CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
3550 N. Central Ave, 2nd floor
Phoenix, AZ, 85012
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

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12.6.1.1

OWNER: MINERALS EXPLORATION COMPANY — BORING NO. S66C

PROJECT: ANDERSON URANIUM PROJECT — ANGLE FROM HORIZONTAL 90°

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N 1,205,725 E 91,890 — ELEV. 1828 — PAGE 1 OF 2

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BULK OR DRIVEN SAMPLES (BLOWS/FOOT)	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (3, 9, 27)	COMMENTS
SILT			LIGHT GRAY TO LIGHT BROWN, VERY FINE SAND, CHERT FRAGMENTS			25					DRILL METHOD: HQ TRIPLE TUBE ROTARY CORE
SANDSTONE			LIGHT BROWN TO BROWN, ARKOSIC FINE TO COARSE, SILTY, TUFFACEOUS, TRACE OF VOLCANIC AND METAMORPHIC GRAVELS (LESS THAN 1 1/2" DIAMETER), SLIGHTLY CALCAREOUS INTERVALS			67			21		
						38			21		
				10		85			25		
						95			50		
SILTSTONE			BROWN, ARKOSIC, SANDY, CLAYEY, CALCAREOUS			100			100		
				20		100		FRACTURE AT 60° DIP	75		
CLAYSTONE/ SANDSTONE			OLIVE GREEN SILTY CLAYSTONE, NON-CALCAREOUS INTERBEDDED WITH (ARKOSIC) BROWN TO RED SILTY SANDSTONE, NON CALCAREOUS			95		VERTICAL FRACTURE at 28'	57		
				30		100			100		
			SILTY with red mottling, very MICACEOUS at 32'.								
CLAYSTONE			INTERBEDS BECOMING THINNER WITH DEPTH								
			OCCASIONAL CALCAREOUS INTERVALS			97			97		
				40		62			32		
			GRADES SILTY WITH Yellow mottling at 45', (ARKOSIC)			100		ONE HORIZONTAL FRACTURE			
SILTSTONE			GREENISH BROWN TO RUST RED, yellow mottled CLAYEY, SANDY, NONCALCAREOUS			97			97		
				50		93		FRACTURE AT 60° DIP	75		
			DEEP RUST red, POORLY INDURATED SILTY SANDSTONE INTERVAL FROM 56.2' TO 58.2'			100		FRACTURES HORIZONTAL SLICKENSIDES ON FRACTURES IN CLAYSTONE	65		
			MOTTLED	60							
CLAYSTONE/ SANDSTONE			RED TO YELLOW TO GRAY-GREEN, SILTY CLAYSTONE INTERBEDDED WITH RUST RED ARKOSIC SANDSTONE, NONCALCAREOUS (Highly micaceous)			95			43		
						80		FRACTURE AT 45° DIP	47		
			GRADES TRACE CALCAREOUS	70							
						100			85		
SILTSTONE			RUST RED TO GRAY-GREEN, CLAYEY, NON-CALCAREOUS WITH					SLICKENSIDES			
			TRACE thin claystone interbeds			100		on 45° fracture at 74'.	90		

FR — SW — MW — HW — XW

VW — W — MS — S — VS

LOG OF BORING

DAMES & MOORE

FINAL EDIT NO 6-21-79

5141-075-16 MINERALS

OWNER: MINERALS EXPLORATION COMPANY — BORING NO. 566C

PROJECT: ANDERSON URANIUM PROJECT — ANGLE FROM HORIZONTAL —

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N 1,205,725 E 91,890 — ELEV. 1836 — PAGE 2 OF 2

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BULK OR DRIVEN SAMPLES (BLOWS/FOOT)	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (3, 9, 27)	COMMENTS
CLAYSTONE			MOTTLED YELLOW TO RED, SILTY, NON CALCAREOUS			100		SLICKENSIDES AND FRACTURES HORIZONTAL TO 45° DIP	73		
SANDSTONE			GRAYISH BROWN, ARKOSIC, FINE TO COARSE, SILTY.			98		30° FRACTURE at 84'.	93		
			TRACE TUFF and METAMORPHIC GRAVEL TRACE olive green CLAYSTONE INTERBEDS	50							
SANDSTONE/ CONGLOMERATE			REDDISH BROWN, ARKOSIC, FINE TO COARSE SAND, TUFFACEOUS SILT MATRIX WITH METAMORPHIC AND VOLCANIC GRAVEL, ROUNDED TO SUBROUNDED, TRACE OF COBBLES, POORLY INDURATED			100			97		
						98			98		
				100							
						83			61		
			BORING TERMINATED AT 104.5 ON 5/12/79								NO GROUNDWATER ENCOUNTERED

WEATHERING: FR, SW, MW, HW, XW

STRENGTH: VW, W, MS, S, VS

LOG OF BORING

DAMES & MOORE

941-015-16

OWNER: MINERALS EXPLORATION COMPANY — BORING NO. 578

PROJECT: ANDERSON URANIUM PROJECT — ANGLE FROM HORIZONTAL 90°

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N 1,205,245 E 91,027 — ELEV. 1963 — PAGE 1 OF 1

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BULK OR DRIVEN SAMPLES BLOWS/FOOT	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (3, 9, 27)	COMMENTS
LIMESTONE			WHITE, CLAYEY WITH SILTY CHERT LENSES				(140/11)			NO DATA	DRILL METHOD: 6" HOLLOW STEM AUGER - 3" OD ACKER SAMPLER - 140# HAMMER WITH 30" DROP
CLAYSTONE			OLIVE LIGHT GREEN, SILTY WITH LAYERS OF CALCAREOUS CEMENTATION	10			(50/1") (125/6") (50/4") (3½")				
			TRACE OF NON CALCAREOUS CEMENTATION	20							
			BORING TERMINATED AT 23.5' ON 3/16/79	30							NO GROUNDWATER ENCOUNTERED

FR SW MW HW XW — VW W MS S VS

LOG OF BORING

DAMES & MOORE

6-21-79 WB FORM EDIT

9141-005-T16

OWNER: MINERALS EXPLORATION COMPANY — BORING NO. 978 C

PROJECT: ANDERSON URANIUM PROJECT — ANGLE FROM HORIZONTAL 90°

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N 1,205,245 E 71,027 — ELEV. 1963 — PAGE 1 OF 2

