

Sample No. : 8Y 058
Rock Name : Sovite
Sector : Chilwa Is.





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Rock Name : Sovite
Sector : Chilwa Is.

O. 05mm

Appendix 6 Summarized operational data

Working Time of Each Drill Hole

Songwe

	Grand Total	H		225°001	215°00'	202°00"			230°00"	186.00	170°001		74°00' 1600°00'
	Reted Others			21,001	9,00,	2°001	16°00'	5°001	8°00'	6°00"	7,00,1		74°00'
	Moving of Water	æ		56,001	,00,09	.00.09	60,001	48,001	70.001	60°00'	48°001		20°00' 462°00'
	Take to Pieces	Ħ		ľ	ı	20°001	ì	ı	ı	ı	1	,	20°00'
Working Time	Const- ruct	æ	<u> </u>	38,00	36°00'	1	18,001	27,00	20°00'	28°00'	27°00'		425°00' 194°00'
Worki	Sub Total	#6	,	55,00	55,001	.00.09	55,00,	44°00'	66°001	46°00'	44,00,		425°00'
	Regain of Accident	æ		ı	1		ı	ı	ı	ı	1		l
	Out Drilling	H		18,00,	13,00,	18°30'	15°00'	12°30'	22°30'	16°00'	13°30'		129°00'
	Drilling	Н		.00.75	42°001	41,30,	40.00	31°30'	43°30'	30°00'	30°30'		296°00'
Workers	Worker	man	4 / 6	345	248	166	234	177	197	217	200		1784
Shift of Workers Number of Workers	Engineer	mam	C	67	7	7	6	7	∞	80	7		78
Workers	011 Shift	S	F		7	7	٥	7	œ	œ	7.		799
Shift of	ing	ß	v)	'n	'n	1 0	4	9	10	4		39
Drilling	.c	E	76 10	2	47.70	48.00	49.70	49.50	28.40	42.70	48.20		360.30
Dril	Length Core Drilled Lengt	Ē	50.20		50.10	50.10	50.10	50.10	50.10	50.20	50.30		Total 401.20 360.30
Drill	Но1е	JMS			13	14	15	16	17	18	19		Total

Working Time of Each Drill Hole

Thundulu	սԼս					77704	o amer Sn	working time of bacm Drift hole	erou ir						
		Drilling	Shift of	Workers	Shift of Workers Number of Workers	Workers				Workir	Working Time				
Hole	Length Drilled	Core	Hole Length Core Drilling 011 Drilled Length Shift Shift	•	Engineer Worker Drilling Out	Worker	Drilling	Out Drilling	Regain of Accident	Sub Total	Construct	Take to Pieces	Moving of Water	Reted Others	Grand
JMS	E	£	S	S.	mam	แลน	æ	ĸ	æ	35	н.	5	æ		Ħ
															
25	50.30	45.30	7	نو	9	134	31°30'	12°30'	1	44,00.	44,00. 18,00.	l	48°00'	6,001	160,00
26	50.20	44.90	4	12	16	384	32°30'	11°30'	ı	44°00'	44°00' 64°00'	ı	48°00'	50,001	250 001
27	50.20	47.90	4	œ	80	546	32°00°	12,00,	1	44,00,	44.00, 54.00,	ı	48,00,	,00,9	1,00,961
			-												
Total	Total 150.70 138.10	138.10	12	26	30	767	100.96	36°00'	ı	132°00'	132°00' 136°00'	1	144°00' 62°00'	.00.29	.00.909
			_		_		_	_	•	***				_	_

Working Time of Each Drill Hole

	Grand Total	H		90,00	100,001	100,001	100,001	80.00	80.00	100,001	17.00.	89°00"	88°00'	80,001	89°00"	89°00		3009°001
	Reted Others			8°00	,00.6	9°00°	,00,6	7°00'	7°00'	,00°6	100°9	1,00,2	8,00.	8°00'	1,000,	7,00,1		398°00'
	Moving of Water	;r:		1	ı	1	1	ı	ı	ı	1	ł	ı	1	1	ı		l
	Take to Pieces	rc:		, I.	1	<u> </u>	1	. 1	l	1	1	l	ı	ı	ı	ı.		ı
ng Time	Const	×		27°00'	27°00'	36°00'	36°00'	18°00'	18°00'	27°00'	27°00'	27°00'	36,00	27°00'	27°001	27°00'		939°00'
Working	Sub Total	н		55°00'	64°00	55°001	55°00'	55°001	55°00'	.00.59	.00.77	55°001	44,00,	45°00'	55°00	55°00'		1672°00' 939°00'
	Regain of Accident	H		1:	9,00,	: • 1	1.	ı	ı	,00.6	i ,	ı	,	ı	ı	ı		18°00'
	Out Drilling	H		20,001	25°30'	24°30'	25°30	19°30'	18°30'	16°00'	17,00,	23°30'	20°30°	11,00,	23°30°	23,00,		614°00°
	Drilling Out Drilling	Ħ		35°00'	29°30'	30°301	29°30'	35°30'	36°30"	39°00'	27°00'	31,30'	23°30'	34,001	31°30°	32,001	,	1040°00'
Workers	Worker	man		188	204	195	175	145	141	215	174	170	164	215	195	170		6402
Number of Workers	Engineer	mam		∞	6	6	6		2	σ.	. 9	7	8	∞	1	7		256
of Workers	011 Shift	· w		∞	σ	6	6	^	7	6	9	∞	80	80	7	8		258
Shift of	Drilling Shift	S	.:	ν,	'n	ا	νn 	٠ ٢٥	'n	: 'S	4	5	4	٧.	2	ıv	-	153
Drilling	Core Length	Æ		49.20	45.80	49.00	39.70	44.30	47.20	47.25	48.70	48.40	09.87	45.30	35.00	46.40		1391.85
Dril	Length Drilled	E		50.20	50,30	50.20	50.10	50.30	50.10	50.20	50.20	50.20	50.30	50.20	50.20	50.10		Total 1606.40 1391.8
Dr.511	Hole	JMS		20	21	22	23	24	25	26	27	28	29	30	31	32		Total

Efficiency of Each Drill Hole

Songwe

		Depth of Hole	Hole				Bit Size	Bit Size of Drilling	80	Efficiency	ency
Hole	ī	Increase			Core Recovery	7.3mm		56mm	E		
· on	r Lanned Length	or Decrease Length	Length Drilling	Core		Drilling Length	Core Length	Length Drilling	Core Length	Drilling Period	Drilling Shift
	E	E	E	E	×	E	Ε	E	E	m/day	s/w
<u>,</u>											
JMS-12	50.00	0.20	50,20	46.10	92.2	1.70	1.50	48.50	44.60	16.73	10.04
13	50.00	0.10	50.10	47.70	8.66	2.30	00.0	47.80	47.70	12.52	10.02
14	20.00	0.10	50.10	48.00	97.0	09.0	00.00	49.50	48.00	16.70	10.02
15	20.00	0.10	50.10	49.70	99.2	1.50	1.10	48.60	78.60	12.53	10.02
16		0.10	50.10	49.50	7.66	1.80	1.50	48.30	00.84	25.05	12.52
17	50.00	0.10	50.10	28.40	86.6	17.30	0.00	32.80	28.40	16.70	8,35
18	50.00	0.20	50.20	42.70	86.1	1.50	0.90	48.70	41.80	16.73	10.04
119	50.00	0.30	50.30	48.20	8.66	2.60	09.0	47.70	47.60	16.76	12.57
Total	400.00	1.20	401.20	360,30	0.26	29.30	5.60	371.90	354.70	16.71	10.28
Tundulu											

		Depth of Hole	Hole				Bit Size	Bit Size of Drilling		Efficiency	ency
Hole		Increase			Core Recovery	73тт		56mm	5		
è	r tanned Length	or Decrease Length	Length Drilling	Core		Drilling Length	Core Length	Length Drillin	Core	Drilling Period	Drilling Shift
	E	£	Œ	E	z	E	E	E	Æ	m/day	s/m
-											
JMT-25	50.00	0.30	50.30	45.30	93.0	1.60	0.00	68.70	45, 30	25.15	
.26	50.00	0.20	50.20	744.90	98.7	5.20	0.50	45.00	44.40	25.10	12.21
27	50.00	0.20	50.20	47.90	98.4	1.60	0.10	48.60	47.80	25.10	12.55
							:				1
Total	150.00	0.70	150.70	138.10	7.96	8.40	0.60	142.30	137.50	25.11	12.55

Efficiency of Each Drill Hole

Hole No. JMC 2 2 3 3 5	Planned Length m 50.00	Į.	Hole								
Hole No. 11 1 2 2 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Planned Length m 50.00 50.00						Size of	of Drilling		Efficiency	ency
3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Flanned Length m 50.00 50.00	Tucrease		×.	Core Recovery	73mm		56mm	TIES.		
JMC 1 1 3 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5	50.00 50.00 50.00	or Decrease Length	Length Drilling	Core Length	0.50	Length Drilling	Core Length	Length Drilling	Core	Drilling Period	Drilling Shift
r 2 m 4 s	50.00	Œ	E	E	60	E	E	E	Æ	m/day	s/ш
2 6 4 0	50.00	0.20	50.20	39.70	91.7	06.9	00.0	43.30	39.70	25.10	12.55
m 4 v	50.00	0.10	50.10	46.20	93.5	1.60	06.0	48.50	45.30	16.70	10.02
4 v		0.30	50.30	46.20	93.9	1.70	09.0	48.60	45.60	25.10	12.57
M _.	20.00	0.20	50.20	39.70	85.0	3.50	0.00	46.70	39.70	16.73	10.04
	50.00	0.30	50.30	39.00	82.1	2.80	00.0	47.50	39.00	16.80	10.06
•	50.00	0.10	50.10	31.80	82.6	10.50	00.0	39.60	31.80	16.70	10.02
6	50.00	0.20	50.20	34.10	84.2	9.70	00.0	40.50	34.10	16.73	10.04
80	50.00	0.30	50.30	34.70	8.48	05.6	00.0	40.90	34.70	12.58	8.38
<u> </u>	50.00	0.10	50.10	38.10	85.8	5.70	00.0	04.44	38.10	16.70	12.52
10	50.00	0.30	50.30	42.40	88.1	2.50	0.30	47.80	42.10	16.77	10.06
11	50.00	0.10	50.10	45.70	93.3	1.50	0.40	48.60	45.30	16.70	18.35
12	50.00	0.20	50.20	46.10	0.96	2.60	0.40	47.60	45.70	25.10	12.55
113	50.00	0.30	50.30	48.40	8.66	1.80	00.0	48.50	07.87	25.15	12.57
14	20.00	0.20	50.20	47.60	95.6	1.60	1.20	48.60	76.40	16.73	10.04
15	50.00	0.20	50.20	44.80	94.1	2.60	00.00	47.60	44.80	16.73	10.04
16	50.00	0.20	50.20	44.70	8.96	4.00	00.0	46.20	44.70	25.10	12.55
1.7	50.00	0.20	50.20	33.90	83.5	2.00	00.00	48.20	33.90	25.10	12.55
18	20.00	01.0	50.10	45.80	98.3	3.50	00.00	76.60	45.80	16,70	10.02

Efficiency of Each Drill Hole

Chilwa	ro.			. z. 1	Efficiency of Each Drill Hole	sach Drill H	ole				
		Depth of	Hole		\$		Size of	Drilling		Efficiency	ency
Hole	<u></u>	Increase				73mm		56mm	E)		
oz.	Planned Length	or Decrease Length	Length Drilling	Core	0 %20	Length Drilling	Core Length	Length Drilling	Core Length	Drilling Period	Drilling Shift
	E	E	E	Ħ	%	E	Æ	Ħ	Ę	m/day	s/w
			C C			,	1			,	
			20.20	48.30	98.2	1.50	0.50	48.70	67.80	16.73	10.04
- 20 	50.00	0.20	50.20	49.20	98.8	1.80	1.40	48.40	47.80	16.73	10.04
21	20.00	0.30	50.30	45.80	93.9	1.50	00.00	48.80	45.80	16.76	10.06
22	50.00	0.20	50.20	00.65	9.66	2.10	1.10	48.10	47.90	16.73	10.04
23	50.00	0.10	50.10	39.70	98.0	09.6	0.00	40.50	39.70	16.70	10.02
24	50.00	0.30	50.30	44.30	93.7	3.00	00.0	47.30	44.30	16.77	10.06
25	50.00	0.10	50.10	47.20	93.00	2.90	00.0	47.20	43.90	16.70	10.02
26	50.00	0.20	50.20	47.25	0.86	2.00	00.0	48.20	47.25	16.73	10.04
27	20.00	0.20	50.20	48.70	100	2.00	0.50	48.20	48.20	25.10	12.55
28	3 50.00	0.20	50.20	07.87	100	1.80	00.00	48.40	48.40	16.73	10.04
29		0:30	50.30	78.40	0.76	1.60	1.20	48.70	47.20	25.15	12.57
30	50.00	0.20	50.20	45.30	90.2	2.50	1.70	47.70	45.30	16.73	10.04
31	1 50.00	0.20	50.20	35.00	81.0	7.00	00.00	43.20	35.00	16.73	10.04
32	2 50.00	0.10	50.10	76.40	97.5	3.00	0.50	47.10	45.90	16.70	10.02
			:					-			
	<u> </u>				-						
Total	al 160.00	6.40	1606.40	1391.85	93.0	116.20	10.70	1490.20	1379,55	18.69	10.49
				-	·	, , , , , , , , , , , , , , , , , , ,				X-	

Appendix 7 Operational results of drill hole

JMC-1

				11 M.	umber	L Δ ~ :	6 m			mark - 1	
		Period	<u> </u>		of Days	Wo	tual rking ays	Day 0	ef	Total Number Worker	1
reparation	10th OCT.	'88∿12t1	n OCT.'88	·	3		3			120	
rilling	13th OCT.	'88∿14tl	n OCT.'88		2		2	-		48	
Removing							-	~-		-	
otal	loth OCT.	'88∿14tl	h OCT.'88		5		5	_		168	
Deptl	of Dril	ling		С	ore Rec	over	y for e	ach 10)O m	section	n
lanned ength	50.00 m	Over- burden		m	Depth of Hole		Secti	оп		Total	
ncrease or Decrease in Length	. 0.20	Core Length	39.70	<u>л</u> О) ∿ 50.2	20 m m	91.7	7 %		91.7	7 7
ength Filled	50.20 m	Core Recover	1 01 7	z		m		7.			% %
rilling	30°00 H	68.2	⁷ 38.5	z	 	ш		78			Z
Out Drilling	14°00'	31.8	17.9			m		7,			%
legain ot Accident	_		_		Ef	fici	ency of	Dri1	ling	<u> </u>	
Cotal	44°001	100	56.4	50	.20 m/₩	orki	ng Peri	od	10	.04 m/d	ay
Construct	27°00'	_	34.6	50	. 20 m/W	orki	ng Days		10	04 m/d	ay
ake to pieces			-	50	.20 m/D	rill	ing Per	iod	25	.10 m/d	ay.
loving of water		_	_	50	. 20 m/N	et D	rilling	Davs	25	.10 m/d	ay
load · others	7°00'	-	9.0								ᅱ
G · Total	78°00'	_	100	То	tal wor	kers	50	.20 m	3	.35 Man	/111
Pipe Size & Meterage	Length Drilling	, Re				Work	ers/ 50	. 20 m	0	. 96 Man	/m
	Length	ĺ				Dri	lling o	f Size	2		
BW-CP 6.90 m	13.7	%	100	∛ Bi	t size		BW	56	-T		
т		%		% Dr	illing		6.90	^m 43	.30 ^r	n .	
m		%		Z Co	re Leng	th	0.00	39	. 70		
											•
	Deptilanned ength ength ength ength ength rilled rilling egain of ccident otal onstruct ake to pieces oving of water oad others G. Total Pipe Size & Meterage BW-CP 6.90 m m	emoving otal loth OCT. Depth of Dril lanned ength 50.00 m ncrease or ecrease in ength solution of the cident of cident otal 44°00' ake to pieces oving of water oad others 7°00' G. Total 78°00' Pipe Size & Length Drilling Length BW-CP 6.90 m 13.7 m	Depth of Drilling lanned ength ncrease or ecrease in ength ength solution of Drilling lanned ength ncrease or ecrease in ength ength rilled solution of Drilling lanned for the purden core langth solution of the purden langth coident cotal dangth construct ake to pieces	Depth of Drilling lanned ength ncrease or ecrease in ength ength solution of Drilling 10th OCT.'88v14th OCT.'88 10th OCT.'8v14th OCT.'8 10th OCT.'8v14t	Depth of Drilling	Depth of Drilling	Depth of Drilling Core Recover	Depth of Drilling Core Recovery for end of Role	Depth of Drilling Core Recovery for each 10	Depth of Drilling Depth of Drilling Depth of Drilling Depth of Drilling Depth of Burden Depth of Burden Depth of Hole Section	emoving Depth of Drilling Core Recovery for each 100 m section

