## Appendix 3-2 Miscellaneous Results of Drilling Works on Individual Drillhole

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBK-38)

		Survey period			Breakdov	n of period		tal kers	
	Per	iod	Total	days	Working days	No working days	Engineers	Workers	
Preparation	7 Aug., '02 <i>'</i>	~ 7Aug., '02	1.0	00	1.00	_	4	10	
Duilling	10 Ave '02 a	. 12 A '02	4.7	76	Drilling : 4.75	_	19	47.5	
Drilling	10 Aug., 02 -	~ 12 Aug., '02	4.,	73	Accident: 0.00	_	_	-	
Dismount	12 Aug., '02 ~	~ 12 Aug., '02	0.2	25	0.25	-	1	2.5	
Total	7 Aug., '02 ~	- 12 Aug., '02	6.0	00	6.00		- 24		
			Drillir	ng Lengt	:h				
Programmed I	ength	50.00 m	Ove	rburden,	sand & gravel,	Quarternary	8	.50 m	
Prolongation		14.00 m		Core	elength		55	.50 m	
Effective leng	th	64.00 m		Core	recovery	· · · · · · · · · · · · · · · · · · ·	1	00.0 %	
	Workin	g hours			Core r	ecovery by each	10 meter	rs	
Drilling		70.0 hrs	74.5%	53.0%	Length (m)	Each (%)	Cumu	la. (%)	
Supplemental	drilling work	24.0 hrs	25.5%	18.2%	0 - 8.50	None core	None	core	
Recovery from	n accident	_	_	_	8.5 - 10.0	100.0	100	0.0	
Subtotal		94.0 hrs	100%	71.0%	10.0 – 20.0	100.0	100	0.0	
Preparation/s	etting up	16.0 hrs	_	12.1%	20.0 – 30.0	100.0	100	0.0	
Dismount/mo	bilization	4.0 hrs	-	3.0%	30.0 - 40.0	100.0	100	0.0	
Transportation	n of water	18.0 hrs	-	13.6%		Efficiency			
Others					Effective leng	th / Working dri	illing days		
					= 64.00m/4.7	5 days = 12.63 r	n/d		
					Effective leng	th / Total drillir	ng shifts =		
Total		132.0 hrs	_	100%	= 64.00m/9.5	shifts = 6.74 m/	/shift		
		Dri	lling leng	gth by d	iameter				
Bit diameter		190mm $\phi$					То	tal	
Drilling length		64.00 m					64.	00 m	
Core length		42.50 m					42.	50 m	
			nserted	casing	pipes				
Inserted lengt	h by diameter	Inserted le	ngth / [	Prilling le	g length Casing recovery				
250mm φ	5.60 m		8.75%			100	% 		
200mm $\phi$	10.00 m		15.63%	6		100	%		

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBK-39)

		l .		Breakdown	n of period	Total workers			
	Per	riod	Tota	l days	Working days	No working	Engineers		
Preparation	1Aug., '02 ~	~ 1 Aug., '02	0.	50	0.50	days —	2	5	
					Drilling : 4.75	· <u>-</u>	17	47.5	
Drilling	2 Aug., '02 <b>^</b>	~ 6 Aug., '02	4.	75	Accident: 0.00	-	_	_	
Dismount	6 Aug., '02 -	~ 6 Aug., '02	0.5	25	0.25	<del>-</del>	1	2.5	
Total	1 Aug., '02 -	~ 6 Aug., '02	5.	50	5.50		20	55	
<del></del>			Drilli	ng Lengt	th	<u>!</u>			
Programmed I	ength	50.00 m	Ove	rburden	, sand & gravel,	Quarternary	7	.00 m	
Prolongation		-14.00 m		Core	e length		29	.00 m	
Effective leng	th	36.00 m		Core	recovery	100.0			
	Workin	ng hours	<u>.</u>		Core re	Core recovery by each 10 meters			
Drilling		36.0 hrs	54.5%	35.6%	Length (m)	Each (%)	Cumu	la. (%)	
Supplemental	drilling work	30.0 hrs	45.5%	29.7%	0 - 7.0	None core	None	core	
Recovery from	n accident	_	-	-	7.0 – 10.0	100.0	100	).0	
Subtotal		66.0 hrs	100%	65.3%	10.0 - 20.0	100.0	100	).0	
Preparation/s	etting up	16.0 hrs	-	15.8%	20.0 - 30.0	100.0	100	0.0	
Dismount/mol	oilization	6.0 hrs	-	5.9%	30.0 - 36.0	100.0	100	).0	
Transportation	n of water	13.0 hrs	_	12.9%		Efficiency			
Others					Effective lengt	h / Working dr	illing days		
					= 36.00m/4.75	days = 7.58 m	/d		
					Effective lengt	h / Total drillir	ng shifts =		
Total		101.0 hrs	-	100%	= 36.00m/ 9.5s	shifts = 3.79 m	/shift		
		Dri	lling len	gth by d	iameter				
Bit diameter		190mm $\phi$					То	tal	
Drilling length		36.00 m					36.0	00 m	
Core length		29.00 m					29.0	00 m	
			Inserted	casing	pipes				
Inserted lengt	h by diameter	Inserted le	ngth / [	Orilling le	ength	Casing re	covery		
250mm $\phi$	7.00 m		19.44%	6		100	)%		
200mm φ	9.00 m		25.00%	6		100	9%		

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBK-40)

		Survey period			Breakdow	n of period		tal kers
	Per	riod	Tota	l days	Working days	No working days	Engineers	Workers
Preparation	28 Jul., '02	~ 28 Jul., '02	0.	50	0.50	-	2	5
Drilling	20 11 '02	~ 1 Aug., '02	2	25	Drilling : 3.25		13	32.5
Drilling	29 Jul., 02 -			Accident: 0.00	<del>-</del>	_	-	
Dismount	1 Aug., '02 -	~ 1 Aug., '02	0.:	25	0.25		1	2.5
Total	28 Jul., '02 <i>•</i>	~ 1 Aug., '02	4.0	00	4.00	<del></del>	16	40
			Drillin	ng Lengt	:h			
Programmed I	ength	50.00 m	Ove	rburden,	sand & gravel,	Quarternary	7.	.00 m
Prolongation	-	14.50 m		Core	length		57.	.50 m
Effective leng	th	64.50 m		Core	recovery		10	00.0 %
	Workin	ng hours			Core re	covery by each	10 meter	rs .
Drilling		31.0 hrs	59.6%	43.1%	Length (m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	21.0 hrs	40.4%	29.2%	0 - 7.0	None core	None	core
Recovery from	n accident	-	-	-	7.0 – 10.0	100.0	100	0.0
Subtotal		52.0 hrs	100%	72.2%	10.0 - 20.0	100.0	100	0.0
Preparation/s	etting up	8.0 hrs	1	11.1%	20.0 - 30.0	100.0	100	0.0
Dismount/mol	oilization	4.0 hrs		5.6%	30.0 - 50.0	100.0	100	).0
Transportation	n of water	8.0 hrs	_	11.1%		Efficiency		
Others					Effective lengt	h / Working dri	lling days	_
					= 64.50m/3.25	days = 19.84 n	n/d	
					Effective lengt	h / Total drillin	g shifts =	
Total		72.0 hrs		100%	= 64.50m/6.5sl	nifts = 9.92 m/	shift	
		Dri	lling leng	gth by di	ameter	·		
Bit diameter		190mm $\phi$					То	tal
Drilling length		50.00 m					50.0	00 m
Core length		43.00 m				43.00		
		I	nserted	casing p	pipes			
Inserted lengt	h by diameter	Inserted le	ngth / [	Orilling le	g length Casing recovery			
250mm $\phi$	6.00 m		9.30%			100	%	
200mm $\phi$	7.00 m		10.85%	100%				

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBK-41)

·		Survey period			Breakdowr	of period	Total workers	
	Per	iod	Total	days	Working days	No working days	Engineers	
Preparation	19 Aug., '02 ~	19 Aug., '02	1.0	00	1.00	-	4	10
Duillin a	20 A '02 -	. 02 4 '00	٠,	76	Drilling : 3.75	<u> </u>	17	37.5
Drilling	20 Aug., 02 7	~ 23 Aug., '02	3.	75	Accident:		_	
Dismount	23 Aug., '02 ~	~ 23 Aug., '02	0.2	25	0.25	-	1	2.5
Total	19 Aug., '02 ~	~ 23 Aug., '02	5.0	00	5.00	-	20	50
			Drillir	ng Lengt	.h			
Programmed I	ength	50.00 m	Ove	rburden,	sand & gravel, (	Quarternary	10	.00 m
Prolongation		-10.00 m		Core	elength		30	.00 m
Effective leng	th	40.00 m		Core	recovery		11	00.0 %
	Workin	g hours			Core red	covery by each	10 meter	s
Drilling		32.0 hrs	53.3%	34.0%	Length (m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	28.0 hrs	46.7%	29.8%	0 - 11.0	None core	None	core
Recovery from	n accident	0.0 hrs	-	-	11.0 - 20.0	100.0	100	0.0
Subtotal		60.0 hrs	100%	63.8%	20.0 - 30.0	100.0	100	0.0
Preparation/s	etting up	16.0 hrs	_	17.0%	30.0 - 40.0	100.0	100	0.0
Dismount/mo	bilization	4.0 hrs	-	4.3%				
Transportatio	n of water	14.0 hrs	-	14.9%		Efficiency		
Others					Effective lengt	h / Working dr	illing days	
					= 40.00m/3.75	days = 10.67 r	m/d	
					Effective lengt	h / Total drillir	ng shifts =	
Total		94.0 hrs	_	100%	= 40.00m/7.5 s	hifts = 5.33 m/	/shift	
		Dri	lling leng	gth by d	iameter			
Bit diameter		190mm $\phi$					То	tal
Drilling length		40.00 m					40.	00 m
Core length		30.00 m					30.	00 m
		I	nserted	casing <sub> </sub>	oipes			
Inserted lengt	th by diameter	Inserted le	ngth / [	Orilling le	ength	Casing re	covery	
250mm $\phi$	7.00 m		17.50%	6		100	)%	
200mm $\phi$	10.00 m		25.00%	100%				

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBK-42)

		Survey period	i		Breakdow	n of period	i	tal kers	
	Per	riod	Tota	l days	Working days	No working days	Engineers		
Preparation	1 Aug., '02 -	~ 1 Aug., '02	0.	50	0.50	_	2	5	
Drilling	1 Aug '02 a	~ 6 Aug., '02	5	25	Drilling : 5.25	-	21	52.5	
Drining	1 Aug., 02	• 0 Aug., 02	3	20	Accident: 0.00	_	_	_	
Dismount	6 Aug., '02 -	~ 6 Aug., '02	0.:	25	0.25	_	1	2.5	
Total	1 Aug., '02 -	~ 6 Aug., '02	6.0	00	6.00		24	60	
			Drilli	ng Lengt	th				
Programmed le	ength	50.00 m	Ove	rburden	, sand & gravel,	gravel, Quarternary 10.0			
Prolongation		6.00 m		Core	elength		34.00		
Effective lengt	th	44.00 m		Core	recovery	100.0			
	Workin	g hours			Core re	covery by each	10 meter	's	
Drilling		57.0 hrs	67.9%	52.8%	Length (m)	Each (%)	%) Cumula. (		
Supplemental	drilling work	27.0 hrs	32.1%	25.0%	0 - 9.0	None core	None	core	
Recovery from	n accident	0.0 hrs			9.0 - 10.0	100.0	100	0.0	
Subtotal		84.0 hrs	100%	77.8%	10.0 – 20.0	100.0	100	).0	
Preparation/s	etting up	8.0 hrs	-	7.4%	20.0 - 30.0	100.0	100		
Dismount/mot	oilization	4.0 hrs	-	3.7%	30.0 - 44.0	100.0	100	).0	
Transportation	of water	12.0 hrs	-	11.1%		Efficiency			
Others					Effective lengt	h / Working dri	lling days		
					= 44.00m/5.25	days = 8.38 m/	/d		
					Effective lengt	h / Total drillin	g shifts =		
Total		108.0 hrs	-	100%	= 44.00m/10.5	shifts = 4.19 m	/shift		
		Dri	lling leng	th by di	ameter				
Bit diameter		190mm φ					To	tal	
Drilling length		44.00 m					44.0	00 m	
Core length	,	34.00 m					34.0	00 m	
		I	nserted	casing p	pipes				
Inserted lengtl	n by diameter	Inserted le	ngth / D	rilling le	ength	Casing red	covery		
250mm $\phi$	7.00 m		15.91%			1009	%		
200mm $\phi$	10.00 m		22.73%			1009	6		

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBK-43)

		Survey period	d		Breakdowr	of period		otal kers	
	Per	riod	Tota	l days	Working days	No working days	Engineers		
Preparation	28 Jul., '02 -	~ 28 Jul., '02	0.	50	0.50	_	2	5	
Drilling	م ۲۰۵۰ ایرا 20	~ 31 Jul., '02	,	20	Drilling : 3.38		13.5	33.75	
Drining	29 Jul., 02 °	~ 31 Jul., UZ	3.	38	Accident: 0.00	_			
Dismount	31 Jul., '02 -	~ 31 Jul., '02	0.	13	0.13	_	0.5	1.25	
Total	28 Jul., '02 -	~ 31 Jul., '02	4.0	00	4.00		12	40	
			Drilli	ng Lengt	th				
Programmed I	ength	50.00 m	Ove	rburden	, sand & gravel, (	ravel, Quarternary 10.5			
Prolongation		0.00 m		Core	e length		39	.50 m	
Effective leng	th	50.00 m		Core	recovery	100.0			
	Workin	g hours			Core red	Core recovery by each 10 meters			
Drilling		32.0 hrs	59.3%	44.4%	Length (m)	Each (%)	Cumu	la. (%)	
Supplemental	drilling work	22.0 hrs	40.7%	30.6%	0 - 10.0	None core	None	core	
Recovery from	n accident	0.0 hrs	_	-	10.0 - 20.0	100.0	100	0.0	
Subtotal		54.0 hrs	100%	75.0%	20.0 - 30.0	100.0	100	0.0	
Preparation/s	etting up	8.0 hrs	_	11.1%	30.0 - 40.0	100.0	100	0.0	
Dismount/mol	oilization	2.0 hrs	-	2.8%	40.0 - 50.0	100.0	100	0.0	
Transportation	of water	8.0 hrs	-	11.1%		Efficiency			
Others					Effective lengtl	n / Working dri	lling days		
					= 50.00m/3.375	days = 14.81	m/d		
					Effective length	n / Total drillin	g shifts =		
Total		72.0 hrs	_	100%	= 50.00m/6.75	shifts = 7.41 m	n/shift		
		Dri	lling leng	gth by di	iameter				
Bit diameter		190mm φ					То	tal	
Drilling length		50.00 m					50.0	00 m	
Core length		10.50 m					10.5	50 m	
		I	nserted	casing	oipes				
Inserted lengt	h by diameter	Inserted le	ngth / [	ngth / Drilling length Casing recove			covery		
250mm $\phi$	8.00 m		16.00%	5		100	%		
200mm $\phi$	11.60 m	23.20%				100	 0∠		

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBK-44)

		Survey period	j	<del>''''''''''</del>	Breakdow	n of period	1	otal kers
	Per	riod	Tota	l days	Working days	No working days	Engineers	
Preparation	23 Jul., '02 -	~ 23 Jul., '02	0.	50	0.50	_	2	5
Deilling	24 1.1 200	. 07 1.1 200		20	Drilling : 4.00	-	16	40
Drilling	24 Jul., UZ 1	~ 27 Jul., '02	4.	00	Accident: 0.00	_	_	-
Dismount	28 Jul., '02 -	~ 28 Jul., '02	0.	50	0.50	_	2	5
Total	23 Jul., '02 -	~ 28 Jul., '02	5.0	00	5.00		18	50
		, , , , , , , , , , , , , , , , , , , ,	Drilli	ng Lengt	th	,		
Programmed I	ength	50.00 m	Ove	rburden	, sand & gravel, (	Quarternary	7.	.00 m
Prolongation		10.00 m		Core	elength		53	.00 m
Effective length	th	60.00 m		Core	recovery	100.0		
	Workin	g hours			Core red	ore recovery by each 10 meters		
Drilling		35.0 hrs	54.7%	36.5%	Length (m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	29.0 hrs	45.3%	30.2%	0 - 7.0	None core	None	core
Recovery from	n accident	0.0 hrs	-	_	7.0 – 10.0	100.0	100	).0
Subtotal		64.0 hrs	100%	66.7%	10.0 - 20.0	100.0	100	).0
Preparation/s	etting up	8.0 hrs	_	8.3%	20.0 - 30.0 30.0 - 40.0	100.0 100.0	100 100	
Dismount/mob	oilization	8.0 hrs	_	8.3%	40.0 - 50.0 50.0 - 60.0	100.0 100.0	100 100	
Transportation	of water	16.0 hrs	_	16.7%		Efficiency		
Others					Effective lengtl	h / Working dri	lling days	
					= 60.00m/4.00	days = 15.00 m	n/d	
					Effective lengtl	h / Total drillin	g shifts =	
Total		96.0 hrs	-	100%	= 60.00m/8.0 s	hifts = 7.50 m/	shift	
		Dri	lling leng	th by di	ameter			
Bit diameter		190mm φ	· ·				To	tal
Drilling length		60.00 m	<u>-</u> .				60.0	00 m
Core length		53.00 m					53.0	00 m
		I	nserted	casing p	pipes			
Inserted length	n by diameter	Inserted le	ngth / D	rilling le	ng length Casing recovery			
250mm φ	8.00 m		13.33%			1009	6	
200mm φ	10.00 m		16.67% 100%			6		

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBK-45)

·		Survey period	l		Breakdowr	of period		tal kers	
	Per	riod	Tota	l days	Working days	No working days	Engineers	Workers	
Preparation	7 Aug., '02	~ 7 Aug., '02	1.0	00	1.00		4	10	
Drilling	9 Aug '02 a	~ 12 Aug., '02	4.3	25	Drilling : 4.25		17	42.5	
Drilling	o Aug., UZ	7 12 Aug., 02		2.5	Accident: 0.00	-		_	
Dismount	12 Aug., '02 -	~ 12 Aug., '02	0.2	25	0.25		1	2.5	
Total	7 Aug., '02 ~	12 Aug., '02	5.	50	5.50		14	55	
			Drillir	ng Lengt	:h				
Programmed I	ength	50.00 m	Ove	rburden,	sand & gravel, (	Quarternary	9	.00 m	
Prolongation		11.00 m		Core	elength		52	.00 m	
Effective leng	th	61.00 m		Core	recovery	100.0			
	Workin	g hours			Core red	covery by each	10 meter	's	
Drilling		50.0 hrs	73.5%	50.0%	Length (m)	Each (%)	Cumu	la. (%)	
Supplemental	drilling work	18.0 hrs	26.5%	18.0%	0 - 9.0	None core	None	core	
Recovery from	n accident	-	-	-	9.0 - 20.0	100.0	100	0.0	
Subtotal		68.0 hrs	100%	71.0%	20.0 - 30.0	100.0	100	0.0	
Preparation/s	etting up	16.0 hrs	-	16.0%	30.0 - 40.0	100.0	100	0.0	
Dismount/mo	bilization	4.0 hrs	-	4.0%	40.0 - 50.0	100.0	100	).0	
Transportation	n of water	12.0 hrs	-	12.0%		Efficiency			
Others					Effective lengtl	n / Working dri	lling days		
					= 43.00m/3.25	days = 13.23 n	n/ <b>d</b>		
					Effective lengtl	n / Total drillin	g shifts =		
Total		100.0 hrs	-	100%	= 43.00m/6.5 s	hifts = 6.62 m/	shift		
		Dri	lling leng	gth by di	ameter				
Bit diameter		190mm φ					То	tal	
Drilling length		61.00 m	ę				61.0	00 m	
Core length		52.00 m					52.0	00 m	
·		]	nserted	casing p	pipes				
Inserted lengt	h by diameter	Inserted le	ngth / [	Drilling length Casing recovery					
270mm φ	5.60 m		9.18%			100	%		
200mm $\phi$	10.00 m		16.39% 100%						

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBK-46)

		Survey period			Breakdow	n of period		tal kers	
	Per	iod	Total	days	Working days	No working days	Engineers	Workers	
Preparation	23 Jul., '02 ^	~ 23 Jul., '02	0.9	50	0.50		2	5	
Drilling	24 1 '02	~ 27 Jul., '02	3.	75	Drilling : 3.75	<del>-</del>	12	37.5	
Drilling	24 Jul., U2	~ 27 Jul., UZ	3.	73	Accident: 0.00	<b>–</b>		_	
Dismount	27 Jul., '02 -	~ 27 Jul., '02	0.2	25	0.25	_	1	2.5	
Total	23 Jul., '02 -	~ 27 Jul., '02	4.	50	4.50	_	15	45	
			Drillin	ng Lengt	:h				
Programmed I	ength	50.00 m	Ove	rburden,	, sand & gravel,	Quarternary	8	.00 m	
Prolongation		-22.00 m		Core	elength		20	.00 m	
Effective leng	th	28.00 m		Core	recovery	100.0			
	Workin	g hours			Core re	Core recovery by each 10 meters			
Drilling		26.0 hrs	43.3%	32.5%	Length (m)	Each (%)	Cumu	la. (%)	
Supplemental	drilling work	34.0 hrs	56.7%	42.5%	0 - 9.0	None core	None	core	
Recovery from	n accident	<u>–</u>	-	-	9.0 - 10.0	100.0	100	0.0	
Subtotal		60.0 hrs	100%	69.7%	10.0 - 20.0	100.0	100	0.0	
Preparation/s	etting up	4.0 hrs	_	5.0%	20.0 - 30.0	100.0	100	0.0	
Dismount/mol	bilization	8.0 hrs	-	10.0%	30.0 - 40.0 40.0 - 50.0	100.0 100.0	100		
Transportation	n of water	8.0 hrs	-	10.0%		Efficiency			
Others					Effective lengt	h / Working dri	illing days		
					= 28.00m/3.75	days = 7.47 m.	/d		
					Effective lengt	h / Total drillin	ng shifts =		
Total		80.0 hrs	-	100%	= 28.00m/7.5 s	shifts = 3.73 m/	/shift		
		Dri	lling leng	gth by di	iameter				
Bit diameter		190mm $\phi$					То	tal	
Drilling length		28.00 m					28.0	00 m	
Core length		20.00 m					20.0	00 m	
			nserted	casing p	pipes				
Inserted lengt	h by diameter	Inserted le	ngth / [	Orilling le	ling length Casing recovery				
250mm $\phi$	8.00 m		28.57% 100%						
200mm $\phi$	10.00 m		35.71%	<b>6</b>		100	%		
	-								

