

APPENDIX 4
Magnetic Susceptibility Readings

Drill-hole ID	From	To	Colour	Lithology	Possible Stratigraphic Formation	NTGS LithCode	Magnetic Susceptibility (10-5 SI)	Mag Sus (medium value)
LV09-001	0.00	1.00	Gy	sand	Tertiary sand	Qa	10	10
LV09-001	1.00	59.40	YeOr+Pk+Gn	fine-medium sandstone with siltstone interbeds	Bukalara Sandstone	Clb	0 to 6	0.5
LV09-001	59.40	87.45	PkPu	fine-medium sandstone	Bukalara Sandstone	Clb	0 to 6	3
LV09-001	87.45	88.05	Gn+Bn	siltstone	Bukalara Sandstone	Clb	0 to 6	3
LV09-001	88.05	104.90	PkPu	fine-grained sandstone with siltstone interbeds	Bukalara Sandstone	Clb	0 to 6	3
LV09-001	104.90	110.85	PkBn	haematitic fine-medium sandstone	Bukalara Sandstone	Clb	0 to 4	2
LV09-001	110.85	113.20	Gn+Bn	siltstone	Bukalara Sandstone	Clb	0 to 3	1.5
LV09-001	113.20	114.55	BnCr	medium-grained sandstone	Bukalara Sandstone	Clb	0	0
LV09-001	114.55	118.65	Bn+Gn	fine-grained sandstone + siltstone	Bukalara Sandstone	Clb	0	0
LV09-001	118.65	130.70	Gn+(Bn)	medium-grained sandstone	Bukalara Sandstone	Clb	0 to 8	4
LV09-001	130.70	132.75	Gn+Bn	fine-grained clayey sandstone with ?haematite after magnetite or ilmenite	Bukalara Sandstone	Clb	12 to 16	14
LV09-001	132.75	134.55	Bn	fine-medium sandstone	Bukalara Sandstone	Clb	5 to 10	7.5
LV09-001	134.55	140.20	Gn	fine-medium sandstone with sulfides	Bukalara Sandstone	Clb	0 to 5	2.5
LV09-001	140.20	141.35	GyGn	interbedded fine and coarse sandstone	Bukalara Sandstone	Clb	0	0
LV09-001	141.35	142.15	GnGy	very coarse sandstone	Bukalara Sandstone	Clb	0	0
LV09-001	142.15	142.50	Gn	siltstone with sulfides	Bukalara Sandstone	Clb	0 to 3	1.5
LV09-001	142.50	148.10	CrWh+Gn	silicified dololutite	Yalco Formation	Pmj	3 to 20	8.5
LV09-001	148.10	155.45	CrWh+Gn	silicified dololutite	Yalco Formation	Pmj	5 to 10	7.5
LV09-001	155.45	166.95	Cr+Gn+Pk	dololutite + dolarenite	Yalco Formation	Pmj	5 to 8	6.5
LV09-001	166.95	171.05	Pk+Cr	dololutite + calcarenite	Hot Spring Member	Pmnh	5 to 10	7.5
LV09-001	171.05	173.40	Cr+Gn	calcarenite	Hot Spring Member	Pmnh	5 to 10	7.5
LV09-001	173.40	180.90	Gn+Cr	dolomitic mudstone + siltstone	Hot Spring Member	Pmnh	5 to 10	7.5
LV09-001	180.90	189.15	GnGy	dolomitic fine-grained sandstone	Hot Spring Member	Pmnh	5 to 10	7.5
LV09-001	189.15	193.20	Gy+BnGy	dolomitic mudstone/ carbonaceous shale + dolomitic sandstone	Hot Spring Member	Pmnh	6 to 10	8
LV09-001	193.20	204.90	GnGy+BnGy	dolomitic siltstone + dolomitic sandstone	Hot Spring Member	Pmnh	8 to 10	9
LV09-001	204.90	207.10	CrBn+GnBn	dolomitic siltstones and pyritic carbonaceous shale	Caranbirini Member	Pmnc	10 to 14	12
LV09-001	207.10	209.45	Cr+GnBn	dololutite + dolomitic shale	Caranbirini Member	Pmnc	5 to 8	6.5
LV09-001	209.45	211.10	Gy	carbonaceous pyritic shale	Caranbirini Member	Pmnc	5 to 8	6.5
LV09-001	211.10	212.80	CrBn+GnBn	dololutite	Caranbirini Member	Pmnc	5 to 7	6