JMC-2

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ֿֿהַ]	Perio	d		Number of Days	Wo	tual rking ays	Day O	ff N	fotal umber Morker	
Period	Preparation	6th Oct.	188~8	th O	ct.'88	3		3	-		110	
	Drilling	8th Oct.	′88∿1	Oth (Oct.'88	3	2	2.5	-		60	
Working	Removing					_		-				
X	Total	6th Oct.	¹88∿1	Oth (Oct.'88	6	5	5.5			170	
	Dept	h of Dril	ling			Core Rec	over	y for e	each 10)O m s	ection	1
Length	Planned Length	50.00 m	Over burd	- 1	m.	Depth of Hole	-	Secti	ion	T	otal	
Drilling Le	Increase or Decrease in Length	0.10 m	Core Leng		m 46.20	0 ∿ 50.	ш 1 <i>Ол</i>	93	.5 % %	93	.5	% %
Dril1	Length Drilled	50.10 ^m	Core Reco	i	93.5		m m		% %			7 7
	Drilling	31°00 ^{JH}	56	5.4 %	34.4 %		III.		%			7,
	Out Drilling	24°00'	43	3.6	26.7		m		%			%
	Regain of Accident		-		_	Ef	fici	lency o	f Dril	ling		25,700.00
Time	Total	55°001	10	00	61.1	50.10 m/W	orki	ng Peri	od	8.3	5 m/d;	ay
, ,	Construct	27°00'			30.0	50.10 m/W	orki	ng Days	3	9.1	l m/da	аy
Working	take to pieces				_	50.10 m/D	ri 11	ing Per	riod	16.7	0 m/d	ay
Wox	Moving of water			-		50.10 m/N	et D	rilling	g Days	20.0	4 m/d	ay
	Road · others	8°00'	-		8.9	:					· · · · · ·	
	G · Total	90°00'		-	100	Total wor	kers	s/ <u> </u>	50.20m	3.3	9 Man	/m
þa	Pipe Size & Meterage	Inserted Length Drillin	97		overy of ing Pipe	Total Drilling	Worl	kers/	50.10m	1.2	20 Man	/m
serted		Length					Dr:	illing	of Siz	e		
l H	вw-ср 1.60 m	3.2	7,		100 %	Bit size		BW		-T		
Pipe	m		%		7.	Drilling		1.6		8.50 ^m		
о 0	m		%		%	Core Leng	gth	0.9	0 4	5.30		
Casing		,										
Ü							,,			·		

JMC-3

po			Period		Number of Days	Wo	tual rking Days	Day (Off	Total Number of Workers
Perio	Preparation	7th Oct.	'88∿10th	Oct.'88	4		4			125
00	Drilling	lith Oct	.'88∿12tl	Oct.'88	2		2	_		48
Workin	Removing							-		
3	Total	7th Oct.	'88∿12th	Oct.'88	6		6	: -		173
SC-130-82	Dept	h of Dril	ling		Core Rec	over	y for	each 1	00 m	section
Length	Planned Length	50.00 ^m	Over- burden	m	Depth of Hole		Sect		T	Total
	Increase or Decrease in Length	0.30 ^m	Core Length	46.20 m	0 ∿ 50.30	n (93.	9 Z Z		93.9 %
Drilling	Length Drilled	50.30 ^m	Core Recovery	93.9		m	· · · · · · · · · · · · · · · · · · ·	% %		% %
	Drilling	28°30,H	64.8	32.4		m		78		
	Out Drilling	15°30'	35.2	17.6		m		7.		%
	Regain of Accident			_	Ef	fici	ency o	f Dril	ling	:
Time	Total	44°00'	100	50.0	50.30 m/Wo	rkir	ng Peri	od	8.3	8 m/day
	Construct	36°00'	-	40.9	50.30 m/Wo	rki	ng Days		8.3	
Working	take to pieces	-			50.30 m/Dr	illi	ing Per	iod	25.1	
Wor	Moving of water	_	_	_	50.30 m/Ne	t Di	rillino	Dave	25.1	5 m/day
	Road · others	8°09'i		9.1				, 20,0		- m/day
	G ·Total	88°09'	_	100	Total worl	kers	/50	O.30 m	3.4	4 Man/m
erted	Pipe Size & Meterage	Inserted Length Drilling Length	g Rec	overy of ing Pipe	Total Drilling V		ers/ ⁵⁰		<u></u>	5 Man/m
ഗ. Ի	DI OD 1 70 M	2.1	7	100 7	Pit oino			·		
e In	BW-CP 1.70 m	3.4	7. 7.	100 %	Bit size Drilling		BW 1.70	56-		
Pipe	ш		7° 7	~ %	Core Lengt	r h	0,60		.60 ^m	
ing	41		-/*		core renge	-11	0,00		. 00	
Casing										
	<u></u>				· · · · · · · · · · · · · · · · · · ·					

JMC-4

ď		in the state of th	Period		Number of Days	Wo:	tual rking ays	Day C	ff N	Total umber of Workers
Period	Preparation	lst Oct.	'83∿3rd	Oct. 188	3		3	<u></u>		105
	Drilling	3rd Oct.	'88∿5th	Oct. 88	3 .	2	.5	-		75
Working	Removing				_		-	_		~-
M	Total	lst Oct.	'88∿5th	Oct. '88	6	5	.5	_		180
	Dept	h of Dril	ling		Core Rec	over	y for ea	nch 10)0 m s	section
Length	Planned Length	50.00 m	Over- burden	m	Depth of Hole		Sectio	n	7	lotal
1 60	Increase or Decrease in Length	0.20 m	Core Length	39.70 m	0 ∿ 50.	20m m	85.0	% %	85.	0 % %
Drillin	Length Drilled	50 i 20 m	Core Recover	85.0		m m		% %		7. 7.
-	Drilling	32°00' H	58.2	35.5		m		⁷⁰ %		. %
	Out Drilling	23°001	41.8	25.6		m		. %		%
	Regain of Accident	<u> </u>	· –	1 -	Ef	fici	ency of	Dril	ling	
Time	Total	55°00'	100	61.1	50.20 m/W	orki	ng Perio	đ	8.37	m/day
	Construct	27°00'	-	30.0	50.20 m/Wo	orki	ng Days		9.13	m/day
Working	take to pieces		-		50.20 m/D:	rill	ing Peri	od	16.7	3 m/day
Wor	Moving of water	_	-	-	50.20 m/N	et D	rilling	Days	20,0	8 m/day
	Road - others	8°00	-	8.9						
	G · Total	90°00'		100	Total wor	kers	/ 50	. 20 ^m	3.5	9 Man/m
þe	Pipe Size & Meterage	Inserted Length Drilling	, Re	covery of sing Pipe	Total Drilling	Work	ers/ 50	. 20 m	1.5	Man/m
serted	:	Length				Dri	lling of	E Siz	e	
I,	BW-CP 3.50 m	7.0	78	100 %	Bit size		BW	56	-Т	
Pipe	n.		7.	7.	Drilling		3.50	n 4€	.70 ^m	
	m		78	7, 7,	Core Leng	th	0.00	39	70	
Casing							· · · · · · · · · · · · · · · · · · ·			
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F****										
ođ			Period		Number of Days	Wo	etual orking Days	Day (Off	Total Number of Workers
eriod	Preparation	3rd Oct.'	88√5th Oc	t.'88	3		3	<u>.</u>		128
4 8 t	Drilling	6th Oct.'	88 ₀ 8th Oc	t. 188	3		2.5			75
Working	Removing				_		-			**
3	Total	3th Oct.'8	38∿8th Oc	t.'88	6		5.5	·		.203
	Dept	h of Dril	ling		Core Rec	ovei	ry for e	each 1	00 m	section
Length	Planned Length	m 50.00	Over- burden	m	Depth of Hole		Secti		:	Total
500	Increase or Decrease in Length	0.30	Core Length	39.00	0∿50.30	m m	82.	1 % %		82.1 <u>%</u> %
Drillin	Length Drilled	m 50.30	Core Recovery	82.1		m m		7 7		%
	Drilling	33°00' ^H	60.0	36.7		m		7,		. %
	Out Drilling	22°00'	40.0	24.4		m		7,		7,
	Regain ot Accident		-	_	Ef.	fici	ency of	Dri1	ling	
Time	Total	55°00'	100	61.1	50.30 m/Wo	rki	ng Peri	od	8.3	18 m/day
	Construct	27°00'	_	30.0	50.30 m/Wo	rki	ng Days		9.1	
Working	take to pieces	. –		_	50.30 m/Dr	i11	ing Per	iod	16.8	
Wol	Moving of water		_	-	50.30 m/Ne	t D	rilling	Davs	20.1	2 m/day
	Road · others	8°00'	- .	8.9				24,0	20.1	2 m/day
	G ∙Total	90°00'	<u>-</u>	100	Total worl	kers	/ 50	.30 m	4.0	4 Man/m
ted	Pipe Size & Meterage	Inserted Length Drilling	g Rec	overy of ing Pipe	Total Drilling W					9 Man/m
serted		Length				Dri	lling o	f Size		1
[류[BW-CP 13.30 m	26.4	%	100 %	Bit size		BW	5წ-	Ţ	
Pipe	m		Z	7.	Drilling	-	2.80	m 4 Z	.50 ^m	
g B	m		7.	%	Core Lengt	h	0.00	39	.00	
Casing										

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					_		i de la constanta de la consta	e: married way, p	ret-lat-Galeinnisma inc	
70			Period		Number of Days	Wo	ctual orking Days	Day (ff N	lotal umber of Workers
Period	Preparation	31st JUI	'88∿5th	AUG. 188	6		6			340
	Drilling	6th AUG.	'88 ∿8th	AUG. 188	3		2.5	0.5		141
Working	Removing									
133	Total	31st JUL	'88∿8th	AUG.'88	9		8.5	0.5		481
	Dept	h of Dril	ling		Core Rec	ove:	ry for	each 10)O m s	ection
Length	Planned Length	50.10 ^m	Over- burden	m	Depth of Hole		Sect	ion	Т	otal
	Increase or Decrease in Length	0.10 m	Core Length	31.80	0∿50.10	m m	82.	.6 % %	8:	2.6 % %
Drilling	Length Drilled	50.10 m	Core Recovery	82.6	<u> </u>	m		Z		7.
	Drilling	38°00' H	69.1 7	31.7 %		m		% %		7. 7.
	Out Drilling	17°00'	30.9	14.1		m		7.		7
	Regain of Accident	<u>-</u>	-	-	Ef	fic	iency o		ling	
Time	Total	55°00'	100	45.8	50.10m/Wo	orki	ng Peri	od	5.57	m/day
1 1	Construct	57°00'	-	47.5	50.10m/Wo				5.89	
Working	take to pieces	-		-	50.10m/Di			<u> </u>	16.70	
Wor	Moving of water	:		_	50.10 _{m/Ne}	>+ F	rillino	n Davie		
	Road · others	8°00'	-	6.7				Days	20.04	m/uay
	G ·Total	120°00'	_	100	Total wor	kers	s/ 5	0.10 m	9.60	Man/m
Ġ	Pipe Size & Meterage	Inserted Length Drilling	, Reco	very of	Total Drilling	Worl	cers/ ⁵	0.10 m	2.81	Man/m
serted		Length	, Jasi	ing Tipe	:	Dri	lling o	of Size	:	
Ins	BW-CP 10.50m	21.0	7 l	00 %	Bit size		BW	56-	T	
Pipe	m		%	78	Drilling	•	10.50	m 39	.60 ^m	
99 P-P	m		Z	7.	Core Leng	th	-		.80	
Casing									L_	
ိ								•		
	.,			· · · · · · · · · · · · · · · · · · ·						

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STREET, STREET, SQ				-		W. Communication of the latest			-		
rd		1	Perio	d		Number of Days	Wo	tual rking ays	Day C	ff N	Total umber of Workers
Period	Preparation	9th AUG.	88~1	lth A	UG. 188	3		3	~-		120
1 7	Drilling	llth AUG.	¹88∿	13th	AUG.'88	3	. :	2.5			47
Working	Removing					_		-			
13	Total	9th AUG.	88∿1	lth A	WG.'88	6		5.5			167
	Dept	h of Dril	ling			Core Rec	over	y for e	ach 1	00 m s	ection
Length	Planned Length	50.00 ^m	Over burd	1	m	Depth of Hole		Secti	on	Т	otal
	Increase or Decrease in Length	e in U.20 Length			34.10 m	0∿50.20	m	84.2	2 % %	84	4.2 % %
Drilling	Length Drilled	50.20 ^m		very	84.2	<u> </u>	m		7 7	<u> </u>	
 	Drilling	40°30'H	73	.6 %	45.0 %		m		%		%
	Out Drilling	14°30'	26	. 4	16.1		177		7.		7.
	Regain of Accident				-	Ef	fici	ency of	Dril	ling	
Time	Total	55°00'	10	0	61.1	50.20 m/W	orki	ng Peri	od	8.3	7 m/day
	Construct	27°00'		- İ	30:0	50.20 m/W	orki	ng Days		9.13	3 m/day
Working	take to pieces	-		- i		50.20m/D	rill	ing Per	iod	16.73	3 m/day
Wor	Moving of water	-	-	<u>-</u> j		50.20m/N	et D	rilling	Days	20.0	3 m/day
	Road · others	8°00′	-	-	8.9					2 2	3 Man/m
	G · Total	90°00'		-	100	Total wor	kers).20 m	3,3.	man/m
	Pipe Size & Meterage	Inserted Length Drilling	7		overy of ing Pipe	of Drilling Workers/ 30.20 m 0.93				3 Man/m	
erted	Heterage	Length					Dri	lling o	f Siz	e	
Insc	BW-CP 12.80 ^m	25.5	78	1	00 %	Bit size		BW	56	-r	
Pipe	m		78		7.	Drilling		9.70	m 40	.50 m	·
	m		7,		7,	Core Leng	th	0.00	34	.10	
Casing				***			,	.— —			-
ä									•		

