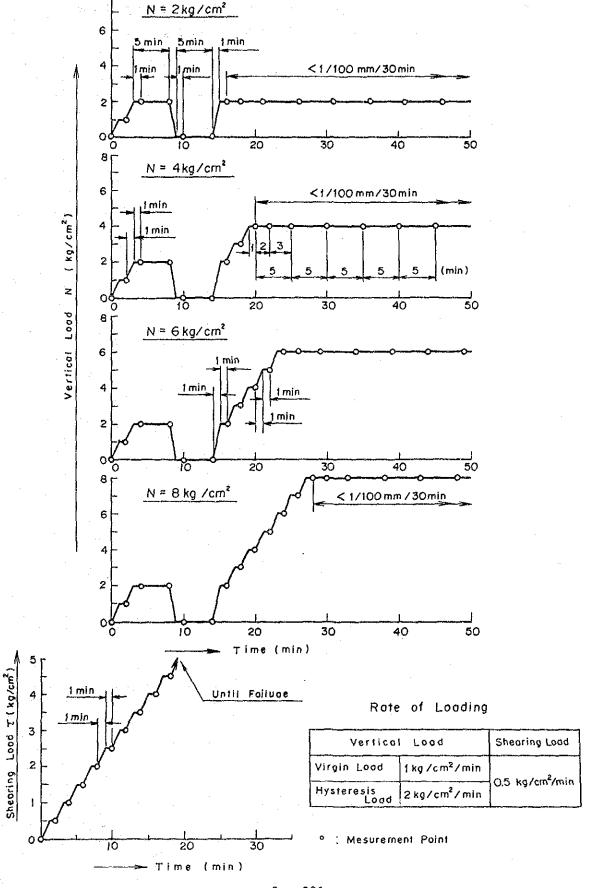
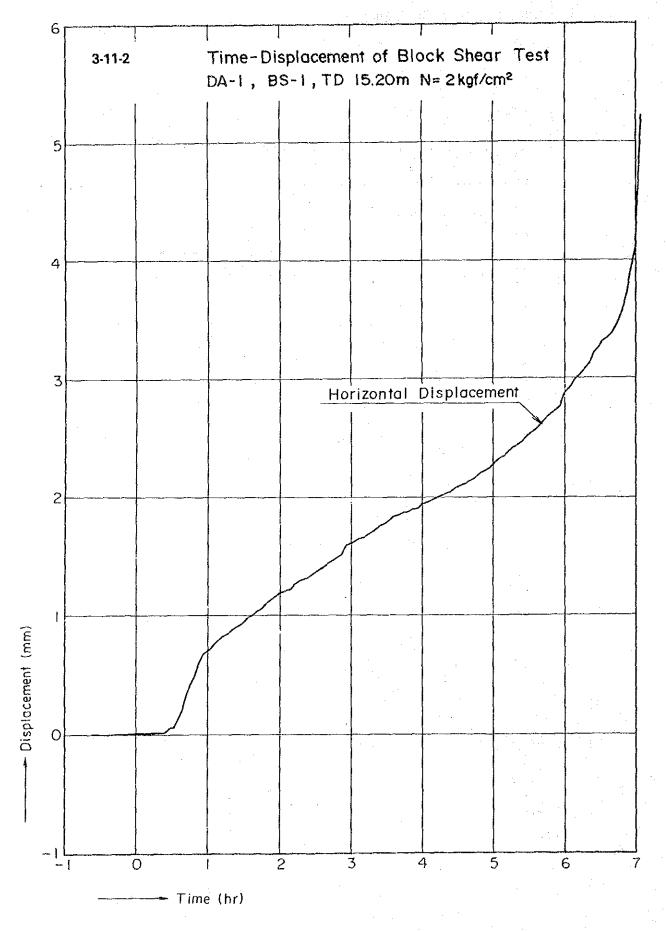
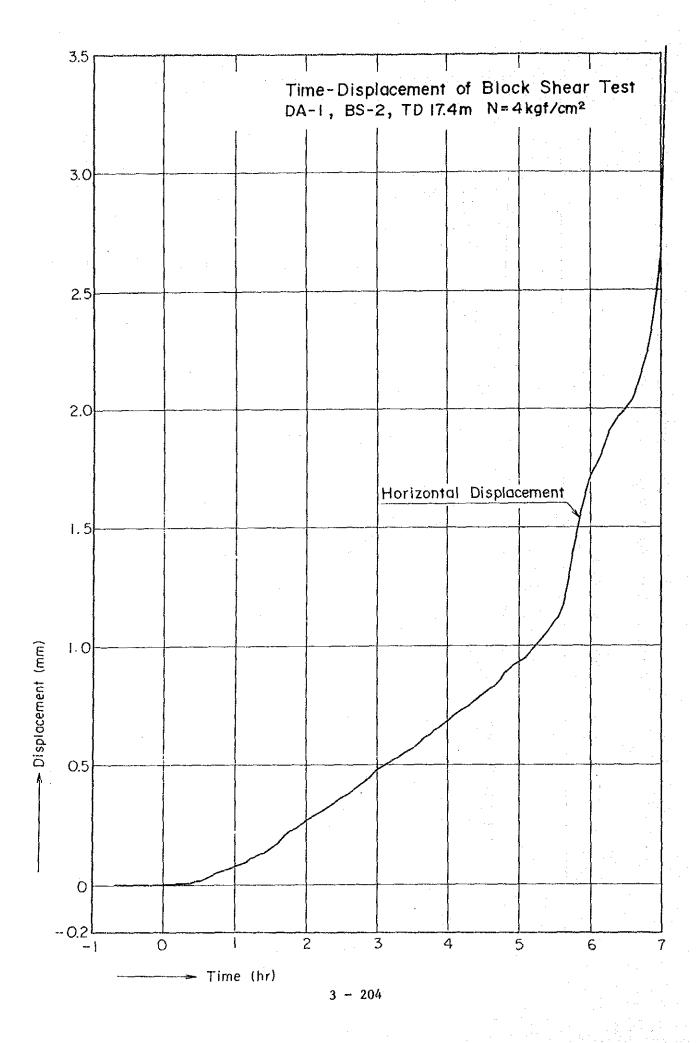
## 3-11 Block Shear Test

## 3-11-1 Loading Diagram of Block Shear Test

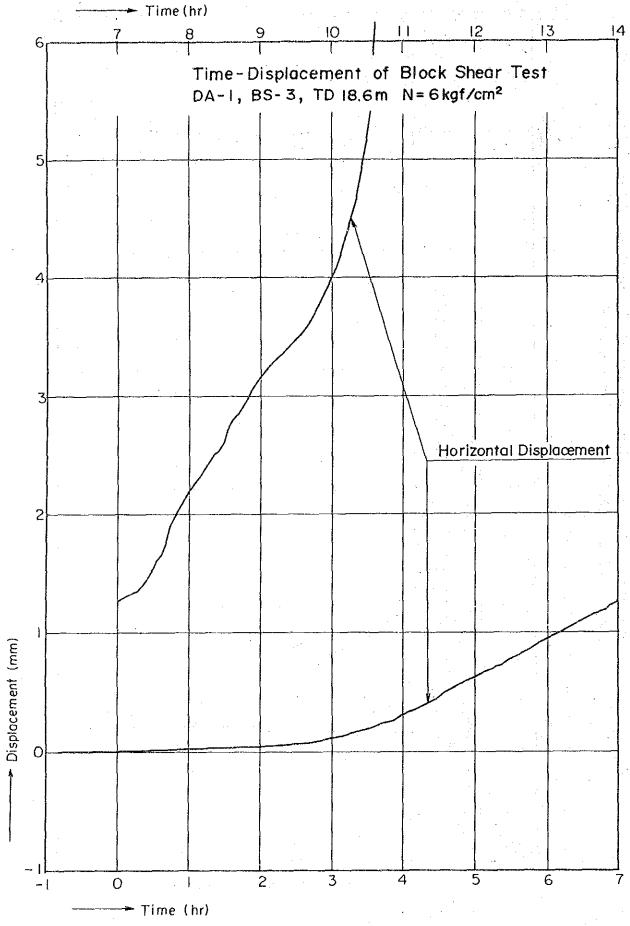




Horizontal Displacement Horizontal Stress - Displacement of Block Shear Test DA-1, BS-1, TD.15.20m N = 2 kgf/cm² N L -- Vertical Displacement (mm) Vertical Displacement - Horizontal Displacement (mm) (Front Side) Vertical Displacement (Back Side) 3-11-3 0 Horizuntal Stress (kgt/cm²)



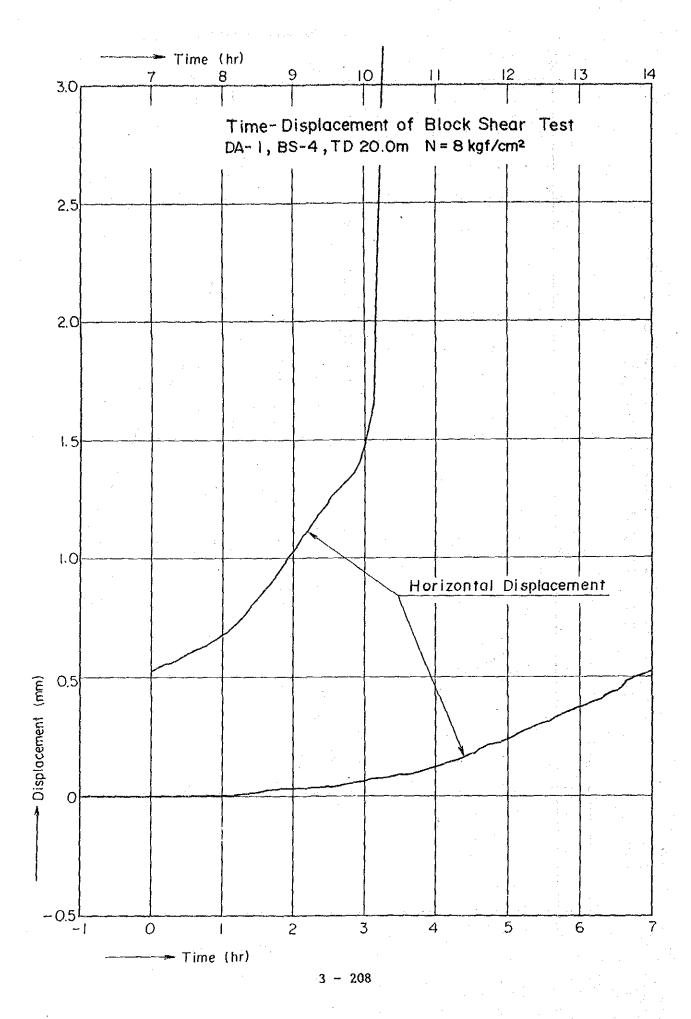
Horizontal Stress - Displacement of Block Shear Test DA-1, BS-2, TD.17.4 m N=4 kgf/cm² Horizontal Displacement 3 2 - Horizontal Displacement (mm) → Vertical Displacement (mm) Vertical Displacement (Front Side) Vertical Displacement 0 (Back Side) 8 Ö R Horizontal Stress (kgt/cm²)



2 64 S Horizontal Displacement Horizontal Stress — Displacement of Block Shear Test DA-1, BS-3, TD.18.6m N=6 kgf/cm² Vertical Displacement (Front Side) 7 Vertical Displacement (Back Side) - Horizontal Displacement (mm) - Vertical Displacement (mm) ī 0 7 Ö 9 - Horizontal Stress(kgt/cm³)

Horizontal Stress (kat/cm<sup>2</sup>)

