

Client: RIDER HUNT TEROTECH Date started: 31.5.2006

Borehole No.

Project No:

Sheet

BH6

CH1613/1

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Principal: Date completed: **31.5.2006**

Irill	mode	l & m	ount	ing:P120 T	RUCK			Eas	sting: 5	533262.034 slope:	-90°		R.L	. Surface: 1.75
ole	diam	eter:						Nor	thing: 6	6744033.133 bearing	j :		datı	um: AHD
dri	illing	info	orma	ation				ma	terial	substance				
method	5 penetration	support	water	notes samples, tests, etc	well details	RL	depth metres	graphic log	classification symbol	material soil type: plasticity or particle colour, secondary and minor	characteristics, components.	condition	consistency/ density index	structure and additional observations
n		M		SPT R,-,- N*=R		7	9			SAND: fine to medium grained, but	rown (continued)	W	VD	SPT 31 blows for 125mm penetration.
				SPT R,-,- N*=R		8	1 <u>0</u>			Colour change to brown at approx	imately 10.5m.			SPT 32 blows for 150mm penetration.
				SPT 26,R,- N*=R		10 11	1 <u>2</u>							SPT 26 blows for 150mm penetration.
				SPT 25,R,- N*=R		12	1 <u>3</u>							SPT 25 blows for 85mm penetration.
				SPT 28,R,- N*=R	0 0	13 14	1 <u>5</u>							SPT 28 blows for 150mm penetration.
S D R ' T T	hod	ai w ca di bl V Ti Ti by su	uger of bler/triashbot ashbot to iatube lank bit C bit ubex	ore pool	on o	ng tion 4 no r rang refu	N nil resistance ging to isal vater leve	l l	notes, s U ₅₀ D N N* Nc P Bs R E PID WS PZ ALT	amples, tests undisturbed sample 50mm diameter disturbed sample standard penetration test (SPT) SPT - sample recovered SPT with solid cone pressure meter bulk sample refusal environmental sample PID measurement water sample piezometer air lift test	classification symbol soil description based on unified classi system moisture D dry M moist W wet Wp plastic limit W _L liquid limit			consistency/density index VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense



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31.5.2006 Principal: Date completed:

PROPOSED DEVELOPMENT - BLUE DOLPHIN RESORT **ELC** Project: Logged by:

rill model	& m	ounti	ng:P120 TI	RUCK			Eas	sting: 5	533262.034 slope:	-90°		R.L	Surface: 1.75
ole diame	eter:						Nor	thing: 6	6744033.133 bearin	g:			um: AHD
drilling		rma	ition						substance				
1 penetration	support	water	notes samples, tests, etc	well details	RL	depth metres	graphic log	classification symbol	material soil type: plasticity or particle colour, secondary and mino	characteristics, r components.	moisture condition	consistency/ density index	structure and additional observations
	M		SPT 23,R,- N*=R / SPT 21,R,- N*=R / SPT 18,32,R / N*=R /		15	17 18 19			SAND: fine to medium grained, b	orown (continued)	W	VD	SPT 30 blows for 125mm penetration. SPT 30 blows for 125mm penetration. SPT 32 blows for 150mm penetration.
		_	SPT 18,34,R N*=R SPT 6,10,13 N*=23		19 20	21						MD	SPT 34 blows for 150mm penetration.
bthod	ro wa ca dia bla V		re ool		ng 4 no r rang refu	23 24 N nil resistance ging to sal	ıl	notes, s U _{so} D N N* Nc P Bs R E PID	amples, tests undisturbed sample 50mm diameter disturbed sample standard penetration test (SPT) SPT - sample recovered SPT with solid cone pressure meter bulk sample refusal environmental sample PID measurement	classification sy soil description based on unified system moisture D dry M moist W wet Wp plastic limit	classificatio		consistency/density index VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose



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Principal: Date completed: **31.5.2006**

orehol	le Lo	ocatio	n: REF	ER TO	FI	GURE	≣ 1			C	hecked	by:		
			ing:P120 T	RUCK					533262.034 slope:	-90°		R.L.	Surface:	1.75
ole diam drilling			ation						6744033.133 bearing	g:		datu	m:	AHD
12 penetration	·		notes samples, tests, etc	well details	RL	depth metres	graphic log	classification symbol	material soil type: plasticity or particle colour, secondary and mino	characteristics, r components.	moisture condition	consistency/ density index		tructure and onal observations
	N	1	SPT 5,8,9 N*=17		23	- - 2 <u>5</u> -			SAND: fine to medium grained, b		W	MD		
					24 25	2 <u>6</u> - - - - 2 <u>7</u>			investigation. Borehole terminated at 25.45m	required				
					26	- 2 <u>8</u> - - -								
					28	2 <u>9</u> - - - 3 <u>0</u>								
					29	- 3 <u>1</u> - - -								
nethod S D R / / T T BX bit shown g.	a r c d k N T T n by s	auger of coller/trivashbot cable to cliatube collank bot to the collan	ore	→ on → war	ation 4 no ran refu		el	notes, s U ₅₀ D N N* Nc P Bs R E PID WS PZ ALT	tamples, tests undisturbed sample 50mm diameter disturbed sample standard penetration test (SPT) SPT - sample recovered SPT with solid cone pressure meter bulk sample refusal environmental sample PID measurement water sample piezometer air lift test	classification sym soil description based on unified cl system moisture D dry M moist W wet Wp plastic limit W _L liquid limit			consister VS S F St VSt H Fb VL L MD D VD	cy/density index very soft soft firm stiff very stiff hard friable very loose loose medium dense dense very dense



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Principal: Date completed: **30.5.2006**

					n: REF) FI	GURI					Checked	l by:		
				untir	ng:P120 TI	RUCK				•	533049.973 slope:	-90°			. Surface: 1.56	
_	e diam				4ian						6744153.418 bearing:			dat	um: AHD	
ar	illing	_	TOI	rma	tion				ma		substance		1		T	
method	5 penetration		support	water	notes samples, tests, etc	well details	RL	depth metres	graphic log	classification symbol	material soil type: plasticity or particle c	characteristics, components.	moisture condition	consistency/ density index	structure and additional observations	
ADV		I	N							SP	SAND: fine to coarse grained, dark	k brown	М	L/MD?	ALLUVIAL SOIL	
WB AD			. · · · · · · · · · · · · · · · · · · ·		D D SPT 3,4,7 N*=11 D D SPT 8,14,16 N*=30 D SPT 9,14,25 N*=39 SPT 25,R,- N*=R			1			Colour change to pale grey/pale brown, becosand.	own at 0.8m.	w	MD/D D/VD	SPT 24 blows fro 60mm penetration. SPT 30 blows for 120mm penetration.	
AS AD RR W CT DT B V T	thod (aug rolle was cab diat blan V b TC	ger dr er/tric shbor ble too tube nk bit it bit pex	re ol	▼ on	ration 4 no ran		•	notes, s U ₅₀ D N N* Nc P Bs R E PID WS	amples, tests undisturbed sample 50mm diameter disturbed sample standard penetration test (SPT) SPT - sample recovered SPT with solid cone pressure meter bulk sample refusal environmental sample PID measurement water sample	classification sy soil description based on unified system moisture D dry M moist W wet Wp plastic limit W _L liquid limit	classification		consistency/density index VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense	



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Principal: Date completed: **30.5.2006**

