

DEEMS 1 - PROPOSED

| Existing Features | |
|-------------------|---|
| KB | 8 |

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|---------------------|-----|
| Surface csg shoe at | 430 |
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|--------------------------|------|
| Bottom of Foxhills (FHM) | 1100 |
|--------------------------|------|

| | | |
|---|-----|------|
| Sussex | Top | 4356 |
| Sussex is productive w/in 1 mile radius | | |

| | | |
|--|--|------|
| Shannon | | 4964 |
| Shannon is productive w/in 1 mile radius | | |

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| Casing Cut | 6388 |
| TOC (no CBL) | 6725 |

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| Nio Top | 7159 |
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| Sand plug w/ 10 sx cmt cap | 7144 |
| 5-1/2" CSG 15.5# | 7195 |

| | |
|-----------------|------|
| Openhole Top | 7195 |
| Openhole Bottom | 7365 |

Proposed Additions for P&A

| | |
|----|--------------------------------------|
| 80 | Redi-Mix to surface CIBP (8-5/8") |
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| 230 | TOC |
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Cement Blend: Type III w/ cello flake and CaCl₂, mixed at 14.8 ppg and 1.33 cuft/sk. with 40% excess

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| 1300 | Bottom of cement |
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|------|---------------|
| 4156 | Top of cement |
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Cement Blend: "G" w/ 0.25 pps cello flake, 0.4% CD-32, 0.4% ASA - 301, mixed at 15.8 ppg and 1.15 cuft/sk, with 20% excess used and considering hole size of 11.5".

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| 5164 | Bottom of cement |
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|------|---------------|
| 5980 | Top of cement |
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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 cuft/sk

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| 7144 | Bottom of cement |
|------|------------------|

| API# 0512309134 | | | | |
|-----------------------|--------|-------|----------|---------------------|
| Well: DEEMS 1 (H8463) | | | | |
| Equipment | Specs. | Depth | (bbl/ft) | ft ³ /ft |
| Surface | 8 5/8" | 430 | | 0.576 |
| Production | 5-1/2" | 7195 | 0.0188 | 0.1336 |
| Casing | 15.5# | | | |
| Bit Size | 7 7/8 | | 0.0238 | 0.3382 |
| Hole Size | 8.5 | | 0.0702 | 0.3941 |
| Hole Size | 10 | | 0.0971 | 0.5454 |
| Hole Size | 11.5 | | 0.1285 | 0.7213 |
| Hole Size | 13.5 | | 0.1770 | 0.9940 |

| | | | | |
|--------------|----------|-------|---------------|---------------|
| Cement Yield | 1.33 | 1.15 | 1.71 | 1.38 |
| | Top Plug | SX/SH | NB/Cd Squeeze | NB/Cd in pipe |

| Cement Calculations | | | | |
|---------------------|--------------|--------------|--------|-----------------|
| Section | Volume cu-ft | Cement Sacks | Excess | Top Plug |
| OpenHole | 1211 | 910 | 40% | 13.5" hole |
| In pipe | 115 | 87 | | caliper at 4200 |
| Total Top Plug | 1326 | 997 | 1000 | |
| round up | 1330 | 1000 | | |

| | | | | |
|----------|------|------|------|-------------|
| openhole | 1202 | 1046 | 20% | SX/ SH Plug |
| In pipe | | | | 13.5" HOLE |
| Total | 1202 | 1046 | 1050 | caliper |
| round up | 1208 | | | |

| Legend | |
|--------|---------------------------|
| | New cement |
| | Existing cement with CBL |
| | assumed cement w/ no CBL |
| | cast iron cement retainer |
| | cast iron bridge plug |
| | mud |
| | Water |
| | sand |

| | cu-ft | sacks | | |
|------------|-------|-------|-----|------------|
| NB/CD OH | 193 | 140 | 20% | 8.5" Hole |
| NB/CD Csg. | 101 | 59 | | NB/CD Plug |
| Total | 294 | 199 | 200 | |
| round up | 342 | 200 | | |