Fission Widens High-Grade R780E Zone; Hits Eight New Holes With >10,000 cps Radioactivity Starting at 60.8m Depth

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100% Drill Hit Success Rate Continues at PLS' R780E Zone

KELOWNA, BRITISH COLUMBIA--(Marketwired - Sep 8, 2014) - Fission Uranium Corp. ("**Fission**" or "**the Company**") (TSX VENTURE:FCU)(OTCQX:FCUUF)(FRANKFURT:2FU) is pleased to announce results from eleven new angled drill holes of the summer drill program at its PLS property in Canada's Athabasca Basin. Of particular note is PLS14-286 (line 495E), with a total of **97.2m composite mineralization at shallow depth, including 9.31m total composite >10,000 cps radioactivity**. All eleven holes returned wide mineralization, with eight returning intervals of >10,000 cps radioactivity. Fission has hit mineralization on every one of the 54 R780E zone summer program holes drilled to date.

Zone R780E, which has a strike length of 930m, continues to widen: with the results of PLS14-282, the lateral horizontal width of the R780E mineralized corridor has expanded to greater than 164m on line 885E. Of additional note, holes PLS14-274 (line 1125E) and PLS14-285 (line 1095E) have further solidified the connection between the recently merged R780E and R1155E zones, with stronger mineralization than previously encountered.

Drilling Highlights Include:

Hole PLS14-286 (line 495E)

- **97.2m** total composite mineralization over a 112.2m section (between 60.8m - 173.0m) including:
  - **9.31m** total composite mineralization of (>10,000 cps) radioactivity

Hole PLS14-276 (line 570E)

- **75.0m** total composite mineralization over a 210.0m section (between 69.5m - 279.5m) including:
  - **5.36m** total composite mineralization of (>10,000 cps) radioactivity

Hole PLS14-283 (line 840E)

- **82.0m** total composite mineralization over a 240.0m section (between 115.0m - 355.0m) including:
  - **2.92m** total composite mineralization of (>10,000 cps) radioactivity

Ross McElroy, President, COO, and Chief Geologist for Fission, commented, *"We are seeing yet more lateral widening on multiple section lines of the high-grade R780E zone with this new round of excellent drill results. We remain impressed by the progress of the summer program which continues to enjoy a 100% mineralization hit rate with holes drilled so far."*

As per news release July 28, 2014 Fission has replaced the GR-110 scintillometer, which measured a

maximum of 9,999 cps (referred to as off-scale in all previous PLS drill programs) with the RS-121 scintillometer, which measures up to 65,535 cps for higher resolution readings of strongly anomalous radioactivity.