		Charles on the State of the Sta	Period	Park Control of the C	Number of	Actual Working	Day (Total Off Number o
eriod	Preparation	10+1-000	1 100- 20-	L cam I co	Days	Days		Workers
Per			1.¦88∿22nd		4	4	-	93
gu	Drilling	22nd OCT	.'88∿25th	OCT.'88	4 .	3	-	72
Working	Removing	lst NOV.	'88∿6th N	0V.'88	12	12		275
	Total	19th OCT	.'88∿6th	NOV.'88	20	19	_	440
	Dept	h of Dril	ling		Core Rec	overy for	each 10	00 m section
Length	Planned Length	50.00	Over- burden	m	 	Sect		Total
	Increase or Decrease in Length	0.30 m	Core Length	ш 34.70	0∿50.30	m 84.	8 %	84.8 %
Drilling	Length Drilled	50.30 m	Core Recovery	% 84.8		m	78	7.
	Drilling	34°30' H	58.5	14.9		m	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
	Out Drilling	24°30'	41.5	10.6		m	78	<u>~</u>
	Regain of Accident	-	· -		Ef	ficiency o	1	
Time	Total	59°00'	100	25.5.	<u> </u>	rking Peri		2.52 m/day
60	Construct	36°00'	-	15.5	} -	rking Days		2.65 m/day
Morkin	take to pieces	_	-	1	!	illing Per		12.58 m/day
Wox	Moving of water	-	-			t Drilling		
	Road · others	137°00'	-	59.0	30.30 m/Re	er priliting	Days	16.77 m/day
	G ·Total	232°00'	-	100	Total worl	kers/ 5	0.30 m	8.75 Man/m
erted	Pipe Size & Meterage	Inserted Length Drilling Length	, Reco	overy of ng Pipe	Total Drilling V	Vorkers/	50.30 m	
Inse	BW-CP 9.40 m	18.7	2	100 %	Bit size	BW		
Pipe]	7.40 m	10.7	7.	100 [%] %	Drilling	9.40		. 90 ^m
	in		7.	78	Core Lengt			.70
Casing				,,		- 0.00		-70
Ca	:					· ·		

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יסי			Perio	od			Number of Days	Wo	tual orking Days	Day (eff	Total Number Worke	
Period	Preparation	18th OCT	. 1881	√20 ch	OCT. 8	3	3		-3	-		105	
80	Drilling	20th OCT	'∙ '88^	√22nd	OCT. '8	3	3		2	-		48	
Workin	Removing						_	<u> </u>	-				
13	Total	18th OCT	. '88	√22nd	OCT. '8	3	6		5 .			153	
	Dept	h of Dril	ling				Core Rec	ove	ry for	each 1	00 m	section	n
Length	Planned Length	m 50.00	Over burd		:	m	Depth of Hole		Sect	ion		Total	
1 1	Increase or Decrease in Length	0.10	Core		38.10	m	0∿50.10	m m	85.	8 _% %		85.8	7 %
Drilling	Length Drilled	50.10 m	Core Reco	very	85.8	%		.; m m		% %			73 78
	Drilling	29°00' H	65.	.9 %	37.2	%		m					78
	Out Drilling	15°00'	34.		19.2			m		73			73
	Regain of Accident	-	_	-	— 		Ef	fici	iency o	f Dril	ling		
Time	Total	44°00'	10	00	56.4		50.10 m/Wo	orki	ng Peri	od	8.	35 m/da	av
	Construct	27°00'	-	•	34.6		50.10 m/Wo	orki	ng Days		 	02 m/d.	
Working	take to pieces	~-		-	-		50.10 m/Di	ri11	ing Per	riod	ļ	70 m/d	
Wor	Moving of water	-		-	_		50.10 m/Ne				 	05 m/da	
	Road · others	7°00'	-	-	9.0		JU. 10 M/ No			, Days			\dashv
	G ∙Total	78°00'	_	-	100		Total wor	kers	50	0.10 m	3.	05 Man	/m
şđ	Pipe Size & Meterage	Inserted Length Drilling	97		very of ng Pipe		Total Drilling V	Work	cers/50).10 m	0.	96 ^{Man} ,	/m
serted		Length					•	Dri	lling o	of Size			
ä	BW-CP 5.70 m	11.4	7		100	%	Bit size		BW	56-	T .	,	\neg
Pipe	m		%			7	Drilling		5.70	m 44.	40 ^{tt}		
8 P	m		7.			73	Core Lengt	th	0.00	38.	10		\neg
Casing					-			·					

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					and the second second second second			-				
ď]	Perio	d		Number of Days	Wo	tual rking ays	Day (off N	Total umber Worke	οf
Period	Preparation	15th OCT	. '88₁	17th	OCT.'88	3		3	-		115	
	Drilling	18th OCT	.¹88∿	-20th	OCT. 188	3		2.5			60	
Working	Removing	:						~~				
M,	Total	15th OCT	. ¹88¹	20th	OCT. '88	6		5.5	-		175	
	Depti	n of Dril	ling			Core Rec	ovei	y for	each 1	00 m s	ectio	n
ngth	Planned Length	m 50.00	Over- burd		m	Depth of Hole	:	Sect	ion	7	otal	
Drilling Length	Increase or Decrease in Length	0.30 m	Core Lengt		m 42.40	0 ∿ 50.30	m m	88.	1 %	. 488	3.1	% %
Drill	Length Drilled	m 50/30	Core Reco		% 88.1		m		% %			7 7
	Drilling	35°00¹H	63	3.6 [%]	38.9 %		m		7.			78
	Out Drilling	20°00'	36	5.4	22.2	1.	m		7.			7.
	Regain of Accident	-		-	_	Ef	fic	iency o	f Dril	ling	* .	
Time	Total	55°00!	10	00	61.1	50.30 m/W	orki	ng Per	iod	8.3	8 m/d	lay
	Construct	27°00'	-	•	30.0	50.30 m/W	orki	ng Day	s .	9.1	5 m/d	lay
Working	take to pieces	<u> 1. 19</u>	-		-	50.30 m/D	rill	ing Pe	riod	16.7	7 m/c	lay
Wor	Moving of water	_	-	-		50.30 m/N	et D	rillin	g Days	20.1	2 m/d	lay
	Road · others	8°00'	-	•	8.9							
	G · Total	90°001	-	-	100	Total wor	ker	s/ 5 	0.30 m	3.4	8 Mar	1/m
rej	Pipe Size & Meterage	Inserte Length Drillin	7		overy of ing Pipe	f Drilling Workers/ 50.30 m 1.19					9 Mar	ı/m
erted	necerage	Length		000			Dr	illing	of Siz	e .		
Ins	BW-CP 2.50 m	5.0	%		100 %	Bit size		BW	58	.—Т		
Pipe	n		7		7.	Drilling		2.50) ^m 47	.80 ^m		
	m.		-%		%	Core Leng	gt:h	0.30) 42	2.10		
Casing											٠.	
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Miamo													
Şđ			Perio	od			Number of Days	W	ctual orking Days	Day	Off	Tota Numbe Work	er of
eriod	Preparation	12th OC	r.'88	\14tl	h OCT.'	88	3		3	_		9:	5
ng P	Drilling	15th OC'	r. '88	v17t1	n OCT. '8	38	3		3			72	2
Workin	Removing	THE PARTY OF THE P			***************************************								
3	Total	12th 00	r. '88^		OCT. '8	 38	6		6			167	7
Annual Control	Dept	h of Dril	ling		- 100	-	Core Reco	ove	rv for e	ach 1	00 m	-17:30C	
Length	Planned Length	50.00	Over- burde			m	Depth of Hole		Secti			Total	
4 1	Increase or Decrease in Length	0.10	Core Lengt	th	45.70	m	0 ∿ 50.10	m m	93.3	7 7		33.3	% %
Drilling	Length Drilled	50.10 m	Core Recov	ery	93.3	%		m		7 ₈			7 7
	Drilling	41°30'H	62.	9 %	40.7	ઢ		m		7°			7
	Out Drilling	24°30'	37.	1	24.0			m		78			7/2
ì l	Regain of Accident	~			-		Eff	icí	ency of	Dril	ling		
Time	Total	66°00'	10	0	64.7		50.10 m/Wo	rki	ng Perio	od	8.3	5 m/c	day
	Construct	27°00'			26.5		50.10 m/Wor	rki	ng Days		8.3		day
Working	take to pieces		_		_		50.10 m/Dr	i11.	ing Peri	od	16.7		day
1	Moving of water				<u> </u>		50.10 m/Net	t Di	rilling	Davs	16.7		lav
	Road · others	9°00'	-		8.8	_					10.7	0	
	G ·Total	102°00'	-		100		Total work	ers	/ 50.	10 m	3.3	3 Мат	n/m
erted	Pipe Size & Meterage	Inserted Length Drilling Length	g]		very of ng Pipe		Total Drilling Wo					4 Mar	1/m
ואורי						_		Jri.	lling of				
	BW-CP 1.50 m	3.0	%	1		Z	Bit size		BW	56-	T _e	. :	
Pipe	m		2			7	Drilling		1.50 m	48.	60 m		
ng l	m		7.		. 7	2	Core Length	n	0.40	45.	30		
Casing													

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1	İ		n		Number	Actual			Total
			Period		of	Working	Day	Off 1	Number of
13					Days	Days	ļ		Workers
Period	Preparation			h SEP. 188		4			110
ing	Drilling	29th SE	B.¹88∿30t	h SEP. 188	2	2			60
Working	Removing				•	-			
	Total	25th SE	P.'88~30t	h SEP. '88	6	6	-		170
	Dept	h of Dril	ling		Core Rec	overy for	each 1	00 m s	
Length	Planned Length	50.00 m	Over- burden	m	Depth of	Sect			Cotal
Fi	Increase or	To.	Core	m	Hole 0∿50.20	m 96.	0		
108	Decrease in	0.20	Length	46.10	0.30.20	m 96.	7	90	5.0 _%
Drilling	Length		2011,8211			m	Z		7.
Ξ	Length	m	Core	7.		щ	7,		7,
 	Drilled	50.20	Recovery	96.0		m	7.	 	Z
	Drilling	25°30'H	58.0 [%]	29.0 %		m .		 	7 7
	Out Drilling	18°30'	42.0	21.0		m	7.		78
	Regain of Accident	-	_	-	Ef	ficiency o		l ling	/6
Time	Total	44°00'	100.	50.0	50 00 M/Wo	rking Peri	od	- -	
1 1	Construct	36°00'	-	40.9		rking Days		8.37	
Working	take to pieces	-	-	-		illing Per		8.37	
Wor	Moving of water		-		<u> </u>			25.10	
	Road · others	8°00'	-	9.1	JU.ZU m/Ne	t Drilling	Days	25.10	m/day
	G ·Total	88°00'	_	100	Total work	ers/ 50).20 m	3.39	Man/m
		Inserted			Total				
	Pipe Size &	Length	Z Reco	very of		lorkers/ 50).20 m	1.20	Man/m
red	Meterage	Drilling	Casi (°	ng Pipe		· · · · · · · · · · · · · · · · · · ·			
serted		Length				Drilling o	f Size	2	-
Ins	ви-ср 3.50 ш	7.0	%	100 %	Bit size	BW.	56-	-т	
Pipe	n		7.	7.	Drilling	2.60	m 47	.60 ^m	
18 P	m	:	7.	%	Core Lengt	h 0.40	45	.70	1.1
Casing					··		 -		
Ca				<u> </u>					

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· ·	-		7-0								
ָּם			Period			Number of Days	Wo	ctual orking Days	Day	Off	Total Number of Workers
Period	Preparation	21st SEP	'88∿26	th	SEP. 88	6	:	6	_		210
	I Day 11 i ma	27th SEP	¹88∿28	th	SEP. 188	2		2			68
Working	Removing					_		-			
3	Total	21st SEP	. ¹88∿28	th	SEP. 88	8		8			278
	Dept	h of Dril	ling	· · · · · · · · · · · · · · · · · · ·		Core Rec	ove	ry for	each 1	00 m	section
Length	Planned Length	m 50.00	Over- burden	1	m	Depth of Hole		Sect	ion		Total
Drilling L		0.30	Core Length		m 48.40	0∿50.30	m	99.	8 % %		99.8 % % % % % % % % % % % % % % % % % % %
Dril	Length Drilled	50.30 m	Core Recove	ry	% 99.8		m		% %		% %
	Drilling	26°00'H	59.1	7.	24.1 %		m		7.		Z
	Out Drilling	18°00'	40.9		16.7		m		7.		%
	Regain of Accident	_	**		· <u> </u>	Ef	fic:	iency o	f Dril	ling	
Time	Total	44°00'	100		40.8	50.30 m/Wo	rki	ng Peri	lod	6	.29 m/day
	Construct	36°00'	_		33.3	50.30 m/Wc	rki	ng Days	······································	 	.29 m/day
Working	take to pieces	: 14	_	\perp		50.30 m/Dr	i11	ing Per	iod	├ ──	.15 m/day
No.	Moving of water		<u> </u>		_	50.30 m/Ne	- D	rillino	Nave	ļ	.15 m/day
	Road · others	28°00′	_		25.9	30.30/			, Days	23	,15 m/day
	G ·Total	108°00'	· <u>-</u>		100	Total worl	kers	5	0.30 m	5	.53 Man/m
ed	Pipe Size & Meterage	Inserted Length Drilling	y Re		very of ng Pipe				1	.35 Man/m	
serred		Length				Drilling of Size				*: *:	
L L	BW-CP 1.80 m	3.6	7.	10	00 [%]	Bit size		BW	56	-Т	
Pipe	m		%		2	Drilling		1.80	m 4	8.50 ⁿ	1
	m		7		78	Core Lengt	h	0.00	4.	3.40	
Casing											

JMC-14

·											
q			Period	:	Number of Days	Wo	tual rking Days	Day	Off	Total Number Worke	
Period	Preparation	27th SEP	.'88∿30tl	n SEP. 188	4		. 4 .		_	113	
	Drilling	1st OCT.	'88∿3rd (OCT.'88	3		2.5		-	75	
Working	Removing						_	-	-	-	
M	Total .	27th SEP	.'88∿3rd	OCT.'88	7		6.5		-	188	
	Dept	h of Dri1	ling		Core Rec	over	y for	each	100 m	sectio	n
Length	Planned Length	m 50.00	Over- burden	· m	Depth of Hole		Sect	ion		Total	
	Increase or Decrease in Length	0.20	Core Length	47.60	0∿50.20	m m	95		% %	95.6	7 7
Drilling	Length Drilled	50.20 m	Core Recovery	7 95.60		m			7 7		7. 7.
	Drilling	35°30, ^H	64.5	35.5		m	•		73		78
	Out Drilling	19°30'	35.5	19.5		m			%		78
	Regain of Accident	-	33.3	-	Ef	fici	iency o	f Dri	illing		
Time	Total	55°00'	100	55.0	50.20 m/W	orki	ng Per	iod	-	.17 m/d	ay
	Construct	36°00'		36.0	50.20 m/W	orki	ng Days	s		.73 m/d	ay
Working	take to pieces		-	_	50.20 m/D					.73 m/d	
Wox	Moving of water	·-	_	_	50.20 m/N	et D	rillin	Day		.08 m/d	
	Road · others	9.00	_	9.0							
	C · Total	100°00'	· 	100	Total wor	kers	s/ 50 	.20	m 3	.75 ^{Man}	./m
ed	Pipe Size & Meterage	Inserted Length Drilling	g Re	covery of sing Pipe	Total Drilling	Worl	cers/50	20	m 1	.49 ^{Man}	ı/m
serted		Length				Dri	illing	of Si	ize		
Ins	BW-CP 1.60 m	3.2	7.	100 %	Bit size		BW	1	56-T		
r be	m	:	. %	%	Drilling		1.60) ^m	48.60	m	
8 P	m		%	7.	Core Leng	t h	1.20)	46.40		
Casing Pipe					. <i>'</i>						
لـــا		L			<u> </u>						