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BULK OR DRIVEN SAMPLES (BLOWS/FOOT)	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (1 3 9 27)	COMMENTS
CLAY			LIGHT GREEN TO BRN., SILTY, CALC.								DRILL METHOD: 6 5/8" DIAMETER ROTARY AIR TO 15' - HWG DOUBLE TUBE ROTARY CORE BELOW 15'
LIMESTONE	NO DATA		WHITE, CLAYEY, CHERTY WITH TRACE OF THIN OLIVE GREEN CALCAREOUS CLAYSTONE LAYERS							NO DATA	
CLAYSTONE			OLIVE GREEN, FINE SANDY, SILTY, NON-CALCAREOUS WITH OCCASIONAL WHITE SILTY LIMESTONE INTERBED IN UPPER PORTION	10				TWO FRACTURES W/ SLICKENSIDES			
			INCREASING SILT, TRACE OF CLAYSTONE LENSES	20				FRACTURES W/ SLICKENSIDES			
SILTSTONE			LT. OLIVE GREEN, TRACE OF CLAYSTONE LENSES, SLIGHTLY CALC.					VERTICAL FRACTURE			
CLAYSTONE			OLV. GREEN, MICACEOUS, NON-CALCAREOUS					FRACTURED ZONE OF MINERALIZATION			
SILTSTONE			LIGHT OLIVE GREEN, CLAYEY, MICACEOUS, CALCAREOUS WITH TRACE OF 1" CLAY INTERBEDS			60		SLICKENSIDES	49		
LIMESTONE / CLAYSTONE			WHITE, CLAYEY CHERTY LIMESTONE INTERBEDDED W/ OLIVE GREEN, VERY CALCAREOUS CLAYSTONE								
			CHERT LAYER 30.5 TO 31.0'								
			SILTSTONE LAYER 34.5 TO 35.5'					VERTICAL FRACTURE			
SILTSTONE			WHITE TO OLIVE GREEN, CLAYEY, BENTONITIC, VERY [illegible] CALCAREOUS	40		75			48		
			GRADES WITH WHITE CALCAREOUS MOTTLING ABUNDANT CHERT, SANDY					VERTICAL FRACTURE AND FRACTURE			
			1" CHERT LAYER	50		70			51		
			SMALL CHERT NODULES					NEAR HORIZONTAL SLICKENSIDES IN CLAYSTONE			
LIMESTONE			WHITE, SILTY, CLAYEY, CHERTY W/ TRACE OLIVE GREEN CLAYSTONE LENSES								
			VERY SILICEOUS								
CLAYSTONE			LT. OLIVE GREEN, SILTY, [illegible] MICACEOUS, CALCAREOUS WITH [illegible]	60		75		HEALED FRACTURE & CLEVAGE FRACTURE WITH SLICKENSIDES HORIZONTAL BEDDING	62		
			[illegible] WITH TRACE OF CHERT								
SILTSTONE			[illegible] TO LIGHT OLIVE GREEN, SILTY CALCAREOUS			100		VERTICAL FRACTURES	70		
			GRADES WITH INCREASED CLAY INTERBEDS	70							
			NEARBY SILICEOUS WITH CHERT								
LIMESTONE / CLAYSTONE			WHITE CLAYEY LIMESTONE INTERBEDDED WITH OLIVE GREEN MICACEOUS CLAYSTONE, CALCAREOUS			50		HEALED VERTICAL FRACTURE	3		
			1" CHERT LAYER AT 77.2'					HEALED AND FRACTURE			

FR SW MW HW XW — VW W MS S VS

LOG OF BORING

DAMES & MOORE

OWNER: MINERALS EXPLORATION COMPANY — BORING NO. S-78C

PROJECT: ANDERSON URANIUM PROJECT — ANGLE FROM HORIZONTAL 90°

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N 120,245 E 91,027 — ELEV. 1910' — PAGE 2 OF 2

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BULK OR DRIVEN SAMPLES (BLOWS/FOOT)	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (3, 9, 27)	COMMENTS
CLAYSTONE			LIGHT GRAY TO OLIVE GREEN, SILTY TO VERY SILTY, CALCAREOUS WITH WHITE CALCAREOUS LENSES					45° FRACTURE WITH SLICKENSIDES			
SILTSTONE			OLIVE GREEN, SANDY, CLAYEY, CALCAREOUS			18			45		
LIMESTONE / CLAYSTONE			WHITE, CLAYEY, CHERTY LIMESTONE INTERBEDDED WITH OLIVE GREEN, CALCAREOUS CLAYSTONE	50							
CLAYSTONE			LIGHT GREEN TO WHITE, SILTY, HIGHLY CALCAREOUS, BENTONITIC								
SILTSTONE			WHITE TO LIGHT GREEN, CLAYEY, CHERTY, CALCAREOUS GRADES LIGHT REC AT 100.5'	100		100		HORIZONTAL BEDDING	88		
			BORING TERMINATED AT 101.0' ON 4/17/75								NO GROUND WATER ENCOUNTERED

FR — SW — MW — HW — XW

VW — W — MS — S — VS

LOG OF BORING

DAMES & MOORE

OWNER: MINERALS EXPLORATION COMPANY — BORING NO. 980

PROJECT: ANDERSON URANIUM PROJECT — ANGLE FROM HORIZONTAL 90°

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N 1,205,558 E 72,916 — ELEV. 1899 — PAGE 1 OF 2

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BLOWS/FOOT (BLOWS/6")	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT	COMMENTS
SAND			BROWN, SILTY, FINE TO COARSE TRACE GRAVEL, TRACE OF CALCAREOUS MATERIAL, DRY, LOOSE				(39)				DRILL METHOD: 6" HOLLOW STEM AUGER – 3" OD ACKER – MODIFIED CALIFORNIA SAMPLER 140 LB HAMMER WITH 30" FOOT FALL 1.4" O.D. STANDARD PENETRATION SAMPLER BOTH WITH A
			GRADES DENSE, TRACE CEMENTED LAYERS				(48)				
			GRADES LIGHT BROWN TO GRAY	10			(48)				
							(42)				
			GRADES VERY DENSE	20			(112)				
				30			(50/2.5") (50/4" (50/5") (12/7")				
LIMESTONE			WHITE TO LIGHT GREEN, CLAYEY	40							
TUFF			LIGHT GRAY, WELDED, BENTONITIC				(11/3")				
				50			(52/4")				
							(107/9")				
				60			(117/8")				
							(100/6")				
				70			(100/6")				
			GRADES WITH DARK GRAY LAYERS, INCREASING CLAY CONTENT				(107/8")				

NO DATA

FR SW MW HW XW — VW W MS S VS

LOG OF BORING

DAMES & MOORE

FINAL EDIT 6-20-79

9141-055-16 MINERALS

OWNER: MINERAL EXPLORATION COMPANY — BORING NO. 985

PROJECT: ANDERSON URANIUM PROJECT — ANGLE FROM HORIZONTAL 90°

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N 1,205,558 E 92,916 ELEV. 1899 — PAGE 2 OF 2

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BULK OR DRIVEN SAMPLE; BLOWS/FOOT	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (3, 9, 27)	COMMENTS
TUFF				81			☒ (106/9")				
							(145/6")				
			BORING TERMINATED AT 90.5' ON 3/14/79								NO GROUNDWATER ENCOUNTERED