		Collar			* Hand-held Scintillometer Results On Mineralized Drillcore (>300 cps / >0.5M minimum)				Sandstone	Basement	
Hole ID	Zone	Grid Line	Az	Dip	From (m)	To (m)	Width (m)	CPS Peak Range	From - To (m)	Unconformity Depth (m)	Dr
PLS14-273	R780E	885E	328	-69.0	133.5	148.5	15.0	<300 - 8400	NA	61.0	
					152.0	155.0	3.0	<300 - 1700			
					166.5	168.0	1.5	<300 - 360			
					176.0	199.0	23.0	<300 - 7000			
					208.5	209.5	1.0	360 - 860			
					224.5	231.5	7.0	<300 - 540			
					235.5	243.0	7.5	<300 - 4400			
					246.0	250.5	4.5	<300 - 1200			
					270.0	270.5	0.5	350			
					273.5	277.5	4.0	<300 - 1800			
					315.0	317.5	2.5	340 - 770			
					332.0	332.5	0.5	760			
					354.0	354.5	0.5	420			
					407.0	407.5	0.5	390			
PLS14-274	R780E	1125E	335	-65	198.0	199.5	1.5	330 - 600	NA	69.9	
					202.0	224.5	22.5	<300 - 19100			
					232.0	233.0	1.0	550 - 740			
					238.0	240.5	2.5	<300 - 420			
					278.5	280.0	1.5	320 - 700			
PLS14-275	R780E	1005E	335	-69	130.5	133.0	2.5	<300 - 480	na	65.1	
					137.0	167.0	30.0	<300 - 9400			
					172.5	181.5	9.0	360 - 19600			
					205.0	216.0	11.0	<300 - 1800			
					222.5	225.0	2.5	<300 - 2400			
					246.0	250.0	4.0	350 - 11800			
					263.0	264.0	1.0	350 - 390			
					304.0	305.0	1.0	340 - 780			
					309.5	320.5	11.0	<300 - 4600			
					372.0	373.0	1.0	390 - 450			
PLS14-276	R780E	570E	338	-73	69.5	82.0	12.5	410 - 53900	NA	59.8	
					94.5	95.0	0.5	320			
					98.5	100.5	2.0	330 - 27300			
					103.5	112.0	8.5	<300 - 7000			
					115.0	118.0	3.0	420 - 8100			
					130.0	132.0	2.0	310 - 5200			
					134.5	138.0	3.5	<300 - 5100			
					160.0	174.5	14.5	<300 - 1700			
					188.0	202.0	14.0	<300 - 2900			
					210.0	222.5	12.5	<300 - 1100			
					239.0	240.0	1.0	5700 - 9000			
					252.0	252.5	0.5	390			
					279.0	279.5	0.5	520			
PLS14-278	R780E	825E	331	-67	68.5	79.0	10.5	<300 - 20900	NA	59.5	
					89.0	91.0	2.0	<300 - 580			
					102.0	108.5	6.5	<300 - 490			
					111.0	111.5	0.5	440			
					114.5	130.5	16.0	<300 - 8800			
					230.5	234.5	4.0	370 - 2000			
					288.0	288.5	0.5	390			
PLS14-279	R780E	705E	339	-70	130.5	161.0	30.5	<300 - 48000	NA	59.3	
					163.5	170.0	6.5	<300 - 32000			
					172.5	181.5	9.0	<300 - 14800			
					188.5	190.5	2.0	1000 - 6100			
PLS14-282	R780E	885E	344	-71	71.0	76.0	5.0	<300 - 1400	NA	62.3	
					81.0	82.0	1.0	390			
					89.5	94.5	5.0	<300 - 820			

					149.5	151.5	2.0	320 - 490			
					157.5	162.5	5.0	<300 - 5200			
					168.0	168.5	0.5	370			
					172.5	174.5	2.0	400 - 1600			
					181.0	192.5	11.5	<300 - 1100			
					214.0	219.0	5.0	310 - 6200			
					223.0	226.0	3.0	450 - 1900			
					238.0	242.5	4.5	<300 - 820			
					247.0	266.0	19.0	<300 - 19300			
					282.0	283.5	1.5	<300 - 470			
					300.0	301.5	1.5	<300 - 470			
					313.0	313.5	0.5	560			
					334.5	336.0	1.5	380 - 610			
					371.0	374.0	3.0	<300 - 430			
					397.0	398.5	1.5	<300 - 490			
					469.5	470.0	0.5	330			
					492.5	493.0	0.5	370			
					496.5	497.0	0.5	340			
					518.0	518.5	0.5	320			
PLS14-283	R780E	840E	334	-70	115.0	115.5	0.5	360	NA	63.0	
					129.0	137.0	8.0	<300 - 1100			
					140.5	143.5	3.0	<300 - 460			
					146.5	189.5	43.0	<300 - 15600			
					192.5	198.5	6.0	<300 - 15400			
					212.5	213.0	0.5	460			
					225.0	226.5	1.5	410 - 33000			
					229.5	234.0	4.5	<300 - 850			
					257.0	269.0	12.0	<300 - 61700			
					297.5	298.5	1.0	330 - 430			
					310.5	312.0	1.5	610 - 1200			
					354.5	355.0	0.5	350			
PLS14-285	R780E	1095E	314	-70	257.0	264.0	7.0	320 - 4700	NA	66.2	
					268.0	279.5	11.5	<300 - 10600			
					283.5	284.5	1.0	1600 - 17400			
					287.5	314.0	26.5	<300 - 16700			
					327.0	328.5	1.5	<300 - 810			
					331.5	334.0	2.5	<300 - 690			
					346.5	347.5	1.0	760 - 810			
					372.0	376.0	4.0	<300 - 720			
					387.5	388.0	0.5	340			
					425.5	426.0	0.5	2300			
PLS14-286	R780E	495E	336	-71	60.8	117.5	56.7	<300 - 54700	60.8 - 61.1	61.1	
					120.0	122.0	2.0	<300 - 510			
					127.0	165.0	38.0	<300 - 8100			
					172.5	173.0	0.5	390			
PLS14-287	R780E	855E	332	-71	149.0	174.5	25.5	<300 - 3800	NA	60.3	
					179.5	182.5	3.0	<300 - 410			
					198.5	201.5	3.0	<300 - 840			
					221.5	227.0	5.5	<300 - 3800			
					240.0	241.0	1.0	570 - 1200			
					244.0	248.0	4.0	<300 - 2800			
					284.0	284.5	0.5	1000			
					287.0	289.0	2.0	440 - 1900			
					361.0	361.5	0.5	360			
					377.0	377.5	0.5	490			

