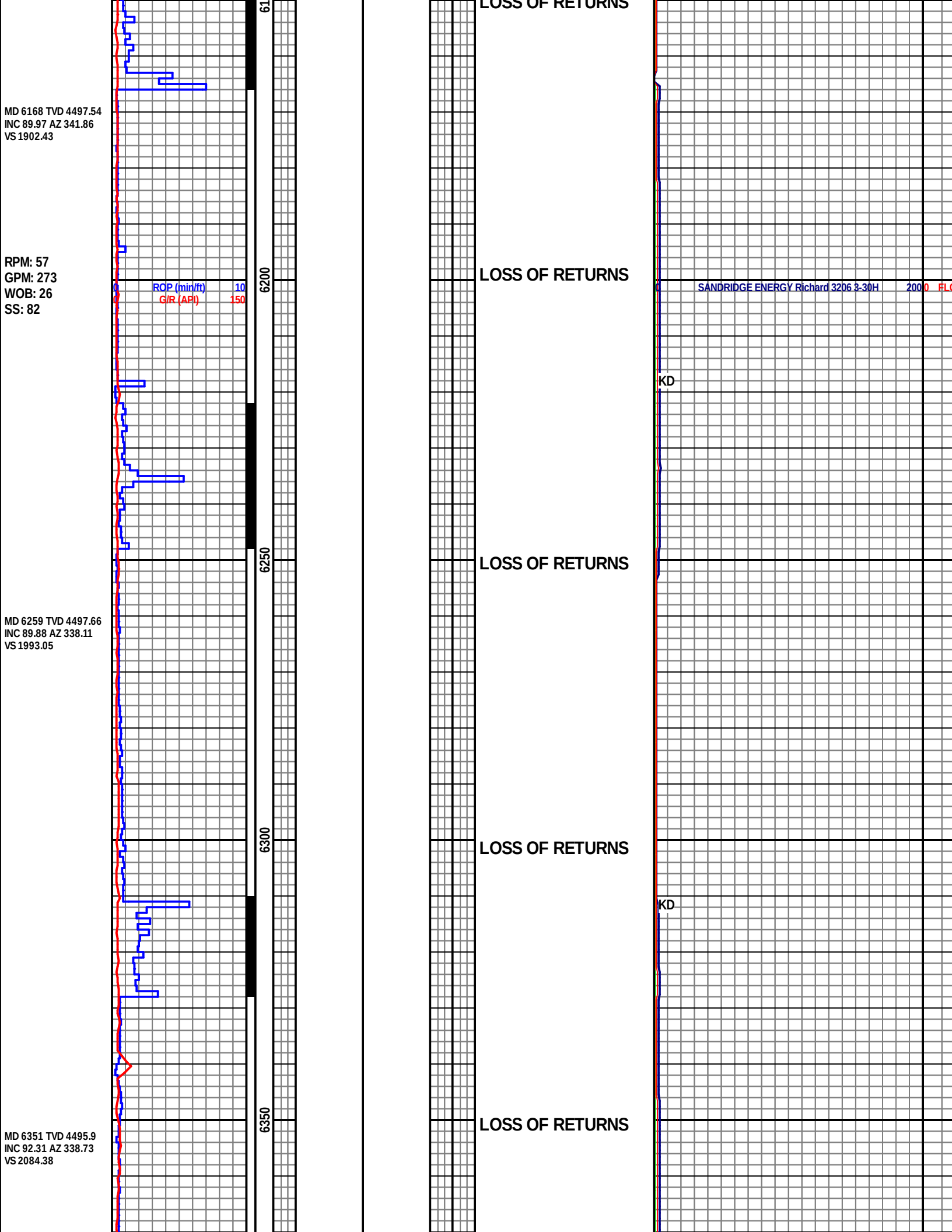
DEPTH: 5,834'
MW: 8.4
FV: 27
PV: 1
YP: 1
GS: 1/1
API: 100
CAKE: /
SC: .1
OIL/WATER: /99.9
PH: 7.5
FA: .1/.4
CH: 500
HARD: 280
SW LUBE: 2