FR — SW — MW — HW — XW

VW — W — MS — S — VS

LOG OF BORING

DAMES & MOORE

OWNER: MINERAL EXPLORATION COMPANY

PROJECT: ANDERSON URANIUM PROJECT

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N 1,204,715 E 93,144 ELEV. 1947

BORING NO. 790

ANGLE FROM HORIZONTAL 90

PAGE 1 OF 1

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BULK OR DRIVEN SAMPLES BLOWS/FOOT	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (1, 3, 9, 27)	COMMENTS
SAND			BROWN, SILTY FINE TO COARSE, TRACE GRAVEL, TRACE OF CALCAREOUS MATERIAL, DRY, LOOSE GRADES VERY DENSE WITH TRACE OF CEMENTED LAYERS	10			(50/1") (87/8") (52) ((50/½")				DRILL METHOD: 6" HOLLOW STEM AUGER 3" O.D. MODIFIED SAMPLER 140 # HAMMER WITH 30" DROP
			BORING TERMINATED AT 16.5' ON 3/13/79	20							NO GROUNDWATER ENCOUNTERED

FR — SW — MW — HW — XW

VW — W — MS — S — VS

LOG OF BORING

DAMES & MOORE

OWNER: MINERALS EXPLORATION COMPANY — BORING NO. [illegible]

PROJECT: ANDERSON URANIUM PROJECT — ANGLE FROM HORIZONTAL [illegible]

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N 1,206,235 E 92,910 — ELEV. 1545 — PAGE 2 OF [illegible]

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BULK SAMPLES TAKEN (BLOWS/FOOT)	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (3 9 27)	COMMENTS
			FABRIC NOT APPARENT			100			67		
			CALCAREOUS STRINGERS AND FRACTURE FILLINGS			100		HEALED FRACTURES, SOME PREFERENTIAL STRIKE	98		
			GRADES DECREASED VUGS			100			65		
						95			93		
			SLIGHT FABRIC AT 30° DIP			100		1/8" WIDE CLAY FILLED FRACTURE	45		
						100		HEALED AND PARTIALLY HEALED FRACTURES	70		
			GRADES INCREASED VUGS			100			88		
						100			73		
			CALCITE STRINGERS PARALLEL AND VERTICAL TO FABRIC			100		FRACTURES PARALLEL AND AT 90° TO FABRIC	100		
			FABRIC AT 45° DIP			100			88		
			BORING TERMINATED AT 130.0' ON 4/12/79								NO GROUND WATER ENCOUNTERED

FR SW MW HW XW — VW W MS S VS

LOG OF BORING

DAMES & MOORE

9/4-05-16 UC

OWNER: MINERAL EXPLORATION COMPANY — BORING NO. [illegible]

PROJECT: ANTIPAYU COPPER PROJECT — ANGLE FROM HORIZONTAL

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N 1,206,235 E 92,910 — ELEV. 1945 — PAGE 1 OF

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BLOWS/FOOT SAMPLES (BLOWS/FOOT)	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (3, 9, 27)	COMMENTS
SAND			BROWN, GRAVELLY, SILTY, CALCAREOUS.			25		FRACTURES AT 60° AND 45° DIP, SOME HEALED AND PARTIALLY FILLED WITH CALCITE			DRILL METHOD: HQ TRIPLE TUBE ROTARY CORE
FELSIC VOLCANICS			LT. REDDISH BROWN TO LIGHT BROWN, PHANERITIC, FINE TO COARSE CRYSTALLINE, TRACE OF VUGS AND TRACE FINE GRAINED TUFFACEOUS BANDING			75			75		
						87			21		
						100			0		
						100			17		
			ABUNDANT HEALED FRACTURES FROM 17.5' TO 18', NON-CALCAREOUS			100			91		
			GRADES [illegible] LINED WITH CRYSTALS			100			86		
			23.4' TO 23.6' LARGE (1" DIAMETER VOID WITH CRYSTALS AND FRACTURE FILLINGS UP TO 1/4" WIDE			98		FRACTURES AT 30° DIP, FRACTURE FILLINGS ARE BOTH CALCITE & A NON-CALCAREOUS MINERAL	88		
						87			87		
						100			89		
						98			95		
						100			100		
						100			65		
						100			62		
						100			95		
			FRABIC ORIENTATION AT 30° DIP			100		FRACTURES ALIGNED WITH FABRIC AND ALSO AT 60° DIP OPPOSITE TO FABRIC DIP	96		
						100			73		
			FRABIC DIP 45°			100			45		
						100			50		
			SLIGHTLY CALCAREOUS			100		FRACTURES AT 30°, 45° & 60° DIP — VARYING STRIKE	56		

FR — SW — MW — HW — XW

VW — W — MS — S — VS

LOG OF BORING

DAMES & MOORE

OWNER: MINERALS EXPLORATION COMPANY — BORING NO. 993C

PROJECT: ANDERSON URANIUM PROJECT — ANGLE FROM HORIZONTAL 90°

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N 1,206,471 E 92539 — ELEV. 1938 — PAGE 1 OF 2

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BULK OR DRIVEN SAMPLES (BLOWS/FOOT)	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (1 / 3 / 9 / 27)	COMMENTS
FELSIC VOLCANICS			LIGHT REDDISH BROWN,			27			13		DRILL METHOD: HQ TRIPLE TUBE ROTARY CORE
			SLIGHTLY CALCAREOUS IN FRACTURES AT 5'			100 / 70 / 100		FRACTURES AT 45° AND 60° DIP	0 / 0 / 0		
				10		60			17		
						94		HEALED FRACTURES	80		
						100		TRACE CALCITE STRINGERS	90		
				20		100		FRACTURES AT 20° TO 30° DIP	83		
						100		CRYSTAL GROWTH IN SOME FRACTURES	68		
				30		100			97		LOST DRILL FLUID CIRCULATION INITIALLY AT 32.5'
			COLOR BANDING ALIGNS WITH FRACTURE ORIENTATION			100		FRACTURES AT 20° DIP	97		LOSSES SPORADIC BELOW 32.5' TO 65'
			GRADES RED TO WHITE TO LIGHT GRAY	40		100			78		
						100			92		
			GRADES DARK RED TO WHITE	50		100		GRADES W/ PARTIALLY FILLED VUGS AND FRACTURES	93		
						98			82		
				60		100			77		
						100			93		
				70		100			100		
						100			80		

FR — SW — MW — HW — XW

VW — W — MS — S — VS

LOG OF BORING

DAMES & MOORE

OWNER: MINERALS EXPLORATION COMPANY — BORING NO. 993C

PROJECT: ANDERSON URANIUM PROJECT — ANGLE FROM HORIZONTAL 90°

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N 1,206,471 E 92539 — ELEV. 1938 — PAGE 2 OF 2

