

OSTER 15-11

| Existing Features | |
|-------------------|----|
| KB | 11 |

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| Surface csg shoe at | 360 |
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| Bottom of Foxhills (FHM) | 756 |
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| BOC (CBL will be run on rig) | 3996 |
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| Sussex | Top | 4078 |
| | Btm | 4264 |

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| No sussex production w/in 1 mile radius | | |
| Shannon | Bottom | 4701 |
| No shannon production w/in 1 mile radius | | |

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| TOC Primary existing (CBL) | 6380 |
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| Nibrara | Top | 6580 |
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| Geologic Top | | |
| Codell | Perf Top | 7180 |
| | Perf Bottom | 7192 |

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| PBMD | 7301 |
| 4-1/2" CSG 15.1# | 7365 |

Proposed Additions for P&A

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| 150 | CIBP (4-1/2") |
| 160 | TOC |

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

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| 960 | Fox Hills BOC |
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|------|----------------------------|
| 3820 | TOC in csg |
| 4006 | Top SQZ Hole (Pending CBL) |
| 4040 | CICR |

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| 4310 | Bottom SQZ HOLE |
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Sussex 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 9" hole and 20% excess

NB Cement Blend: 50/50 Poz "G" w/ 20% silica flour, 3% gel, 0.1% sodium metasilicate and 0.4% FL-52. Mixed at 13.5 ppg and 1.71 cuft/ sk yield with 20% excess and 8.25" hole size.

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|------|--------------|
| 5800 | TOC in csg |
| 5970 | Top SQZ Hole |
| 6010 | CICR |

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| 6370 | Bottom SQZ Hole |
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| 7090 | CIBP w/ 2 sk cmt cap |
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| API# 0512317426 | | | | |
|---------------------------|--------------|-------|-------------------|------------------------------|
| Well: OSTER 15-11 (23737) | | | | |
| Equipment | Specs. | Depth | Capacity (bbl/ft) | Capacity ft ³ /ft |
| Surface Casina | 8 5/8" 24# | 360 | 0.0637 | 0.3576 |
| Production Casina | 4.50 (15.1#) | 7330 | 0.0142 | 0.0798 |
| Tubing Size | | | | |
| Bit Size | 7 7/8 | | 0.0602 | 0.3382 |
| Hole Size | 8.25 | | 0.0661 | 0.3712 |
| Hole Size | 9 | | 0.0787 | 0.4418 |
| Hole Size | | | 0.0000 | 0.0000 |

| Cement Calculations | | | | |
|---------------------|--------------|--------------|--------|----------|
| Section | Volume cu-ft | Cement Sacks | Excess | Top Plug |
| In Pipe | 63.84 | 48.00 | | |
| Total Top Plug | 63.84 | 48.00 | 50 | |
| | 66.5 | cu-ft | | |

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|---------|--------|--------|-----|-------------|
| Csg Top | 17.56 | 15.27 | | SX/ SH Plug |
| Annulus | 120.87 | 105.11 | 20% | |
| Csg Out | 21.55 | 18.74 | | 9" Caliper |
| Total | 159.97 | 139.11 | 140 | |
| | 161 | cu-ft | | |

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

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|---------------|--------|-------|-----|---------------|
| NB csg top | 16.76 | 9.80 | | NB/CD Plug |
| NB/CD Annular | 125.17 | 73.20 | 20% | 8.25" Caliper |
| NB csg out | 28.73 | 16.80 | | |
| Total | 170.66 | 99.80 | 100 | |
| | 171 | | | |

| Legend | |
|--------|---------------------------|
| | New cement |
| | Existing cement with CBL |
| | assumed cement w/ no CBL |
| | cast iron cement retainer |
| | cast iron bridge plug |
| | mud |
| | 2% KCL Water |