Boreho	ole L	ocati	on: <i>REF</i>	ER TO	FIC	GURE	Ξ1			(Checked	by:	
drill mod	del &	moun	ting:P120 T	RUCK			Eas	sting: 5	533049.973 slope:	-90°		R.L	. Surface: 1.56
hole dia	amete	r:					Nor	thing: 6	6744153.418 bearin	g:		dat	um: AHD
drillin	ng in	form	ation				ma	terial	substance				
9 1	s penetration	support	notes samples, tests, etc	well details	RL	depth metres	graphic log	classification symbol	material soil type: plasticity or particle colour, secondary and mino	characteristics,	moisture condition	consistency/ density index	structure and additional observations
MM MB		M. T.	SPT 16,R,- N*=R SPT R,-,- N*=R SPT R,-,- N*=R			9 - 10 - 11 - 12 - 14 - 15		SP	SAND: fine to coarse grained, da (continued) Thin layer of fine grained gravel a 8.5m.		W	VD	SPT 30 blows for 110mm penetration. SPT 30 blows for 110mm penetration. SPT 30 blows for 115mm penetration. SPT 30 blows for 120mm penetration.
method AS AD RR W CT DT B V T TBX		auger	tool e bit		ng 4 no r rang refu	vater leve	il ·	notes, s U ₅₀ D N N* NC P Bs R E	amples, tests undisturbed sample 50mm diameter disturbed sample standard penetration test (SPT) SPT - sample recovered SPT with solid cone pressure meter bulk sample refusal environmental sample PID measurement	classification sy soil description based on unified system moisture D dry M moist W wet Wp plastic limit W, liquid limit	classificatio		consistency/density index VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense



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Principal: Date completed: **30.5.2006**

			on: REF		FIG	URE	1			Chec	ked	by:	
			ing:P120 T	RUCK			Eas	sting: 5	533049.973 slope:	-90°		R.L	. Surface: 1.56
nole diam drilling			ation						3744153.418 bearing substance	<u>:</u>		dati	um: AHD
method 1	toda		notes samples, tests, etc	well details	RL i	depth metres	graphic log	classification symbol	material soil type: plasticity or particle colour, secondary and minor	characteristics, components.	condition	consistency/ density index	structure and additional observations
WB	N	1	SPT 17,R,- N*≡R		15	17		SP	SAND: fine to coarse grained, dar (continued)	k brown	W	VD	SPT 30 blows for 125mm penetration.
			SPT 17,28,R N*=R		16 17	18							SPT 28 blows for 150mm penetration
			SPT 12,26,R N*=R		18	19			Colour change to brown, no longer approximately 18.8m.	r indurated at			SPT 26 blows for 150mm penetration.
			SPT 13,30,R N*=R		19 20	21					_	D	SPT 30 blows for 150mm penetration.
			SPT 12,23,30 N*=53		21	22							SPT 30 blows for 140mm penetration.
			SPT 11,21,29 N*=50	0 0	22	24						_	SPT 29 blows for 150mm penetration.
nethod S S D R R V T D T S S S S D D S S S D D S R N D S S S S S S S S S S S S S S S S S S	1 0 1 1 1 1 1 1 1 1	auger or oller/tr washbocable to diatube olank bot olank bot of the control of th	ore ool	on o	ng 4 no re rangi refus	N nil esistance ing to sal ater level	1	notes, s U ₅₀ D N N* NC P BS R E PID WS PZ ALT	amples, tests undisturbed sample 50mm diameter disturbed sample 50mm diameter disturbed sample standard penetration test (SPT) SPT - sample recovered SPT with solid cone pressure meter bulk sample refusal environmental sample PID measurement water sample piezometer air lift test	classification symbol soil description based on unified classi system moisture D dry M moist W wet Wp plastic limit W_L liquid limit			consistency/density index VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense



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	ER TO FIGUR				Checked		
Il model & mounting:P120	KUCK		J	533049.973 slope:	-90° 	R.L. Surface	
le diameter: rilling information				3744153.418 bearing substance	<u>:</u>	datum:	AHD
notes samples tests, et	well depth	aphic log	classification symbol	material soil type: plasticity or particle colour, secondary and minor	characteristics, components.	consistency/ density index	structure and dditional observations
SPT 10,17,1 N*=36 SPT 3,5,11 N*=16 SPT 7,12,13 N*=25 SPT 11,23,2 N*=49	0 0 0 223 0 0 0 224 0 0 0 224 0 0 0 225 0 0 0 225 0 0 0 226 0 0 0 226 0 0 0 227 0 0 0 228 0 0 0 228 0 0 0 228 0 0 0 228 0 0 0 31		SP	SAND: fine to coarse grained, dat (continued) Colour change to pale brown at 24 SAND: fine to medium grained,	k brown W	MD D	
ethod auger screwing* auger drilling* roller/tricone washbore cable tool diatube blank bit V bit TC bit	support C casing N penetration 1 2 3 4 ranging to refusal water 10/1/98 water le	nil	notes, s U ₅₀ D N N* Nc P Bs R E PIID	amples, tests undisturbed sample 50mm diameter disturbed sample 50mm diameter disturbed sample standard penetration test (SPT) SPT - sample recovered SPT with solid cone pressure meter bulk sample refusal environmental sample PID measurement	classification symbols an soil description based on unified classificati system moisture D dry M moist W wet Wp plastic limit	VS	very soft soft firm stiff very stiff hard friable very loose loose



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Principal: Date completed: **30.5.2006**

drill r	model	& n	nount	ing:P120 T	RUCK			Eas	sting: 5	533049.973 slope:	-90°		R.L	Surface: 1.56
nole	diame	eter:						Nor	thing: 6	6744153.418 bearin	g:		dati	um: AHD
dri		inf	orm	ation				ma	terial	substance				
method	5 penetration	support	water	notes samples, tests, etc	well details	RL	depth metres	graphic log	classification symbol	material soil type: plasticity or particle colour, secondary and mino	e characteristics, or components.	moisture condition	consistency/ density index	structure and additional observations
WB		М		SPT 16,R,- N*=R		Q31	- - 3 <u>3</u>		SP	SAND: fine to medium grained, g (continued)	grey, trace of fines	W	MD	SPT 30 blows for 130mm penetration.
				SPT 8,10,6 N*=16		32	3 <u>4</u> -		SP	SAND: fine to medium grained, g medium plasticity fines	grey, some		MD	
				SPT 11,16,32 N*=48		-34	3 <u>5</u> - - 3 <u>6</u> -						D	SPT 32 blows for 150mm penetration.
				SPT 7,5,9 N*=14		35	3 <u>7</u> 3 <u>8</u> -						MD	
				SPT 0,1,5 N*=6			3 <u>9</u>		SC	Sandy CLAY/Clayey SAND: san grained, clay is medium plasticity.	d is fine to medium , grey		L/F	
meth AS AD RR W CT DT B V T TBX		a w c d b T T by si	oller/ti vashboable to liatube lank boable bit C bit ubex	ore	→ on → wa	ation 4 no rar ref	resistance nging to usal water lev shown	il e	notes, s U ₅₀ D N N* Nc P Bs R E PID WS PZ ALT	amples, tests undisturbed sample 50mm diameter disturbed sample standard penetration test (SPT) SPT - sample recovered SPT with solid cone pressure meter bulk sample refusal environmental sample PID measurement water sample piezometer	classification symt soil description based on unified cla system moisture D dry M moist W wet Wp plastic limit W_L liquid limit			consistency/density index VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense



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Principal: Date completed: **30.5.2006**