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBK-47)

		Survey period		· · · · · · · · · · · · · · · · · · ·	Breakdowr	kdown of period		Total workers	
	Per	iod	Tota	l days	Working days	No working days	Engineers	f	
Preparation	16 Jul., '02 ^	~ 16 Jul, '02	0.	50	0.50		2	5	
Delline	17 1.1 '00 -	. 00 1.1 200	6	n=	Drilling : 4.25		16.5	42.5	
Drilling	17 Jul., UZ 7	~ 23 Jul., '02	6.25		Accident: 2.00		5	20	
Dismount	23 Jul., '02 -	~ 23 Jul., '02	0.:	25	0.25		1	2.5	
Total	16 Jul., '02 ^	~ 23 Jul., '02	7.0	00	7.00	-	24.5	70	
			Drillin	ng Lengt	th				
Programmed I	ength	50.00 m	Ove	rburden,	, sand & gravel, (	Quarternary	8	.00 m	
Prolongation		−14.00 m		Core	elength		28	.00 m	
Effective leng	th	36.00 m		Core	recovery	100.0			
	Workin	g hours			Core red	covery by each	10 meter	s	
Drilling		20.0 hrs	20.0%	16.4%	Length (m)	Each (%)	Cumula. (%		
Supplemental	drilling work	48.0 hrs	34.3%	39.3%	0 - 9.0	None core	None	core	
Recovery from	n accident	32.0 hrs	32.0%	26.2%	9.0 - 10.0	100.0	100	0.0	
Subtotal		100.0 hrs	100%	82.0%	10.0 - 200	100.0	100	0.0	
Preparation/s	etting up	4.0 hrs	-	3.3%	20.0 - 30.0	100.0	100	0.0	
Dismount/mol	oilization	8.0 hrs	_	6.6%	30.0 - 360	100.0	100	).0	
Transportation	of water	10.0 hrs	-	8.2%	_	Efficiency			
Others					Effective lengtl	h / Working dri	lling days		
					= 36.00m/4.25	days = 8.47 m.	/d		
					Effective lengtl	h / Total drillin	g shifts =		
Total		122.0 hrs	-	100%	= 36.00m/8.5 s	hifts = 4.24 m/	/shift		
		Dri	lling leng	gth by di	iameter				
Bit diameter		190mm $\phi$					То	tal	
Drilling length		36.00 m					36.0	00 m	
Core length	·	28.00 m					28.0	00 m	
		I	nserted	casing p	oipes				
Inserted lengt	nserted length by diameter Inserted length				ength	Casing re	covery		
250mm φ	5.00 m		13.89%	<b>ó</b>		days = 8.47 m/d  th / Total drilling shifts = shifts = 4.24 m/shift  Total 36.00 m 28.00 m  Casing recovery			
200mm $\phi$	10.00 m		27.78% 100%			%			

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBK-48)

		Survey period			Breakdowr	of period		tal kers
	Per	iod	Total	l days	Working days	No working days	Engineers	I
Preparation	12 Jul., '02	~ 12 Jul., '02	0.	50	0.50	_	2	5
D :111	10 1 1 200	10 1 1 100		n.e.	Drilling : 3.25		12	32.5
Drilling	13 Jul., '02 ^	→ 16 Jul., '02	3.25		Accident: 0.00	-	0	0
Dismount	16 Jul., '02 -	~ 16 Jul., '02	0.2	25	0.25	_	1	2.5
Total	12 Jul., '02 -	~ 16 Jul., '02	4.0	00	4.00	_	15	40
			Drillin	ng Lengt	:h			
Programmed	ength	50.00 m	Ove	rburden,	sand & gravel, (	Quarternary	8	.00 m
Prolongation		1.00 m		Core	elength		43	.00 m
Effective leng	th	51.00 m		Core	recovery		11	00.0 %
	Workin	g hours			Core red	covery by each	10 meter	rs
Drilling		33.0 hrs	62.3%	43.4%	Length (m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	20.0 hrs	37.7%	26.3%	0 - 8.0	None core	None	core
Recovery from	n accident	0.0 hrs	-	-	8.0 - 10.0	100.0	100	0.0
Subtotal		53.0 hrs	100%	69.7%	10.0 - 20.0	100.0	100	0.0
Preparation/s	etting up	4.0 hrs	-	5.3%	20.0 - 30.0 30.0 - 40.0	100.0 100.0	100 100	
Dismount/mo	bilization	7.0 hrs	-	9.2%	40.0 - 50.0 50.0 - 54.0	100.0 100.0	100 100	
Transportatio	n of water	12.0 hrs	-	15.8%		Efficiency		
Others					Effective lengt	h / Working dri	lling days	
					= 51.00m/3.25	days = 15.69 n	n/d	
					Effective lengt	h / Total drillin	g shifts =	
Total		76.0 hrs	-	100%	= 51.00m/6.5sl	nifts = 7.85 m/	shift	
		Dri	lling leng	gth by d	ameter			
Bit diameter		190mm <b>ø</b>					То	tal
Drilling length		51.00 m					51.0	00 m
Core length		43.00 m					43.0	00 m
		· I	nserted	casing (	pipes			
Inserted lengt	h by diameter	Inserted le	ngth / [	Orilling le	ength	Casing re	covery	
250mm <i>ϕ</i>	6.00 m		11.76%	6		100	%	
200mm φ	10.00 m		19.61% 100%				%	

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBK-49)

		Survey period			Breakdowr	of period	1	tal kers	
	Per	iod	Total	days	Working days	No working days	Engineers	Workers	
Preparation	4 Jul., '02 ^	~ 5 Jul., '02	2.0	00	2.00	_	6	20	
Drilling	6. Jul. '02 ~	• 12 Jul., '02	6.2	25	Drilling : 6.25	_	23.5	62.5	
Drining	0 0ui., 02	12 Jul., 02	0.4	25	Accident: 0.00	_	_	-	
Dismount	12 Jul., '02 <i>•</i>	~ 12Jul., '02	0.2	25	0.25	_	1	2.5	
Total	4 Jul., '02 ~	12 Jul., '02	8.9	50	8.50	<del>-</del>	30.5	85	
			Drillin	ng Lengt	th				
Programmed I	ength	50.00 m	Ove	rburden,	, sand & gravel,	Quarternary	8	.00 m	
Prolongation		4.00 m		Core	elength		44	.10 m	
Effective leng	th	54.00 m		Core	recovery	y 100			
	Workin	g hours			Core re	covery by each	10 meter	rs .	
Drilling		32.0 hrs	51.6%	36.4%	Length (m)	Each (%)	Cumula. (%		
Supplemental	drilling work	19.0 hrs	30.7%	21.6%	0 - 7.5	None core	None	core	
Recovery from	n accident	11.0 hrs	17.7%	12.5%	7.5 - 10.0	100.0	100	0.0	
Subtotal		62.0 hrs	100%	70.5%	10.0 - 20.0	99.5	99	.5	
Preparation/s	etting up	4.0 hrs	_	4.5%	20.0 - 30.0 30.0 - 40.0	98.3 100.0	98 100		
Dismount/mo	bilization	6.0 hrs	-	6.8%	40.0 - 50.0 50.0 - 54.0	100.0 99.8	100 99		
Transportation	n of water	16.0 hrs	-	18.2%		Efficiency			
Others					Effective lengt	h / Working dri	illing days		
					= 54.00m/6.25	days = 8.64 m	/d		
					Effective lengt	h / Total drillin	ng shifts =		
Total		88.0 hrs	-	100%	= 54.00m/12.50	0 shifts = 4.2 m	n/shift		
		Dri	lling leng	gth by d	ameter				
Bit diameter		190mm $\phi$				,	То	tal	
Drilling length		54.00 m					54.0	00 m	
Core length		44.10 m					44.	10 m	
		I	nserted	casing	pipes				
Inserted lengt	ngth by diameter					covery			
250mm $\phi$	7.00 m		12.96%	6	100%				
200mm $\phi$	10.00 m		18.52%	ó		100	%		

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBK-50)

		Survey period			Breakdowr	of period	1			
	Per	iod	Total	days	Working days	No working days	Engineers	Workers		
Preparation	4 Jul., '02	~ 5 Jul., '02	2.0	00	2.00	<del>-</del>	3.5	20		
D.::::	6 1.1 '00 -	. 14 1.1 '00	8.25		Drilling : 5.00	_	20 13 1 37.5  7.0 46.6 100 10 meters Cumula None of 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	50		
Drilling	6 Jul., U2 ~	14 Jul., '02	8.4	20	Accident: 3.25		13	32.5		
Dismount	14 Jul., '02 -	~ 14 Jul., '02	0.2	25	0.25	_	1	2.5		
Total	4 Jul., '02 ~	· 14 Jul., '02	10.	50	10.50		37.5	105		
		,	Drillir	ng Lengt	h					
Programmed I	ength	50.00 m	Ove	rburden,	sand & gravel,	Quarternary	7	.00 m		
Prolongation		9.00 m		Core	e length		46	.60 m		
Effective leng	th	59.00 m		Core	recovery		10	00.0 %		
	Workin	g hours			Core re	covery by each	10 meter	's		
Drilling	,	25.0 hrs	18.8%	13.0%	Length (m)	Each (%)	Cumu	la. (%)		
Supplemental	drilling work	56.0 hrs	42.1%	29.2%	0 - 7.0	None core	None	core		
Recovery from	n accident	52.0 hrs	39.1%	27.1%	7.0 - 10.0	100.0	100	0.0		
Subtotal		133.0 hrs	100%	69.3%	20.0 - 30.0	100.0	100	0.0		
Preparation/s	etting up	32.0 hrs	-	16.7%	30.0 - 40.0	100.0				
Dismount/mo	bilization	3.0 hrs	-	1.6%	40.0 - 50.0 50.0 - 60.0	100.0 100.0				
Transportatio	n of water	24.0 hrs	-	12.5%		Efficiency				
Others					Effective lengt	h / Working dri	lling days			
					= 59.00m/5.00	days = 11.80 n	n/d			
					Effective lengt	h / Total drillin	g shifts =			
Total		192.0 hrs	-	100%	= 59.00m/10.0	shifts = 5.90 m	n/shift			
		Dri	lling leng	gth by d	ameter					
Bit diameter		190mm $\phi$					То	tal		
Drilling length		59.00 m					59.0	00 m		
Core length	, , , , , ,	46.60 m					46.	60 m		
			Inserted	casing p	pipes					
Inserted lengt	h by diameter	Inserted le	ngth / [	Orilling le	glength Casing recovery					
250mm $\phi$	7.00 m		11.86%	<u> </u>	100%			100%		
200mm φ	10.00 m		16.95%	<u> </u>	100%					

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBK-51)

		Survey period			Breakdow	n of period		tal kers
	Per	iod	Total	l days	Working days	No working days	Engineers	
Preparation	14 Jul., '02	~ 14 Jul., '02	0.9	50	0.50	<u></u>	2	5
Duillin a	15 1.1 '00 -	. 10 1 '00	2.	75	Drilling : 2.75	_	8	27.5
Drilling	15 Jul., 02 P	~ 18 Jul., '02	J.	75	Accident: 1.00	_	4	10
Dismount	18 Jul., '02 -	~ 18 Jul., '02	0.:	25	0.25	_	1	2.5
Total	14 Jul., '02 -	~ 18 Jul., '02	4.5	50	4.50		15	45
			Drillit	ng Lengt	:h			
Programmed I	ength	50.00 m	Ove	rburden,	sand & gravel,	Quarternary	7	.00 m
Prolongation		5.00 m		Core	elength		48	.00 m
Effective lengt	th	55.00 m		Core	recovery		00.0 %	
	Workin	g hours			Core re	ore recovery by each 10 meter		
Drilling		22.0 hrs	36.7%	26.2%	Length (m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	22.0 hrs	36.7%	26.2%	0 - 7.0	None core	None	core
Recovery from	n accident	16.0 hrs	26.7%	19.0%	7.0 - 20.0	100.0	100	0.0
Subtotal		60.0 hrs	100%	71.4%	20.0 - 30.0	100.0	100	0.0
Preparation/s	etting up	8.0 hrs	-	9.5%	30.0 - 40.0	100.0	100	0.0
Dismount/mol	oilization	4.0 hrs	-	4.8%	40.0 - 50.0 50.0 - 55.0	100.0 100.0	100 100	
Transportation	of water	12.0 hrs	-	14.3%		Efficiency		
Others					Effective lengt	h / Working dri	lling days	
					= 55.00m/2.75	days = 20 m/d	1	
		·			Effective lengt	h / Total drillin	g shifts =	
Total		84.0 hrs	_	100%	= 55.00m/5.5 s	shifts = 10 m/s	hift	
		Dri	lling leng	gth by di	ameter			
Bit diameter		190mm $\phi$					То	tal
Drilling length		55.00 m					55.0	00 m
Core length		48.00 m				48.00		
		I	nserted	casing p	pipes			
Inserted lengt	h by diameter	Inserted le	Inserted length / Drilling le			ng length Casing recovery		
250mm $\phi$	5.00 m		9.09%	· · · · · · · · · · · · · · · · · · ·	100%			
200mm $\phi$	8.00 m		14.55%	6		100	%	
					·			

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBK-52)

		Survey period	Survey period					tal
	Per		1	days	Breakdown Working days	No working	Engineers	kers Workers
Preparation	· · · · · · · · · · · · · · · · · · ·	~ 19Jul., '02	<del> </del>	50	0.50	days —	2	5
	10 001., 02		-		Drilling : 3.75	_	13.5	37.5
Drilling	19 Jul., '02 -	~ 23 Jul., '02	3.	75	Accident: 0.00		0	0
D:	22 1.1 '02 -	. 22 1 '02	0.:	25			1	
Dismount	·	~ 23 Jul., '02 ~ 23 Jul., '02	4.		0.25			2.5
Total	19 Jul., 02	- 23 Jul., UZ	<u> </u>		4.50		16.5	45
				ng Lengt				
Programmed I	ength 	50.00 m	Ove		sand & gravel,	Quarternary	<b>_</b>	.00 m
Prolongation		5.00 m			e length		<del> </del>	.00 m
Effective leng	th	55.00 m	<u> </u>	Core	recovery	100.		
	Workin	g hours	<del>,</del>		Core re	ore recovery by each 10 meters		
Drilling		42.0 hrs	67.7%	47.7%	Length (m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	20.0 hrs	32.3%	22.7%	0 - 8.0	None core	None	core
Recovery from	n accident	0.0 hrs	_	-	8.0 - 10.0	100.0	100	0.0
Subtotal		62.0 hrs	100%	70.5%	10.0 - 20.0	100.0	100	0.0
Preparation/s	etting up	8.0 hrs	_	9.1%	20.0 - 30.0 30.0 - 40.0	100.0 100.0	100 100	
Dismount/mol	oilization	2.0 hrs	-	2.3%	40.0 - 50.0 50.0 - 58.0	100.0 100.0	100	0.0
Transportation	n of water	16.0 hrs	_	18.2%		Efficiency		
Others					Effective lengt	h / Working dri	lling days	
					= 55.00m/3.75	days = 14.67 n	n/d	
					Effective lengt	h / Total drillin	g shifts =	
Total		88.0 hrs	_	100%	= 55.00m/7.5 s	shifts = 7.33 m/	shift	
		Dri	lling len	gth by di	ameter			·
Bit diameter		190mm φ					То	tal
Drilling length		55.00 m				<del></del>	55.0	00 m
Core length		47.00 m					<b></b>	00 m
			I Inserted	casing r	pipes		<u>i </u>	<del> </del>
Inserted lengt	h by diameter							
250mm φ	7.00 m		12.73%		100%			
200mm φ	9.00 m		16.36%			100		
	0.00 1.11			-		100%		

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBK-53)

		Survey period			Breakdo	wn of period		tal kers
	Per	iod	Total	days	Working day	No working days	Engineers	
Preparation	13 Aug., '02 ~	13 Aug., '02	1.0	00	1.0		4	10
D 38	14.4 100 -	. 10 A 200	4.75		Drilling : 4.7	5 –	m/shift  wo Engineer  4  19  0  1  25  56  Ch 10 mete Cum Non 10  10  10  10  10  10  10  10  10  10	47.5
Drilling	14 Aug., UZ ^	→ 18 Aug., '02	4.	75	Accident: 0.0	o –	0	0
Dismount	18 Aug., '02 ~	~ 18 Aug., '02	0.25		0.2	5 –	1	2.5
Total	13 Aug., '02 ^	~ 18 Aug., '02	6.0	00	6.0	o –	25	60
			Drillir	ng Lengt	:h			
Programmed I	ength	50.00 m	Ove	rburden,	sand & grave	, Quarternary	8	.50 m
Prolongation		15.00 m	-,,,	Core	elength		56	.50 m
Effective leng	th	65.00 m		Core	recovery		1	00.0 %
	Workin	g hours			Core	recovery by eacl	n 10 meter	rs
Drilling		55.0 hrs	72.4%	49.1%	Length (m)	Each (%)	Cumu	ıla. (%)
Supplemental	drilling work	21.0 hrs	27.6%	18.8%	0 - 8.5	None core	None	core
Recovery from	n accident	-	_	_	8.5 - 10.0	100.0	100	0.0
Subtotal		76.0 hrs	100%	67.9%	10.0 - 20.0	100.0	100	0.0
Preparation/s	etting up	16.0 hrs	-	14.3%	20.0 - 30.0 30.0 - 40.0	100.0 100.0	100	
Dismount/mo	bilization	4.0 hrs		3.6%	40.0 - 50.0 50.0 - 60.0	100.0 100.0	100 100	0.0 0.0
Transportation	n of water	16.0 hrs		14.3%	·	Efficiency		
Others					Effective len	gth / Working dr	illing days	
					= 65.00m/4.7	/5 days = 12.63 i	m/d	
					Effective len	gth / Total drillin	ng shifts =	
Total		112.0 hrs	_	100%	= 65.00m/9.5	shifts = 6.84 m	/shift	
		Dri	lling leng	gth by d	iameter			
Bit diameter		190mm $\phi$					То	tal
Drilling length		65.00 m					65.	00 m
Core length		56.50 m					56.	50 m
		Î	nserted	casing	pipes			
Inserted lengt	h by diameter	Inserted le	ngth / [	Orilling le	ng length Casing recovery			
250mm $\phi$	7.00 m		10.77% 100%			)%		
200mm $\phi$	10.00 m		15.38%	6		100	)%	

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBK-54)

. <del> </del>	Survey period				Breakdown of period		Total workers				
	Per			days	Working days	No working					
- · ·						days					
Preparation	12 Aug., 02 -	→ 13 Aug., '02	1.0	JU	1.00	<u> </u>	ļ	10			
Drilling	13 Aug., '02 ~	- 16 Aug., '02	2.	75	Drilling : 2.75	<del>-</del>	wo   Engineer   4	27.5			
					Accident: 0.00	_	-	0			
Dismount		- 16 AUg., '02	0.2		0.25		1	2.5			
Total	12 Aug., '02 ~	- 16 Aug., '02	4.0	00	4.00		40				
			Drillin	ng Lengt	h 						
Programmed	ength	50.00 m	Ove	rburden,	sand & gravel,	Quarternary	8	.00 m			
Prolongation		10.00 m		Core	length		52	.00 m			
Effective leng	th	60.00 m		Core	recovery		10	00.0 %			
	Workin	g hours			Core re	recovery by each 10 meters					
Drilling		28.0 hrs	73.7%	48.3%	Length (m)	Each (%)	Cumu	la. (%)			
Supplemental	drilling work	10.0 hrs	26.3%	17.2%	0 - 6.0	None core	None	core			
Recovery from	n accident	0.0 hrs	<b>–</b>	-	6.0 - 10.0	100.0	100	0.0			
Subtotal		38.0 hrs	100%	65.5%	20.0 - 30.0	100.0	100	0.0			
Preparation/s	etting up	8.0 hrs	_	13.8%	30.0 - 40.0	100.0	100	0.0			
Dismount/mo	bilization	4.0 hrs	-	6.9%	40.0 - 50.0 50.0 - 60.0	100.0 100.0	100				
Transportatio	n of water	8.0 hrs	_	13.8%		Efficiency					
Others					Effective lengt	h / Working dri	lling days				
					= 61.00m/2.75	days = 22.18 n	n/d				
					Effective lengt	h / Total drillin	g shifts =				
Total		58.0 hrs	_	100%	= 61.00m/5.5 s	shifts = 11.09 m	n/shift				
		Dri	lling leng	th by d	ameter						
Bit diameter		190mm φ					То	tal			
Drilling length		61.00 m					61.0	00 m			
Core length		53.00 m					53.0	00 m			
		·	nserted	casing (	pipes		-	<del></del>			
Inserted leng	th by diameter	Inserted le	ngth / [	Orilling le	length Casing recovery						
250mm φ	6.00 m		10.00%			100%			100%		
200mm φ	9.00 m		15.00%	<u> </u>		100	%				

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBK-55)

