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PRESS RELEASE

DENISON REPORTS ASSAYS INCREASE GRADES BY 45% AND DELIVER MOST MEANINGFUL GRYPHON D-LENS RESULT TO DATE AT WHEELER RIVER

Toronto, ON – May 26, 2017 Denison Mines Corp. ("Denison" or the "Company") (DML: TSX, DNN: NYSE MKT) is pleased to report a significant increase in uranium grades from previously released preliminary radiometric probe results, following the receipt of uranium assays from the Company's winter 2017 drilling program on the 60% owned Wheeler River project. The winter 2017 exploration program involved a combination of infill drilling at the Gryphon deposit and resource expansion exploration drilling to the northwest of the Gryphon deposit. The Wheeler River project is host to the high-grade Gryphon and Phoenix uranium deposits, and is the largest undeveloped high-grade uranium project in the infrastructure rich eastern portion of the Athabasca Basin region in northern Saskatchewan.

The Company currently reports preliminary radiometric equivalent grades (" eU_3O_8 "), derived from a calibrated downhole total gamma probe, during its exploration programs and subsequently reports definitive assay grades following sampling and geochemical analysis of the mineralized drill core.

Highlights

- As has been the case in past years, assays returned higher grades of U₃O₈ than the preliminary eU₃O₈ reported during the drilling program. For the winter 2017 results, assay grades greater than 0.5% U₃O₈ were on average 45% higher than their corresponding radiometric equivalent grades;
- Drill hole WR-633D3 returned assay results of 3.3% U₃O₈ over 13.5 metres, 6.2% U₃O₈ over 2.5 metres and 1.3% U₃O₈ over 3.0 metres within the D series lenses. This result represents the best hole drilled to date, in terms of combined grades and thicknesses of mineralization, from the mineralized zone identified to the northwest of the current resources estimated for the Gryphon deposit.

In November 2015, the Company estimated the Gryphon deposit to contain inferred resources of 43.0 million pounds U_3O_8 (above a cut-off grade of 0.2% U_3O_8) based on 834,000 tonnes of mineralization at an average grade of 2.3% U_3O_8 , occurring as a series of stacked lenses on various stratigraphic, fault-controlled planes within the basement rocks – termed the A, B, and C series lenses. Since then, a significant zone of new mineralization has been discovered and partially delineated to the northwest, termed the D series of lenses, in combination with the discovery of additional mineralization on the A and B planes. Taken together, results from exploration drilling since the beginning of 2016, has defined a mineralized zone that comprises multiple lenses spanning over 300 metres in strike length and remains open.

Dale Verran, Denison's Vice President of Exploration, commented, "This set of Gryphon assay results have exceeded expectations – particularly for drill hole WR-633D3, which now ranks as the best hole to date in the D series of lenses. These results re-emphasize the potential of the D series lenses to add meaningful resources to the Gryphon deposit, ahead of a planned update to the resource estimate for the project. This summer, in addition to the ongoing infill drilling at Gryphon, we are planning to continue to explore the D lenses with the objective of defining high-grade zones and maximizing the indicated resources that will be included in the upcoming PFS"

The Company is also pleased to report the assay results from its infill drilling program at the Gryphon deposit, including the results of a further 17 drill holes, totaling 8,402 metres. The results confirm the continuity and high-grades of Gryphon's A, B and C series inferred resources and indicate potential for resource growth with higher than expected assay grades compared to the inferred grade model in certain

portions of the deposit. A further 18 drill holes are planned to be completed during the summer 2017 program to complete the infill program at Gryphon.

Technical Highlights From Assay Results

Winter 2017 assay results for exploration drilling are provided in **Table 1**. Nine holes totalling 6,330 metres were completed outside of the current inferred resources estimated for the Gryphon deposit, including four holes targeting the Gryphon D series lenses, and five holes down-dip of the A and B series lenses. The highlights from these results illustrate the potential for meaningful resource expansion at Gryphon:

- 3.3% U₃O₈ over 13.5 m (including 11.8% U₃O₈ over 3.5 m) D series mineralization in WR-633D3
- 6.2% U₃O₈ over 2.5 m D series mineralization in WR-633D3
- **1.3%** U_3O_8 over 3.0 m (including 3.8% U_3O_8 over 1.0 m) D series mineralization in WR-633D3
- **2.9%** U_3O_8 over 3.0 m (including 8.5% U_3O_8 over 1.0 m) B series mineralization in WR-689
- 8.6% U₃O₈ over 1.0 m D series mineralization in WR-689
- 15.1% U₃O₈ over 1.0 m D series mineralization in WR-689

In addition to exploration drilling to expand mineralization outside of the current Gryphon resource, the 2017 winter drilling program continued with infill and delineation drilling with the objective of increasing the level of confidence of the current inferred resources to an indicated level. Winter 2017 assay results from infill and delineation drilling are provided in **Table 2**, and represent an overall increase in grade and thicknesses of mineralization in comparison to the previously reported radiometric equivalent grade results (see Denison's press releases dated <u>March 29, 2017</u> and <u>April 20, 2017</u>). Highlights from the infill results include the following results:

