

Fig-A-4-32 Deformation-Pressure Curve Deformation Test PHELL18TP 16.50m

Diagram was offered by ICE.

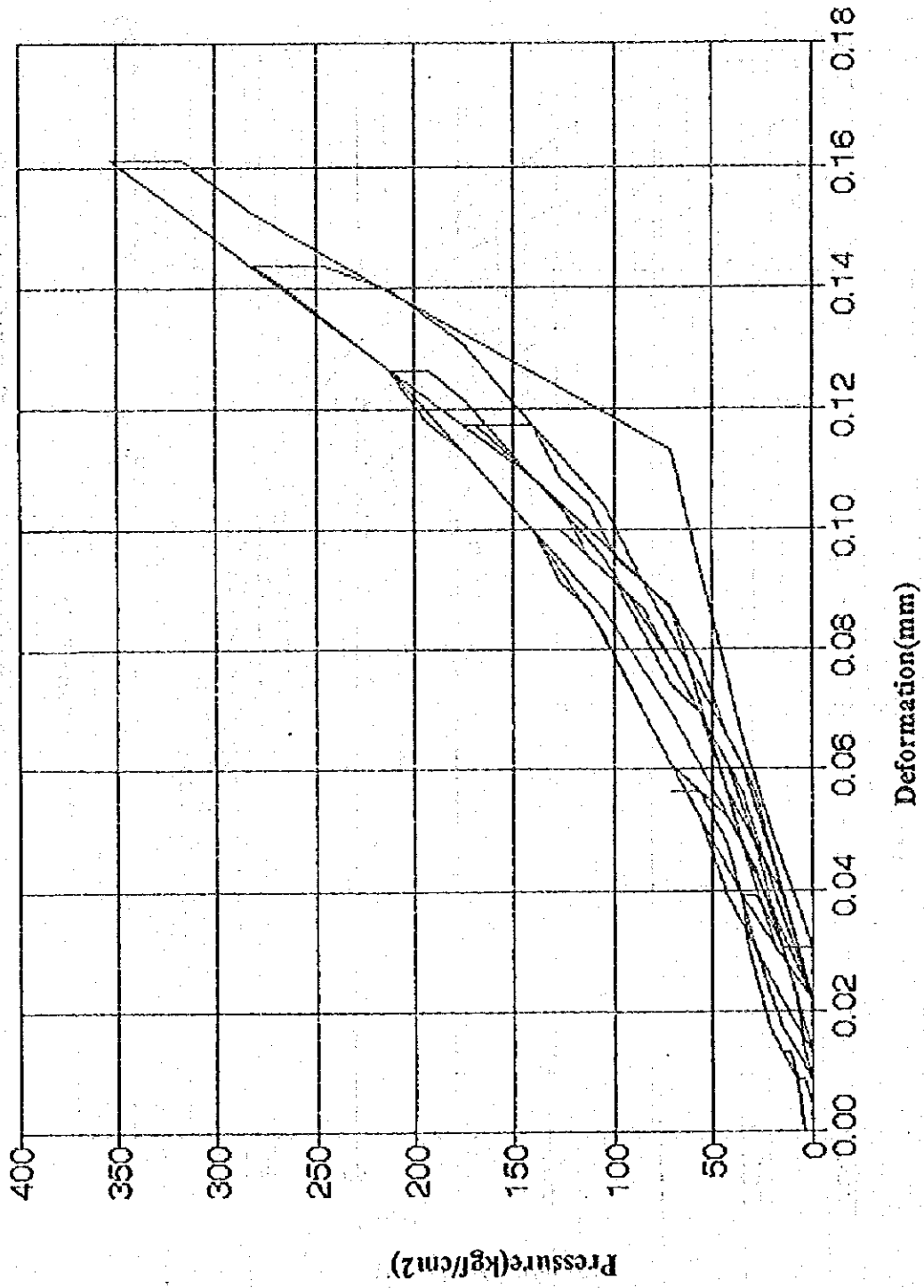


Fig.A-4-33 Deformation-Pressure Curve Deformation Test PELL18TP 22.3m

Diagram was offered by ICE.

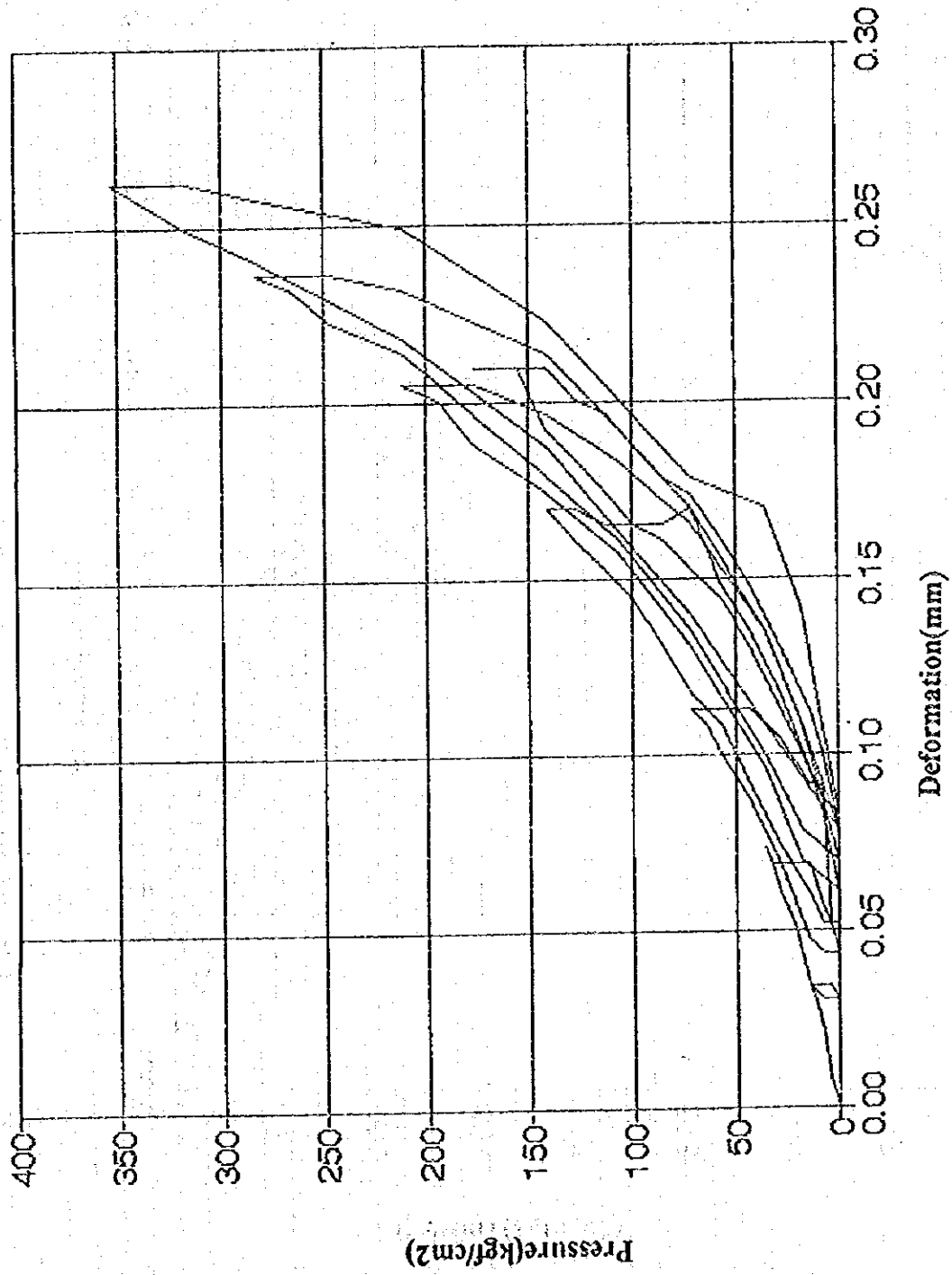


Fig.A-4-34 Deformation-Pressure Curve Deformation Test PHL18TP 22.5m

Diagram was offered by ICE.

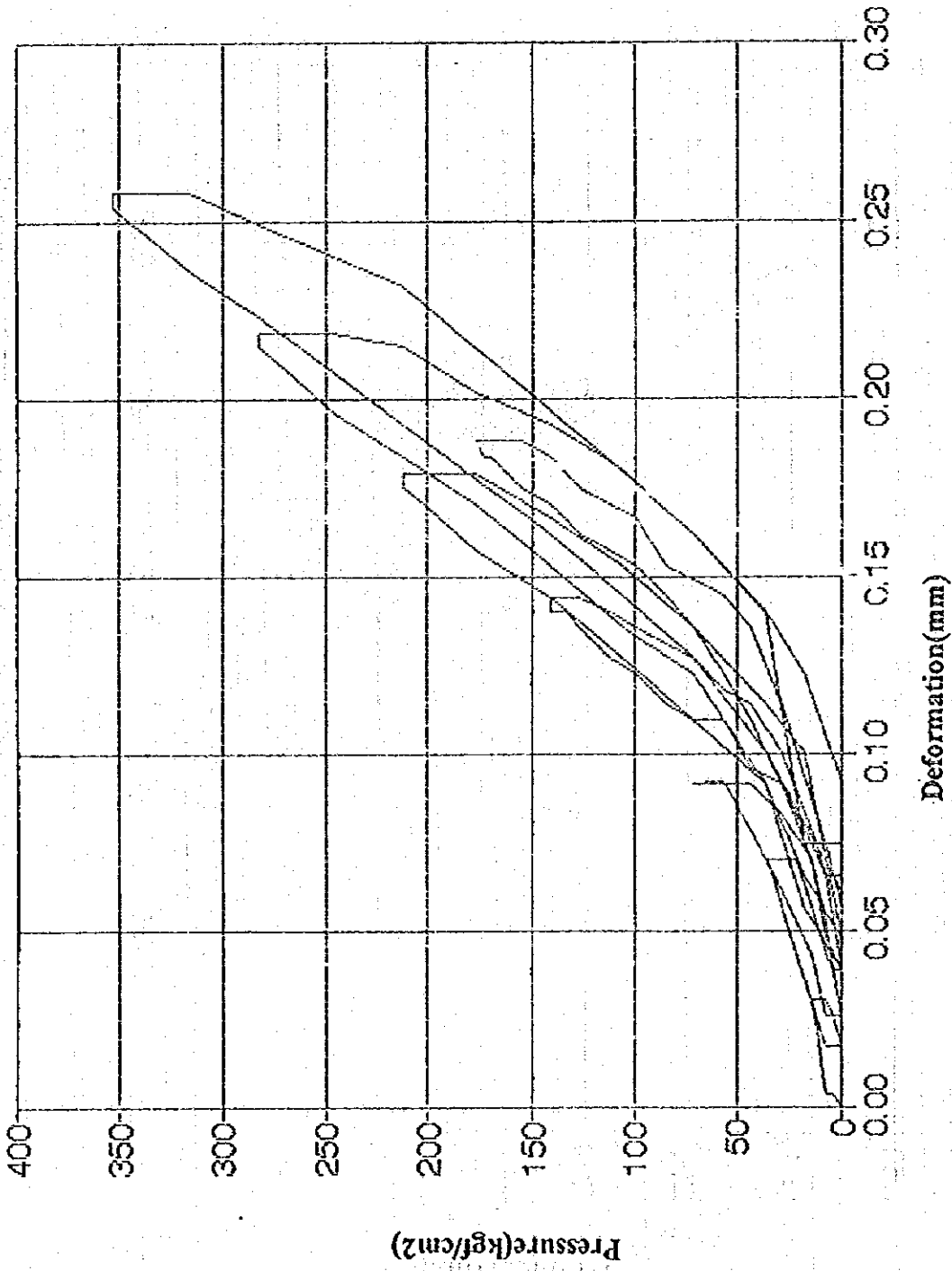


Fig.A-4-35 Deformation-Pressure Curve Deformation Test PHELL18TP 29.3m

Diagram was offered by ICE.

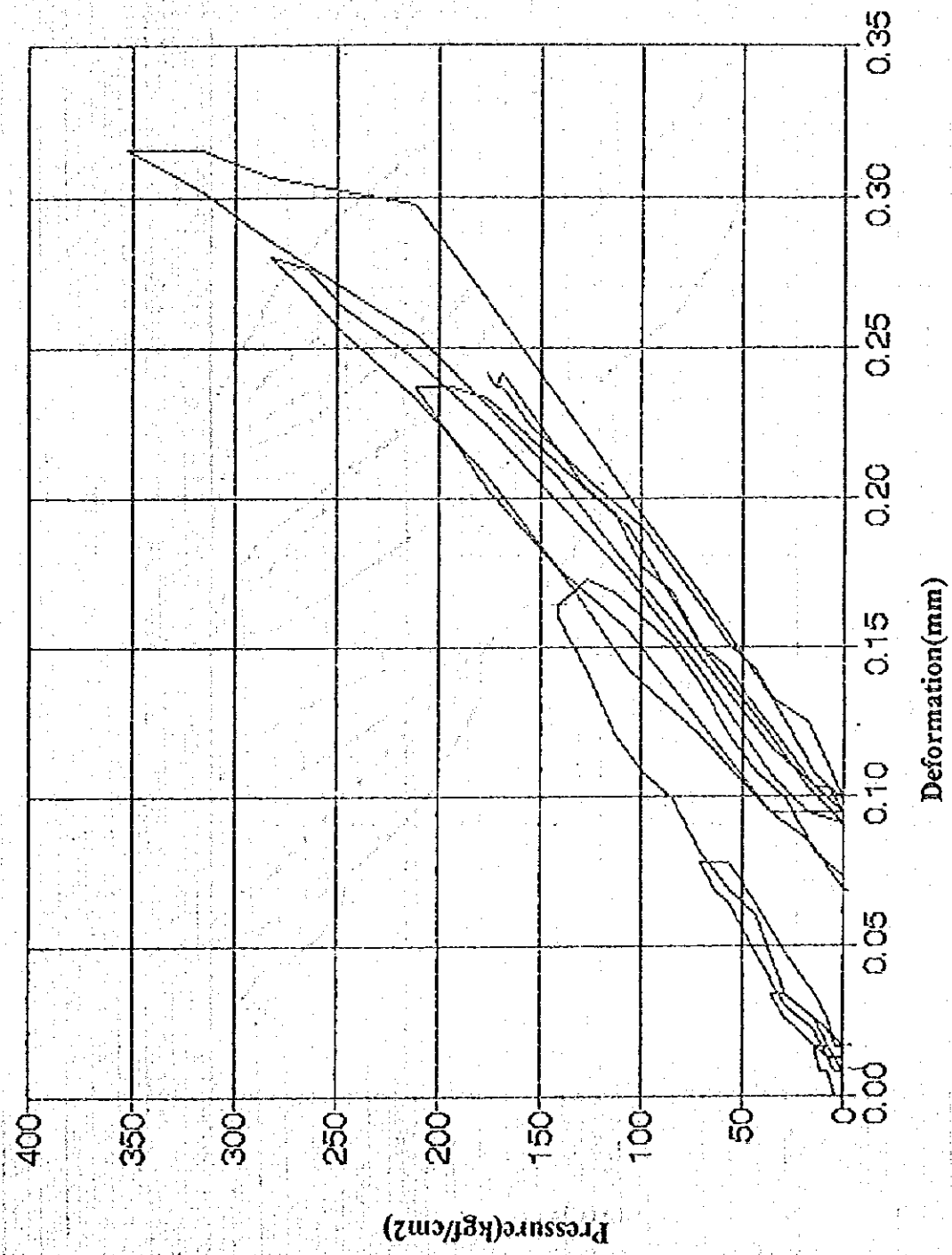


Fig.A-4-36 Deformation-Pressure Curve Deformation Test PHLL18TP 29.5m

Diagram was offered by ICE.

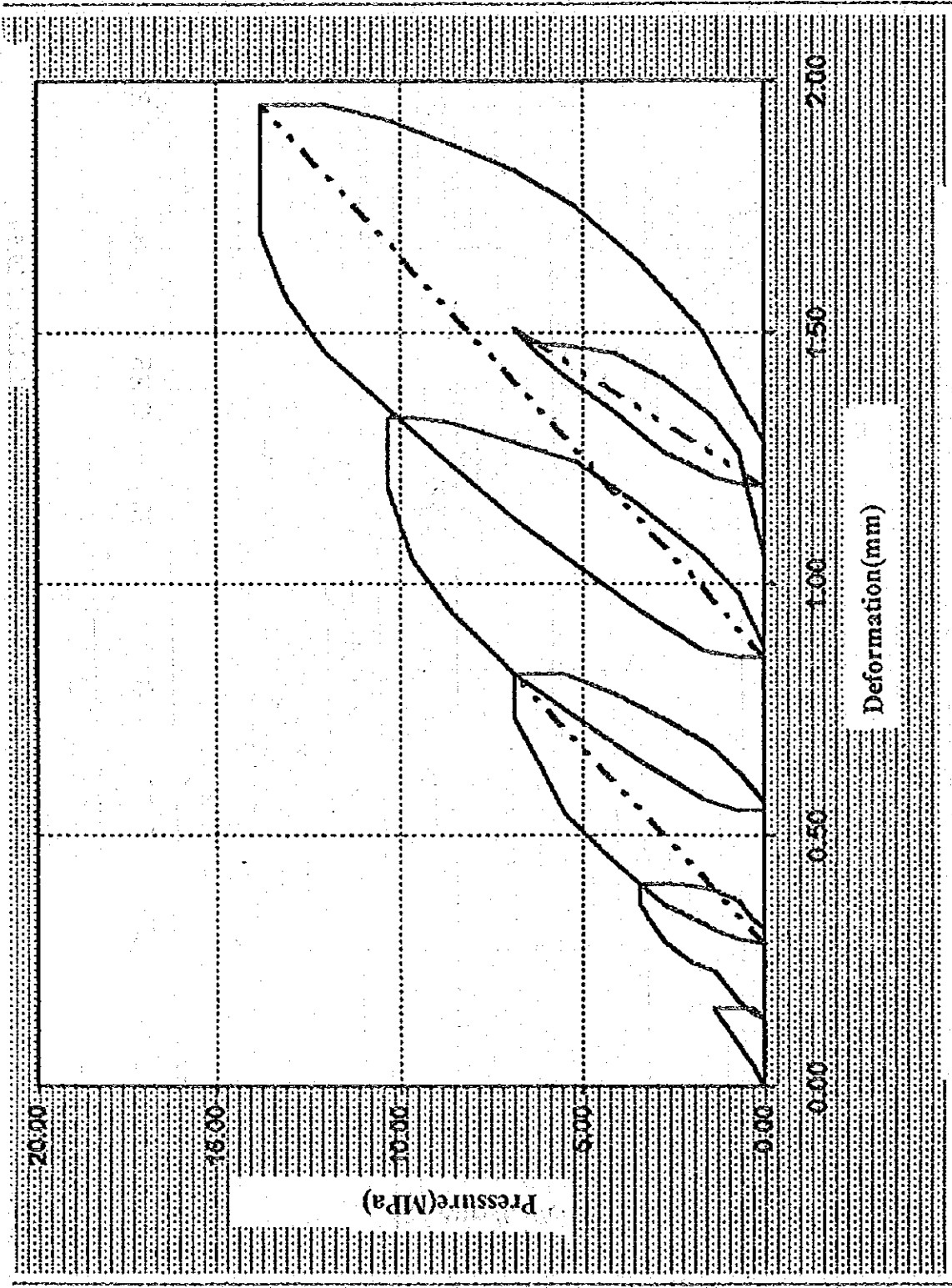


Fig-A-4-37 Deformation-Pressure Curve Deformation Test PELL19CM 4.9m

Diagram was offered by ICE.

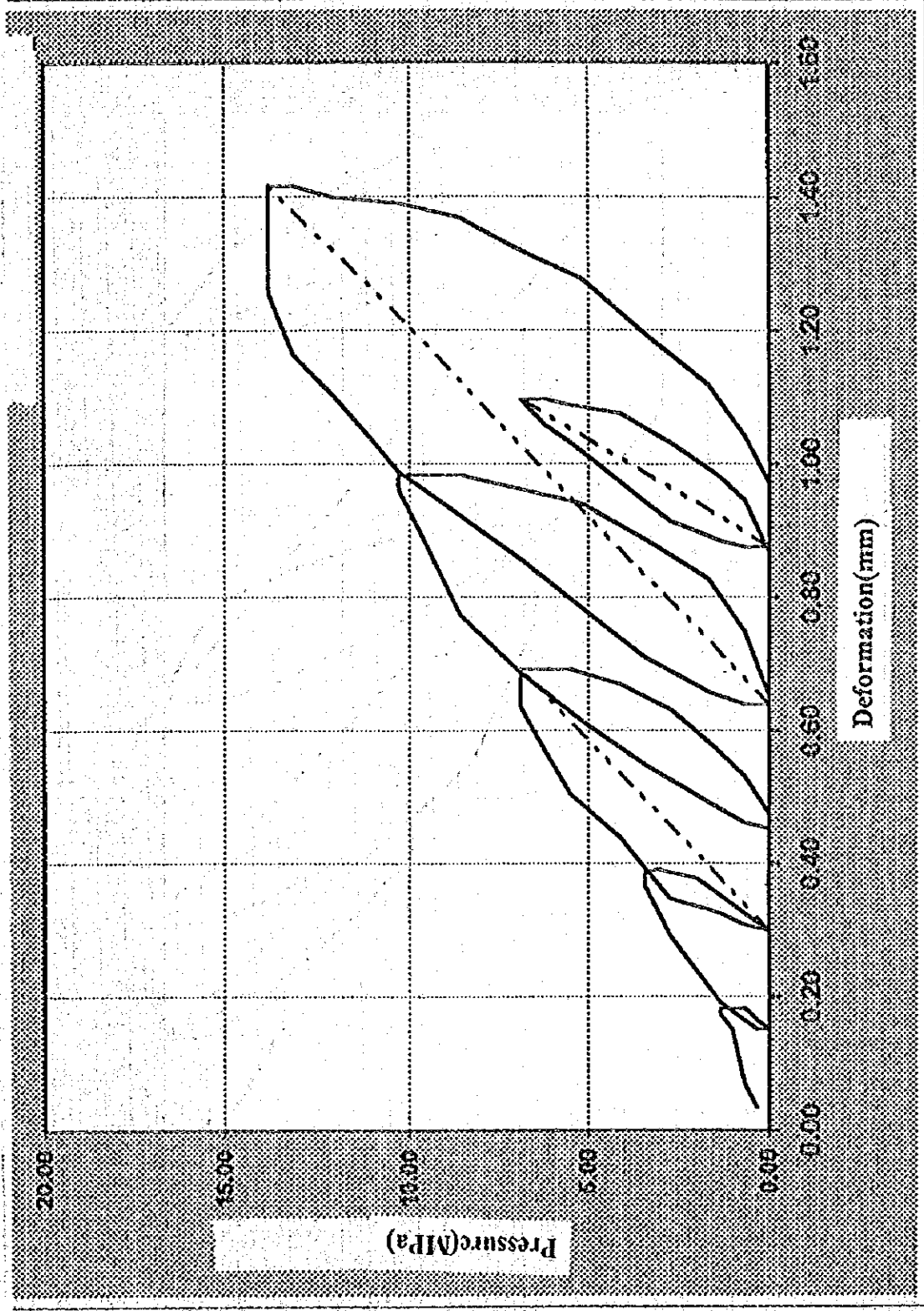


Fig.A-4-38 Deformation-Pressure Curve Deformation Test PHL19CM 9.1m

Diagram was offered by ICE.

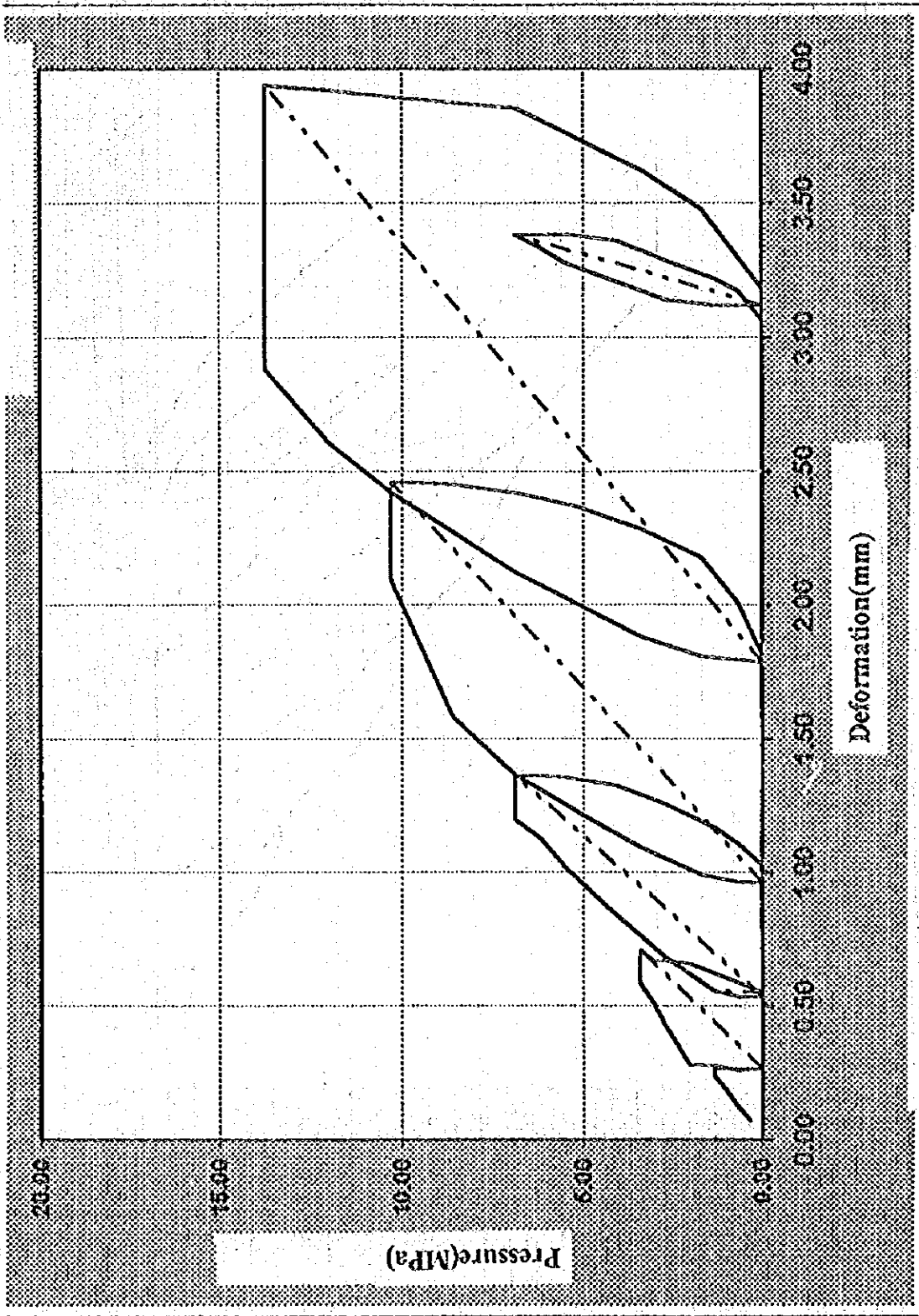


Fig-A-4-59 Deformation-Pressure Curve Deformation Test PHELL19CM 12.2m

Diagram was offered by ICE

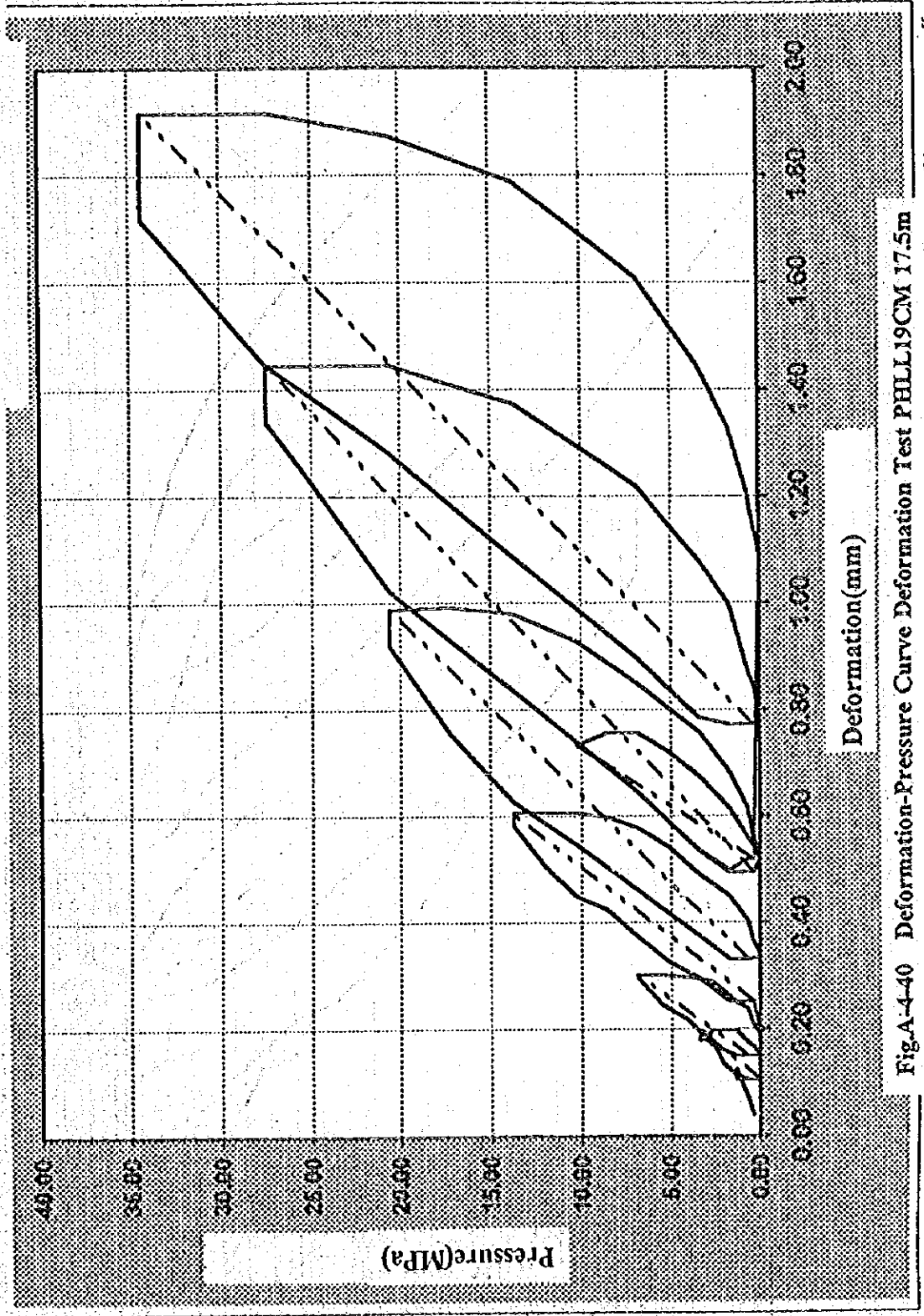


Fig.A-4-40 Deformation-Pressure Curve Deformation Test PHELL19CM 17.5m

Diagram was offered by ICE.

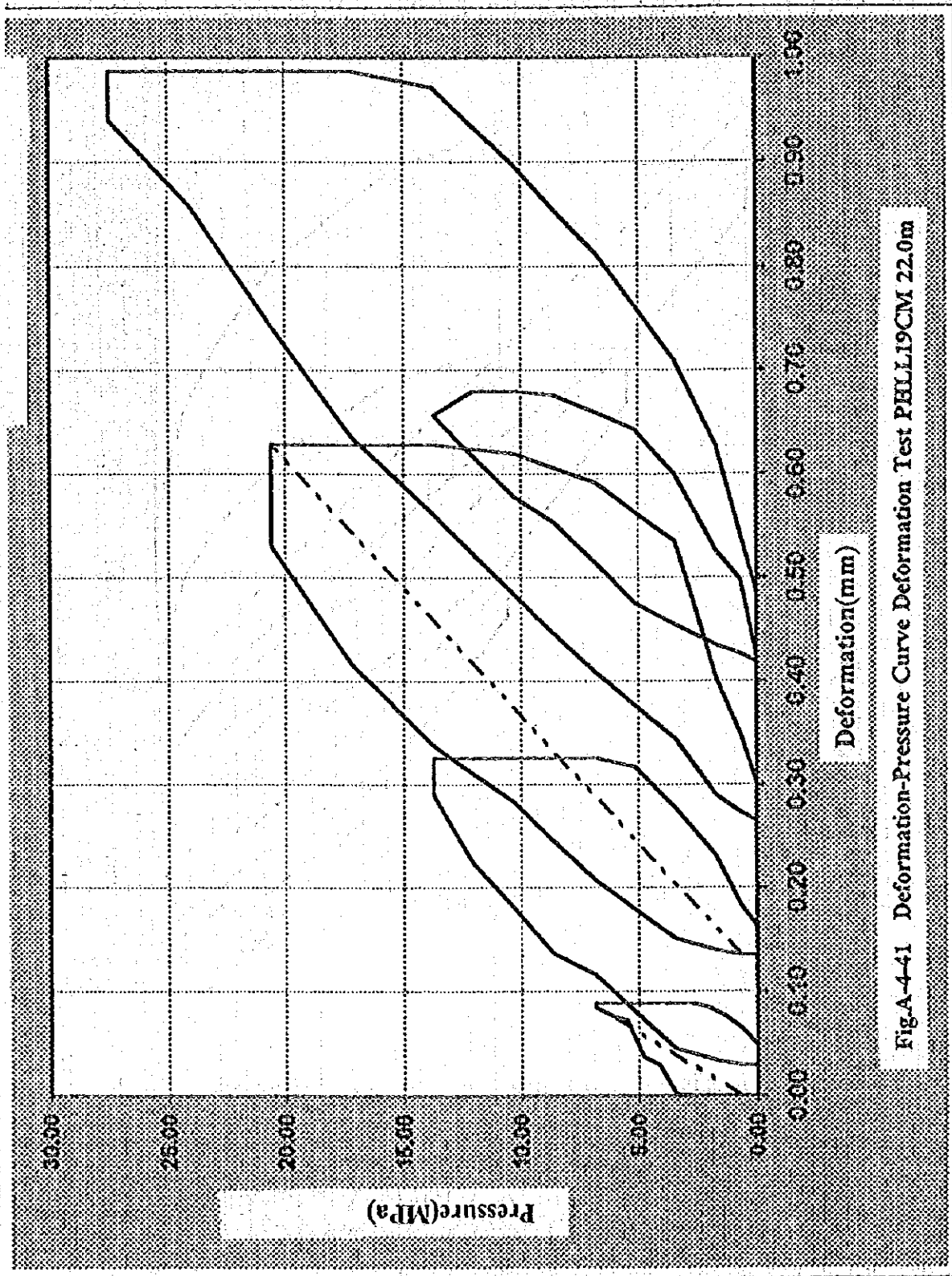


Fig.A-4-41 Deformation-Pressure Curve Deformation Test PHELL19CM 22.0m

Diagram was offered by ICE.

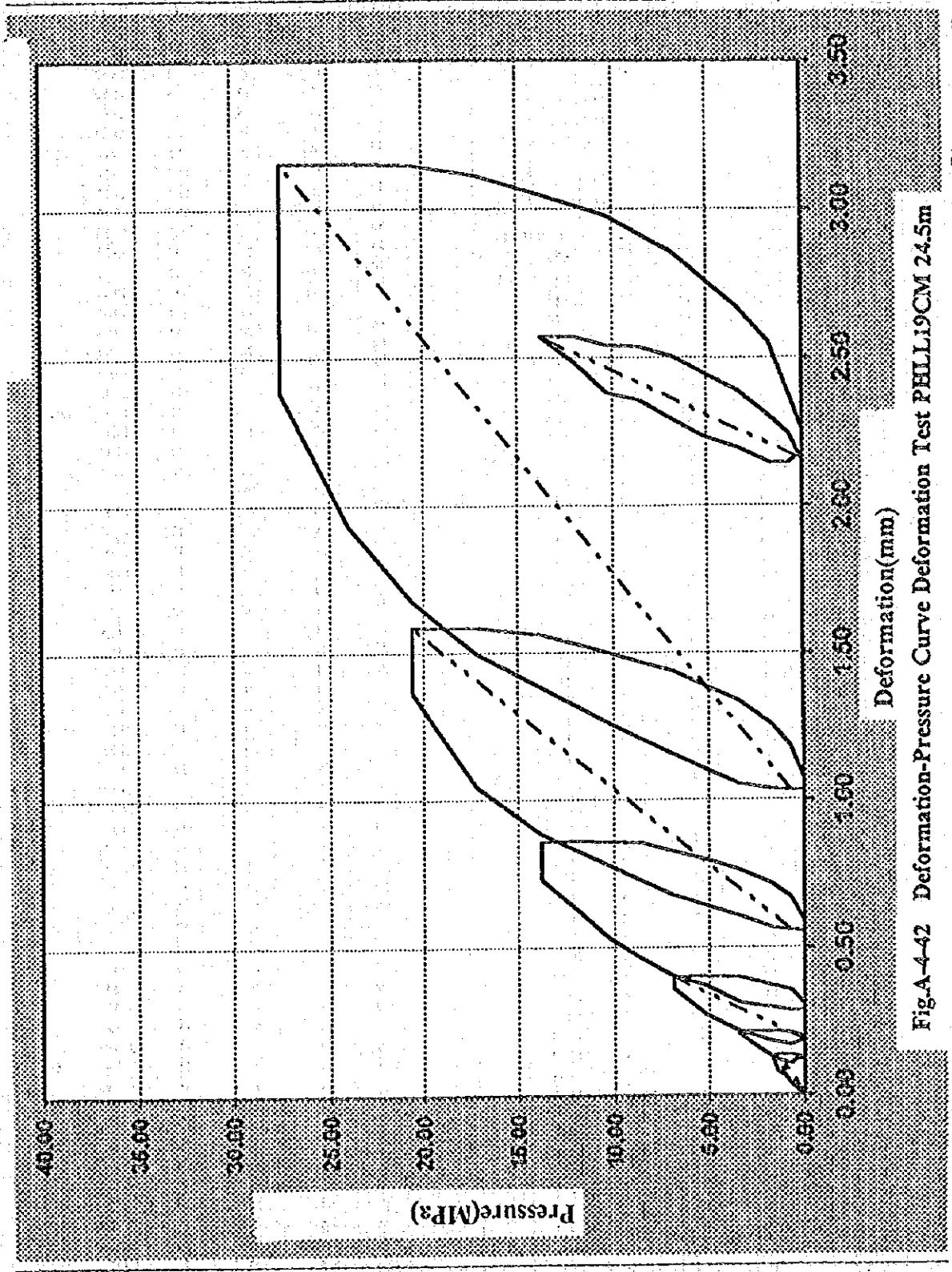


Fig-A-42 Deformation-Pressure Curve Deformation Test FELL19CM 24.5m

Diagram was offered by ICE.

Tab.A-4-1 Data Sheet of Plate-Jack Test Adit No.1 TD15m Right

Rock Specles : Conglomerate
 Date : 1994/4/14

D = 60509
 Et = 255999
 Ea = 144695
 E = 316952
 Cp = 0.48
 Defmax = 24
 Defperm = 20
 defp/defm = 83
 F/D = 5.23
 Esf.max = 50
 Poisson = 0.20

Pressure	Strain Gauge			Average Hour
	4	5	6	
0	0	0	0	0.00
2.5	0	2	0	0.67 11:17
5	1	3	1	1.67
7.5	1	4	1	2.00
10	2	7	1	3.33
10	2	7	1	3.33 11:20
7.5	2	7	1	3.33
5	2	7	1	3.33
2.5	2	6	1	3.00
0	3	2	2	2.33 11:21
0	3	2	2	2.33 11:23
2.5	3	5	2	3.33
5	3	6.5	2	3.83
7.5	3	7	2	4.00
10	3	8	2	4.33
12.5	4	10	2	5.33
15	5	11	2	6.00
20	9	16	3	9.33 11:26
20	9.5	16.5	3	9.67
20	9.5	16.5	3	9.67 11:31
15	9.5	16.5	3	9.67
12.5	9.5	16.5	3	9.67
10	9.5	16.5	3	9.67
7.5	9.5	16.5	3	9.67
5	9.5	16.5	3	9.67
2.5	9	16	4	9.67
0	9	6	4	6.33 11:35
0	9	6	4	6.33
0	9	6	4	6.33
2.5	8	11	3	7.33
5	8	12	3	7.67
7.5	8.5	14	3	8.50
10	9	14.5	3	8.83
12.5	9.5	15.5	3	9.33
15	9.5	15.5	3.5	9.50
20	10	16.5	4	10.17
25	11	17.5	4	10.83
30	12.5	19	6	12.50 11:43
30	14	20	6	13.33
30	14	20	6	13.33
25	14	20	6	13.33 11:47
20	14	20	6	13.33
15	14	20.5	6	13.50
12.5	14	20.5	6	13.50
10	14	20.5	6	13.50
7.5	14	20.5	6	13.50
5	14	20.5	6	13.50
2.5	13.5	20	7	13.50
0	13.5	13	7	11.17 11:53
0	13	12.5	7	10.83
0	13	12	6.5	10.50
2.5	12	15	6.5	11.17
5	12	17	6.5	11.83

Pressure	Strain Gauge			Average Hour
	4	5	6	
7.5	12.5	18	6.5	12.33
10	13	19	6.5	12.83
12.5	13.5	19.5	6.5	13.17
15	14	20	7	13.67
20	14.5	21	7	14.17
25	15	21	8	14.67
30	15.5	22	9	15.50
35	17	23	11	17.00
40	19	25	11	18.33
40	20	25.5	11.5	19.00 12:06
40	21	26	11.5	19.50
40	21	26	11.5	19.50
35	21	26	11.5	19.50
30	21	26	11	19.33
25	21	26	11	19.33
20	21	26	11	19.33
15	21	26	11	19.33
12.5	21	26	11	19.33
10	21	26	11	19.33
7.5	20.5	26	11	19.17
5	20	26	11	19.00
2.5	19	25	11	18.33
0	19	17	11	15.67 12:19
0	19	16	11	15.33
0	19	16	11	15.33
2.5	17	20	10	15.67 12:26
5	17	21	10	16.00
7.5	18	23	10	17.00
10	18	23	10	17.00
12.5	19	24	11	18.00
15	20	25	11	18.67
20	20	25	11	18.67
25	21	26	12	19.67
30	22	27	12	20.33
35	22	27	13	20.67
40	23	28	14	21.67
50	25	29	17	23.67
50	26	30	17	24.33
50	26	30	17	24.33 12:33
40	26	30	17	24.33
35	26	30	17	24.33
30	26	30	17	24.33
25	26	30	17	24.33
20	26	30	17	24.33
15	26	30	17	24.33
12.5	26	30	17	24.33
10	26	30	17	24.33
7.5	25	30	17	24.00
5	25	30	17	24.00
2.5	25	29	17	23.67
0	24	21	16	20.33
0	24	21	16	20.33
0	24	21	16	20.33
2.5	22	24	15	20.33
5	22	25	15	20.67
7.5	22	27	15	21.33 13:25
10	23	27	15	21.67
12.5	24	28	16	22.67
15	24	28	16	22.67
20	25	29	16	23.33
25	26	30	16.5	24.17
30	27	30	17	24.67
25	27	30	17	24.67
20	27	30	17	24.67
15	27	30	17	24.67
12.5	26.5	31	17	24.83
10	26	31	17	24.67
7.5	26	31	17	24.67
5	25.5	30.5	17	24.33
2.5	25	30	17	24.00
0	24	19	16	19.67

Tab.A-4-2 Data Sheet of Plate-Jack Test Adit No.1 TD15m Left

Rock Species ; Conglomerate	D =	75124
Date : 1994/4/14	Et =	86217
	Es =	97926
	E =	139246
	Cp =	0.68
	Defmax =	34
	Defperu =	24
	defp/defm =	70
	E/D =	1.85
	EsLmax =	50
	Poisson =	0.20

Pressure	Strain Gauge			Average Hour
	1	2	3	
0	0	0	0	0.00
2.5	0	0	0	0.00 11:17
5	3	0	1	1.33
7.5	5	0	1	-2.00
10	8	0	1	3.00
10	8	0	1	3.00 11:20
7.5	8	0	1	3.00
5	8	0	1	3.00
2.5	7	0	1	2.67
0	5	1	2	2.67 11:21
0	5	1	2	2.67 11:23
2.5	6	1	2	3.00
5	7	1	1	3.00
7.5	9	1	1	3.67
10	10	1	1	4.00
12.5	14	1	1	5.33
15	16	2	1	6.33
20	26	5	1	10.67 11:26
20	27	5	1	11.00
20	27	5	1	11.00 11:31
15	27	5	1	11.00
12.5	27	5	1	11.00
10	27	5	1	11.00
7.5	27	5	1	11.00
5	26	4	1	10.33
2.5	24	4	1	9.67
0	17	3	3	7.67 11:35
0	15	3	3	7.00
0	15	3	3	7.00
2.5	17	2	1	6.67
5	19	2	1	7.33
7.5	22	2	0	8.00
10	24	2	0	8.67
12.5	25	3	0	9.33
15	26	3	0	9.67
20	28	4	1	11.00
25	31	6	2	13.00
30	34	10	4	16.00 11:43
30	36	10	5	17.00
30	36	11	5	17.33
25	36	11	5	17.33 11:47
20	36	11	5	17.33
15	36	11	5	17.33
12.5	36	11	4	17.00
10	36	11	4	17.00
7.5	36	10	4	16.67
5	35	9	4	16.00
2.5	33	9	4	15.33
0	26	8	5	13.00 11:53
0	26	7	5	12.67
0	26	6	5	12.33
2.5	26	6	4	12.00
5	28	5	3	12.00

Pressure	Strain Gauge			From	Average Hour
	1	2	3		
7.5	30	5	2		12.33
10	32	5	2		13.00
12.5	34	6	2		14.00
15	35	6	2		14.33
20	36	8	3		15.67
25	37	10	4		17.00
30	40	12	5		19.00
35	41	14	7		20.67
40	43	19	9		23.67
40	46	20	10		25.33 12:06
40	47	21	11		26.33
40	47	21	11		26.33
35	47	21	11		26.33
30	47	21	11		26.33
25	47	21	11		26.33
20	47	20	10		25.67
15	47	19	10		25.33
12.5	47	19	9		25.00
10	47	17	8		24.00
7.5	47	16	8		23.67
5	45	15	7		22.33
2.5	43	14	7		21.33
0	35	11	8		18.00 12:19
0	33	10	8		17.00
0	33	10	8		17.00
2.5	35	9	6		16.67 12:26
5	36	9	5		16.67
7.5	39	9	5		17.67
10	40	9	5		18.00
12.5	43	11	5		19.67
15	44	11	5		20.00
20	45	13	5		21.00
25	46	15	7		22.67
30	48	18	8		24.67
35	49	20	10		26.33
40	50	22	11		27.67
50	53	29	14		32.00
50	55	30	16		33.67
50	55	31	16		34.00 12:33
40	56	31	16		34.33
35	56	31	16		34.33
30	56	31	16		34.33
25	56	30	15		33.67
20	56	29	15		33.33
15	56	27	13		32.00
12.5	56	26	13		31.67
10	55	24	12		30.33
7.5	55	23	11		29.67
5	54	21	11		28.67
2.5	51	20	11		27.33
0	44	17	11		24.00
0	42	16	11		23.00
0	42	16	11		23.00
2.5	42	16	9		22.33
5	44	16	9		23.00
7.5	46	16	8		23.33 12:55
10	48	16	8		24.00
12.5	50	16	8		24.67
15	51	17	8		25.33
20	52	19	8		26.33
25	53	21	10		28.00
30	55	24	11		30.00
25	55	24	11		30.00
20	55	24	11		30.00
15	55	24	11		30.00
12.5	55	23	11		29.67
10	55	22	10		29.00
7.5	55	21	10		28.67
5	55	20	10		28.33
2.5	52	19	10		27.00
0	43	15	10		22.67

Tab.A-4-3 Data Sheet of Plate-Jack Test Adlt No.1 TD28m Right

Rock Species : Conglomerate
 Date : 1994/4/19 IALFRIA MD

D = 16557
 Et = 25136
 Es = 23240
 E = 48162
 Cp = 0.96
 Defmax = 85.6
 Defperm = 48
 defp/defm = 56
 E/D = 2.9
 Esf.max = 50
 Poisson = 0.20

Pressure	Strain Gauge			Average Hour
	4	5	6	
0	0	0	0	0.00
2.5	0	0	2	0.67 09:15
5	1	6	12	6.33
7.5	2	10	19	10.33
10	6	16	26	16.00
10	8	17	26	17.00 11:20
10	9	17	26	17.33
7.5	9	16	26	17.00
5	9	14	23	15.33
2.5	9	12	19	13.33 11:21
0	7	5	5	5.67 11:23
0	7	5	5	5.67
2.5	7	5	7	6.33
5	7	9	16	10.67
7.5	8	13	24	15.00
10	10	16	27	17.67
12.5	14	22	31	22.33
15	17	27	34	26.00 11:26
20	27	42	46	38.33
20	29	43	47	39.67 11:31
20	29	43	47	39.67
15	29	43	47	39.67
12.5	29	42	47	39.33
10	29	40	45	38.00
7.5	29	37	42	36.00
5	28	32	37	32.33
2.5	27	26	28	27.00 11:35
0	23	14	10	15.67
0	23	13	10	15.33
0	23	13	10	15.33
2.5	23	14	13	16.67
5	24	21	25	23.33
7.5	26	26	32	28.00
10	27	32	39	32.67
12.5	28	37	42	35.67
15	30	40	45	38.33
20	33	46	50	43.00
25	37	54	55	48.67 11:43
30	42	64	62	56.00
30	44	66	63	57.67
30	44	66	63	57.67 11:47
25	44	66	63	57.67
20	44	65	63	57.33
15	44	63	61	56.00
12.5	44	61	60	55.00
10	44	56	56	52.00
7.5	43	51	52	48.67
5	42	45	46	44.33
2.5	40	37	35	37.33 11:53
0	37	30	24	30.33
0	36	29	24	29.67
0	36	29	24	29.67
2.5	37	29	25	30.33

Pressure	Strain Gauge			Average Hour
	4	5	6	
5	38	33	32	34.33
7.5	39	40	40	39.67
10	40	45	47	44.00
12.5	41	49	51	47.00
15	42	53	54	49.67
20	44	60	60	54.67
25	46	65	63	58.00
30	48	70	66	61.33
35	50	75	69	64.67
40	55	84	74	71.00 12:06
40	56	86	75	72.33
40	57	86	75	72.67
35	57	86	75	72.67
30	57	86	75	72.67
25	57	85	75	72.33
20	57	84	75	72.00
15	57	80	73	70.00
12.5	57	77	71	68.33
10	57	72	67	65.33
7.5	56	66	62	61.33
5	55	58	54	55.67
2.5	52	47	40	46.33
0	47	37	27	37.00 12:19
0	47	36	27	36.67
0	47	36	27	36.67
2.5	47	38	32	39.00 12:26
5	48	44	39	43.67
7.5	50	50	40	46.67
10	51	55	53	53.00
12.5	52	62	59	57.67
15	53	65	62	60.00
20	55	72	69	65.33
25	56	78	72	68.67
30	58	83	75	72.00
35	59	86	77	74.00
40	61	90	79	76.67
50	66	101	84	83.67
50	68	103	85	85.33
50	68	103	86	85.67 12:33
50	68	103	86	85.67
40	68	103	86	85.67
35	68	103	86	85.67
30	68	102	86	85.33
25	68	101	86	85.00
20	68	98	85	83.67
15	68	94	83	81.67
12.5	68	91	80	79.67
10	68	85	76	76.33
7.5	67	77	69	71.00
5	66	70	64	66.67
2.5	65	61	54	60.00
0	58	49	37	48.00
0	57	47	36	46.67
2.5	57	47	37	47.00
5	58	52	45	51.67
7.5	60	58	52	56.67 13:25
10	61	63	58	60.67
12.5	62	70	65	65.67
15	63	75	69	69.00
20	65	84	76	75.00
25	66	90	80	78.67
30	67	95	83	81.67
25	68	95	84	82.33
20	68	94	84	82.00
15	68	92	82	80.67
12.5	68	87	79	78.00
10	68	82	75	75.00
7.5	68	77	71	72.00
5	67	67	61	65.00
2.5	65	58	51	58.00
0	59	48	35	47.33

Tab.A-4-4 Data Sheet of Plate-Jack Test Adit No.1 TD28m Left

Rock Species : Conglomerate	D =	12770
Date : 1994/4/19	E _t =	19035
	E _a =	18067
	E =	41967
	C _p =	1.16
	Def _{max} =	110
	Def _{perm} =	58
	def _p /def _m =	52
	E/D =	3.28
	E _f max =	50
	Poisson =	0.20

Pressure	Strain Gauge			Average Hour
	1	2	3	
0	0	0	0	0.00
2.5	0	0	2	0.67
5	0	10	8	6.00
7.5	1	18	14	11.00
10	1	25	24	15.67
10	2	27	25	18.00
10	2	27	26	18.33
7.5	2	27	25	18.00
5	2	23	21	15.33
2.5	2	18	18	12.67
0	2	-2	11	3.67
0	2	-2	10.5	3.50
2.5	2	4	10.5	5.50
5	3	15	16	11.33
7.5	3	24	23	16.67
10	3	29	28	20.00
12.5	3	36	37	25.33
15	4	43	45	30.67
20	4	60	70	44.67
20	4	61	71.5	45.50
20	5	62	72	46.33
15	5	62	72	46.33
12.5	5	61	70	45.33
10	5	60	66	43.67
7.5	5	56	61	40.67
5	5	49	54	36.00
2.5	6	38	45	29.67
0	6	9	30	15.00
0	6	8	29	14.33
0	6	8	29	14.33
2.5	6	16	30	17.33
5	7	34	39	26.67
7.5	7	43	48	32.67
10	7	50	56	37.67
12.5	7	57	64	42.67
15	7	60	69	45.33
20	7	68	79	51.33
25	7	78	90	58.33
30	7	90	110	69.00
30	7	91	111	69.67
30	7	91	111	69.67
25	7	91	111	69.67
20	7	91	110	69.33
15	8	90	106	68.00
12.5	8	88	103	66.33
10	9	84	94	62.33
7.5	9	79	86	58.00
5	9	70	77	52.00
2.5	9	53	65	42.33
0	9	36	55	33.33
0	9	36	55	33.33
0	9	36	55	33.33
2.5	10	40	55	35.00