		Survey period	l	······································	Breakdowr	of period	Total workers	
	Per	riod	Tota	l days	Working days	No working days	Engineers	
Preparation	16 Aug., '02 ·	~ 16 Aug., '02	0.	50	0.50	_	2	5
Drilling	17 Aug '02	~ 19 Aug., '02		25	Drilling : 2.25	-	9	22.5
Drilling	17 Aug., 02	~ 19 Aug., 02	2	20	Accident: 0.00		0	0
Dismount	19 Aug., '02 ·	~ 19 Aug., '02	0.:	25	0.25	_	1	2.5
Total	16 Aug., '02 ·	~ 19 Aug., '02	3.0	00	3.00	_	12	30
			Drilli	ng Lengt	th			
Programmed I	ength	50.00 m	Ove	rburden,	, sand & gravel, (	Quarternary	7	.00 m
Prolongation		8.00 m		Core	e length		51	.00 m
Effective leng	th	58.00 m		Core	recovery		11	00.0 %
	Workir	ig hours			Core red	covery by each	n 10 meter	rs
Drilling		23.0 hrs	63.9%	42.6%	Length (m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	13.0 hrs	36.1%	24.1%	0 - 7.0	None core	None	core
Recovery from	n accident	_	-	-	8.0 - 10.0	100.0	100	0.0
Subtotal		36.0 hrs	100%	66.7%	10.0 - 20.0	100.0	100	0.0
Preparation/s	etting up	8.0 hrs	-	14.8%	20.0 - 30.0 30.0 - 40.0	100.0 100.0	100	
Dismount/mol	bilization	4.0 hrs	_	7.4%	40.0 - 50.0 50.0 - 58.0	100.0 100.0	100	0.0
Transportation	n of water	6.0 hrs	_	11.1%		Efficiency	7+34-24-24	
Others					Effective lengtl	n / Working dr	illing days	
					= 58.00m/2.25	days = 25.78 r	m/d	
					Effective lengtl	n / Total drillin	ng shifts =	
Total		54.0 hrs	-	100%	= 58.00m/4.5 s	hifts = 12.89 n	n/shift	
		Dri	lling leng	gth by di	iameter			
Bit diameter		190mm φ					То	tal
Drilling length		58.00 m					58.0	00 m
Core length		51.00 m				51.00		
		I	nserted	casing p	oipes			
Inserted lengt	h by diameter	Inserted le	ngth / [	Orilling le	ength	Casing re	covery	
250mm $\phi$	5.00 m		8.62% 100%			%		
200mm $\phi$	7.00 m		12.07%	, o	100%			

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKS-26)

		Survey period			Breakdov	n of period		tal kers
	Per	riod	Tota	l days	Working days	No working days	Engineers	
Preparation	20 Jul., '02 ·	~ 20 Jul., '02	1.0	000	1.000		4	10
D.::!!:	21 1 '02 .	01 1 '00	0.7	.EO	Drilling : 0.750	_	3	7.5
Drilling	21 Jul., 02 *	~ 21 Jul., '02	0.7	'50	Accident: 0.000	_	_	
Dismount	21 Jul., '02 -	~ 21 Jul., '02	0.	25	0.250	_	1	2.5
Total	20 Jul., '02 -	~ 21 Jul., '02	2.0	000	2.000	_	8	20
			Drillin	ng Lengt	th			
Programmed I	ength	40.00 m	Ove	rburden	, sand & gravel,	Quarternary	11	.00 m
Prolongation	•	−9.00 m		Core	elength		20	.00 m
Effective leng	th	31.00 m		Core	recovery		10	00.0 %
	Workin	g hours			Core re	ecovery by each	n 10 meter	rs ,
Drilling		8.0 hrs	34.8%	20.0%	Length (m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	15.0 hrs	65.2%	37.5%	0 - 11.0	None core	None	core
Recovery from	n accident	-		_	11.0 - 20.0	100.0	100	0.0
Subtotal		23.0 hrs	100%	57.5%	20.0 - 30.0	100.0	100	0.0
Preparation/s	etting up	5.0 hrs	-	12.5%	30.0 - 31.00	100.0	100	0.0
Dismount/mol	oilization	4.0 hrs	-	10.0%				
Transportation	of water	8.0 hrs	-	20.0%		Efficiency		
Others					Effective leng	th / Working dr	illing days	
					= 31.00m/0.7	50 days = 41.33	m/d	
			:		Effective leng	th / Total drillir	ng shifts =	
Total		40.0 hrs	_	100%	= 31.00m/3.8	75 shifts = 10.78	3 m/shift	
		Dri	lling leng	gth by di	ameter			
Bit diameter		4"TB	92m	mφ			То	tal
Drilling length		11.00 m	20.00	0 m			31.0	00 m
Core length		0.00 m	20.00	0 m		20.00 n		
		1	nserted	casing p	pipes			
Inserted lengt	h by diameter	Inserted le	ngth / [	rilling le	ength	Casing re	covery	
133mm $\phi$	11.00 m		35.48%	5		100	%	

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKS-27)

		Survey period		<del></del>	Breakdow	n of period		otal kers		
	Per	iod	Total	days	Working days	No working days	Engineers			
Preparation	22 Jul., '02 ^	~ 22 Jul., '02	0.1	25	0.125		0.5	1.25		
Drilling	22 Jul '02 a	~ 22 Jul., '02	0.7	50	Drilling : 0.750		3	7.5		
Drilling	22 Jul., U2 -	• 22 Jul., U2	0.7	50	Accident: 0.000	_	_	_		
Dismount	22 Jul., '02 -	~ 22 Jul., '02	0.125		0.125	_	0.5	1.25		
Total	22 Jul., '02 ~	~ 22 Jul., '02	1.0	00	1.000	. –	4	10		
			Drillir	ng Lengt	:h					
Programmed I	ength	40.00 m	Ove	rburden,	sand & gravel,	Quarternary	10	.00 m		
Prolongation		-10.00 m		Core	elength		20	.00 m		
Effective leng	th	30.00 m		Core	recovery		1	00.0 %		
· · · · · · · · · · · · · · · · · · ·	Workin	g hours			Core re	covery by each	ry by each 10 meters			
Drilling		9.0 hrs	75.0%	45.0%	Length (m)	Each (%)	Cumu	ıla. (%)		
Supplemental	drilling work	3.0 hrs	25.0%	15.0%	0 - 10.0	None core	None	core		
Recovery from	n accident	_	-	_	10.0 - 20.0	100.0	100	0.0		
Subtotal		12.0 hrs	100%	60.0%	20.0 - 30.0	100.0	100	0.0		
Preparation/s	etting up	2.0 hrs	-	10.0%						
Dismount/mol	bilization	2.0 hrs	-	10.0%						
Transportation	n of water	4.0 hrs	-	20.0%	1	Efficiency	1/31-			
Others					Effective leng	th / Working dr	illing days			
					= 30.00m/0.75	i0 days = 40.00	m/d			
					Effective leng	th / Total drillin	ng shifts =			
Total		20.0 hrs	-	100%	= 30.00m/1.5	shifts = 20.00 r	m/shift			
- <del>1</del>	<del> </del>	Dri	lling len	gth by d	iameter					
Bit diameter		4"TB	92m	ım $\phi$			To	otal		
Drilling length		10.00 m	20.0	0 m			30.	00 m		
Core length		0.00 m	20.0	0 m		20.00 m				
	· · · · · · · · · · · · · · · · · · ·		Inserted	casing	pipes					
Inserted lengt	h by diameter	Inserted length / Drilling le			ength	Casing re	ecovery			
133mm <i>ф</i>	11.00 m		36.679	6		100	0%			
:						<u> </u>				

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKS-28)

		Survey period	ı		Breakdown	of period		tal kers	
	Per	iod	Total	days	Working days	No working days	Engineers		
Preparation	17 Jul., '02 ~	- 17 Jul., '02	0.2	50	0.250		1	2.5	
D.:	17 1.1 '00 -	. 10 1.1 '02	2.5	00	Drilling : 2.500	-	10	25	
Drilling	17 Jul., UZ ~	- 19 Jul., UZ	19 Jul., '02		_				
Dismount	19 Jul., '02 ~	~ 19 Jul., '02	0.2	250	0.250	_	1	2.5	
Total	17 Jul., '02 ~	~ 19 Jul., '02	3.0	00	3.000	_	12	30	
			Drillin	ng Lengt	:h				
Programmed I	ength	40.00 m	Ove	rburden,	sand & gravel, (	Quarternary	.50 m		
Prolongation		-6.50 m		Core	elength		24.00		
Effective leng	th	33.50 m		Core	recovery		100.0		
	Workin	g hours			Core red	covery by each	···   ···		
Drilling		22.0 hrs	55.0%	37.9%	Length (m)	Each (%)	Cumu	la. (%)	
Supplemental	drilling work	18.0 hrs	45.0%	31.0%	0 - 12.0	None core	None	core	
Recovery from	n accident	<del>-</del>	<b> </b>	_	12.0 - 20.0	100.0	100	0.0	
Subtotal		40.0 hrs	100%	69.0%	20.0 - 30.0	100.0	100	0.0	
Preparation/s	setting up	4.0 hrs	-	6.9%	30.0 - 35.0	100.0	100	0.0	
Dismount/mo	bilization	4.0 hrs	-	6.9%					
Transportatio	n of water	10.0 hrs	_	17.2%		Efficiency			
Others					Effective lengt	h / Working dr	illing days		
					= 33.50m/2.50	days = 13.40 i	m/d		
					Effective lengt	h / Total drillin	ng shifts =		
Total		58.0 hrs		100%	= 33.50m/5.00	shifts = 6.70 r	n/shift		
		Dr	illing len	gth by d	iameter				
Bit diameter	-	4″TB	92m	ım $\phi$			Тс	tal	
Drilling length		9.50 m	24.0	0 m			33.	50 m	
Core length	•	0.00 m	24.0	0 m		24.00 m			
			Inserted	casing	pipes				
Inserted leng	th by diameter	Inserted le	ength / [	Orilling le	length Casing recovery		ecovery		
133mm $\phi$	9.00 m		26.879	6		100	)%		
	·								

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKS-29)

		Survey period	i		Breakdow	n of period	1	otal kers
	Per	riod	Tota	l days	Working days	No working days	Engineers	
Preparation	11 Jul., '02 -	~ 11 Jul., '02	0.6	88	0.688	_	2.75	6.875
Drilling	12 1.1 '02	~ 16 Jul., '02	4.5	600	Drilling : 1.500	_	5	13
Drilling	12 Jul., 02	~ 10 Jul., 02	4.0	100	Accident: 3.000	_	. 12	25
Dismount	16 Jul., '02 -	~ 16 Jul., '02	0.3125		0.313	_	1.25	3.125
Total	16 Jul., '02 -	~ 16 Jul., '02	5.5	00	5.500	_	21	48
			Drillin	ng Lengt	th			
Programmed I	ength	40.00 m	Ove	rburden	, sand & gravel,	Quarternary	9	.00 m
Prolongation		0.00 m		Core	e length		31	.00 m
Effective leng	th	40.00 m		Core	recovery	. 100		
	Workin	g hours			Core re	ore recovery by each 10 meters		
Drilling		13.0 hrs	18.1%	13.8%	Length (m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	11.0 hrs	15.3%	11.7%	0 - 16.0	None core	None	core
Recovery fron	n accident	48.0 hrs	66.7%	51.1%	16.0 - 20.0	100.0	100	0.0
Subtotal		72.0 hrs	100%	76.6%	20.0 - 30.0	100.0	100	0.0
Preparation/s	etting up	11.0 hrs	_	11.7%	30.0 - 40.00	100.0	100	0.0
Dismount/mol	oilization	5.0 hrs	-	5.3%				
Transportation	n of water	6.0 hrs	_	6.4%		Efficiency		
Others					Effective lengt	h / Working dri	lling days	
					= 40.00m/4.50	days = 8.89 m/	⁄d	
					Effective lengt	h / Total drillin	g shifts =	
Total		94.0 hrs		100%	= 40.00m/9 sh	ifts = 4.44 m/sl	hift	
	74.74.	Dri	ling leng	th by di	ameter			,
Bit diameter		4"TB	92m	m φ			То	tal
Drilling length		9.00 m	31.00	O m			40.0	00 m
Core length		0.00 m	31.00	) m		31.00 n		
		I	nserted	casing p	pipes			
Inserted lengt	h by diameter	Inserted le	ngth / D	/ Drilling length Casing recovery				
133mm φ	13.00 m		32.50%	, )	100%			
			,					

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKS-30)

		Survey period			Breakdow	n of period		otal kers
	Per	riod	Tota	l days	Working days	No working days	Engineers	
Preparation	26 Jul., '02	~ 26 Jul., '02	0.0	063	0.063	_	0.25	0.625
Drilling	26 1.1 '02	~ 26 Jul., '02	0.5	313	Drilling : 0.813	_	3.25	8.125
Drilling	20 Jul., 02 P	~ 20 Jul., 02	0.0	013	Accident: 0.000	<del>-</del>	_	_
Dismount	26 Jul., '02 1	~ 26 Jul., '02	0.	125	0.125	_	0.5	1.25
Total	26 Jul., '02 -	~ 26 Jul., '02	1.0	000	1.000	<del>-</del>	4	10
			Drilli	ng Leng	th			
Programmed I	ength	40.00 m	Ove	rburden	, sand & gravel,	Quarternary	8	.70 m
Prolongation		0.00 m		Core	e length		31	.30 m
Effective leng	th	40.00 m		Core	recovery		10	00.0 %
	Workin	g hours			Core re	covery by each	10 meter	rs .
Drilling		10.0 hrs	76.9%	50.0%	Length (m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	3.0 hrs	23.1%	15.0%	0 - 12.0	None core	None	core
Recovery fron	n accident	<u>-</u>	-	-	12.0 - 20.0	100.0	100	).0
Subtotal		13.0 hrs	100%	65.0%	20.0 – 30.0	100.0	100	0.0
Preparation/s	etting up	1.0 hrs	_	5.0%	30.0 - 40.0	100.0	100	).0
Dismount/mol	oilization	2.0 hrs	-	10.0%				
Transportation	of water	4.0 hrs	-	20.0%		Efficiency		
Others					Effective lengt	h / Working dri	lling days	
					= 40.00m/0.81	3 days = 49.20	m/d	
					Effective lengt	h / Total drillin	g shifts =	
Total		20.0 hrs	-	100%	= 40.00m/1.62	6 shifts = 24.60	m/shift	
		Dri	ling leng	gth by di	ameter			
Bit diameter		4"TB	92m	m $\phi$			To	tal
Drilling length		11.00 m	29.00	O m			40.0	00 m
Core length		0.00 m	29.00	) m		29.00 m		
		I	nserted	casing p	pipes			
Inserted lengt	h by diameter	Inserted le	ngth / D	Prilling le	ength	Casing re	covery	
133mm $\phi$	11.00 m		27.50%		100%			

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKS-31)

	· ·	Survey period		,	Breakdow	n of period		tal kers	
	Per	iod	Total	days	Working days	No working days	Engineers		
Preparation	25 Jul., '02 -	~ 25 Jul., '02	0.0	63	0.063	_	0.25	0.625	
D.:10:	0E t.1 '00 -	05 () 200		12	Drilling : 0.813	_	3.25	8.125	
Drilling	25 Jul., 02 7	~ 25 Jul., '02	0.8	113	Accident: 0.000	_	_		
Dismount	25 Jul., '02 -	~ 25 Jul., '02	0.1	25	0.125	_	0.5	1.25	
Total	25 Jul., '02 -	~ 25 Jul., '02	1.0	00	1.000		4	10	
		<del> </del>	Drillin	ng Lengt	th				
Programmed I	ength	40.00 m	Ove	rburden,	, sand & gravel,	Quarternary	9	.00 m	
Prolongation		1.00 m		Core	elength	11,000	32	.00 m	
Effective leng	th	41.00 m		Core	recovery	100.0			
	Workin	g hours			Core re	ore recovery by each 10 meters			
Drilling		10.0 hrs	76.9%	47.6%	Length (m)	Each (%)	Cumu	la. (%)	
Supplemental	drilling work	3.0 hrs	23.1%	14.3%	0 - 9.0	None core	None	core	
Recovery from	n accident	-	-	-	9.0 - 20.0	100.0	100	0.0	
Subtotal		13.0 hrs	100%	61.9%	20.0 - 30.0	100.0	100	0.0	
Preparation/s	etting up	1.0 hrs	_	4.8%	30.0 - 40.0	100.0	100	0.0	
Dismount/mol	bilization	3.0 hrs	-	14.3%	40.0 - 41.0	100.0	100	0.0	
Transportation	n of water	4.0 hrs	_	19.0%	:	Efficiency			
Others					Effective lengt	h / Working dri	illing days		
					= 41.00m/0.81	3 days = 49.20	m/d		
					Effective lengt	h / Total drillir	ng shifts =		
Total		21.0 hrs	_	100%	= 41.00m/1.62	6 shifts = 25.22	2 m/shift		
		Dri	lling len	gth by d	iameter				
Bit diameter		4"TB	92m	ım $\phi$			То	tal	
Drilling length		11.00 m	30.0	0 m			41.0	00 m	
Core length		0.00 m	30.0	0 m			30.	00 m	
		I	nserted	casing	pipes				
Inserted lengt	h by diameter	Inserted le	ngth / [	Orilling le	ength	Casing re	covery		
133mm $\phi$	11.00 m		26.83%	6		100	%		

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKS-32)

		Survey period			Breakdowr	of period		tal kers
	Per	iod	Total	days	Working days	ing days No working days		Workers
Preparation	24 Jul., '02 ~	~ 24 Jul., '02	0.1	25	0.125	-	0.5	1.25
D :111:	04.1.1.100	04 1 1 200	0.7	E0	Drilling : 0.750	_	3	7.5
Drilling	24 Jul., '02 ^	~ 24 Jul., U2	0.7	อบ	Accident: 0.000	_		_
Dismount	24 Jul., '02 ~	~ 24 Jul., '02	0.1	25	0.125	-	0.5	1.25
Total	24 Jul., '02 ~	~ 24 Jul., '02	1.0	00	1.000	-	4	10
			Drillir	ng Lengt	h			
Programmed I	ength	40.00 m	Ove	rburden,	sand & gravel,	Quarternary	9	.00 m
Prolongation	tion 0.00 m			Core	length		31	.00 m
Effective leng	th	40.00 m		Core	recovery		1	00.0 %
	Workin	Working hours Core recovery by each				10 mete	rs	
Drilling		9.0 hrs	75.0%	45.0%	Length (m)	Length (m) Each (%) Cur		
Supplemental	drilling work	3.0 hrs	25.0%	15.0%	0 - 12.0	None core	None	core
Recovery from	n accident	-	-	-	12.0 – 20.0	100.0	100	0.0
Subtotal		12.0 hrs	100%	60.0%	20.0 - 30.0	100.0	10	0.0
Preparation/s	etting up	2.0 hrs	_	10.0%	30.0 - 40.0	100.0	100	0.0
Dismount/mo	bilization	2.0 hrs	_	10.0%				
Transportatio	n of water	4.0 hrs	_	20.0%		Efficiency		
Others					Effective lengt	h / Working dr	illing days	
					= 40.00m/0.75	0 days = 53.30	m/d	
					Effective lengt	h / Total drillir	ng shifts =	
Total .		20.0 hrs	-	100%	= 40.00m/1.50	shifts = 26.67	m/shift	
		Dri	illing len	gth by d	iameter	,		
Bit diameter		4″TB	92m	ım $\phi$			Тс	tal
Drilling length		9.00 m	31.0	0 m			40.	00 m
Core length		0.00 m	31.0	0 m	31.0			00 m
			Inserted	casing	pipes			
Inserted lengt	th by diameter	Inserted le	ength / [	Orilling length Casing recovery				·
133mm $\phi$	11.00 m		27.509	6		100	)%	

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKS-33)

		Survey period		<del> </del>	Breakdow	n of period		tal kers	
	Per	riod	Tota	l days	Working days	No working days	Engineers		
Preparation	23 Jul., '02 •	~ 23 Jul., '02	0.1	25	0.125		0.5	1.25	
Drilling	23 Jul '02	~ 23 Jul., '02	0.7	50	Drilling : 0.750	_	3	7.5	
Drining	23 Jul., 02	- 23 Jul., UZ	0.7	30	Accident: 0.000			_	
Dismount	23 Jul., '02 -	~ 23 Jul., '02	0.1	125	0.125	<del>-</del>	0.5	1.25	
Total	23 Jul., '02 -	~ 23 Jul., '02	1.0	00	1.000		4	10	
			Drilli	ng Lengt	th				
Programmed I	ength	40.00 m	Ove	rburden	, sand & gravel,	Quarternary	9	.00 m	
Prolongation		−5.00 m		Core	elength		26	.00 m	
Effective leng	th	35.00 m		Core	recovery		11	00.0 %	
	Workin	Working hours Core recovery by each 10					10 meter	rs	
Drilling		9.0 hrs	75.0%	45.0%	Length (m)	th (m) Each (%) Cumi			
Supplemental	drilling work	3.0 hrs	25.0%	15.0%	0 - 12.0	None core	ne core None		
Recovery fron	n accident	_		-	12.0 - 20.0	100.0	100.0		
Subtotal		12.0 hrs	100%	60.0%	20.0 - 30.0	100.0	100	0.0	
Preparation/s	etting up	2.0 hrs	-	10.0%	30.0 - 35.0	100.0	100	0.0	
Dismount/mol	oilization	2.0 hrs	-	10.0%					
Transportation	of water	4.0 hrs	-	20.0%		Efficiency			
Others					Effective lengt	h / Working dri	lling days		
					= 35.00m/0.75	days = 46.67 n	n/d		
					Effective lengt	h / Total drillin	g shifts =		
Total		20.0 hrs	-	100%	= 35.00m/1.50	shifts = 23.33	m/shift		
·	···	Dri	lling leng	gth by di	ameter				
Bit diameter		4"TB	92m	mφ			То	tal	
Drilling length		9.00 m	26.0	0 m			35.0	00 m	
Core length		0.00 m	26.0	0 m	2			00 m	
		I	nserted	casing p	oipes				
Inserted lengt	h by diameter	Inserted le	ngth / [	Prilling le	ength	Casing re	covery		
133mm φ	11.00 m		31.43%	, 		100	%		

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-1)

		Survey period		•	Breakdowi	n of period		tal kers	
	Per	iod	Total	days	Working days	No working days	Engineers		
Preparation	2 Aug., '02 ~	~ 2 Aug., '02	0.5	50	0.50	-	2	5	
D.:::::	2 A '02 -	~ 3 Aug., '02	0.4	1.4	Drilling : 0.44	-	2.75	4.375	
Drilling	3 Aug., 02 -	♥ 3 Aug., UZ	0.4	+4	Accident: 0.00		0	0	
Dismount	3 Aug., '02 ~	~ 3 Aug., '02	0.0	06	0.06	***	0.25	0.625	
Total	2 Aug., '02 ~	~ 2 Aug., '02	1.0	00	1.00	<del>-</del>	5	10	
			Drillir	ng Lengt	th				
Programmed I	ength	45.00 m	Ove	rburden	, sand & gravel,	Quarternary	8	.00 m	
Prolongation		0.00 m		Core	elength		37	.00 m	
Effective leng	th	45.00 m		Core	recovery		1	00.0 %	
	Workin	Working hours Core recovery by each 1					10 mete	rs	
Drilling		5.0 hrs	71.4%	25.0%	Length (m)	Cumu	la. (%)		
Supplemental	drilling work	2.0 hrs	28.6%	10.0%	0 - 11.0	None core	ore None c		
Recovery from	n accident		-	-	11.0 - 20.0	100.0	100.0		
Subtotal		7.0 hrs	100%	76.5%	20.0 - 29.0	100.0	100	0.0	
Preparation/s	etting up	8.0 hrs	-	40.0%					
Dismount/mo	bilization	1.0 hrs	_	5.0%					
Transportatio	n of water	4.0 hrs	-	20.0%		Efficiency			
Others					Effective lengt	h / Working dr	illing days		
					= 45.00m/0.44	days = 102.86	m/d		
					Effective lengt	h / Total drillir	ng shifts =		
Total		20.0 hrs		100%	= 45.00m/0.87	5 shifts = 51.43	3 m/shift	·····	
		Dri	illing len	gth by d	iameter				
Bit diameter		4″TB	92m	ım Ø			То	tal	
Drilling length		0.00 m	45.0	0 m			45.	00 m	
Core length		0.00 m	37.0	0 m	0 m				
			Inserted	casing	pipes				
Inserted lengt	th by diameter	inserted le	ength / [	Orilling le	ength	Casing re	covery		