drill ı	model	& n	nount	ing:P120 T	RUCK			Eas	sting: 5	533049.973 slope:	-90°		R.L.	Surface: 1.56
nole	diame	eter:						Nor	thing: 6	6744153.418 bearing	g:		datu	ım: AHD
dri	lling	info	orma	ation				ma	terial	substance				
method	5 penetration	support	water	notes samples, tests, etc	well details	RL	depth metres	graphic log	classification symbol	material soil type: plasticity or particle colour, secondary and mino	characteristics, r components.	moisture condition	consistency/ density index	structure and additional observations
WB		M			0 0 0 0 0 0 0 0 0	_ -39	- - -		SC	Sandy CLAY/Clayey SAND: sand grained, clay is medium plasticity,	d is fine to medium grey <i>(continued)</i>	W	L/F	
				SPT 4,6,10 N*=16		-40	41		СН	CLAY: high plasticity, grey, some	e fine grained sand	M	St	
				SPT 5,9,9 N*=18	0 0 0 0 0	43	- - - 4 <u>5</u> -			End BH7 at 44.95m due to limit of investigation. Borehole terminated at 44.95m	f required		VSt	
						44	4 <u>6</u> - -							
						46	4 <u>7</u> - - - - 48							
meth AS AD RR W CT DT B V T TBX		a w c d b T T by su	uger of bler/trashbot able to iatube lank but bit C bit ubex	ool e	→ on	ration 4 no rar ref 0/1/98	N n resistance reging to usal water lev shown	e e vel	notes, s U ₅₀ D N N* Nc P Bs R E PID WS PZ	amples, tests undisturbed sample 50mm diameter disturbed sample standard penetration test (SPT) SPT - sample recovered SPT with solid cone pressure meter bulk sample refusal environmental sample PID measurement water sample piezometer	classification sym soil description based on unified cl system moisture D dry M moist W wet Wp plastic limit W_L liquid limit			consistency/density index VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense



Client: RIDER HUNT TEROTECH Date started: 1.6.2006

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Principal: Date completed: 1.6.2006

3or	ehole	e Lo	catio	on: REF	ER TO	FIGU	URE	1				Checked		
drill	mode	el & m	ount	ing:P120 T	RUCK			East	ting: 5	33143.425 slope:	-90°		R.L	. Surface: 1.61
nole	diam	eter:						Nort	thing: 6	744273.849 bearing	j :		datı	um: AHD
dri	illing	j info	orma	ation				ma	terial	substance				
method	2 penetration	support	water	notes samples, tests, etc	well details	d RL m	lepth letres	graphic log	classification symbol	material soil type: plasticity or particle colour, secondary and mino	characteristics,	moisture condition	consistency/ density index	structure and additional observations
ADV		N					- -		SP	SAND: fine to medium grained, b	rown	М	MD?	ALLUVIAL SOIL
				D D		_1	1		SC	Clayey SAND/Sandy CLAY:fine grained, brown, clay is medium pl	asticity	-		
			-	SPT 7,9,9		_0	_		SP	SAND: fine to medium grained, g	rey	W	D	
				7,9,9 N*=18			2							
				D		1							MD	
				D SPT 1,3,6 N*=9			3							
		М				2	4						D	
1				D SPT 5,9,10		3	- - -							
				N*=19			<u>5</u>			Colour change to dark brown at 4.	8m.		VD	
				SPT 22,R,- N*=R		4								SPT 30 blows fro 40mm penetration.
							<u> </u>							
				SPT		5	7							SPT 30 blows for 150mm
				18,30,R N*=R		6	1							penetration.
iet	hod		iner s	crewing*	support C casir		8 N nil		notes, s	amples, tests undisturbed sample 50mm diameter	classification s		ı	consistency/density index VS very soft
D R '		a ro w ca	uger o ller/tr ashbo able to	drilling* icone ore ool	penetra	tion 4 no resis	istance g to		D N N* Nc	disturbed sample standard penetration test (SPT) SPT - sample recovered SPT with solid cone pressure meter	based on unified system moisture		on	S soft F firm St stiff VSt very stiff
T 3X		b V T	atube ank b bit C bit ubex			refusal 1/98 wate date show	er level		Bs R E PID WS	pressure meter bulk sample refusal environmental sample PID measurement water sample	D dry M moist W wet Wp plastic lim W ₁ liquid limi			H hard Fb friable VL very loose L loose MD medium dense
	shown	by su				er inflow er outflov		- 1	WS PZ ALT	water sample piezometer air lift test				D dense VD very dense



