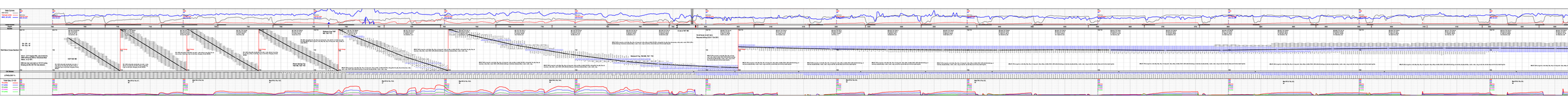

GOOLSBY BROTHERS
and associates, inc.
575 Union Blvd, Suite 208
Lakewood, CO 80228
303-945-2860 Office
Geological Wellsite
Supervision
PETCOM
www.goolsbybrothers.com

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

Well Name: D&C Farms 35N-33HZ
Location: Section 28, T1N, R67W, Weld County, CO.
License Number: API: 05-123-37890-00 Region: Wattenberg
Spud Date: 14 Oct 2013 Drilling Completed: 19 Oct2013
Surface Coordinates: 501' FSL X 1518' FWL SESW
LAT: 40.016203 LONG: -104.899452
Bottom Hole 460' FNL X 1070' FWL NWNW (Proj) Sec. 33
Coordinates: LAT: LONG: -
Ground Elevation (ft): 5008' K.B. Elevation (ft): 5024'
Logged Interval (ft): 7000' To: 12690' Total Depth (ft): 12690'
Formation: Niobrara
Type of Drilling Fluid: Polymer-Gel

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

OPERATOR

Company: Kerr-McGee Oil & Gas Onshore LP
Address: Granite Tower - 1099 18th St, Ste 1800
Denver, CO 80202
CO Geologist, Tom Birmingham

GEOLOGIST

Name: John Adams & Robin Brackman
Company: Goolsby Brothers & Assoc. (GBA), Inc. (www.goolsbybrothers.com)
Address: 575 Union Blvd.
Suite 208,
Lakewood CO. 80228

E-logs

MWD GR xxxx' - xxxxxx'
MWD IND xxxxx' - xxxxx'

Casing

9 5/8" Surface Casing set @ 1040'
7" Intermediate Casing set @ xxxx' MD, set on xx xxx 2013
& run 4 1/2" Production Liner & Packer on xx xxxx 2013.

Comments

1) Drilling Contractor: Xtreme Drilling, Rig # 23
2) Directional Drilling: Weather ford Drilling Services
MWD/LWD: Cody McCullah, Michael Nguyen
3) Gas Equipment: Mudlogging Systems Inc.
by Terra Services Redbox # ML-TGC 326 & Ratcliff Agitator

ROCK TYPES

▨ Anhy
▨ Bent
▨ Brec
▨ Cht
▨ Clyst
■ Coal

▨ Oil sat.
▨ Congl
▨ Dol
▨ Gyp
▨ Igne
▨ Lmst

▨ Meta
▨ Mrlst
▨ Salt
▨ Shale
▨ Shcol
▨ Shgy

▨ Ss
▨ Sltst
▨ Ss
▨ Chalk
▨ Carb sh
▨ Slty sh

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
- Chlkstg
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE
- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

OIL SHOWS
- Even
- Spotted
- Ques
- Dead
- Vspotty
- near even

POROSITY TYPE
- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

SORTING
- Well
- Moderate
- Poor

Bit - GR: 44'
Bit - Svy: 58'

Bit #1 8.75" Hughes PDC, Jets 3x18/3x16; MWD GR/Survey BHA w/ Directional Mud Motor; In @ 1031'.

GBA two man crew start on 10/14/13 using Striplog and ML-448 TGC Gas detector.

KOP 7025' MD

MD 7024 TVD 6970.56
INC 1.59 AZ 92.65
N 48.14 E -447.18
VS -49.78 DL 1.68

SH: (100%) dk gy-blk, sb plty-plty, occ carb, n calc, slty ip, tr ss, slt ip, fis, cly mtrx, sl lmy, tr carb frag, tr pyr, no min fluor, rthy-grsy, frm-sft, NFSOC.

MD 7110 TVD 7056.08
INC 10.15 AZ 162.6
N 40.84 E -443.71
VS -42.46 DL 11.3

SH: (100%) dk gy-blk, sb plty-plty, occ carb, n calc, slty ip, tr ss, slt ip, fis, cly mtrx, sl lmy, tr carb frag, tr pyr, no min fluor, rthy-grsy, frm-sft, NFSOC.

MD 7195 TVD 7138.42
INC 18.23 AZ 164.2
N 20.87 E -437.84
VS -22.47 DL 9.52

SH: (100%) dk gy-blk, sb plty-plty, occ carb, n calc, slty ip, tr ss, slt ip, fis, cly mtrx, sl lmy, tr carb frag, tr pyr, no min fluor, rthy-grsy, frm-sft, NFSOC.

MD 7281 TVD 7218.98
INC 22.66 AZ 168.69
N -8.34 E -430.93
VS 6.76 DL 5.46

SH: (100%) dk gy-blk, sb plty-plty, occ carb, n calc, slty ip, tr ss, slt ip, fis, cly mtrx, sl lmy, tr carb frag, tr pyr, no min fluor, rthy-grsy, frm-sft, NFSOC.

MD 7366 TVD 7293.92
INC 33.37 AZ 172.47
N -47.69 E -424.63
VS 46.13 DL 12.77

SH: (80%) dk gy-blk, frm, plty, fiss, occ sb wxy-wxy, slty, carb thr, tr vf dism pyr, calc, bnt intbd, MRLST (20%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, ip chlky, sl mttld, NSFOC.

Sharon Springs Top
7402' MD, 7323' TVD

Niobrara A top 7440'
MD, 7352' TVD

MD 7451 TVD 7360.05
INC 44.33 AZ 179.24
N -100.74 E -421.16
VS 99.2 DL 13.81

MRLST (60%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, ip chlky, sl mttld, SH (20%) v dk gy-blk, frm, plty, fiss, sb wxy-wxy, n slty, carb, v calc. CHLK: (20%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg,

MD 7537 TVD 7415.14
INC 55.86 AZ 184.23
N -166.53 E -423.4
VS 164.98 DL 14.12

MRLST (60%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, ip chlky, sl mttld, SH (20%) v dk gy-blk, frm, plty, fiss, sb wxy-wxy, n slty, carb, v calc. CHLK: (20%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg,

MD 7622 TVD 7457.13
INC 64.88 AZ 182.09
N -240.22 E -427.4
VS 238.65 DL 10.83

MRLST (60%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, ip chlky, sl mttld, SH (20%) v dk gy-blk, frm, plty, fiss, sb wxy-wxy, n slty, carb, v calc. CHLK: (20%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg,

MD 7707 TVD 7487.71
INC 72.91 AZ 181.09
N -319.43 E -429.58
VS 317.85 DL 9.51

MRLST (60%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, ip chlky, sl mttld, SH (20%) v dk gy-blk, frm, plty, fiss, sb wxy-wxy, n slty, carb, v calc. CHLK: (20%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg,

MD 7793 TVD 7510.28
INC 76.66 AZ 181.97
N -402.37 E -431.81
VS 400.78 DL 4.47

Niobrara B Top, 7843 MD, 7521' TVD

MD 7878 TVD 7527.35
INC 80.16 AZ 182.39
N -485.56 E -434.97
VS 483.96 DL 4.15

MRLST (60%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld, SH (20%) v dk gy-blk, frm, plty, fiss, sb wxy-wxy, n slty, carb, v calc. CHLK: (20%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor.

MD 7928 TVD 7534.16
INC 84.19 AZ 181.44
N -535.05 E -436.63
VS 533.45 DL 8.28

IC set at 7957' MD

TD ICP 05:45 16 OCT 2013
Resumed drilling 22:30 17 Oct 2013

MD 8022 TVD 7541.02
INC 87.44 AZ 180.7
N -628.77 E -438.38
VS 627.16 DL 3.55

MRLST (50%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld, CHLK: (50%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor.

MRLST (70%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld, CHLK: (30%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor.

MD 8107 TVD 7544.61
INC 87.72 AZ 177.89
N -713.68 E -437.33
VS 712.08 DL 3.32

MD 8192 TVD 7547.4
INC 88.52 AZ 178.88
N -798.6 E -434.94
VS 797 DL 1.5

MRLST (50%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld, CHLK: (50%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor.

MD 8278 TVD 7548.74
INC 89.69 AZ 180.41
N -884.59 E -434.4
VS 882.99 DL 2.24

MRLST (70%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld, CHLK: (30%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor.

MD 8363 TVD 7549.61
INC 89.14 AZ 177.27
N -969.55 E -432.68
VS 967.96 DL 3.75

MRLST (70%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld, CHLK: (30%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor.

MD 8448 TVD 7549.88
INC 90.49 AZ 179.29
N -1054.51 E -430.13
VS 1052.92 DL 2.86

MRLST (70%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld, CHLK: (30%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor.

MD 8534 TVD 7549.33
INC 90.25 AZ 179.79
N -1140.5 E -429.44
VS 1138.92 DL 0.64

MD 8619 TVD 7549.6
INC 89.38 AZ 177.56
N -1225.47 E -427.48
VS 1223.9 DL 2.82

MRLST (70%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld, CHLK: (30%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor.

MD 8704 TVD 7550.56
INC 89.32 AZ 180.47
N -1310.45 E -426.02
VS 1308.88 DL 3.42

MD 8790 TVD 7550.2
INC 91.17 AZ 183.79
N -1396.37 E -429.21
VS 1394.79 DL 4.42

MRLST (50%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld, CHLK: (50%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor.

MD 8875 TVD 7548.69
INC 90.86 AZ 185.33
N -1481.09 E -435.97
VS 1479.48 DL 1.85

MD 8960 TVD 7547.32
INC 90.99 AZ 185.08
N -1565.72 E -443.68
VS 1564.09 DL 0.33

MD 9045 TVD 7546.04
INC 90.74 AZ 184.6
N -1650.41 E -450.85
VS 1648.75 DL 0.64

MRLST (50%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld, CHLK: (50%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor.

MD 9131 TVD 7545.39
INC 90.12 AZ 185.25
N -1736.09 E -458.23
VS 1734.4 DL 1.04

MD 9216 TVD 7545.72
INC 89.44 AZ 185.09
N -1820.74 E -465.89
VS 1819.02 DL 0.82

MD 9301 TVD 7546.27
INC 89.81 AZ 182.6
N -1905.54 E -471.59
VS 1903.8 DL 2.96

MRLST (50%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl

Mud Wt & Vis; 9.7, 36

Mud Wt & Vis; 9.8, 37

Mud Wt & Vis; 10.0, 37

Mud Wt & Vis; 10.0, 37

Mud Wt & Vis; 10.0, 36

Mud Wt & Vis; 10.0, 38

Mud Wt & Vis; 8.9, 35

Mud Wt & Vis; 8.8, 35

Mud Wt & Vis; 8.8, 34

Mud Wt & Vis; 8.8, 36

MD 9472 TVD 7547.57
INC 89.94 AZ 180.25
N -2076.47 E -475.84
VS 2074.72 DL 1.4

MD 9557 TVD 7548.12
INC 89.94 AZ 181.44
N -2161.46 E -477.1
VS 2159.7 DL 1.58

MD 9643 TVD 7547.9
INC 90.35 AZ 182.64
N -2247.4 E -480.15
VS 2245.63 DL 1.47

MD 9728 TVD 7547.15
INC 90.67 AZ 179.5
N -2332.37 E -481.75
VS 2330.59 DL 3.71

MD 9813 TVD 7546.88
INC 89.69 AZ 180.54
N -2417.37 E -481.77
VS 2415.59 DL 1.68

MD 9899 TVD 7547.25
INC 89.82 AZ 177.03
N -2503.34 E -479.95
VS 2501.56 DL 4.08

MD 9984 TVD 7547.88
INC 89.32 AZ 176.85
N -2588.21 E -475.41
VS 2586.45 DL 0.63

MD 10069 TVD 7548.43
INC 89.94 AZ 179.51
N -2673.16 E -472.72
VS 2671.41 DL 3.21

MD 10155 TVD 7547.86
INC 90.8 AZ 180.33
N -2759.16 E -472.6
VS 2757.41 DL 1.38

MD 10240 TVD 7545.68
INC 92.16 AZ 179.8
N -2844.13 E -472.69
VS 2842.38 DL 1.72

MD 10325 TVD 7541.92
INC 92.91 AZ 177.7
N -2929.02 E -470.84
VS 2927.27 DL 2.62

MD 10411 TVD 7537.2
INC 93.39 AZ 179.76
N -3014.86 E -468.95
VS 3013.12 DL 2.48

MD 10497 TVD 7533.22
INC 91.91 AZ 178.59
N -3100.76 E -467.73
VS 3099.02 DL 2.21

MD 10581 TVD 7531.21
INC 90.88 AZ 177.85
N -3184.69 E -465.1
VS 3182.97 DL 1.51

MD 10667 TVD 7532.19
INC 87.84 AZ 179.89
N -3270.56 E -462.41
VS 3268.84 DL 4.24

MD 10752 TVD 7535.58
INC 87.59 AZ 180.8
N -3355.55 E -463.92
VS 3353.66 DL 1.11

MD 10838 TVD 7539.52
INC 87.16 AZ 179.73
N -3441.49 E -464.32
VS 3439.77 DL 1.34

MD 10923 TVD 7543.08
INC 88.03 AZ 176.28
N -3526.35 E -461.36
VS 3524.64 DL 4.18

MD 11009 TVD 7546.14
INC 87.9 AZ 178.88
N -3612.21 E -457.73
VS 3610.01 DL 3.03

MD 11094 TVD 7548.66
INC 88.68 AZ 179.82
N -3697.16 E -456.03
VS 3695.46 DL 0.94

MD 11179 TVD 7550.08
INC 89.38 AZ 175.81
N -3782.04 E -452.04
VS 3780.36 DL 3.63

MD 11264 TVD 7552.47
INC 87.41 AZ 177.09
N -3866.84 E -446.78
VS 3865.18 DL 2.76

MD 11350 TVD 7555.66
INC 88.33 AZ 177.8
N -3952.7 E -442.95
VS 3951.05 DL 1.35

MD 11435 TVD 7557.03
INC 89.82 AZ 175.37
N -4037.52 E -437.89
VS 4035.89 DL 3.35

MD 11520 TVD 7557.17
INC 90 AZ 177.35
N -4122.35 E -432.49
VS 4120.74 DL 3.34

MD 11606 TVD 7557.81
INC 89.01 AZ 178.81
N -4208.29 E -429.61
VS 4206.69 DL 2.05

MD 11691 TVD 7558.92
INC 89.63 AZ 178.57
N -4293.26 E -427.67
VS 4291.67 DL 0.78

mttld, CHLK: (50%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor.