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-2)

		Survey period			Breakdow	n of period		ital kers	
	Per	iod	Total	days	Working days	No working days	Engineers		
Preparation	3 Aug., '02 -	~ 3 Aug., '02	0.5	00	0.500	_	2	5	
Daillin a	4 4 '02 -	~ 4 Aug., '02	0.4	20	Drilling : 0.438	_	1.75	4.375	
Drilling	4 Aug., 02 -	→ 4 Aug., UZ	0.4	30	Accident: 0.000	_	0	0	
Dismount	4 Aug., '02 -	~ 4 Aug., '02	0.0	63	0.063	<del>-</del>	0.25	0.625	
Total	3 Aug., '02 -	~ 4 Aug., '02	1.000		1.000	<del>-</del> ·	4	10	
			Drillin	ng Lengt	:h				
Programmed i	ength	45.00 m	Ove	rburden,	, sand & gravel,	Quarternary	12	.00 m	
Prolongation	5.00 m Core length				38	.00 m			
Effective leng	th 50.00 m Core				recovery		1	00.0 %	
	Working hours Core recovery by ea				covery by each	10 meter	rs		
Drilling		5.0 hrs	71.4%	22.7%	Length (m)	ength (m) Each (%) Cun			
Supplemental	drilling work	2.0 hrs	28.6%	9.1%	0 - 12.0	None core	re None co		
Recovery from	n accident	-	-	-	12.0 - 20.0	100.0	0 100.0		
Subtotal		7.0 hrs	100%	31.8%	20.0 - 30.0	100.0	100	0.0	
Preparation/s	etting up	8.0 hrs	-	36.4%	30.0 - 40.0	100.0	100	0.0	
Dismount/mo	bilization	1.0 hrs	-	4.5%	40.0 - 50.0	100.0	100	0.0	
Transportation	n of water	6.0 hrs	-	27.3%	·	Efficiency			
Others					Effective lengt	h / Working dr	illing days		
					= 50.00m/0.43	75 days = 114.	29 m/d		
					Effective lengt	h / Total drillir	ng shifts =		
Total		22.0 hrs	-	100%	= 50.00m/0.87	5 shifts = 57.14	4 m/shift	···	
		Dri	lling leng	gth by d	iameter		-4		
Bit diameter		4"TB	92m	$Im \phi$			То	tal	
Drilling length		0.00 m	50.0	0 m			50.	00 m	
Core length		0.00 m	38.0	0 m	n 3			00 m	
			Inserted	casing	pipes				
Inserted lengt	h by diameter	Inserted le	ngth / [	Orilling le	ength	Casing re	covery		
		ŧ.							
						:			

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-3)

		Survey period			Breakdowr	of period	Total workers			
	Per	iod	Total	days	Working days	No working days	Engineers	Workers		
Preparation	4 Aug., '02 ~	- 4 Aug., '02	0.0	31	0.031	-	0.125	0.3125		
D 1111	4.4	. 4 4 '00	0.4	20	Drilling : 0.438	•••	1.75	4.375		
Drilling	4 Aug., '02 ^	9 4 Aug., UZ	0.4	30	Accident: 0.000	_	0	0		
Dismount	4 Aug., '02 ~	~ 4 Aug., '02	0.0	31	0.031	_	0.125	0.3125		
Total	4 Aug., '02 ~	- 4 Aug., '02	0.5	00	0.500	<u> </u>	2	5		
			Drillir	ng Lengt	:h					
Programmed I	ength	45.00 m	Ove	rburden,	sand & gravel,	Quarternary	7	.00 m		
Prolongation		-4.00 m		Core	elength		34	.00 m		
Effective leng	th	41.00 m		Core	recovery		1	00.0 %		
	Working hours Core recovery b					covery by each	10 meter	rs		
Drilling		5.0 hrs	71.4%	41.7%	Length (m)	Cumu	ıla. (%)			
Supplemental	drilling work	2.0 hrs	28.6%	16.7%	0 - 10.0	None core	None core None			
Recovery from	n accident	-	_	-	10.0 - 20.0	100.0	100	0.0		
Subtotal		7.0 hrs	100%	58.3%	20.0 - 30.0	100.0	100	0.0		
Preparation/s	etting up	0.5 hrs	_	4.2%	30.0 - 40.0	100.0	100	0.0		
Dismount/mol	bilization	0.5 hrs	-	4.2%	40.0 - 41.0	100.0	100.0			
Transportation	n of water	4.0 hrs	_	33.3%		Efficiency				
Others					Effective lengt	h / Working dri	illing days			
				:	= 41.00m/0.43	75 days = 93.7	1m/d			
					Effective lengt	h / Total drillir	ng shifts =			
Total		12.0 hrs	-	100%	= 41.00m/0.87	5 shifts = 46.86	3 m/shift			
		Dri	lling len	gth by d	iameter					
Bit diameter		4″TB	92m	ım $\phi$			Тс	tal		
Drilling length		0.00 m	41.0	0 m			41.	00 m		
Core length		0.00 m	34.00 m				34.	00 m		
		1	Inserted	casing	pipes					
Inserted lengt	h by diameter	Inserted le	ngth / [	Orilling l	ength	Casing re	covery			

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-4)

		Survey period			Breakdow	n of period		tal kers
	Per	riod	Total	days	Working days	No working days	Engineers	
Preparation	9 Aug., '02 -	~ 9 Aug., '02	0.0	31	0.031		0.125	0.3125
Drilling	0 000 '02 a	~ 9 Aug., '02	0.4	20	Drilling : 0.438	-	1.75	4.375
Drining	9 Aug., 02	- 9 Aug., 02	0.4	30	Accident: 0.000		0	0
Dismount	9 Aug., '02 -	~ 9 Aug., '02	0.0	31	0.031	_	0.125	0.3125
Total	9 Aug., '02 -	~ 9 Aug., '02	0.5	00	0.500	_	2	5
			Drillir	ng Lengt	th			
Programmed I	ength	45.00 m	Ove	rburden	, sand & gravel,	Quarternary	2	.00 m
Prolongation		−28.00 m		Core	elength		14	.00 m
Effective leng	th	17.00 m		Core	recovery		1	00.0 %
-	Working hours				Core re	covery by each	10 mete	s
Drilling		5.0 hrs	71.4%	50.0%	Length (m)	(m) Each (%) Cumu		
Supplemental	drilling work	2.0 hrs	28.6%	20.0%	0 - 9.0	None core	None	core
Recovery from	n accident	-	_	-	9.0 - 10.0	100.0	100	0.0
Subtotal		7.0 hrs	100%	70.0%	10.0 - 17.0	100.0	100	0.0
Preparation/s	etting up	0.5 hrs	_	5.0%				
Dismount/mol	oilization	0.5 hrs	_	5.0%				
Transportation	n of water	2.0 hrs	_	20.0%	Efficiency			
Others					Effective lengt	h / Working dri	illing days	
					= 17.00m/0.43	75 days = 38.8	6 m/d	
					Effective lengt	h / Total drillir	ng shifts =	
Total		10.0 hrs	-	100%	= 17.00m/0.87	5 shifts = 19.43	3 m/shift	
		Dri	lling leng	th by d	iameter			
Bit diameter		4″TB	92m	mφ			То	tal
Drilling length		0.00 m	17.0	0 m			17.	00 m
Core length 0.00 m 14.00 m					14.	00 m		
		1	nserted	casing	pipes			
Inserted lengt	h by diameter	Inserted le	ngth / [	Orilling le	ength	Casing re	covery	

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-5)

	Survey period				Breakdow	n of period		otal kers
	Per	iod	Tota	days	Working days	No working days	Engineers	
Preparation	9 Aug., '02 -	~ 9 Aug., '02	0.0	31	0.03	_	0.125	0.3125
Drilling	0 Aug '02 a	~ 9 Aug., '02	0.4	20	Drilling : 0.44	_	1.75	4.375
Drining	3 Aug., 02	- 3 Aug., 02			Accident: 0.00		0	0
Dismount	9 Aug., '02 -	~ 9 Aug., '02	0.0	31	0.03	_	0.125	0.3125
Total	9 Aug., '02 -	~ 9 Aug., '02	0.5	00	0.50		2	5
			Drillin	ng Lengt	th			
Programmed I	ength	45.00 m	Ove	rburden	, sand & gravel,	Quarternary	5	.00 m
Prolongation		−27.00 m		Core	elength		13	.00 m
Effective lengt	:h	18.00 m		Core	recovery		1	00.0 %
	Working hours				Core re	covery by each	10 meter	rs
Drilling		5.0 hrs	71.4%	50.0%	Length (m)	Cumu	la. (%)	
Supplemental	drilling work	2.0 hrs	28.6%	20.0%	0 - 5.0	0 - 5.0 None core		
Recovery from	accident	-	-	-	5.0 - 10.0	100.0	100	0.0
Subtotal		7.0 hrs	100%	34.0%	10.0 - 18.0	100.0	100	0.0
Preparation/s	etting up	0.5 hrs	-	5.0%				
Dismount/mob	oilization	0.5 hrs	-	5.0%				
Transportation	of water	2.0 hrs	_	20.0%		Efficiency		
Others					Effective lengt	th / Working dri	lling days	
					= 18.00m/0.43	75 days = 41.14	4 m/d	
					Effective lengt	h / Total drillin	g shifts =	
Total		10.0 hrs	_	100%	= 18.00m/0.87	5 shifts = 20.57	m/shift	
		Dri	lling leng	gth by di	iameter			
Bit diameter		190mm $\phi$					То	tal
Drilling length		18.00 m					18.0	00 m
Core length		13.00 m			1			
		I	nserted	casing (	oipes			
Inserted lengt	n by diameter	Inserted le	ngth / [	Prilling le	ength	Casing re	covery	

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-6)

· · · · · · · · · · · · · · · · · · ·		Survey period			Breakdowr	of period	Total workers		
	Per	iod	Total days V		Working days	No working days	Engineers		
Preparation	10 Aug., '02 ~	~ 10 Aug., '02	0.0	31	0.031		0.125	0.3125	
D. ''''	10 4 '00 -	. 10 4 '02	0.4	20	Drilling : 0.438	-	1.75	4.375	
Drilling	10 Aug., 02 ^	~ 10 Aug., '02	0.4	38	Accident: 0.000	_	0	0	
Dismount	10 Aug., '02 ~	~ 10 Aug., '02	0.031		0.031	_	0.125	0.3125	
Total	10 Aug., '02 ~	~ 10 Aug., '02	0.5	00	0.500	_	2	5	
			Drillir	ng Lengt	h				
Programmed	length	45.00 m	Ove	rburden,	sand & gravel,	Quarternary	3	.00 m	
Prolongation		−23.00 m		Core	elength	- '	19	.00 m	
Effective leng	th	22.00 m		Core	recovery		1	00.0 %	
	Workin	g hours			Core re	covery by each	10 mete	rs	
Drilling		5.0 hrs	71.4%	50.0%	Length (m)	Cumu	ıla. (%)		
Supplemental	drilling work	2.0 hrs	28.6%	20.0%	0 - 9.0	None core	None	core	
Recovery from	m accident	-	-	-	9.0 - 10.0	100.0	0 100.0		
Subtotal		7.0 hrs	100%	70.0%	10.0 - 20.0	100.0	10	0.0	
Preparation/s	setting up	0.5 hrs	_	5.0%	20.0 - 22.0	100.0	10	0.0	
Dismount/mo	bilization	0.5 hrs	-	5.0%					
Transportatio	n of water	2.0 hrs	_	20.0%	Efficiency				
Others				i	Effective lengt	h / Working dr	illing days		
					= 22.00m/0.43	75 days = 50.2	9 m/d		
					Effective lengt	h / Total drillir	ng shifts =		
Total		10.0 hrs	-	100%	= 22.00m/0.87	5 shifts = 25.1	4 m/shift		
		Dri	illing len	gth by d	iameter				
Bit diameter		4″TB	92m	$m\phi$			To	tal	
Drilling length	1	0.00 m	22.0	0 m			22.	00 m	
Core length		0.00 m	19.0	0 m			19.	00 m	
			Inserted	casing	pipes				
Inserted leng	th by diameter	inserted le	ength / [	Orilling l	ength	Casing re	covery		

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-7)

	Survey period				Br	eakdowr	of period	To wor	tal kers	
	Per	iod	Total	days	Workir	ng days	No working days	Engineers	Workers	
Preparation	29 Jul., '02 ~	- 29 Jul., '02	0.0	31		0.031	_	0.1875	0.3125	
	00 11 200	. 00 1.1 200	0.4	20	Drilling	: 0.438	_	2.625	4.375	
Drilling	29 Jul., '02 ~	~ 29 Jul., U2	0.4	30	Acciden	t: 0.000	_	0	0	
Dismount	29 Jul., '02 ~	~ 29 Jul., '02	0.0	31		0.031	_	0.1875	0.3125	
Total	29 Jul., '02 ~	- 29 Jul., '02	0.500			0.500	_	3	5	
			Drillir	ng Lengt	:h					
Programmed I	ength	45.00 m	Ove	rburden,	, sand &	gravel, (	Quarternary	7	.00 m	
Prolongation		−1.00 m		Core	elength			37	.00 m	
Effective leng	th	44.00 m		Core	recove	ry		1	00.0 %	
	Workin	Working hours Core recovery by each 10					10 mete	rs		
Drilling		4.0 hrs	57.1%	40.0%	% Length (m) Each (%) Cu				ıla. (%)	
Supplemental	drilling work	3.0 hrs	42.9%	30.0%	0	- 7.0	None core	core		
Recovery from	n accident		-	-	7.0 ·	- 10.0	100.0	100.0		
Subtotal		7.0 hrs	100%	70.0%	10.0	- 20.0	100.0	10	0.0	
Preparation/s	etting up	0.5 hrs	-	5.0%	20.0	- 30.0	100.0	10	0.0	
Dismount/mo	bilization	0.5 hrs	-	5.0%	30.0	- 40.0	100.0	10	0.0	
Transportatio	n of water	2.0 hrs	_	20.0%			Efficiency			
Others					Effect	ive lengt	h / Working dr	illing days		
					= 44.0	0m/0.43	8 days = 100.4	6 m/d		
					Effect	ive lengt	h / Total drillir	ng shifts =	:	
Total		10.0 hrs	_	100%	= 44.0	0m/0.87	6 shifts = 50.23	3 m/shift		
		Dr	illing len	gth by d	liameter					
Bit diameter		4″TB	92m	ım Ø				To	otal	
Drilling length		0.00 m	44.0	0 m				44.	00 m	
Core length		0.00 m	37.0	0 m	37.				00 m	
			Inserted	casing	pipes					
Inserted leng	th by diameter	Inserted le	ength / I	Drilling I	rilling length Casing recovery					

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-8)

		Survey period			Breakdow	n of period	i .	ital kers	
	Per	riod	Tota	l days	Working days	No working days	Engineers		
Preparation	29 Jul., '02 <i>•</i>	~ 29 Jul., '02	0.1	25	0.125		0.5	1.25	
Drilling	29 Jul '02	~ 30 Jul., '02	0.7	50	Drilling : 0.750		3	7.5	
Drining	29 Jul., 02	- 30 dui., 02	0.7	30	Accident: 0.000	_	0	0	
Dismount	30 Jul., '02 -	~ 30 Jul., '02	0.1	25	0.125	_	0.5	1.25	
Total	29 Jul., '02 1	~ 30 Jul., '02	1.000		1.000	_	4	10	
			Drilli	ng Lengt	th				
Programmed I	ength	45.00 m	Ove	rburden	, sand & gravel,	Quarternary	7	.00 m	
Prolongation		14.50 m		Core	e length		52	.50 m	
Effective leng	th	59.50 m	·	Core	recovery		10	00.0 %	
	Working hours					covery by each	10 meter	's	
Drilling		8.0 hrs	66.7%	40.0%	Length (m)	ength (m) Each (%)			
Supplemental	drilling work	4.0 hrs	33.3%	20.0%	0 - 7.0	0 - 7.0 None core			
Recovery from	n accident	-	-		7.0 - 10.0	100.0	100	0.0	
Subtotal		12.0 hrs	100%	60.0%	10.0 - 20.0	100.0	100	).0	
Preparation/s	etting up	2.0 hrs	_	10.0%	20.0 - 30.0	100.0	100	0.0	
Dismount/mol	oilization	2.0 hrs	-	10.0%	30.0 ~ 40.0 40.0 ~ 50.0	100.0 100.0	100 100		
Transportation	of water	4.0 hrs	-	20.0%	Efficiency				
Others					Effective lengt	h / Working dri	lling days		
					= 59.50m/0.75	days = 79.33 n	n/d		
					Effective lengt	h / Total drillin	g shifts =		
Total		20.0 hrs	-	100%	= 59.50m/1.5 s	hifts = 39.67 m	/shift		
		Dri	lling leng	gth by di	ameter				
Bit diameter		4"TB	92m	mφ			To	tal	
Drilling length		0.00 m	59.50	0 m			59.5	50 m	
Core length 0.00 m			52.50	0 m			52.5	50 m	
		I	nserted	casing p	oipes				
Inserted lengt	h by diameter	Inserted le	ngth / [	Prilling le	ength	Casing re	covery		

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-9)

		Survey period	<del>.</del>	····	Breakdow	n of period	Total workers	
	Pei	riod	Tota	l days	Working days	No working days	Engineers	
Preparation	30 Jul., '02 <i>•</i>	~ 30 Jul., '02	0.2	250	0.250	_	1	2.5
Drilling	30 Jul '02 4	~ 31 Jul., '02	1 1	25	Drilling : 1.125	_	4.5	11.25
Drining	50 Gai., 62	51 Our., 02	1.1	25	Accident: 0.000	_	0	0
Dismount	31 Jul., '02 •	~ 31 Jul., '02	0.1	25	0.125	_	0.5	1.25
Total	30 Jul., '02 •	~ 31 Jul., '02	1.5	00	1.500	-	6	15
			Drilli	ng Leng	th		***	
Programmed I	ength	45.00 m	Ove	rburden	, sand & gravel,	Quarternary	8	.00 m
Prolongation		10.50 m	0.50 m Core length				47	.50 m
Effective leng	gth 55.50 m Core recovery					10	00.0 %	
	Working hours Core recovery by each					10 meter	's	
Drilling		8.0 hrs	66.7%	40.0%	Length (m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	4.0 hrs	33.3%	20.0%	0 - 9.0	None core	None	core
Recovery from	n accident	-	-	_	9.0 - 10.0	100.0	100	).0
Subtotal		12.0 hrs	100%	60.0%	10.0 - 20.0	100.0	100	).0
Preparation/s	etting up	2.0 hrs	_	10.0%	20.0 - 30.0	100.0	100	0.0
Dismount/mol	oilization	2.0 hrs	_	10.0%	30.0 - 40.0	100.0	100	).0
Transportation	of water	4.0 hrs	-	20.0%		Efficiency		
Others					Effective lengt	h / Working dri	lling days	
					= 55.50m/1.12	5 days = 49.33	m/d	
					Effective lengt	h / Total drillin	g shifts =	
Total		20.0 hrs		100%	= 55.50m/2.25	shifts = 24.67	m/shift	
		Dri	lling leng	th by di	ameter			
Bit diameter		4″TB	92m	m $\phi$	·		То	tal
Drilling length		0.00 m	55.50	0 m			55.5	i0 m
Core length 0.00 m			47.50	0 m			47.5	i0 m
			nserted	casing p	pipes			
Inserted lengt	h by diameter	Inserted le	ngth / D	rilling le	ength	Casing re	covery	

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-10)

		Survey period	· . ·		Breakdowr	of period	1			
	Per	iod	Total	days	Working days	No working days	Engineers	Workers		
Preparation	4 Jul., '02 ~	~ 5 Jul., '02	2.0	00	2.00	_	8	20		
D 111:	6 1.1 200 -	. 0 1.1 100	9-	76	Drilling : 1.00	-	4	10		
Drilling	6 Jul., '02 ^	9 Jul., U2	3.7	75 .	Accident: 2.75			27.5		
Dismount	9 Jul., '02 ~	- 9 Jul., '02	0.2	25	0.25	<b>–</b>	1	2.5		
Total	4 Jul., '02 ~	~ 9 Jul., '02	6.0	00	6.00	_	24	60		
			Drillir	ng Lengt	:h					
Programmed I	ength	45.00 m	Ove	rburden,	sand & gravel,	ravel, Quarternary 8.00				
Prolongation		-23.00 m		Core	elength		14.00 n			
Effective leng	th	22.00 m		Core	recovery		100.0 %			
	Workin	g hours			Core re	covery by each	10 mete	rs		
Drilling		8.0 hrs	12.7%	8.0%	Length (m)	Each (%)	Cumu	ıla. (%)		
Supplemental	drilling work	11.0 hrs	17.5%	11.0%	0 - 9.0	None core	None	core		
Recovery from	n accident	44.0 hrs	69.8%	44.0%	9.0 - 10.0	100.0	10	0.0		
Subtotal		63.0 hrs	100%	63.0%	10.0 - 20.0	100.0	100	0.0		
Preparation/s	etting up	32.0 hrs	_	32.0%	20.0 – 22.0	100.0	10	0.0		
Dismount/mol	bilization	1.0 hrs	_	1.0%						
Transportation	n of water	4.0 hrs	-	4.0%		Efficiency				
Others			1		Effective lengt	h / Working dr	illing days			
					= 22.00m/1.00	days = 22.00 r	n/d			
					Effective lengt	h / Total drillir	ng shifts =	:		
Total		100.0 hrs	-	100%	= 22.00m/2.0	shifts = 11.0 m.	/shift			
		Dri	illing len	gth by d	iameter					
Bit diameter		4″TB	92m	ım Ø			To	otal		
Drilling length		13.00 m	9.0	0 m			22.	00 m		
Core length		0.00 m	9.0	0 m			9.00 m			
			Inserted	casing	pipes					
Inserted lengt	h by diameter	Inserted le	nserted length / Drilling I		ength	h Casing recovery				
133mm $\phi$	13.00 m		59.09	%		100%				
	·									