MD 5984 TVD 4502.29
INC 90.83 AZ 338.55
VS 1719.09

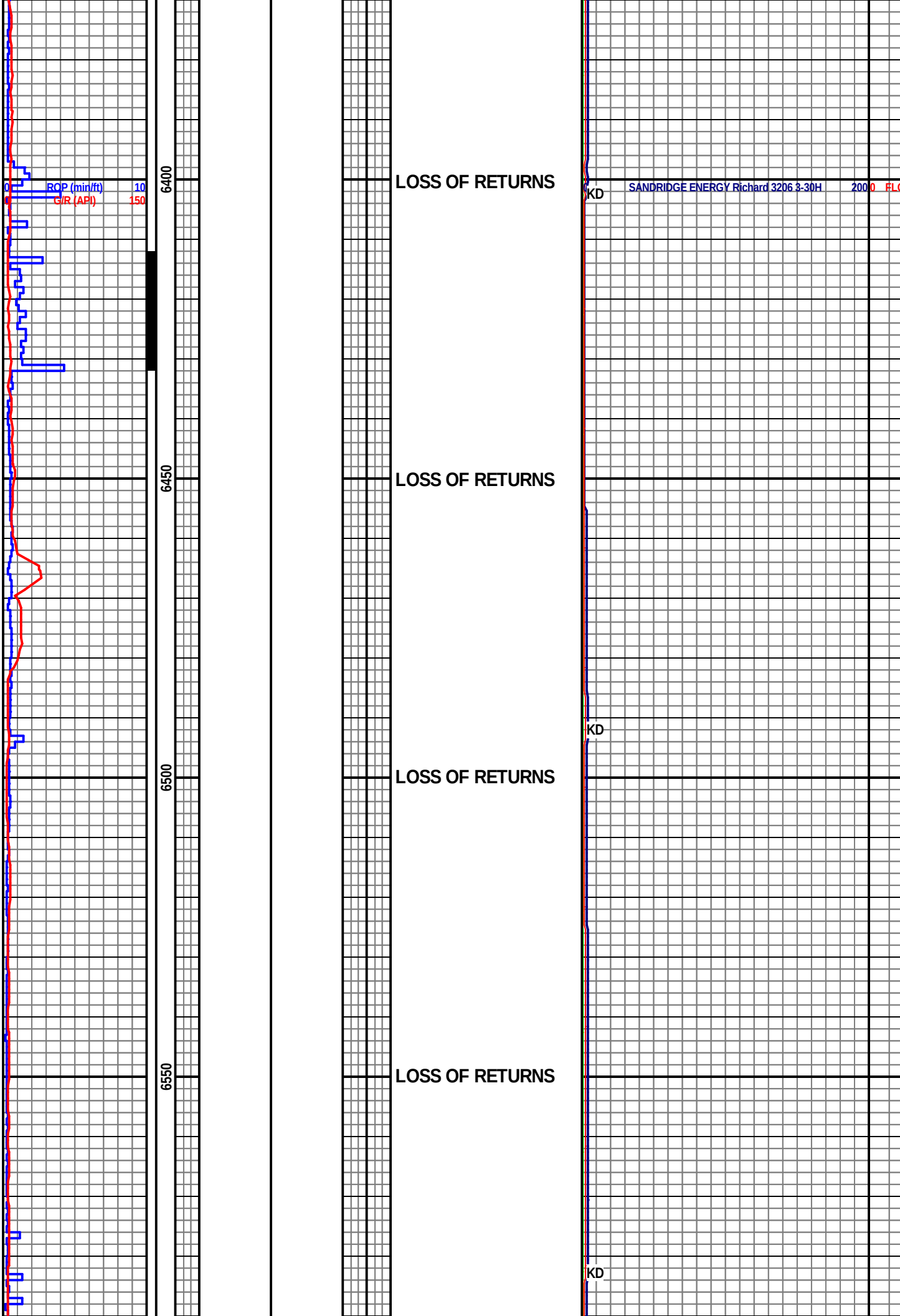
RPM: 75
GPM: 271
WOB: 27.7
SS: 83

MD 6075 TVD 4499.6
INC 92.56 AZ 341.26
VS 1809.65




MD 6168 TVD 4497.54
INC 89.97 AZ 341.86
VS 1902.43
RPM: 57
GPM: 273
WOB: 26
SS: 82
ROP (min/ft)
10
G/R (API)
150
6200
6250
6300
6350
MD 6259 TVD 4497.66
INC 89.88 AZ 338.11
VS 1993.05
MD 6351 TVD 4495.9
INC 92.31 AZ 338.73
VS 2084.38
LOSS OF RETURNS
LOSS OF RETURNS
LOSS OF RETURNS
LOSS OF RETURNS
LOSS OF RETURNS
SANDRIDGE ENERGY Richard 3206 3-30H
2000
KD
KD