- 7.3% U₃O₈ over 6.0 m (including 10.9% U₃O₈ over 4.0 m) A series mineralization in WR-567D2
- 1.9% U₃O₈ over 6.6 m (including 3.4% U₃O₈ over 3.0 m) B series mineralization in WR-567D2
- 5.1% U₃O₈ over 7.0 m (including 7.6% U₃O₈ over 4.5 m) A series mineralization in WR-567D1
- 5.5% U₃O₈ over 3.5 m B series mineralization in WR-567D1
- 4.0% U₃O₈ over 9.0 m A series mineralization in WR-687D2
- 4.3% U_3O_8 over 6.0 m (including 8.2% U_3O_8 over 3.0 m) A series mineralization in WR-582D2
- 3.1% U_3O_8 over 5.5 m (including 8.0% U_3O_8 over 2.0 m) A series mineralization in WR-606D2
- 2.8% U₃O₈ over 5.5 m (including 14.2% U₃O₈ over 1.0 m) A series mineralization in WR-688D3
- 1.6% U₃O₈ over 8.0 m (including 11.6% U₃O₈ over 1.0 m) A series mineralization in WR-688D2

Illustrative Figures & Further Details

A plan map of the Gryphon A, B, C and D series lenses is provided in Figure 1. The inset on Figure 1 shows a schematic cross section of the A, B, C and D series lenses and their respective inclined longitudinal section windows (as shaded rectangles). Figures 2 to 5 provide inclined longitudinal sections of the Gryphon A, B, C and D series lenses respectively. The modelled mineralized lenses shown in Figures 1 to 5 are defined using a $0.05\% U_3O_8$ or eU_3O_8 grade shell and minimum thickness of two metres. There is no certainty that the modelled mineralized lenses shown will constitute future mineral resources and they may be subject to modifications as further drilling data becomes available.

Further details regarding the Gryphon deposit and the current mineral resource estimates are provided in the NI 43-101 Technical Report for the Wheeler River project titled "Preliminary Economic Assessment for the Wheeler River Uranium Project, Saskatchewan, Canada" dated April 8, 2016 with an effective date of March 31, 2016. A copy of this report is available on Denison's website and under its profile on SEDAR at <u>www.sedar.com</u> and on EDGAR at <u>www.sec.gov/edgar.shtml</u>.

Sampling and Assay Procedures

Drill core with anomalous total gamma radioactivity (>500 counts per second) was sampled over 0.5 metre intervals. Sampling is undertaken on site by splitting the core in half, with one half submitted for analysis and the other half retained in the core box for future reference. Uranium assays are performed

by the Saskatchewan Research Council ("SRC") Geoanalytical Laboratories using an ISO/IEC 17025:2005 accredited method for the determination of U_3O_8 weight %. Sample preparation involves crushing and pulverizing core samples to 90% passing -106 microns. The resultant pulp is digested using aqua-regia and the solution analyzed for U_3O_8 weight % using ICP-OES. Core recovery at Gryphon is typically 100% and therefore radiometric equivalent U_3O_8 grades ("eU₃O₈") are not required as a substitute for chemical U_3O_8 assays. In addition to internal checks by SRC Geoanalytical Laboratories, the Company has rigorous quality assurance and quality control ("QAQC") procedures including the insertion of standard reference materials, blanks and field duplicates. The assay data is subject to verification procedures by qualified persons employed by Denison prior to disclosure. For further details on the assay, QAQC and data verification procedures please see Denison's Annual Information Form dated March 23, 2017 filed under the Company's profile on SEDAR (www.sedar.com).

Detailed Assay Results

The following tables provide the detailed assay results from the drill holes completed during the winter 2017 exploration program at Wheeler River. The assay results are shown next to the previously reported radiometric equivalent results, and have been assigned a lens designation based on the stratigraphic position of the mineralized interval.

		Dowr	Previou hole Tota	sly reported al Gamma F	d Probe ^{4,8}						
Section	Hole Number	From (m)	To (m)	Length ⁹ (m)	eU ₃ O ₈ (%) ²	From (m)	To (m)	Length ⁹ (m)	U ₃ O ₈ (wt%) ³	Lens	
	WR-689D1	560.5	561.5	1.0	0.22	560.8	562.8	2.0	0.07	В	
	and	566.3	567.3	1.0	0.11	Belov	В				
	and	570.4	571.4	1.0	0.18	571.2	572.2	1.0	0.23	В	
5175GP	and	668.4	669.4	1.0	0.13	668.8	669.8	1.0	0.09	D	
5175GF	and	675.7	676.7	1.0	0.13	673.7	674.7	1.0	0.12	D	
	and ¹	Below	v cut-off g	rade of 0.1%	eU₃O8	676.2	677.2	1.0	0.15	D	
	and	679.7	680.7	1.0	1.6	680.2	681.2	1.0	1.5	D	
	and	692.3	693.7	1.4	0.23	692.9	694.4	1.5	0.16	D	
	WR-689	557.2	558.6	1.4	0.54	Navigational drilling - no core recovery					
	and	561.0	562.0	1.0	0.13	Navigational drilling - no core recovery					
	and	564.9	566.8	1.9	2.74	564.0	567.0	3.0	2.9	в	
	including ^{6,7}	565.6	566.6	1.0	5.08	566.0	567.0	1.0	8.5	в	
	and	573.2	574.2	1.0	0.60	573.0	574.0	1.0	0.95	В	
	and	584.1	585.1	1.0	0.32	584.0	585.0	1.0	0.19	В	
	and ¹	Below	/ cut-off g	rade of 0.1%	5 eU₃O8	666.6	667.6	1.0	0.05	D	
5200GP	and	679.6	680.6	1.0	0.50	680.4	681.4	1.0	0.20	D	
5200GP	and	684.6	685.6	1.0	0.15	685.2	686.2	1.0	0.23	D	
	and	711.1	712.8	1.7	2.86	712.0	713.0	1.0	8.6	D	
	and	718.4	719.6	1.2	7.5	719.7	720.7	1.0	15.1	D	
	WR-633D3	674.6	675.6	1.0	0.12	675.3	676.3	1.0	0.09	В	
	and	742.8	743.8	1.0	0.11	743.5	744.5	1.0	0.09	D	
	and	753.3	756.4	3.1	0.75	753.9	756.9	3.0	1.3	D	
	including ^{6,7}	755.3	756.3	1.0	2.0	755.9	756.9	1.0	3.8	D	
	and	758.6	771.8	13.2	2.5	759.2	772.7	13.5	3.3	D	