CHLK: (40%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor, MRLST (30%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld, SH (20%) v dk gy-blk, frm, plty, fiss, sb wxy-wxy, n slty, carb, v calc, SH (30%) v dk gy-blk, frm, plty, fiss, sb wxy-wxy, n slty, carb, v calc.

SH (50%) v dk gy-blk, frm, plty, fiss, sb wxy-wxy, n slty, carb, v calc. MRLST (30%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld, CHLK: (20%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg

SH (50%) v dk gy-blk, frm, plty, fiss, sb wxy-wxy, n slty, carb, v calc. MRLST (30%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld, CHLK: (20%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg

MRLST (70%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld, CHLK: (30%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor.

MRLST (50%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld, CHLK: (50%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor.

CHLK: (60%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor, MRLST (40%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld.

CHLK: (70%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor, MRLST (30%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld.

CHLK: (50%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor, MRLST (50%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld.

CHLK: (70%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor, MRLST (30%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld.

CHLK: (70%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor, MRLST (30%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld.

CHLK: (70%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor, MRLST (30%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld.

CHLK: (70%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky,

MD 11777 TVD 7556.64
INC 90.74 AZ 182.22
N -4379.25 E -428.26
VS 4377.65 DL 4.44

MD 11862 TVD 7557.04
INC 91.42 AZ 182.47
N -4464.16 E -431.74
VS 4462.55 DL 0.85

MD 11947 TVD 7555.67
INC 90.43 AZ 181.61
N -4549.1 E -434.43
VS 4547.48 DL 1.93

MD 12033 TVD 7555.21
INC 90.18 AZ 179.91
N -4635.1 E -435.23
VS 4633.47 DL 1.48

MD 12118 TVD 7554.48
INC 90.18 AZ 180.6
N -4720.09 E -436.1
VS 4718.46 DL 1.75

MD 12203 TVD 7553.25
INC 90.86 AZ 180.49
N -4805 E -439.62
VS 4803.36 DL 2.62

MD 12289 TVD 7552
INC 90.8 AZ 180.75
N -4890.92 E -442.8
VS 4889.27 DL 3.19

MD 12374 TVD 7551.64
INC 89.69 AZ 181.64
N -4975.9 E -444.58
VS 4974.24 DL 1.67

MD 12460 TVD 7552.29
INC 89.45 AZ 182.92
N -5061.83 E -448
VS 5060.15 DL 1.51

MD 12545 TVD 7553.66
INC 88.7 AZ 181.42
N -5146.75 E -451.22
VS 5145.07 DL 1.97

MD 12638 TVD 7557.02
INC 87.16 AZ 181.42
N -5239.66 E -453.52
VS 5237.96 DL 1.66

MD 12690 TVD 7559.59
INC 87.16 AZ 181.42
N -5291.58 E -454.81
VS 5289.88 DL 0

v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor, MRLST (30%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld.

CHLK: (50%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor, MRLST (50%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld.

CHLK: (50%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor, MRLST (50%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld.

MRLST (80%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld, CHLK: (20%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor.

MRLST (80%) m gy brn, m sft, blky, flky, rthy, m hi arg cont / shly, chlky, sl mttld, CHLK: (20%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blky, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor.

	SSD	TVD	MD
Sharon Springs	-2300	7323	7402
Niobrara A	-2329	7352	7440
Niobrara B Chalk	-2497	7521	7843

TD 20:30 19 Oct 2013

Thank you
Goolsby Brothers & Assoc.