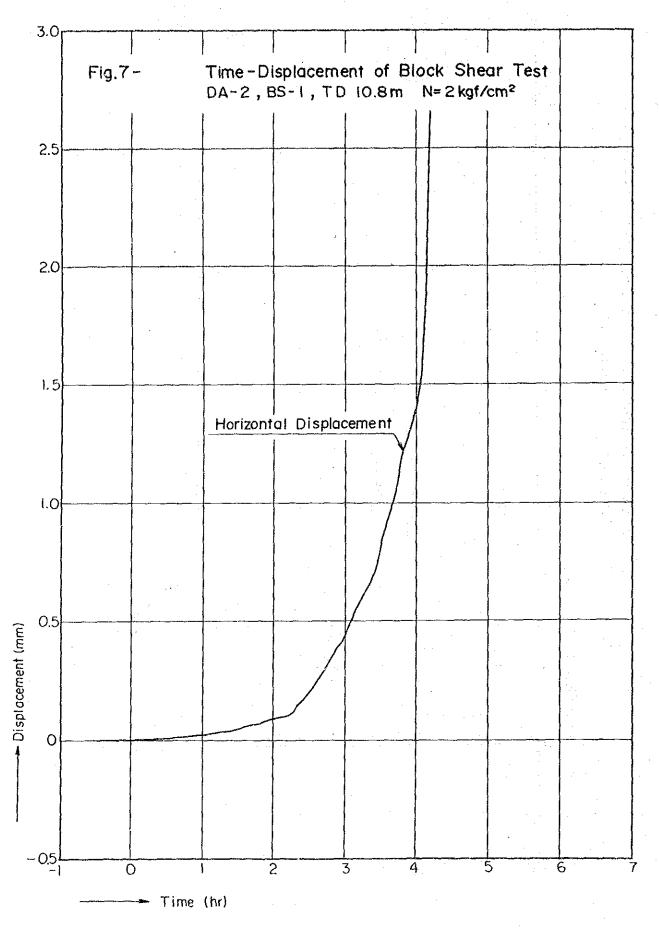
3 - 207

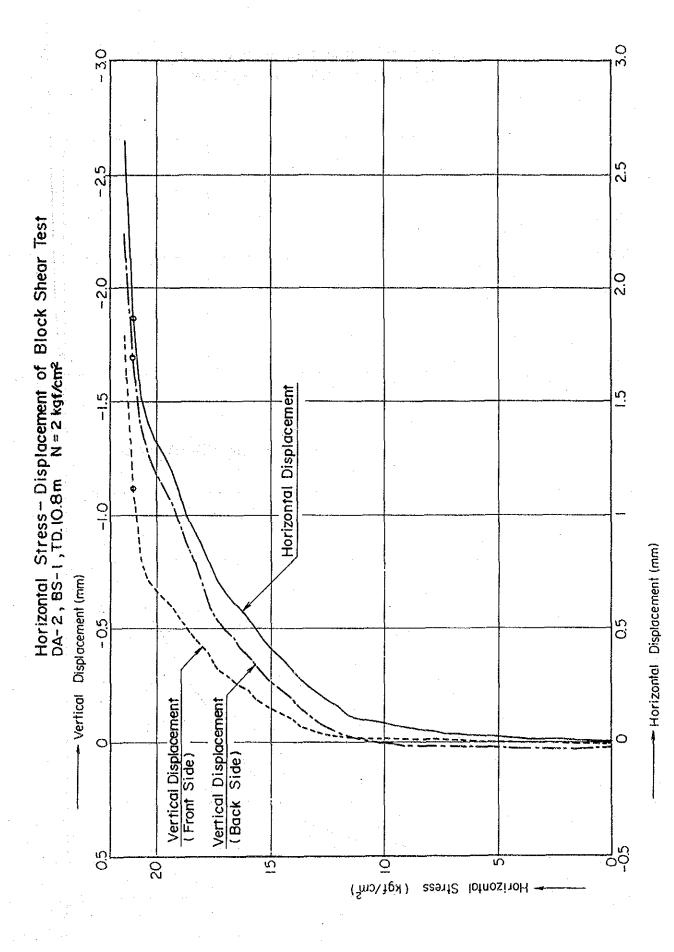


3 - 209

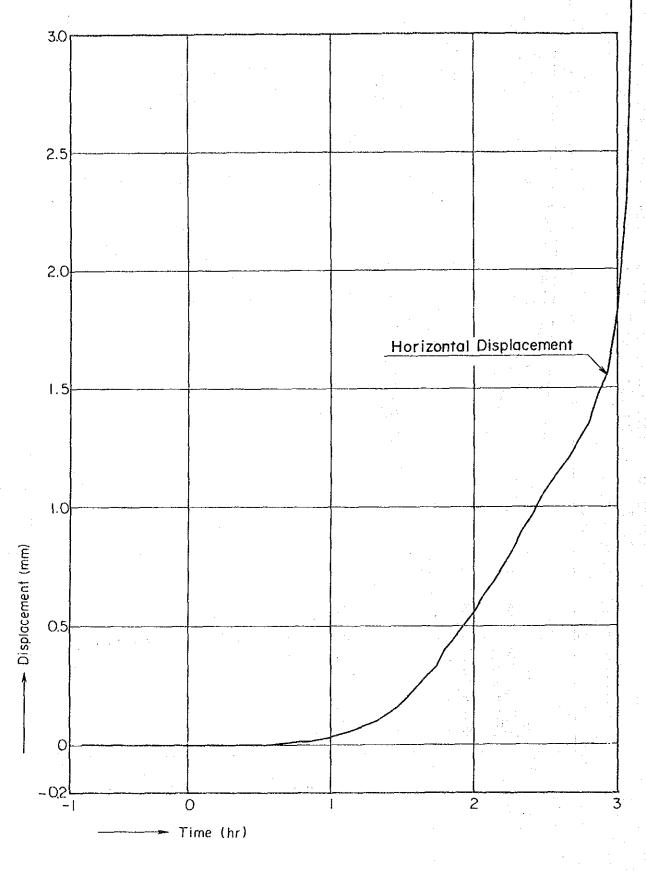
2 440 640 Horizontal Stress - Displacement of Block Shear Test DA-1, BS-4, TD.20.0m N=8 kgf/cm² Vertical Displacement (Front Side) Horizontal Displacement Displacement (Back Side) ۲ ➤ Horizontal Displacement (mm) - Vertical Displacement (mm) Vertical 7 0 Horizontol Stress (kgt/cm)

Horizontal Stress (kgf/cm²)



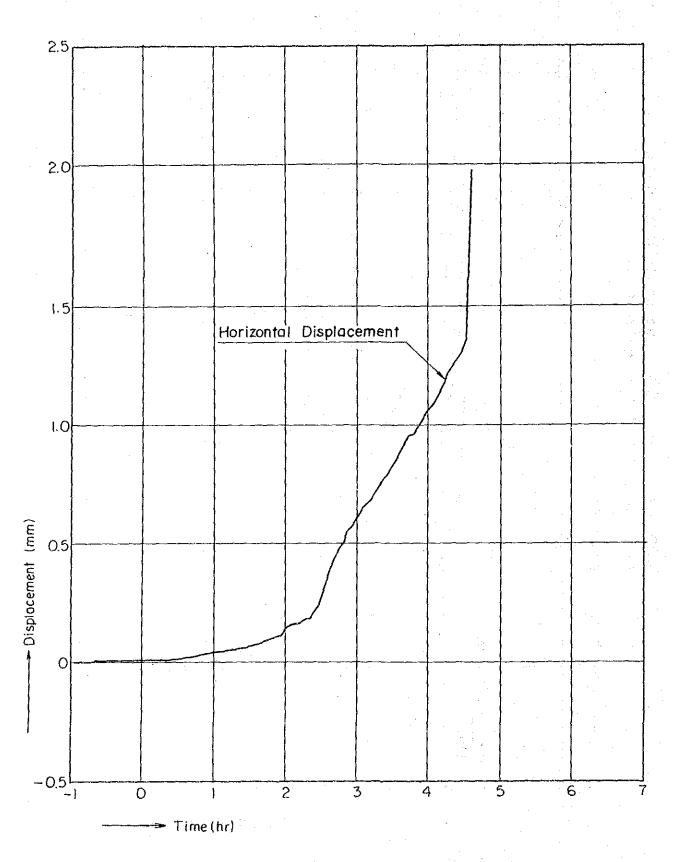


Time-Displacement of Block Shear Test DA-2, BS-2, TD 12.0m, N=4 kgf/cm<sup>2</sup>



3.0 25 Horizontal Stress - Displacement of Block Shear Test -2.0 20 Horizontal Displacement DA-2, BS-2, TD.12.0m N = 4kgf/cm<sup>2</sup> Vertical Displacement (Front Side) <u></u> 0. Horizontal Displacement (mm) - Vertical Displacement (mm) 0.5 -0.5 Vertical Displacement 0 (Back Side) 90-5 - Horizontal Stress (kgt/cm²)

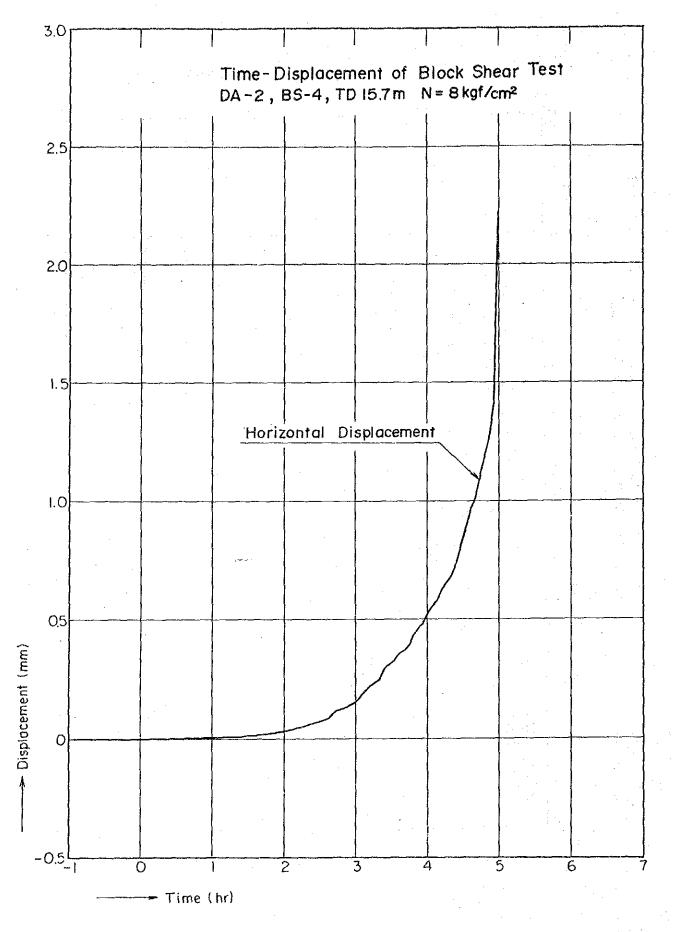
Time-Displacement of Block Shear Test DA-2, BS-3, TD 13.5m N=6kgf/cm<sup>2</sup>



120 2,5 Horizontal Stress – Displacement of Block Shear Test DA-2, BS-3, TD.13.5m N= 6 kgt/cm² -20 Vertical Displacement Horizontal Displacement (Front Side) 0. - Vertical Displacement (mm) 0.5 -0.5 Vertical Displacement 0 (Back Side) - Horizontal Stress (kgt/cm)

- Horizontal Displacement (mm)

Horizontal Stress (kgt/cm²)



120 2.5 35 Horizontal Stress — Displacement of Block Shear Test DA-2, BS-4, TD. 15.7m N=8kgf/cm² Horizontal Displacement <del>ر</del>ز 1.5 Vertical Displacement (Front Side) 0.7 - Horizontal Displacement (mm) Vertical Displacement → Vertical Displacement (mm) (Back Side) -0.5 0 70 8 0 សា Horizontal Stress (kgf/cm²)

Horizontal Stress (kgt/cm²)

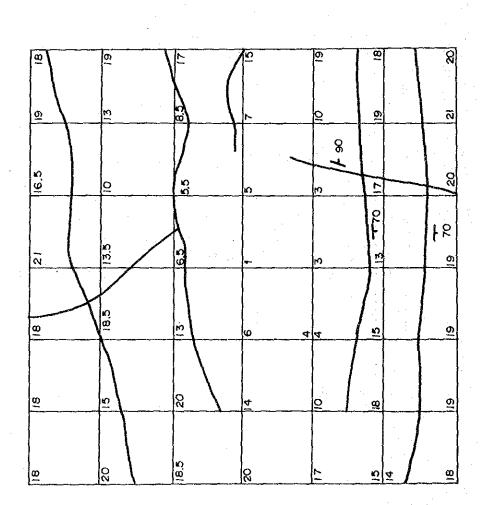
TEST LOCATION : DA-1 TEST NO. : BS-2

MEASURING POINT : TD-17.4 m

TEST LOCATION : DA-1 TEST NO. : BS-1

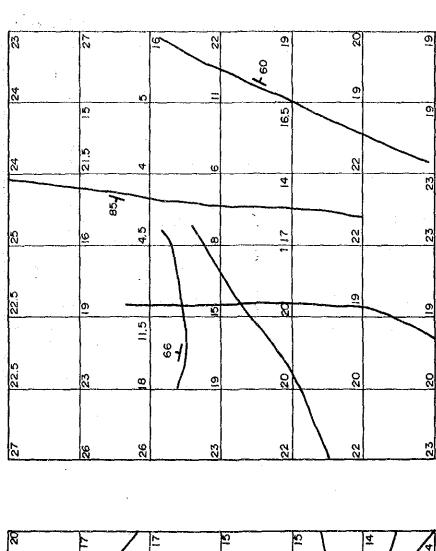
MEASURING POINT : TD-15,2 m

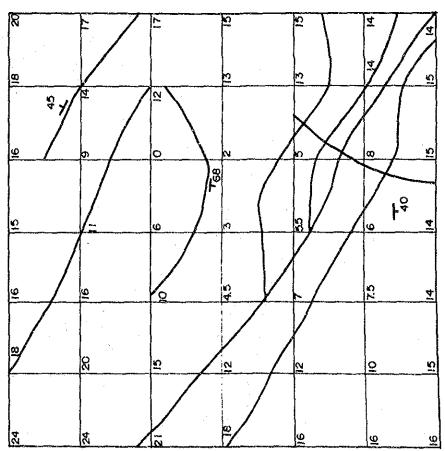
24 Õ 3 60 90ы Ω



TEST LOCATION : DA-1 TEST NO : 85-3

TEST LOCATION : DA-1 TEST NO. : BS-4 MEASURING POINT : TD-20.0 m MEASURING POINT: TD-18,6 m





SKETCHES OF ORIGINAL ROCK SURFACE

TEST LOCATION : DA-2 TEST NO, : BS-1

MEASURING POINT: TD-10.8m

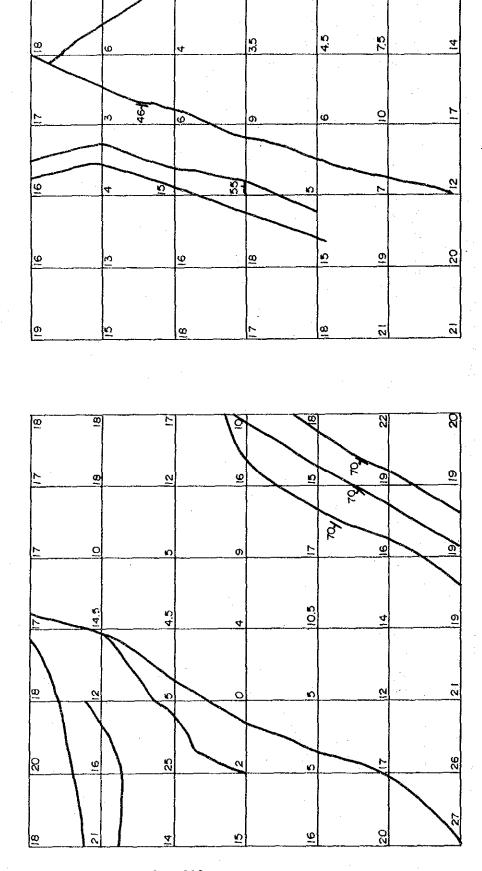
TEST LOCATION : DA-2 TEST NO : BS-2

MEASURING POINT : TD-15.7 m

R

8

S



24

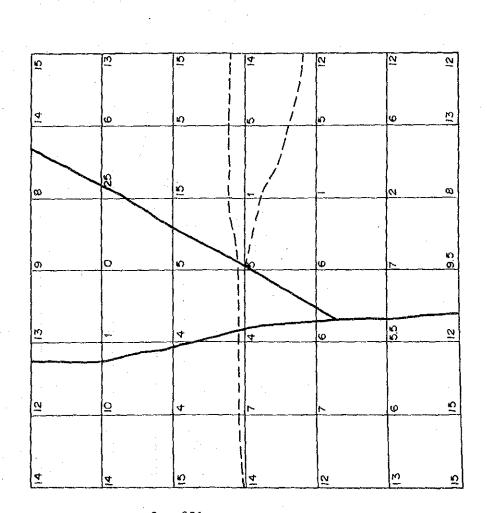
TEST NO. : 85-4

TEST LOCATION : DA-2

MEASURING POINT : TD-15,7 m

TEST LOCATION : DA-2 TEST NO : 85-3

MEASURING POINT; TD-13.5 m



3-11-5 SKETCHES OF FRACTURED SURFACES

MEASURING POINT: TD-15.2 m.

TEST NO:88-1

BLOCK BOTTOM SURFACE AR=3360cm<sup>2</sup> Ac= 240cm<sup>2</sup> ROCK SURFACE

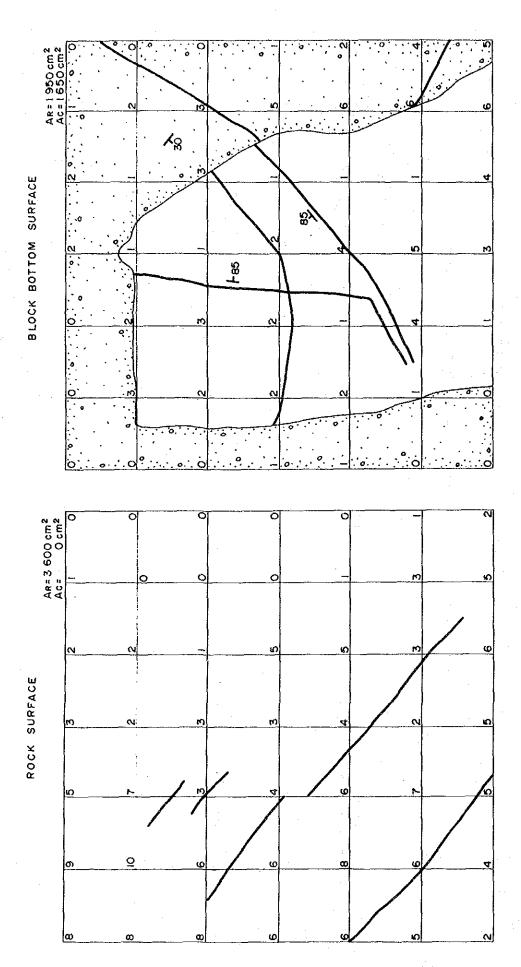
SKETCHES OF FRACTURED SURFACES

MEASURING POINT: TD - 17.4 m

TEST NO:BS-2

BLOCK BOTTOM SURFACE AR=2 420 cm<sup>2</sup> Ac= 1 180 cm<sup>2</sup> ROCK SURFACE

TEST LOCATION: DA- 1 TEST NO. BS-3 MEASURING POINT: TD-18.6m



SKETCHES OF FRACTURED SURFACES

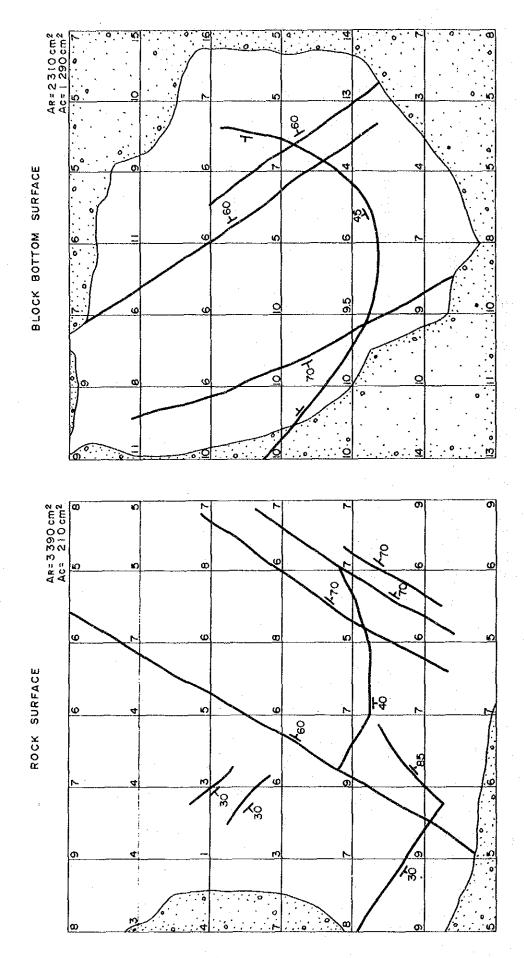
MEASURING POINT: TD -20.0m

TEST NO:BS-4

AR=1790 cm<sup>2</sup> Ac=1810 cm<sup>2</sup> BLOCK BOTTOM SURFACE ROCK SURFACE

SKETCHES OF FRACTURED SURFACES

MEASURING POINT: TD-10.1 m TEST NO:85-4 TEST LOCATION:DA-2



SKETCHES OF FRACTURED SURFACES

MEASURING POINT: TD-12.0m

TEST NO: BS-2

Ac= 320 cm<sup>2</sup>
Ac= 320 cm<sup>2</sup> Serpontine BLOCK BOTTOM SURFACE .8 စ္က 10 Serbantine AR= 3260 cm<sup>2</sup> Ac= 340 cm<sup>2</sup> Š Serpontine ROCK SURFACE Serpontine

SKETCHES OF FRACTURED SURFACES

MEASURING POINT: TD-13.5m

TEST NO:85-3

AR= 3530 cm2 Ac= 70 cm2 BLOCK BOTTOM SURFACE Serpantine Serpontine Ac= 0 cm2 734 ROCK SURFACE Serpantine Serpantine

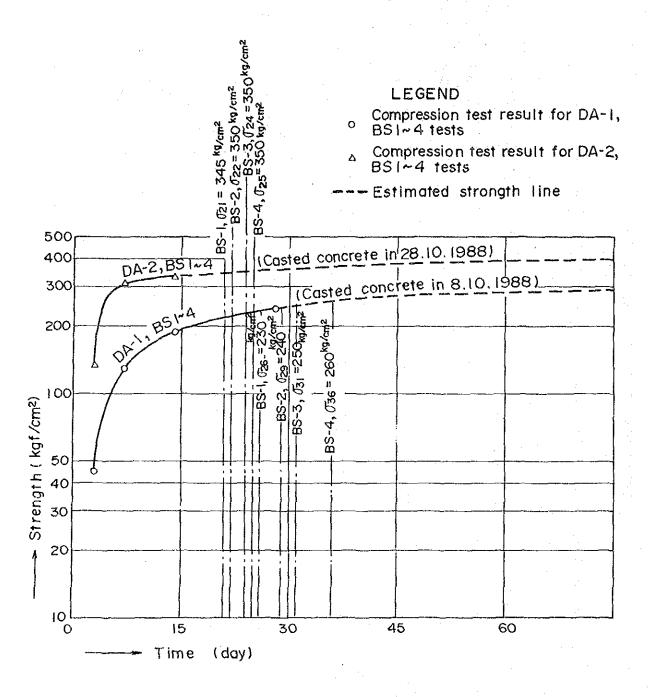
SKETCHES OF FRACTURED SURFACES

MEASURING POINT:TD-12.0m

TEST NO:85-4

AR= 3 130 cm<sup>2</sup>
Ac= 470 cm<sup>2</sup> BLOCK BOTTOM SURFACE Serpontine AR= 3 600 cm<sup>2</sup>
Ac= 0 cm<sup>2</sup>
(13 (1) Serpontine ROCK SURFACE

## 3-11-6 Time - Compression Strength of Concrete



3-11-7 ROCK SHEAR TEST DATA SHEET (1)

2 kg/cm² 3600 cm²		3																				
N = 2 A = 3600 B = 16.7	1	Remarks																				
	-3 mm)	@-@ 4	0	0	0	20.00	0/	27.45	200	627.73	3/8/2/	200										
Block No.	or (xio	0	0	0	0	0	0	0	0	0	0	0										
80 5	Horizonial Displacement (x10°3mm)	<b>©</b>	0	0	0	0	0	9	0	0	0	0										
11.11 er 825.3	infal Di	9	0	2	0	7	9	2	7	0	0	0	-									
d by Ram Diameter #25.33cm	Horize	ග	0	0	0	0	0	37	7	'n	2	Ŋ					-					
ج و		<del>2</del> ⊕+⊕	0	0 .0	0	0	3/5 5%	2.5	45.2	02	2 0	2-0										
Grade Measured by Measured by Lunits, Max. Oil Pressure 2017 kg/cm². Ramunits, Max. Oil Pressure 2017 kg/cm². Ramunits, Max. Oil Pressure 2017 kg/cm². Ram	(x103 mm)	⊌	0	0	9	0	7 - 4	0	1	0	Ó	0										
39 701.7	ement	<b>©</b>	0	0	0	0	7	0	0	0	0	0			1							
72 - 15.20 m2 Max, Oil Pressura	Olsplacement	0+@	0/	4 4	100	27.5	80	57	137	189	200	25.190										
720 - Max. 0	Vertical	0	0	8	87		5	-9	2	8		, ,		-								
Point ode units,	۶	Θ	ø	0	75	,	- 2	7-	0	0	0	0										
3 3 1		lack hessure kg/cm?																				
1 20 Mg	11 75	fortantal Stress (kg/cm²)														<del>                                     </del>						
Geological CA-1, BS-1 Mea Geological Classification Capacity 200 ton x Diagonal Jack Capacity 200 ton x 2	A Ck	1	0	7	**	*/	0	0	14	74	747	7/	701									
29-1 Capacity	Vertical Jack	Vertical Stress (kg/cm²)	0	/	ч	7	0	0	2	2	2	. 2	7									
ocallon ical ificallor il Jack	100	Elopsed	0	0	77	8	9/	20	28	32	34	37	77									
Test L. Geologi Class Vertica Diagona		Time																				
						:										 		-				

kg/cm <sup>2</sup>		Remarks											. )																					
ž	(x 10 <sup>-3</sup> mm)	(a) 4	<u> </u>	03.26	0.8.86	1670	0,5,96	66 80	10.8.07		25.65	838 182	106/23	123,5728	8.50%	100	82.8.79.6	26.270.59	39 3/4/0	13,5%	2628 300	20,5 8.70	38.286	27.30.6.12	9279571		21.30474	19. 19. 19 S	1.8 154.99	8	1000	28.87.63		12.3.978
05-1		@	36	9	0	0	0	0		ta	62	001	9//	144	18	187	27	30	ঘ	3	28	B	20	26	28	28	38	27	34	777	17	à	29	29
1	Displacement	0	0	0	0	0	9	0	O	37.5	36	5.2	103	113	124	120	86	72	12	80	43	0	76	76	7	67	0	28	0	45	າ	32	3	0
04	ntal Dis	9	0	Q	/	0	1	0	2	0	7	W	82	1/2	156	92	87	à	72	100	27	0	91	2/	6/	09	8/	5.5	6'	01.	49	7	38	77
Block No.	Horizantal	9	7	/	7	2	7	1	0	30	- 60	175	725	32/	63	149	82	کیک	\$5	ΩZ	31	3.2	53	28	2	-2¢	29	23	61	†) (X	28	78	Ź,	38
Bloc	(ĝ	3+0	3.7.30	500	51.2	37.6	30.0	105.20	2 40	19:01	-23.28+	44 5.25	32//282-	8 5 ch	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	127.02	186257-	-27 3055	115%	132.34	65.50%	16.2.5 B	7.965	4896-5%	12.56	11.587	-75.FF	-115w64	10,22	1/42	64.26	24.00%	-13.46.	100
2	(x 10'5 mm)	<b>(a)</b>	8	_	0	0	0	1 6	4	0	- 4	- 21 -2	2	-32		0	- 61-	1 /	2 -	- 2 7	7 جي –	6 -	0	- 3 7		2	- 6	- 6.	- 3 -	07-	- 6 -	∞	: L	3
5 15.		<b>6</b>	/-	0	0	0	0	0	0	12	037	٥٤, -	-97	6-5-	5-5-	-80	-,32	53	-/7	-25-	-78	- 8	31-	22	07-	20	٥	-7.2	- 2	77-	ى ب	77	-39	0
7.5	Olsplacement	<u>0+@</u>	2.85	\$ 29		2.65	32.6	11/11		300-	9.60 E	-14.569	\$ 12.55 T	×45.	130636	inste.		43765.60	- 15 gras	236.5	-18.5%	3.886	1003	5160/25-	-2 E/asts	7/0875	9.5	14.11k	13.13	21.54		E. 1	30,5265	12/2/20 B
Measuring Point		(O)	28 61	50 1	105	0	8 -4	2-18-	20 -10	-82 -68		-138 -"		-1837		6. 8	8-26-	r 87	-50	63/12	17.	F- 32-		25.	-18 -	- 2	23.78	-17 7	_	12/-	19 20	1-6/-	-33	-4
Megsuri	Vertical	Θ	0	0	0	0	0	0	0	5-4	43		1361	24 -		- 169/	25	. 176	00	- 25	- 26		'n	22-		8	-28		-22		22 -	75.	827-	3
(2)	Jack		2.25	4.5	6.5	8.75	077	13.25	15.5	- 5.2	- 3261	22.0 =	- 52.42	26,55	28.5	30.75	330 -	35.56	37.5	- 395	41,75	440	4625	28		5228	6.55	\$7.55	2065	\$1,5	8375	099	5789	205
SHEAR TEST DATA SHEET	Diagonal J	Vertical Jack Harizand Jack Stress Pressure Stress Pressure kg/cm²)[kg/cm²]	0.34 2	. 1	1	1.33	1		2.35 /	2.65	}		3.68 2		_							-		_		$\Box$				9.33	9.67	, ,	1	
DATA :		sure Str sm²) (kg	7 7/		0	/ / /	7	2	, 2	7	3	٤.	۵,	4 4	7 "	" 4	ν,		3 "	, . &		, ,	, ,	, , "	,	, ,	7   "	7	,	5 "	5   '	, 1/4		,
IEST (	ica! Jack	col Jac) 54 Pres m²) (kg/c	2	~	,	,	,	,		,			,	-	"	,	"		,		*			2			-		~	,	~	-		1
EAR .	Vertical		0		8	/2	9/	20	24	82		74	40	74	83	2,5	ટ્ડ	ŝ	7	8	7/	9/	20	メベ	28	32	المحن	07	22	83	25	785	00:	70
ROCK SP	F	Time initia						-				9						``		<b>-</b> -	-	_	_						-				2	
<u>بر</u>		F													L						L,	<u> </u>		L.		L	L.		<u> </u>		L_			

<sup>kg/cm</sup> <sup>2</sup>		Remarks																																
N. 2			C+ .	7	a-	100	32.	gri.	Q.	ζ.	12.	23	47	9	(5)	35.	127	\ <del>*</del> 7	64.	(2.	156	000	2	( <del>*</del> 5.		( <del>*</del> 9:	Ţ	175	25	2	(2)	·3*	3.6	2.
	10-3 mm)	<u>0</u>	-		_	103.00		300/20	13.0.35.0	STANES.	220 438		22,48.56		X	Sylves		155/5/2	1000	28,500/	30/2/2	32.8.08	13.50	225.20	1000	11.8 purch	沙龙	25/25/20	12:5507	6387		45.00.54	20,566.3	1/3/2/
2-1	×	(9)	رن س	36	5	22	28	12	21	25	17	36	35	070	4.5	/2	43	43	4	14	2	99	15	3	X	7	44	0	1,8	23	OS.	77	23	20
-1 BS	Displacement	0	0	0	55	0	0	55	0	48	0	40	q	0	36	0	0	37	9	0	22	5	ş	0	30	7	3	0	92	7	भ्र	9	29	28
24		9	12	877	0/	8	]//	00	8	35	161	6	12	22	30	5	36	151	7	13	24	161	38	32	Z	2.3	7		36	ή -	757	0	Y	8
Block No.	Horizontal	ඉ	3/	ξ	₹,	23	350	579	747	25	29	,60	175	3,50	7.76	8	0/	81	6	59	0	13	7	36	23	2/	36	12	19	ß	37	0	S	18
Bloc	.3 mm }	<u>3+@</u>	-22.74	-9-483	35057	1.49.5	183.37	25075	115.EF	735.28.1	-8-5465	- 25534	108.01	18:5%	165-02	165-0	1835	69.50	308	3-611	JA27 5.66	175.92	0 350	1 977-12-	-3-169	35.60.5	2005	8,000	103-	12,895	102-1	2003	25.200	1.80-2
244	(x 10 <sup>7</sup> 3;	•	-7	-9	- 7	2 -	6-	-15		-2	-74	7 ~	-10	_	27-	0	-11	9-	2	- 9 -		-S-	- 1	61-	-6	-2	9/-	- 2	. 9 -	カー	3	2	-2	18
0 15,2	ement	<b>®</b>	- 7	6-	-8	0	-6	- 2	- 28	- 20	- 2	-/0	0/-	- 2	-23	0	Q	15/-	9	0	-20	- 30	0	- 29	0	2-	0	-2	0	- 20	٥	0	?	-2
tri	Displacement	0+©	-16-71 PE	(1825)	1/200	1000 Far	12E/2017	20.00	13.00	13/12/	34/40	18.00	Se la la	1.25 MES.	14/20	1,6,488.9	2556.99	275.08	6838	12,00	12/2/E	16889	- Some	1978	22.50	125/684	160/-6-	-85/186	1.Erman	1000	- Sund	1/1004	- N	Page 1
Measuring Point	Verrical	@	-75	7 -	-33	37-	2/-	32-	य	9	-17	-20	-13	-20	۲,	8/-	-37	0	- 9	-22	20	22	-/6	-/9	-43	7	∞ 1	- 2	-12	-/3	8	-22	-7	125
~ !	^	Θ	- 22	-79	- 20	n/ -	60	-39	70	- 26	- 52	-12	- 18	-23	-23	5/-	1.9	51-	£2.	- 2	- 9	- 33°	0	-38	-22	-12	77-	-10	-/8	0	7-4	0	7	0
ව  -	Jack	ock rassure (g/cm²)	725	74.75	220	29.25	3/8	335	8575	880	3008	225	345	96.25	990	10/2	1035	3501	107.75	000	2777	5777	2.911	287	0/77		05%	1275	25.67	0287	37.77.07	1365	5327	0/77
SHEET	Diagonal Jaci	Herizonal Jack Stress Pressure (kg/cm?) (kg/cm?)	1100	3677	11.68	1202	90.27	12.66	13 67	35.57	13.69	16.03	14.33	19.67	1051	18:37	15.70	0.81	14.3%				19.0	17.97	1835	18.65	18.87	19.34	19,68	20.02	36.02		10/12	8/2/12
TEST DATA	Jock	lack ressure kg/cm²)	7/	"	4	"	7	"	Š	"	1	"		"	77		"	"	,	. "	,,	ï	"	//	"	"	. "	"		"	""	*	Î	2
R TES'	Vertical	(Spood Siress Persons Jack Bossure Siress Passure (Spood Siress (Ressure Siress (Refem?)	7	<b> </b>	"	7		"	7	7	1	,	1	"	7	. "	"	7	7	1	"	1,7	"	"	//	"		,	"	1	"	1/	"	~
SHEAR		Elopsed S	80	12	9/	20	24	28	20	36	40	77	48	52	55	3:00	50	80	12	76	20	24	\$2	32	90	40	777	87	25	55	4:00	カロ	80	2/
ROCK		Time					1				1													·										

																														1					
2 kg/cm²		Remarks															. [																		
× Z	10-3 mm)	@~@ 4	12/2	700	6650	2000	1305/	10.5	13,2/30.2	36.50	32066	12213	1207	7522	\$ 1. \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	12.25	Signal Signal	36,440	100	27.8.50	177	3/4/5/3/4	1000	377.80	100 m	36.00	30 27.295	130	900	64/8/6	10867	26,007	138	50%	
1-58	-×	<u>)</u>	~	32	20	33	200	3/	20	28	2	77	ģ	2	18	13	3/		17	30	Ŝ	45	5	28	7	07	38	1/20	16	75	22	*	45	20	
	Displacement	(£)	0	'n	0	83	0	37	1	0	977	0	0	90	28	0	82	ئ	0	0)	4.5	32	/%	42	39	4/	35	25	185	9	7,	B	30	25	
DA-		9	32	27	///	177	٤٧	57	26	29	7	5/	77	3	57	/2	0/	સ્ડ	792	T	40	7/	1/25	6.3	32	15	67	000	8/1	152	X	0	727	12/	
Block No.	Horizonial	<b>6</b>	2,5	34	0/	38	6/	2	24	50	20	5/	8/	20	59	30	31	40	S	3,8	\ <sub>0</sub>	7575	z 2	Ϋ́E	21	7/	2	37	SS	43	145	2	25	35	
Bloc	mu)	40	8-518	26862.21	764.50-	-12.5%	-3-949	16,24	1,264!	246-8-	2-501.5	48655	-1.5 m	465	-2-812	918-2-	95878	-3KN	\$388	1385/	-13 grap.	205-02	818.31-	18:20-	16.947	10.595.51	\$136.21-	6365.61	100/27	-22	2/09/8	10/10/2	27.5	18/18/1	
4	x 10-3 m	<u>ଡା</u>	0	74	1	7 7	- 9 -	- 3-		- 19/-	•	- 5 -	S	-/37		-//-	- 2 -	-23	- 4	- 12 -	. 6-	-10	-13	-8-		- 47	- 6 -	72-		77	-43		- 22	-15/-	
FD 15.	nen! {	69	0	- 77 -	0	07	0	- 6	-20	0	۲۷	0	0	- 20	-12	3	2/-	9% -	9	7/-	-/2	. 01-	5/-	8/-	-12	- /2	8/-	2/-	- 28	232	-25	9	23	-22	
	Oisplacement	0+©	1. CHZ 2	1.5059	4608	18/3/	46287	16/84E	10.00	4/80/ 67-	6706/2	4,906,7/-	69.67	-28/35	12/2/2		1949	Town?	17:08:		1	200	43412	-22.1829	-17. w	12.22	1 10 TES-	155,2099	4605.7%	46.33.5	-7. uno 4	0	20,500	38.55	
ng Point		(O)	10	3	$\sim$	202	-12-	-//-	20 -			10/-	17-10	- 29 -2	Z 8/-	187	12,52	12- 82-	1-61	-15/-	5- 5.6.	-38 -29	2-12/-	- 22 -	₹ €€	-22-		-3/1-	- 460	45.7	-83-	0	-45	7/5-	
Measuring	Vertical	Θ	0	- 36	0	8	- 75 -	.   77/=	0	-/8	-32	- 13	'n	- 22	-29	6/-	61-	28	-77	- 26	61-	L	82	-27	L-	٤-	-/7	02-	-33	-43	-2/	0	96-	-20	
( <del>/</del> /	Jack	•	1430	146,25	147.5	149.5	1	15%	1,560	1580		- 1	0.59,	1670	. 0691		1735	.76.		0.08	028	348	1870	0641	0/6	93.0	5.56	080	2200	2020	2040	206.5	5090	01/2	
SHEET	Diogonal	Harizand Jack Stress Pressure (kg/cm?) (kg/cm²)	2/69/2		22.37	22.67 19	23.05	23.86	23,66			2465 10	20.5		1				7	]		łY			<u>.                                    </u>			1000	k - 1				0278	3200	•
1	o you	ssure St	*/		1 2	11 2	" 2	2	" 2	7 2	,9	, ,	, ,	, ,		1/2	7		4. 2	11 . 2	,	,	7 7	7	,	11/2	,,	,	1	1	,	"	,	,	
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SHEAR	Ver		9	20	42	28	32	36	3	7575	87	S	ሪያ	5:00	200	80	12	9/	20	74	28	32	90	3	72	87	52	35	00:9	70	80	12	7′	20	
ROCK		. <u> </u>																			zs.														

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Mg/cm²	:	Remarks																																
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7-5	) )	(9)	1/5	23	22 6	43		95	8/	1221	243	1/2/	2//4	_																				
-1.85-	Horizontal Displacement	(O)	6/	79,79	\$\$	10	75	87	£	Ş	352	*	0/0										-							-				
1-40	tal Disp	9	6//	777	8%	77	À	72	4.9	807	7.36	8/2	1872																 ·					
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Bioc	m)	<u>3+@</u>	83//82-	18181	81.99	19/29	17.5.7.	057/5	18.5	-1833	1.294.60	133/ 1/35 1/35	228P	_						-						l								
2	(x 10-3 mm)	<b>(3)</b>	- 9/-	00	-16 -18	101-	-107		-38-4	-615	-1107	202-201	-829-	_	<u> </u>												-							
TD 15.		<b>®</b>	42	83	-20	-10	277	-37	8.5	-75	1.30	50	-6%9-																					
	Displacement	0+ <u>@</u>	- 1805 JOE	- 20.54.9	181632	4.59.7	2002	1	1 1 a	. 1	884	62862			_												,							
ng Point	icai D	<u>O</u>	85 35	101	25-02	20 -1	26 -19	34 3	62 -5	85	80-108	90	2/130	0																		-		
S) Measuring Point	Vertical	Θ	- 61	30	- 92	80	//	3	-184	-32 =	- 1/5/-	22 =	505		-	-								-										
_	χg		2/30 -	2150	2/20	220,	2220	2240	2260		•	2330	356	_	_	<u> </u>		_			-							-	<u>                                      </u>		<u> </u>	<u> </u> 	-	
SHEET	Diagonal Jack	ess Pres	3209 2	326/ 2				3397 2		5 39	0500 Z	35.34 26	135.6%					 			_	-					_	<u> </u> 	_			<u> </u> 	-	
DATA	ŏ	sure Str im2) (kg	7/4			ۍ //			6 1	ر ا		1, 23	Ĺ		-	<u> </u>		-		<del>-</del>	_							_	-					
TEST	Vertical Jack	icol Jaci sss Pres :m²) (Joy	2	-	,		1	/	,	1	,	,	-			-		-	-		-	-		_		_	-	-		-	-		_	
#EAR	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Express   Personal Jack   Express   Personal Jack   Express   Press   Pressure   Express   Pressure   Pressure	777	Ŀ	2,52	*	97	77	48	25	55	2:00	26	-	-		-	-	-	_	-	-		-	_	<u> </u>	-	-		_	$\vdash$	<u>                                     </u>	$\vdash$	
ROCK SHEAR TEST DATA		Time in			1			7				6						_																

ROCK SHEAR TEST DATA SHEET (1)

4 kg/cm²	3600 cm²	]]	Remarks						-																							
ž		-	@ <sub>4</sub>	00	0	55.20	03.6	-12.6	23.50	0.8.31	150	180	23.80	2.3.7					7		-											
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11.19	Ram Olameter #25.35 cm	10	9	0	0	0	0	0	0	0	0	0	0	0	-	_												 	- - - -	j		
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Measured	6		9+9	0	25.05	200	200	200	20.0	15.7	51/0	230	2.4	0/4/2		-		-		-												
Date	Measured 3963 kg/cm²	١ ٩	•	0		0	0	0	0	-	0	ā /	77	Ī.,		-			-													
i	396		(e)	O	0	0	0	0	0	0	0	0	0	0	-																	
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a.L	Mox. Oil	Variable		0	[ ]	200	0		0	9		0 6	9		1	-	-		-	-		-										
oint	units,	>	Θ	0	0	/	0	\$	0	0	Ų	ربي	3	0	-	<del> </del>	<u> </u>		-	-				-								
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. 1	<u> </u>	11 3	rizona Sa ress g/am? (k				_						_		-		-	_	-	<u> -</u>		<u> </u>										
DA-1.85-2	200 z	10 400	ock to	0	7	7/	757	0	0	7/	12	29	0	20	-	-	-		-	-		-		-	-		-					7
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atton	ol Jack Co	1	Time Vertical Jack Horisona Jack Elapsed Siress Pressure (kg/cm²) (kg/cm²) (kg/cm²)	0	0	7	8	91	20	2.8	32	36	3	777		-	-			-	-		-					-		_		1
Test Location	Classification Vertical Jack Copacity Dogonal Jack Copacity		E E																													1