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BLOW COUNTS (BLOWS/FOOT)	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (3, 9, 27)	COMMENTS
FELSIC VOLCANICS			DARK RED TO WHITE RHYOLITIC, CALCAREOUS STRINGERS FROM 80' TO 118'			100		FRACTURES AT 30° DIP	85		
						100			70		
				90		100		HEALED FRACTURES AT 45° DIP, VARYING STRIKE	100		
						100			63		
				100		100			93		
						100			82		
				110		100			97		
						98		FRACTURES ALLIGNED WITH BANDING AT 45° DIP	72		
				120		100			100		
						100			75		
			BORING TERMINATED AT 129.0' ON 4/9/79								NO GROUNDWATER ENCOUNTERED

FR — SW — MW — HW — XW

VW — W — MS — S — VS

LOG OF BORING

DAMES & MOORE

OWNER: MINERALS EXPLORATION COMPANY — BORING NO. SE4C

PROJECT: ANDERSON URANIUM PROJECT — ANGLE FROM HORIZONTAL 90°

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N 1,204,939 E 93831 — ELEV. 2004 — PAGE 1 OF 2

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BULK SAMPLES (BLOWS/FOOT)	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (1 3 9 27)	COMMENTS
FELSIC VOLCANICS			REDDISH BROWN TO GRAY, PHANERITIC, FINE TO COARSE CRYSTALLINE, TRACE OF VUGS AND TRACE FINE GRAINED TUFFACEOUS BANDING			75			21		DRILL METHOD: HQ TRIPLE TUBE ROTARY CORE
			CALCAREOUS INTERVALS			92			0		
						92			0		
						100		VARIOUS FRACTURES AT 30° AND 45° DIP	50		
			GRADES TRACE OF VUGS, SOME FILLED	10		100		FRACTURES HEALED OR PARTIALLY FILLED WITH CALCITE AND SILICIOUS MATERIAL	60		
						100			67		
			FABRIC INDISTINCT	20		100			80		
			SLIGHT FABRIC			100			73		
				30		100		FRACTURES AT 45° AND 60° DIP, VARYING STRIKE, SOME HEALED	73		
			GRADING TO GRAY AND RED AND WHITE								
			HEALED FRACTURE WITH VUG (1") DIAMETER) AT 26.2' - LINED WITH QUARTZ CRYSTALS			100			88		
				40		100			95		
			FABRIC INDISTINCT			98		FRACTURES AT 45° WITH OPPOSITE DIP	75		
			DISTINCT FABRIC AT 45° DIP	50		98			55		
			NONCALCAREOUS FILLED FRACTURE AT 60' WITH SOME CALCAREOUS STRINGERS	60		98			75		
						100			88		
						100		FRACTURES AT 45° AND 60° DIP	85		
				70		100			95		
						100			80		

FR SW MW HW XW — VW W MS S VS

LOG OF BORING

DAMES & MOORE

FINAL EDIT 6-20-79 WB

5141-015-16 MINERALS

OWNER: MINERALS EXPLORATION COMPANY — BORING NO. S-16

PROJECT: ANDERSON URANIUM PROJECT — ANGLE FROM HORIZONTAL

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N 1,204,939 E 93,831 ELEV. 2004 — PAGE 2 OF

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BULK OR DRIVEN SAMPLES (BLOWS/FOOT)	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (1 3 9 27)	COMMENTS
FELSIC VOLCANICS			NONCALCAREOUS MATERIAL ON FRACTURE SURFACE WITH OCCASIONAL CALCAREOUS MATERIAL FROM 87'-70.5'	90		100			90		
						100			95		
						100			85		
						97		FRACTURES AT 30° AND 45° DIP	87		
			FABRIC LESS DISTINCT	100							
			CALCAREOUS MATERIAL IN HEALED FRACTURES AND VUGS TO 1/4" DIAMETER			100		FRACTURES AT 45° AND 60° DIP WITH VARYING STRIKE	83		
						100			52		
				110		98			85		
						98			82		
				120		100		FRACTURED AND VUGGY WITH STRINGERS AND FILLING OF NON CALCAREOUS MATERIAL 122.5' TO 124.2'	73		
						100			73		
						100			83		
				130		100			100		
			CALCAREOUS FILLED FRACTURES WITH NON-CALCAREOUS STRINGERS			97			55		
				140		100		FRACTURES AT 45° DIP WITH OCCASIONAL 60° DIP, VARYING STRIKE	63		
						98			92		
				150		100			57		
			DISTINCT FABRIC AT 45° DIP			100			68		NO GROUNDWATER ENCOUNTERED

FR SW MW HW XW — VW W MS S VS

BORING TERMINATED AT 160.0' ON 4/18/79

LOG OF BORING

DAMES & MOORE

9141-075-16

OWNER: MINERALS EXPLORATION COMPANY — BORING NO. [illegible]

PROJECT: ANDERSON URANIUM PROJECT — ANGLE FROM HORIZONTAL [illegible]

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N _____ E _____ ELEV. _____ — PAGE 1 OF [illegible]

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BULK SAMPLES & SPOON BLOWS/FOOT	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (1 3 9 27)	COMMENTS
SAND			LIGHT BROWN, FINE SANDY, SILTY, WITH TRACE OF GRAVEL AND BOULDERS, LOOSE			8 13 0 0					DRILLING METHOD: HQ TRIPLE TUBE ROTARY
CLAYSTONE			LT. GRAY, SILTY, V. CALC. WITH LENSES OF CLAYEY LIMESTONE	19		63			28		
SILTSTONE			OLIVE GREEN, FINE SAND, CLAYEY, CALC., GRADES WITH CLAYEY LIMESTONE LENSES SAND GRADES WITH INCREMENTS 20'-22.5'	22		72 100		FRACTURES W/ SLICKENSIDES @ 13.5', 14', 17'	43 12		
CLAYSTONE			OLV. GREEN, CALC. TRACE CLAYEY LS. INTERBEDS						19		
[illegible]			OLIVE GN., CALC. TRACE OF CHERT AT 29'	33		53			43		
[illegible]			OLIVE GN., SILTY TRACE OF CALC. ZONES SILICEOUS INTERVALS THRESHOLD GRADES WITH CLAYEY LIMESTONE LENSES 37'-38.5'			[illegible]		FRACTURES W/ SLICKENSIDES @ 33.5'	55		
[illegible] L.S.			OLIVE GN. CALC. CLAYSTONE INTERBEDDED W/ LT. GREEN SILTY, CLAYEY L.S.			50			13		
SILTSTONE			OLIVE GN. FINE SANDY, CLAYEY, TRACE CALC.	50		78			43		
SILTSTONE			OLIVE GN., CLAYEY, CALC., TRACE FINE SANDY LAYERS, GRADES SILICEOUS @ 58'			72			79		
LIMESTONE			WT. TO LT. GRAY, CLAYEY, CHERTY TRACE OF THIN SILTY LAYERS			[illegible]			88 54		
SILTSTONE			OLIVE GN, FINE SANDY, CALC., WITH CLAYEY TO SANDY INTERBEDS GRADES WITH NON-CALC. TO VERY CALC. LAYERS, WT. CLAYEY L.S. LAYERS AT 70', 68' TO 72.5' & 76' TO 80'. TRACE CHERT @ 78'			[illegible]		FRACTURES W/ SLICKENSIDES @ 69.7-[illegible]	96 87 73 85		