RPM: 66
GPM: 288
WOB: 17
SS: 87



MD 6442 TVD 4492.51
INC 91.97 AZ 335.34
VS 2174.39

MD 6533 TVD 4489.81
INC 91.42 AZ 335.58
VS 2264.05

RPM: 66
GPM: 269
WOB: 34
SS: 81

ROP (min/ft) 0 10
G/R (API) 0 150

6600

LOSS OF RETURNS

SANDRIDGE ENERGY Richard 3206 3-30H 0 2000 FLO

MD 6628 TVD 4487.95
INC 90.83 AZ 332.96
VS 2357.31

6650

LOSS OF RETURNS

KD

6700

LOSS OF RETURNS

MD 6723 TVD 4486.8
INC 90.55 AZ 332.7
VS 2450.11

6750

LOSS OF RETURNS

KD

10/16/2013 @
6,778' MD

6800

LOSS OF RETURNS

RPM: 75
GPM: 277
WOB: 31
SS: 84

ROP (min/ft) 0 10
G/R (API) 0 150

SANDRIDGE ENERGY Richard 3206 3-30H 0 2000 FLO

MD 6819 TVD 4485.67
INC 90.8 AZ 335.38
VS 2544.29

6850

LOSS OF RETURNS

KD

6900

LOSS OF RETURNS

MD 6913 TVD 4484.79
INC 90.28 AZ 338.49
VS 2637.3

6950

LOSS OF RETURNS

KD

RPM: 71
GPM: 281
WOB: 32
SS: 84

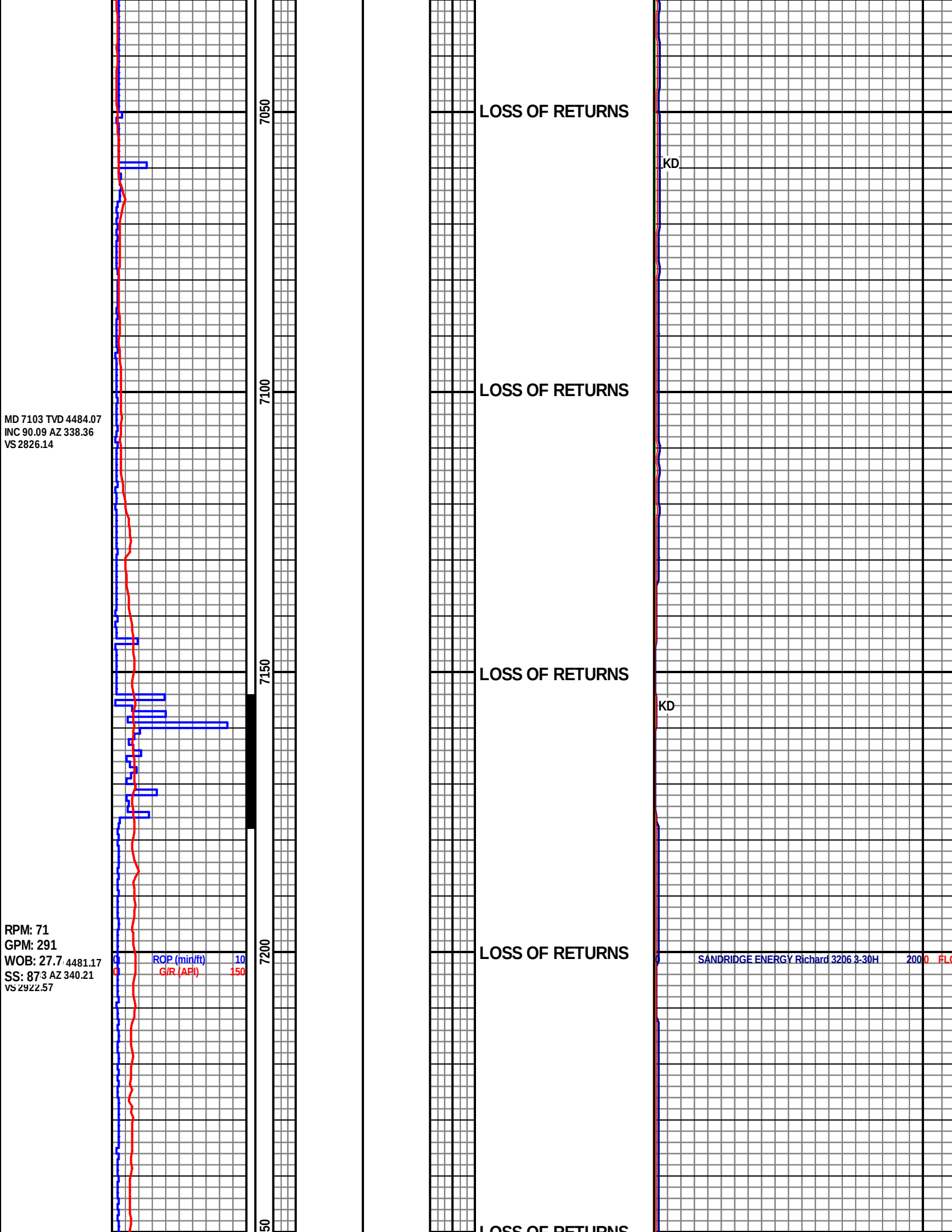
0 ROP (min/ft) 10
0 G/R (API) 150

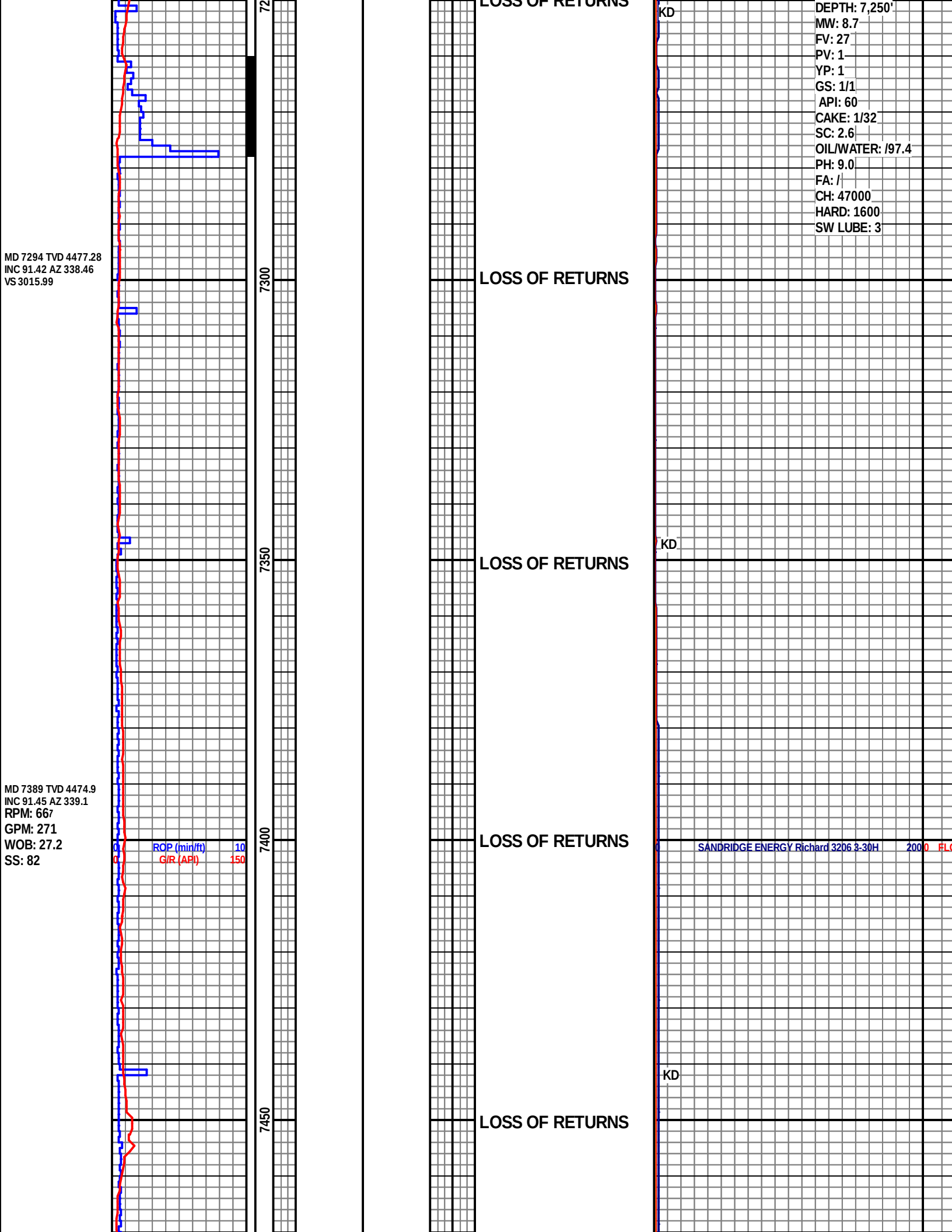
7000

LOSS OF RETURNS

0 SANDRIDGE ENERGY Richard 3206 3-30H 2000 FLO

MD 7008 TVD 4484.35
INC 90.25 AZ 339.25
VS 2731.72


7050
7100
7150
7200
LOSS OF RETURNS
LOSS OF RETURNS
LOSS OF RETURNS
LOSS OF RETURNS
LOSS OF RETURNS
KD
KD
MD 7103 TVD 4484.07
INC 90.09 AZ 338.36
VS 2826.14
RPM: 71
GPM: 291
WOB: 27.7
SS: 87
4481.17
3 AZ 340.21
VS 2922.57
0
ROP (min/ft)
10
0
G/R (API)
150
0
SANDRIDGE ENERGY Richard 3206 3-30H
2000


LOSS OF RETURNS
KD
DEPTH: 7,250'
MW: 8.7
FV: 27
PV: 1
YP: 1
GS: 1/1
API: 60
CAKE: 1/32
SC: 2.6
OIL/WATER: /97.4
PH: 9.0
FA: /
CH: 47000
HARD: 1600
SW LUBE: 3
MD 7294 TVD 4477.28
INC 91.42 AZ 338.46
VS 3015.99
7300
LOSS OF RETURNS
KD
7350
LOSS OF RETURNS
MD 7389 TVD 4474.9
INC 91.45 AZ 339.1
RPM: 667
GPM: 271
WOB: 27.2
SS: 82
ROP (min/ft) 10
G/R (API) 150
7400
LOSS OF RETURNS
SANDRIDGE ENERGY Richard 3206 3-30H
KD
7450
LOSS OF RETURNS