<b>4</b>														ı.																				
4 KO/Cm²		Remorks																																
ž	10-3 mm)	<u>6~@</u>	450	100	15.0	0.37	27/2/0	1252	2.5 8.0	43.11.8	877.8	8.35.8	83.351	1/2/61	78.52.9	6.5.60.40	7.88 27	10.8 29	5.8.26.2	958	1.65,000.3	6.44.3	8.3,236	8,73/6	18758	12/16/	125.0	22.32.9	25.00	\$ 222.7	18.5.91	4.35.50	4.269	10.5
2	ت	9	0	0	0	0		0		/	۶	7	76	\$		8	13	9	11	9	67		12		87	01	63	17	20	7	37	12	3,	0/
1.85-	Displacement	0	0	0	0	0	2	9	0	77	8	0/	12	3/	9	2	3/	/3	8	71	12)	9	7.2	77	20	90/	17	70	28.	7,5	2,4	91	7	10/
1-40		9	Ø	0	0	0	0	7	2	12	×	22	2	23	6	//	0	///	/	01	77	01	و	3	9,	3/	7	23	27	1	12	23	?	0
Błock No.	Horizonial	9	0	0	0	0	0	0	0	0	0	0	3	/	///	5	3	///	÷	8	07	9	7	6	12/	9	22	29	0	8	%	6	77	12/
Bloc	mm}	<u>3+@</u>	100	13/0	170	7-10	20	70	2/0	0.0	132	35	25.0	250	2.8.0	35.0	250	25	3.8	38	25.		35/0		35	2.5	15/6	150	2.5	15.	12/2	25/2	0/25/2	500
17.4	(x 10 <sup>-3</sup> n	<b>(</b>	0		0		-	0	0 0		0	0	0	0	-	0		-		0	0	0	0	0	0	0	0	0	0	0		0	0	0
1011		®	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	9	d	9	0
j	Displacement	0+©	5.60	2.6.0	2.6.4	500		28.50	125	20,00	м 1	3/0	200	4/0/	25.5	١١	3,12	22.5	2.4.5	2.8.	100	\$ . \$ . \$ .	4.83	·*/	5/A 1/4/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/	12/2/-	\$\ \\$\ \\$\	15.20.5	125/2	10-6	\$32%	\$277	12/2/2	18/
Measuring Point	Vertical	<u>)</u>	0	0	0	0	0	0	0	00 D/	0/	7	9	9-0	0	0	0 چ/	7	0 -2	12/2	5	$\neg$		2	ν, γ	-7	17	- 8 1	20/-	-/0/-	7 7/-	7	0	3
Megsur	Ver	Θ	0	0	0	0	77-	7 -	7	7	~	7	9 -	00	_ 7	3	190	9	7 7	0	-12	-	3	8	0/1	-/2	-13	- 22	77	80	3/-	\$7-	9	?
T (2	Jack		225	2.2	5.5	8.25	. 011	52.27	05.37	27.5	.925	220	2425	265		30%	350	37.75	325	366	52/7	0.77	4625	485	1	1	0,555	5725	29.5	5/5	(325)	66.0	2589	205
SHEET	iagonai	Vertical Jock Paramal Jack Stress Aussure Stress Pressure Rg/cm²] (kg/cm²) (kg/cm²)	0.34	: -		_		2.01		2,65	300		368	]		1					<u></u> ļ	6.67	إن	ļ	2.66					!	깂	1	- 1	10.09
DATA	OCK D	ock tssure  S g/cm²) (v	29			,	1	7	1	"				,	,	"	,	,	,	1	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	1	,	,	1	,	1	,	-	,	4	"
TEST	rtical	rticaj Jk ress Pr j/cm²) (k	7	7	ï	,	1	· ·	7	· ·		1	7	- '	"	,		,	"	7	-	ï	1	7	"	-	. 1	"	-	,		1	~	,
SHEAR	,		0	4	8	72	/6	70	77.7	28	32	38	9)	777	97	52	55	œ./	4	00	/2	9/	20	77	28	32	ž	92	44	89	25	356	2:00	70
ROCK SHEAR TEST DATA		TIM.																					1				\							

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4 kg/cm²		Remarks			,							- ]																							
z	a	(a)	292	62.78	16	463	Cime.	/×	15.7 15.7	129	5265	13	3.0	25.77	2003	, e	l'ai	180	38.0	15	13/	, <del>5</del> ,	100	Ce.	(3)	1	180	13	1/5	\%[ \%[	13	12	17	3/2	
	10-3 mm	انسادا	3)	<u>6</u> /3	1.5.31	19.05.294	3/	37/	16.372.3	8.5.28		163456	408 801	-2/ -2/	20.5	7	_	163.3509	6/2	25.20	*/\ *	12.558.3	10 1885	12.3503	3.8KE 8	130	17:20	128,002	6354	14.8.205	16,1865			2/6	
85-2	X)	@	18	7	\$7	9	07	18	6/	3	9	23	0	13	17	5)	6/	6/	>	0	0	5	80	7	22	12	12	31	7	20	20	9	17	12	
	Displacement	0	*/	16	81	12	8/	\$/	202	0/	20	77	69	9/	2,5	11	Ф	0/	8	77	20	31	74	9	20	6/	19	17	57	9/	8/	1	52	25	
-80		9	8	٥	97	/3	7.3	*/	15	90	25	177	18	17	20	//	9	18	6	8	///	32	٥	61	19	3	7	8	77	61	///	9/	. 6	ম	
Block No.	Horizontal	(G)	0/	8	8	74	6	Ó	77	12	12	01	01	0/	S	34	74	8/	//	01	9	8	6	8	77	77	Ś	14	6	77	37/	7	9	17	
Bioc	mm)	3+@	200	10.50	100	430	127	20:5	5/2/2	2:50	105,25	-4-16.5	700.7	12.27	1.3.	35.26	3/6-5-	15.27	461	36-1-	15.50	2365	2-395	500-7-	15.42	40-7-	150.35	-2:425	1.30 -1-	\e.	15/ 25/ 25/	14	23.7	3:60	
	(x 10 <sup>-3</sup> r	•	0		1	0	- 3	٦	- 2	/ -	ر ک	0	/-	\ \ \		カー	51	7-	-2	-/	/-	0	-2	7	/	<u>ل</u> س	-2	7-	/	ۍ ـ	-2	?-		-2	
7.7.6	. !	<b>©</b>	0	0	0	0	0	0	0	0	81 -	-8	- 2	1	/-	٠ ج	5 -	/ -	0	/-	- 2	0	3	7	7.7	1-	//-	-2	- /	/-	-3	/=	- 2	7	
72	Dis placement	0+©	100		386	-8-1985	1015/1	145.24	04.2.20	12.57	13250-	9-20-	14.2887	3000	11.77	135.4	18:36	13.77	4984	14.25		25.92	100-6	1805	14. W	1200	16-46	2.1.255	1900	11.58	1987.51	\$6457	102 201	187	
Measuring Point	Verilcal	<u>0</u>	- 10	-10/-	-23	- 71	-10/-	- 20 -	-11	-2/	7	. 9	-15	_	7/-	-	\$1-		-10	-12 7	-8-	-/0	-10	-18	-12	7/-	-16	-6	-10	-10	//	13	-12	8/-	
) Megsur	Ver	Θ	. 6	12/-	- 15	- 9	-/3	- 9	- 20	-/3	0/-	- /2	-/3	- 2	80	- رج ا	- 15	8	8/-	-13	9 -	- 9	8	-/7	//-	7/-	19/-	<u>ي</u>	ا س	-/2	-10	-17	- 9	-19	
T (3	Jack	ock essure g/cm²)	- 2.56	1	220	2952	378	835	35.25	88.	305	925	245	9675	0.66	10/25	1035	550	107.75	00//	522/	11.45	2,9//	118.5	0/2/	1230	0,57/	127.5	129.72	9261	52.6%	2661	3881	0/3/	
SHEET	Diagonal	Hrizona Jack Stress Pessure (kg/am?) (kg/am?)	00//		1 1	1									1051		1570		1634		1905		17.67	17.97		1865	1896	48.61	8961	. 1	2036	20,70	1012	86/7	
TEST DATA	Jack	ack + 5 essure S (q/cm²) ()	29	,,	"	4		4	,	7		, ,	"	;	,	"						,	¥	Ň	î	"	4	,	· ·	,	*	ı	4	"	
	Varticai.		_ 76	"		"	"	4	, ,	1	"	7	"	٥	,	*	1	,	~	~	,	,	•	,	ì	1	×	ľ		,	,	,		1	
SHEAR	Š		S	21	91	20	762	23	32	36	OH.	*	3	25	25	3,00	7	90	72	9/	2	7.7	202	32	36	93	22	33	55	38	00:7	40	80	/2	
ROCK	<u> </u>	E E																																	

This   Marie   Jack   Octobered   Octobered	SHE	SHEAR TEST DATA	ST DAT	A SHEET	ET (4	_	Measuring Point		70 /	17.4.11	Bloc	Block No.	297	-	85-2	Z	4 ×9/cm²
① ② ② ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○		rrical	Jack	Olagon	i Jack		rilcal	Displac	ement	(x 10-3	шw)	Horizon	ntat Dis	placame		0-3 mm)	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		eri  ca    1 e s s  q/cm <sup>2</sup>	Jack Pressure (kg/cm²)	Horizontal Stress (kg/an?)	Jack Pressure (kg/cm²)	l i		0+0 2	®		3+@	9	9	<b>(2)</b>		®~@	Remarks
1220  1485   -12   -5   -5   -5   -5   -1   -1   -1   -1	18	77	29	2/69	1430	0/1	4	25.20	/	ري.	29-62	6	ø	Ϋ́	l . (	371601	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2	7		2203	23	2/-	ر <del>ب</del>	85.28	\$	_	3.65	14	77/	25		87/91	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3	°	,	22.87		``~	-20	865	/-	/	7-66	9/	18	97		686	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	80		,	2267		- 72	-/2	13.80	\$ -	٠	96-3	12	//	22	18	936681	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3	"	7	23.05		•	8	865	7		3.53	\$	21	12	12	360871	
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	48	,	2	2434			_	125005			3.2.25.5	29	27	35	\ \o	A. 887	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\$2		,	2445				18827		9-	288-4	27	777	23		60050	
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ATA SI	k Dlog	ure Sire n <sup>2</sup> ) (kg/c	29 3200		1, 3291	1 33.37	1 3367	133.87	82.46 1	9978 "	13. 13. 12.	353°	" 25.64	_	_			_		_	-								_	-		-		_
SHEAR TEST DATA SHEET	ical Jack	Vertical Jack   External Jack Stress   Pessure   Stress   Pessure  kg/cm²)   (kg/cm²)   (kg/cm²)   (kg/cm²)	7 7	_		, ,	,	,			1	"	"	_	-	_	_	<u> </u>	_	_	-	-		-	_	_			<u>                                      </u>		_	<u> </u> 		-
HEAR	Vertical	70	28	28	32	36	97	157	87	5.2	32	7:00	70	_	-	_	 		_	<u> </u>				_	-		_			_	_		_	-
ROCK SI	<u> </u>	Time Elu										7	-		-						-						-			-			<u> </u>	1

ROCK SHEAR TEST DATA SHEET (1)

Operatories   Nock Grade	Test Location Geological		DA-1. BS-3			Point	7.5	18.6m		Date	Measured	00	8-11-1988	. 1	Block No.	3 De	N = 6 kgfcm²
2 units, Maz. Oli Persuse 701.7 kg/tm <sup>2</sup> from Diameter 1 1995 cm   6144 cm	भ हू	<b>A</b> 15	777073	2 Dan	농	units	Max. 0	II Pressur		Measure 3 kg/cm	ed by 2 Rom	Diamate	er \$25.3		a		3600
Disposed Jack   Varified   Displacement   (x10 <sup>2</sup> mml)   Horizontal Olsplacement   (x10 <sup>2</sup> mml)   Horizontal Horizontal   (x10 <sup>2</sup> mml)   Horizontal Horizontal   (x10 <sup>2</sup> mml)   Horizontal   (x10 <sup>2</sup> mml)	ě	acity.	202	ž X	11	3	OI Pe	ssure 7	. 11	kg/cm²	Rom Die	ameter	E Sod/	ااع	73		= 16.7
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		riical	Jack	Diagonal	Jack	۸	rileal	Displac	sment	(x10 <sup>-3</sup>	աայ	Harizo	intal Of	splacemen		5 mm }	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<b>5</b> − 3	7ical (cm <sup>2</sup> )	Jack Pressure kg/cm²)	Horizonal Stress (kg/an?)	Jack Pressure (kg/an²)			0+0 2	<b>©</b>		(G+(A))	<u>(</u>	9	Э		Ø®	Remarks
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Z	10-3 mm }	@~@ 4	0.00	0/20	000	80.0	800	81.80	18:1	5/2.	18	300	5.8	25/	28.50	96 50	10	18/12	63/1	13/42	4.782	2. 102	12/2	1,5227	2 24)	25.5	0.0	228	1/200	0,9296	18.3/2	2.334	625.2	13.38
ي- ي	۳	@		0	0	0	0	`	,	3	d	7		3	9		9	7	7		7	'n	0	4	'n	1	9	n	9		- ~		n	۱۲
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Block No.	Horizontal	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	7	0		7	1	0	2	/	0	0	0	2	7
Bloc	mm)	@+@ 5	27.5	18.3	8	8-0	8.0	0.0	8/0	5850	2.8	6-50	6-10	3656	360	15-51	100	311-51	3200	15.74	0.72	12/2	175	31.0	53/50	53% 0	2755	52/0	0.15	0,55	3510		5370	15:50
18.6 m	(x 10°3 r	<b>(b)</b>	) 0	/	0	-	0	0	0	, /	0	/ /	0	,	0	'n			0		O		7			0	0	0	0	0	0	0	0	0
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Į.	Displacement	0+©	0/0	2015.0	5/2/	210	2/2	27.2	55450	35%	275	0,25	3500	3360	27.50	272	21/50	271.5	37.5	150-	120	01/2	010	13.850	5.60	18-5%	15/	0 2	15.5%	754	1.3	15/5	30/-	13.15
Measuring Point	Vertical	(e)	0	6 /	2 /	_		0	Ī .			/ / ~	0		/ 1	0	ا ج آ		/ / -	7 / -	0	-	0	- / -	0	- 2		9	-25	-2	. /~	-/-	-2	7
) Measur	Ver	Θ	0	0	7	0	0	0	/	0	0	7	0	0	~	0	2	0	/	0	0	/ -	0	0	0	7-	) _	9	1 / -	/~	/-	-2	Ø	2
7 (2	Jack	GCK '6s\$ure 9/cm²)	2.25	2.5	6.5	8,75	11.0	13, 25	15.50	17.5	19.75	22.0	34 25	26.5	28.5	30,75	33.0	35.25	375	39.5	4/.25	0 %	50'90	2.8%	2.0.5	52,25	\$5.0	25.5	3.95	5119	63.75	0.99	35.89	10.5
SHEET	Nagenal	rizonta J Tress A kg/cmA (k	0.34	69.0	0.99	1,33	1.67	10.2	-	2,65			3,62		_	_			_	_				<b>V</b>	2,66	8.00	8,34	8.68	9.02	9.33	29%	10.01	18.35	1969
DATA	Jack	nessure S rg/cm <sup>2</sup> ) (	443	~	"	~	. "	*	*	, ,	,,	,	Ş		,	`	,	*	'n	. "	*	,	· ·	"	"	"	"	Š	;	"	1/	,	"	*
SHEAR TEST DATA	er t ical	Vertical Jack Harizania Jack Stress Ressure Stress Ressure Rg/cm²) (kg/cm²) (kg/cm²)	79	· ·		//	ľ	"	"	,	· ·	\ \ \	1	,	*	î	•	,	\$	Ň	,	-	*	*	,	٥	N	"	· ·	7	,	;	V	1
SHEAF	٤	73	0	7	8	12	9/	22	7,7	28	26	36	07	77.77	87	25	95	8	*	Ø	7	91	20	75	28	25	36	3	777	8%	\$2	55	2:00	77
ROCK		<u></u>																																