FR — SW — MW — HW — XW

VW — W — MS — S — VS

LOG OF BORING

DAMES & MOORE

OWNER: MINERALS EXPLORATION BORING

PROJECT: ANDERSON URANIUM PROJECT

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N _____ E _____ ELEV. _____

BORING NO. 995

ANGLE FROM HORIZONTAL 90°

PAGE 2 OF 2

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BULK OR DRIVEN SAMPLES BLOWS/FOOT	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (1 3 9 27)	COMMENTS
SILTSTONE						100			72		
						100			72		
LIMESTONE			LT. GRAY TO WHITE CLAYEY, CHERTY WITH TRACE CLAYSTONE LAMINATIONS			96			96		
SILTSTONE			LT. OLIVE GN., CALC.-GRADED SILTSTONE					FRACTURE W/ SLICKENSIDES AT 90.5'			
LIMESTONE			LT. GRAY TO WHT., CLAYEY WITH TRACE OF CLAYSTONE LAMINATIONS			100			13		
			BORING TERMINATED AT 99.5' ON 7/15/79	99							NO GROUNDWATER ENCOUNTERED

FR SW MW HW XW — VW W MS S VS

LOG OF BORING

DAMES & MOORE

OWNER: MINERALS EXPLORATION COMPANY — BORING NO. 996 C

PROJECT: ANDERSON URANIUM PROJECT — ANGLE FROM HORIZONTAL 90°

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N 120540 E 91750 — ELEV. 1940.0 — PAGE 1 OF 2

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BULK OR DRIVEN SAMPLES (BLOWS/FOOT)	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (0 – 3 – 9 – 27)	COMMENTS
LIMESTONE			LIGHT GRAY TO WHITE, SILTY, CLAYEY			50			25		DRILL METHOD: HQ TRIPLE TUBE ROTARY CORE
						100		HEAVILY FRACTURED, SEVERAL ORIENTATIONS	34		
						58			21		
CLAYSTONE			OLIVE GREEN TO GRAY SILTY CALCAREOUS			92			0		
LIMESTONE			LIGHT GRAY, CLAYEY	0							
CLAYSTONE			OLIVE GREEN TO GRAY, SILTY CALCAREOUS			100			20		
								FRACTURE WITH SLICKENSIDES AT 14'8" AND 17'4"			
LIMESTONE			LIGHT GRAY, CLAYEY, CHERTY			100			86		
LIMESTONE MARL			LIGHT GRAY TO WHITE, CLAYEY WITH SILTSTONE AND CLAYSTONE LAYERS	20				IRREGULAR FRACTURES MOST WITH SLICKENSIDES	92		
						100					
						100			81		
				30		97			92		
						100			100		
SANDSTONE			OLIVE GREEN TO GRAY, SILTY WITH LIMESTONE LENSES								
				40		100			95		
CLAYSTONE			OLIVE GREEN TO GRAY, SILTY WITH THIN SANDSTONE LAMINATIONS, TRACE LIMESTONE					FRACTURES PARALLEL TO BEDDING			
						100			90		
SANDSTONE			OLIVE GREEN TO GRAY, FINE CALCAREOUS, CLAYEY			98			90		
LIMESTONE			LIGHT GRAY, SILTY	50							
			SHADES CHERTY AT 54'			98			86		
SILTSTONE — LIMESTONE			OLIVE GREEN TO GRAY, VERY FINE SANDY, CALCAREOUS SILTSTONE INTERBEDDED WITH LIGHT GRAY, SILTY LIMESTONE AND SOME CLAY			100			86		
				60							
						100			77		
						100			87		
				70							
						100			90		
LIMESTONE			LIGHT GRAY TO WHITE, SILICEOUS			100			27		

WEATHERING: FR, SW, MW, HW, XW — STRENGTH: VW, W, MS, S, VS

LOG OF BORING

DAMES & MOORE

OWNER: MINERALS EXPLORATION COMPANY — BORING NO. 996 C

PROJECT: ANDERSON URANIUM PROJECT — ANGLE FROM HORIZONTAL 90°

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N 1205340 E 91780 — ELEV. 1940.0 — PAGE 2 OF 2

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BULK OR DRIVEN SAMPLES (BLOWS/FOOT)	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (– 3 9 27)	COMMENTS
LIMESTONE			LIGHT GRAY TO WHITE, SILICEOUS			100			50		
CHERT			RED AND WHITE								
LIMESTONE						100			88		
CLAYSTONE			LIGHT GRAY, SILTY								
LIMESTONE			LIGHT GRAY, SILTY, CLAYEY	90		100			90		
SILTSTONE			OLIVE GREEN, CLAYEY								
LIMESTONE			WHITE TO RED, SILTY, FINE								
SILTSTONE			GREENISH RED CLAYSTONE INTERBEDDED WITH GRAY SILTSTONE			100			92		
LIMESTONE			WHITE TO RED, SILTY								
						100			62		
			BORING TERMINATED AT 101.0' ON 1/15/79								NO GROUNDWATER ENCOUNTERED

WEATHERING: FR, SW, MW, HW, XW

STRENGTH: VW, W, MS, S, VS

LOG OF BORING

DAMES & MOORE

OWNER: MINERALS EXPLORATION COMPANY — BORING NO. 5076

PROJECT: ANDERSON URANIUM PROJECT — ANGLE FROM HORIZONTAL 90°

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N 105,450' E 90,750' ELEV. 1925' — PAGE 1 OF 4

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BULK OR DRIVEN SAMPLE BLOWS/FOOT	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (3, 9, 27)	COMMENTS
LIMESTONE/ SILTSTONE			LIGHT GRAY, SILICEOUS, CHERTY LIMESTONE 1' TO 2' THICK INTERBEDDED WITH MEDIUM GRAY, CALCAREOUS, FINE SILTSTONE	10		45			6		
						80			33		
						50			54		
						82			74		POSSIBLY DOLOMITE, EFFERVESCES SLOWLY
						100			57		
LIMESTONE			LIGHT TO MEDIUM GRAY, FINE TO MICROCRYSTALINE	20		100			75		
			CONTAINS SMALL SOLUTION CAVITIES AND SILTLY AREAS			100			52		
SILTSTONE			LIGHT BROWN TO GREEN TO GRAY			100			72		
LIMESTONE			LIGHT GRAY, MICROCRYSTALINE WITH SMALL CHERT NODULES	30							
SILTSTONE			OLIVE GREEN, FINE, SANDY			97			77		
LIMESTONE			LIGHT GRAY, FINE TO MICRO-CRYSTALINE			94			67		
						100			76		
			SILTY FROM 39' TO 54'	40		98			75		WHITE SPOTS-POSSIBLE FOSSILS
						98			75		
						100			88		
			CONTAINS CHERT NODULES FROM 48' TO 50'	50		100			63		
SILTSTONE			OLIVE GREEN, CALCAREOUS, CLAYEY			100		FRACTURES AT 58.5' AND 59.2' ≈ 60° WITH SLICKENSIDES	56		
			CONTAINS CALCAREOUS CLASTS AND WHITE LIMESTONE INTERBEDS	60		100		MOST FRACTURES PARALLEL TO BEDDING	97		
LIMESTONE			LIGHT GRAY, SILTY, FINE			100			77		
			CONTAINS PATCHES OF GREEN TO GRAY SILTSTONE (MARL)	70		95			75		
						100			100		

FR — SW — MW — HW — XW

VW — W — MS — S — VS

LOG OF BORING

DAMES & MOORE

OWNER: MINERALS EXPLORATION COMPANY — BORING NO. 997C

PROJECT: JACKPILE URANIUM PROJECT — ANGLE FROM HORIZONTAL 90°

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N 1,055,650 E 90,750 — ELEV. 1935 — PAGE 2 OF 4

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BULK OR DRIVEN SAMPLES (BLOWS/FOOT)	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (1, 3, 9, 27)	COMMENTS
			LIGHT TO MEDIUM GRAY, SILTY, CLAYEY, FINE			16			95		
SILTSTONE/ LIMESTONE/ CLAYSTONE			RED TO GREEN TO GRAY, CLAYEY, CALCAREOUS SILTSTONE INTERBEDDED WITH MEDIUM TO DARK GRAY CLAYSTONE AND LIGHT TO MEDIUM GRAY, SILTY LIMESTONE	50		97		MOST FRACTURES PARALLEL TO BEDDING	65		
						100			60		
						92		FRACTURE 97.1' TO 97.3' HEALED WITH SILICA	44		
						100			23		
SILTSTONE			GRAY TO RED TO YELLOW, CLAYEY	100		67			22		
						33			0		
						30			0		
SANDSTONE/ SILTSTONE			GREEN TO GRAY TO YELLOW, SILTY, VERY FINE SANDSTONE INTERBEDDED WITH RED TO GREEN TO GRAY, SHALEY SILTSTONE			41		POORLY INDURATED	0		
				110		67			0		
						4			0		
						100			100		
SANDSTONE			GREEN TO GRAY, ARKOSIC, VERY FINE TO FINE			100			100		
				120		100			100		
			CALCAREOUS 118' TO 128'			100			100		
			GYPSUM STRINGERS AND NODULES 123' TO 125'			100		MOST FRACTURES HORIZONTAL, PARALLEL TO BEDDING	88		
			FELDSPAR, QUARTZ, AND ROCK FRAGMENTS 130' TO 140'	130		100			88		
			CALCAREOUS 125' TO 140'			100			100		
SILTSTONE			GREEN TO GRAY, CLAYEY, CALCAREOUS	140		100		60° FRACTURE AT 144.6'	97		
SANDSTONE			GREEN TO GRAY, CLAYEY, SILTY			100		POORLY INDURATED	100		
				150							
SANDSTONE/ CLAYSTONE			GREEN TO GRAY, CLAYEY, CALCAREOUS, FINE SANDSTONE INTERBEDDED WITH MEDIUM GRAY CLAYSTONE			98			98		
						100		60° FRACTURE AT 158'	97		

FR — SW — MW — HW — XW

VW — W — MS — S — VS

LOG OF BORING

DAMES & MOORE

OWNER: [illegible] EXPLORATION COMPANY — BORING NO. 997C

PROJECT: ANDERSON MESA URANIUM PROJECT

FEATURE: [illegible] TAILINGS IMPOUNDMENT — ANGLE FROM HORIZONTAL 90°

COORDINATES N [illegible] E 5750 — ELEV. 1935 — PAGE 3 OF 4

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BULK OR DRIVEN SAMPLES (BLOWS/FOOT)	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (1 3 9 27)	COMMENTS
SANDSTONE / SILTSTONE			[illegible] CLAYEY [illegible] SILTSTONE	170		100		POOR TO MODERATE INDURATION	83		
						100		TWO ESD FRACTURES AT 163.3' AND 163.6'	85		
						100		MOST FRACTURES PARALLEL TO BEDDING	90		
			[illegible] SILTSTONE			88			87		
				180		100			80		
						97			92		
[illegible] STONE			[illegible] SANDY BED	190		100			34		
[illegible] SILTSTONE			[illegible] SILTSTONE WITH CLAY TO [illegible] SILTSTONE			100			85		
				200		100		FRACTURE WITH SLICKENSIDES AT 205.1'	44		
SANDSTONE			[illegible] FINE TO MEDIUM [illegible] CALCAREOUS, TRACE OF [illegible] AND METAMORPHIC			100		POORLY INDURATED CRUMBLES ON HANDLING	82		
				210		97			93		
SANDSTONE / CONGLOMERATE			[illegible] FINE TO COARSE SAND, GRAVEL, AND [illegible] OF COBBLES [illegible] MATERIALS, TUFFACEOUS, SILT MATRIX, TRACE OF SAND AND GRAVEL OF METAMORPHIC MATERIAL, LAMINATED			98		DIORITE FRAGMENTS MORE HEAVILY WEATHERED THAN OTHERS	92		
				220		100			88		
						95		POORLY INDURATED	92		
				230		100			100		
						70			68		LOST CORE 238.5' TO 240'

FR SW MW HW XW — VW W MS S VS

LOG OF BORING

DAMES & MOORE

OWNER: MINERALS EXPLORATION COMPANY

PROJECT: ANDERSON URANIUM PROJECT

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

BORING NO. B-7C

ANGLE FROM HORIZONTAL 90°

COORDINATES N 24,550 E 20,175 ELEV. 1525

PAGE 4 OF 4

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BULK OR DRIVEN SAMPLES (BLOWS/FOOT)	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (1 3 9 27)	COMMENTS
SANDSTONE / CONGLOMERATE				150		100 100 100		MOST FRACTURED AT INTERFACE BETWEEN LARGE FRAGMENTS AND MATRIX	70 67 93		
ANDESITE BRECCIA			RED, VESICULAR, FRACTURED PORPHYRITIC ANDESITE	260		100 100		CALCITE FILLING OF VESICLES AND FRACTURES. MOST FRACTURES HEALED	70 100		
ANDESITE			GRADED TO GRAY, APHANITIC MATRIX WITH WHITE PHENOCRYSTS OF SLIGHTLY ALTERED FELDSPAR	270		100 100			100 100		
			BORING TERMINATED AT 274.0' ON 1/12/79	280							NO GROUNDWATER ENCOUNTERED