MD 7485 TVD 4472.47
INC 91.45 AZ 339.31
VS 3205.82

7500

LOSS OF RETURNS

KD

7550

LOSS OF RETURNS

MD 7580 TVD 4469.76
INC 91.82 AZ 340.51
VS 3300.38

RPM: 70
GPM: 280
WOB: 30.4
SS: 81

0 ROP (min/ft) 10
0 G/R (API) 150

7600

LOSS OF RETURNS

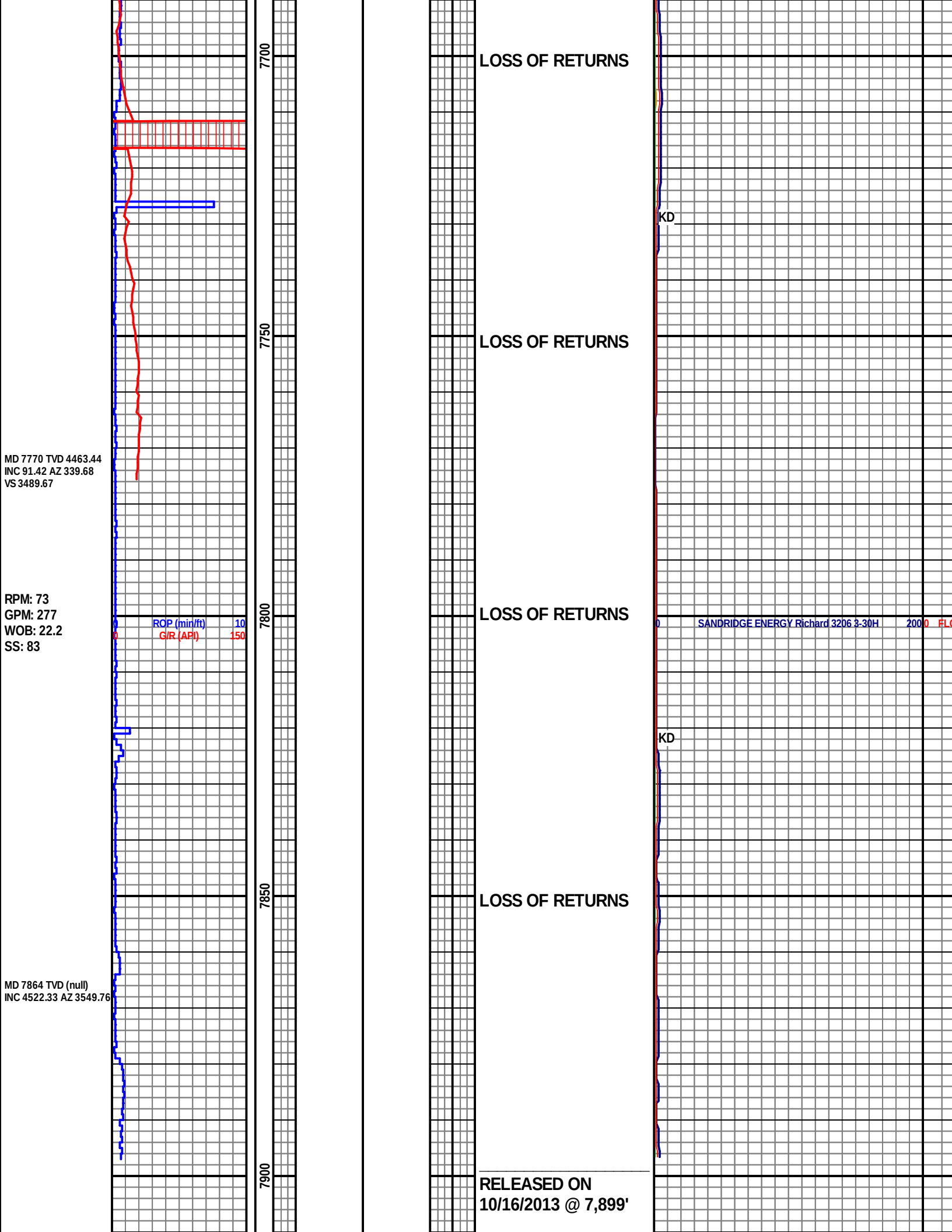
0 SANDRIDGE ENERGY Richard 3206 3-30H 2000 FLO

KD

7650

LOSS OF RETURNS

MD 7675 TVD 4466.43
INC 92.19 AZ 341.11
VS 3395.05


7700
7750
7800
7850
7900
LOSS OF RETURNS
LOSS OF RETURNS
LOSS OF RETURNS
LOSS OF RETURNS
KD
KD
MD 7770 TVD 4463.44
INC 91.42 AZ 339.68
VS 3489.67
RPM: 73
GPM: 277
WOB: 22.2
SS: 83
ROP (min/ft)
G/R (API)
10
150
SANDRIDGE ENERGY Richard 3206 3-30H
2000
MD 7864 TVD (null)
INC 4522.33 AZ 3549.76
RELEASED ON
10/16/2013 @ 7,899'

RPM:
GPM:
WOB: 0 ROP (min/ft) 10
SS: 0 G/R (API) 150

7950
8000
8050
8100

0 SANDRIDGE ENERGY Richard 3206 3-30H 2000 FLO

RPM:
GPM:
WOB:
SS:

0 ROP (min/ft) 10
0 G/R (API) 150

8150
8200
8250
8300

0 SANDRIDGE ENERGY Richard 3206 3-30H 2000 FL

RPM:
GPM:
WOB:
SS:

0 ROP (min/ft) 10
0 G/R (API) 150

83

8400

8450

8500

8550

0 SANDRIDGE ENERGY Richard 3206 3-30H 200 0 FLO

RPM:
GPM:
WOB:
SS:

0 ROP (min/ft) 10
0 G/R (API) 150

8600

8650

8700

8750

0 SANDRIDGE ENERGY Richard 3206 3-30H 2000 FLO

RPM:
GPM:
WOB:
SS:

0 ROP (min/ft) 10
0 G/R (API) 150

8800

8850

8900

8950

00

0 SANDRIDGE ENERGY Richard 3206 3-30H 2000 FLO

RPM:
GPM:
WOB:
SS: