

Fission Hits Continuous 102.5M @ 5.98% U3O8; Widest High-Grade Interval to date at PLS

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KELOWNA, BRITISH COLUMBIA--(Marketwired - Apr 22, 2014) - **FISSION URANIUM CORP.** (TSX VENTURE:FCU)(OTCQX:FCUUF)(FRANKFURT:2FU) ("**Fission**" or "**the Company**") is pleased to announce assay results from nine holes drilled in the R780E zone at its Patterson Lake South (PLS) property in Saskatchewan's Athabasca Basin, Canada. Of exceptional note is hole PLS14-187, located on line 660E. With intermittent mineralization starting at the shallow depth of just 58.50m, and continuous mineralization from 63.0m, the hole returned a **continuous 102.5m interval of 5.98% U3O8 - the widest high-grade interval to date at PLS**. A lower interval of substantial mineralization followed, yielding 1.63% U3O8 over 15.0m.

With a composite Grade %U3O8 x Thickness in meters (GT) value of 613 for the upper interval, PLS14-187 is the second strongest mineralized hole to date at PLS. It is surpassed only by hole PLS14-129 which included intervals such as 38.0m @ 13.66% U3O8 and 31.5m @ 11.19% U3O8 (see NR March 24, 2014). All nine holes returned wide intervals of mineralization.

Assay Highlights

PLS14-187 (Line 660E)

• 102.5m (63.0m to 165.5m) @ 5.98% U3O8, including:

3.0m (68.0m to 71.0) @ 27.20% U3O8, and

10.5m (78.0m to 88.5m) @ 12.93% U3O8, and

6.0m (108.5m to 114.5m) @ 14.12% U3O8, and

2.5m (143.5m to 146.0m) @ 16.92% U3O8, and

4.5m (152.5m to 157.0m) @ 16.14% U3O8

• 15.0m (216.5m to 231.5m) @ 1.63% U3O8, including

9.0m (218.5m to 227.5m) @ 2.59% U3O8

PLS14-146 (Line 915E)

• 47.0m (132.0m to 179.0m) @ 2.18% U3O8, including:

3.0m (163.0m to 166.0m) @ 4.30% U3O8, and:

2.0m (171.5m to 173.5m) @ 14.27% U3O8

PLS14-145 (Line 825E)

• 22.5m (132.0m to 154.5m) @ 0.97% U3O8, including:

7.5m (144.0m to 151.5m) @ 2.24% U3O8

Ross McElroy, President, COO, and Chief Geologist for Fission, commented,

"This is a superb set of assays, which highlights the remarkable growth rate of the PLS discovery so far and the continued potential of its mineralized system. With 102.5m at 5.98% U3O8, PLS14-187 in particular is an exceptional hole and represents a tremendous amount of high-grade mineralization. We are delighted by these results."

Composited % U3O8 mineralized intervals are summarized in Table 1 below. Samples from the drill core are split in half sections on site. Where possible, samples are standardized at 0.5m down-hole intervals. One-half of the split sample is sent to SRC Geoanalytical Laboratories (an SCC ISO/IEC 17025: 2005 Accredited Facility) in Saskatoon, SK for analysis which includes U3O8 (wt %) and fire assay for gold, while the other half remains on site for reference. All analysis include a 63 element ICP-OES, uranium by fluorimetry and boron. All depth measurements reported, including sample and interval widths are down-hole, core interval measurements and true thickness are yet to be determined.

Table 1

Composited Mineralized Intervals (Down-hole measurements)