WEATHERING: FR, SW, MW, HW, XW

STRENGTH: VW, W, MS, S, VS

LOG OF BORING

DAMES & MOORE

OWNER: MINERALS EXPLORATION COMPANY — BORING NO. 998 C

PROJECT: ANDERSON URANIUM PROJECT — ANGLE FROM HORIZONTAL 90°

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N 123690 E 91350 — ELEV. 1991 — PAGE 1 OF 2

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BULK OR DRIVEN SAMPLES (BLOWS/FOOT)	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (3, 9, 27)	COMMENTS
LIMESTONE			WHITE, EXTENSIVELY ALTERED TO KAOLINITE			0			0		DRILL METHOD: HQ TRIPLE TUBE ROTARY CORE
						67			0		
CLAYSTONE			LIGHT GRAY, CALCAREOUS, KAOLIN								
LIMESTONE			LIGHT GRAY TO WHITE, SILTY, CLAYEY			100			70		
			MED. GRAY, SILTY	10				FRACTURES PARALEL TO BEDDING			
			LIGHT GRAY TO WHITE, SILTY, CLAYEY			100			95		
						100			86		
				20							
						100			86		
SILTSTONE			TAN TO GRAY, CALCAREOUS, CLAYEY, MEDIUM GRAINED			93			93		
LIMESTONE / SILTSTONE			1' THICK LIGHT GRAY, CHERTY LIMESTONE INTERBEDDED WITH 0.3' TO 0.5' THICK GRAY SILTSTONE BEDS	30		100		FRACTURES WITH SLICKENSIDES 32.5' TO 33.7'	92		
SILTSTONE			GREEN TO GRAY, CALCAREOUS, CLAYEY, WELL INDURATED, SILICEOUS			100			63		SOME CORE DAMAGED BARREL JAMMED
LIMESTONE			MEDIUM TO LIGHT GRAY, CLAYEY	40		100			83		
SILTSTONE			OLIVE GREEN, CALCAREOUS, CLAYEY WITH SMALL LIGNITIC AND CALCAREOUS CLASTS			100			95		
				50							
						100			88		
						100			98		
			GRADES LESS CLAYEY, LESS CALCAREOUS AT 60.0'	60							
			GRADES TO SANDSTONE			100		FRACTURE AT 45° ANGLE	95		
SANDSTONE			OLIVE GREEN, CALCAREOUS, SILTY, FINE TO VERY FINE WITH LIGNITIC AND CALCAREOUS CLASTS, GYPSIFEROUS CLASTS AND STRINGERS FROM 65.5'			100			95		
				70							LOST CIRCULATION AT 70' USED FIBER TO PLUG LEAK
						100			96		
			GRADES FINER								
SILTSTONE			GREEN TO GRAY, CALCAREOUS WITH CALCAREOUS CLASTS			100			82		

WEATHERING: FR, SW, MW, HW, XW

STRENGTH: VW, W, MS, S, VS

LOG OF BORING

DAMES & MOORE

OWNER: MINERALS EXPLORATION COMPANY — BORING NO. 998 C

PROJECT: ANDERSON URANIUM PROJECT — ANGLE FROM HORIZONTAL 90°

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N 1206090 E 91350 — ELEV. 1991 — PAGE 2 OF 2

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BULK OR DRIVEN SAMPLES (BLOWS/FOOT)	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (1 3 9 27)	COMMENTS
LIMESTONE			LIGHT GRAY TO WHITE, SILTY GRADES TO SILTSTONE								CIRCULATION LOSS AGAIN AT 80'
SILTSTONE			GREEN TO GRAY, SLIGHTLY CALCAREOUS, WITH FINE TO VERY FINE SAND			100			100		ATTEMPT TO PLUG HOLE FAILED
						100			62		
			CONTAINS SOME GYPSUM STREAKS	90		100			50		
SANDSTONE			GRADES COURSE GREEN TO GRAY, SILTY, FINE TO VERY FINE THINLY BEDDED								DRILLING PROGRESSING WITHOUT CIRCULATION
						100			36		
			GRADES VERY CALCAREOUS, SILTY	100		97			86		
SILTSTONE			RED, GREEN, GRAY INTERBEDDED SILTSTONE. THINLY LAMINATED, CLAYEY, CALCAREOUS, CONTAINING GYPSUM			87			16		
CHERTY LIMESTONE			LIGHT GRAY TO WHITE WITH RED CHERT	110		100			70		
						100			20		
SANDSTONE / CLAYSTONE			GREEN TO GRAY, SILTY, FINE WITH BENTONITE AND CLAYSTONE INTERBEDDED								
LIMESTONE			LIGHT GRAY TO WHITE, SILTY			100			53		
SILTSTONE / CLAYSTONE			GREEN TO GRAY SILTSTONE, WHITE SILTSTONE INTERBEDDED WITH RED CLAYSTONE								
SILTSTONE			GREEN TO GRAY, FINE SAND, WITH CALCAREOUS CASTS	120		100			78		
SANDSTONE			LIGHT BROWN TO REDDISH BROWN, ARKOSIC, TUFFACEOUS GRADES COURSE			100			95		
			GRADES FINE	130		100			100		
			GRAVEL SIZE MATERIAL FROM 135' TO 150'								
			GRADES COURSE WITH TRACE OF VOLCANIC AND METAMORPHIC GRAVEL, ROUNDED LESS THAN 1 1/2" IN DIAMETER			100			90		
				140		100			95		
								LARGE FRACTURE ZONE AT 142.5' PARTIALLY HEALED			
			SLIGHTLY CALCAREOUS FROM 142' TO 145'			100			100		
						100			100		
			BORING TERMINATED AT 150.0' ON 1/12/79								NO GROUNDWATER ENCOUNTERED

FR — SW — MW — HW — XW

VW — W — MS — S — VS

LOG OF BORING

DAMES & MOORE

OWNER: MINERALS EXPLORATION COMPANY — BORING NO. 999C

PROJECT: ANDERSON URANIUM PROJECT — ANGLE FROM HORIZONTAL 90°

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N 20551.? E 91,650.? ELEV. 19787 — PAGE 1 OF 3