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-11)

		Survey period			Breakdowr	of period	To wor	tal kers	
	Per	iod	Tota	days	Working days	No working days	Engineers		
Preparation	10 Jul., '02 -	~ 10 Jul., '02	0.	50	0.50		1	2.5	
Duilling	10 1.1 '02 -	. 10 1.1 202	1.4	20	Drilling : 1.00	_	2	5	
Drilling	10 Jul., 02 7	~ 10 Jul., '02	1.00		Accident: 0.00		0	0	
Dismount	10 Jul., '02 -	~ 10 Jul., '02	0.9	50	0.50	-	1	2.5	
Total	10 Jul., '02 ^	~ 10 Jul., '02	2.0	00	2.00	_	4	10	
			Drillin	ng Lengt	th				
Programmed I	ength	45.00 m	Ove	rburden	, sand & gravel, (	Quarternary	8.	80 m	
Prolongation		-33.00 m		Core	elength	,	8.	00 m	
Effective leng	th	12.00 m		Core	recovery		10	00.0 %	
	Workin	g hours			Core red	ore recovery by each 10 meters			
Drilling		5.0 hrs	62.5%	25.0%	Length (m)	Each (%)	Cumu	la. (%)	
Supplemental	drilling work	3.0 hrs	37.5%	15.0%	0 - 4.0	None core	None	core	
Recovery fron	n accident	-	_	-	4.0 - 12.0	100.0	100	).0	
Subtotal		8.0 hrs	100%	40.0%					
Preparation/s	etting up	4.0 hrs	_	20.0%					
Dismount/mol	oilization	4.0 hrs	-	20.0%					
Transportation	n of water	4.0 hrs	-	20.0%		Efficiency			
Others					Effective lengt	h / Working dri	lling days		
					= 12.00m/1 day	ys = 12.00 m/d			
					Effective lengt	h / Total drillin	g shifts =		
Total		20.0 hrs	<b>-</b> .	100%	= 34.00m/4 shi	ifts = 8.5 m/shi	ft		
		Dri	lling leng	th by di	ameter				
Bit diameter		4″TB	92m	mφ		•	To	tal	
Drilling length		4.00 m	8.00	0 m			12.0	00 m	
Core length		0.00 m	8.00	0 m			8.0	00 m	
		I	nserted	casing	pipes				
Inserted lengt	h by diameter	Inserted le	ngth / C	rilling le	ength	Casing recovery			
133mm $\phi$	3.00 m		25.00%	<b>,</b>	·	100%			

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-12)

		Survey period			Breakdow	n of period	4	tal kers
	Pei	riod	Tota	days	Working days	No working days	Engineers	T
Preparation	15 Aug., '02	~ 15 Aug., '02	0.0	31	0.03		0.125	0.3125
Drilling	15 Aug '02	~ 15 Aug., '02	0.4	20	Drilling : 0.44	_	1.75	4.375
Drilling	10 Aug., 02	- 13 Aug., 02	0.4		Accident: 0.00	_	0	0
Dismount	15 Aug., '02 -	~ 15 Aug., '02	0.0	31	0.03		0.125	0.3125
Total	15 Aug., '02 4	~ 15 Aug., '02	0.5	00	0.50	-	2	5
			Drillin	ng Lengt	th			
Programmed I	ength	45.00 m	Ove	rburden	, sand & gravel,	gravel, Quarternary 6.		
Prolongation		-16.00 m		Core	e length		23	.00 m
Effective leng	th	29.00 m		Core	recovery		11	00.0 %
	Workin	g hours			Core re	covery by each	10 meter	's
Drilling		5.0 hrs	71.4%	41.7%	Length (m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	2.0 hrs	28.6%	16.7%	0 - 10.0	None core	None	core
Recovery from	n accident	_	-	-	10.0 - 20.0	100.0	100	0.0
Subtotal		7.0 hrs	100%	58.3%	20.0 - 29.0	100.0	100	0.0
Preparation/s	etting up	0.5 hrs	_	4.2%				
Dismount/mol	bilization	0.5 hrs	_	4.2%				
Transportation	n of water	4.0 hrs	-	33.3%		Efficiency		
Others					Effective leng	th / Working dr	illing days	
					= 29.00m/0.43	375 days = 66.2	8m/d	
					Effective leng	th / Total drillir	ng shifts =	
Total		12.0 hrs	_	100%	= 29.00m/0.87	'5 shifts = 33.14	1 m/shift	
		Dri	lling leng	gth by d	iameter			
Bit diameter		4"TB	92m	mφ			То	tal
Drilling length		0.00 m	29.0	0 m			29.0	00 m
Core length		0.00 m	23.0	0 m		23.00 r		
		I	nserted	casing (	oipes			
Inserted lengt	h by diameter	Inserted le	ngth / [	Orilling le	ength	Casing re	covery	

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-13)

		Survey period	<del>.</del>		Breakdow	n of period		tal kers	
	Per	riod	Tota	l days	Working days	No working days	Engineers		
Preparation	27 Jul., '02	~27 Jul., '02	0.	25	0.25		1	2.5	
Drilling	27 Iul '02 -	~ 28 Jul., '02	1	50	Drilling : 1.50	_	6	15	
Drining	27Jul., 02 ~	- 26 Jul., UZ	1.	30	Accident: 0.00	_	0	0	
Dismount	28 Jul., '02 1	~ 28 Jul., '02	0.	25	0.25		1	2.5	
Total	27 Jul., '02 -	~ 28 Jul., '02	2.0	00	2.00	_	8	20	
			Drilli	ng Lengt	th				
Programmed I	ength	45.00 m	Ove	rburden	, sand & gravel,	Quarternary	Quarternary 8.00		
Prolongation		−3.00 m		Core	e length		34.00 r		
Effective leng	th	42.00 m		Core	erecovery	100.0			
	Workin	g hours		•	Core re	covery by each 10 meters			
Drilling		10.0 hrs	41.7%	26.3%	Length (m)	Each (%)	Cumu	la. (%)	
Supplemental	drilling work	14.0 hrs	58.3%	36.8%	0 - 7.0	None core	None	core	
Recovery from	n accident	-	-	-	7.0 – 10.0	100.0	100	0.0	
Subtotal		24.0 hrs	100%	63.2%	10.0 - 20.0	100.0	100	).0	
Preparation/s	etting up	4.0 hrs	-	10.5%	20.0 - 30.0	100.0	100	).0	
Dismount/mol	oilization	4.0 hrs	-	10.5%	30.0 - 42.0	100.0	100	).0	
Transportation	n of water	6.0 hrs	-	15.8%		Efficiency			
Others					Effective lengt	h / Working dr	illing days		
					= 42.00m/1.5 d	lays = 28.00 m	/d		
					Effective lengt	h / Total drillir	ng shifts =		
Total		38.0 hrs	_	100%	= 42.00m/3.0 s	shifts = 14.00 n	n/shift		
		Dri	lling leng	th by di	iameter				
Bit diameter		4″TB	92m	m $\phi$			То	tal	
Drilling length		0.00 m	42.0	0 m			42.0	00 m	
Core length		0.00 m	34.0	0 m		34.00 m			
		]	inserted	casing p	oipes				
Inserted lengt	h by diameter	Inserted le	ngth / C	rilling le	ength	Casing re	covery		
133mm <i>ф</i>	9.00 m		21.43%			100	%		

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-14)

		Survey period			Breakdo	wn of period	1	tal kers		
	Per	iod	Total	days	Working day	s No working days	Engineers			
Preparation	31 Jul., '02 -	~ 31 Jul., '02	0.0	06	0.0	6 –	0.25	0.625		
Drilling	21 1 '02 -	~ 31 Jul., '02	0.3	20	Drilling : 0.3	8 –	1.5	3.75		
Drilling	31 Jul., UZ	- 31 Jul., UZ	0	JO	Accident: 0.0	0 –	0	0		
Dismount	31 Jul., '02 ^	~ 31 Jul., '02	0.0	D <b>6</b>	0.0	6 –	0.25 0.62			
Total	31 Jul., '02 ~	~ 31 Jul., '02	0.9	50	0.5	0 —	2	5		
			Drillin	ng Lengt	th			•		
Programmed I	ength	45.00 m	Ove	rburden,	, sand & grave	l, Quarternary	8	.00 m		
Prolongation		3.00 m		Core	elength		40	.00 m		
Effective leng	th	48.00 m		Core	recovery		100.0			
	Workin	g hours			Core	ecovery by each 10 meters				
Drilling		4.0 hrs	66.7%	33.3%	Length (m)	Each (%)	Cumu	ıla. (%)		
Supplemental	drilling work	2.0 hrs	33.3%	16.7%	0 - 7.5	None core	None	core		
Recovery fron	n accident	-	-	-	7.5 - 10.0	100.0	10	0.0		
Subtotal		6.0 hrs	100%	50.0%	10.0 - 20.0	100.0	10	0.0		
Preparation/s	etting up	1.0 hrs	-	8.3%	20.0 - 30.0	100.0	10	0.0		
Dismount/mol	oilization	1.0 hrs	-	8.3%	30.0 - 40.0	100.0	10	0.0		
Transportation	of water	4.0 hrs	-	33.3%		Efficiency				
Others					Effective len	gth / Working dr	illing days			
					= 48.00m/0.3	375days = 128.0	m/d			
					Effective ler	gth / Total drilli	ng shifts =			
Total		12.0 hrs	-	100%	= 48.00m/0.0	65 shifts = 64.00	m/shift			
		Dri	lling leng	gth by d	iameter					
Bit diameter		4"TB	92m	m Ø			Тс	tal		
Drilling length		0.00 m	48.0	0 m			48.	00 m		
Core length		0.00 m	40.0	0 m		40.00 m				
			nserted	casing	pipes					
Inserted lengt	h by diameter	Inserted le	ngth / [	Orilling length Casing recovery			ecovery			

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-15)

		Survey period	j		Breakdow	of period		tal kers	
	Pei	riod	Tota	days	Working days	No working days	Engineers		
Preparation	1 Aug., '02 <sup>2</sup>	~ 1 Aug., '02	0.0	63	0.063	_	0.25	0.625	
Drilling	1 Aug '02	~ 1 Aug., '02	0.3	375	Drilling : 0.375	_	1.5	3.75	
Drilling	1 Aug., 02	~ 1 Aug., U2	0.3	375	Accident: 0.000	_	0	0	
Dismount	1 Aug., '02 1	~ 1 Aug., '02	0.0	63	0.063	_	0.25	0.625	
Total	1 Aug., '02 -	~ 1 Aug., '02	0.5	00	0.500	_	2	5	
			Drilli	ng Lengt	th				
Programmed l	ength	45.00 m	Ove	rburden	, sand & gravel, (	Quarternary	8	.00 m	
Prolongation		0.00 m		Core	elength		37.00 n		
Effective lengt	th	45.00 m		Core	recovery	100.0			
	Workin	g hours			Core red	recovery by each 10 meters			
Drilling		4.0 hrs	66.7%	33.3%	Length (m)	Each (%)	Cumu	la. (%)	
Supplemental	drilling work	2.0 hrs	33.3%	16.7%	0 - 7.0	None core	None	core	
Recovery from	n accident	-	-	-	7.0 – 10.0	100.0	100	).0	
Subtotal		6.0 hrs	100%	50.0%	10.0 - 20.0	100.0	100	0.0	
Preparation/s	etting up	1.0 hrs	-	8.3%	20.0 - 30.0	100.0	100	0.0	
Dismount/mob	oilization	1.0 hrs	-	8.3%	30.0 - 40.0	100.0	100	0.0	
Transportation	of water	4.0 hrs	_	33.3%		Efficiency			
Others					Effective lengt	n / Working dri	lling days		
,		·			= 45.00m/0.37	days = 120 m	ı/d		
					Effective lengtl	n / Total drillin	g shifts =		
Total		12.0 hrs	-	100%	= 45.00m/0.75	shifts = 60.0 m	/shift		
		Dri	lling leng	th by di	ameter				
Bit diameter		4"TB	92m	mφ			To	tal	
Drilling length		0.00 m	45.00	) m			45.0	00 m	
Core length		0.00 m	37.00	) m		37.00 m			
		I	nserted	casing p	pipes				
Inserted length	n by diameter	Inserted le	ngth / D	rilling le	gth Casing recovery				

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-16)

		Survey period	ı		Breakdow	n of period	Total workers		
	Pei	riod	Tota	l days	Working days	No working days	Engineers		
Preparation	14 Aug., '02 4	~ 14 Aug., '02	0.0	)31	0.031		0.125	0.3125	
Deilline	14 4 '00 -	. 14 A 200	0.188		Drilling : 0.188	<del>-</del>	0.75	1.875	
Drilling	14 Aug., UZ	~ 14 Aug., '02	0.1	88	Accident: 0.000		0	0	
Dismount	14 Aug., '02 -	~ 14 Aug., '02	0.031		0.031	_	0.125	0.3125	
Total	14 Aug., '02 ^	~ 14 Aug., '02	0.2	:50	0.250	_	1	2.5	
			Drilli	ng Lengt	th				
Programmed I	ength	gth 45.00 m Overburden, sand & gravel, Quarternary				5	.00 m		
Prolongation		-16.00 m		Core	e length		. 24	.00 m	
Effective leng	th	29.00 m		Core	recovery		11	00.0 %	
	Workin	g hours			Core re	covery by each	10 meter	rs	
Drilling		2.0 hrs	66.7%	33.3%	Length (m)	Each (%)	Cumula. (		
Supplemental	drilling work	1.0 hrs	33.3%	16.7%	0 5.0	None core	None	core	
Recovery from	n accident	_	_	_	5.0 - 10.0	100.0	100	0.0	
Subtotal		3.0 hrs	100%	50.0%	10.0 - 20.0 20.0 - 29.0	100.0 100.0	100		
Preparation/s	etting up	0.5 hrs	-	8.3%					
Dismount/mol	oilization	0.5 hrs	_	8.3%					
Transportation	of water	2.0 hrs	-	33.3%		Efficiency			
Others					Effective lengt	h / Working dri	lling days		
					= 29.00m/0.18	8 days = 154.6	7 m/d		
					Effective lengt	h / Total drillin	g shifts =		
Total		6.0 hrs	-	100%	= 29.00m/0.37	5 shifts = 77.33	3 m/shift		
		Dri	lling leng	gth by di	iameter				
Bit diameter		92mm φ					То	tal	
Drilling length		29.00 m					29.0	00 m	
Core length		24.00 m			2			00 m	
		I	nserted	casing p	pipes				
Inserted lengt	h by diameter	Inserted le	ngth / [	Orilling le	ength	Casing re	covery		

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-17)

		Survey period	]		Breakdowi	n of period	1	tal kers
	Per	riod	Tota	l days	Working days	No working days	Engineers	
Preparation	14 Aug., '02 -	~ 14 Aug., '02	0.0	31	0.031	_	0.125	0.3125
Drilling	14 A '02 -	~ 14 Aug., '02	0.1	00	Drilling : 0.188	_	0.75	1.875
Drilling	14 Aug., 02 -	~ 14 Aug., 02	0.188		Accident: 0.000	_	0	0
Dismount	14 Aug., '02 -	~ 14 Aug., '02	0.0	31	0.031		0.125	0.3125
Total	14 Aug., '02 ~	~ 14 Aug., '02	0.2	:50	0.250		1	2.5
			Drillin	ng Lengt	th			
Programmed I	ength	45.00 m	Ove	rburden	sand & gravel,	Quarternary	3	.00 m
Prolongation		-20.00 m		Core	elength		22	.00 m
Effective leng	th	25.00 m		Core	recovery		10	0.00 %
	Workin	g hours			Core re	re recovery by each 10 meters		
Drilling		2.0 hrs	66.7%	33.3%	Length (m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	1.0 hrs	33.3%	16.7%	0 - 3.0	None core	None	core
Recovery from	n accident	_	-	-	3.0 - 10.0	100.0	100	
Subtotal	,	3.0 hrs	100%	50.0%	10.0 - 20.0 20.0 - 25.0	100.0 100.0	100 100	
Preparation/s	etting up	0.5 hrs	-	8.3%				
Dismount/mol	oilization	0.5 hrs	-	8.3%				
Transportation	n of water	2.0 hrs	-	33.3%		Efficiency		
Others					Effective lengt	h / Working dri	lling days	
					= 25.00m/0.18	8 days = 133.33	3 m/d	
					Effective lengt	h / Total drillin	g shifts =	
Total		6.0 hrs		100%	= 25.00m/0.37	5 shifts = 66.67	m/shift	
		Dri	lling leng	gth by di	ameter			
Bit diameter		92mm $\phi$				'	To	tal
Drilling length		25.00 m					25.0	00 m
Core length		22.00 m				22.00 n		
		I	nserted	casing p	pipes			
Inserted lengt	h by diameter	Inserted le	ngth / [	Orilling le	ength	Casing re	covery	

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-18)

		Survey period			Breakdowr	of period		
	Per	iod	Total	days	Working days	No working days		
Preparation	14 Aug., '02 -	~ 14 Aug., '02	0.0	31	0.031		0.125	0.3125
Drilling	14 Aug '02 a	~ 14 Aug., '02	0.1	00	Drilling : 0.188	_	wo   Engineer   0.125   0.75   0   0.125   1   13   14   15   15   16   16   16   16   16   16	1.875
Drilling	14 Aug., 02 ·	- 14 Aug., 02			Accident: 0.000	_	0.75   1.8   0   0   1.25   0.3   1   2   2   4.00   13.00   100.0   100.0   100.0   100.0   100.0   100.0   100.0   17.00   n   13.00   n	0
Dismount	14 Aug., '02 -	~ 14 Aug., '02	0.0	31	0.031		0.125	0.3125
Total	14 Aug., '02 ^	~ 14 Aug., '02	0.2	50	0.250	_	1	2.5
			Drillir	ng Lengt	:h			
Programmed I	ength	45.00 m	Ove	rburden,	, sand & gravel, (	Quarternary	4	.00 m
Prolongation		−28.00 m		Core	elength		13	.00 m
Effective leng	th	17.00 m		Core	recovery		11	00.0 %
	Workin	g hours			Core red	ore recovery by each 10 meters		
Drilling		2.0 hrs	66.7%	33.3%	Length (m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	1.0 hrs	33.3%	16.7%	0 - 1.0	None core	None	core
Recovery from	n accident	-	_	-	1.0 - 10.0	100.0		
Subtotal		3.0 hrs	100%	50.0%	10.0 - 17.0	100.0	100	0.0
Preparation/s	etting up	0.5 hrs	_	8.3%			.,	
Dismount/mol	bilization	0.5 hrs	_	8.3%				
Transportation	n of water	2.0 hrs	-	33.3%		Efficiency		
Others					Effective lengt	h / Working dri	lling days	
					= 17.00m/0.188	3 days = 96.0 n	n/d	
					Effective lengt	h / Total drillin	g shifts =	
Total		6.0 hrs	-	100%	= 17.00m/0.37	5 shifts = 48.0	m/shift	
	•	Dri	lling leng	th by di	ameter			
Bit diameter		92mm φ					То	tal
Drilling length		17.00 m					17.0	00 m
Core length		13.00 m					13.0	00 m
		I	nserted	casing p	oipes			
Inserted lengt	h by diameter	Inserted le	ngth / [	Drilling length Casing recovery			covery	
							·	

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-19)

		Survey period	 	<del>,</del>	Breakdow	n of period	I .	tal kers
	Per	riod	Tota	days	Working days	No working days	Engineers	
Preparation	14 Aug., '02 -	~ 14 Aug., '02	0.0	31	0.031	_	0.125	0.3125
D.:90:	14.4	. 14 A '00	0.1	00	Drilling : 0.188	_	0.75	1.875
Drilling	14 Aug., UZ 7	~ 14 Aug., '02	0.188		Accident: 0.000	_	0	0
Dismount	14 Aug., '02 -	~ 14 Aug., '02	0.0	31	0.031		0.125	0.3125
Total	14 Aug., '02 -	~ 14 Aug., '02	0.2	50	0.250	_	1	2.5
			Drillin	ng Lengt	:h			
Programmed l	ength	45.00 m	Ove	rburden,	sand & gravel,	Quarternary	1	.00 m
Prolongation		−26.00 m		Core	elength		18	.00 m
Effective leng	th	19.00 m		Core	recovery		10	00.0 %
	Workin	g hours			Core re	re recovery by each 10 meters		
Drilling		2.0 hrs	66.7%	33.3%	Length (m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	1.0 hrs	33.3%	16.7%	0 - 1.0	None core	None	core
Recovery from	n accident	<del>-</del>	-	-	1.0 - 10.0	100.0	100	).0
Subtotal		3.0 hrs	100%	50.0%	10.0 - 19.0	100.0	100	0.0
Preparation/s	etting up	0.5 hrs	-	8.3%				
Dismount/mol	oilization	0.5 hrs	-	8.3%				
Transportation	of water	2.0 hrs	-	33.3%		Efficiency		
Others					Effective lengt	h / Working dri	lling days	
					= 19.00m/0.18	8 days = 101.33	3 m/d	
					Effective lengt	h / Total drillin	g shifts =	
Total		6.0 hrs	_	100%	= 19.00m/0.37	5 shifts = 50.67	m/shift	
		Dri	lling leng	gth by di	ameter			
Bit diameter		92mm $\phi$					То	tal
Drilling length		19.00 m					19.0	00 m
Core length		18.00 m				18.00 m		
		I	nserted	casing p	pipes			
Inserted lengt	h by diameter	Inserted le	ngth / [	rilling le	g length Casing recovery			

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-20)