Table 1: Winter 2017 assay results for exploration drilling outside of the Gryphon resource

	including ^{6,7}	764.3	768.1	3.8	7.8	765.2	768.7	3.5	11.8	D
	including ^{1,6,7}	Below	v cut-off gra	ade of 1.0%	₀ eU₃O8	771.7	772.7	1.0	1.0	D
	and	774.6	777.4	2.8	3.7	775.4	777.9	2.5	6.2	D
5225GP	WR-690	585.9	587.0	1.1	0.18	586.9	587.9	1.0	0.21	В
	and	593.0	594.0	1.0	0.74	594.0	595.0	1.0	0.62	В
	and	654.5	655.5	1.0	0.70	655.6	656.6	1.0	0.66	С
	and	722.3	723.3	1.0	0.23	723.4	724.4	1.0	0.16	D
	and	726.1	727.1	1.0	0.18	727.4	728.4	1.0	0.16	D

Notes:

- 1. Result not reported previously
- 2. eU_3O_8 is the radiometric equivalent U_3O_8 derived from a calibrated total gamma downhole probe
- 3. U₃O₈ is the chemical assay of mineralized split core samples
- 4. Downhole probe result composited above a cut-off grade of 0.1% eU₃O₈ unless otherwise indicated
- 5. Assay result composited above a cut-off grade of 0.05% U₃O₈ unless otherwise indicated
- 6. Downhole probe result composited above a cut-off grade of 1.0% eU₃O₈
- 7. Assay result composited above a cut-off grade of 1.0% U₃O₈
- 8. Composites compiled using 1.0 metre minimum mineralization thickness and 2.0 metres maximum waste
- 9. As the drill holes are oriented steeply toward the northwest and the basement mineralization is interpreted to dip moderately to the southeast, the true thickness of the mineralization is expected to be approximately 75% of the intersection lengths

Table 2: Winter 2017 assay results for Gryphon resource infill and delineation holes

		Down	hole Tota	al Gamma P	robe ^{4,8}					
Section	Hole Number	From (m)	To (m)	Length ⁹ (m)	eU₃O8 (%) ²	From (m)	To (m)	ssay ^{5,8} Length ⁹ (m)	U ₃ O ₈ (wt%) ³	Lens
	WR-584BD1	624.8	627.8	3.0	2.0	626.3	628.3	2.0	4.0	Α
4775GP	including ^{6,7}	626.0	627.6	1.6	3.7	626.3	627.8	1.5	5.0	Α
4773GF	and ¹	Below	/ cut-off g	rade of 0.1%	eU_3O_8	631.8	632.8	1.0	0.05	В
	and	637.6	638.6	1.0	0.11	638.2	639.2	1.0	0.08	В
	WR-683	No	significa	nt mineraliza	tion	No	o significa	nt mineraliza	ation	
	WR-683D1	635.8	638.9	3.1	1.8	635.5	639.0	3.5	1.3	Α
	including ^{6,7}	636.2	638.2	2.0	3.5	637.0	639.0	2.0	2.1	Α
	and	645.2	646.2	1.0	0.31	645.5	646.5	1.0	0.73	В
	and	657.5	658.5	1.0	0.46	658.0	659.0	1.0	0.12	В
	WR-687D1 ¹	Below	/ cut-off g	rade of 0.1%	eU ₃ O ₈	664.5	665.5	1.0	0.09	А
4825GP	and	672.0	673.0	1.0	0.40	667.0	674.0	7.0	0.06	А
4020GP	and	673.4	674.4	1.0	0.10	N	А			
	and	676.6	678.0	1.4	1.6	677.0	678.5	1.5	2.9	в
	including ^{6,7}	676.8	677.8	1.0	2.2	677.5	678.5	1.0	4.1	в
	and	682.7	683.7	1.0	0.55	683.0	684.0	1.0	0.64	В
	WR-575D1	626.2	625.9	1.5	0.36	624.0	627.0	3.0	0.28	А
	and ¹	Below	/ cut-off g	rade of 0.1%	eU ₃ O ₈	648.0	650.5	2.5	0.15	В
	and ¹	Below	/ cut-off g	rade of 0.1%	eU ₃ O ₈	652.5	653.5	1.0	0.05	В
	WR-687 ¹	Below	/ cut-off g	rade of 0.1%	eU ₃ O ₈	666.0	667.0	1.0	0.07	А
4900GP	and	681.4	682.4	1.0	0.14	Belov	А			
	and	685.0	686.5	1.5	0.88	685.2	686.7	1.5	0.47	А