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po			Period	<u></u> .		*******	Number of Days	W	ctual orking Days	Day	Off	Total Number of Workers
erio	Preparation	6th AUG.	¹88∿8t	h A	.UG. '88		3		3	-		195
ρ,	Drilling	9th AUG.	'88∿11	th	AUG.'8	8	3		2.5	_		44
Working	Removing		· · · · · · · · · · · · · · · · · · ·				-		-	-		_
33	Total	6th AUG.	'88∿11	ŗh	AUG.'8	8	6		5.5			239
202	Dept	h of Dril	ling		<u>, , , , , , , , , , , , , , , , , , , </u>		Core Rec	ove	ry for	each 1	00 m	section
Length	Planned Length	m 50.00	Over- burde			m	Depth of Hole		Sect	ion		Total
,	Increase or Decrease in Length	0.20	Core Lengt	h	44.80	m)	0∿50.20	m	94.	1 %		94.1 Z
Drilling	Length Drilled	50.20 m	Core Recove	ery	94.1	7,		m		%		% %
	Drilling	41°00' H	74.5	7.	45.5	7,		m	<u> </u>	78		76
	Out Drilling	14°00'	25.5		15.6			m		7.		7.
	Regain of Accident		_				Ef	fic	lency of	Dril	ling	
Time	Total	55°00'	100		61.1		50.20 m/Wo	rki	ng Peri	od	8.	37 m/day
3 1	Construct	27°00'			30.0		50.20 m/Wo	rki	ng Davs		-	12 m/day
Working	take to pieces	_	_		_		50.20 m/Dr					73 m/day
Wor	Moving of water	-	_				50.20 m/Ne	t D	rilling	Dave		08 m/day
	Road · others	8°00'	_		8.9		in the second		LITTING	Days		oo m/day
	G · Total	90°00'	_		100		Total work	cers	/ 50	.20 m	4	.76 Man/m
pa	Pipe Size & Meterage	Inserted Length Drilling	₇ R		very o ng Pip		Total Drilling W	lork	ers/ 50	.20 m	0	.88 ^{Man/m}
serted		Length						Dri	lling o	f Size		
描	BW-CP 2.60 m	5.2	%		100	7.	Bít size		BW	56-	Т.	
Pipe	II .		7			%	Drilling		2.60	m 47	.60 n	
80 80	m		7,			%	Core Lengt	h	0.00	44	. 80	
Casing									•			

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		<u> </u>	Period		Number of	Actual Working	Day		Total umber of
70					Days	Days	Day		Workers
Period	Preparation	12th AUG	G.'88∿l3tl	h AUG.'88	2.	2	-		135
	Drilling	14th AUG	G.'88∿15t1	n AUG. 188	2	2			35
Working	Removing						_		
	Total	12th AUC	.'88∿15tl	a AUG.'88	4	4	_		170
	Dept	h of Dril	ling		Core Rec	overy for	each i	00 m s	ection
Length	Planned Length	50.00 ^m	Over- burden	ın.	Depth of Hole	Sect	ion	T	otal
	Increase or	m	Core	m	 	Om 96.	8 %	96	.8 %
ing	Decrease in Length	0.20	Length	44.70		m			7
Drilling	Length	n.	Core	7,		m	- %	ļ	7
Ä	Drilled	50.20	Recovery	96.8		m	78	ļ — —	
	Drilling	32°00', H	72.7	47.1		m	- 78		78
	Out Drilling	12°00'	27.3	17.6		m	7,		7,
	Regain of Accident	<u>.</u>	-	-	Ef:	ficiency o	f Dril	ling	
Time	Total	44°00'	100	64.7	50.20 m/Wo	rking Per	iod	12.55	m/day
1 1	Construct	18°00'	-	26.5	m /IIo	rking Days	······································	 	m/day
Working	take to pieces	-	_		30.20	illing Per		12.55	m/day
Wor	Moving of water	_	-	-				25.10	
	Road · others	6°00'		8.8	50.20 m/Ne	t Drilling	g Days	25.10	m/day
	G ·Total	68°00'	-	100 .	Total work	kers/ 50	·20 m	3.39	Man/m
serted	Pipe Size & Meterage	Inserted Length Drilling Length	Reco	overy of ng Pipe	Total Drilling V	Vorkers/ ₅₀		<u>L</u>	Man/m
Ins	BW-CP 4.00 m	7.9	7,	100 %	Bit size	BW	56-	-T	
	m		2	7 7	Drilling	4.00			
Pipe	er e dej m		78		Core Lengt			. 20 ¹¹¹	
Casing	······································								
Cas		·			:		·		: }
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po			Period		Number of Days	Wor	ual king ays	Day 0	ff	Total Number of Workers
eri	Preparation	14th AUG	.'88∿15th	AUG. '88	2	1	2			85
ואם	Drilling	16th AUG	.'88∿17th	AUG. 188	2	: :	2		}:	35
Working	Removing		:			-	-			
3	Total	14th AUG	.'88∿17th	AUG. 188	4	l	4			120
	Dept	h of Dril	ling		Core Rec	over	y for	each 1	00 m	section
Length	Planned Length	50.00	Over- burden	m	Depth of Hole		Sect	ion	:	Total
60	Increase or Decrease in Length	. 0.20 m	Core Length	33.90 m	0 ∿ 50.2	O m	83	.5 % %		83.5 %
Drillin	Length Drilled	m 50.20	Core Recovery	83.5	: .	m m	. 	7 7		% %
	Drilling	31°30' H	71.6 %	46.3 %		m		78		%
	Out Drilling	12°30'	28.4	18.4		m	,	7,		7.
	Regain of Accident	-	-		Ef	fici	ency o	f Dril	ling	
Time	Total	44°00'	100	64.7	50.20 ^m /W	orkin	ıg Per	iod	1.2.	55 m/day
50	Construct	18°00'		26.5	50.20 ^m /W	orkit	ng Days	3	12.	55 m/day
Workin	take to pieces	_	_		50.20 ^{m/D1}	illi	ng Per	ciod	25.	10 m/day
Wo	Moving of water	-	-		50.20 ^m /N	et Dr	illing	g Days	25.	10 m/day
	Road · others G · Total	6°00'		100	Total wor	kers	/ 50).20 m	2	39 Man/m
rp i	Pipe Size & Meterage	Inserted Length Drilling	, Rec	overy of ing Pipe	Total Drilling	Work	ers/50).20 m	0.	70 Man/m
erted		Length				Dri.	lling	of Siz	e .	
Ins	BW-CP 2.30 m	4.6	%	100 %	Bit size		BW	56	T .	
Pipe	m		%	7.	Drilling		2.00	^m 48	.20 ^m	
	m		%	7.	Core Leng	th	0.00	33	.90	
Casing										
لسب					<u> </u>					

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קי			Period	And as a chick a proper proper memory and	Number of Days	Wo	tual rking ays	Day (off	Total Number Worke	o£
Period	Preparation	18th AUG	'88∿20th	AUG. 188	3		3			135	
1	Drilling	20th AUG	'88∿22nd	AUG. 188	3	2	.5	-		56	
Working	Removing	**************************************			-		-				
3	Total	18th AUG.	¹88∿22nd	AUG. '88	6	. 5	.5			191	
	Dept	h of Dril	ling		Core Rec	over	y for e	ach 1	00 m	sectio	on .
Length	Planned Length	т 50.00	Over- burden	u	Depth of Hole		Secti	on		Total	
illing L	Increase or Decrease in Length	0.10 m	Core Length	45.80	0∿50.10	m m	98.	3 %		98.3	. %
Dril]	Length Drilled	50.10 m	Core Recovery	98.3		m m		% %			7,
	Drilling	30°00' H	69.8 [%]	38.9		m		- % %			7. 7.
	Out Drilling	13°00'	30.2	16.9		m		7,			7,
	Regain of Accident		-	_	Ef	fici	ency of	Dril	ling		
Time	Total	43°00'	100	55.8	50.10 m/Wc	rkir	ng Perio	od	8.	35 m/d	27
60	Construct	27°00'	-	35.1	50.10 m/Wc	rkir	12 Davs			11 m/d	
Workin	take to pieces	-		-	50.10 m/Dr			.od		70 m/d	
Wor	Moving of water	-	-	-	50.10 m/Ne		<u>:</u>			04 m/d	
	Road · others	7°001		9.1	JU.10 m/Ne	- D	TITITIE	Days	20.	υ 4 π/α	.ay
	G ∙Total	77°00¹	-	100	Total work	kers,	/ 50.	10 m	3.	81 Man	ւ/ա
ted	Pipe Size & Meterage	Inserted Length Drilling	Reco	very of	Total Drilling V	lorke	ers/50.	10 m	1.	11 ^{Μαπ}	./ш
[유]		Length		:		Dri	lling o	f Size	!		
	вW-CP 12.50 ^ш	24.9	, %	100 %	Bit size		BW	56-	-T		
Pipe	m		2	%	Drilling		3.50	n 46.	60 ^{II}	1	_
д. 00	m.		2	Z	Core Lengt	th	0.00	45.	80	<u> </u>	
Casing						- , 	,		-,**	<u> </u>	

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-	_						<u> </u>			
		:	Period		Number of Days	Wo	tual rking Days	Day (ef	Total Number of Workers
Period	Preparation	1st SEP.	'88∿4th \$	SEP.'88	4		4	-		136
	Drilling	4th SEP.	¹88∿6th 5	SEP,'88	3		2.5		\neg	82
Working	Removing				-			_		
W	Total	lst SEP,	¹88∿6th \$	SEP.'88	7	6	5.5	₩.		218
	Dept	h of Dril	ling		Core Rec	over	y for	each 1	00 m.	section
Length	Planned Length	m 50.00	Over- burden	m	Depth of Hole		Sect	ion		Total
	Increase or Decrease in Length	0.20 m	Core Length	m 48.30	0 ∿ 50.2	m (0.1	98.	2 %		98.2 % %
Drilling	Length Drilled	m 50.20	Core Recovery	98.2		m m		% %		% %
	Drilling	30°30' H	55.5	30.5		m	2.1	78		7.
	Out Drilling	24°30'	44.5	24.5		m		7		7
	Regain of Accident	-		-	Ef	fici	ency o	f Dril	ling	· · · · · · · · · · · · · · · · · · ·
Time	Total	55°00'	100	55.0	50.20 m/W	orki	ng Peri	od	7.1	7 m/day
	Construct	36°00'		36.0	50.20 m/Wo	orki	ng Days	3	7.2	3 m/day
Working	take to pieces	-	-	-	50.20 m/D	ril1	ing Per	riod	16.7	3 m/day
Wor	Moving of water	4.	-		50.20 m/Ne	et D	rilling	Davs	20.0	g m/day
	Road · others	9°00	-	9.0	30.20-,					
	G ·Total	100°00'		100	Total wor	kers	/ 5	50.20m	4.3	4 Man/m
p	Pipe Size & Meterage	Inserted Length Drilling	Rec	overy of ing Pipe	Total Drilling	Work	ers/	50.20m	1.6	3 Man/m
erted		Length				Dri	lling o	of Size	3	
Ins	BW-CP 1.50 m	2.9	7.	100 %	Bit size		BW	56-	-T	
Pipe	ш		73	7,	Drilling		1.50	m 48	3.70 ^m	
	m		7.	7.	Core Leng	th	0.50	47	7.80	
Casing										e Linear

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							-	-				
'n		·	Perio	od 		Number of Days	Wo	tual rking Days	Day (eff 1	Tota Numbe Work	r of
Period	Preparation	7th SEP.	¹88∿9	9th S	EP. 88	3		3			85	
•	Drilling	9th SEP.	¹88∿]	llth	SEP.'88	3	7	2.5	-		103	
Working	Removing				~	-			_			
3	Total	7th SEP.	188∿1	llth	SEP. '88	6	:	5.5	-		188	
	Dept	h of Dril	ling			Core Rec	ove	y for	each 1	00 m :	secti	on.
Length	Planned Length	50.00 m	Over burd		m	Depth of Hole		Sect	ion		[otal	
	Increase or Decrease in Length	0.20 ^m	Core Leng		49.20 ^m	0 ~ 50.2	Om m	98.	8 %	9	8.8	7 7
Drilling	Length Drilled				% 98.8		m		7,			7 7
-	Drilling	35°00' H	68.	6	38.9		m		% %			%
	Out Drilling	20°00'	36.		22.2		m		78			Z
	Regain of Accident	-	-	_	-	Ef	fic	iency o	f Dril	ling		
Time	Total	55°00'	10	00	61.1	50.20 m/W	orki	ng Per	iod	8.3	7 m/	'day
	Construct	27°00'	-	-	30.0	50.20 m/Wo			Days			day
Working	take to pieces	-	-		-	50.20 m/D	rill	ing Per	riod	16.7	3 m/	day
Wor	Moving of water		-	•		50.20 m/N	et D	rilling	g Days	20.0	8 m/	'day
	Road others	8°00'		-	8.9							
	G · Total	90°00'	-	-	100	Total wor	ker	s/ 5(0.20 m	3.7	5 Ma	ın/m
្ដថ្ម	Pipe Size & Meterage	Inserted Length Drilling	7		overy of ing Pipe	Total Drilling	Worl	kers/50	0.20 դ	2.0)5 ^{Ma}	m/m
serted		Length					Dr	illing	of Siz	2		
Ins	BW-CP 1.80 m	3.6	%	%	100 %	Bit size		BW	56	-T		
Pipe	m		7.	7.	Drilling		1.80	m 48	.40 ^m			
	m		7,	٠.	8	Core Leng	th	1.40	47	.80		
Casing												
						<u> </u>			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		 	

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p Q			Peri	od			Number of Days	W.	ctual orking Days	Day	Off	Total Number o Workers
eriod	Preparation	12th SEP	' '88	%14th	SEP.	88	3		3, .	-		122
ng P	Drilling	14th SEF	. 188	∿16th	SEP.	88	3		2.5			79
Workin	Removing	17th SEP	. '88	∿17th	SEP.	88	1	•	1		·	. 3
is.	Total	12th SEP	. 188	∿l7th	SEP.'	38	7		6.5			204
200	Dept	h of Dril	ling				Core Rec	ove	ry for e	each 1	00 m	section
Length	Planned Length	m 50.00	Over bure	_		m	Depth of Hole		Secti	ion		Total
ing	Increase or Decrease in Length	0.30	Core	-	45.80	m)	0 ∿ 50.30	m	93.9	7. 7.	- 1	93.9 %
Drill	Length Drilled	50.30 m	Core	very	93.9	%		m		7 7		7,
	Drilling	29°00' ^H	46.	.1 %	29.5	7,		m		<u>/s</u> %		
	Out Drilling	25°00'	39.	.8	25.5			m		%		
	Regain of Accident	9°00'	14.	. 1	9.0	-	Efficiency of Drillin					
Time	Total	64°00'	100)	64.0		50.30 m/Wo	rki	ng Peri	od	7.	19 m/day
	Construct	27°00'		-	27.0		50.30 m/Wo			·		74 m/day
Jorking	take to pieces			- [_		50.30 m/Dr					76 m/day
ĮŠ,	Moving of water	-	_	-	-		50.30 m/Ne	r D	rilling	Dava	L	12 m/day
	Road · others	9°00'		-	9°00	'	m/Ke		TITING	Days		m/day
	G ·Total	100°00'	-	-	100		Total work	ers	/ 50.	.30 m	4.	06 Man/m
ed	Pipe Size & Meterage	Inserted Length Drilling	97		very of		Total Drilling W	ork	ers/50.	.30 m	1.	57 Man/m
serted		Length						Dri	lling of	f Size		
티리	BW-CP 2.30 ^m	4.6	78	10	00	%	Bit size		BW	56-	T	
Pipe	n		78			2	Drilling		1.50 ¹	n 48.	. 80 TE	
8 8	· n		7.			%	Core Lengt	n	0.00		.80	
Casing												

Operational Results by Drill Hole

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, q			Peri	od		Number of Days	W	ctual orking Days	Day	Off	Tota Numbe Work	er of
eriod	Preparation	19th SEP	. 1881	22nd	SEP.'88	4		4			12:	
ng P	Drilling	22nd SEP	.1881	24th	SEP.'88	3	 	2.5			70	 O
Workin	Removing					<u> </u>	 -	_	_		<u> </u>	
3	Total	19th SEP	.'88∿	24th	SEP. '88	7	 	6.5	· .		195	
	Dept	h of Dril	ling			Core Re	ove	ry for e	ach 1	00 m		on
Length	Planned Length	50.00 m	Over burd		т			Secti	······································		Total	
illing L	Increase or Decrease in Length	0.20 m	Core Leng		49.00	0∿50.20	m	99.6	7 7		99.6	7
Dril]	Length Drilled	m 50.20	Core Reco	very	99.6		m		7.		···	7,
	Drilling	30°30'H	55.	. 5 %	30.5 %		m		% %		· ·	7 7
	Out Drilling	24°30'	44.	. 5	24.5		m					- ^2 %
	Regain of Accident	-	-	-	-	Ef	fici	ency of		ling		70
Time	Total	:55°00'	100)	55.0		50.20 m/Working Per				17 m/	d 222
2 I	Construct	36°00'		·	36.0	50.20 m/W						day
171	take to pieces	-				50.20 m/D			od	16.	/	day
1 T F	Moving of water	-				50.20 m/N		·			08 m/s	
	Road · others	9°00'			9.0	J			24/3	20.	00 ш/	uay
	G • Total	100°00'	_		100	Total wor	kers	50.	.20 m	3.	88 Ma	n/m
eđ	Pipe Size & Meterage	Inserted Length Drilling	.,		very of ng Pipe	Total Drilling	Work	ers/ 50.	20 m	1.	39 ^{Ma}	n/m
serted		Length			-		Dri	lling of	ESize			
ដ	BW-CP 2.10 m	4.2	78		100 %	Bit size		BW	56-	Τ.		
Pipe	m		7.		7.	Drilling		2.10	1 4.	8.10 th		
gu	m		7,	·	7.	Core Leng	th	1.10	4	7.90		
Casing			, h						:			

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-	April Machines and Community of the Comm						_				
٩			Perio	od		Number of Days	We	ctual orking Days	Day (off 1	Total Number of Workers
Period	Preparation	16th SEP	.'88∿	19th	SEP. 188	4		4	-		105
	Drilling	20th SEP	. '88∿	22nd	SEP. '88	3		2.5	-		70
Working	Removing				**************************************	-		_			
	Total	16th SEP	.¹88∿	22nd	SEP. '88	7		6.5	-		175
	Dept	h of Dril	ling			Core Rec	ove	ry for	each 1	00 m	section
Length	Planned Length	50.00 m	Over burd		. п	Depth of Hole		Sect	ion		[otal
60	Increase or Decrease in Length	0.10	Core Leng		m 39.70	0 ∿ 50.10	m m	98.	0 % %		98.0 Z
Drillin	Length Drilled	50.10 ^m	Core		98.0 %		m		7.		7,
P	prilled		кесо	very			m		%		2
	Drilling :	29°30' ^H	53.	6 %	29.5 %		m		%		%
	Out Drilling	25°30'	46.	4	25.5		m		%		78
	Regain of Accident	-	-		-	Ef	fic	iency o	f Dril	ling	
Time	Total	55°00'	10	0	55,00	50.10 m/Wo	rki	ng Peri	od	7.1	6 m/day
	Construct	36°00'			36.00	50.10 m/Wo	rki	ng Days		7.7	l m/day
Working	take to pieces	~	_			50.10 m/Dr	ill	ing Per	iod	16.7	o m/day
Wo	Moving of water	-	· -			50.10 m/Ne	et D	rilling	Days	20.0	4 m/day
	Road · others	9°00'	·	• •	9.00						
	G · Total	100°00'	-		100	Total wor	ker:	s/ 5	0.10 m	3.4	9 Man/m
d	Pipe Size & Meterage	Inserted Length Drilling	7		very of ng Pipe	Total Drilling	lorl	cers/ 5	0.10 m	1.4	O Man/m
erted		Length			-1- 6	1	Dri	llling	of Size	3	
l w	BW-CP 9.60 m	19.2	2	1	00 %	Bit size	-	BW	56	-T	
ipe	m		7.		%	Drilling		9.60	m 40	.50 ^m	
ig Pi	មា		78		7.	Core Leng	t h	0.00	39	. 70	
Casing						:					

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	<u> </u>				T .; ;	T				
70			Period		Number of Days	Wo	tual rking ays	Day (Off N	Total umber of Workers
Period	Preparation	21st AUG	. ¹88∿22nd	AUG.'88	2		2			95
	Drilling	22nd AUG	.¹88∿24tl	AUG.'88	3	2	.5	-		50
Working	Removing				-			_		-
	Total	21st AUG	.¹88∿24tl	AUG. 188	5	4	.5	_		145
	Dept	h of Dril	ling		Core Rec	over	y for e	each 1	00 m s	ection
Length	Planned Length	50.00	Over- burden	m	Depth of Hole		Secti	ion	Т	otal
Drilling Le	Increase or Decrease in Length	0.30	Core Length	44.30	0~50.30	m m	93.7	7 %	93,	7 _%
ri11	Length	m	Core	7.		m		7		7
Q	Drilled	50.30	Recovery	73.7		m		7,		7
	Drilling	35°30′ ^H	64.5 %	44.4 %		m		7.		7.
	Out Drilling	19°30'	35.5	24.4		m		7.		8
	Regain of Accident	-	· _	_	Ef	fici	ency of	Dril	ling	
Time	Total	55°00'	100	68.8	50.30 m/Wo	rkit	ng Peri	od	10.06	m/day
1 · I	Construct	18°00'		22.5	50.30 m/Wc	rki	ng Days	·	11.18	m/day
Working	take to pieces	· .:		-	50.30 m/Dr	rilli	ing Per	iod	16.77	m/day
35	Moving of water		-	-	50.30 m/Ne	et Di	rilling	Days	20.12	m/day
	Road · others	7°00' 80°00'		8.7	Total wor			0.30 m		Man/m
	G · Total	80 00		100			· .	0.30-	2.00	
pa	Pipe Size & Meterage	Inserted Length Drilling	7 Rec	overy of ing Pipe	Total Drilling	Work	ers/ 5	0.30m	0.99	Man/m
erted		Length		0 1		Dri	lling c	of Size	е .	
Ins	BW-CP 3.00 m	6.00	7	100 %	Bit size		BW	56	-т	
Pipe	ın.		%	78	Drilling		3.00	m 47	7.30 ^m	
8 P	n		7.	78	Core Leng	th	0.00	44	4.30	4 144
Casing										
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, po			Period			Number of Days	W	ctual orking Days	Day	Off	Total Number o Workers
Peric	Preparation	16th AU	G.'88∿17t	h AUG.'8	8	2		2	_		95
	Drilling	18th AU	G.'88∿20t	h AUG.'8	8	3		2.5	-		46
Working	Removing							_	-		
	Total	l6th AU	G.'88∿ 20	th AUG.	88	5		4.5	-	<u></u> -	141
	Dept	th of Dril	lling			Core Rec	ove	ry for e	ach 1	00 п	section
Length	Planned Length	50.00 m	Over- burden		m	Depth of Hole		Secti			Total
	Increase or Decrease in Length	0.10 m	Core Length	47.20	m	0 ∿ 50.1	O m	100	7 7		100 z
Drilling	Length Drilled	50.10 m	Core Recovery	1 00	7		m m		%		%
	Drilling	36°30'H	66.4 %	45.6	78				7. %		<u> </u>
	Out Drilling	18°30'	33.6	23.1			m		- /s Z		
	Regain of Accident	_	-	_		Eff	ici	ency of		ling	/6
Time	Total	55°001	100	68.7	1	50.10 m/Wo					00 m/d
	Construct	18°00'	-	22.5		50.10 m/Wo					.02 m/day .13 m/day
Working	take to pieces	<u> </u>		~		50.10 m/Dr			od		= /
I }-	Moving of water		<u> </u>	_	_	50.10 m/Ne		- T		16.	70
	Road · others	7°00'	- .	8.8		- 11171161	- 0	rilling	Days	20.	04 m/day
	G · Total	80°00'	-	100		Total work	ers	/ 50	.10 m	2.	81 Man/m
erted	Pipe Size & Meterage	Inserted Length Drilling Length	g Reco	very of ng Pipe		Total Drilling W				0.	92 Man/m
o F					1)r1	lling of	Size		
<u></u>	BW-CP 6.40 m	12.8		.00 %	-	Bit size		BW	56-	r ·	
Pipe	m		Z			Drilling		2.90 ^m	47.20) ^m	
sing	m		Z		L	Core Lengtl	1	0.00	43.90)	
Casi											

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		-	Table de la companya de la companya de la companya de la companya de la companya de la companya de la companya	-					
Po			Period		Number of Days	Actual Workin Days	1	Off	Total Number of Workers
eri	Preparation	22nd AUG	.'88∿25th	AUG.'88	4	4			135
9 B	The 11 days	26th AUG	.'88∿28th	AUG. 188	3	2.5			80
Working	Removing						 		_
3	Total	22nd AUG	.'88∿28th	AUG.'88	7	6.5			215
	Dept	h of Dril	ling		Core Rec	overv fo	r each 1	لــــــــــــــــــــــــــــــــــــ	
ength	Planned Length	50.00 m	Over- burden	m	·		ction		Total
-	Increase or Decrease in Length	0.20 m	Core Length	m 47.25	0 ∿ 50.2	Om 9	8.0 %		98.0 %
Drilling	Length Drilled	m 50.20	Core Recovery	98.0		m	7,		% %
	Drilling	39°00'H	60.9 %	39.0 %		m	7 7	 	
	Out Drilling	16°00'	25.0	16.0		101	<u>-</u> 7	 	
	Regain of Accident	9°00'	14.1	9.0	Efi	ficiency		l ling	/s
ime	Total	64°00'	100	64.0	50.20 m/Wo	rking Pe	riod	T -	17 - 11
용	Construct	27°00'	-	27.0	50.20 m/Wo	<u> </u>		 	.17 m/day
Working	take to pieces		-		50.20m/Dr		•	┥──	.72 m/day
Wo.	Moving of water	a.: -	-	_				 	
	Road · others	9°00'	-	9.0	50.20 m/Ne	C Drilli	ng Days	20	.08 m/day
	G ∙Total	100°00'		100	Total work	ers/	50.20 m	4	.28 ^{Man/m}
ed	Pipe Size & Meterage	Inserted Length Drilling	7 Reco	very of ng Pipe	Total Drilling W	orkers/	50.20 m	1	.59 Man/m
nserted		Length				Drilling	of Size	3	
⊢	BW-CP 2.0 m	3.9	%	100 %	Bit size	Bl	56	-T	r
Pipe	m		%	2	Drilling	2.00	m 48	20 ⁿ	
8 P	m		%	7.	Core Lengt	h 0.00		25	
Casing						— <u>l</u>			L
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-ē		Andrew State Control of the Control	Period		Number of Days	Actual Working Days	Day (Off	Total Number of Workers
Period	Preparation	28th AUG	.¹88∿30th	AUG. 188	3	3	_		110
	Drilling	31st AUG	.'88∿1st	SEP. '88	2	2 .	_	-	64
Working	Removing		-			_			
B	Total	28th AUG	.'88∿1st £	SEP. '88	5	5	<u> </u>		174
	Dept	h of Dril	ling		Core Rec	overy for	each 1	00 m	
Length	Planned Length	50.00 m	Over- burden	m	Depth of Hole	Sect	ion		Total
امها	Increase or Decrease in Length	0.20	Core Length	m 48.70	0 ∿ 50.2	0 m 100	7 %		100 %
Drillin	Length Drilled	m 50.20	Core Recovery	7 100		m n	% %		% %
	Drilling	27°00' ^H	61.4 %	35.1 %		m	7		7.
	Out Drilling	17°00'	38.6	22.0		m	7.		7
	Regain of Accident	_	-	-	Ef	ficiency o	f Dril	ling	
Time	Total	44°00'	100	57.1	50.20 m/Wc	rking Per	iod	10.	04 m/day
	Construct	27°00'	_	35,1	50.20 m/Wo	rking Day	S		04 m/day
Working	take to pieces	_			50.20 m/Dr	illing Pe	riod	25.	10 m/day
δ. V.	Moving of water	-		_	50.20 m/Ne	t Drillin	2 Days	25	o m/day
	Road • others	6°00'		7.8		······································		23.	10,
	G ∙Total	77°00'	-	100	Total work	cers/ 5	0.20 m	3.4	47 Man/m
pa	Pipe Size & Meterage	Inserted Length Drilling	Reco	very of ng Pipe	Total Drilling V	Norkers/ 5	0.20 m	1.2	7 Man/m
erted		Length			-	Drilling	of Size	: "	
	BW-CP 2.00 m	3.9	78	100 %	Bit size	BW	56-	T	
Pipe	щ		Z	7,	Drilling	2.00	m 48	. 20 ^m	
18 P	m		7	%	Core Lengt	h 0.50	48	.20	4 1
Casing									