		- 110 m																																
6 10/cm²		Remarks																						-										
z	10-3 mm)	®~® 4	4.00.2.	53.62	2.8	S. 50.3	3.8 541	35.50	33.609	3.639	8.37.2	5.3 755	5.5	200	45.965	10,065	8 11/45	163,308	6.85.20	903/	145/16/	56.709	42.82	682511	261752	8.8 228	9.237	3/42/01	8782813	28.3	18,3076	4450	(345.6)	18.8
2	×	@	0	ι ,	'n	_		7	\	2	0/	را		Ŋ	6	8	/2	18/	8	9	/ 9/		101	6	67	77	3	1,5	1	15	. 02	20	25	20
, BS- 3	Displacement	©	0	2	0	,	٥	,	0	0	٤/	Ş	2	1,3	0	20	ţ	20	ځ	1 5/	20	7	2/	6	77	Ŷ	9/	7	15/	/8	7.2	20	7	79/
1-40	i	9	₽	^	7	3	4	2	Ϋ́	ى	.2	3	ئ	<i>ħ/</i>	ζ	9	6	91	77	\$1	0/	٥	7	1/	6	7	رع	9	19	75	15	\$1	3	9/
Block No.	Horizontal	ම	( / )	,	7	٠	Ż	7	7	Ś	8	8	6	7	7	80	9	80	2	6	/2	73	8	14/	5.5	11	77	77	8	29	25	7.7	28	23
Bloc	lm)	<u>2</u> <u>0</u> +@	2516	1320	25.6	0.5t	771.0	275.8	2.55	18% 0	25/0	\$32.0	2.755	15.0	23/0	275%	O TEST	53.0	5516	5.5.0	2755	150	5310	0150	2,5,0	3310	2.52.0	15,2	5-32-0	3417	245	1233	13.5/0/	17/4/21
12 g	(x 10"3 mm)	<b>⊕</b>	0	0	0	0		0		0		0	0		-			-	0	├	-	<del> </del>			0	0	0	0	H	0	0	- 0	0	7
7.0 18.6		(O)	0	0	0	0	0	0	0	0	d	0	0	0	0	9	0	0	9	0	0	0	0	0	0	0	0	9	0	- 2	0	- 2	0	-/6
	Displacement	0+©	25.33	35	\$ .00	5-13	25.	1/2	25.7	17.		25.5	150	35.455	25.54	20-8-	45.005	478-9	38.55	10/2/	24.75	121/28-	3×12/21	1.5.00	27463	197	201.01	18.76	19885	172.4	125.24	63.237	18.5. E.	25.25
Measuring Point	Vertical	<u>)</u>	- 2	-3 -	\$- \$/		7	3.	-5	-2 -2	5/ 5/	-8-5	7 7	<u>-</u> ال	3- S-	2/2	-2 -9	-18 -16	\$- \$-	-12 -	18/-	5	-15 -	-8-7	-/7	-5 2	-15-	2//-	101-	18/-	13	-14 -	100	-20 -2
Measur	Ver	Θ	- 2	0	٠,	15	3	2 -	ا ع	6	- 7	ا ي	7-	5	-/2	9-	- 7	5/-	9~	5/-	-91	11/-	-91	- 2	22-	-/3	2 ک	-/7	2/2	2/-	72-	97-	27	-25
7 (3	Jack	sck sssure s/cm²)	72.5	74,75	77.0	79.35	5 ' 2	2,53	25.75	0.00	50.55	5.5	345	26 25	69,0	757/0/	103.5	105,5	25.201	0'011	112.25	1/4.5	116,5	500	0177	133,0	0,250	27.€	25/201	133.0	134.35	5 787	2.437	0/1/
SHEE	Diagonal	Horizona Jack Stress Pressure (kg/omP)(kg/omP)	11:00			1		12.66			:	14,03		16.67	_		15.70		16.34 /	16.68		1232							19.66	1007	10,36	24 70		\$ 77
DATA	ack D	ock to the stance of the stanc	163	, ,	1	,	,	7	7.	,	7	7 7	,	,	,	7	,	"	7 77	7	1 "	,	"	,	1, 1,	,	7	7	,	,	,	7,	-	7
(TEST	Vertical Jack	irtical Julius Iress Pr g/cm²)(k	<b>~</b> 0	"	,		"				,			,	100	7	"		7	,	,	,	· ·	- 1		ż	ï		×.	,		,		
SHEAR TEST DATA SHEET	1	Elapsed Stress (Pessure 049/cm²)(kg/cm²)	2	1.2	9/	20	ンス	28	25	3,5	070	47	83	52	33	3.00	3	8	/2/	16.	20	24	28	32	75	40	77	877	2.5	55	90.7	ń	8	77
ROCK		Tlm•															-																	

kg/cm²		2						1																										7
6 kg		Remorks			-																							1 70						
×.	10-3mm}	5-6	3000	28,000	20 ports	St. 3.469	49500	20802	225/2	8345 72	3985	18.528.53	2/52/2	185 841	23.86.	218,659	12.5549	2137062	Sur!	25,095	25/2/2	15.8,7908	3018 02	25.56.53	108801	28.80	10/2/00	12999	18.500	29,587	19885	123,0013	25,0263	×8/.
B.5-3	ž)	@	25	22	26			19	26	3 ફ	/8	38	07	8/	28	25	20	25	0,	દ	20	20	33		22	88	62	30	30	3/8	24	8/	2	,
-/. B	Displacement	Ø	24	8/	/2	2.3	74	16	20	6/	2/	0/	77	\$1	9/	61	13	23	ħ	750	22	/3	0/	20	3)	23	7.7	0	10	71	9/	7	8/	Ó
40	1	9	7.7	カノ	51			15	2,5	22	17	71	15	//	23	//	\$	27	///	01	29	20	01	30	`	40	70	7	2	1,2	8	457	2/	``
Block No.	Horizontal	ଭ	31	12	27	52	43	33	9/	ن د	77	9/	23	17	25	22	20	01	70	18	31	01	27	2ئ	29	20	32	150	<b>2</b> €	61	18	1/	2/	1717
916	10-3 mm)	3+0	4.00	1/2/2	-2/	57561	281-3-	2,5%	0/	25032	265-3-	524-5	4.465	29.55	13.	303-7	\$89-6-	32-51-	26-11-	376.802	76-3:5-	35-95.3	36-51	36-6	-2705	-6.5/1/5	25.57	1-144	\$200 E	10,555	-6-15/5	4-16.55	10 mil	14/4
186m	(x 10 <sup>-3</sup>	<b>@</b>	/	2 -	3 1	0/-	- 12	ر ب	J)	1 <sub>0</sub> 0	-10	ري ا	لى 1	00	- 2	ر س	7	5-	10	-/2	-10	- 7	ا ا	0	00	6 -	4	- 9		5/-	- 2	ا ئ	0/-	C
70.18	ement	60	0	0	0	-17	0	0	-/7	0	0	1	າງ }	0/-	E	- 2	- 2	0	4/-	6-	/ -	0	0	0	-6	カー	-42	-5-	0	\$-	- S-	5-	-/0/-	Ċ
ŀ	Displacement	0+0 2	3/8/	366-25	225 326,5	1887	\$ 407.5	29.54.5	100	\$162.00	4363 ZZ-	3815 Hz	685.00	250	945.5%	78-598	18-616	×65-8%	1.50%	-30.68/	100-05-	12.760	135	18 5.25.	425.548	36.56	25.80.75	53.85	128645	-20.28.4.5	105.00	S. 20. 20. 20.	18:5%	-20.5
ıring Point	Varileal	0	-/8	-/2	- 18			- 22	8/1	-20	-20		-1.9	•	_		6/-			- 27	-/2		/2-	07-	7/-	8/-	-18	22~	-/3	\$/-	5/-	-2	3/-	ę
y) Maasuring	a V	Θ	-18	-25	-27	55-	-30	-27	-23	-20	77 -	75-	-22	-25	8/1	-/7	-17	- 20	-20	56-	-23		-23	-12	0/-	4£-	- 28	87-	-25	25-	02-	02-	77-	,
_	Jack	Jack Tassure rg/cm²)	123.0	124,25	3 201	5671	0.55	0.05%	0'351	0.857	1605	5.291	165.0	0/9/	0.691	01/1	7,841	0.967	178.0	130.0	0,081	184.5	1870	189.0	0/6/	0.861	5.56	1980	3000	202,0		\$ 90€	209.0	0 11-
SHEET	Diagonal	Stress (kg/am²)	17,69	22.03	16.66	22,67	23,05	23.36	23,66	23.96	3636	59'34"	76,24	26.33	25.55	25.5	18,34	36.69	27,00	2730	2760	27,98	38.95	28.66	2897	1667	3966	30,03	30,32	3966	30,08	31,32	0/10	3
TEST DATA	Jock	Jack Fessure kg/cm²)	43		,	"		<i>''</i>		,,	7	, ,	"	ï	```	,		`	,	*	0.0	1	4	" "	,	-7/	1	11	· ·	1	4	*	. 0	ŀ
R TES	Versical	Stress (X	9	"	ï	"	,,	,		4	7,	1	*	*	3	×	1	×	,		0	,	,	7	×	,		1	× ·	, ,		``	7	
SHEAR			9/	20	44	82	32	90	03	7577	87	52	35	\$200	7	500	2/	9/	20	24	87	75	350	3	55	35	52	95	8	3	જ	77	76	
ROCK		T B.																																

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6 kg/cm²		Remarks																																
ž	10-3 mm)	©~@ 4	27078	15.50		28-11436	15/150	280,178	17.8.950	~\~	12.00	28/2/62	10,800	22,3091	16.55.05.5	22 13475	426/204	548,44	10/2	16.50	57.65.4	12882	123/201	75,725	74.20%	18:223	13.75	19422	\$6.3.09.	1,2377	120	925.7	137	3/
B5-3	×	@	3.3	20	25	40	0	55	3.2	38	30	45	5	37	6/	32	62	801	011	145	100	180	155	120	077	00	077	28	23	103	80	श्र	13	86
	Displacement	(e)	22	77	2.2	//	01	7	13	9/	6	7	//	جر	53	87	11	14	7	20	مه	135	143	7	77	ډي	7	36	27	35	2	35	4	47
-Ha	ntal Dis	9	2/	7	81	17	4	9/	1,4	77	7	ۍ	8	7	ۍ	7	32	7	79	8	3	37	25	3	72	12.	3	25	3/	177	7	28	R	185
Block No.	Harizontal	ග	75	26	5/	48	177	34	7.5	:39	36	17	34	18	29	1/5	97	90	136	133	107	. 163	183	130	101	13.9	601	220	22	97	60,	77	ğ	12
Blo	mm)	3+0	16/2/	1.99	1200	3170	12.26	1627	842//-	132.26	1027	18301	362.5	2.303	19:31/2	1.31.5	13.45	120	115-11	-68.485	1000	128.	4000	25.63	\S 7\7	-28.877	169.50	15/125	1.25	27.72		1/2005	12/2	15.00
8.6 M	(x 10'3 r	•	-13	37	-5	-10	-10	-10	-7	9/-	-//	-11	-43	-9	9/-	-73	1/5-	:4/[:	- 25		3.8	-72	901-	-44	-30	-43	-77	177	1/5	- 53	36.	-52	3/2	-40
7D,18.6M		<b>®</b>	- 6	-9	9-	///-	-72	-/7	*-	0/-	-9	-9	-/7	-5	-2	6	-/9	-26	-70	-16	-9	-د	/-	14	7/-	-\$-	- 91	-7	-/3	-/-	7	97-	7	-777
2	Displacement	0+©	-26.5%	10/0/	1001	1001	3/2/	100	1201	100/	15 E	000	1000		180	15.00	05.4	33,50	12/2	1000		53.7469	1000	\$ (S)	100 K	27/13	T.	2000 F	1.3.700	in the second	1000	13/	11/2	W.
Maasuring Polns	Vertical	<u>(</u>	7=-	<u>.</u> م	_///-	. ///-	. ] ///-	777-	-91	0/-	3/-	-14	-101-	_	-176-	-10	-14	7.0	<i>10-</i>	-74	-10/-	Ī	. Y	-24	3/-	~	n	-72	14-	36	8/-	97	\$7-	177
~ .1	Ver	Θ	-32	-77	-75	-45	-13	77-	-19	22	-22	8/-	-23	-70	-20	27.	-3/	47	33	-7%	3	18-	-27	0)-	0/-	~^-	-42	-30	130	-43	-37	\$8:-	-20	-37
.T (ऽ	Jack	ock essure 9/cm²}	2/3,0	215.0	217.0	2,30,0	222.0	220.0	226.0	228.5	231,0	233.0	235.0	237.0	239.5	241.0	244,0	246.0	268.0	Sasc	253.0	2,555	257.0	0.655	26/5	264,0	266,0	268.0	370.0	172.6	275,0	211.0	279.0	\$1.75
SHEE	Diogonal	-brizontal Jack Stress Pressure (kg/cm?)(kg/cm²)	32.30					1				36.25	_ [	_	. 1								26 38	_					NO 25	_	_		<del>,</del>	
DATA	Jack	Vertical Jack   Stress Pessure   Stress   Sessure   Sess	43			, ,	77	,	,	,	,	,	,	"	, ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	"	"	"	"	7 7	,	, ,	//////	//-	, "	7	"	,	"	,	"	*	"
7 TES	Vertical	ertical tress P (9/cm²)((	9	,	"	"	"	"	,	"	"	"	î	"	,,	"	-	"	è		"	"	,	. "	"	Ü	"	"	Ÿ	2	77	7	v.	*
ROCK SHEAR TEST DATA SHEET	V		7.7	28	32	36	00	70	83	25	56	2:00	<b> </b>	8	2/	9/	20	762	28	32	) 9e	B	ħħ	877	(25)	8.8	8,8	*	00	12/	9/	20	24	82
ROCK		Tim.																																