Pressure	Strain Gauge			Average Hour
	1	2	3	
5	10	52	61	41.00
7.5	10	64	71	48.33
10	10	72	80	54.00
12.5	10	77	86	57.67
15	10	81	92	61.00
20	10	89	104	67.67
25	10	93	112	71.67
30	10	99	122	77.00
35	10	105	128	81.00
40	10	115	144	89.67
40	10	116	147	91.00
40	10	116	147	91.00
35	10	116	147	91.00
30	10	116	146	90.67
25	10	116	144	90.00
20	11	115	140	88.67
15	11	112	135	86.00
12.5	11.5	110	131	84.17
10	12	107	124	81.00
7.5	12	100	115	75.67
5	13	90	101	68.00
2.5	13	70	84	55.67
0	12.5	46	70	42.83
0	12.5	45	69	42.17
0	12.5	45	69	42.17
2.5	12.5	57	74	47.83
5	12.5	70	82	54.83
7.5	12.5	83	93	62.83
10	12.5	89	101	67.50
12.5	12.5	96	111	73.17
15	12.5	101	118	77.17
20	12	107	128	82.33
25	12	112	136	86.67
30	12	116	143	90.33
35	12	120	148	93.33
40	12	125	154	97.00
50	12	136	174	107.33
50	12	138	177	109.00
50	13	139	178	110.00
50	13	139	178	110.00
40	13	139	178	110.00
35	13	138	177	109.33
30	13	138	176	109.00
25	13.5	137	171	107.17
20	13.5	135	166	104.83
15	14	132	160	102.00
12.5	14	130	155	99.67
10	14	125	148	95.67
7.5	15	118	136	89.67
5	15	110	127	84.00
2.5	16	96	113	75.00
0	16	68	92	58.67
0	16	68	92	58.67
2.5	16	73	92	60.33
5	16	85	100	67.00
7.5	16	97	111	74.67
10	16	105	120	80.33
12.5	16	112	130	86.00
15	16	117	138	90.33
20	16	125	150	97.00
25	16	130	158	101.33
30	16	135	165	105.33
25	16	135	165	105.33
20	16	133	163	104.00
15	16	131	158	101.67
12.5	16	129	153	99.33
10	16	125	147	96.00
7.5	17	120	138	91.67
5	17.5	108	125	83.50
2.5	17.5	93	111	73.83
0	17.5	65	92	58.17

Tab.A-4-6 Data Sheet of Plate-Jack Test Pit No.2 Depth 9m Pararell Left

Rock Species : Conglomerate
 Date : 1994/3/15

D = 1570
 Et = 3526
 Fa = 2904
 E = 6170
 Cp = 19.50
 Defmax 975
 Defperm 750
 del/p/defm 77
 E/D = 3.92
 Est max = 50
 Poisson = 0.20

Pressure	Strain Gauge			Average Hour
	1	2	3	
0	0	0	0	0.00
2.5	23	29	20	24.00
5	49	55	42	48.67
7.5	97	83	82	87.33
10	144	120	133	132.33
10	147	121	136	134.67
10	148	121	137	135.33
10	148	121	137	135.33
7.5	146	119	136	133.67
5	136	109	129	124.67
2.5	109	85	108	100.67
0	64	25	66	51.67
0	63	25	66	51.33
2.5	94	56	74	74.67
5	125	88	113	108.67
7.5	142	106	130	126.00
10	167	128	152	149.00
12.5	206	159	191	185.33
15	251	198	141	196.67
20	344	282	342	322.67
20	363	298	362	341.00
20	365	300	364	343.00
20	366	300	365	343.67
20	366	300	366	344.00
15	363	297	363	341.00
12.5	358	291	359	335.00
10	347	280	350	325.67
7.5	335	268	341	314.67
5	318	252	327	299.00
2.5	278	210	293	260.33
0	207	111	223	180.33
0	204	110	223	179.00
2.5	240	146	247	211.00
5	277	186	277	246.67
7.5	305	211	303	273.00
10	325	238	322	295.00
12.5	346	264	343	317.67
15	360	278	357	331.67
20	397	310	390	365.67
25	466	364	456	428.67
30	558	447	551	518.67
30	566	452	557	525.00
30	568	453	560	527.00
30	569	454	561	528.00
25	568	453	560	527.00
20	560	445	554	519.67
15	548	432	545	508.33
12.5	541	424	540	501.67
10	525	406	527	486.00
7.5	512	391	517	473.33
5	490	369	496	451.67
2.5	450	329	464	414.33
0	370	239	400	336.33
0	369	237	399	335.00
0	368	237	399	334.67
2.5	396	260	413	356.33
5	428	290	437	385.00
7.5	460	324	463	415.67
10	481	345	479	435.00
12.5	507	375	501	461.00
15	520	391	514	475.00
20	549	421	542	504.00

Pressure	Strain Gauge			Average Hour
	1	2	3	
25	574	443	566	529.33
30	610	480	600	563.33
35	664	528	656	616.00
40	773	634	776	727.67
40	783	642	783	736.00
40	789	647	790	742.00
40	792	650	792	744.67
40	792	652	795	746.33
40	794	653	796	747.67
35	793	652	795	746.67
30	787	646	790	741.00
25	781	640	786	735.67
20	769	689	778	745.33
15	753	610	766	709.67
12.5	745	600	760	701.67
10	727	581	747	685.00
7.5	707	561	730	666.00
5	683	535	710	642.67
2.5	630	480	669	593.00
0	525	325	569	473.00
0	522	324	568	471.33
0	521	324	568	471.00
2.5	556	369	585	503.33
5	602	421	624	549.00
7.5	634	460	652	582.00
10	656	484	672	604.00
12.5	685	519	698	634.00
15	702	538	713	651.00
20	733	574	744	683.67
25	760	606	769	711.67
30	787	636	793	738.67
35	810	661	816	762.33
40	840	691	845	792.00
50	983	821	988	930.67
50	1020	856	1025	967.00
50	1025	860	1030	971.67
50	1027	863	1034	974.67
50	1029	864	1036	976.33
50	1031	866	1038	978.33
50	1032	867	1039	979.33
40	1027	862	1036	975.00
35	1020	854	1030	968.00
30	1013	846	1025	961.33
25	1005	837	1018	953.33
20	992	822	992	935.33
15	973	800	992	921.67
12.5	965	790	987	914.00
10	940	761	970	890.33
7.5	921	738	956	871.67
5	893	708	933	844.67
2.5	841	650	890	793.67
0	736	511	798	681.67
0	733	510	796	679.67
0	731	507	793	677.00
0	731	507	793	677.00
2.5	753	535	805	697.67
5	802	596	841	746.33
7.5	835	638	868	780.33
10	860	667	887	804.67
12.5	874	695	909	826.00
15	905	717	928	850.00
20	937	757	957	883.67
25	962	788	982	910.67
30	985	815	1003	934.33
25	984	814	1003	933.67
20	975	809	997	925.00
15	962	788	988	912.67
12.5	953	776	981	903.33
10	937	759	969	888.33
7.5	916	733	954	867.67
5	892	704	936	844.00
2.5	853	657	905	805.00
0	759	538	822	706.33

Tab.A-4-7 Data Sheet of Plate-Jack Test Pit No.2 Depth 9m Perpendicular Right (1/2)

Rock Species : Conglomerate	D = 6279
Date : 1994/3/8	E ₁ = 14425
	E ₂ = 12473
	E = 13572
	C _p = 3.08
	Def _{max} = 295
	Def _{perm} = 185
	d _{el} /d _{ef} = 62
	E/D = 2.16
	E _{sl} max = 50
	Poisson = 0.20

Pressure	Strain Gauge			Average	Hour	Pressure	Strain Gauge			Average	Hour
	4	5	6								
0	0	0	0	0.00		0	27	190	22	79.67	
2.5	1	3	0	1.33	11:17	2.5	28	193	21	80.67	
5	4	37	0	7.00		5	30	215	21	88.67	
7.5	7	48	0	18.33		7.5	32	234	21	95.67	
10	10	74	4	29.33		10	34	246	23	101.00	
10	10	75	4	29.67	11:20	12.5	38	263	28	109.67	
10	10	76	5	30.33		15	40	273	31	114.67	
10	10	76	5	30.33		20	45	293	37	125.00	
7.5	10	76	5	30.33		25	49	315	42	135.33	12:06
5	10	72	5	29.00	11:21	30	53	336	46	145.00	
2.5	11	56	4	23.67	11:23	35	58	364	52	158.00	
0	2	28	4	11.33		40	65	408	59	177.33	
0	2	28	4	11.33		40	67	423	60	183.33	
2.5	4	36	4	14.67		40	67	426	60	184.33	
	7	58	4	23.00		40	68	434	60	187.33	
7.5	9	72	4	28.33		40	69	437	60	188.67	
10	12	87	5	34.67	11:26	40	69	440	60	189.67	
12.5	15	111	12	46.00		35	69	440	60	189.67	
15	20	132	18	56.67	11:31	30	68	435	57	186.67	
20	32	189	35	85.33		25	66	430	55	183.67	
20	33	195	35	87.67		20	64	423	51	179.33	
20	33	195	35	87.67		15	62	413	46	173.67	12:19
15	33	193	35	87.00		12.5	60	406	44	170.00	
12.5	33	189	34	85.33		10	57	395	39	163.67	
10	31	181	31	81.00		7.5	56	385	35	158.67	12:26
7.5	29	172	28	76.33	11:35	5	52	370	29	150.33	
5	28	164	26	72.67		2.5	46	340	23	136.33	
2.5	24	145	23	64.00		0	33	277	28	112.67	
0	14	100	20	44.67		0	32	276	17	108.33	
0	14	99	20	44.33		0	32	276	17	108.33	
0	14	99	20	44.33		2.5	35	295	18	116.00	
2.5	14	107	20	47.00		5	40	313	18	123.67	
5	18	133	20	57.00		7.5	44	336	19	133.00	
7.5	20	150	20	63.33		10	46	351	24	140.33	
10	24	166	20	70.00		12.5	50	367	28	148.33	
12.5	27	181	26	78.00		15	53	380	36	156.33	
15	30	191	28	83.00	11:43	20	57	401	42	166.67	
20	35	217	33	95.00		25	61	430	47	176.00	12:33
25	41	245	40	108.67		30	64	435	51	183.33	
30	48	283	48	126.33	11:47	35	68	452	55	191.67	
30	51	301	50	134.00		40	71	472	66	203.00	
30	51	304	50	135.00		50	82	542	66	230.00	
30	51	305	50	135.33		50	84	560	66	236.67	
30	51	305	50	135.33		50	84	567	66	239.00	
25	50	301	48	133.00		50	84	569	64	239.00	
20	48	292	44	128.00		40	84	566	62	237.33	
15	46	287	42	125.00		35	83	562	59	234.67	
12.5	45	278	39	120.67	11:53	30	81	556	56	231.00	
10	43	267	35	115.00		25	79	551	51	227.00	
7.5	40	255	31	108.67		20	76	543	45	221.33	
5	37	236	26	99.67		15	73	532	41	215.33	
2.5	28	190	23	80.33		12.5	81	524	36	213.67	
0	27	190	22	79.67		10	68	513	30	203.67	

Data sheet was offered by ICE.

Tab.A-4-7 Data Sheet of Plate-Jack Test Pit No.2 Depth 9m Perpendicular Right (2/2)

Pressure	Strain Gauge	Average Hour
7.5	65 501	24 196.67 12:55
5	61 484	16 187.00
2.5	53 453	11 172.33
0	36 378	9 141.00
0	35 377	9 140.33
2.5	38 396	9 147.67
5	45 419	9 157.67
7.5	49 439	9 165.67
10	53 453	10 172.00
12.5	58 475	17 183.33
15	60 486	21 189.00
20	65 508	30 201.00
25	70 529	38 212.33
30	74 545	45 221.33
35	77 561	50 229.33 13:08
40	81 578	55 238.00
50	86 610	60 252.00
60	97 687	68 284.00 13:16
60	101 721	67 296.33
60	101 728	67 298.67
60	101 728	66 298.33
50	101 728	66 298.33
40	98 722	62 294.00
35	96 716	58 290.00
30	94 710	55 286.33
25	92 702	51 281.67
20	88 693	46 275.67
15	85 681	38 268.00
12.5	82 675	35 264.00
10	78 672	27 259.00
7.5	75 652	22 249.67
5	70 632	14 238.67 13:25
2.5	58 594	2 218.00
0	40 518	-5 184.33
0	38 517	-5 183.33
2.5	42 536	-11 189.00
5	51 559	-11 199.67
7.5	56 578	-8 208.67
10	60 593	-2 217.00
12.5	66 615	6 229.00
15	69 625	10 234.67
20	75 650	21 248.67
25	80 670	30 260.00
30	84 686	37 269.00
30	84 686	37 269.00
25	83 680	34 265.67
20	80 670	28 259.33
15	79 665	25 256.33
12.5	75 653	18 248.67
10	72 643	14 243.00
7.5	68 631	9 238.00 13:47
5	56 595	-1 216.67
2.5	41 525	-7 186.33
0		

Data sheet was offered by ICE.