	and	690.8	691.8	1.0	0.12	Belov	v cut-off gra	ade of 0.05	5% U3O8	В
	WR-687D2 ¹	Below cut-off grade of 0.1% eU_3O_8				537.0	538.0	1.0	0.05	А
	and	648.9	649.9	1.0	1.8	649.8	650.8	1.0	2.8	Α
	and	652.8	661.9	9.1	2.5	653.4	662.4	9.0	4.0	Α
	and ¹	Below	v cut-off gra	ade of 0.1%	% eU₃O8	670.0	672.0	2.0	0.09	В
	and	676.3	677.3	1.0	0.10	Belov	v cut-off gra	ade of 0.05	5% U ₃ O ₈	В
	and	686.2	687.4	1.2	0.15	687.2	688.2	1.0	0.24	В
	WR-567D1	674.3	675.9	1.6	0.33	675.0	676.5	1.5	0.51	А
	and	689.8	690.8	1.0	0.66	691.0	693.0	2.0	0.49	А
4050CD	and	694.9	696.9	2.0	1.3	695.5	696.5	1.0	3.1	Α
4950GP	and	700.0	707.1	7.1	3.9	701.0	708.0	7.0	5.1	Α
	including ^{6,7}	701.1	705.5	4.4	6.1	702.0	706.5	4.5	7.6	Α
	and	723.1	727.1	4.0	3.8	724.0	727.5	3.5	5.5	в
	WR-567D2 ¹	Below	v cut-off gra	ade of 0.1%	% eU₃O ₈	585.8	586.8	1.0	0.06	А
	and ¹	Below	v cut-off gra	ade of 0.1%	% eU₃O ₈	663.1	664.1	1.0	0.05	А
	and	664.5	665.6	1.1	0.42	664.6	665.6	1.0	0.09	А
	and	670.1	671.1	1.0	0.89	670.1	671.1	1.0	1.2	Α
	and	691.2	692.2	1.0	1.2	691.7	692.7	1.0	0.66	А
4975GP	and	694.3	695.7	1.4	0.71	695.0	696.0	1.0	0.61	А
	and	698.4	704.6	6.2	5.9	698.8	704.8	6.0	7.3	Α
	including ^{6,7}	700.2	704.3	4.1	8.7	700.8	704.8	4.0	10.9	Α
	and ¹	Below	v cut-off gra	ade of 0.1%	% eU₃O ₈	711.5	712.5	1.0	0.07	В
	and	713.5	714.9	1.4	0.22	714.0	716.0	2.0	0.15	В
	and	732.8	736.4	3.6	2.1	733.4	740.0	6.6	1.9	в
	including ^{6,7}	733.0	735.8	2.8	2.6	733.4	736.4	3.0	3.4	в
	including ^{1,6,7}	Below	v cut-off gra	ade of 1.0%	% eU₃O ₈	739.0	740.0	1.0	2.1	в
	and	739.0	740.0	1.0	0.40	M	lerged with	interval at	oove	В
	and	744.8	747.4	2.6	0.28	745.5	748.0	2.5	0.29	В
	WR-606D2 ¹	Below	v cut-off gra	ade of 0.1%	% eU₃O ₈	747.5	748.5	1.0	0.09	Α
	and	764.3	765.3	1.0	0.11	765.0	766.0	1.0	0.05	А
	and ¹	Below	v cut-off gra	ade of 0.1%	% eU₃O ₈	770.5	771.5	1.0	0.06	А
	and ¹	Below	v cut-off gra	ade of 0.1%	% eU₃O8	777.7	778.7	1.0	0.09	А
	and	785.4	786.4	1.0	0.15	785.9	786.9	1.0	0.13	А
	and	792.4	793.4	1.0	0.11	N	lerged with	interval be	elow	А
	and	794.2	798.8	4.6	2.0	793.6	799.1	5.5	3.1	Α
5100GP	including ^{6,7}	795.9	797.8	1.9	4.1	796.6	798.6	2.0	8.0	Α
	and	803.5	808.1	4.6	0.45	805.1	808.6	3.5	0.34	в
	including ^{6,7}	804.6	805.6	1.0	1.5	805.1	806.1	1.0	1.0	в
	WR-688D3	758.1	759.1	1.0	0.24	758.5	759.5	1.0	0.38	А
	and	762.4	767.7	5.3	2.7	763.0	768.5	5.5	2.8	Α
	including ^{6,7}	764.4	765.7	1.3	9.4	765.0	766.0	1.0	14.2	Α
	and ¹	Below	v cut-off gra		% eU₃O8	770.5	772.5	2.0	0.07	В
	I	I	0		5	1				I