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LV09-001	212.80	215.55	Cr+Gn	dolomitic siltstone/mudstone + dololutite	Caranbirini Member	Pmnc	10 to 12	11
LV09-001	215.55	224.40	Cr+Gn	dolomitic siltstone/mudstone + dololutite	Caranbirini Member	Pmnc	5 to 12	8.5
LV09-001	224.40	240.10	CrBn+GnBn	dolomitic shale + dololutite	Caranbirini Member	Pmnc	7 to 14	10.5
LV09-001	240.10	248.95	Cr+Bn	dolomitic shale + dololutite + dolomitic fine sandstone	Caranbirini Member	Pmnc	3 to 9	6
LV09-001	248.95	255.85	CrBn+GnGy	dololutite+ carbonaceous mudstone + dolomitic fine sandstone	Caranbirini Member	Pmnc	5 to 7	6
LV09-001	255.85	261.60	Cr+Gn	dolomitic carbonaceous mudstone + dolomitic fine sandstone	Caranbirini Member	Pmnc	6 to 8	7
LV09-001	261.60	268.35	Cr+Bn+Gy	dolomitic shale + dololutite	Caranbirini Member	Pmnc	2 to 10	6
LV09-001	268.35	275.65	Cr+BnGy	dololutite + dolomitic mudstone	Caranbirini Member	Pmnc	3 to 6	4.5
LV09-001	275.65	284.00	Cr+GnGy	dololutite + dolarenite + dolomitic carbonaceous shale	Caranbirini Member	Pmnc	4 to 10	7
LV09-001	284.00	285.65	Cr+GnGy	dololutite + dolomitic carbonaceous shale	Caranbirini Member	Pmnc	4 to 10	7
LV09-001	285.65	300.50	Cr+GyBn	dololutite + dolomitic carbonaceous shale	Caranbirini Member	Pmnc	4 to 7	5.5
LV09-001	300.50	305.00	GyBn	dololutite + dolomitic shale	Caranbirini Member	Pmnc	2 to 5	3.5
LV09-001	305.00	306.45	CrGy	dololutite	Caranbirini Member	Pmnc		
LV09-001	306.45	316.30	Gy+Bn	dolomitic siltstone	Caranbirini Member	Pmnc	5 to 9	7
LV09-001	316.30	323.00	Cr+Bn	calcitic dololutite	Caranbirini Member	Pmnc	4 to 7	5.5
LV09-001	323.00	337.35	Cr+GyBn	calcitic dololutite + minor laminated carbonaceous siltstone	Caranbirini Member	Pmnc	3 to 5	4
LV09-001	337.35	339.55	GyBn	calcitic dololutite + laminated carbonaceous siltstone	Caranbirini Member	Pmnc	3 to 4	3.5
LV09-001	339.55	343.70	Cr+Gy	calcitic dololutite + laminated carbonaceous siltstone	Caranbirini Member	Pmnc	4 to 6	5
LV09-001	343.70	349.30	Cr+Gy	dololutite + laminated carbonate-mudstone	Caranbirini Member	Pmnc	3 to 6	4.5
LV09-001	349.30	351.10	Cr+Gy	dolarenite + dololutite	Reward Dolomite	Pmx	2 to 4	3
LV09-001	351.10	361.00	Cr+Gy	dololutite + laminated carbonate-carbonaceous mudstone	Reward Dolomite	Pmx	2 to 6	4
LV09-001	361.00	367.40	Cr+Gy	dololutite + laminated carbonate-mudstone	Reward Dolomite	Pmx	3 to 6	4.5
LV09-001	367.40	370.20	Cr+GnGy	dololutite	Reward Dolomite	Pmx	2 to 4	3
LV09-001	370.20	372.40	CrGy	dololutite + laminated carbonate-carbonaceous mudstone	Reward Dolomite	Pmx	4 to 9	6.5
LV09-001	372.40	387.95	CrGy	dololutite + laminated carbonate-carbonaceous mudstone	Reward Dolomite	Pmx	5 to 7	6
LV09-001	387.95	390.65	Bn	pyritic shale	Barney Creek Formation	Pmq	6 to 7	6.5
LV09-001	390.65	396.20	CrGy	dololutite intraclast breccia	Barney Creek Formation	Pmq	3 to 5	4
LV09-001	396.20	406.95	CrGy+Bn	dololutite + laminated carbonate-mudstone shale	Barney Creek Formation	Pmq	5 to 8	6.5
LV09-001	406.95	422.50	Bn+Gy	dololutite + laminated carbonate-mudstone shale	Barney Creek Formation	Pmq	6 to 8	7