Tab.A-4-8 Data Sheet of Plate-Jack Test Pit No.2 Depth 9m Perpendicular Left(1/2)

Rock Species : Conglomerate	D = 18644
Date : 1994/3/8	E _t = 35329
	E _s = 31074
	E = 29874
	C _p = 0.75
	Def _{max} = 100
	Def _{perm} = 45
	def _p /def _m = 45
	E/D = 1.60
	E _s max = 50
	Poisson = 0.20

Pressure	Strain Gauge			Average Hour
	1	2	3	
0	0	0	0	0.00
2.5	0	0	0	0.00 11:17
5	1	0	3	1.33
7.5	3	3	8	4.67
10	6	5.5	14	8.50
10	7	6	15	9.33 11:20
10	7	7	15	9.67
10	7	7	15	9.67
7.5	7	7	15	9.67
5	6	6	14	8.67 11:21
2.5	5	5	11	7.00 11:23
0	3	2.5	4	3.17
0	3	2.5	4	3.17
2.5	3.5	2.5	5	3.67
5	5	4	9	6.00
7.5	7	5	12	8.00
10	8	7	15	10.00 11:26
12.5	11	9	20	13.33
15	14	12	25	17.00 11:31
20	21	22	41	28.00
20	22	22	41	28.33
20	22	22	41	28.33
15	22	22	41	28.33
12.5	21	21	40	27.33
10	20	20	37	25.67
7.5	19	19	34	24.00 11:35
5	17	17	31	21.67
2.5	14	14	24	17.33
0	11.5	9.5	15	12.00
0	11	9	15	11.67
0	11	9	15	11.67
2.5	11	9	16	12.00
5	13	11	21	15.00
7.5	15	13	25	17.67
10	17	15	29	20.33
12.5	19	17	33	23.00
15	20	18	36	24.67 11:43
20	25	22	42	29.67
25	29	27	49	35.00
30	36	35	59	43.33 11:47
30	39	37	61.5	45.83
30	39	37	62	46.00
30	39	37	62	46.00
25	39	37	62	46.00
20	38	36	60	44.67
15	36	34	57	42.33
12.5	35	32	54	40.33
10	32	31	51	38.00 11:53
7.5	30	29	48	35.67
5	28	26	44	32.67
2.5	25	23	36	28.00
0	21	18	26.5	21.83
0	20	17	26	21.00

Pressure	Strain Gauge			Average Hour
0	20	17	26	21.00
2.5	20	17	27	21.33
5	21	18	31	23.33
7.5	23	21	36	26.67
10	25	24	39	29.33
12.5	27	26	45	32.67
15	30	27	48	35.00
20	34	31	54	39.67
25	37	35	59	43.67 12:06
30	41	38	64	47.67
35	46	44	71	53.67
40	54	52	81	62.33
40	55	53	83	63.67
40	55	54	83	64.00
40	56	54	84	64.67
40	56	54	84	64.67
40	56	54	84	64.67
35	56	54	84	64.67
30	55	53	82	63.33
25	53	52	80	61.67
20	51	49	77	59.00
15	48	46	72	55.33 12:19
12.5	47	44	69	53.33
10	44	42	65	50.33
7.5	42	40	61	47.67 12:26
5	39	36	55	43.33
2.5	35	32	46	37.67
0	32	25	36	31.00
0	31	24	35	30.00
0	31	24	35	30.00
2.5	31	24	37	30.67
5	31	26	41	32.67
7.5	33	30	46	36.33
10	35	32	50	39.00
12.5	37	34	55	42.00
15	40	37	59	45.33
20	44	40	65	49.67
25	47	44	71	54.00 12:33
30	50	47	75	57.33
35	53	51	81	61.67
40	57	55	86	66.00
50	70	69	103	80.67
50	71	70	105	82.00
50	71	70	105	82.00
50	71	70	105	82.00
40	71	70	104	81.67
35	69	69	102	80.00
30	67	67	99	77.67
25	65	65	96	75.33
20	60	62	92	71.33
15	57	61	86	68.00
12.5	55	59	82	65.33
10	52	56	78	62.00

Tab.A-4-8 Data Sheet of Plate-Jack Test Pit No.2 Depth 9m Perpendicular Left(2/2)

Pressure	Strain Gauge			Average Hour	
7.5	49	53	73	58.33	12:55
5	46	50	67	54.33	
2.5	41	45	59	48.33	
0	38	37	45	40.00	
0	37.5	35	44	38.83	
2.5	37.5	35	46	39.50	
5	38	37	51	42.00	
7.5	39	40	55	44.67	
10	40	42	59	47.00	
12.5	43	45	65	51.00	
15	45	47	68	53.33	
20	49	51	75	58.33	
25	54	55	81	63.33	
30	58	58	87	67.67	
35	62	63	93	72.67	13:08
40	66	67	99	77.33	
50	72	74	108	84.67	
60	84	89	122	98.33	13:16
60	86	91	124	100.33	
60	85	91	124	100.33	
60	86	91	124	100.33	
50	86	91	124	100.33	
40	84	85	120	97.33	
35	82	86	118	95.33	
30	80	84	115	93.00	
25	77	80	111	89.00	
20	75	77	106	86.00	
15	70	72	99	80.33	
12.5	68	70	95	77.67	
10	64	65	89	72.67	
7.5	61	62	83	68.67	
5	58	58	76	64.00	13:25
2.5	52	52	66	56.67	
0	48	43	54	48.33	
0	47	42	52	47.00	
2.5	47	42	54	47.67	
5	47	45	58	50.00	
7.5	47	47	63	52.33	
10	50	50	67	55.67	
12.5	52	53	72	59.00	
15	54	55	76	61.67	
20	59	59	84	67.33	
25	62	64	91	72.33	
30	67	68	98	77.67	
25	67	68	98	77.67	
20	65	67	95	75.67	
15	62	64	90	72.00	
12.5	60	63	88	70.33	
10	57	60	81	66.00	
7.5	55	58	77	63.33	
5	53	55	73	60.33	13:47
2.5	50	50	64	54.67	
0	46	42	53	47.00	

Data sheet was offered by ICE.

Tab.A-4-9 Data Sheet of Deformation Test of Drillhole PHELL18TP
10.3m (1/4)

Equipment : Goodman Jack 700kg/cm²
 Date : 1995.01.25
 Direction : Pararell to Rio Paquita
 Rock Species : Conglomerate
 Diameter : 76.20mm
 Polsson Ratio : 0.25
 Efficiency : 0.93

	Indicator Reading		Pressure(kgf/cm ²)	Diameter(mm)		Deformation(mm)		Deformation Average(mm)
	near	far		near	far	near	far	
0	-0.77	-0.32	0.00	75.59	76.02	0.00	0.00	0.000
50	-0.76	-0.32	3.52	75.60	76.02	0.01	0.00	0.004
100	-0.71	-0.32	7.04	75.64	76.02	0.05	0.00	0.026
150	-0.68	-0.32	10.56	75.67	76.02	0.08	0.00	0.039
200	-0.64	-0.31	14.08	75.70	76.03	0.11	0.01	0.060
250	-0.64	-0.31	14.08	75.70	76.03	0.11	0.01	0.060
150	-0.64	-0.32	10.56	75.70	76.02	0.11	0.00	0.056
100	-0.64	-0.32	7.04	75.70	76.02	0.11	0.00	0.056
50	-0.65	-0.33	3.52	75.69	76.01	0.10	-0.01	0.047
0	-0.66	-0.33	0.00	75.68	76.01	0.09	-0.01	0.043
0	-0.66	-0.33	0.00	75.68	76.01	0.09	-0.01	0.043
0	-0.66	-0.33	0.00	75.68	76.01	0.09	-0.01	0.043
50	-0.68	-0.33	3.52	75.68	76.01	0.09	-0.01	0.043
100	-0.65	-0.33	7.04	75.69	76.01	0.10	-0.01	0.047
200	-0.63	-0.32	14.08	75.71	76.02	0.12	0.00	0.060
300	-0.60	-0.31	21.13	75.73	76.03	0.15	0.01	0.077
400	-0.58	-0.30	28.17	75.77	76.04	0.18	0.02	0.099
450	-0.54	-0.29	31.69	75.79	76.04	0.20	0.03	0.112
500	-0.50	-0.28	35.21	75.82	76.05	0.23	0.04	0.134
500	-0.50	-0.28	35.21	75.82	76.05	0.23	0.04	0.134
450	-0.50	-0.29	31.69	75.82	76.04	0.23	0.03	0.129
400	-0.50	-0.29	28.17	75.82	76.04	0.23	0.03	0.129
300	-0.50	-0.30	21.13	75.82	76.04	0.23	0.02	0.125
200	-0.53	-0.31	14.08	75.79	76.03	0.21	0.01	0.108
100	-0.55	-0.33	7.04	75.78	76.01	0.19	-0.01	0.090
50	-0.57	-0.34	3.52	75.76	76.00	0.17	-0.02	0.077
0	-0.60	-0.35	0.00	75.73	75.99	0.15	-0.03	0.060
0	-0.60	-0.35	0.00	75.73	75.99	0.15	-0.03	0.060
50	-0.59	-0.35	3.52	75.74	75.99	0.15	-0.03	0.064
100	-0.58	-0.35	7.04	75.75	75.99	0.16	-0.03	0.069
200	-0.55	-0.34	14.08	75.78	76.00	0.19	-0.02	0.086
400	-0.50	-0.31	28.17	75.82	76.03	0.23	0.01	0.120
600	-0.46	-0.28	42.25	75.85	76.05	0.27	0.04	0.151
800	-0.43	-0.25	56.34	75.88	76.08	0.29	0.06	0.177
900	-0.41	-0.23	63.38	75.90	76.10	0.31	0.08	0.194
950	-0.40	-0.23	66.90	75.91	76.10	0.32	0.08	0.199
1000	-0.39	-0.21	70.42	75.91	76.12	0.33	0.10	0.212
1000	-0.39	-0.21	70.42	75.91	76.12	0.33	0.10	0.212
950	-0.39	-0.21	66.90	75.91	76.12	0.33	0.10	0.212
900	-0.39	-0.22	63.38	75.91	76.11	0.33	0.09	0.207
800	-0.39	-0.23	56.34	75.91	76.10	0.33	0.08	0.203

Tab.A-4-9 Data Sheet of Deformation Test of Drillhole PHLL18TP
10.3m (2/4)

