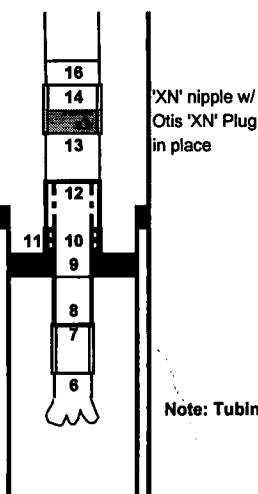


# RANGER OIL LIMITED

## EXPANDED DOWNHOLE WELL PERFORATION PROFILE

Date: 03-Feb-99



| Perforation Interval (top down) |         |         |        |
|---------------------------------|---------|---------|--------|
| Designation                     | Top     | Bottom  | Length |
| K                               | 3115.00 | 3122.00 | 7.00   |
| J                               | 3125.00 | 3130.00 | 5.00   |
| I                               | 3134.00 | 3148.00 | 14.00  |
| H                               | 3152.00 | 3159.00 | 7.00   |
| G                               | 3165.00 | 3172.00 | 7.00   |
| F                               | 3234.00 | 3248.00 | 14.00  |
| E                               | 3260.00 | 3272.00 | 12.00  |
| D                               | 3276.00 | 3280.00 | 4.00   |
| C                               | 3285.00 | 3292.00 | 7.00   |
| B                               | 3295.00 | 3302.00 | 7.00   |
| A                               | 3324.00 | 3334.00 | 10.00  |
| A1                              | 3349.00 | 3356.00 | 7.00   |

3115.00 K Upper Nihanni  
3122.00

3125.00 J  
3130.00

3134.00 I  
3148.00

3152.00 H  
3159.00

3165.00 G Perforations  
3172.00

3234.00 F Middle Nihanni  
3248.00

3260.00 E  
3272.00

3276.00 D  
3280.00

3285.00 C  
3292.00

3295.00 B Perforations  
3302.00

3324.00 A Lower Nihanni  
3334.00

3349.00 A1 Perforations  
3356.00

3394.40 5 Dropped

3399.68 4 Tailjoint

3404.00 3 Tools

3482.00 2 Dropped

3482.00 1 Gun

3482.00 PBT TD

| FINAL TUBING STRING (Bottom Up)        |                                                                        |            |         |
|----------------------------------------|------------------------------------------------------------------------|------------|---------|
| Item                                   | Description                                                            | Length (m) | Top mKB |
| 6                                      | 1 - 73mm x 2.99m L-80 NS-CT pup jt @ 9.67kg/m                          | 2.99       | 3074.27 |
| 7                                      | 1 - 73mm x .30m INCOLOY 925 NSCT Otis 'X' nipple w/58.75mm profile.    | 0.30       | 3073.97 |
| 8                                      | 1 - 73mm x 1.06m INCOLOY 925 NSCT pup jt @ 9.67kg/m down.              | 1.06       | 3072.91 |
| 9                                      | 1 - 73mm x 177.8mm x 1.65 m INCOLOY 925 Halliburton 'BWB' perm packer  | 1.65       | 3071.26 |
| 10                                     | 1 - 73mm x .17m Otis mule shoe re-entry guide                          | 0.17       | 3071.09 |
| 11                                     | 2 - 73mm x .43m (.86m total) Otis VTR Seal unit                        | 0.43       | 3070.66 |
| 12                                     | 1 - 177.8mmx88.9mmx.46m Halliburton J-Slot latching head w/NSCT tread. | 0.46       | 3070.20 |
| 13                                     | 1 - 88.9mm L-80 NSCT tubing jt @ 13.69kg/m                             | 9.50       | 3060.70 |
| 14                                     | 1 - 88.9mm Otis 'XN' nipple w/69.85mm profile & 66.93mm No-Go.         | 0.31       | 3060.39 |
| 15                                     | 1 - 88.9mm x 3.03m L-80 NSCT pup jt @ 13.69kg/m                        | 3.09       | 3057.30 |
| 16                                     | 166 - 88.9mm L-80 NSCT tubing jts @ 13.69kg/m                          | 1559.17    | 1498.13 |
| 17                                     | 1 - 88.9mm Otis 'X' nipple w/71.45mm profile. (Landed 1500m @ 12.7")   | 0.39       | 1497.74 |
| 18                                     | 1 - 88.9mm x 3.03m L-80 NSCT pup jt @ 13.69kg/m                        | 3.03       | 1494.71 |
| 19                                     | 157 - 88.9mm L-80 NSCT tubing jts @ 13.69kg/m                          | 1474.63    | 20.08   |
| 20                                     | 1 - 88.9mm x 1.73m L-80 NSCT pup jt @ 13.69kg/m                        | 1.73       | 18.35   |
| 21                                     | 1 - 88.9mm L-80 NSCT tubing jt @ 13.69kg/m                             | 9.50       | 8.85    |
| 22                                     | 1 - 88.9mm Tubing Hanger                                               | 0.25       | 8.60    |
| Dropped tools - Top Down               |                                                                        |            |         |
| 5                                      | 1 - 73mm x .31m Otis 'R' nipple w/55.58mm profile. EUE pin x NSCT box  | 0.31       | 3394.40 |
| 4                                      | 1 - 73mm x 1.24m L-80 EUE perforated nipple @ 9.67kg/m                 | 1.24       | 3394.71 |
| 3                                      | 1 - 73mm x 3.04m L-80 EUE pup jt @ 9.67kg/m                            | 3.04       | 3395.95 |
| 2                                      | 1 - 73mm x .49m Otis 'RN' EUE nipple w/55.58 profile & 51.05mm No-Go.  | 0.59       | 3398.99 |
| 1                                      | 1 - 73mm x .10m Otis wireline re-entry guide w/EUE thread.             | 0.10       | 3399.58 |
| Total String Length (m) (Item 6 to 22) |                                                                        | 3068.66    |         |
| KB to Tubing Hanger Flange             |                                                                        | 8.60       |         |
| Tubing Landed Depth (mKB)              |                                                                        | 3077.26    |         |

| Tubing Weight        | 41646 | daN      | Wt. on Packer | 9000  | daN   | Wt. on Hanger | 32646 | daN |
|----------------------|-------|----------|---------------|-------|-------|---------------|-------|-----|
| Wellhead             | Make: | Rector   | W.P.          | 35MPa | Type: | Flanged       |       |     |
| Dual Master Valve    | Make: | Rector   | W.P.          | 35MPa | Type: | Flanged       |       |     |
|                      | Size: | 79.375mm | Trim          | A487  |       |               |       |     |
| Casing Valves        | Make: | Rector   | W.P.          | 35MPa | Type: | Flanged       |       |     |
|                      | Size: | 79.375mm | Trim          | A487  |       |               |       |     |
| Choke                | Make: | N/A      |               |       |       |               |       |     |
| Surf. Casing Status: |       |          |               |       |       |               |       |     |

**Well Status:** Temporary well suspension effective feb. 19, 1999.  
The tubing is suspended w/an Otis 'XN' plug landed in the 'XN' nipple @ 3060.39. The tubing was filled w/inhibited water, topped w/methanol & pressure tested to 21MPa. Installed a backpressure valve in the dognut. Secured.  
The 88.9/244.5/177.8mm annulus is filled w/inhibited water, topped w/diesel and pressure tested to 21MPa.

**NOTE:** Dropped tools were tagged w/coil tubing and do not represent a logged depth.