

WELLBORE DIAGRAM
NGL Water Solutions DJ LLC

NGL C1C

SESE Sec 8-T4N-R64W
 SHL: 336' FSL, 211' FEL
 BHL: 2161' FNL, 75' FEL, Sec. 17
 Weld County, CO
 05-123-40377

Current

1/6/2015
 PAG

FORMATION TOPS

MD, from Mud Log

TOC @ 1420'
 CBL 12/5/14

Niobrara - 6,960'
 Fort Hays - 7,208'
 Codell - 7,232'
 Carlile - 7,250'
 Greenhorn - 7,306'

X Bentonite - 7,550'
 J Sand - 7,725'
 Skull Creek - 7,874'
 Dakota - 7,974'
 Morrison - 8,074'

Entrada - 8,350'
 Lykins - 8,420'

Forelle - 8,792'
 Minnekahta - 8,838'

Blaine - 8,971'
 Lyons - 9,030'

L. Satanka - 9,178'

Wolfcamp - 9,444'
 Amazon - 9,494'
 Council Grove - 9,558'

Admire - 9,707'
 Virgil - 9,754'

Missouri - 9,972'
 Fountain - 10,064'

Des Moines - 10,174'

Atoka - 10,582'

Morrow - 10,750'
 TD - 10,757'

K.B. = 4721.5
 G.L. = 4706
 15.5

9-5/8", 36# J-55 ST&C CSG Set @ 704' (12-1/4" O.H.)
 Cmt'd w/ 195 sx Type III + adds (14.5 ppg, 1.41 cft/sk); 2 bbls cmt returns

DV Tool @ 7,487'
 Stage 2 Cmt'd w/ 670 sks Premium Lite Cmt (12.7 ppf, 1.86 cft/sk)
 & 110 sks 50/50 Poz mix (14.4 ppg, 1.45 yield);
 15 bbls cmt to surface (TOTAL 780 sks)

4-1/2" tbg
 EOT & Permanent Packer @ 8,870'

TOL @ 8,904'
 ECP6 @ 8949'
 7" 26# N-80 LT&C CSG Set @ 9,035' (8-3/4" O.H.)
 Cmt'd w/ 200 sx (1st stage)

ECP5 @ 9,169'

Slotted Pipe
 ECP4 @ 9,393'

Slotted Pipe Liner slotted with 2" by 0.040" slots on 6" centers

ECP3 @ 9,700'

Slotted Pipe
 ECP2 @ 10,005"

Slotted Pipe
 ECP1 @ 10,227'

Slotted Pipe

4-1/2" 11.6# N-80 LT&C Slotted LNR (TOL @ 8,904', EOL @ 10,737',
 PBTd @ 10,716') (6-1/8" O.H.)

PBTd = 10,716'
TVD = 10,688'
MD = 10,757'