		Survey period			Breakdow	n of period	1	tal kers
	Per	iod	Total	days	Working days	No working days	Engineers	
Preparation	7 Aug., '02 -	~ 7 Aug., '02	0.0	31	0.031		0.125	0.3125
Drilling	7 Aug '02 a	~ 7 Aug., '02	0.4	20	Drilling : 0.438		1.75	4.375
Drining	7 Aug., 02 ·	~ / Aug., UZ	0.4	-30	Accident: 0.000	_	0	0
Dismount	7 Aug., '02 -	~ 7 Aug., '02	0.0	31	0.031	_	0.125	0.3125
Total	7 Aug., '02 -	~ 7 Aug., '02	0.5	00	0.500	_	2	5
			Drillir	ng Lengt	h			
Programmed I	ength	45.00 m	Ove	rburden,	sand & gravel,	Quarternary	8	.00 m
Prolongation		−33.00 m		Core	elength		4	.00 m
Effective leng	th	12.00 m		Core	recovery		1	00.0 %
	Workin	g hours			Core re	covery by each	10 meter	rs
Drilling		5.0 hrs	71.4%	50.0%	Length (m)	Each (%)	Cumu	ıla. (%)
Supplemental	drilling work	2.0 hrs	28.6%	20.0%	0 - 9.0	None core	None	core
Recovery from	n accident	•		-	9.0 - 12.0	100.0	100	0.0
Subtotal		7.0 hrs	100%	70.0%				
Preparation/s	etting up	0.5 hrs	_	5.0%				
Dismount/mol	bilization	0.5 hrs	-	5.0%				
Transportation	n of water	2.0 hrs	-	20.0%		Efficiency		
Others					Effective lengt	h / Working dri	illing days	
					= 12.00m/0.43	75 days = 27.4	3 m/d	
					Effective lengt	h / Total drillin	ng shifts =	
Total		10.0 hrs	-	100%	= 12.00m/0.87	5 shifts = 13.71	l m/shift	
		Dri	lling len	gth by d	iameter			
Bit diameter		92mm $\phi$					То	tal
Drilling length		12.00 m					12.	00 m
Core length 3.00 m				3.	00 m			
		]	Inserted	casing	pipes			
Inserted lengt	h by diameter	Inserted le	ngth / [	Orilling le	ength	Casing re	covery	

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-21)

		Survey period	<u> </u>		Breakdowr	of period			
	Per	iod	Total	days	Working days	No working days			
Preparation	7 Aug., '02 -	~ 7 Aug., '02	0.0	31	0.031	-	0.125	0.3125	
D.::::	7 A '00 -	. 7 A '00		20	Drilling : 0.438	-	1.75 0 0.125 2 5.0 13.0 100 100 100 100 100 100 100 1100 1	4.375	
Drilling	/ Aug., 02 ^	~ 7 Aug., '02	0.4	-38	Accident: 0.000	_	0	0	
Dismount	7 Aug., '02 -	~ 7 Aug., '02	0.031		0.031	_	0.125	0.3125	
Total	7 Aug., '02 <b>^</b>	~ 7 Aug., '02	0.5	00	0.500	_	2	5	
			Drillir	ng Lengt	th				
Programmed I	ength	45.00 m	Ove	rburden	, sand & gravel, (	Quarternary	5	.00 m	
Prolongation		−27.00 m		Core	elength		13.00 m		
Effective leng	th	18.00 m		Core	recovery		11	00.0 %	
	Workin	g hours			Core red	Core recovery by each 10 meters			
Drilling		5.0 hrs	71.4%	50.0%	Length (m)	Each (%)	Cumu	la. (%)	
Supplemental	drilling work	2.0 hrs	28.6%	20.0%	0 - 5.0	None core	None	core	
Recovery from	n accident	_	-	-	5.0 - 10.0	100.0	100	0.0	
Subtotal		7.0 hrs	100%	70.0%	10.0-18.0	100.0	100	0.0	
Preparation/s	etting up	0.5 hrs	-	5.0%					
Dismount/mol	oilization	0.5 hrs	_	5.0%					
Transportation	n of water	2.0 hrs	-	20.0%		Efficiency			
Others					Effective lengt	h / Working dri	lling days		
					= 18.00m/0.43	75 days = 41.14	43 m/d		
					Effective lengt	h / Total drillin	g shifts =		
Total		10.0 hrs	_	100%	= 18.00m/0.87	5 shifts = 20.57	m/shift		
		Dri	lling len	gth by d	iameter				
Bit diameter		92mm φ					То	tal	
Drilling length		18.00 m					18.0	00 m	
Core length		13.00 m				13.00			
			Inserted	casing	pipes				
Inserted length by diameter Inserted			ength / [	Orilling le	ength	Casing re	covery		

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-22)

		Survey period	l		Breakdow	of period	l l	tal kers
	Per	riod	Tota	days	Working days	No working days	Engineers	
Preparation	6 Aug., '02 -	~ 6 Aug., '02	0.0	03	0.03	_	0.125	0.3125
Drilling	6 4 '02 4	∼ 6 Aug., '02	0.:	25	Drilling : 0.25	-	1	2.5
Drilling	0 Aug., 02	• 0 Aug., 02	0.,	20	Accident: 0.00		0	0
Dismount	6 Aug., '02 <b>-</b>	~ 6 Aug., '02	0.03		0.03		0.125	0.3125
Total	6 Aug., '02 -	~ 6 Aug., '02	0.:	31	0.31		1.25	3.125
			Drillin	ng Lengt	h			
Programmed I	ength	45.00 m	Ove	rburden	sand & gravel,	Quarternary	7	.50 m
Prolongation		−37.00 m		Core	elength		3	.00 m
Effective leng	th	8.00 m		Core	recovery		11	00.0 %
	Workin	ng hours	;		Core re	covery by each	10 meter	rs .
Drilling		3.0 hrs	75.0%	42.9%	Length (m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	1.0 hrs	25.0%	14.3%	0 - 5.0	None core	None	core
Recovery from	n accident	-	_	-	5.0 - 8.0	100.0	100	0.0
Subtotal		4.0 hrs	100%	57.1%				
Preparation/s	etting up	0.5 hrs	_	7.1%				
Dismount/mol	bilization	0.5 hrs	-	7.1%				
Transportation	n of water	2.0 hrs	-	28.6%	Efficiency			
Others					Effective lengt	h / Working dr	illing days	-
					= 8.00m/0.25 d	days = 32.00 m	/d	
					Effective lengt	h / Total drillir	ng shifts =	
Total		7.0 hrs	-	100%	= 8.00m/0.50 s	shifts = 16.00 n	n/shift	
		Dri	lling len	gth by d	iameter			
Bit diameter		4″TB	92m	ım $\phi$			То	tal
Drilling length		0.00 m	8.0	0 m			8.0	00 m
Core length		0.00 m	3.0	0 m			3.0	00 m
		]	Inserted	casing	pipes			
Inserted lengt	h by diameter	Inserted le	ngth / [	Orilling le	ength	Casing re	covery	

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-23)

		Survey period		<u> </u>	Breakdow	n of period	Total workers		
	Per	iod	Total	days	Working days	No working days	Engineers		
Preparation	6 Aug., '02 -	~ 6 Aug., '02	0.0	03	0.03	_	0.125	0.3125	
D.::::	6 A '00 -	. 6 A '00	٠,	31	Drilling : 0.31		1.25	3.125	
Drilling	0 Aug., 02 7	← 6 Aug., '02	0.31		Accident: 0.00	_	0	0	
Dismount	6 Aug., '02 ^	- 6 Aug., '02	0.0	03	0.03	_	0.125	0.3125	
Total	6 Aug., '02 ^	~ 6 Aug., '02	0.0	38	0.38	_	1.5	3.75	
			Drillir	ng Lengt	:h				
Programmed I	ength	45.00 m	Ove	rburden,	sand & gravel,	Quarternary	5	.00 m	
Prolongation	on -30.00 m			Core	elength		8	.00 m	
Effective leng	th .		Core	recovery		11	00.0 %		
	Workin	g hours			Core re	covery by each	10 meter	rs	
Drilling		4.0 hrs			Length (m)	Each (%)	Cumu	la. (%)	
Supplemental	drilling work	1.0 hrs	20.0%	12.5%	0 - 6.0	None core	None	core	
Recovery fron	n accident	_		-	6.0 - 10.0 100.0		100.0		
Subtotal		5.0 hrs	100%	62.5%	10.0 - 15.0 100.0		100	0.0	
Preparation/s	etting up	0.5 hrs	-	6.3%					
Dismount/mol	bilization	0.5 hrs	_	6.3%					
Transportation	n of water	2.0 hrs	-	25.0%	Efficiency				
Others					Effective lengt	h / Working dri	illing days		
					= 15.00m/0.31	25 days = 38.4	0 m/d		
		-			Effective lengt	h / Total drillin	g shifts =		
Total		8.0 hrs	_	100%	= 15.00m/0.625shifts = 19.20 m/shift				
		Dri	lling len	th by d	iameter				
Bit diameter		4"TB	92m	mφ			То	tal	
Drilling length		0.00 m	15.0	0 m			15.0	00 m	
Core length		0.00 m	8.0	0 m			8.0	00 m	
		1	nserted	casing (	pipes				
Inserted lengt	nserted length by diameter Inserted length by diameter			ength / Drilling length		Casing re	covery		
						<u></u> -			

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-24)

		Survey period	l		Break	dowr	of period	Total workers	
	Per	riod	Tota	l days	Working da	ays	No working days	Engineers	
Preparation	6 Aug., '02 ·	~ 6 Aug., '02	0.0	03	0	.03	_	0.125	0.3125
Drilling	6 Aug '02 a	~ 6 Aug., '02	0.19		Drilling : 0	.19		0.75	1.875
Drilling	0 Aug., 02	• 0 Aug., 02			Accident: 0	.00	<u> </u>	0	0
Dismount	6 Aug., '02 -	~ 6 Aug., '02	0.0	03	0	.03	_	0.125	0.3125
Total	6 Aug., '02 4	~ 6 Aug., '02	0.2	25	0	.25		1	2.5
			ng Lengt	th					
Programmed length 45.00 m Overt					, sand & grav	vel, (	Quarternary	10	.00 m
Prolongation	gation -33.00 m			Core	e length			2	.00 m
Effective lengt	th	12.00 m		Core	recovery			1	00.0 %
	Workin	ng hours			Core	e red	covery by each	10 meter	s
Drilling		3.0 hrs	75.0%	42.9%	Length (n	n)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	1.0 hrs	25.0%	14.3%	0 – 4.	0	None core	None	core
Recovery from	accident	-	_	-	4.0 - 10.	1	100.0	100	
Subtotal		4.0 hrs	100%	57.1%	10.0 - 12	.0	100.0	100	0.0
Preparation/s	etting up	0.5 hrs	_	7.1%					
Dismount/mot	oilization	0.5 hrs	-	7.1%					
Transportation	of water	2.0 hrs	-	28.6%	Efficiency				
Others					Effective le	engtl	h / Working dri	lling days	
					= 12.00m/0	0.312	25 days = 38.40	) m/d	
					Effective length / Total drilling shifts =				
Total		7.0 hrs	_	100%	= 12.00m/0.625shifts = 19.20 m/shift				
		Dri	lling len	gth by d	iameter				
Bit diameter	!	4"TB	92m	ım Ø				То	tai
Drilling length		0.00 m	12.0	0 m				12.0	00 m
Core length		0.00 m	8.0	0 m				8.0	00 m
		]	nserted	casing	pipes				
Inserted lengt	ength / Drilling leng		ength		Casing re	covery			

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-25)

		Survey period	<del></del>		Breakdowr	of period	Total workers	
	Per	iod	Tota	days	Working days	No working days	Engineers	
Preparation	13 Aug., '02 -	~ 13 Aug., '02	0.0	31	0.03	_	0.125	0.3125
Drilling	12 A '02 -	~ 13 Aug., '02	0.4	20	Drilling : 0.44	-	1.75	4.375
Drining	13 Aug., 02 -	* 13 Aug., UZ	0.438		Accident: 0.00		0	0
Dismount	13 Aug., '02 -	~ 13 Aug., '02	0.0	31	0.03	_	0.125	0.3125
Total	13 Aug., '02 -	~ 13 Aug., '02	0.5	00	0.50	-	2	5
			Drillin	ng Lengt	th			
Programmed le	ength	_	Ove	rburden	, sand & gravel, (	Quarternary	2	.00 m
Prolongation	ation –			Core	e length		27	.00 m
Effective lengt	th		Core	recovery		10	00.0 %	
	Workin	g hours			Core red	covery by each	10 meter	rs
Drilling		5.0 hrs	71.4%	41.7%	Length (m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	2.0 hrs	28.6%	16.7%	0 - 10.0	None core	None	core
Recovery from	accident	<del></del>	_	_	10.0 - 20.0	100.0	100	).0
Subtotal		7.0 hrs	100%	58.3%	20.0 - 29.0	100.0	100	).0
Preparation/se	etting up	0.5 hrs	_	4.2%				
Dismount/mob	oilization	0.5 hrs	-	4.2%				
Transportation	of water	4.0 hrs	-	33.3%	Efficiency			
Others					Effective length / Working drilling days			
					= 29.00m/0.437	75 days = 66.28	Bm/d	
					Effective lengtl	n / Total drillin	g shifts =	
Total		12.0 hrs	_	100%	= 29.00m/0.875	5 shifts = 33.14	m/shift	
		Dril	ling leng	th by di	ameter			
Bit diameter		4"TB	92m	mφ			To	tal
Drilling length		0.00 m	29.00	) m			29.0	00 m
Core length	Core length 0.00 m			) m			27.0	00 m
		I	nserted	casing p	oipes			
Inserted length	nserted length by diameter Inserted le			rilling le	ength	Casing re	covery	
<u> </u>						····		

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-26)

		Survey period	·		Breakdow	n of period		tal kers	
	Per	iod	Total	days	Working days	No working days	Engineers		
Preparation	13 Aug., '02 ~	~ 13 Aug., '02	0.0	31	0.03	-	0.125	0.3125	
	40.4 100	40.4 100	0.438		Drilling : 0.44	_	1.75	4.375	
Drilling	13 Aug., '02 ~	3 Aug., U2			Accident: 0.00	_	0	0	
Dismount	13 Aug., '02 ~	~ 13 Aug., '02	0.0	31	0.03	-	0.125	0.3125	
Total	13 Aug., '02 ~	~ 13 Aug., '02	0.5	00	0.50	-	2	5	
Drilling Length									
Programmed I	ength	-	Ove	rburden,	, sand & gravel,	Quarternary	4	.00 m	
Prolongation			Core	elength		23	.00 m		
Effective leng	th	27.00 m		Core	recovery		1	00.0 %	
	Workin	g hours			Core re	ecovery by each	n 10 mete	rs	
Drilling		5.0 hrs	71.4%	50.0%	Length (m)	Each (%)	Cumu	ıla. (%)	
Supplemental	drilling work	2.0 hrs	28.6%	20.0%	0 - 10.0	None core	None	core	
Recovery from	m accident	***	-	_	10.0 - 20.0	100.0		0.0	
Subtotal		7.0 hrs	100%	70.0%	20.0 - 27.0	0 100.0 100		0.0	
Preparation/s	setting up	0.5 hrs	-	5.0%					
Dismount/mo	bilization	0.5 hrs	-	5.0%					
Transportatio	n of water	2.0 hrs	-	20.0%	Efficiency				
Others					Effective leng	th / Working dr	illing days		
					= 27.00m/0.4	375 days = 61.7	1m/d		
					Effective leng	th / Total drilli	ng shifts =	:	
Total		10.0 hrs	-	100%	= 27.00m/0.875 shifts = 30.86 m/shift				
		Dri	illing len	gth by d	liameter				
Bit diameter		4″TB	92m	$nm \phi$			To	otal	
Drilling length	1	0.00 m	27.0	0 m			27.	00 m	
Core length		0.00 m	23.0	0 m			23.	00 m	
			Inserted	casing	pipes				
Inserted leng	ength / Drilling length		ength	Casing r	ecovery				

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-27)

		Survey period			Breakdow	n of period	Total workers	
	Per	iod	Tota	l days	Working days	No working days	Engineers	
Preparation	22 Aug., '02 -	~ 22 Aug., '02	0.031		0.03	_	0.125	0.3125
Drilling	22 Aug '02 a	~ 22 Aug., '02	0.438		Drilling : 0.44	_	1.75	4.375
Drilling	22 Aug., 02 P	~ 22 Aug., UZ			Accident: 0.00	_	0	0
Dismount	22 Aug., '02 -	~ 22 Aug., '02	0.0	31	0.03	_	0.125	0.3125
Total	22 Aug., '02 -	~ 22 Aug., '02	0.5	00	0.50		2	5
			Drillin	ng Lengt	th			
Programmed I	ength		Ove	rburden	, sand & gravel,	Quarternary	5	.00 m
Prolongation		_		Core	elength		1	.00 m
Effective leng	th	6.00 m		Core	recovery		1	00.0 %
	Workin	g hours			Core re	covery by each	10 mete	rs
Drilling		5.0 hrs	71.4%	50.0%	Length (m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	2.0 hrs	28.6%	20.0%	0 - 5.0	None core	None	core
Recovery from	n accident	-	-	-	5.0 - 6.0	100.0	100	0.0
Subtotal		7.0 hrs	100%	70.0%				
Preparation/s	etting up	0.5 hrs	-	5.0%				
Dismount/mol	bilization	0.5 hrs	_	5.0%				
Transportation	n of water	2.0 hrs	-	20.0%	Efficiency			
Others					Effective leng	th / Working dri	lling days	
					= 6.00m/0.437	/5 days = 13.71ı	m/d	
					Effective lengt	th / Total drillin	g shifts =	
Total		10.0 hrs		100%	= 6.00m/0.875	shifts = 6.86 m	n/shift	
		Dri	lling leng	gth by di	iameter			
Bit diameter		4″TB	92m	mφ			То	tal
Drilling length		0.00 m	6.00	0 m			6.0	00 m
Core length		0.00 m	5.00	0 m			5.0	00 m
		I	nserted	casing p	oipes			
Inserted length by diameter Inserted length by diameter			ength / Drilling lengt		ength	Casing re	covery	

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-28)

		Survey period			Brea	kdowr	of period	Total workers	
	Per	riod	Tota	l days	Working	days	No working days	Engineers	
Preparation	16 Aug., '02 -	~ 16 Aug., '02	0.0	0.031		0.03	_	0.125	0.3125
Drilling	16 Aug '02 a	~ 16 Aug., '02	0.4	138	Drilling :	0.44	_	1.75	4.375
Drining	10 Aug., 02	- 10 Aug., 02			Accident:	0.00	-	0	0
Dismount	16 Aug., '02 -	~ 16 Aug., '02	0.0	31		0.03		0.125	0.3125
Total	16 Aug., '02 1	~ 16 Aug., '02	0.5	000		0.50		2	5
			Drilli	ng Lengt	:h				
Programmed I	ength	_	Ove	rburden	sand & gr	avel, (	Quarternary	10	00 m
Prolongation		<del>-</del>		Core	elength			5	00 m
Effective leng	th	15.00 m		Core	recovery			10	00.0 %
	Workin	g hours			Co	re rec	covery by each	10 meter	s
Drilling	5.0 hrs		71.4%	50.0%	Length	(m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	2.0 hrs	28.6%	20.0%	0 – 1	0.0	None core	None	core
Recovery fron	n accident		_	-	10.0 - 1	5.0	100.0	100	).0
Subtotal		7.0 hrs	100%	70.0%					
Preparation/s	etting up	0.5 hrs	_	5.0%					
Dismount/mot	oilization	0.5 hrs	-	5.0%					
Transportation	of water	2.0 hrs	-	20.0%	Efficiency				
Others					Effective	length	n / Working dri	lling days	
					= 15.00m	/0.437	75 days = 34.29	m/d	
					Effective	length	n / Total drillin	g shifts =	
Total		10.0 hrs	_	100%	= 15.00m	/0.875	5 shifts = 17.14	m/shift	
		Dri	lling leng	gth by di	ameter				
Bit diameter		4"TB	92m	m $\phi$				To	tal
Drilling length		0.00 m	15.00	0 m				15.0	00 m
Core length	Core length 0.00 m							5.0	00 m
		I	nserted	casing p	pipes				
Inserted lengt	nserted length by diameter Inserted length by diameter				ength	\$	Casing re	covery	

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-29)

		Survey period	j		Breakdov	vn of period		otal kers
	Per	riod	Tota	l days	Working days	No working days	Engineers	
Preparation	17 Aug., '02 ·	~ 17 Aug., '02	0.0	031	0.03		0.125	0.3125
Drilling	17 Aug '02	~ 17 Aug., '02	0.4	138	Drilling : 0.44	_	1.75	4.375
Drining	17 Aug., 02 2	♥ 17 Aug., U2	0.4	138	Accident: 0.00	_	0	0
Dismount	17 Aug., '02 -	~ 17 Aug., '02	0.0	031	0.03	_	0.125	0.3125
Total	17 Aug., '02 -	~ 17 Aug., '02	0.5	500	0.50	_	2	5
			Drilli	ng Leng	th			
Programmed I	ength	-	Ove	rburden	, sand & gravel,	Quarternary	10	.00 m
Prolongation	gation –			Core	e length		11	.00 m
Effective leng	th	20.00 m		Core	recovery		11	00.0 %
	Working hours				Core re	ecovery by each	10 meter	rs .
Drilling		5.0 hrs	71.4%	50.0%	Length (m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	2.0 hrs	28.6%	20.0%	0 - 9.0	None core	None	core
Recovery fron	n accident	_	-	-	9.0 - 10.0	100.0	100	0.0
Subtotal		7.0 hrs	100%	70.0%	10.0 - 20.0	100.0	100	0.0
Preparation/s	etting up	0.5 hrs	-	5.0%				
Dismount/mot	oilization	0.5 hrs	-	5.0%				
Transportation	of water	2.0 hrs	-	20.0%		Efficiency		
Others					Effective leng	th / Working dri	lling days	
				·	= 20.00m/0.43	375 days = 45.71	m/d	
					Effective leng	th / Total drillin	g shifts =	
Total		10.0 hrs	_	100%	= 20.00m/0.87	75 shifts = 22.86	m/shift	
		Dril	lling leng	gth by di	ameter			
Bit diameter		4″TB	92m	mφ			To	tal
Drilling length		0.00 m	20.00	0 m			20.0	00 m
Core length		0.00 m	11.00	) m			11.0	00 m
		<u> </u>	nserted	casing p	pipes			
Inserted lengti	h by diameter	Inserted le	ngth / C	Prilling le	ength	Casing re	covery	

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-30)

