**Technical data of wells for the Gravel pack job**

**UGS Štramberk**

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| Well | Production csg. (“) | Mater. of csg. | Wall thickness (mm) | Shoe of production csg.(m) | Horizon  OH (m) | Type of horizon opening | Shoe of well  (m) | Required size of screen (“,base pipe) | Slot (mm) | Size of gravel sand (mm) | Type of horizon | Permeability  (mD) | Porosity (%) |
| Tv 2 | 6 5/8 | J-55 | 7,32 | 571,61 | 538,2 – 545,7 | Open Hole  (Ø 330 mm) | 549,5 | 3 ½ | 0,25 | 0,5 – 1,2 | Sandstone | 408 | 11 |

- The horizon OH was open by milling of casing from 538,2 to 545,7 m

- Active part of screens have to be located 2 m above and below OH horizon

- For the bid calculate 2 m3 of gravel pack sand for Tv 2

**UGS Lobodice**

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| Well | Production csg. (“) | Mater. of csg. | Wall thickness (mm) | Shoe of production csg.(m) | Horizon  OH (m) | Type of horizon opening | Shoe of well  (m) | Required size of screen (“,base pipe) | Slot (mm) | Size of gravel sand (mm) | Type of horizon | Permeability  (mD) | Porosity (%) |
| Lo 28 | 5 1/2 | J-55 | 6,98 | 485 | 471 - 477 | Open Hole  (Ø 280 mm) | 485 | 2 7/8 | 0,25 | 0,4 – 0,8 | The lower basal clastics,  fine-grained gravel/conglomerate | 673 | 19,1 |

- The horizon OH was open by milling of casing from 471 to 477 m

- Active part of screens have to be located 1,5 m above and below OH horizon

- For the bid calculate 1 m3 of gravel pack sand for Lo 28

**UGS Třanovice**

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| Well | Production csg. (“) | Mater. of csg. | Wall thickness (mm) | Shoe of production csg.(m) | Horizon  OH (m) | Type of horizon opening | Shoe of well  (m) | Required size of screen (“,base pipe) | Slot (mm) | Size of gravel sand (mm) | Type of horizon | Permeability  (mD) | Porosity (%) |
| Ts 7 | 7 | J-55 | 9,19 | 427,1 | 409,9 – 497,7 | Open Hole  (Ø 330 mm) | 501,0 | 3 ½ | 0,4 | 0,6 – 1,2 | Sandstone, conglomerate | 57 | 13 |
| Ts 9 | 7 | J-55 | 9,19 | 430,2 | 419,0 – 485,0 | Open Hole  (Ø 330 mm) | 486,0 | 3 ½ | 0,4 | 0,6 – 1,2 | 45 | 13 |
| Ts 12 | 7 | J-55 | 9,19 | 395,1 | 418,5 - 460 | Open Hole  (Ø 330 mm) | 464,0 | 3 ½ | 0,4 | 0,6 – 1,2 | 45 | 14,5 |

- Active part of screens have to be at least the same us is OH horizon

- For the bid calculate 9 m3 of gravel pack sand for Ts 7

- For the bid calculate 7,5 m3 of gravel pack sand for Ts 9

- For the bid calculate 5,5 m3 of gravel pack sand for Ts 12

**UGS Tvrdonice**

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| Well | Production csg. (“) | Mater. of csg. | Wall thickness (mm) | Shoe of production csg.(m) | Horizon  (m) | Type of horizon opening | Shoe of well  (m) | Required size of screen (“,base pipe) | Slot (mm) | Size of gravel (mm) | Type of horizon | Permeability  (mD) | Porosity (%) |
| Z 19 | 6 5/8 | J-55 | 7,32 | 1266,7 | 1240,42 – 1266,50 | Perforation | 1266,7 | 2 7/8 | 0,25 | 0,5 – 1,2 | Unconsolidated fine sandstone | 202,134 | 16,89 |
| Z 24 | 7 | J-55 | 9,19 | 1268,0 | 1246,6 – 1253,9  1257,5 – 1262,3 | Perforation | 1265,0 | 2 7/8 | 0,25 | 0,5 – 1,2 | 432,26 | 26,50 |
| Z 34 | 7 | J-55 | 9,19 | 1108,0 | 1096,6 – 1106,0 | Perforation | 1107,9 | 2 7/8 | 0,25 | 0,4 – 0,8 | 238,26 | 27,40 |

- Active part of screens have to be located at least 1,5 m above and below horizon

- Each screens completed with 1 m pup joint below screens

- For the bid calculate 2 m3 of gravel pack sand for Z 19

- For the bid calculate 2 m3 of gravel pack sand for Z 24

- For the bid calculate 2 m3 of gravel pack sand for Z 34