

ROCKY MOUNTAIN FUEL V V 8-4JI (H6142)

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

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| Surface csg shoe at | 796 |
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| Bottom of Foxhills | 1262 |
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| TOC | 4420 |
| Sussex Top | 4643 |
| Productive within 1 mile | |
| BOC / Cement Stage Tool | 5074 |

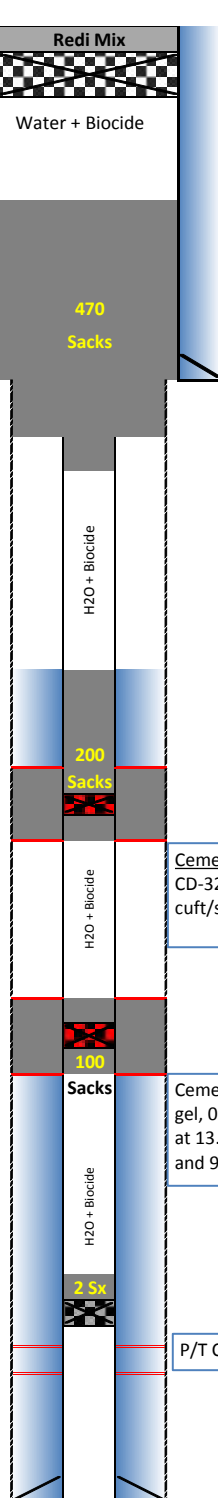
| | |
|--------------------------|------|
| Shannon Bottom | 5220 |
| Productive within 1 mile | |

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| TOC Existing | 7182 |
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| NIO Geologic Top | 7416 |
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| Geologic Top | 8180 |
| Perf Top | 8179 |
| J SAND Perf Bottom | 8206 |

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| PBMD | 8290 |
| BOC Cement existing | 8304 |
| 4-1/2" CSG. 13.5# | 8304 |



Proposed Additions for P&A

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| 80 | CIBP w/ redi mix |
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| 600 | TOC |
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Cement Blend: Type III w/ cello flake and CaCl₂, mixed at 14.0 ppg and 1.53 cuft/sk with 20% excess and 12" hole size.

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|------|-------------|
| 1460 | Casing Stub |
| 1560 | BOC |

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| 4420 | Top of in pipe cement |
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| 5100 | Top Squeeze Perf |
| 5130 | CICR (5-1/2") |
| 5400 | Bottom Squeeze Perf |

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 and 9" hole size

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| 6800 | Top Squeeze Perf |
| 6830 | CICR (5-1/2") |
| 7100 | Bottom Squeeze Perf |

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 9" hole size.

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| 8120 | CIBP (5-1/2") |
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P/T CIBP to 1000 psi and dump 2 sacks of cement

| API# | | 0512319680 | | | |
|-------------------|--------------|---------------------------------------|-------------------|------------------------------|--|
| Well: | | ROCKY MOUNTAIN FUEL V V 8-4JI (H6142) | | | |
| Equipment | Specs. | Depth | Capacity (bbl/ft) | Capacity ft ³ /ft | |
| Surface Casing | 8 5/8" 24# | 796 | 0.0637 | 0.3576 | |
| Production Casing | 4-1/2" 13.5# | 8304 | 0.0149 | 0.0838 | |
| Tubing String | 2-3/8" | 8160 | N/A | N/A | |
| Hole Size | 9" | | 0.0787 | 0.4418 | |
| Hole Size | 11" | | 0.1175 | 0.66 | |
| Hole Size | 12" | | 0.1399 | 0.7854 | |

| Cement Calculations | | | | |
|---------------------|--------|--------------|-------------|---------------|
| Section | Volume | Cement Sacks | approximate | Top Plug |
| S/C hole | 70.09 | 45.81 | | 12" hole size |
| 12" hole | 625.81 | 409.02 | 20% excess | |
| P/C hole | 8.38 | 5.48 | | |
| Total Top Plug | 704.28 | 460.31 | 470 | |

| | | | | |
|--------------|--------|--------|------------|--------------------------|
| Annular Hole | 128.88 | 112.07 | | SX/ SH Plug 9" hole size |
| In pipe | 82.12 | 71.41 | 20% excess | |
| Total | | 183.48 | 200 | |

| | | | | |
|---------------|--------|-------|------------|--------------------|
| NB/CD Annular | 128.88 | 75.37 | 20% excess | NB/CD Plug 9" hole |
| NB/CD Csg. | 25.14 | 14.70 | | |
| Total | | 90.07 | 100 | |

| | | | | |
|--------------|-------|------------|---------------|------|
| Cement Yield | 1.53 | 1.15 | 1.71 | 1.38 |
| Top Plug | SX/SH | NB/CD Sque | NB/CD in pipe | |

| Legend | |
|--------|---------------------------|
| | Existing Cement |
| | new proposed cement |
| | cast iron cement retainer |
| | cast iron bridge plug |