| Zone | Hole ID | Grid Line | From (m) | To (m) | Interval (m) | U3O8 (wt%) |
|-----------|-----------|-----------|----------|--------|--------------|------------|
| R780E | PLS14-138 | 285E | 73.00 | 107.00 | 34.00 | 0.20 |
| | | | 109.50 | 110.00 | 0.50 | 0.06 |
| | | | 113.00 | 116.00 | 3.00 | 0.17 |
| | | | 123.00 | 128.00 | 5.00 | 0.21 |
| | | | 131.50 | 135.00 | 3.50 | 0.16 |
| | | | 137.50 | 141.00 | 3.50 | 0.40 |
| | | | 150.50 | 152.00 | 1.50 | 0.09 |
| | | | 165.00 | 167.00 | 2.00 | 0.67 |
| | | | 170.00 | 187.00 | 17.00 | 1.04 |
| | | | 173.50 | 178.00 | 4.50 | 2.88 |
| PLS14-139 | 585E | 585E | 66.00 | 67.50 | 1.50 | 0.05 |
| | | | 119.50 | 126.50 | 7.00 | 0.15 |
| | | | 130.00 | 160.00 | 30.00 | 0.15 |
| | | | 199.00 | 207.50 | 8.50 | 0.28 |
| PLS14-140 | 780E | 780E | 191.00 | 198.00 | 7.00 | 0.16 |
| | | | 202.00 | 207.50 | 5.50 | 0.07 |
| | | | 217.50 | 218.00 | 0.50 | 0.05 |
| | | | 225.50 | 245.00 | 19.50 | 0.10 |
| | | | 250.50 | 251.00 | 0.50 | 0.36 |
| | | | 254.50 | 262.00 | 7.50 | 0.28 |
| | | | 264.50 | 271.00 | 6.50 | 0.09 |
| | | | 302.00 | 304.50 | 2.50 | 0.15 |
| | | | 374.50 | 375.00 | 0.50 | 0.06 |
| | | | 377.50 | 378.00 | 0.50 | 0.09 |
| 408.00 | 415.00 | 7.00 | 0.18 | | | |
| PLS14-142 | 480E | 480E | 87.50 | 90.00 | 2.50 | 0.06 |
| | | | 130.50 | 141.00 | 10.50 | 0.08 |
| | | | 143.50 | 150.00 | 6.50 | 0.05 |
| | | | 154.50 | 177.50 | 23.00 | 0.09 |
| | | | 181.00 | 181.50 | 0.50 | 0.06 |
| | | | 218.00 | 218.50 | 0.50 | 0.06 |
| 306.50 | 307.00 | 0.50 | 0.06 | | | |
| PLS14-145 | 825E | 825E | 78.00 | 79.50 | 1.50 | 0.08 |
| | | | 89.50 | 117.00 | 27.50 | 0.13 |
| | | | 120.00 | 120.50 | 0.50 | 0.10 |
| | | | 122.50 | 124.00 | 1.50 | 0.05 |
| | | | 126.50 | 128.00 | 1.50 | 0.09 |
| | | | 132.00 | 154.50 | 22.50 | 0.97 |
| | | | 144.00 | 151.50 | 7.50 | 2.24 |
| | | | 159.00 | 160.00 | 1.00 | 0.28 |
| | | | 171.00 | 172.50 | 1.50 | 0.36 |
| | | | 175.00 | 176.00 | 1.00 | 0.07 |
| | | | 178.50 | 181.00 | 2.50 | 1.34 |
| | | | 183.50 | 184.00 | 0.50 | 0.15 |
| | | | 188.50 | 189.00 | 0.50 | 0.10 |
| | | | 192.50 | 193.00 | 0.50 | 0.14 |
| | | | 199.00 | 199.50 | 0.50 | 0.13 |
| | | | 203.50 | 211.00 | 7.50 | 0.40 |
| | | | 213.50 | 214.50 | 1.00 | 0.05 |
| | | | 218.00 | 226.00 | 8.00 | 0.22 |
| | | | 279.00 | 279.50 | 0.50 | 0.17 |
| | | | 283.00 | 284.50 | 1.50 | 0.37 |
| 291.50 | 294.50 | 3.00 | 0.04 | | | |
| 316.00 | 317.50 | 1.50 | 0.12 | | | |
| 320.50 | 321.00 | 0.50 | 0.16 | | | |
| 330.00 | 330.50 | 0.50 | 0.07 | | | |
| 347.50 | 348.00 | 0.50 | 0.08 | | | |
| PLS14-146 | 915E | 915E | 125.00 | 129.00 | 4.00 | 0.07 |
| | | | 132.00 | 179.00 | 47.00 | 2.18 |
| | | | 163.00 | 166.00 | 3.00 | 4.30 |
| | | | 171.50 | 173.50 | 2.00 | 14.27 |
| | | | 181.50 | 184.50 | 3.00 | 1.17 |
| | | | 202.50 | 203.00 | 0.50 | 0.07 |