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BULK OR DRIVEN SAMPLES (BLOWS/FOOT)	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (3 9 27)	COMMENTS
LIMESTONE			LIGHT GRAY, SILICEOUS, WITH CHERT AT 1.5' TO 1.9'			65		SEVERAL CLAY FILLED FRACTURES VERTICAL FRACTURES AT 2.5' TO 3.0' AND 4.5' TO 4.8'	12		
SILTSTONE			LIGHT GRAY, CALCAREOUS, ALTERNATING WITH GREEN, RED, CLAYEY			42			14		
				10		100		MOST FRACTURES HORIZONTAL, PARALLEL TO BEDDING	50		
						100			29		
LIMESTONE			LIGHT GRAY TO RED, MASSIVE			88			30		
SILTSTONE			RED TO GREEN TO GRAY, CLAYEY, THINLY BEDDED, LIMONITE STAINED, WITH GYPSUM INTERBEDS	20		100		POORLY INDURATED	62		
						47			0		
						100			25		
CLAYSTONE			GREEN TO GRAY, SILTY SOME ALEB, HEMATITE, LIMONITE STAINED	30		100			42		BIT JAMMED NO PENETRATION
SILTSTONE			RED TO GREEN TO GRAY, CLAYEY			100			83		
						40		SOME FRACTURES IRON STAINED, SOME CONTAIN GYPSUM	15		
						97			30		
SANDSTONE			MEDIUM GRAY, SILTY, MEDIUM TO FINE	40		97			30		
			TAN TO GRAY, CLAYEY, ARKOSIC, FINE, GRADES COURSE			100		POORLY INDURATED	86		
						92			85		
			CONTAINS GYPSUM NODULES AND STRINGERS 50' TO 55'	50		100			100		
						100			100		
			GRADES FINER, CLAYEY	60		100			100		
			CONTAINS GYPSUM NODULES AND CALCAREOUS CLASTS AT 65'			100			94		
SANDSTONE/ SILTSTONE			LIGHT BROWN, MEDIUM TO FINE SANDSTONE 1' THICK INTERBEDDED WITH GREEN TO GRAY FINE, SANDY SILTSTONE 1' THICK	70		100			100		
						94			94		

WEATHERING: FR, SW, MW, HW, XW

STRENGTH: VW, W, MS, S, VS

LOG OF BORING

DAMES & MOORE

OWNER: MINERALS EXPLORATION COMPANY — BORING NO. 995C

PROJECT: ANDERSON URANIUM PROJECT — ANGLE FROM HORIZONTAL 90°

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N 1305510 E 91450 ELEV. 1878 — PAGE 2 OF 3

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BULK OR DRIVEN SAMPLES (BLOWS/FOOT)	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (1, 3, 9, 27)	COMMENTS
SANDSTONE			GREEN TO GRAY TO BROWN, MEDIUM TO FINE								
SANDSTONE / CLAYSTONE			GRAY TO LIGHT BROWN TO RED, FINE, MICACEOUS, FELDSPATIC SANDSTONE 0.5' THICK INTERBEDDED WITH 0.2' THICK LAYERS GREEN BENTONITIC CLAYSTONE	90		88		FRACTURES HEALED AT 88.5' TO 89.5'	95		
						97			33		
SANDSTONE			LIGHT BROWN TO RED, ARKOSIC, MEDIUM TO FINE			100		POORLY INDURATED	84		
SANDSTONE / CLAYSTONE			LIGHT BROWN TO RED MEDIUM TO FINE ARKOSIC SANDSTONE 0.5' THICK INTERBEDDED 0.2' TO 0.3' THICK BENTONITIC CLAYSTONE	100		97			92		
SANDSTONE			LIGHT BROWN TO RED, ARKOSIC, FINE,			90		FRACTURES WITH SLICKENSIDES AT 103.8'	15		EXTRA 0.8' DRILLED, JAMMED IN BARREL, SOME CORE DAMAGED
						100			33		
CLAYSTONE			RED TO BROWN, SILTY	110							
SILTSTONE / CLAYSTONE			RED TO BROWN, FINE SANDY, INTERBEDDED WITH GREEN TO YELLOW BENTONITIC CLAYSTONE			88			77		
SANDSTONE / CLAYSTONE			GREEN TO RED TO YELLOW, SILTY SANDSTONE INTERBEDDED WITH SILTY CLAYSTONE			50			70		
CLAYSTONE			RED TO GREEN TO BROWN ALTERNATING LAYERS, SILTY	120				POORLY INDURATED			
SANDSTONE			RED TO LIGHT BROWN, ARKOSIC FINE TO MEDIUM, CROSSBEDDED			100			87		
SILTSTONE			RED TO GREEN ALTERNATING LAYER, CLAYEY								
SANDSTONE			RED TO LIGHT BROWN, CLAYEY, SOME ZONES CALCAREOUS			100			94		
SILTSTONE / SANDSTONE / CLAYSTONE			RED TO BROWN CLAYEY SILTSTONE LESS THAN 2' INTERBEDDED WITH GREEN TO GRAY SILTY SANDSTONE LESS THAN 1' AND BROWN TO YELLOW CLAYSTONE LESS THAN 1'	130		100			80		
SANDSTONE			REDDISH BROWN, MEDIUM TO FINE ARKOSIC INTERBEDDED WITH GREEN TO GRAY FINE			80			27		ANGLE OF BEDDING ≈ 10° FROM HORIZONTAL
				140		100			100		
SANDSTONE / CONGLOMERATE			REDDISH BROWN, FINE TO COARSE, NONCALCAREOUS TO SLIGHTLY CALCAREOUS SAND GRAVEL AND TRACE OF COBBLES OF VOLCANIC MATERIALS, TUFFACEOUS SILT MATRIX, TRACE OF SAND AND GRAVEL OF METAMORPHIC MATERIAL, ROUNDED			100			100		
				150		100			100		
						100			100		
			GRADES INCREASED COBBLES AND METAMORPHIC MATERIAL			100		FRACTURES OCCUR AT CONTACT OF MATRIX WITH ROCK FRAGMENTS	93		

FR — SW — MW — HW — XW

VW — W — MS — S — VS

LOG OF BORING

DAMES & MOORE

OWNER: MINERALS EXPLORATION COMPANY — BORING NO. 9SC

PROJECT: ANDERSON URANIUM PROJECT — ANGLE FROM HORIZONTAL 90°

FEATURE: PROPOSED TAILINGS IMPOUNDMENT

COORDINATES N 1205510 E 91450 — ELEV. 1978 — PAGE 3 OF 3

MATERIAL TYPE	WEATHERING (SEE BELOW)	STRENGTH (SEE BELOW)	DESCRIPTION OF MATERIAL	DEPTH	GRAPHIC LOG	LIFT & CORE RECOVERY (%)	BULK OR DRIVEN SAMPLES (BLOWS/FOOT)	DESCRIPTION OF MATERIAL DEFECTS	RQD	FRACTURES PER FOOT (1 / 3 / 9 / 27)	COMMENTS
						100			0		BIT JAMMED, NO RECOVERY
						0			0		
			CASING TERMINATED AT 167.0' ON 1/6/75	170							NO GROUND WATER ENCOUNTERED

FR — SW — MW — HW — XW

VW — W — MS — S — VS

LOG OF BORING

DAMES & MOORE