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Ģ		,	Period		Number of Days	Wo	tual rking Days	Day (Off	Total Number Worke	of
Period	Preparation	9th SEP.	88∿11th S	EP.'88	3		3	-		100	
	Drilling	12th SEP.	'88∿14th	SEP.'88	3	2	2.5			70	
Working	Removing				-				_	-	
3	Total	9th SEP.	88∿14th S	EP.'88	6	5	5.5	-		170	
	Dept	h of Dril	ling		Core Rec	over	y for	each 10	00 m	sectio	n
Length	Planned Length	50.00 m	Over- burden	m	Depth of Hole		Sect	ion		Total	-
ling Le	Increase or Decrease in Length	0.20	Core Length	m 48.40	0∿50.20	m m	100	% %		100	7 7
Drill	Length Drilled	50.20 ^m	Core Recovery	100 %		m		% %		:	7. 7.
	Drilling	31°30' H	57.3 %	35.4 %		m	· · · · · · · · · · · · · · · · · · ·	. %			73
	Out Drilling	23°301	42.7	26.4		m	······································	7,			7
	Regain of Accident	-	· · · —	-	Ef	fici	ency o	f Dril	ling	:	
Time	Total	55°00'	100	61.8	50.20 m/Wc	rki	ng Period		8.3	7 m/d.	av
	Construct	27°00'	_	30.3	50.20 m/Wc	rki	ng Days	·	9.1		
Working	take to pieces	_		_	50.20 m/Dr	:i11	ing Per	iod	16.7		
Wor	Moving of water	_	-	-	50.20 m/Ne	et D	rilling	Davs	├─-	08 m/d	9.17
	Road · others	. 7°00'	-	7.9				, 20,0	20.		- y
	G ·Total	89°00'	-	100	Total wor	kers	/ 5	0.20 m	3.	39 Man	/m
ed	Pipe Size & Meterage	Inserted Length Drilling	Reco	overy of ing Pipe	Total Drilling	Work	ers/ 5	0.20 m	1.	39 ^{Man}	/m
erted	:	Length				Dri	lling	of Size	2		
Ins	BW-CP 1.80 m	3.6	. %	100 %	Bit size		BW	56	-T		\neg
Pipe	. m		%	7.	Drilling		1.80	m 48	.40 m		
93 P	. m.		%	%	Core Leng	th	0.00	48	.40		\neg
Casing								·.			\neg
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			***************************************		······						
po			Period			Number of Days		ctual orking Days	Day	Off	Total Number o Workers
eriod	Preparation	14th SE	P.¹88∿17	th SEP.	88	4		4	-		108
п Р	Drilling	18th SE	2.'88∿19t	h SEP.	88	2		2			56
Working	Removing	T-110		····		_		_			
3	Total	14th SEF	.'88∿19t	h SEP.	88	6		6	-		164
	Dep	th of Dril	ling			Core Rec	ove	rv for e	ach 1	00 =	section
Length	Planned Length	50.00 m	Over- burden		; m	Depth of Hole		Secti			Total
ling L	Increase or Decrease in Length	0.30	Core Length	48.4	m)	0∿ 48.40	m m	97.	0 %	9	7.0 %
[7]	Length Drilled	m 50.30	Core Recovery	97.0	7.	:	m		7.		. 7
	Drilling	23°30' ^H	53.4	26.7	ઢ		m	· · · · · · · · · · · · · · · · · · ·	<u> </u>		% %
	Out Drilling	20°30¹	46/6	23.3			m				7.
1 1	Regain of Accident	-	-	-		Eff	ici	ency of		ling	
Time	Total	44°00'	100	50.0		50.30m/Wo	rki	ng Perio		R	38 m/day
	Construct	36°00'		40.9		50.30m/Wor	rki	ng Davs	-		35 m/day
🖫 -	take to pieces			-		50.30m/Dr			od		15 m/day
- }-	Moving of water		<u> </u>			50.30 ^m /Net			<u> </u>		
_	Road · others	. 8°00'		9.1		30.30		LITTING	Days	25.	15 m/day
	G · Total	88°00'		100	99	Total work	ers	/ 50	. 30 m	3.2	26 Man/m
erred	Pipe Size & Meterage	Inserted Length Drilling Length	7 Rec	overy o	f e	Total Drilling Wo				1.1	1 Man/m
ഗ്	PUL OR 1 42 -		07)ri	lling of	·		
<u>"</u> -	BW-CP 1.60 m	3.2	73	100	7	Bit size		BW	56-	T	
- 15.	m ·	· · · · · · · · · · · · · · · · · · ·	%	·	7	Drilling		1.60 m	48.	70 ^m	
	m		Z		%	Core Length	1	1:20	47.	T	
Casing											

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	**************************************		Combando and T. Contra								
				1	Number	Act	tual		ļ	Total	.
		ing the d	Period 🐰		of	Wo:	rking	Day O	ff N	lumber	of
701	11,1		1 21		Days	D	ays			Worke	rs
Period	Preparation	26th AUG	.'88∿28tl	a AUG. '88	3		3			135	
	Drilling Drilling	28th AUG	.¹88∿30tl	AUG. '88	3		2.5	·		- 80	
Working	Removing				_		-	-			
3	Total	26th AUG	.'88∿30tl	AUG. 188	6		5.5	:		215	
	Dept	h of Dril	ling		Core Rec	over	y for e	ach 10	. m 00	sectio	n
	Dland	m	Over-	In In	Depth						
유	Planned	50.00		1	of	1	Secti	on		Total	· 1
20	Length	30.00	burden	1	Hole		-				
Length	Tabanasa	: nt	Core	m	0 ~ 50.2	0 m	90.2	. %	. (90.2	97
	Increase or Decrease in	0.20	Length	45.30	30.2			/6			
illing	Length	0.130	Lengen			m		7.			78
[3]	Length	m	Core	7,		m		%			%
Dr	Drilled	50.20	Recovery	90.2							
				<u> </u>	<u> </u>	m		%			73
	Drilling	34°00' H	75.6	42.5 %		m		<u>%</u>			7.
i	Out Drilling	11°00'	24.4	13.7		m		%		<u> </u>	%
	Regain of Accident	-	_	-	Ef	fici	ency of	Dril	ling		
Time	Total	45°00'	100	56.2	50.20 m/W	orki	ng Peri	od	8.	37 m/c	lay
	Construct	27°00'	-	33.8	50.20 m/W	orki	ng Days		9.	13 m/c	lay
Norking	take to pieces				50.20 m/D	rill	ing Per	iod	16.	73 m/c	lay
Wor	Moving of water	-		-	50.20 m/N	et D	rilling	Days	 	08 m/c	
	Road · others	8°00'	_	10.0		:					
	G • Total	80°00'	-	100	Total wor	kers	50).20 m	4.	28 Mai	n/m
	Pipe Size &	Inserte Length		overy of	Total Drilling	Work	ers/ 50	.20 m	1.	59 Mai	n/m
bg g	Meterage	Drillin		ing Pipe					L	****	
Inserted	. 7.4	Length				Dri	lling o	of Size	e .	, marrie	
Ins	BW-CP 2.50 m	4.9	7.	100 [%]	Bit size		BW	56	→T		-
Fipe	m	<u> </u>	%	7.	Drilling		2.50	m 4	7.70 ^m		
89	m,		7	7.	Core Leng	gth	1.70	4.5	5.30		···
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Ca					†	-1					
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				The Control of the Party of the		Table 2 Market shirted shows a support to		
7			Period	in the second se	Number of Days	Actual Working Days	Day	Off Number o Workers
1.5	Preparation	30th AUG	.'88∿1st	SEP. '88	3	3	_	110
9 0	True 1112	2nd SEP.	88~4th	SEP. '88	3	2.5	_,	85
Working	Removing		·	··		_	-	
13	Total	30th AUG	'88∿4th	SEP.'88	6	5.5		195
beau	Dep	th of Dril	ling		Core Rec	overy for	each 1	00 m section
Length	Planned Length	m 50.00	Over- burden	m	Depth of Hole	Sect	ion	Total
Drilling L	Increase or Decrease in Length	0.20	Core Length	35.00 m	0 ∿ 5022	0 m 81.	0 % %	81.0 %
Dril	Length Drilled	50.20 m	Core Recover	y 81.0 %		m	7. 7.	7.7
	Drilling	31°30' H	57.3	7 35.4 %		m		~ %
	Out Drilling	23°30'	42.7	26.4		m	78	78
	Regain of Accident	_	-	-	Ef	ficiency o	f Dril	ling
Time	Total	55°00'	100	61.8	50.20 m/Wo	rking Per	iod	8.37 m/day
1	Construct	27°00'		30.3	50.20 m/Wo	orking Days	3	9.13 m/day
Working	take to pieces	-	-		50.20 m/Dr	illing Per	riod	16.73 m/day
Woy	Moving of water	-		_	50.20 m/Ne	t Drilling	Dave	20.08 m/day
	Road · others	7°00'	_	7.9	30.20	- During	bays	20.08 m/day
	G · Total	89°00'		100	Total worl	kers/ 50).20 m	3.88 Man/m
pa	Pipe Size & Meterage	Inserted Length Drilling	7 Rec	overy of ing Pipe	Total Drilling V	Vorkers/5().20 m	Man/m 1.69
Inserted		Length				Drilling o	of Size	
	BW-CP 7.00 m	1.4	7	100 %	Bit size	BW	56-	т
Pipe	m		73	%	Drilling	7.00	m 43	. 20 ^m
S P	m		78	. 7	Core Lengt	h 0.00		.00
Casing								
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-										
, g			Period		Number of Days	Wo	tual rking Days	Day (Off	Total Number of Workers
Period	Preparation	4th SEP.	¹88∿6th S	EP. 188	3		3	-		90
	Drilling	7th SEP.	'88∿9th S	EP.'88	3		2.5			80
Working	Removing				-		_			-
35	Total	4th SEP.	'88∿9th S	EP.'88	. 6		5.5	_		170
	Dept	h of Dril	ling		Core Rec	over	y for	each 10	00 m	section
Length	Planned Length	m 50.00	Over- burden	m	Depth of Hole		Sect	ion		Total
	Increase or Decrease in Length	0.10 m	Core Length	46.4 0	0 ~ 50.	l Om m	97.5	% %	9	7.5 % %
Drilling	Length Drilled	m 50.10	Core Recovery	97.5		m		7.		7.
\vdash	Drilling	32°00' ^H	58.2 %	36.0 %		m m		% %		% %
	Out Drilling	23°00'	41.8	25.8		101		7,		2
	Regain of Accident	-	-	-	Ef	fici	ency o		ling	,,
Time	Total	55°001	100	61.8	50.10 ^{m/Wo}	rki	ng Peri	od	8.	35 m/day
1 I	Construct	27°00'	-	30.3	50.10m/Wo				9.	
Working	take to pieces	- <u>-</u>		_	50.10m/Di	i11	ing Per	iod	16.	70 m/day
Wor	Moving of water		-		50.10m/Ne			D		
	Road · others	7°00'		7.9	20.10/1/6	EL D.	TITITIE	Days	20.	04 m/day
	G •Total	89°00'	_	100	Total wor	kers	/ 50).10 m	3.	39 Man/m
ed	Pipe Size & Meterage	Inserted Length Drilling	7 Reco	overy of ing Pipe	Total Drilling	Work	ers/50	.10 m	1.4	60 Man/m
serted		Length				Dri	lling o	of Size	2	
ľ	BW-CP 3.00 m	6.0	Z	100 %	Bit size		BW	56-	-T	
Pipe	m		Z	7.	Drilling		3.0	o ⁿ 47	.10 ⁿ	1
9 P	m		7.	7.	Core Leng	th	0.5	0 45	.90	
Casing										
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g			Period		Number of Days	Actual Working Days	Day (Off N	Total umber of Vorkers
Period	Preparation	24th JUN.	¹88∿29th	JUN. 188	6	6	_		245
66	Drilling Drilling	30th JUN.	¹88∿3rd J	UL.'88	4	4	-		100
Workin	Removing						_		
) ·S	Total	24th JUN.	'88∿3rd J	UL.'88	10	10	_		345
	Dept	h of Dril	ling		Core Rec	overy for	each 1	00 m s	ection
Length	Planned Length	50.00 m	Over- burden	m	of Hole	Sect	ion	Т	otal
60	Increase or Decrease in Length	0.20 m	Core Length	46.10	0∿50.20	т 92. ш	2 _%	9	2.2 _%
Drillin	Drilled Length	50.20 m	Core Recovery	92.2		m m	% %		7. 7.
-	Drilling	37°00' H	67.3 %	32.4		m	7. 7.		
	Out Drilling	18°00'	32.7	15.8		m :	7.		78
	Regain of Accident	~			Ef	ficiency o	f Dril	ling	
Time	Total	55°00'	100	48.2	50.20m/Wo	rking Per	iod	5.02	m/day
ng T	Construct	38°00'	-	33.4	50.20 m/Wc	orking Days		5.02	
kin	take to pieces	-		-	1	illing Per		ļ	m/day
Worki	Moving of water		-	-	50.20 m /Ne	t Drilling	Dave	 	m/day
	Road • others	21°00'		18.4			5 2033	 	
	G ∙Total	114°00'	-	100	Total worl	kers/ 50	.20 m	6.87	Man/m
erted	Pipe Size & Meterage	Inserted Length Drilling Length	7 Reco	very of ng Pipe	Total Drilling V			1.99	Man/m
iont				····		Drilling	. ,		2 .
H	BW-CP 1.70 m	3.4	7.	100 %	Bit size	BW	56-		
Pipe	· m	·	7.	%	Drilling	1.70		.50 ^m	
	m	**************************************	7	7.	Core Lengt	h 1.50	44.	. 60	
Casing				\	1 - 10 1 1				

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7	-		-		Total Carlotte and the					•	
od			Period		Number of Days	Actua Worki Days	ng l	Day ()ff	Tota Number Worke	r of
Peri	Preparation	30th JUN	.¹88∿3rd	JUL.'88	4	4		_		191	
60	13 m i 1 1 i	3rd JUL.	'88∿6th J	ur.'88	4	2.	5	11		-57	
Workin	Removing				-	_	- -			-	~~~
×	Total	30th JUN	'88∿3rd	JUL.'88	8	6.5		1		248	
	Dept	h of Dril	ling		Core Rec	overy f	or ea	ch 10	l 00 m	section	on
Length	Planned Length	_50.00 m	Over- burden	m			ection			Total	
ing	Increase or Decrease in Length	0.10 ^m	Core Length	47.70	0∿50.10	m m	99.8	% %		99.8	% %
Dril	Length Drilled	50.10 ^m	Core Recovery	, 99.8		m		7 7			7 7 7
	Drilling	42°00' H	76.4	42 %		m		~ %	····		7.
	Out Drilling	13°00'	23.6	1.3		m		78			73
	Regain of Accident	-		-	Ef:	ficienc	y of I	Drill	ing		
Time	Total	55°00'	100	55	50.10 m/Wc	rking	Period		6	.26 m/d	lav
1	Construct	36°00'	-	36	50.10 m/Wc	rking I	Days			.70 m/c	
Working	take to pieces	-	-	-	50.10 m/Dr	illing	Perio	d		.52 m/c	
Ν̈́ο	Moving of water	-		-	50.10 m/Ne	t Dril	ling D	avs		.04 m/d	
	Road · others	9°00'	· <u></u>	9			·				
	G ∙Total	100°00'	-	100	Total worl	kers/	50.20) m	. 4	.95 Man	1/m
pa	Pipe Size & Meterage	Inserted Length Drilling	g Rec	overy of ing Pipe	Total Drilling V	Vorkers	/50,20) m	1	.13 Man	ı/m
Inserted		Length		0		Drilli	ng of	Size			
	BW-CP 2.30 m	4.6	7.	100 %	Bit size		BW	56-	T		\dashv
Pipe	m		78	7.	Drilling	2	.30 m	47.	80 ^T		\dashv
82	m		7.	7.	Core Lengt		00	47.			_
Casing				:				L.,,, <u>i</u>		<u> </u>	
ပ				ì	•						
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po			Peri	.od		Number of Days	We	ctual orking Days	Day	off.	Tota Numbe Work	r of
Peric	Preparation	4th JUL.	1881	6th J	UL.!88	3		2	1	1.	90	
,	Drilling	7th JUL.	1881	9th J	UL.'88	3		2.5		_	76	
Working	Removing	-										
155	Total	4th JUL.	¹88 ¹	9th J	UL.'88	6		4.5	1		166	
	Dept	h of Dril	ling	5		Core Rec	ove:	ry for	each	100 n	secti	.on
Length	Planned Length	50.00 ^m	Ove bur	r- den	m	Depth of Hole		Sect	ion		Total	:
	Increase or Decrease in Length	0.10 m	Cor Len		48.00	0∿50.10	E E	9		7 7	97.0	7. %
Drilling	Length Drilled	50.10 m	Cor	e overy	97.0		m m			7. 7.		7 7
	Drilling	41°30 H	69	. 2 %	50.6		m		~- ~	2		7.
	Out Drilling	18°30'	30	.8	22.6		щ			Z .		7.
	Regain of Accident	_		-	-	Ef	fic	iency o	f Dri	lling		
Time	Total	60°00'	10	0	73.2	50.1 m/Wo	orki	ng Peri	od	8	.35 m/	day
	Construct				-	50.1 m/Wo	rki	ng Days		11	.13 m/	day
Working	take to pieces	20°00'		-	24.4	50.1 m/Dr	:i11	ing Per	iod		.70 m/	
Wor	Moving of water	_		-		50.1 m/Ne			·			
	Road · others	2°00'		-	2.4)0.1 m/me	- D	TTTTIE	рау	\$ 20	.04 m/	uay
	G · Total	82°00'		-	100	Total wor	kers	s/ 50	0.10	m 3	.31 Ma	n/m
erted	Pipe Size & Meterage	Inserted Length Drilling Length	97		very of ng Pipe	Total Drilling V		cers/ 50	·		.52 ^{Ma}	n/m
Inse	BW-CP 0.60 m	1.2	78	1	00 %	Bit size		BW		6-Т		
Pipe	m		73		7	Drilling		0:60			m	
	m		7,		7.	Core Lengi	:h	0.00		8.00	1.	
Casing							,					