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LV09-001	422.50	434.50	Bn+Gy	laminated carbonate-mudstone shale	Barney Creek Formation	Pmq	5 to 8	5.5
LV09-001	434.50	444.70	Bn+Gy	dololutite + laminated carbonate-mudstone shale	Barney Creek Formation	Pmq	5 to 9	7
LV09-001	444.70	448.00	Bn+Gy	dololutite + laminated carbonate-mudstone shale	Barney Creek Formation	Pmq	5 to 10	7.5
LV09-001	448.00	450.05	Bn	pyritic laminated carbonate-mudstone shale	Barney Creek Formation	Pmq	4 to 7	5.5
LV09-001	450.05	455.25	GyBn+Bn	pyritic laminated carbonate-mudstone shale	Barney Creek Formation	Pmq	7 to 10	8.5
LV09-001	455.25	462.85	CrGy+Bn	dololutite + laminated pyritic carbonate- mudstone shale	Barney Creek Formation	Pmq	6 to 12	9
LV09-001	462.85	466.05	CrGy+Bn	dololutite + minor laminated pyritic carbonate-mudstone shale	Barney Creek Formation	Pmq	8 to 10	9
LV09-001	466.05	468.50	Bn	pyritic laminated carbonate-mudstone shale	Barney Creek Formation	Pmq	6 to 10	8
LV09-001	468.50	472.25	CrGy+Bn	dololutite + laminated pyritic carbonate- mudstone shale	Barney Creek Formation	Pmq	6 to 10	8
LV09-001	472.25	489.00	Bn	sulfide-rich laminated carbonate-mudstone shale	Barney Creek Formation	Pmq	3 to 9	6
LV09-001	489.00	495.50	GyCr+Bn	calcitic dololutite + laminated pyritic carbonate-mudstone shale	Barney Creek Formation	Pmq	7 to 12	9.5
LV09-001	495.50	510.20	Bn+CrBn	dololutite + laminated pyritic carbonate-mudstone shale	Barney Creek Formation	Pmq	6 to 10	8
LV09-001	510.20	513.50	GyBn	dololutite	Barney Creek Formation	Pmq	6 to 9	7.5
LV09-001	513.50	517.00	GyBn	dololutite + laminated pyritic carbonate- mudstone shale	Barney Creek Formation	Pmq	4 to 9	6.5
LV09-001	517.00	520.05	GyBn	intraclastic brecciated dololutite + laminated pyritic carbonate-mudstone shale	?Cooley Dolomite Member	Pmq(c)	6 to 9	7.5
LV09-001	520.05	528.40	GyBn	intraclastic brecciated dololutite + laminated pyritic carbonate-mudstone shale	?Cooley Dolomite Member	Pmq(c)	6 to 9	7.5
LV09-001	528.40	533.10	Bn+Gy	intraclastic brecciated dololutite + laminated pyritic carbonate-mudstone shale	?Cooley Dolomite Member	Pmq(c)	7 to 9	8
LV09-001	533.10	540.00	CrBn	intraclastic brecciated dololutite with less laminated carbonate-mudstone shale	?Cooley Dolomite Member	Pmq(c)	6 to 9	7.5
LV09-001	540.00	551.65	Cr+Gy	pyritic intraclastic brecciated dololutite with minor laminated carbonate-mudstone shale	?Cooley Dolomite Member	Pmq(c)	7 to 9	8
LV09-001	551.65	552.60	Gy	pyritic intraclastic brecciated dololutite with minor laminated carbonate-mudstone shale	?Cooley Dolomite Member	Pmq(c)	6 to 8	7
LV09-001	552.60	559.45	Gy+Cr+Bn	dolarenite + dololutite	Teena Dolomite	Pmp	6 to 8	7
LV09-001	559.45	564.25	Gy+Bn	dolarenite + dololutite	Teena Dolomite	Pmp	6 to 10	8
LV09-001	564.25	566.40	Gy+Bn	dolarenite + dololutite	Teena Dolomite	Pmp	3 to 7	5
LV09-001	566.40	569.20	Gy+Bn	dolarenite + dolorudite	Teena Dolomite	Pmp	4 to 7	5.5

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LV09-001	569.20	574.50	CrGy+Bn	dolarenite + dololutite with bitumen in vugs	Teena Dolomite	Pmp	6 to 9	7.5
LV09-001	574.50	579.40	Gy+Bn	dolarenite + dololutite + laminated carbonate-mudstone shale	Teena Dolomite	Pmp	6 to 9	7.5
LV09-001	579.40	583.45	GyBn	silty dololutite	Mitchell Yard Dolomite Member	Pmei	7 to 11	9
LV09-001	583.45	590.45	GyBn	silty calcitic dololutite	Mitchell Yard Dolomite Member	Pmei	6 to 9	7.5
LV09-001	590.45	592.90	GyBn	silty calcitic dololutite	Mitchell Yard Dolomite Member	Pmei	7 to 8	7.5
LV09-001	592.90	606.20	GyBn	dololutite + dolarenite + dolorudite	Mara Dolomite Member	Pmea	3 to 8	5.5