		Survey period			Breakdowr	of period		tal kers
	Per	iod	Tota	days	Working days	No working days	Engineers	
Preparation	18 Aug., '02 -	~ 18 Aug., '02	0.0	31	0.03	_	0.125	0.3125
Drilling	18 Διισ '02 σ	~ 18 Aug., '02	0.4	38	Drilling : 0.44	****	1.75	4.375
Drining	10 Aug., 02 ·	* 10 Aug., 02	0.4		Accident: 0.00		0	0
Dismount	18 Aug., '02 -	~ 18 Aug., '02	0.0	31	0.03	_	0.125	0.3125
Total	18 Aug., '02 -	~ 18 Aug., '02	0.5	00	0.50	_	2	5
			Drillin	ng Lengt	:h			
Programmed I	ength	-	Ove	rburden	sand & gravel, (	Quarternary	9	.00 m
Prolongation		••		Core	elength		19	.00 m
Effective leng	th	19.00 m		Core	recovery		1	00.0 %
	Workin	g hours			Core red	covery by each	10 metei	's
Drilling		5.0 hrs	71.4%	50.0%	Length (m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	2.0 hrs	28.6%	20.0%	0 – 9.0	None core	None	core
Recovery from	n accident	-	-	_	9.0 - 10.0			0.0
Subtotal		7.0 hrs	100%	70.0%	10.0 - 19.0	100.0	100	0.0
Preparation/s	etting up	0.5 hrs	-	5.0%				
Dismount/mol	bilization	0.5 hrs	-	5.0%				
Transportation	n of water	2.0 hrs	-	20.0%	Efficiency			
Others					Effective lengt	h / Working dr	illing days	
					= 19.00m/0.43	75 days = 22.8	6m/d	
					Effective lengt	h / Total drillir	ng shifts =	
Total		10.0 hrs	-	100%	= 19.00m/0.87	5 shifts = 11.43	3 m/shift	
		Dri	lling len	gth by d	ameter			
Bit diameter		4″TB	92m	m $\phi$			То	tal
Drilling length		0.00 m	19.0	0 m			19.	00 m
Core length		0.00 m	10.0	0 m			10.0	00 m
		1	nserted	casing	oipes			
Inserted lengt	Inserted length by diameter Inserted I				ength	Casing re	covery	

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-31)

		Survey period	]		Breakdowr	of period	Total workers	
	Per	riod	Tota	days	Working days	No working days	Engineers	
Preparation	18 Aug., '02 -	~ 18 Aug., '02	0.1	25	0.13	_	0.5	1.25
D.:10:	10 A 200 -	. 10 4 '00		EO	Drilling : 0.75	_	3	7.5
Drilling	18 Aug., UZ 7	~ 19 Aug., '02	0.7	50	Accident: 0.00	_	0	0
Dismount	19 Aug., '02 c	~ 19 Aug., '02	0.1	25	0.13	_	0.5	1.25
Total	18 Aug., '02 -	~ 19 Aug., '02	1.0	00	1.00	_	4	10
			Drillin	ng Lengt	:h			
Programmed I	ength	_	Ove	rburden	sand & gravel, (	Quarternary	9	.50 m
Prolongation	gation –			Core	elength		9	.50 m
Effective leng	th	19.00 m		Core	recovery		11	00.0 %
	Workin	g hours			Core red	covery by each	10 meter	's
Drilling		8.0 hrs	66.7%	36.4%	Length (m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	4.0 hrs	33.3%	18.2%	0 - 9.5	None core	None	core
Recovery from	n accident	-	-	_	9.5 - 10.0	100.0	100.0	
Subtotal		12.0 hrs	100%	54.5%	10.0 - 19.0	100.0	100	).0
Preparation/s	etting up	2.0 hrs	-	9.1%				
Dismount/mol	oilization	2.0 hrs	-	9.1%				
Transportation	of water	6.0 hrs	-	27.3%		Efficiency		
Others					Effective lengt	n / Working dri	lling days	
					= 19.00m/0.75	days = 25.33m	/d	
					Effective lengt	n / Total drillin	g shifts =	
Total		22.0 hrs	_	100%	= 19.00m/1.50	shifts = 12.67	m/shift	<u>.                                  </u>
		Dri	lling leng	th by di	ameter			
Bit diameter		4"TB	92m	m $\phi$			То	tal
Drilling length		0.00 m	19.00	) m			19.0	00 m
Core length		0.00 m	9.50 m			9.5	50 m	
		1	nserted	casing p	pipes			
Inserted lengt	ength / Drilling lengt		ength	Casing re	covery			

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-32)

		Survey period			Breakdowr	of period	1	tal kers
	Per	iod	Total	days	Working days	No working days	Engineers	
Preparation	19 Aug., '02 ~	~ 19 Aug., '02	0.1	25	0.13	-	0.5	1.25
D.:::	10 4 '02 -	. 20 4 '02	0.7	EΩ	Drilling : 0.75		3	7.5
Drilling	19 Aug., UZ ~	~ 20 Aug., '02	0.750		Accident: 0.00	-	0	0
Dismount	20 Aug., '02 ~	~ 20 Aug., '02	0.1	25	0.13		0.5	1.25
Total	19 Aug., '02 ~	~ 20 Aug., '02	1.0	00	1.00	_	4	10
			Drillir	ng Lengt	h			
Programmed I	ength	_	Ove	rburden,	sand & gravel,	Quarternary	8	.00 m
Prolongation			Core	e length		7	.00 m	
Effective leng	th		Core	recovery		1	00.0 %	
	Workin	g hours			Core re	covery by each	10 mete	'S
Drilling	8.0 hrs		66.7%	40.0%	Length (m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	4.0 hrs	33.3%	20.0%	0 – 8.0	None core	None	core
Recovery from	n accident	_	-	-	8.0 - 10.0			0.0
Subtotal		12.0 hrs	100%	60.0%	10.0 - 15.0	100.0	100	0.0
Preparation/s	etting up	2.0 hrs	-	10.0%			<u> </u>	
Dismount/mo	bilization	2.0 hrs	-	10.0%				
Transportatio	n of water	4.0 hrs	-	20.0%	Efficiency			
Others					Effective lengt	h / Working dr	illing days	
					= 15.00m/0.75	days = 20.00m	n/d	
					Effective lengt	h / Total drillir	ng shifts =	
Total		20.0 hrs	_	100%	= 15.00m/1.50	shifts = 10.00	m/shift	
		Dri	illing len	gth by d	iameter		_	
Bit diameter	•	4″TB	92m	ım $\phi$			To	tal
Drilling length		0.00 m	15.0	0 m			15.	00 m
Core length		0.00 m	7.0	0 m			7.	00 m
			Inserted	casing	pipes			
Inserted leng	ength / Drilling length		ength	Casing re	ecovery			

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-33)

		Survey period			Breakdow	n of period		tal kers
	Per	iod	Total	days	Working days	No working days	Engineers	
Preparation	21 Aug., '02 -	~ 21 Aug., '02	0.0	31	0.03	i	0.125	0.3125
D.:III:	21 A '02 -	. 01 A 100	0.4	20	Drilling : 0.44		1.75	4.375
Drilling	21 Aug., 02 7	~ 21 Aug., '02	0.4	36	Accident: 0.00	_	0	0
Dismount	21 Aug., '02 -	~ 21 Aug., '02	0.0	31	0.03	-	0.125	0.3125
Total	21 Aug., '02 -	~ 21 Aug., '02	0.5	00	0.50	_	2	5
			Drillin	ng Lengt	th			
Programmed I	ength	_	Ove	rburden,	, sand & gravel,	Quarternary	8	.40 m
Prolongation.		-		Core	elength		13	.60 m
Effective leng	th		Core	recovery		1	00.0 %	
	Workin	g hours			Core re	covery by each	10 meter	rs .
Drilling		71.4%	41.7%	Length (m)	Each (%)	Cumu	la. (%)	
Supplemental	drilling work	2.0 hrs	28.6%	16.7%	0 - 8.4	None core	None	core
Recovery fron	n accident	-	_	_	8.4 - 10.0	100.0	100	
Subtotal		7.0 hrs	100%	58.3%	10.0 -20.0 20.0 -22.0	100.0 10 100.0 10		
Preparation/s	etting up	0.5 hrs	-	4.2%				
Dismount/mol	oilization	0.5 hrs	-	4.2%				
Transportation	n of water	4.0 hrs		33.3%	Efficiency			
Others				-	Effective leng	th / Working dri	illing days	
					= 22.00m/0.43	375 days = 50.29	9m/d	
					Effective leng	th / Total drillin	g shifts =	
Total		12.0 hrs	-	100%	= 22.00m/0.87	'5 shifts = 25.14	l m/shift	
		Dri	lling leng	th by di	ameter			
Bit diameter		4"TB	92m	mφ			То	tal
Drilling length		0.00 m	22.0	) m			22.0	00 m
Core length		0.00 m	13.60	0 m			13.0	30 m
		I	nserted	casing p	pipes			
Inserted lengt	ngth by diameter Inserted length / Drilling				ength	Casing re	covery	
				· · · · · · · · · · · · · · · · · · ·				
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Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-34)

		Survey period			Breakdow	n of period		tal kers	
	Per	iod	Total	days	Working days	No working days	Engineers		
Preparation	15 Aug., '02 ~	- 15 Aug., '02	0.0	31	0.03	_	0.125	0.3125	
D.::!!!:	15 A '00 -	. 15 A '02	0.4	20	Drilling : 0.44	_	1.75	4.375	
Drilling	15 Aug., '02 ~	o 15 Aug., UZ	0.4	<b>3</b> 0	Accident: 0.00	_	0	0	
Dismount	15 Aug., '02 ~	~ 15 Aug., '02	0.0	31	0.03		0.125	0.3125	
Total	15 Aug., '02 ~	- 15 Aug., '02	0.5	00	0.50	_	2	5	
			Drillir	ng Lengt	:h				
Programmed	ength	<del>-</del>	Ove	rburden,	sand & gravel,	Quarternary	10	.00 m	
Prolongation		_		Core	elength		24	.00 m	
Effective leng	th	34.00 m		Core	recovery		1	00.0 %	
	Workin	g hours			Core re	covery by each	10 mete	rs	
Drilling		5.0 hrs	71.4%	35.7%	Length (m)	Each (%)	Cumu	ıla. (%)	
Supplemental	drilling work	2.0 hrs	28.6%	14.3%	0 - 10.0	.0 None core		None core	
Recovery from	n accident	-	_	-	10.0 20.0	100.0	100.0		
Subtotal		7.0 hrs	100%	50.0%	20.0 - 30.0 30.0 - 34.0			0.0 0.0	
Preparation/s	setting up	0.5 hrs	_	3.6%					
Dismount/mo	bilization	0.5 hrs	-	3.6%					
Transportatio	n of water	6.0 hrs	_	42.9%	Efficiency				
Others					Effective leng	th / Working dr	illing days		
					= 34.00m/0.4375 days = 77.71m/d				
					Effective length / Total drilling shifts =				
Total		14.0 hrs	_	100%	= 34.00m/0.8	75 shifts = 38.80	6 m/shift	<u> </u>	
		Dri	lling len	gth by d	iameter				
Bit diameter		4″TB	92m	ım Ø			Тс	otal	
Drilling length	!	0.00 m	34.0	0 m			34.	00 m	
Core length		0.00 m	24.0	0 m			24.	00 m	
			Inserted	casing	pipes				
Inserted leng	th by diameter	Inserted le	ength / Drilling length		ength	Casing recovery			

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-35)

		Survey period		<del></del>	Breako	down	of period		Total workers	
	Per	iod	Tota	days	Working da	ays	No working days	Engineers		
Preparation	20 Aug., '02 -	~ 20 Aug., '02	0.0	31	0	.03		0.125	0.3125	
Drilling	20 Aug '02 a	~ 20 Aug., '02	0.4	20	Drilling : 0	.44	_	1.75	4.375	
Drilling	20 Aug., 02	20 / 105., 02			Accident: 0	.00		0	0	
Dismount	20 Aug., '02 ~ 20 Aug., '02		0.0	31	0	.03	_	0.125	0.3125	
Total	20 Aug., '02 ~ 20 Aug., '02		0.500		0	.50		2	5	
			Drillin	ng Lengt	:h					
Programmed I	ength		Ove	rburden	, sand & grav	vel, G	Quarternary	9	.00 m	
Prolongation		-		Core	elength			7	.00 m	
Effective leng	th	16.00 m		Core	recovery			10	00.0 %	
	Workin	g hours			Core	e rec	overy by each	10 meter	rs	
Drilling		5.0 hrs	71.4%	41.7%	Length (n	n)	Each (%)	Cumu	la. (%)	
Supplemental	drilling work	2.0 hrs	28.6%	16.7%	0 - 9.0	0	None core	None	core	
Recovery from	n accident	-	_	-	9.0 - 10.		100.0	100		
Subtotal		7.0 hrs	100%	58.3%	10.0 - 16	.0	100.0	100	0.0	
Preparation/s	etting up	0.5 hrs	_	4.2%						
Dismount/mo	bilization	0.5 hrs	_	4.2%						
Transportation	n of water	4.0 hrs	_	33.3%	Efficiency					
Others					Effective le	ength	/ Working dri	illing days		
					= 16.00m/(	0.437	'5 days = 36.5	7m/d		
					Effective le	ength	n / Total drillin	g shifts =		
Total		12.0 hrs	_	100%	= 16.00m/0	0.875	shifts = 18.29	m/shift		
		Dri	lling leng	gth by d	iameter					
Bit diameter		4″TB	92m	m $\phi$				То	tal	
Drilling length		0.00 m	16.0	0 m				16.0	00 m	
Core length	Core length 0.00 n		7.0	0 m				7.0	00 m	
	· ·		Inserted	casing (	pipes					
Inserted length by diameter Inserted			ength / Drilling length		ength	Casing recovery				

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-36)

		Survey period		· · · · · · · · · · · · · · · · · · ·	Breakdow	n of period	1	tal kers
	Per	riod	Tota	l days	Working days	No working days	Engineers	
Preparation	22 Aug., '02 -	~ 22 Aug., '02	0.0	31	0.03	_	0.125	0.3125
Deilling	22 A '02 a	22 A '02	0.4	20	Drilling : 0.44	_	1.75	4.375
Drilling	22 Aug., 02 7	~ 22 Aug., '02	0.4	-38	Accident: 0.00		0	0
Dismount	22 Aug., '02 -	~ 22 Aug., '02	0.0	31	0.03		0.125	0.3125
Total	22 Aug., '02 -	~ 22 Aug., '02	0.5	00	0.50	_	2	5
			Drillin	ng Lengt	th	:		
Programmed I	ength	_	Ove	rburden,	, sand & gravel,	Quarternary	4	.00 m
Prolongation		_		Core	e length		16	.00 m
Effective leng	th	20.00 m		Core	recovery		10	00.0 %
	Workin	g hours			Core re	covery by each	10 meter	's
Drilling		5.0 hrs	71.4%	50.0%	Length (m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	2.0 hrs	28.6%	20.0%	0 - 4.0	None core	None	core
Recovery from	n accident	_	-	-	4.0 - 10.0	100.0	100	).0
Subtotal		7.0 hrs	100%	70.0%	10.0 -20.0	100.0	100	).0
Preparation/s	etting up	0.5 hrs	_	5.0%				
Dismount/mol	oilization	0.5 hrs	_	5.0%				
Transportation	n of water	2.0 hrs	-	20.0%	Efficiency			
Others					Effective lengt	h / Working dri	lling days	
					= 20.00m/0.43	75 days = 45.71	lm/d	
					Effective lengt	h / Total drillin	g shifts =	
Total		10.0 hrs	-	100%	= 20.00m/0.87	5 shifts = 22.86	m/shift	
		Dri	lling leng	gth by di	iameter			
Bit diameter		4"TB	92m	mφ			То	tal
Drilling length		0.00 m	20.00	0 m			20.0	00 m
Core length 0.00 m			18.00	0 m			18.0	00 m
		I	nserted	casing p	oipes			
Inserted length by diameter Inserted leng				ngth / Drilling length		Casing re	covery	

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-37)

		Survey period			Breakdow	n of period		tal kers
	Per	od Total days		days	Working days	No working days	Engineers	
Preparation	21 Aug., '02 ~	~ 21 Aug., '02	0.0	31	0.03	_	0.125	0.3125
Deilling	21 A '02 -	. 21 A '02	0.4	20	Drilling : 0.44	_	1.75	4.375
Drilling	21 Aug., '02 ~ 21 Aug., '02		0.4	·30	Accident: 0.00	_	0	0
Dismount	21 Aug., '02 ~	~ 21 Aug., '02	0.0	31	0.03	_	0.125	0.3125
Total	21 Aug., '02 ~	~ 21 Aug., '02	0.5	00	0.50	_	2	5
			Drillir	ng Lengt	th			-
Programmed I	ength		Ove	rburden,	, sand & gravel,	Quarternary	2	.00 m
Prolongation		-		Core	elength		19	.00 m
Effective leng	th	21.00 m		Core	recovery		1	00.0 %
	Workin	g hours			Core re	covery by each	n 10 mete	rs
Drilling		5.0 hrs	71.4%	41.7%	Length (m)	Each (%)	Cumu	la. (%)
Supplemental	drilling work	2.0 hrs	28.6%	16.7%	0 - 8.4	None core	None	core
Recovery from	n accident	_		-	8.4 - 10.0	100.0	100	
Subtotal		7.0 hrs	100%	58.3%	10.0 -20.0 20.0 -21.0	100.0 100.0	100.0 100.0	
Preparation/s	etting up	0.5 hrs	-	4.2%				
Dismount/mo	bilization	0.5 hrs	-	4.2%				
Transportatio	n of water	4.0 hrs	-	33.3%	Efficiency			
Others					Effective leng	th / Working dr	illing days	
					= 21.00m/0.43	375 days = 48.0	0m/d	
					Effective length / Total drilling shifts =			
Total		12.0 hrs		100%	= 21.00m/0.875 shifts = 24.00 m/shift			
		Dri	lling len	gth by d	iameter			
Bit diameter		4"TB	92m	ım $\phi$			To	tal
Drilling length		0.00 m	21.0	0 m			21.	00 m
Core length		0.00 m	19.0	0 m			19.	00 m
			Inserted	casing	pipes			
Inserted length by diameter Inserted length				ength / Drilling length		Casing recovery		
						····		

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-38)

		Survey period			Breakdow	n of period	1	Total workers	
	Per	iod	Total days		Working days	No working days	Engineers	Workers	
Preparation	26 Aug., '02 -	~ 26 Aug., '02	0.0	03	0.03	_	0.125	0.3125	
Drilling	26 Aug '02 a	~ 26 Aug., '02	0.0	80	Drilling : 0.69		2.75	6.875	
Drilling	20 Aug., 02 ·	., 02 20 / (05.)		09	Accident: 0.00	- <del>-</del>	0	0	
Dismount	26 Aug., '02 ·	~ 26Aug., '02	0.0	03	0.03	_	0.125	0.3125	
Total	26 Aug., '02 -	~ 26 Aug., '02	0.	75	0.75		3	7.5	
			Drillin	ng Lengt	:h				
Programmed I	ength	•	Ove	rburden	sand & gravel,	Quarternary	11	.00 m	
Prolongation		_		Core	elength		10	.00 m	
Effective leng	th	21.00 m		Core	recovery		1	00.0 %	
	Workin	g hours			Core re	covery by each	10 meter	rs	
Drilling		6.0 hrs	54.5%	33.3%	Length (m)	Each (%)	Cumu	ıla. (%)	
Supplemental	drilling work	5.0 hrs	45.5%	27.8%	0 - 11.0	None core	None	core	
Recovery from	n accident	-		-	11.0 - 20.0	100.0	100	0.0	
Subtotal		11.0 hrs	100%	61.1%	20.0 - 21.0	100.0	100	0.0	
Preparation/s	etting up	0.5 hrs	-	2.8%					
Dismount/mo	bilization	0.5 hrs	-	2.8%					
Transportation	n of water	6.0 hrs	_	33.3%	Efficiency			- A W 112	
Others					Effective lengt	h / Working dri	Iling days		
					= 21.00m/0.6875 days = 30.55 m/d				
					Effective length / Total drilling shifts =				
Total		18.0 hrs		100%	= 21.00m/1.375 shifts = 15.27 m/shift				
		Dri	lling leng	gth by di	ameter				
Bit diameter		4"TB	92m	m $\phi$			То	tal	
Drilling length		11.00 m	10.00	0 m			21.0	00 m	
Core length 0.00 m			10.00	0 m			10.0	00 m	
		I	nserted	casing	pipes				
Inserted lengt	h by diameter	Inserted le	ngth / [	Orilling le	ength	Casing recovery			
133mm φ	11.00 m	52.38%				100	%		
				-					

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-39)

		Survey period			Breakdowr	of period		Total workers	
	Per	riod	Tota	l days	Working days	No working days	Engineers		
Preparation	24 Aug., '02 -	~ 24 Aug., '02	0.	13	0.13		0.5	1.25	
Drilling	24 A '02 a	25 A '02	1.	09	Drilling : 1.09		4.375	10.938	
Drilling	24 Aug., 02 P	24 Aug., '02 ~ 25 Aug., '02		Ja	Accident: 0.00		0	0	
Dismount	25 Aug., '02 ·	~ 25Aug., '02	0.0	03	0.03	_	0.125	0.3125	
Total	24 Aug., '02 -	~ 25 Aug., '02	1.5	25	1.25 <sup>.</sup>	<del>-</del>	5	12.5	
			Drillin	ng Lengt	.h				
Programmed	ength	<del>-</del>	Ove	rburden,	sand & gravel,	Quarternary	12	.00 m	
Prolongation		-		Core	elength		3	.00 m	
Effective leng	th	15.00 m		Core	recovery		1(	00.0 %	
	Workin	g hours			Core re	covery by each	10 meter	rs .	
Drilling		12.0 hrs	68.6%	42.9%	Length (m)	Each (%)	Cumu	la. (%)	
Supplemental	drilling work	5.5 hrs	31.4%	19.6%	0 - 12.0	None core	None	core	
Recovery from	n accident	-	-	1	12.0 - 15.0	100.0	100	0.0	
Subtotal		17.5 hrs	100%	62.5%					
Preparation/s	etting up	2.0 hrs	_	7.1%					
Dismount/mo	bilization	0.5 hrs	-	1.8%					
Transportatio	n of water	8.0 hrs	- 28.6%			Efficiency			
Others					Effective lengt	h / Working dri	illing days		
					= 15.00m/1.09 days = 13.71 m/d				
					Effective length / Total drilling shifts =				
Total		28.0 hrs	-	100%	= 15.00m/2.19 shifts = 6.86 m/shift				
		Dri	lling leng	gth by di	ameter				
Bit diameter		4″TB	92m	m $\phi$			То	tal	
Drilling length		12.00 m	3.00	0 m			15.0	00 m	
Core length 0.00 r			3.00	0 m			3.0	00 m	
			nserted	casing p	oipes				
Inserted length by diameter Inserted			ngth / [	Orilling le	ength	Casing re	covery	.,	
133mm φ 12.00 m			80.00%	6	100%				