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3	for	water	notes samples, tests, etc SPT R,-,- N*=R	well details 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RL	depth metres	ma sabhic log		substance material soil type: plasticity or particle colour, secondary and mind SAND: fine to medium grained, s	e characteristics, or components.	Moisture condition	consistency/ density index	structure and additional observations SPT 25 blows for 80mm penetration.
g in	toddns	water	notes samples, tests, etc SPT R, N*=R	details 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-7 -6 -1 -8	metres	ma sabhic log	classification symbol	material soil type: plasticity or particle colour, secondary and mind	e characteristics, or components.		consistency/ density index	structure and additional observations
3		water	SPT R,-;-N'=R	details 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-7 -6 -1 -8	metres	graphic log		soil type: plasticity or particle colour, secondary and mind	or components.			additional observations SPT 25 blows for 80mm
	М		R,-,- N*=R SPT 18,26,R			-		SP	SAND: fine to medium grained, s	grey (continued)	W	VD	
			R,-,- N*=R SPT 18,26,R			-							
			18,26,R		¢	- 1 <u>0</u> -							
				0 0 0	-9			-					SPT 26 blows for 150mm penetration.
		- 1		0 0		- 1 <u>1</u> -			Thin band of fine grained gravel a 10.5m.	at approximately			
			SPT R,-,- N*=R	0 0 0 0 0 0 0 0	10	- 1 <u>2</u> - -							SPT 30 blows for 110mm penetration.
			SPT R,-,- N*=R	0 0 0 0 0 0 0 0 0 0		1 <u>3</u> - - -							SPT 30 blows for 130mm penetraation.
			SPT R,-,- N*=R	0 0 0	13	1 <u>4</u> - - - 1 <u>5</u>							SPT 30 blows for 90mm penetration.
				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14	- - - 16		notes.s	amples, tests	classification sym	bols and	1	consistency/density index
	auge rolle was cabl diatu blan V bit TC b	er dril er/trico shbore le tool ube nk bit it bit	Iling* one e	penetr 1 2 3 water	ation 4 no rar ref	resistance nging to usal water leve)	U ₅₀ D N	undisturbed sample 50mm diameter disturbed sample standard penetration test (SPT) SPT - sample recovered SPT with solid cone pressure meter bulk sample refusal environmental sample	soil description based on unified cla system moisture D dry M moist W wet Wp plastic limit			VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense
	by	aug rolle was cab diat blar V bi TC Tub	auger dri roller/trice washbore cable too diatube blank bit V bit TC bit Tubex by suffix	auger screwing* auger drilling* roller/tricone washbore cable tool diatube blank bit V bit TC bit Tubex	SPT R, N*=R 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	auger screwing* auger drilling* roller/tricone washbore cable tool diatube blank bit V bit T C bit T Ubex by suffix	SPT R,-,- N*=R	auger screwing* auger drilling* roller/fricone washbore cable tool diatube blank bit V bit T C bit T Ubex by suffix	SPT R, → N*=R o o o 13 o o o 14 o o o 15 o o o 15 o o o 14 o o o o 16 support C casing N nil D notes, s C casing N nil D N N* Nc anging to refusal blank bit V bit T C bit T C bit T Ubex by suffix water Water inflow PE BS R R E PID WS PZ	auger screwing* auger drilling* roller/fricone washbore cable tool diatube blank bit V bit TC bit Tubex by suffix Tubex by suffix SPT	auger screwing* auger drilling* roller/tricone washbore cable tool diatube blank bit V bit TC bit Tubex by suffix V bit TC bit Tubex by suffix V bit water inflow V bus wa	auger screwing* auger drilling* roller/tricone washbore cable tool diatube blank bit V bit TC bit T Ubex by suffix T Ubex by suffix	auger screwing* auger drilling* roller/tricone washbore cable tool diatube blank bit V bit T C bit T Ubex by suffix