Mg/cm²		**																																
×		Remarks					-				:																							
Z	10-3 mm)	@-@ 4	921/2	7827969	20132	29627.35	11,296	12.00 J	1,80%	135/18	1036.63	12 A 12 A	14.5000	18/18/1	12/2	10 Sue2	1200	12000	188	25080	8/5/00/	645,7449	72,5267	863723	7725/27	208.7	"Zaro	154,007	1675/16	1528 4488	20/8/9/8	17/25/197	25,27	1000
BS-3	<u>*</u>	@	/47	60	80	201	181	76	80	42	Ş	15	$\mathfrak{L}$	23	25	97	3	36	25	3,	22	45	22	301	00	49	125	20)	412	101	165	21/	417	196
	Displacement	0	14.8	101	33	39	34	2%	001	43	29	Ş	99	29	3/	35	ۍ ئ	90	32	35	6/	65	22	52	19	72	24	110	153	161	235	238	235	316
JA.		@	25	20	20	17	36	20	20	28	ধ্য	33	66	23	ζ <sub>2</sub>	32	177	29	07	93	3-5	69	29	73	55	96	78	98	163	7.96	162	281	263	528
Block No.	Horizanta	<b></b>	139	701	78	78	54	158	ج _	22	1	45	52	56	کې	53	6/	43	81	25	113	29	127	126	116	135	161	5615	132	621	196	34/	7/0	613
	ivn)	3+@	588	5606	-32.5 Wes	Sr. 29.28	36,076	34,060	-26.5.085	101/20	COLL	25.1115	24311.01-	×61.2.2	-81142	5511.71	96511-7	3:1150	14.5 mm	-13.11875	2/2/2005	-3812 V	7.25.5.g/-	185,282	12:301	-17,410	258/25	1355/55	47,445	SOME	-32/54	125/67	21.2.12	1983
18.6 m	(x 10'3 mm)	<b>⊙</b>	- 70	- 28	-39.	ئىنى ـ	75-		-2/	18-	0	6 -	ري ا	20	סגו	-10	- 5-	<i>3</i> -	-/2	//-	-17	-38-	8/-	/7-	-22	-/2	£ 50 €	-43.	25-	971-	-18	25/7	86-	-126
70.1	ement	@	3	-75	26	25	- 42	-33	-32	0 /-	0	-6	-/2	//-	- 8	2/-	3	7.7	-/2	-12	-/2	-42	72-	8/-	9/-	12-	150	777 -	-52	85-	- 46	70/-	-35	78/-
nt Di	Displacement	0+©	61856	25,964	1350 E	12.05.5	0661-91	35.00	P. to It	25.2095	1,4,110,51	24.21.5	14.2149	30 200	1875	23.22.67	222.00	AND A	12569	-2/23/0	30.23.00	3/25.29/2	37	26 EV 17.	21.25.199	北京	6-2607	25/2/2	SWC5-4-	12.88.28	7.187	10.00	12/18	Sens !
Measuring Point	Vartical	<u>}</u>	-25	-/5/-	-18 F	-22	.30	. 33	1-36-	-20	9-	3 05	-7	-23	12	-26	-22	-/3	-32	-/2	-25	-48	-42	/15-	135-	64-	-38	وي	* -	-82	18-	-/5/	X//-	79/-
) Measu	Val	Θ	- 46	-35	- 27	-32	-43	-36	- 60	-30	- 22	-13	-21	~/~	3/-	250-	-27	-15	-3/	25-	-35	75-	-38	16-	- 28	15-	-66	-88	-92	16-	-88	56/-	-125	- 352
£Τ (δ	Jack	ack ressure .g/cm²l	283.5	285.5	288.0	290.0	292.25	2945	2962	>99.0	301.0	34,545	305.5	3025	310.0	312.0	Sc. 1/5	2,9/5	3/8/5	31.0	0.808	235,208	2 \ 2	€, 92€	32.0	334,0	35,86.	2385	340,5	342,25	3450	34725	34950	3415
SHEET	Dlagonai Jack	Horizona Jack Siress Pressure (kg/cmP)(kg/cm²)	43.00							\$50.0%	4.6c	46.3%	4633		47.02 310.0	4732			12:57	8988	66'87	2633	49.67		30,00	50.66			59/5	86/2	\$2,32	5267	10:53	१५.५५
r data	Jack	Jock Pessure (4 kg/cm²)				"	,	"			ï	*	4	"	7	,	1	,	"		,	1	1		1	,	,,	"	1	1	"	,		*
R TEST	Vertical	/er11col 	8		"	7.7	,,	"	~ ~	ť	î	v	"	,	2	"	"	"	"	4	*		4	"	,	,	1	4		,	1/2	"	7	7
SHEAR	2	Expsect Stress (Pressure by/cm²)(kg/cm²)	32	350	97	757	187	52	2-6	9:00	7	8	12	76	20	702	28	20	90	3	44	877	25	z	00'01	4	80	12/	9/	20	242	28	32	96
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ROCK SHEAR TEST DATA SHEET (1)

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kg f <sub>crn</sub> 2		3600 cm²																														
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		Ram Diameter #2535 cm m Diameter #1705 cm	Hori	9	0	0	0	0	9	7	0	0	0					0														
easure	100	. 2	(m	<u>0+@</u>	0	0	0	0	9	0	00	37.37	15.31	15.45	250	34 20	500		540													
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asurin	Rock G	V 5	Sack	Stack Pressure (kg/on?																												
<u>چ</u> این	<u>"</u>	200 mn x	Diagonal	orimonal tress kg/an-P		: 															_											
Test Location DA-/ BS-4 Measuring	Geological Carlon Caphielite	200 ton x		Elapsed Stress Pressure Stress Pressure (kg/cm²) (kg/cm²) (kg/cm²) (kg/cm²)	0	2	7,7	74	q	0	7/	27	29	\ <del>\</del> \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	63	\$	27	"	,				 			-						
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음	) noi		Ver	Ser.		2	7	-	<u>~</u>	0	28	Ċ	8	3	77	3	25	70	8	-	_	_	_	-	<u> </u> 	_	-	<u> </u>	-	_	-	
12000	sificat sificat	Vertical Jack Capacity Diagonal Jack Capacity	1 20	Elaps	0	0	_	8	9/	20	2	32	35	7	*	3	149	3.5	;		 	-	_			_	-	_	-		_	
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A to/cm²		Remarks																																
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1.85-4	Displacament	(£)	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	9	~	2	'n	7	~	7	4	3	3	3	34	7	7	7	7
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0	10°3 mm)	@    	0	0	_}	-	, 0	20	0	5 0	0 / -	9/	6 /-	9/	9/-	0	-1.19	2 -6	2	0 / -	5	7	10	7 2 1	2	0	0	0	0	0	0	9	0	0
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7	Displacement		12.5	53	225	12/	\ <u>\</u>	15.57	54	87	/41	7.6%	/3	212	72	12/2		13/	\ <del>\</del> *	\$\frac{1}{2}	17.	(#) (*)	<u> </u>	<u> </u>	<b> </b>	1/7	1/3	201 201 201	/3/	/%	72	5/2	7/	72
suring Point		) (D+@	0	0	9	9	9	3	2 6	50 1	2.1/	0 02.	3/5	3		0	1 0.5	201	7	0	0	100	0	0	1	0	0	0	9	0	0	200	0 -95/4	200
Measuring	Vertica	(0)	0	0	9	0	0	8	2	0.	9	7	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	/	-/-	0	2	7	7	1
(Z)	.×t	Θ ε <sub>δ</sub>	2		10	3	0	کړ	jæ	\$	19.25	O.	ر ا	\$	S	<u>12</u>	0	25	47	Ş	72	0777	46,25	283	505	25.25	9.	25	595	6/,5	43.25	- 099	6825	45
SHEET	nal Jac	Horizonia Jack Stress Pressure (kg/an9(kg/an2)	2.25	_,				3.25	15.50	1	7	4 22,0	8 2425	2 26.5		5000 3			2.25		_			{	-	_ 1	34 S.S.	1						59 70.5
	Diago	Horizon Stres (Kg/an	0.34	0,68	0.99	1,83	1,67	2.0	2 35	265	3.00	3,34	3.68	4.02	4.32	466	5,00	35-35	295	5.29	6 33	6.67	20,	236	266	300	3,3%	888	1902	933	9.67	001	10.35	10.69
ST DA	Jack	Jock Pressur (kg/cm <sup>2</sup>	52		, ,	4	7	7	1	"		7	3	0	,	. "	,		*	,		ÿ	"	**	*	7	, "	"	4	"	"	4	*	_
SHEAR TEST DATA	Versical	Versical Jack   Stress Pressure (Stress) (Kg/cm²) (	8	î	ï	7	2	ï	"	1	ï	,	7	,,	\alpha		"		*	1,			1	-3		2	7	,		"	,,	, 1000 m		
	Time		0	7	Ø	/2	9/	22	24	28	32	35	3	77	87	52	35	00:1	7	8	/2	78	20	×	22	20	*8	0%	77	62	525	<i>7-5</i>	2:00	4
ROCK		Tim.																																

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ROCK SHEAR TEST DATA SHEET (1)

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18 - 11 - 1988 Block No.		25 SE	Horizontal Displacement	9	0	0	0	0	0	9	0	0	-																			
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2 kg/cm²		Remarks																																
Z.	(x 10.3 mm)	@ @ 4	10	1/0	2 /	6 /	1.8 4.8	1.9.6.6	1.56	1.8 20	1.3.2.1	60121	1,8,27	2,4,2	23/65	0612	1203	13.250	28249	67.57	2,8,97	3.327	2.347	280/2	E 25.3	138/2/	625/2	4.3.57.2	5.56.5	48.67.5	12.26	6,38/2		828
8.5-1	- 1	@	0	0	ກ	'n	Ŋ	7	7		1	1	4	7	*	9	`	7	80	8	7	2	1	2	7	5	7	'n	m	×	90	8	0	9
- 41	Displacement	Ð	0	0	0	0	0	0	0	0	0	9	0	0	9	0	0	9	0	9	7	2	7)	'n	ک	8	9	9	9	S	9	*	7	7
DA-2		9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	જ	2	'n	ſλ	^	۰٥	Ŋ	9	. 6	10	Ŋ	n	~
Block No.	Horizantal	<b>®</b>	0	0	,	1	7	3	2	,	7	む	'n	2	₹2	ى	Λŋ	, Ç	m	~	4	Ł)	2	3)	'n	Ŋ	\$	ۍ	7	5	9	8	6	8
Bloc	mm)	3+9	245	1/2	25.20	250	200	2 0	7	57-50	130	250.5	0 50-	20.50	1500	20.00	1.30	150	37-50	15.3	-2-F	4.23	3-10	50.50	14.50	511-5%	2.425	221.0	1750	35.75	1.75	1-155	1,5,1	500
8 m	(x 10°3 n	<b>@</b>	0			· ·		,	7	2	9	0	1	0	7	2	2	2	2	2	0	i	, !		2	1	7	_ / _			/-	0	0	~
70 10.		@	O	٦ ک	٠ ج	ا ب	7 -	/-	/ _	ا ئ	/-	\ \ -	7 -	/ -	- 2	7-	٠ ج	7	٠,	٦٠	<b>5-</b>	۶-	-7	2 -	ا ئ	7-	-2	/ ~	-2	12	£ _	7-	~	ا بى
	Displacement	0+©	3920	2.63	183	DE-37	205.20	18	1300	400.0	05.50	9/8	08-0	-1.29	58350-	1295	6250	1.26	245.245	12,2	55.20	1/22	3/12/00	1.205	92,00	-1.70	31-1	1.72	11/1-	01.9-	2,958-	-254	9.3	13.30
Measuring Point	Vartical	© (§	0	-/ 2	- / / /	7 7-	- 3 B	-	5 2-	5 /-	_/ [_	/	0	٦.	[ /-	7-12-	7-	-2-	-3	-2		-2	-1/-	~ 2	-/ 1-	- 2	-2-	-2-	-2	-10	7-	-3	.19~	-2
Measur	Var	Θ		m	3	7	2	2	2	7	0	17	0	0	0	0	0	0	0	0	0	0	0	٥		0		٥	0	1 2	٦.	- 2	- 2	- 3
T (2	Jack	ossure ossure 3/cm²)	2,25	5,4	5.5	3,75	01/	3.25	25'5'	23.50	1975	220	24.25	592	28.5	30,00	9.66	35.25	328	395	4/75	6.22	22.34	2.8.5	500	5225	35.0	5725	3,69	15/5	375	099	1289	20.5
SHEET	lagonal	risonal Control (c) (arrival) (2)	0.34	<b></b>				7	45			3.3%		_	$\vdash$	<b>-</b>	5.00	-	ш		┖~~	667	10%	7.36	_			898	30.6	25.0	9.67	10.01	2001	10,69
TEST DATA	Jack	SSUCE S	*		, 0		"	1	"	"	1	"	1	"	,	,"	"	*	1/1	11	*	1		"	1	`	*	ů	ì	*		*	"	"
	rrical	Varikaj Jack Harizanal Jack Stress Pressure Stress Pressure Rg/cm²) (kg/cm²) (kg/cm²)	7	*	7	1	"	<i>"</i> .	//	/	"	1	//	- 1	*	~		*	~	1	-	,	,	~	11				۵	*	*	*	,	,
SHEAR	Ž	~	0	7	80	/3	9/	20	74	28	32	38	077	717	83	25	95	8	77	8	1/2	191	20	77	28	32	3%	R	777	33	23	25	2:8	4
ROCK	<del></del>	Time.										-																						