| | | | | | |
|-----------|------|--------|--------|--------|-------|
| | | 212.00 | 213.50 | 1.50 | 0.09 |
| | | 216.50 | 217.50 | 1.00 | 0.49 |
| | | 222.50 | 225.00 | 2.50 | 0.46 |
| | | 237.00 | 241.00 | 4.00 | 1.04 |
| | | 239.00 | 240.00 | 1.00 | 3.64 |
| | | 254.00 | 256.00 | 2.00 | 3.19 |
| | | 259.50 | 264.00 | 4.50 | 0.11 |
| | | 272.00 | 273.50 | 1.50 | 0.15 |
| | | 363.00 | 369.00 | 6.00 | 0.16 |
| PLS14-147 | 615E | 112.00 | 112.50 | 0.50 | 0.10 |
| | | 115.00 | 143.50 | 28.50 | 0.15 |
| | | 146.00 | 150.50 | 4.50 | 0.10 |
| | | 154.00 | 161.00 | 7.00 | 0.18 |
| | | 164.50 | 165.00 | 0.50 | 0.06 |
| | | 198.00 | 201.50 | 3.50 | 0.08 |
| | | 208.50 | 209.00 | 0.50 | 0.08 |
| | | 212.00 | 212.50 | 0.50 | 0.06 |
| | | 221.00 | 222.00 | 1.00 | 0.08 |
| PLS14-151 | 615E | 117.00 | 117.50 | 0.50 | 0.08 |
| | | 120.00 | 121.50 | 1.50 | 0.12 |
| | | 125.50 | 131.50 | 6.00 | 0.31 |
| | | 137.00 | 139.50 | 2.50 | 0.11 |
| | | 144.50 | 148.00 | 3.50 | 0.12 |
| | | 213.00 | 215.50 | 2.50 | 0.61 |
| | | 222.50 | 225.50 | 3.00 | 0.11 |
| PLS14-187 | 660E | 58.50 | 60.50 | 2.00 | 0.06 |
| | | 63.00 | 165.50 | 102.50 | 5.98 |
| | | 68.00 | 71.00 | 3.00 | 27.20 |
| | | 78.00 | 88.50 | 10.50 | 12.93 |
| | | 108.50 | 114.50 | 6.00 | 14.12 |
| | | 143.50 | 146.00 | 2.50 | 16.92 |
| | | 152.50 | 157.00 | 4.50 | 16.14 |
| | | 190.00 | 194.50 | 4.50 | 0.08 |
| | | 198.00 | 201.50 | 3.50 | 0.21 |
| | | 204.00 | 212.00 | 8.00 | 0.09 |
| | | 216.50 | 231.50 | 15.00 | 1.63 |
| | | 218.50 | 227.50 | 9.00 | 2.59 |

Composite Parameters

1. Minimum Thickness: 0.50m
2. Grade Cut-Off: 0.05 U3O8 (wt%)
3. Maximum Internal Dilution: 2.00m

PLS Mineralized Trend Summary

Uranium mineralization at PLS has been traced by core drilling over 2.24km of east-west strike length in five separate mineralized "zones" from line 615W (PLS13-124) to line 1620E (PLS14-196). From west to east, these zones are; R600W, R00E, R780E, R1155E and R1620E. The former R390E, R585 and R945E zones have been merged into the R780E zone by successful winter drilling. Mineralization remains open along strike both to the western and eastern extents. Mineralization is both located within and associated with a metasedimentary lithologic corridor, bounded to the south by the PL-3B basement Electro-Magnetic (EM) Conductor.

Fission has received and released assay results on 22 holes from its winter 2014 drill program at PLS. Updated maps and files can be found on the Company's website at <http://www.fissionuranium.com/project/pls/overview/>.

Patterson Lake South Property

The 31,039 hectare PLS project is 100% owned and operated by [Fission Uranium Corp.](#) PLS is accessible by road with primary access from all-weather Highway 955, which runs north to the former Cluff Lake mine and passes through the nearby UEX-Areva Shea Creek discoveries located 50km to the north, currently

under active exploration and development.

The technical information in this news release has been prepared in accordance with the Canadian regulatory requirements set out in National Instrument 43-101 and reviewed on behalf of the company by Ross McElroy, P.Geol. President and COO for [Fission Uranium Corp.](#), a qualified person.

About Fission Uranium Corp.

[Fission Uranium Corp.](#) is a Canadian based resource company specializing in the strategic exploration and development of the Patterson Lake South uranium property and is headquartered in Kelowna, British Columbia. Common Shares are listed on the TSX Venture Exchange under the symbol "FCU" and trade on the OTCQX marketplace in the U.S. under the symbol "FCUUF."

ON BEHALF OF THE BOARD

Ross McElroy, President and COO

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