

SWEET VALLEY FARMS UPRR 41-33 #1

| Existing Features | |
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| KB | 11 |

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| Surface csg shoe at | 336 |
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| Bottom of Foxhills (FHM) | 863 |
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| TOC (CBL) | 1686 |
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| Casing leak | 2451 |
| Casing leak squeezed with 300 sks | |

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| TOC (CBL) | 3023 |
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| Sussex Top | 4158 |
| Producing Sussex w/in 1 mile | |

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| Sussex Base | 4444 |
| DV Tool/BOC | 4556 |

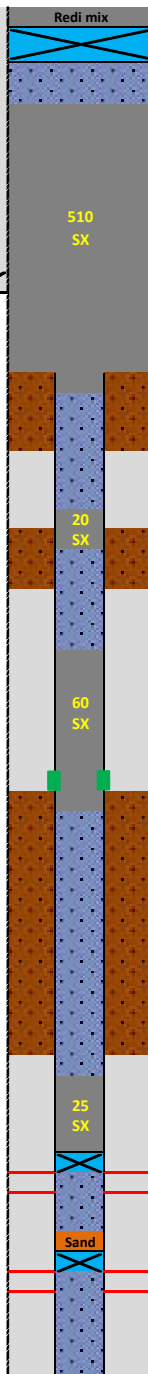
| | |
|-----------------------------------|------|
| Shannon Base | 4845 |
| Not producing Shannon w/in 1 mile | |

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| TOC (CBL) | 6316 |
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| Niobrara Top | 6944 |
| Perf Top | 6945 |
| Perf Bottom | 7134 |

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| CIBP + 2 SX Sand | 7203 |
| Codell | 7246 |
| Perf Top | 7248 |
| Perf Bottom | 7257 |

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| PBMD | 7351 |
| 4 1/2" 11.6# CSG | 7365 |



| Proposed Additions for P&A | |
|----------------------------|-----------------|
| 80 | CIBP 8 5/8" 24# |

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| 130 | TOC |
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Cement Blend: Type III w/cello flake and CaCl₂ as necessary, mixed at 14.8 ppg and 1.33 cuft/sk.

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| 970 | Casing stub |
| 1070 | Bottom of cement |

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| 2310 | TOC |
| 2560 | BOC |

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| 3950 | TOC |
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Cement Blend: "G" w/0.4% CD-32, 0.4% ASA-301, mixed at 15.8 ppg and 1.15 cuft/sk.

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| 4660 | BOC |
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| 6500 | TOC |
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Cement Blend: "G" w/20% silica flour, 0.4% CD-32, 0.4% ASA-301 and R-3 to achieve 2:30 pump time. Mixed at 15.8 ppg and 1.38 cu-ft/sk.

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|------|-------------------|
| 6890 | CIBP 4 1/2" 11.6# |
|------|-------------------|

| API# | 05-123-13001 | | | |
|-------------------|----------------|-------|-------------------|------------------------------|
| Wins: | 76226 | | | |
| Equipment | Specs. | Depth | Capacity (bbl/ft) | Capacity ft ³ /ft |
| Surface Casing | 8 5/8" (24#) | 336 | 0.0637 | 0.3576 |
| Production Casing | 4 1/2" (11.6#) | 7365 | 0.01555 | 0.0873 |
| Tubing Size | 2 3/8" (4.7#) | 6931 | 0.0039 | 0.02171 |
| Hole Size (TOP) | 11 | N/A | 0.1175 | 0.6600 |
| Annulus (TOP) | 11 | N/A | 0.0979 | 0.5495 |
| Annulus (SU/SH) | N/A | N/A | N/A | N/A |
| Annulus (NB) | N/A | N/A | N/A | N/A |

| Cement Calculations | | | | |
|---------------------|--------|----------|--------|--|
| Section | Volume | Cement | Excess | |
| Open Hole | 585.77 | 440.43 | 40% | Top Plug 11 in. OH (Caliper on file) |
| Surface casing | 73.67 | 55.39 | | |
| Production casing | 8.73 | 6.56 | | |
| FX Total | 668.17 | 502.38 | 510 | 678 |
| Open Hole | | | | Sussex Plug |
| Production casing | 61.983 | 53.89826 | | |
| Annulus | | | | |
| SX Total | 61.98 | 53.89826 | 60 | 69 |
| Open Hole | | | | Niobrara |
| Production casing | 34.05 | 24.67 | | |
| Annulus | | | | |
| NB Total | 34.05 | 24.67 | 25 | 35 |

| Cement Yield | 1.33 | 1.15 | 1.38 |
|--------------|------|-------|------|
| | FX | SX/SH | NB |

| Legend | |
|--------|---------------------------|
| | Existing cement with CBL |
| | New cement |
| | Assumed cement w/ no CBL |
| | Cast Iron Cement Retainer |
| | Cast Iron Bridge Plug |
| | Mud |
| | Water + Biocide |
| | DV Tool |