	and	775.2 776.2 1.0 0.12 Merge					lerged with	rged with interval below			
	and	779.1	780.1	1.0	0.11	Merged with interval below				В	
	and	780.4	781.4	1.0	0.10	N	Merged with interval below				
	and	782.2	785.1	2.9	0.71	775.5	785.5	10.0	0.26	в	
	including ^{6,7}	783.5	784.5	1.0	1.6	784.0	785.0	1.0	1.6	в	
	and	793.1	794.2	1.1	5.4	793.7	794.7	1.0	9.2	С	
	WR-688 ¹	Below cut-off grade of 0.1% eU ₃ O ₈				520.6	521.6	1.0	0.09	Α	
	and	774.1	778.9	4.8	0.51	774.5	783.5	9.0	0.30	Α	
5125GP	WR-688D2	756.5	757.5	1.0	0.33	757.5	758.5	1.0	0.95	А	
	and	761.2	762.7	1.5	3.0	762.3	770.3	8.0	1.6	A/B	
	including ^{6,7}	761.3	762.3	1.0	4.3	762.3	763.3	1.0	11.6	Α	
	and	767.5	769.2	1.7	0.47	N	lerged with	interval at	oove	В	
	WR-582D2	741.6	742.6	1.0	0.72	741.5	743.0	1.5	0.34	А	
	and	746.2	752.0	5.8	4.1	746.5	752.5	6.0	4.3	Α	
	including ^{1,6,7}	Below	cut-off gra	de of 1.0 %	% eU3O8	747.5	748.5	1.0	1.0	Α	
	including ^{6,7}	748.8	751.6	2.8	8.1	749.0	752.0	3.0	8.2	Α	
	WR-684	796.1	797.1	1.0	0.11	797.6	798.6	1.0	0.14	А	
5150GP	and	813.7	827.9	14.2	0.39	815.1	829.6	14.5	0.46	Α	
5150GF	including ^{6,7}	813.7	814.7	1.0	1.2	815.1	816.1	1.0	2.1	Α	
	including ^{1,6,7}	Below	cut-off gra	ade of 1.0 9	% eU₃O8	817.1	818.1	1.0	1.2	Α	
	and	830.5	835.1	4.6	2.5	832.2	836.2	4.0	1.9	В	
	including ^{6,7}	831.0	832.2	1.2	8.3	832.7	833.7	1.0	6.8	В	
	WR-688D1	766.5	768.9	2.4	0.72	767.5	770.0	2.5	0.32	А	
	and	775.5	776.5	1.0	0.16	776.5	778.0	1.5	0.15	А	
	WR-684D1 ¹	Below	/ cut-off gra	ade of 0.1%	% eU₃O ₈	794.4	795.4	1.0	0.06	А	
	and	803.6	805.2	1.6	0.18	805.5	812.5	7.0	0.15	Α	
E47EOD	and	806.4	807.4	1.0	0.13	Merged with interval above				А	
5175GP	and	808.3	810.2	1.9	0.18	N	lerged with	n interval at	oove	А	
	and	813.6	815.5	1.9	0.18	815.5	817.5	2.0	0.19	А	
	and	831.5	832.5	1.0	0.12	833.5	834.5	1.0	0.17	В	

Notes:

1. Result not reported previously

 eU_3O_8 is the radiometric equivalent U_3O_8 derived from a calibrated total gamma downhole probe U_3O_8 is the chemical assay of mineralized split core samples 2.

3.

Downhole probe result composited above a cut-off grade of $0.1\% eU_3O_8$ unless otherwise indicated Assay result composited above a cut-off grade of $0.05\% U_3O_8$ unless otherwise indicated 4.

5.

Downhole probe result composited above a cut-off grade of $1.0\% \text{ eJ}_3\text{O}_8$ Assay result composited above a cut-off grade of $1.0\% \text{ eJ}_3\text{O}_8$ 6.

7.

8.

Composites compiled using 1.0 metre minimum mineralization thickness and 2.0 metres maximum waste As the drill holes are oriented steeply toward the northwest and the basement mineralization is interpreted to dip 9. moderately to the southeast, the true thickness of the mineralization is expected to be approximately 75% of the intersection lengths

Qualified Persons

Dale Verran, MSc, Pr.Sci.Nat., Denison's Vice President, Exploration, who is a Qualified Person in accordance with the requirements of NI 43-101 has reviewed and approved the technical information contained in this release.

About Wheeler River

Wheeler River is the largest undeveloped high-grade uranium project in the infrastructure rich eastern portion of the Athabasca Basin region, in northern Saskatchewan. The project is a joint venture between Denison (60% and operator), Cameco Corp. ("Cameco") (30%), and JCU (Canada) Exploration Company Limited ("JCU") (10%), and is host to the high-grade Gryphon and Phoenix uranium deposits discovered by Denison in 2014 and 2008, respectively. The Gryphon deposit is hosted in basement rock and is currently estimated to contain inferred resources of 43.0 million pounds U_3O_8 (above a cut-off grade of 0.2% U_3O_8) based on 834,000 tonnes of mineralization at an average grade of 2.3% U_3O_8 . The Phoenix unconformity deposit is located approximately 3 kilometres to the southeast of Gryphon and is estimated to include indicated resources of 70.2 million pounds U_3O_8 (above a cut-off grade on 166,000 tonnes of mineralization at an average grade of 19.1% U_3O_8 , and is the highest grade undeveloped known uranium deposit in the world.