Service and											
pq			Peri	od		Number of Days	Wo	ctual orking Days	Day	Off	Total Number of Workers
Period	Preparation	7th JUL.	188√9	th J	JL. 188	-3		3	_		135
	Drilling	9th JUL.	'88∿1	2th	յու.'88	. 4		2.5	1		. 99
Working	Removing					-			-		-7
135	Total	7th JUL.	'88∿1	2th J	JUL. '88	7		5.5	1		234
	Dept	h of Dril	ling			Core Rec	ove	ry for	each 1	00 п	section
Length	Planned Length	50.00 m	Over burd		m.	Depth of Hole		Sect	ion		Total
	Increase or Decrease in Length	0.10 m	Core		491.7	0∿50.10	n u	99).2 % %	+	99.2 %
Drilling	Length Drilled	50.10 m	Core	very	99.2		m		7. 7.		7. 7. 7. 7.
 	Drilling	40°00¹H	: 72	.7 %	44.9 %		m		7. 7. 7.	\vdash	~ %
	Out Drilling	15°00'	27	.3	16.9		п	··	. %		7.
	Regain of Accident	-	-	-	_	Ef	fici	iency o	f Dril	ling	
Time	Total	55°00'	10	0	61.8	50.10m/Wo	rki	ng Peri	od	7	.16 m/day
	Construct	.18°00.'	-	-	20.2	50.10m/Wo	rki	ng Days	3	. 9	.11 m/day
Working	take to pieces					50.10m/Dr	i11	ing Per	iod	12	.53 m/day
Ŋ.	Moving of water	_			-	50.10m/Ne	t D	rilling	Days	20	.04 m/day
	Road · others	16°00' 89°00'		·	18.0	Total work	core	1. 50	10 m	—	CZ Main las
	G ·Total	89-001			100	TOTAL WOLL	.e.s	-7 30	.10 m	4	.67 Man/m
serted	Pipe Size & Meterage	Inserted Length Drilling Length	g		very of ng Pipe	Total Drilling (1	.98 ^{Man/m}
		<u> </u>					Dri	lling o		· · · · · · · · · · · · · · · · · · ·	· .
In	BW-CP 1.50 m	3.0	%		100 %	Bit size		BW)-T	
Pipe	m		73		7.	Drilling	·	1.50			
8u	m		%		. 7	Core Leng	t h	1.10	48	3.60	
Casing										•	
Ц											

							•				
Market Committee of the		Period			Number of Days	We	orking	Day (Off	Number	οf
Preparation	10th JUL	.'88∿12tl	1 JUL. 188	8	3		3			119	
Drilling	13th JUL	.'88∿14t1	JUL.'88	3	2		2			58	
Removing					-					-	
Total	10th JUL	.'88∿14th	JUL.'88	3	5		5	 .		177	
Dept	h of Dril	ling	NJ.		Core Rec	ove	ry for e	ach 1	l	section	
Planned Length	50.00 m	Over- burden		П	Depth of Hole		:			Total	-
Increase or Decrease in Length	0.10 m	Core Length	49.50	m	0∿50.10	m m	99.4	% %		99.4	7 7
Length Drilled	50.10 m	Core Recovery	55	%		m		%			78
Drilling	31°30' ^H	71.6 %	41.4	7		m m				 	7 7
Out Drilling	12°30†	28.4				m	<u></u>				/°
Regain of Accident	-	-		-	Efi		ency of		ing		<i>√</i> °
Total	44°00'	100	57.9	_	50.10 m/Wo	rki	ng Perio	od	10	02 - 14 -	\dashv
Construct	27°00'		35.5	— -							
take to pieces	-	_		_ I				od			
Moving of water	-		-						<u> </u>	<u> </u>	
Road · others	5°00'		6.6	-	JU.IU m/Ne	C D:	rilling	Days	25.	05 m/da	y
G · Total	76°00'	-	100		Total work	ers	/ 50.	10 m	3.	53 Man/	m
Pipe Size & Meterage	Length Drilling	Reco								16 ^{Man/}	m
		1 11		L		Dri	lling of	Size			
BW-CP 1.80 ^m	3.6	78	100 %	6	Bit size		BW	56-	T		
n			7.	٤	Drilling		1.80	48	. 30 ^m		
m		. %		ζ. J.	Core Lengt	h.	1.50				1
											1
					er i e e e		. <u>.</u>	,			
	Removing Total Dept Planned Length Increase or Decrease in Length Length Drilling Out Drilling Regain of Accident Total Construct take to pieces Moving of water Road · others G · Total Pipe Size & Meterage BW-CP 1.80m m	Removing Total 10th JUL Depth of Dril Planned Length 50.00 Increase or Decrease in Length Length 50.10 Drilling 31°30'H Out Drilling 12°30' Regain of Accident 70tal 44°00' Construct 27°00' take to pieces 700' Godon Total 76°00' Pipe Size & Meterage 100 Meterage 100 Meterage 100 Meter 100 Meterage 100 Met	Preparation 10th JUL.'88~12th Drilling 13th JUL.'88~14th Removing Total 10th JUL.'88~14th Depth of Drilling 10th JUL.'88~14th Depth of Drilling 10th JUL.'88~14th Depth of Drilling 50.00 Total 50.00 Total Core Length Length 50.10 Core Recovery Drilling 31°30'H 71.6 Total 12°30' 28.4 Regain of Accident 70tal 44°00' 100 Construct 27°00' — take to pieces — — Moving of water — Road · others 5°00' — Road · others 5°00' — Total 11ing 1	Preparation 10th JUL.'88√12th JUL.'88 Drilling 13th JUL.'88√14th JUL.'88 Removing Total 10th JUL.'88√14th JUL.'88 Depth of Drilling Planned Length 50.00 Over—burden Length 50.10 Core Length 49.50 Length 50.10 Core Recovery 99.4 Drilling 31°30'H 71.6 41.4 Out Drilling 12°30' 28.4 16.5 Regain of Accident — — — Total 44°00' 100 57.9 Construct 27°00' — 35.5 take to pieces — — — Moving of water — — — Road · others 5°00' — 6.6 G · Total 76°00' — 100 Pipe Size & Meterage Meterage Length Drilling Length % Recovery of Casing Pipe BW-CP 1.80m 3.6 % 100 %	Preparation 10th JUL.'88v12th JUL.'88 Drilling 13th JUL.'88v14th JUL.'88 Removing Total 10th JUL.'88v14th JUL.'88 Planned Length 50.00 Over—burden m Length 50.00 Over—burden m Length 50.10 Core Length 49.50 Length 50.10 Core Recovery 99.4 x Drilling 31°30'H 71.6 41.4 x Out Drilling 12°30' 28.4 16.5 x Regain of Accident - - - - Accident - - - - - Total 44°00' 100 57.9 - - - Construct 27°00' - 35.5 - - - - Road · others 5°00' - - 6.6 - - - Pipe Size & Meterage Inserted Length Drilling Length X Recovery of Casing Pipe - M <t< td=""><td> Period Of Days </td><td> Period</td><td> Period</td><td> Period</td><td> Period</td><td> Period</td></t<>	Period Of Days	Period	Period	Period	Period	Period

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5			Period	FINANCIA (A STATE) A STATE (A S	Number of Days	Wo:	tual rking ays	Day O	ff	Total lumber of Workers
Period	Preparation	13th JUL	'88∿14t	h JUL. 88	2		2	_		115
	Drilling	15th JUL	. '88∿17t	ի յսւ.'88	3		3	_		82
Working	Removing	· · · · · · · · · · · · · · · · · · ·		, , , , , , , , , , , , , , , , , , ,	-		_			-
33	Total	13th JUL	. ¹88∿14t	h JUL.'88	5		5	***		197
	Dept	h of Dril	ling		Core Rec	over	y for e	ach 10	00 m :	section
ength	Planned Length	50.10 m	Over- burden	m. m	Depth of Hole	•	Section	on		lotal
Drilling Length	Increase or Decrease in Length	0.10 m	Core Length	28.40	0∿50.10	m	86.	6 _%		86.6 _%
Dril	Length Drilled	50.10 ^m	Core Recover	у 86.6		m m		% %	:	7 7
	Drilling	43°30'H	66.0	[%] 46.3 [%]		m		7.		78
	Out Drilling	22°30'	34.0	23.9		m		7		8
	Regain of Accident	-	-	-	Ef	fici	ency of	Dril	ling	
Time	Total	66°00'	100	70.2	50.10m/W	orkiı	ng Perio	od .	10.0	2 m/day
	Construct	20°00'	-	21.3	50.10 ^m /W	orki	ng Days		10.0	2 m/day
Working	take to pieces	-			50.10m/D	rill	ing Peri	lod	16.7	0 m/day
Wo	Moving of water	-	-	-	50.10 _{m/N}	et Di	rilling	Days	16.7	0 m/day
	Road · others	8°00'	· <u></u>	8.5						
	G · Total	94°001		100	Total wor	kers	/ 50	.10 m	3.9	3 Man/m
p	Pipe Size & Meterage	Inserted Length Drilling	y Re	ecovery of asing Pipe	Total Drilling	Work	ers/ 50).10 m	1.6	4 Man/m
Inserted		Length				Dri	lling o	f Size	e	
Ins	BW-CP 17.30 m	34.5	78	100 %	Bit size		BW	56	-Т	
Pipe			8	%	Drilling		17.30	m 32	.80 m	
	: , : m	1 .	78	. %	Core Leng	t h	0.00	28	.40	
Casing							· ·	- • • • • • • • • • • • • • • • • • • •		,

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PX	ora, Na mariana akan sa marian		Period		Number of Days	Actual Working Days	Day (Off	Total Number Worke	of
Period	Preparation	15th JUI	'88∿17tl	JUL. '88	3	3	-		103	
	Drilling	18th JUL	¹88∿20tl	JUL.'88	3	2.5	-		114	
Working	Removing		***************************************				-			
3.5	Total	15th JUL	.¹88∿20th	JUL.'88	6	5.5	-		217	
	Dept	h of Dril	ling	<u> </u>	Core Rec	overy for	each 1	00 na	section	n ·
Length	Planned Length	50.00 m	Over- burden	m	·	Sect			Total	
1 1	Increase or Decrease in Length	0.20	Core Length	42.70	0∿50.20	m 86.	1 _%		86.1	7 7
Drilling	Length Drilled	50.20 m	Core Recovery	86.1		m m	% %			7 7
	Drilling	30°00' H	65.2 %	37.5		ш	7.			78
	Out Drilling	16°00'	34.8	20.0		ш	7,			2
	Regain of Accident	-	_	_	Ef	ficiency o	f Dril	ling		
Time	Total	46°00'	100	57.5	50.20 m/Wo	rking Per	iod	8.	37 m/d	av
	Construct	28°00'		35.0	50.20 m/Wo	rking Day	5	 	13 m/d	- -
Working	take to pieces		_	-	50.20 m/Dr	illing Pe	riod	<u> </u>	73 m/d	——
Wo	Moving of water	-	<u></u>	_	50.20 m/Ne	t Drilline	Dave	20.	08 m/d	27
	Road others	6°00'		7.5			5 2470			ay
	G ·Total	80°00'	_	100	Total work	cers/ 5	0.20 m	4.	32 Man	/m
erted	Pipe Size & Meterage	Inserted Length Drilling Length	7 Reco	very of ng Pipe	Total Drilling W				27 ^{Man}	/m
où L		······································		· .		Drilling	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	_
- I	BW-CP 1.50 m	2.99	7	100 %	Bit size	BW	56-			
Pipe	т.		7.	7.	Drilling	1.50	^m 48	.70 ^{II}	1	\perp
ng l	m _.		7.	. %	Core Lengt	h 0.90	41	. 80		
Casing										

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po		·	Period			Number of Days	W	ctual orking Days	Day	Off	Total Number of Workers
Peri	Preparation	18th JUL	.¹88∿20	th	JUL.'88	3		3	_		140
مما	Drilling	20th JUL	.'88∿22	nd	JUL.'88	2		2			60
Workin	Removing		·			_	-	-			-
135	Total	18th JUL	. '88∿22ı	nd	JUL.'88	6		5			200
	Dept	h of Dril	ling			Core Rec	ove	ry for	each 1	— . 00 m	*************
Length	Planned Length	50.00 m	Over- burden		m	Depth of Hole		Sect			Total
	Increase or Decrease in Length	0.30	Core Length		m 48.20	0∿50.30	m m	99).8 z		99.8 z
Drilling	Length Drilled	50.30 m	Core Recover	гу	99.8 %		m m		7. 7. 7.		7. 7.
	Drilling	30°00'H	69.3	%	39.1		m		. %		
	Out Drilling	13°30'	30.7	\neg	17.3		m		7.	<u> </u>	7
	Regain of Accident			\top	-	Ef	fic	iency o		ling	/9
Time	Total	44°00'	100		56.4	50.30 m/Wo	rki	ng Peri	od	8	38 m/day
	Construct	27°00'	-		34.6	50.30 m/Wa	rki	ng Days		 	.06 m/day
Working	take to pieces	-			_	50.30 m/Di	i11	ing Per	iod		76 m/day
Wo	Moving of water	_	•		-	50.30 m/Ne	- t D	rilling	Dave		15 m/day
	Road · others	7°00'			9.0	30130 M/10			, Days	2.3.	.13 ш/цау
	G ·Total	78°00'	. -		100	Total wor	ker	s / 5	0.30 m	3.	98 Man/m
pa:	Pipe Size & Meterage	Inserted Length Drilling	7 Re		very of ng Pipe	Total Drilling	Wor	kers/ 5	0.30 ^m	1.	Man/m 19
nserted		Length					Dr	illing	of Size	e	
H	BW-CP 2.60 m	5.2	78	1	00 %	Bit size		BW	56	- T	
Pipe	m		%		%	Drilling		2.60	^{ttt} 47	.70 ^{TI}	
1 PG	m		%			Core Leng	th	0.60	47	.60	
Casing											
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)d			Period		Number of Days	Wor	tual rking ays	Day (Off	Total Number of Workers
Period	Preparation	25th JUL	.¹88∿26th	JUL.'88	2	2 2		_		. 75
مه	Drilling	27th JUL	.¹88∿28th	JUL. 88	2 2			-		59
Workin	Removing			· · · · · · · · · · · · · · · · · · ·	_	 -				_
33	Total	25th JUL	.′88∿28th	JUL.'88	4	ļ	4			134
E)**Fran	Dept	th of Dril	lling		Core Rec	overy	y for e	each 1	00 m	
Length	Planned Length	50.30 ^m	Over- burden	m	 		Secti			Total
	Increase or Decrease in Length	0.30	Core Length	45.30 ^m	0,∿50,30	m m	93.	.0 g		93.0 _%
Drilling	Length Drilled	50.30 m	Core Recovery	93.0		m	· · ·	7.		% %
	Drilling	31°30'H	71.6 %	46.3 %		m		رة 2		
	Out Drilling Regain of	12°30'	28.4	18.4		m		7.		78
	Accident	_	-		Efi	ficie	ncy of	Dril]	ing	t en la
Time	Total	44°00'	100	64.7	50.30 m/Wo	rkin	g Perio	od	12.	58 m/day
	Construct	18°00'	-	26.5	50.30 m/Wo	rking	g Days			58 m/day
Working	take to pieces	<u></u>	-		50.30 m/Dr	illin	ng Per	iod	25.	15 m/day
8	Moving of water			-	50.30 m/Ne	t Dri	illing	Days	25.	15 m/day
	Road · others	6°00'	- .	8.8		,				
	G · Total	68°00'	-	100	Total work	ers/	50	.30 m	2.	66 Man/m
serted	Pipe Size & Meterage	Inserted Length Drilling Length	Z Reco	overy of ng Pipe	Total Drilling W		· · · · · · · · · · · · · · · · · · ·	l	· · · · ·	17 Man/m
	PM CB 1 60-					Uri I	ling of	_		
e In	BW-CP 1.60 m	3.2	7	100 %	Bit size		BW	56-		
Pipe	m		7	7.	Drilling		1.60		70 ^m	
ing	m		7.		Core Lengt	h		45.	30	
Casing					- 1					

