

Well Name: Federal 36-1H (ON1)

Location: Piceance Basin, Colorado
Field: Mt. Logan
API#: 05045207920000
Surface Location: SESW Sec 1-T8S-R97W 6th PM
BH Location: SESE Sec 35-T7S-R97W 6th PM
KB: 22 ft
TD: 16,658 ft
Float Collar: 16,588 ft
80 deg Dev @: 7770 ft
KOP: 5700 ft
Average TVD: 8746 ft

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| Conductor: | 20.0" 53# A53D Grade |
| Set at: | 40 ft |
| Top of Cement: | Surface |

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| Surface Casing: | 10.75" 40.5# J-55 ST&C |
| Set at: | 1,536 ft |
| Top of Cement: | Surface |

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| Intermediate Casing: | 7-5/8" 26.4# P110 LT&C |
| Set at: | 7,313 ft |
| Inclination at Interm. CSG Point: | 18 deg |
| Burst Pressure: | 9,470 psi (75% = 7,102 psi) |
| Top of Cement (Stage 1): | 3,050 ft DV Tool: 3012" MD |
| Top of Cement (Stage 2): | 2,075 ft |

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| Production Casing: | 5.0" 23.3# VAM Top/Top-HT P110 |
| Inside Diameter: | 4.044" Drift: 3.919" |
| Set at: | 16,637 ft |
| TVD Average: | 8,746 ft |
| Burst Pressure: | 18,400 psi (80% = 14,720 psi) |
| Top of Cement: | 6,350 ft (From 09/26/11 CBL) |

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| Production Tubing: | |
| Set at: | Not set yet |