On April 4th, 2016, Denison announced the results of a Preliminary Economic Assessment ("PEA") for the Wheeler River Project, which considers the potential economic merit of co-developing the high-grade Gryphon and Phoenix deposits as a single underground mining operation. The PEA returned a base case pre-tax Internal Rate of Return ("IRR") of 20.4% based on the current long term contract price of uranium (US\$44.00 per pound U_3O_8), and Denison's share of estimated initial capital expenditures ("CAPEX") of CAD\$336M (CAD\$560M on 100% ownership basis). Exploration results from the subsequent drilling programs have not been incorporated into the resource estimate or the PEA. The PEA is preliminary in nature and includes inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them to be categorized as mineral resources are not mineral reserves, and there is no certainty that the preliminary economic assessment will be realized. Mineral resources are not mineral reserves and do not have demonstrated economic viability. On July 19th, 2016 Denison announced the initiation of a Pre-Feasibility Study ("PFS") for the Wheeler River property and the complimentary commencement of an infill drilling program at the Gryphon deposit to bring the inferred resources to an indicated level of confidence.

As previously announced on January 10, 2017, Denison has entered into an agreement with its Wheeler River Joint Venture partners, Cameco and JCU, to fund 75% of Joint Venture expenses in 2017 and 2018 (ordinarily 60%) in exchange for an increase in Denison's interest in the project to up to approximately 66%. Under the terms of the agreement, Cameco will fund 50% of its ordinary 30% share in 2017 and 2018, and JCU is expected to continue to fund its 10% interest in the project.

About Denison

Denison is a uranium exploration and development company with interests focused in the Athabasca Basin region of northern Saskatchewan. Including its 60% owned Wheeler River project, which hosts the high-grade Phoenix and Gryphon uranium deposits, Denison's exploration portfolio consists of numerous projects covering over 330,000 hectares in the infrastructure rich eastern Athabasca Basin. Denison's interests in Saskatchewan also include a 22.5% ownership interest in the McClean Lake joint venture, which includes several uranium deposits and the McClean Lake uranium mill, which is currently processing ore from the Cigar Lake mine under a toll milling agreement, plus a 25.17% interest in the Midwest deposit and a 63.01% interest in the J Zone deposit on the Waterbury Lake property. Both the Midwest and J Zone deposits are located within 20 kilometres of the McClean Lake mill.

Denison is also engaged in mine decommissioning and environmental services through its Denison Environmental Services division and is the manager of Uranium Participation Corp., a publicly traded company which invests in uranium oxide and uranium hexafluoride.

For more information, please contact

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Cautionary Statement Regarding Forward-Looking Statements

Certain information contained in this press release constitutes "forward-looking information", within the meaning of the United States Private Securities Litigation Reform Act of 1995 and similar Canadian legislation concerning the business, operations and financial performance and condition of Denison.

Generally, these forward-looking statements can be identified by the use of forward-looking terminology such as "plans", "expects", "budget", "scheduled", "estimates", "forecasts", "intends", "anticipates", or "believes", or the negatives and/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". In particular, this press release contains forward-looking information pertaining to the following: the likelihood of completing and benefits to be derived from corporate transactions; use of proceeds from financing activities; expectations regarding further studies on material properties, including the PFS; expectations regarding Denison's ownership interests and continuity of agreements with its partners; expectations regarding the provision of management services to UPC; capital expenditure programs, estimated exploration and development expenditures and reclamation costs and Denison's share of same; and exploration, development and expansion plans and objectives and statements regarding anticipated budgets. Statements relating to "mineral resources" are deemed to be forward-looking information, as they involve the implied assessment, based on certain estimates and assumptions that the mineral reserves and mineral resources described can be profitably produced in the future.

Forward looking statements are based on the opinions and estimates of management as of the date such statements are made, and they are subject to known and unknown risks, uncertainties and other factors that may cause the actual results, level of activity, performance or achievements of Denison to be materially different from those expressed or implied by forward-looking statements. Denison believes that the expectations reflected in this forward-looking information are reasonable but no assurance can be given that these expectations will prove to be accurate and may differ materially from those anticipated in this forward looking information. For a discussion in respect of risks and other factors that could influence forward-looking events, please refer to the factors discussed in Denison's Annual Information Form dated March 23, 2017 under the heading "Risk Factors". These factors are not, and should not be construed as being exhaustive. Accordingly, readers should not place undue reliance on forward-looking statements.

The forward-looking information contained in this press release is expressly qualified by this cautionary statement. Any forward-looking information and the assumptions made with respect thereto speaks only as of the date of this press release. Denison does not undertake any obligation to publicly update or revise any forward-looking information after the date of this press release to conform such information to actual results or to changes in Denison's expectations except as otherwise required by applicable legislation.

Cautionary Note to United States Investors Concerning Estimates of Measured, Indicated and Inferred Mineral Resources: This press release may use the terms "measured", "indicated" and "inferred" mineral resources. United States investors are advised that while such terms are recognized and required by Canadian regulations, the United States Securities and Exchange Commission does not recognize them. "Inferred mineral resources" have a great amount of uncertainty as to their existence, and as to their economic and legal feasibility. It cannot be assumed that all or any part of an inferred mineral resource will ever be upgraded to a higher category. Under Canadian rules, estimates of inferred mineral resources may not form the basis of feasibility or other economic studies. United States investors are cautioned not to assume that all or any part of measured or indicated mineral resources will ever be converted into mineral resources. United States investors are also cautioned not to assume that all or any part of measured or indicated mineral resources will ever be converted into mineral resources. United States investors are also cautioned not to assume that all or any part of measured or indicated mineral resources will ever be converted into mineral resources. United States investors are also cautioned not to assume that all or any part of an inferred mineral resource exists, or is economically or legally mineable.