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þg		3	Period		Number of Days	Wo	ctual orking Days	Day (Off	Total Number of Workers
eriod	Preparation	17th JUL	.'88∿24tl	JUL.'88	8		. 8			324
ng P	Drilling	25th JUL	.'88∿26tl	JUL. 88	2	2		_		60
Workin	Removing			·						<u> </u>
M	Total	17th JUL	.¹88∿26tì	JUL. 188	10	10				384
	Dept	Core Recovery for each 100 m sectio								
Length	Planned Length	50.00 ^m	Over- burden	m	Depth of Hole		Secti		T	Total
ing	Increase or Decrease in Length	0.20 m	Core Length	44.90 ^m	0∿50.20 m.		98.	7 % %	9	8.7 _%
Drill	Length Drilled	50.20 m	Core Recovery	98.7		m m		7.		7.
	Drilling	32°30'H	73.9 %	20.6 %		m		% %		% %
	Out Drilling	11°30'	26.1	7.3		III.				7
	Regain of Accident		-	<u> </u>	Efficiency of Drilling					
Time	Total	44°00'	100	27.9	50.20 m/Working Per					02 m/day
	Construct	64°00'		40.5	50.20 m/Wo	rki	ng Days		5.0	02 m/day
Working	take to pieces	-		_	50.20 m/Dr				25.	
ξ So	Moving of water	-	-	_	50.20 m/Ne	t D	rilling	Dave		10 m/day
	Road • others	50°00'	_	31.6				Days		
	G •Total	158°00'	· -	100	Total work	kers	5/ 50	0.20 m	7.0	65 Man/m
Inserted	Pipe Size & Meterage	Inserted Length Drilling Length	Rec	overy of ing Pipe	Total Drilling V		ers/ 50		L	Man/m 20
Inse	BW-CP 5.20 m	10.4	78	100 %	Bit size		BW	56-		
Pipe	m		78	7.	Drilling		5,20	<u> </u>	00 m	
9 P	m			Core Lengt		0.50		.40		
Casing					·	L			<u> </u>	
S										

JMT-27

יט			Period		Number of Days	Wo	tual rking ays	Day	Off	Total Number of Workers
eriod	Preparation	27th JUL	.'88∿28th	JUL.'88	2		2	-		90
24	Drilling	29th JՄL	.'88∿30th	JUL.¹88	2		2	Area		59
Working	Removing	29th JUL	.¹88∿30th	2		2	-		100	
3	Total	27th JUL	2		2			249		
	Dept	h of Dril	ling		Core Re	cover	y for	each 1	00 m	section
Length	Planned Length	50.00 m	Over- burden	I	Depth of Hole		Sect	ion		Total
illing Le	Increase or Decrease in Length	0.20 m	Core Length	47.90	0 ∿ 50.	20 m m	98	.4 % %		98.4 %
Drill	Length Drilled	50.20 m	Core Recovery	98.4	7	m		7,		7, 7
	Drilling	32°00¹ H	72.7 %	30.8		m m		% %		% %
	Out Drilling	12°00'	27.3	11.5		m		7.		2
-	Regain of Accident			-	Efficiency of Drilling					
Time	Total	44°00'	100	42.3	50.20 m/V	Vorki	ng Peri	iod	8.	37 m/day
00	Construct	54°00'	`. -	11.5	50.20 m/V					37 m/day
Workin	take to pieces		1 5		50.20 m/I	rill	ing Per	riod	25.	.10 m/day
Wor	Moving of water	_	<u></u>		50.20 m/l	let D	rilling	g Days	25.	.10 m/day
	Road · others	6°00'	_	5.8						
	G · Total	104°00'	-	100	Total wo	rkers	; / · 50	0.20 m	4.	96 Man/m
۵	Pipe Size & Meterage	Inserted Length Drilling	" Rec	overy of ing Pipe	Total Drilling	Work	ers/50	0.20 m	1.	18 Man/m
erted		Length				Dri	lling o	of Siz	e .	
Ins	BW-CP 1.60 m	3.2	7.	100 %	Bit size		BW	56	-T	
Pipe	to	u %		7	Drilling		1.60	m 48	.60 ^T	n .
8 P	m 7 7		Core Length 0.10 47.80							
Casing										
ပြိ							-			

Appendix 8

List of the used equipments for drilling

List of the Used Equipments for Drilling

Item	Mode l	Quantity	Capacity, Type, and Specification
Drilling Machine	YMB-05DA	2	Capacity 56mm 55mm
			Inner Diameter of Spindle 42mm
Engine for Drill	DY-41B	2	Diesel Engine 7.5PS/1800rpm
Pump	MG-5A	1	Piston 668mm Capacity 35 ~ 422/min.
Engine for Drill	NFA-70	1	Diesel Engine
Generator	XT 38L	1	3.4KVA, 220V, 50 c/s
Engine for Generator	EY27-2D	1.	Gasoline Engine 7.0PS/1800rpm
Pump	TAA600K	2	Capacity 42.8 %/min.
			Pressure 40 kg/cm ²
Engine for Pump	L60SSNT	2	Diesel Engine 6.0PS/1800rpm
Pump	L-25	1	Capacity 70 l/min Pressure 40 kg/cm ²
Engine for Pump	NF-10	1	Diesel Engine
Derrik			
Rod Holder	RH-45	1	Hand Typ
Drill Rods	40.5	30	3.00 M/pc
	40.5	35	1.50 M/pc
Casing Pipes	BW .	7	1.5 M/pc
	11	5	1.0 M/pc
	\$1	5 .	0.5 M/pc
	Ħ	5	0.3 M/pc
Double core Barrel	56-T	3	3.00 M/pc
	ft.	3	1.50 M/pc
Inner Tube	56-T	2	3.00 M/pc
	n	2	1.50 M/pc
			·
	·		
·			#1, T

Appendix 9 Articles of consumption and drilling parts

Articles of consumption and Drilling Parts

Description	Specification	n		Quan	tity	
bescription .	specification	Unit	JMS Songue	JMT Thundulu	JMC Chilwa	Total
Light Oil	40#	2	48	20	135	203
Mobil Oil	30#	2	52	18	170	240
Hydraulic Oil	90#	l	23	10	138	171
Solblu	EM	Ł			100	100
TK-60		kg	55.8	17	205	277.8
Cement	·	kg	480	280	1040	1800
Casing Metal Shoe		рс	4	1	13	18
Double Core Barrel Assy	56mmx3.00m	set	1	. -	2	3
Double Core Barrel	56mm×1.50m	set	1	-	2	3
Inner Tube	56mm×3.00m	set		-	2	2
Inner Tube	56mmx1.50m	set	-	. 1	1	2
Extension Tube	ļ	рс	6	2	12	20
Core Lifter		рс	7	3	15	25
Core Lifter Case		рс	4	2	. 8	14
Drill Rod	40.5mmx3.00m	р¢	6	2	8	16
Drill Rod	40.5mmx1.50m	рс	4	1	12	17
Drill Rod Coupling	40.5mm	рс	2	1	6	8
Casing Pipe	BWx1.50m	рс	-	-	1	1
Casing Pipe	BWx1.00m	рe	-		1	1
Casing Pipe	BWx0.50m	рc	_ [-	1	1
Casing Pipe	BWx0.30m	рc	-	-	1	1
Core Box		рс	70	27	285	382
Wire Rope	9mmx30m	rol1	2	-	2	4
Manila Rope	12mmx100m		2	-	2	4
Vinyl Rope	10mmx200m	рс	2	-	2	4
Piston Rod	MG-5A	рс	-	1	1	2
Piston Rubber	68mmø	рс	1	_	2	3
V-Packing	MG-5A	pe	10	-	10	20
Steel ball	MG-5A 1-1/2	рс	2	-	4	6

Description	Specification	Unit		Quant		
peacrifulou	opecification	onit	JMS Songue	JMT Thundulu	JMC Chilwa	Total
Spark Plug	EY27-2D	рс	2	1.	· 7	10
Air Element	EY27-2D	рс	1	-	1	2
Brush	EY27-20	рc	3	1	8	12
Steel Ball	TAA-600K	pc.	1	·	3	4
V-Packing	DY-41B	рc	5	-	6	11
Water Swivel Packing	40.5mm	рc	2	_	2	4
Water Swivel Oil Seal	40.5mm	рс	1	1	1	3
Water Swivel Felt Ring	СН	рс	1	·	1	2
V-Belt	TA-600K	рс	2	-	2	4
Pressure Gauge	YBH-05DA	рс	-	1	1	2
Chuck Piece	YBM-05DA	рс			2	2
Round Screw	YBM-05DA	рс			3	3
V-Belt	YBM-05DA	рс	-	2	3	5
V-Packing	SP-30B	рс	. 9	~~	9	18
Steel Ball	SP-30B	рс -			4	4
Nozzle Assy	DY-41B	рc	5 5 -	1	1	2
Delivery Valve	DY-41B	рс	.* –	1	 .	1
Element	DY-41B	рс	-	-	1 ·	1 .
Nozzle	L-60SSNT	рс	1	-	2 ·	3
V-Belt	L-60SSNT	рс		2	2	4
L.O. Element	L-60ssnT	рс	1		1	2
V Packing	TAA-600K	рc	6	2	4 :	12
Needle	TAA-600K	рс	-	-	1	1 .
Pipe Wrench	600πա	рc	2	• •	4	6
Pipe Wrench	450mm	рс	3	•	5	8
					:	

Appendix 10

Drilling meterage of diamond bits

Drilling Meterage of Diamond Bits

JMS Songwe JMT Tundulu

					Dril	ling Me	eterage	by Dr	cill Ho	oles Ur	nit Met	er		Total
Item	Type	Bit No.	ЈМS 12	ЈМS 13	JMS 14	JMS 15	ЈМS 16	JMS 17	JМS 18	JMS 19	JMT 25	JМТ 26	JМТ 27	AOLE:
	56Т	C741	23.20	15.10									38.30	
		C742		16.20										16.20
		C743	25.30		10.40	·					-			35.70
		G744			27.50									27.50
		C745				28.20								28.20
		C746			11.60	16.70								28.30
Bit		C747					29.60							29,60
٠		C748					14.90	i						14.90
		C749						26.00						26.00
		C750						6.80	4.40					11.20
		C751		2.40		3.70	3.80							9.90
		C752							21.90					21.90
		C753					·		22.40		,			22.40
		C754								27.60				27.60
		C755								8.80	,		·	8.80 25.40
		C756		14.10						11:30				31.60
		C757						·			31.60	4.00	:	21.10
		C758									17.10	41.00		41.00
		C759			·							71.00	26.40	
		C760											22.20	
		C761												
i		Total	48.50	47.80	49.50	48.60	48.30	32.80	48.70	47.70	48.70	45.00	48.60	514.20

Drilling Meterage of Diamond Bits

JMC Chilwa

Item	Tyne	Bit No.			Dril	ling N	leterag	e by I	rill F	lole, l	Jnit Me	eter		
			JMC 1	JMC 2	Јмс 3	JMC 4	JMC 5	ЈМС 6	Jмс 7	JMC 8	JмС 9	JMC 10	JМС 11	Total
	56T	C762	39.10								-			39.10
		C763	4.20										7.70	11.90
		C764		30.90										30.90
		. c765		17.60	3.60									21.20
		C766			-		35.00							35.00
		C767		,	20.50									20.50
Bit	·	C768			24.50					3.40				27.90
1 .		C769				26.20								26.20
	·	C770				20.50			7.20					27.70
		18910			1		7.00	9.80						16.80
		18911					5.50	24.30						29.80
		18912						5.50	30.20					35.70
Ì		18913				- '			3.10	32.40			·	35.50
		18914								5.10	34.40			39.50
		18915									10.00	31.00		41.00
		18916		•			,					16.80	10.00	26.80
		18917	.								-	·	30.90	30.90
	.		l		·							·		
.							·							
						a e								·
				·	:		į							
		Total	43.30	48.50	48.60	46.70	47.50	39.60	40.50	40.90	44.40	47.80	48.60	496.40

Drilling Meterage of Diamond Bits

JMC Chilwa

Teom	7,,,,,	Bit No.			Drill	ing Me	terage	by Dr	ill Ho	le, Un	it Met	er	·	Total
reem	Type	DIL NO.	JMC 12	JМС 13	JMC 14	JМС 15	JMC 16	JMC 17	JМС 18	ЈМС 19	JМС 20	ЈМС 21	JМС 22	IOLA
	56T	18931	6.80	:	12.70		6.60							26.1
		18932		12.00		8,40	9.50					,		29.90
		18933	40.80											40.8
		18934	ļ	30.00										30.00
		18935				39.20								39.20
		18936			35.90									35.90
Bit		18937				:	30.10			1.	i.			30.10
		18938			·			13.90	17.10					31.00
		18939		-				30.40						30.40
		18940		·					29.50	4.00	:			33.50
		18941		. :							36.60			36.60
-		18942		_			÷				11.80	10.70	12.70	35,20
		18943		-								34.80		34.80
		18944	·						-			٠,	35.40	35.40
		18945			·					41.90				41.90
		C750		6.50										6.50
		C758							2.80					2.80
		C760										3.30		3.30
		C761						3.90				÷ -		3.90
						. [÷							
	.			.		:			;					
					•		-	· .				100		
	ŀ	Total	47.60	48.50	48.60	47.60	46.20	48.20	46.60	48.70	48.40	48.80	48.10	527.30

Drilling Meterage of Diamond Bits

JMC Chilwa

Thom	Tuna	Bit No.			Dri1	ling Me	eterag	e by D	rill H	ole ,	Unit M	eter	Total
rcem	rype	BIL NO.	JМС 23	JMC 24	JМС 25	JМС 26	JMC 27	JМС 28	JМС 29	JМС 30	ЈМС 31	лмс 32	IOLAI
	56T	18918	32.20										32.20
		18919	6.40	28.40			`						34.80
		18920			31.50	6.90							38.40
		18921		18.90	15.70								34.60
		18922				34.60		4.20					38.80
	·	18923				6.70	14.40		9.20				30.30
Bit		18924					33.80	3.10					36.90
	,	18925						41.10			:		41.10
		18926				·			36.10				36.10
		18927								35.60			35.60
		18928	·							7.00	5.80	14.20	27.00
		18929									32,80		32.80
		18930										32.90	32.90
		C742							3.40				3.40
		C748						·		5,10			5.10
		C751	1.90										1.90
		C755	·								4.60		4.60
													ļ Į
		·		·									
Ì													
		Total	40.50	47.30	47.20	48.20	48.20	48.40	48.70	47.70	43.20	47.10	466.50

