



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

|                          |   |                      |          |
|--------------------------|---|----------------------|----------|
| Well Name:               | Crowder 38N-19HZ                        | Region:              | DJ Basin |
| Location:                | Weld County, CO                         | Drilling Completed:  |          |
| License Number:          | 05-123-36720                            |                      |          |
| Spud Date:               | 03/14/13                                |                      |          |
| Surface Coordinates:     | 564' FNL, 853' FEL<br>Sec 18, T2N, R65W |                      |          |
| Bottom Hole Coordinates: | 460' FSL, 196' FEL<br>Sec 19, T2N, R65W |                      |          |
| Ground Elevation (ft):   | 4952'                                   | K.B. Elevation (ft): | 4969'    |
| Logged Interval (ft):    | 6594 To: 7616'                          | Total Depth (ft):    |          |
| Formation:               | Niobrara                                |                      |          |
| Type of Drilling Fluid:  | Water Based Mud                         |                      |          |

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OPERATOR

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GEOLOGIST

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Comments

ROCK TYPES

|      |       |      |       |        |
|------|-------|------|-------|--------|
| Anhy | Clyst | Gyp  | Mrst  | Shgy   |
| Bent | Coal  | Igne | Salt  | Siltst |
| Brec | Congl | Lmst | Shale | Ss     |
| Cht  | Dol   | Meta | Shcol | Till   |

ACCESSORIES

|          |         |         |          |          |
|----------|---------|---------|----------|----------|
| MINERAL  | Gyp     | FOSSIL  | Ostra    | Siltstrg |
| Anhy     | Hvymn   | Algae   | Pelec    | Ssstrg   |
| Arggrn   | Kaol    | Amph    | Pellet   | TEXTURE  |
| Arg      | Marl    | Belm    | Pisolite | Boundst  |
| Bent     | Minxl   | Bioclst | Plant    | Chalkn   |
| Bit      | Nodule  | Brach   | Strom    | Earthy   |
| Brecfrag | Phos    | Bryozoa | STRINGER | Finexin  |
| Calc     | Pyr     | Cephal  | Anhy     | Grainst  |
| Carb     | Salt    | Coral   | Arg      | Lithogr  |
| Chtdk    | Sandy   | Crin    | Bent     | Microxln |
| Chtlt    | Silt    | Echin   | Coal     | Mudst    |
| Dol      | Sulphur | Fish    | Gyp      | Packst   |
| Feldspar | Tuff    | Foram   | Ls       | Wackest  |
| Ferrpel  |         | Fossil  | Mrst     |          |
| Glau     |         | Gastro  |          |          |
|          |         | Oolite  |          |          |