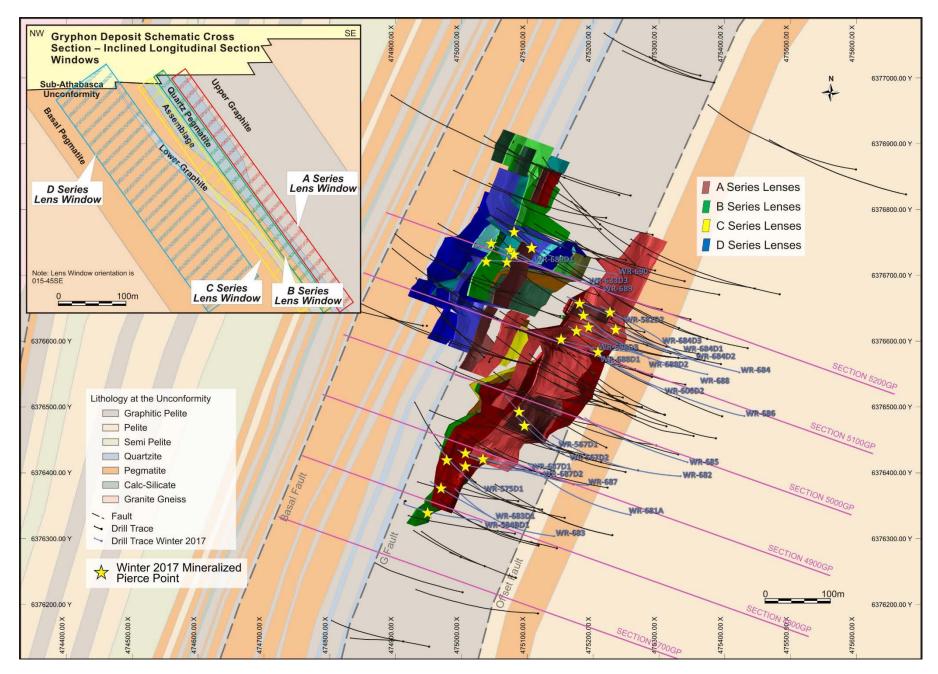


Figure 1: Plan map of the northeast plunging Gryphon mineralized lenses projected up to the simplified basement geology at the sub-Athabasca unconformity.

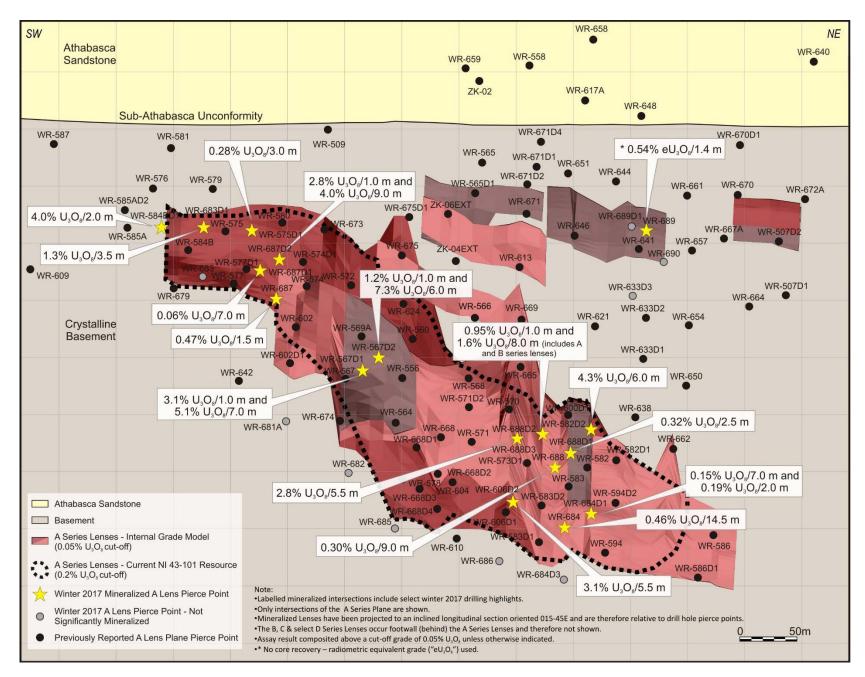


Figure 2: Inclined longitudinal section of the Gryphon A series lenses.