				-												
i ii	Vertical Jack	Jack	Diagonal Jach	Jack	*	Vertical	Olsplacement	1.7	(x 10 <sup>-3</sup>	mm)	Hori zontal	•	Displacement	Š	10-3 mm )	
nps dr	Expsed Stress (Pessure   bq/cm²)(kg/cm²)	Jack Pressure (100/cm²)	Horizontal Jack Stress Pressure (kg/cmP)(kg/cmP)	Jack Yessure Iq/cm?	Θ	@	0+0 2	<b>©</b>	⊕	3+0	9	9	(e)	(0)	@ <u>~</u> @	Remarks
∞	2	7/	077	72.5	3	- 3	175	-2	0	1.85	45	2	Į,	າ	\$ 19.8	
/2		7	11.3%	7475	2-5	- 9	278	-2	0	7-19.5	9	8	7	4	4.000.	
2/	: :	7	8977	220	-2	-/0	47.50	- بد	0	25.22	/2	16	1.8	13	19.8.39	
20	1	7	12.02	2825	ار.	8/-	18.2%	-2	0	58-38-	/2	2.6	55		298,467	
7.7	,	ľ	12.36	81.5	9-	-27	15.67	-9	0	01-34-	20	/3	0/	20	5491851	
28	,		7 66	235	-2	-23	1825	9-	2 -	45-36	15	25	00	30	35 1835	
32	,	70	10.61	8575	-9	- 28	88-5-KE	- 20		19.49.5	72	28	24	12	82/2/2	
98	1	,,	28.87	88.	-27	00-	(5) (1) (1)	-21	2 -	23-31/1-	17	2.2	38	24	18:2	
3	4	7	1369	3006	8/-	-42	-30,000	12-	2	5/25/1	38	2.5	2.3	26		
77			140	925	-35-	-07	16.27	165-	2 -	86505	0%	38	22	91	2 303	
48	,,	"	18.33	346	-19	- 38	10.5	-3/	_ 2	2411.20	2/	45	5.2	248	#.45 W.F	
52	1	7	69 77	5096	27	-25	-25-55F	- 22	- 5	13.5.18	2.5	25	7.7	70	26.82	
\$5	7	7	15.01	990	-15	-38	-25.25F	2/-	213	13.02.2	5	36	28	74	26.3 401.3	
\$300	, ,	1	15.36	10/2	- 36	-40	38 2595	-29	-20	1 39-3-32-	25	67	36	ڊ-ئ	108 442	
4		77		1035	-43	3	を変	18-	0/-	588500	2.5	\$7	36	70	1962 750	
٥٥	7	7	00 77	5300	8/-	- 45	N.W.	- 59	3/-	22.25.5	06	42	3	55	16035701	
21	"	7	16.34	10775	-36	-37	1000	18-	15	550000	50	63	ふな	4	16.55 A	
9/	1	1	16.68	000	75-	85-	3/	-23	-32	162.562	محی	18	32	25	31.3 21.5.2	
20	7	77	100	12.51	777	-38	2.00	-25-	-24	25.655	9/	29	77	77	153	
24	"	4		1.25	-49	-50	12.53	176-	16-	1.31.5.75	3,5	50	75	60	St. 900	
28	,,		12.67	97	36-	-65		777	677-	12/20	02	09	53	78	23276	
9	7			8	59-	5//-	1200	- 3p	£ 43	1 444	39	110	22	87	1358	
36	Ý	"	18.35	121	5	-195	1000	£ .	· 50	13.5%	24	20	7/0	93	1,056.57	
3	,	7	1885	3	83-	-105	ジを	20-	1/0-	18. 25.	63	80	52	25	1.7.64 1.7.64 1.7.64	
44	*	77	28:92	957	-5/	100		53	35-	12	22	0//	22	9.8	1/20/2	
48	7	7	28.81	1275	-77	65/-	1202/	-65	-50	39.65	101	121	11.2	86	1837	
\$2	7		19.68	3651	- 28	-94	14/11/8	-3/	ħ2 -	-22.5 in	69	85	150	67	15.77 18.77 18.77	
8			20.02	1320	-40	-m	18 F. 18 F.	/2-	-33	22.661	50	カタ	49	50	5000	
\$:8	7 6	, ,	2036	7,7	- 66	07/-	120	55	-42	13/2/2	100	90	200	33	87,3968	
4	"		40,02	977	-103	-185	多	-82	78-	11/2	03/	20	163	155	102.25. 25.35.	
00	1	2	2401	827	-163	E	100	-262	-374	37.75	330	436	447	140	36.65	
			٥		0 4	1			•	1			,			

ROCK SHEAR TEST DATA SHEET (1)

Test	Test Location		€A-2,85-2		Measuring	Polnt	H	TD. 12.0M	2111	Date	Date Measured	11:61	-	8861	Block No.		N = 4 KG	k01/cm2
0000	Geological Classification	-	articlite	11	Rock Gr	Grade				Measured	d by		. [	ļ	( <u>(2</u> 2)			
Vertic	Vertical Jack	Capacity	Y 20	200 mm x	/ ×	units,		Max, Oil Pressura		396 3 kg/cm2		Rom Diameter #25235cm	r 225.2	1	7		A = 3600	, cm2
Diagon	Diagonal Jack	Capacity 200 ton x	200	ton x	2 units		Max, Oil Pressure	ssure 201	0	kg/cm <sup>2</sup>	Ram Dic	Rom Diometer \$1945cm	1/945 cm		\$		8 . 16.7	۰۱
	Ē	Vertical	Jack	Diagona	Jack	۸	Vertical	Displacement	ement	(x10-3	mm)	Horizo	ntal Ol	Horizontal Displacement		(x 10-3 mm)		
T E	Elapsed	Elapsed Stress Pressure Stress Pressure (**XXV cm²) (kg/cm²) (kg/cm²) (kg/cm²)	Jack Pressure (kg/cm²)	Stress (kg/ant)	Sock Pressure (kg/an?)	Θ	@	0+0	@	•	@+@	9	9	<b>(</b>	(9)	Ø~@	Remarks	
	0	`	7			0	0	0	0	0	0	0	0	0	0	0		
	76	2	7/			2	7	2 2	1		20.50	0	0	0	0	0		
	80	2	7/4			0	0	0/2	7	0	0.5 ,	0	0	0	0	0/		
	16	0	0			-	7 -	1/2	/ -		1050	0	9	9	0	0/		
	20	0	0			0	/	2.03.0	0	0	0-6,5	0	0	0	0	0		
	28	7	7/		-	7	2	12/2	7	7-	50.0	0	0	0	0	0		
	0,2	~	2/			0	2	1	0		20.0	0	0	ひり	9	17.74		
	36	8	29			0	2	3/	0		2.0.2	0	۶-	7 -	0	1/2		
	40	75	29			0	2	13/	0		2.00	0	7-	7-	0	2-10		
	24	<i>&gt;</i>	29			0	2	2	0	_	2.0.2	0	0	0		0.0		
	45		29			0	0	2-0	0		0.05	0	0	0	0	0 2/0		
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2 kg/cm²		Remarks																		1														
N: 4												14	6	7					. 45		22	1201	34	2	4.	~	1.7	1000	136		· <u>S.</u>	5	145.1	7
	1 x 10-3 mm	@@ 	0/	01-10	0/2	07.0	38.50	10.50	1.25	6:3-80	100	3.0.4.	45.49	12/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/	25.0	\$ 2/1	7.24	100	125.65	1/8	13.37	138	163,6/4	120,000	130	10/	3/	187	300	12/2	100,000	364	300	700
. 2	nt {x }	@	9	0	0	0	0	0	0	0	9	0	0	0	'n	þ	3	Ŋ	01	7	V	8	73	0	7	200	25	50	80	62	22	020	34	77
2,85	Displacement	Θ	8	0	0	0	0	9	7	/	9	7	7	8	7	9	12	(3	/6	18	20	22	30	36	38	27	23	çs	82	82	18	22	29	88
DA-2		9	0	Ø	0	0	~	2	٨	2	6	7	8	8	8	8	7	7	20	か	20	20	25	59	40	40	8	55	59	9	3,5	65	90	90
Block No.	Horizental	ၜ	0	0	0	0	0	0	0	0	0	0	n	45	/ /		5	5	12	5/3	7	8	ک	7	/3	23	77	10	- 2	55	46	28	5.2	48
Bloc	(w)	)+ <u>(</u>	20.5		200	3.00	20.00	2.0.5	1500	200	200	20.0	200	0.05	1.5.7	-2-3	4-4	424	2-27	25.26	2.95	71.72	385	127	27.8	13:25	27077	1356	70.5.E.F.	1350	12/109	\$\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\f	1337	15/5/2
	(x 10 <sup>-3</sup> mm)	(a)	9	0			0	d	0	0	0		010	0	- /  -	-2 -	-//-	-//-	- 2 [	-//-	-2-	-35	14-	77	ъ ъ	-2	12	18/-	-12	-/5		-/4/-	-/3	-35
72/2.0	1 1	 	0	0	0	0	9	0	0	0	0	0	0	0	- 2	-2	7-	7-	y.l	0	-2	2	5	- 7	7	90	2	-21	6-	-/2	-75	-/3	- 9	9/-
	Displacement	0+©	10	9	9	9	9	10	0	0	M	ø	\ <u>\</u>	15.	2,5	150	4.35	282	67-58	25.55	465	200-32	1939	18-77-	1000	19.5.28	7/6	-23,88	15.3	12.50 E	27.5/18	18.30	538.520	7.2.
Polnt			9	9	0	0 0	0	9	0	0 0		0	-/ 12	21-15	0 2	2- 2-	7 /-	-2-5	8 8	60/	-2 -825	-9 3	9/- 15/-	5 75	25 35	12 7	<u>ジ</u>	-22-	54-17-	33.5		-40	-20 3	
Measuring Point	Vertical	<u>@</u>	0	0	0	0	0	0	0	0	0	0	17	7 -	. 2			. 6.	-11	-///-	-/0/-		- 18/-	20	28	-27	-43	-24	- 65-				-44-	\$3
(2)	*	<u>€</u> ₹	-\$-		1	ن <del>د</del> ا	٥	13.25	8	3	32.61	٥.	2425	ارا	285	30,08	0.	3558							, 1			I.			J.	l i	5	42
SHEET	nol Jack	Passa Porter	2,25									4 220	\$ 24	2 26		-						7 44.0				1		`					1 7	1 1
A SH	Diogonal	Sires: (kg/cm	46,0	999	0,99	1,03	297	201	S* 2	2,65	0.00	3,0%	3.68	4.02	432	99'7	200	5,35	5,69	5.39	6.3	6.67	2.0,	2,36	2,66	800	8.3%	898	9.6	8,33	6.67	1001	1835	6900
T DA	Jack	Jock Pressure (try/cm <sup>2</sup>	29	1	77	ľ	×	"		*	"	4	4	1	*	1/	*	`	,	*		*		0	*	4	"	*	*		~	*	· v	·
R 1ES	Verrical	Vertical Jack Extantal Jock Stress Passure Majent (1972) (1972) (1973) (1973) (1973) (1973)	77	*	j)	"	,	4	*	*	×	"	u		*	;	*	1		*		"	*	*		٥	· ·	٥				L		*
SHEAR TEST DATA	1	Elapsed	0	77	80	/2	16	20	24	28	32	35	CH	77	877	\$2	58	6:1	77	8	2	18/	20	24	28	32	186	8	777	83	ξ,	753	2:8	77
ROCK		E E																																

Jack Diagonal Jack Varileal Displacement (x Juck Brisand Jack July 1997 1	<u> </u>	SHEAR TEST DATA	ST DAT	A SHEET	_	ري Measu	Measuring Point	lat	7.81	TD 12.0M	Blo	Block No.	2-AG	2. B.S	7	z	7 101/cm²
⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕       ⊕	Time Vertical	- G	Jack	Diagon	al Jack	٧e	rtical	Dis plac	- 1	5.5	mm)	Horizo		placeme	ے	)-3 mm)	
- 4.3	77	15.25	Jack Pressure (Kg/cm <sup>2</sup> )	Portrontal Siress (kg/am²)	Jack Pressure (kg/cm²)	<b>(</b>		<u>0+@</u>	<b>©</b>		3+4	9	9	0		1 4	Remarks
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2	Jack	Jock Yessure kg/cm²l	72.5	74.75	77.0	79.25	81.5	2.5	35.75	88.0	25.05	22.5	94.5	28.25	99.0	101.25	103.5	5.501	22 201	110,0	112,25	5611	5.911	1185	0777	123.0	125.0	527	26.601	0,281	52 18	136,5	3.8.5	141.0
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ו טאוא	Jack	Jack Tessure kg/cm <sup>2</sup> )	143		"	1	"	"	. "	"	,	1	"	1	1		1		"	1	,	"	4	1	"	1	~	"	×	1	1	*	1	
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. 6 Mg/cm²		Remarks																															
Ž	10-3 mm]	©-@ 4	1112/11	137/25/	28 873	26 9,506	57,735	696.5	/						\		/				المعمد المعاد			$\setminus$					\				
85-3	× )	9	43	29	26	22	5-3	907															1										
DA-2, B	Horizontal Displacement	<b>©</b>	89	88	21	18	عرح	578																									
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Block No.	Hori zo	9	23	32	26	29	44	106																									
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ئې.	(x 10 <sup>-3</sup> mm)	•	2/-	-/3		ر د د		-32/																			-				:		
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7	Jack	Jack Fessure kg/cm²)	143.0	55.5%	147.5	5601	157.0	154.0																									
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T DATA	Jack	Jack Pessure kg/cm <sup>2</sup> )	43	4			7	7	,																								
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SHEET	Diagonal	Stress Pressure (Kg/cm²) (Kg/cm²)	25.0	790	0,99	1.33	797	2.01	2.35	2.65	3.00	334	3.68	4,02	4,32	99'77	000	\$6.3	5.69	5.99	6.33	6.67	10.6	2.06	997	008	25.8	868	9.02	6.33	696	10.01	10,35	10,69
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7	Displacement	<u>@</u>	205	/2.	38	19.4	-9.4	54	477	1:0-	153	119	-22.5	23.4	250	2.36.3	2/1/2	767		July States	188	1183	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	13	in.	887	12	2365	2305	3386	23565	12/2  2/2	が	1
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T DAT	Jack	Jack Pressure (kg/cm <sup>2</sup> )	\$7	×	7	,	ı	1	2	*	4	,	,	1	,	2		,	4	V		"	7	v ,	,	,	Į,	,	Î	*	4	V	7	
R TES	Versical	Stress Kg/cm²)	8	*	"	"	"	".	Ÿ.	7	"	,	1	,	"	~	V.	*		1	l "	4	1	1	1		*	*	*	,		,		2
ROCK SHEAR TEST DATA SHEET		Elopsed Stress Pressure Stress Pressure (kg/cm²) (kg/cm²) (kg/cm²)	80	12	9/	20	7,7	Oc.	5.6	36	07	グカ	871	52	35	ડ છે:	3	00	7/2	9/	20	25	28	250	36	20%	24	377	C	35.	4:02	7	00	7/
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ROCK		SHEAR TEST DATA SHEET	T DAT	A SHE	~	4) Measu	Measuring Point	}	7D. 1	15.7 m		Block No.	24.7	`	B5-4	n Z	& 10,cm²	
	1	Vertical Jack	Jack	Diagonal Jack	Jack Jack	٧٥	Vertical	Dis placement		(x 10-3 mm)	nm)	Horizontal		Displacement	×	10-3 mm)		Ţ
Tim.	Eapsed	Expsed Stress Ressure Stress Ressure (kg/cm²) (kg/cm²)	Jack Pressure (kg/cm <sup>2</sup> )	Harlaama Siress (kg/am²)	Jack Pressure (kg/cm²)	Θ	0	<u>0+0</u>	<b>©</b>	<b>(4)</b>	3+ <u>4</u>	ଡ	9	(£)	<b>(a)</b>	<u>6~8</u>	Remarks	
	9/	80	53	6972	1430	9/-	- 26	12/2	-17	- 2 -	-12385	2	40	43	14/	24.50		
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	7.4		"	22,37		26 -	-50	125/05	-58	-151-	385.26	20	25	63	47	25,027		
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