Natural gamma radiation in drill core that is reported in this news release was measured in counts per second (cps) using a hand held RS-121 Scintillometer manufactured by Radiation Solutions. The reader is cautioned that scintillometer readings are not directly or uniformly related to uranium grades of the rock sample measured, and should be used only as a preliminary indication of the presence of radioactive materials. The degree of radioactivity within the mineralized intervals is highly variable and associated with visible pitchblende mineralization. All intersections are down-hole, core interval measurements and true thickness is yet to be determined.

Samples from the drill core will be split in half sections on site. Where possible, samples will be standardized at 0.5m down-hole intervals. One-half of the split sample will be 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 will remain on site for reference. Analysis will include a 63 element ICP-OES, uranium by fluorimetry and boron.

All depth measurements reported, including radioactivity and mineralization interval widths are down-hole, core interval measurements and true thickness are yet to be determined.

PLS Mineralized Trend Summary

Uranium mineralization at PLS has been traced by core drilling over 2.24km of east-west strike length in four separate mineralized "zones" from line 615W (PLS13-124) to line 1620E (PLS14-196). From west to east, these zones are; R600W, R00E, R780E and R1620E. The former R390E, R585, R945E and R1155E zones have been merged into the R780E zone by successful 2014 winter and summer drilling. The R780E zone now stands at 930m of continuous strike length within a mineralized lateral corridor up to 150m wide (line 870E). 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.

Updated maps and files can be found on the Company's website at http://fissionuranium.com/project/pls/.

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.

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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

Cautionary Statement:

Certain information contained in this press release constitutes "forward-looking information", within the meaning of Canadian legislation. Generally, these forward-looking statements can be identified by the use of forward-looking terminology such as "plans", "expects" or "does not expect", "is expected", "budget", "scheduled", "estimates", "forecasts", "intends", "anticipates" or "does not anticipate", or "believes", or variations of such words and phrases or state that certain actions, events or results "may", "could", "would", "might" or "will be taken", "occur", "be achieved" or "has the potential to". Forward looking statements contained in this press release may include statements regarding the future operating or financial performance of Fission and Fission Uranium which involve known and unknown risks and uncertainties which may not prove to be accurate. Actual results and outcomes may differ materially from what is expressed or forecasted in these forward-looking statements. Such statements are qualified in their entirety by the inherent risks and uncertainties surrounding future expectations. Among those factors which could cause actual results to differ materially are the following: market conditions and other risk factors listed from time to time in our reports filed with Canadian securities regulators on SEDAR at www.sedar.com. The forward-looking statements included in this press release are made as of the date of this press release and the Company and Fission Uranium disclaim any intention or obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as expressly required by applicable securities legislation.

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