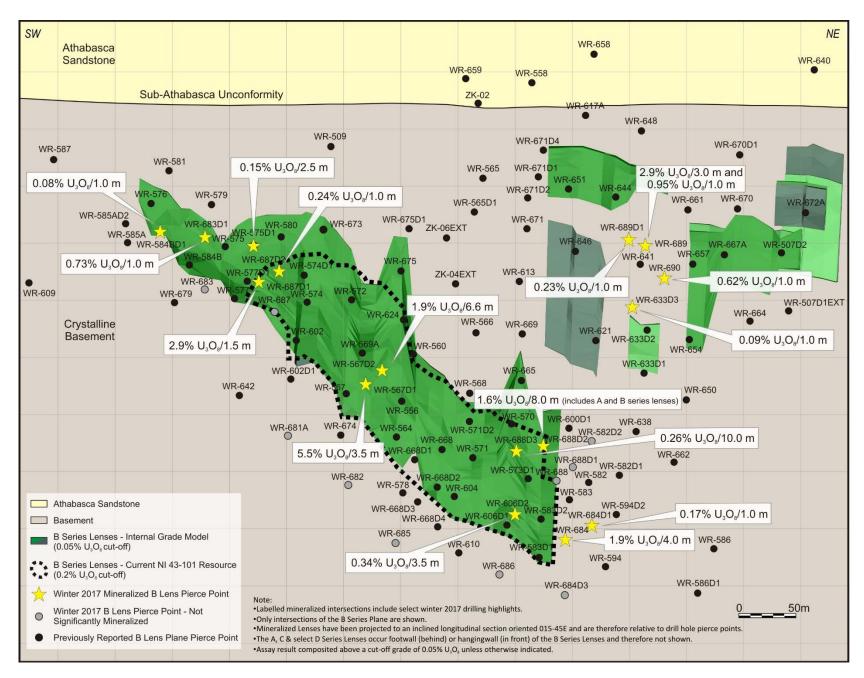


Figure 3: Inclined longitudinal section of the Gryphon B series lenses.

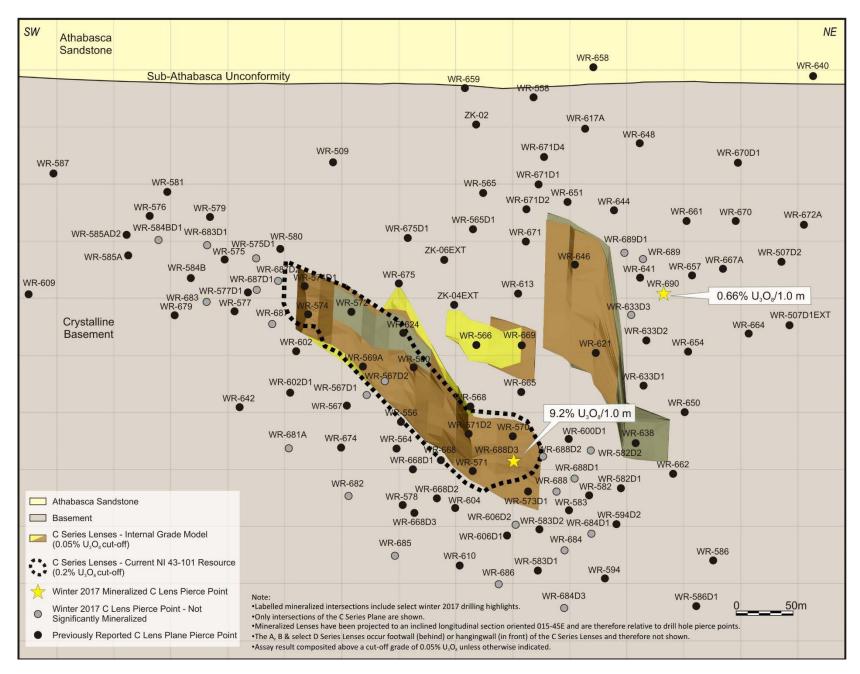


Figure 4: Inclined longitudinal section of the Gryphon C series lenses.

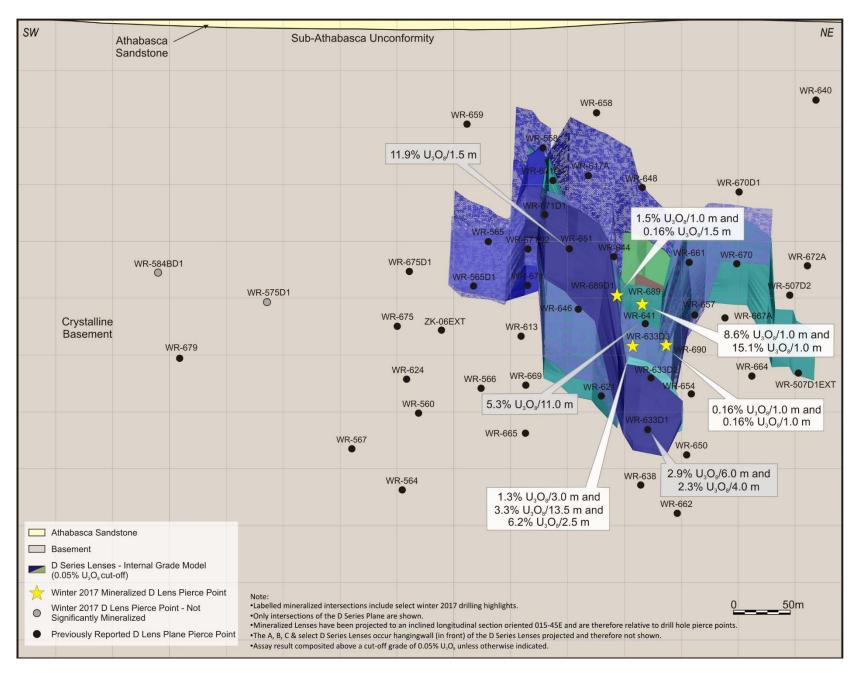


Figure 5: Inclined longitudinal section of the Gryphon D series lenses.