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-40)

		Survey period	•		Breakdow	n of period		tal kers
	Per	iod	Total	days	Working days	No working days	Engineers	
Preparation	25 Aug., '02 ~	~ 25 Aug., '02	0.0	03	0.03	_	0.125	0.3125
Deilling	25 Aug '02 a	~ 25 Au~ ¹∩2	0.6	80	Drilling : 0.69	_	2.75	6.875
Drilling	25 Aug., 02 P	~ 25 Aug., '02	0.0	Ja	Accident: 0.00	_	0	0
Dismount	25 Aug., '02 <i>'</i>	~ 25Aug., '02	0.0	03	0.03	_	0.125	0.3125
Total	25 Aug., '02 ~	~ 25 Aug., '02	0.7	75	0.75	_	3.0	7.5
			Drillir	ng Lengt	th			
Programmed I	ength	_	Ove	rburden,	, sand & gravel,	Quarternary	11	.00 m
Prolongation		_		Core	elength		3	.50 m
Effective leng	th	14.50 m		Core	recovery		1	00.0 %
	Workin	g hours			Core re	covery by each	10 meter	rs
Drilling		12.0 hrs	68.6%	42.9%	Length (m)	Each (%)	Cumu	ila. (%)
Supplemental	drilling work	5.5 hrs	31.4%	19.6%	0 - 11.0	None core	lone core None	
Recovery from	n accident	_	_		11.0 - 14.5	100.0 100		0.0
Subtotal		17.5 hrs	100%	62.5%				
Preparation/s	etting up	2.0 hrs	_	7.1%				
Dismount/mo	bilization	0.5 hrs	-	1.8%				
Transportatio	n of water	8.0 hrs	-	28.6%	Efficiency			
Others					Effective lengt	h / Working dr	illing days	
					= 14.50m/0.69	days = 21.09 r	m/d	
					Effective lengt	h / Total drillir	ng shifts =	
Total		28.0 hrs	-	100%	= 14.50m/1.37	5 shifts =10.55	m/shift	
		Dri	lling len	gth by d	iameter			
Bit diameter		4″TB	92m	ım $\phi$			Тс	tal
Drilling length		11.00 m	3.5	0 m			14.	50 m
Core length 0.00 m			3.5	0 m			3.	50 m
			nserted	casing	pipes			
Inserted length by diameter Inserted le			ength / Drilling length		ength	Casing recovery		
133mm $\phi$	mm φ 11.00 m			75.86%		100	)%	

Appendix 3-2 Miscellaneous Results of Individual Drillhole (MJBKE-41)

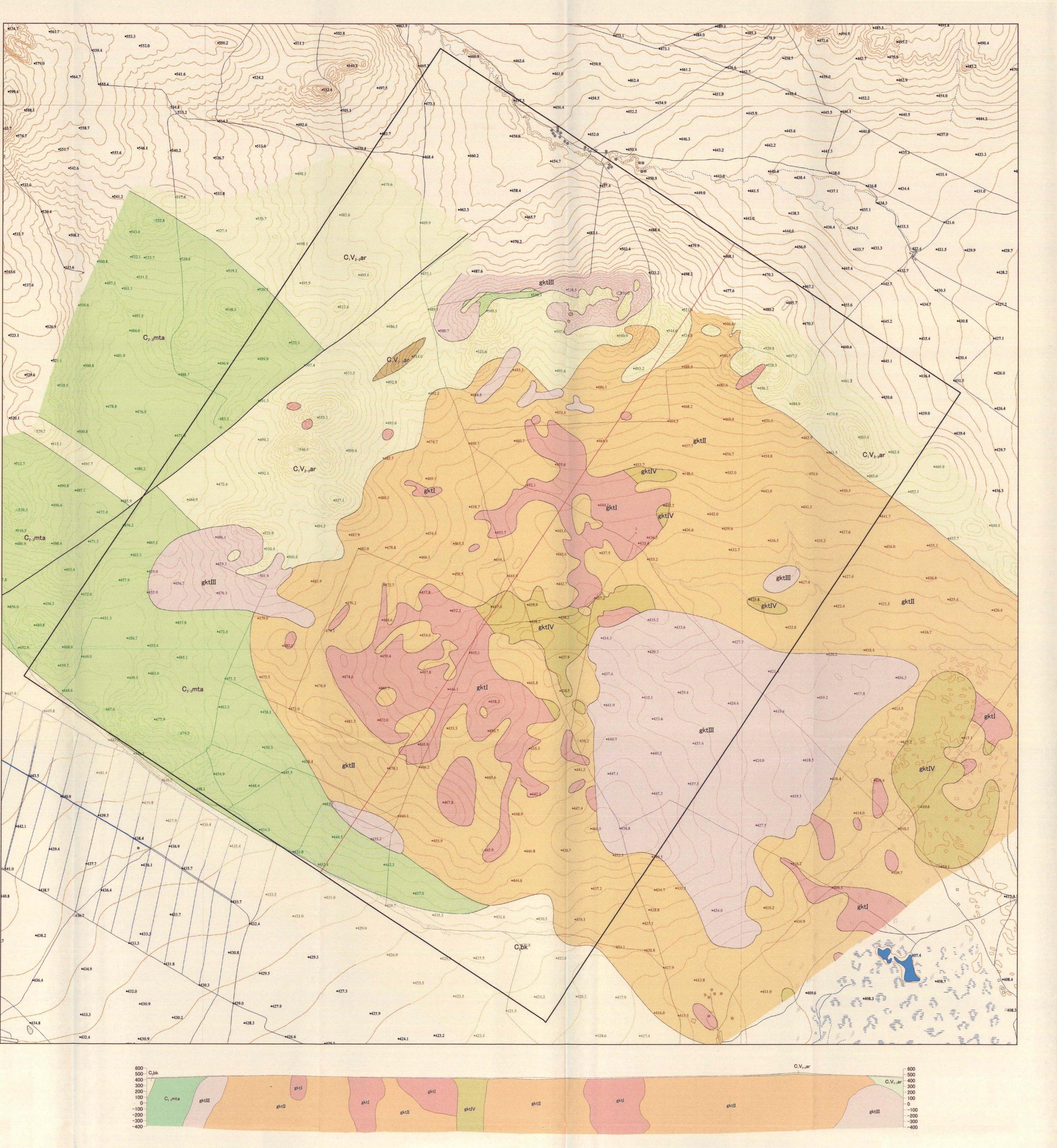
		Survey period			Breakdowr	of period	Total workers		
	Per	iod	Total	days	Working days	No working days	Engineers		
Preparation	26 Aug., '02 ~	~ 26 Aug., '02	0.0	03	0.03	_	0.125	0.3125	
Deilline	26 A '02 -	. 27 A '02	0.6	80	Drilling : 0.69		2.75	6.875	
Drilling	20 Aug., 02 ^	26 Aug., '02 ~ 27 Aug., '02		JJ	Accident: 0.00	_	0	0	
Dismount	27 Aug., '02 -	~ 27Aug., '02	0.0	03	0.03	-	0.125	0.3125	
Total	26 Aug., '02 ~	~ 27 Aug., '02	0.	75	0.75	_	3	7.5	
			Drillir	ng Lengt	.h				
Programmed I	ength	-	Ove	rburden,	sand & gravel,	Quarternary	12	.00 m	
Prolongation		-		Core	elength		9	.00 m	
Effective leng	th	18.00 m		Core	recovery		1	00.0 %	
	Workin	g hours			Core re	covery by each	10 meter	rs	
Drilling		6.0 hrs	54.5%	33.3%	Length (m)	Each (%)	Cumu	la. (%)	
Supplemental	drilling work	5.0 hrs	45.5%	27.8%	0 - 9.0	None core	None	core	
Recovery from	n accident	-	-		9.0 - 10.0			100.0	
Subtotal		11.0 hrs	100%	61.1%	10.0 - 18.0 100.0		100	0.0	
Preparation/s	etting up	0.5 hrs	-	2.8%					
Dismount/mo	bilization	0.5 hrs	-	2.8%					
Transportatio	n of water	6.0 hrs	_	33.3%	Efficiency				
Others					Effective lengt	h / Working dri	lling days		
					= 18.00m/0.68	75 days = 28.18	8 m/d		
					Effective lengt	h / Total drillir	ıg shifts =		
Total		18.0 hrs	-	100%	= 18.00m/1.375 shifts = 13.09 m/shift				
	· · · · · · · · · · · · · · · · · · ·	Dri	lling len	gth by d	iameter				
Bit diameter		4″TB	92m	ım $\phi$			To	tal	
Drilling length		9.00 m	9.0	0 m			18.	00 m	
Core length		0.00 m	9.0	0 m			9.	00 m	
		1	nserted	casing	pipes				
Inserted length by diameter Inserted le			ngth / [	Orilling le	ength	Casing recovery			
133mm φ 10.00 m			55.56%	6		100%			

### Appendix 3-3 Progress Record of Drilling

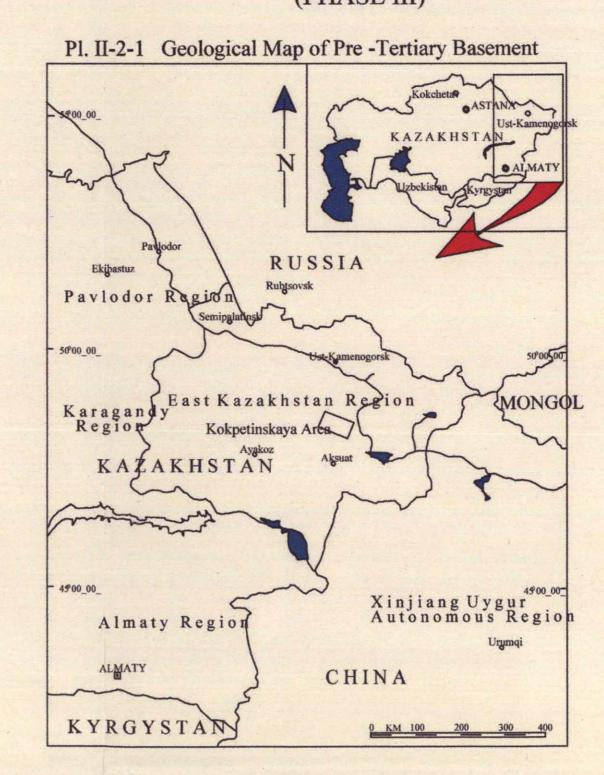
Appendix 3-3 Progress Record of Drilling

							Plar	Result
l+e	em of the survey	Quantity of works			2003			
'	Sill of Life dut voy	duality of horks	June	July	Augus	t	September	- January
(Jar	Travel pan to Kazakhstan)			30				
	ransportation of materials and preparation							
Drilling survey	No. 1 machine No. 2 machine No. 3 machine total  Dismount	9holes, 508.5m 9holes, 432.0m 49holes, 1327.0m 67holes, 2267.5m No. 1 machine No. 2 machine No. 3 machine		4		27 9 23 27 27 28 30 21 23 27 28 30		
(Ка	Travel zakhstan to Japan)	No. 1 No. 2, 3				26	2 2 2 4 4 4	
	Report making						7	

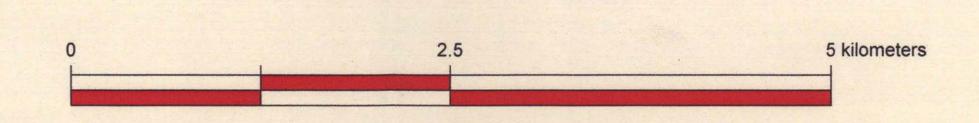
A - 349



# THE MINERAL EXPLORATION IN THE KOKPETINSKAYA AREA THE THE REPUBLIC OF KAZFKHSTAN (PHASE III)

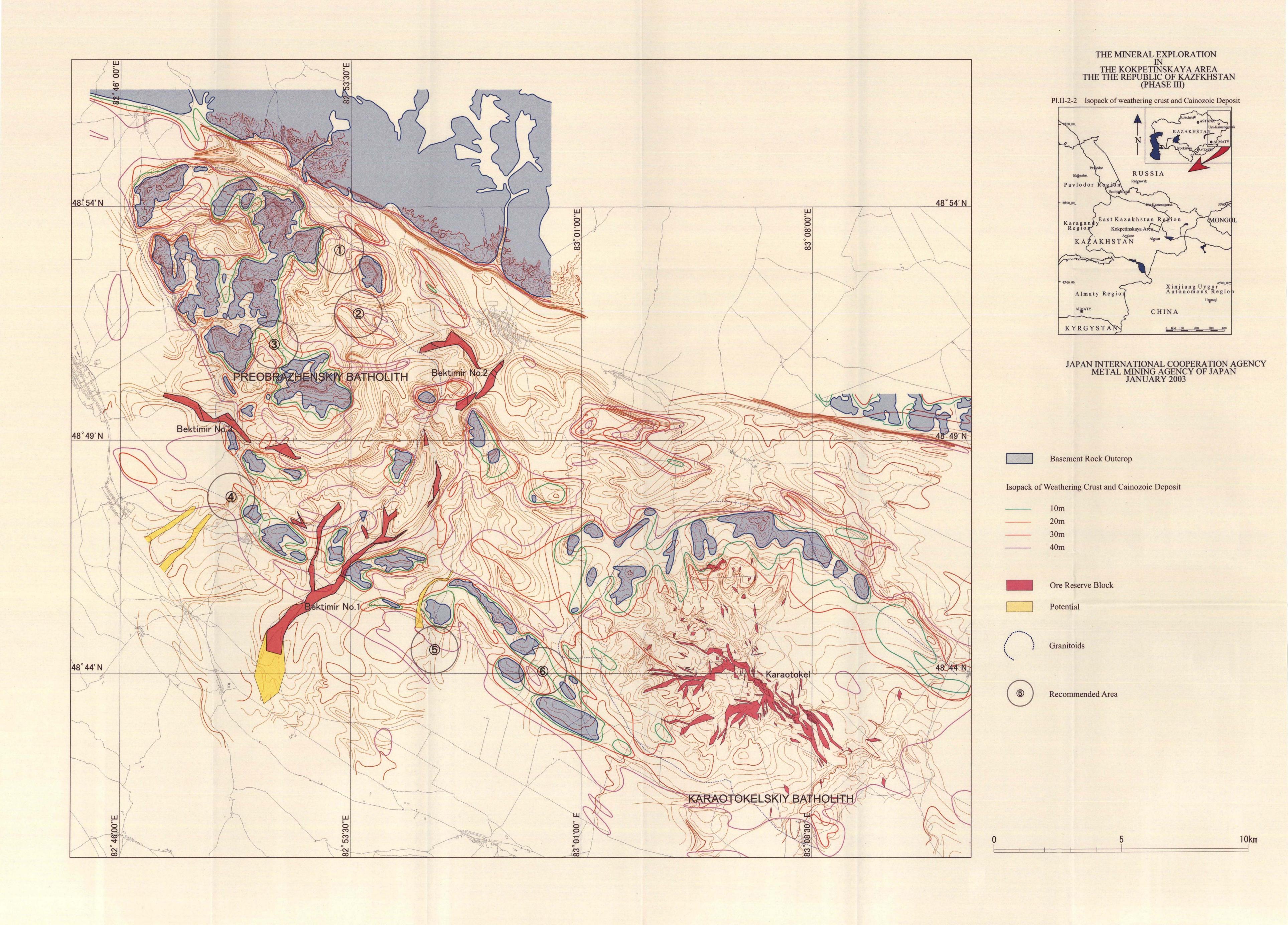


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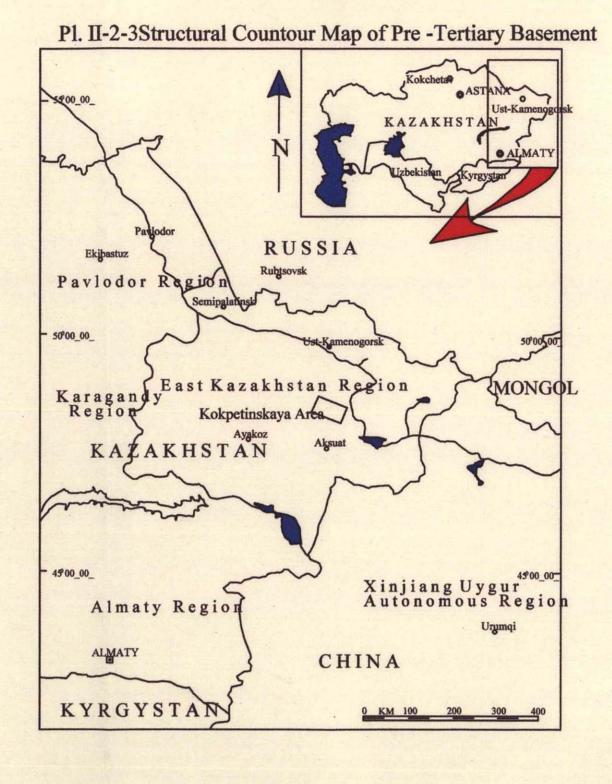


### LEGEND

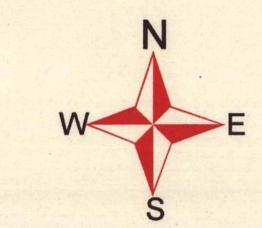
	Maityub formation	C <sub>2-3</sub> mta	conglomerate, sandstone, siltstone, mudstone
Carboniferous	Bukon formation	C₂bk	conglomerate, sandstone, siltstone, mudstone
	Arkalyk formation	C <sub>1</sub> V <sub>2-3</sub> ar	shale, sandstone, conglomerate /magnetite rich sandstone
		gktIV	gabbro
Permian to Jurassic		gktIII	granite
rermian to Jurassic	Karaotkel batholith	gktII	syenite
		gktI	granitoids

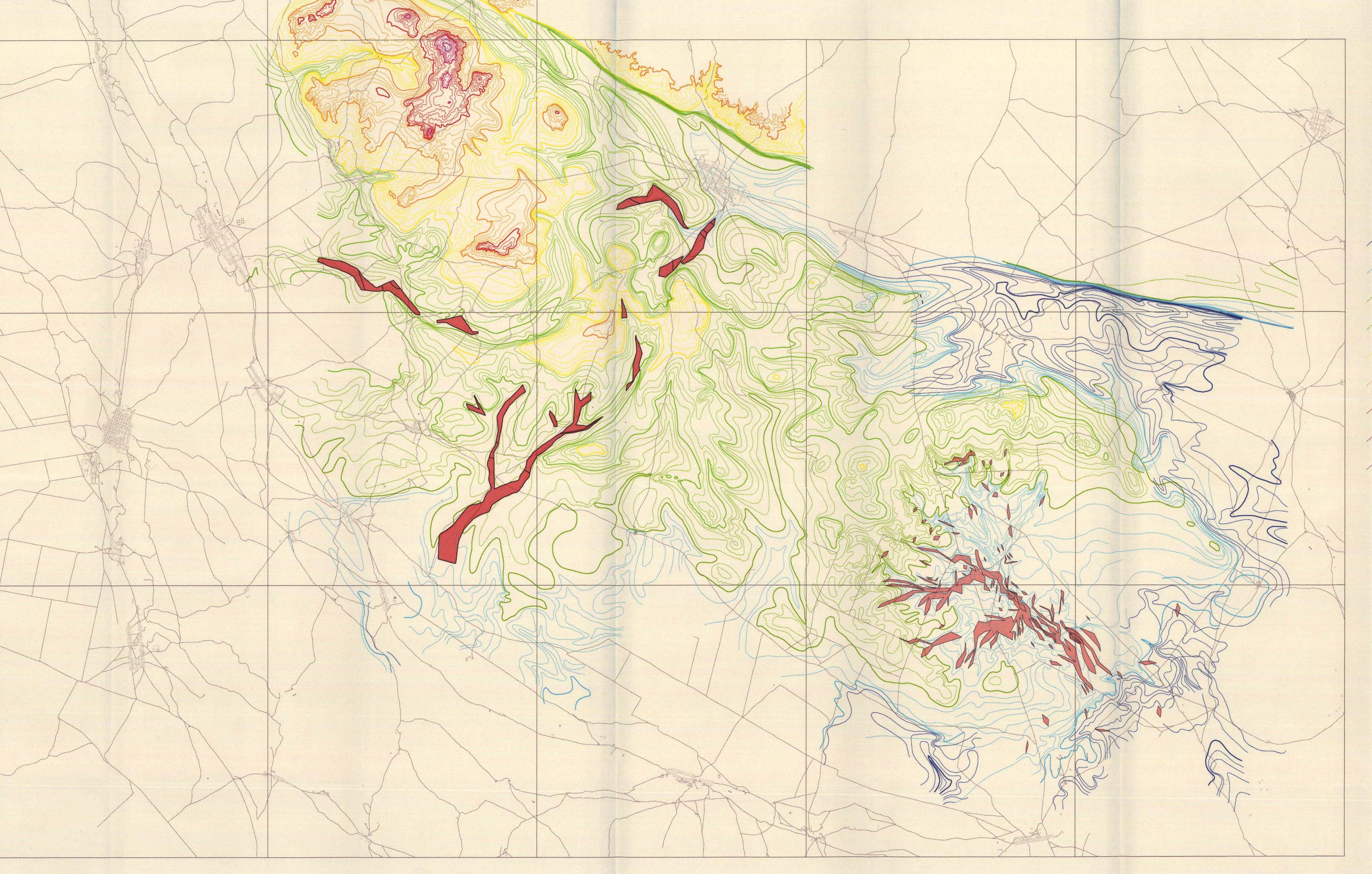


# THE MINERAL EXPLORATION IN THE KOKPETINSKAYA AREA THE THE REPUBLIC OF KAZFKHSTAN (PHASE III)



JAPAN INTERNATIONAL COOPERATION AGENCY METAL MINING AGENCY OF JAPAN JANUARY 2003





## LEGEND