Pressure(p.s.i.)	Indicator Reading		Pressure(kg/cm ²)	Diameter(mm)		Deformation(mm)		Deformation Average(mm)
	near	far		near	far	near	far	
600	-0.46	-0.25	42.25	75.91	76.08	0.32	0.06	0.190
400	-0.43	-0.28	28.17	75.88	76.05	0.29	0.04	0.164
200	-0.47	-0.32	14.08	75.85	76.02	0.26	0.00	0.129
100	-0.49	-0.34	7.04	75.83	76.00	0.24	-0.02	0.112
50	-0.51	-0.35	3.52	75.81	75.99	0.22	-0.03	0.099
0	-0.53	-0.36	0.00	75.79	75.98	0.21	-0.04	0.086
0	-0.53	-0.36	0.00	75.79	75.98	0.21	-0.04	0.086
0	-0.53	-0.36	0.00	75.79	75.98	0.21	-0.04	0.086
100	-0.52	-0.36	7.04	75.80	75.98	0.22	-0.04	0.090
200	-0.49	-0.34	14.08	75.83	76.00	0.24	-0.02	0.112
400	-0.46	-0.33	28.17	75.85	76.01	0.27	-0.01	0.129
800	-0.42	-0.28	42.25	75.89	76.05	0.30	0.04	0.168
800	-0.39	-0.25	56.34	75.91	76.08	0.33	0.06	0.194
1000	-0.37	-0.21	70.42	75.93	76.12	0.34	0.10	0.220
1200	-0.36	-0.19	84.51	75.94	76.13	0.35	0.11	0.233
1400	-0.34	-0.16	98.59	75.96	76.16	0.37	0.14	0.255
1600	-0.32	-0.12	112.68	75.97	76.19	0.39	0.18	0.282
1800	-0.31	-0.10	126.76	75.98	76.21	0.40	0.19	0.295
1900	-0.30	-0.08	133.80	75.99	76.23	0.40	0.21	0.308
2000	-0.29	-0.07	140.85	76.00	76.24	0.41	0.22	0.316
2000	-0.29	-0.07	140.85	76.00	76.24	0.41	0.22	0.316
1900	-0.29	-0.07	133.80	76.00	76.24	0.41	0.22	0.316
1800	-0.29	-0.07	126.76	76.00	76.24	0.41	0.22	0.316
1800	-0.29	-0.08	112.68	76.00	76.23	0.41	0.21	0.312
1400	-0.29	-0.11	98.59	76.00	76.20	0.41	0.18	0.299
1200	-0.30	-0.16	84.51	75.99	76.16	0.40	0.14	0.273
1000	-0.32	-0.16	70.42	75.97	76.16	0.39	0.14	0.264
800	-0.32	-0.23	56.34	75.97	76.10	0.39	0.08	0.233
800	-0.34	-0.23	42.25	75.96	76.10	0.37	0.06	0.224
400	-0.37	-0.27	28.17	75.93	76.06	0.34	0.04	0.194
200	-0.40	-0.30	14.08	75.91	76.04	0.32	0.02	0.168
100	-0.44	-0.33	7.04	75.87	76.01	0.28	-0.01	0.137
0	-0.47	-0.36	0.00	75.85	75.98	0.26	-0.04	0.111
0	-0.47	-0.36	0.00	75.85	75.98	0.26	-0.04	0.111
250	-0.41	-0.32	17.61	75.90	76.02	0.31	0.00	0.155
500	-0.39	-0.30	35.21	75.91	76.04	0.33	0.02	0.172
1000	-0.33	-0.21	70.42	75.97	76.12	0.38	0.10	0.238
1500	-0.30	-0.13	105.63	75.99	76.19	0.40	0.17	0.286
2000	-0.27	-0.06	140.85	76.02	76.25	0.43	0.23	0.329
2500	-0.25	-0.02	176.06	76.04	76.28	0.45	0.26	0.356
2750	-0.23	-0.02	193.66	76.05	76.28	0.46	0.26	0.364
3000	0.21	-0.02	211.27	76.07	76.28	0.48	0.26	0.373
3000	0.21	-0.02	211.27	76.07	76.28	0.48	0.26	0.373
2750	0.21	-0.01	193.66	76.07	76.29	0.48	0.27	0.377
2500	-0.21	-0.01	176.06	76.07	76.29	0.48	0.27	0.377
2000	-0.22	-0.03	140.85	76.06	76.27	0.47	0.26	0.364
1500	-0.24	-0.09	105.63	76.04	76.22	0.46	0.20	0.329
1000	-0.28	-0.17	70.42	76.01	76.15	0.42	0.13	0.277
500	-0.33	-0.25	35.21	75.97	76.08	0.38	0.06	0.220
250	-0.33	-0.30	17.61	75.97	76.04	0.38	0.02	0.198
0	-0.43	-0.35	0.00	75.88	75.99	0.29	-0.03	0.133
0	-0.43	-0.35	0.00	75.88	75.99	0.29	-0.03	0.133
0	-0.43	-0.35	0.00	75.88	75.99	0.29	-0.03	0.133
250	-0.39	-0.33	17.61	75.91	76.01	0.33	-0.01	0.159
500	-0.36	-0.29	35.21	75.94	76.04	0.35	0.03	0.189
1000	-0.31	-0.21	70.42	75.98	76.12	0.40	0.10	0.266
1500	-0.27	-0.13	105.63	76.02	76.19	0.43	0.17	0.299
2000	-0.24	-0.05	140.85	76.04	76.26	0.46	0.24	0.347

Tab.A-4-9 Data Sheet of Deformation Test of Drillhole PHLL18TP
10.3m (3/4)

Pressure(p.s.i.)	Indicator Reading		Pressure(kg/cm2)	Diameter(mm)		Deformation(mm)		Deformation Average(mm)
	near	far		near	far	near	far	
2500	-0.22	-0.01	176.06	76.06	76.29	0.47	0.27	0.373
3000	-0.19	0.02	211.27	76.09	76.32	0.50	0.30	0.399
3500	-0.16	0.04	246.48	76.11	76.35	0.52	0.33	0.429
3750	-0.14	0.04	264.08	76.13	76.37	0.54	0.35	0.447
4000	-0.13	0.10	281.69	76.14	76.39	0.55	0.37	0.460
4000	-0.13	0.10	281.69	76.14	76.39	0.55	0.37	0.460
3750	-0.13	0.10	264.08	76.14	76.39	0.55	0.37	0.460
3500	-0.13	0.10	246.48	76.14	76.39	0.55	0.37	0.459
3000	-0.13	0.07	211.27	76.14	76.36	0.55	0.34	0.447
2500	-0.14	0.03	176.06	76.13	76.33	0.54	0.31	0.425
2000	-0.17	0.00	140.85	76.10	76.20	0.52	0.28	0.399
1500	-0.22	-0.10	105.63	76.05	76.21	0.47	0.19	0.333
1000	-0.25	-0.16	70.42	76.04	76.16	0.45	0.14	0.291
500	-0.29	-0.24	35.21	76.00	76.09	0.41	0.07	0.242
250	-0.33	-0.29	17.61	75.97	76.04	0.38	0.03	0.202
0	-0.41	-0.35	0.00	75.90	75.99	0.31	-0.03	0.142
0	-0.41	-0.35	0.00	75.90	75.99	0.31	-0.03	0.142
0	-0.41	-0.35	0.00	75.90	75.99	0.31	-0.03	0.142
500	-0.33	-0.28	35.21	75.97	76.05	0.38	0.04	0.207
1000	-0.28	-0.20	70.42	76.01	76.12	0.42	0.11	0.264
2000	-0.21	-0.05	140.85	76.07	76.26	0.48	0.24	0.360
3000	-0.16	0.04	211.27	76.11	76.34	0.52	0.32	0.421
4000	-0.10	0.11	281.69	76.16	76.40	0.58	0.38	0.477
4500	-0.07	0.14	316.90	76.19	76.42	0.60	0.40	0.503
5000	-0.03	0.19	352.11	76.22	76.47	0.64	0.45	0.543
5000	-0.02	0.19	352.11	76.23	76.47	0.64	0.45	0.547
5000	-0.03	0.20	352.11	76.22	76.48	0.64	0.46	0.547
5300	-0.03	0.22	352.11	76.22	76.49	0.64	0.48	0.556
5300	-0.05	0.22	352.11	76.21	76.49	0.62	0.48	0.547
5000	-0.06	0.22	352.11	76.20	76.49	0.61	0.48	0.543
4500	-0.06	0.22	316.90	76.20	76.49	0.61	0.48	0.543
4000	-0.06	0.20	281.69	76.20	76.48	0.61	0.46	0.534
3000	-0.06	0.11	211.27	76.20	76.40	0.61	0.38	0.495
2000	-0.06	0.04	140.85	76.20	76.34	0.61	0.32	0.464
1000	-0.16	-0.12	70.42	76.11	76.19	0.52	0.18	0.350
500	-0.21	-0.2	35.21	76.07	76.12	0.48	0.11	0.294
250	-0.26	-0.26	17.61	76.03	76.07	0.44	0.05	0.246
0	-0.35	-0.33	0.00	75.95	76.01	0.36	-0.01	0.176
0	-0.34	-0.33	0.00	75.96	76.01	0.37	-0.01	0.180
0	-0.34	-0.33	0.00	75.96	76.01	0.37	-0.01	0.180
0	-0.34	-0.33	0.00	75.96	76.01	0.37	-0.01	0.180
100	-0.33	-0.32	7.04	75.97	76.02	0.38	0.00	0.189
200	-0.3	-0.3	14.08	75.99	76.04	0.40	0.02	0.211
400	-0.28	-0.28	28.17	76.01	76.05	0.42	0.04	0.228
600	-0.25	-0.24	42.25	76.04	76.09	0.45	0.07	0.259
800	-0.23	-0.2	56.34	76.05	76.12	0.46	0.11	0.285
1000	-0.22	-0.17	70.42	76.06	76.15	0.47	0.13	0.302
1200	-0.20	-0.14	84.51	76.08	76.18	0.49	0.16	0.324
1400	-0.18	-0.1	98.59	76.10	76.21	0.51	0.19	0.351
1800	-0.17	-0.07	112.63	76.10	76.24	0.52	0.22	0.368
1800	-0.15	-0.03	126.76	76.12	76.27	0.53	0.26	0.394
2300	-0.14	-0.01	140.85	76.13	76.29	0.54	0.27	0.407
2200	-0.12	0.01	154.93	76.15	76.31	0.56	0.29	0.425
2400	-0.10	0.03	169.01	76.16	76.33	0.58	0.31	0.442
2450	0.10	0.03	172.54	76.16	76.33	0.58	0.31	0.442
2500	-0.10	0.04	176.06	76.16	76.34	0.58	0.32	0.447

Tab.A-4-9 Data Sheet of Deformation Test of Drillhole PHLL18TP
10.3m (4/4)

Pressure(p.s.i.)	Indicator Reading		Pressure(kgf/cm ²)	Diameter(mm)		Deformation(mm)		Deformation Average(mm)
	near	far		near	far	near	far	
2450	-0.10	0.04	172.54	76.16	76.34	0.58	0.32	0.447
2400	-0.10	0.03	169.01	76.16	76.33	0.56	0.31	0.442
2200	-0.10	0.02	154.93	76.16	76.32	0.58	0.30	0.438
2000	-0.10	0.00	140.85	76.16	76.30	0.58	0.28	0.429
1800	-0.12	-0.02	126.76	76.15	76.28	0.56	0.26	0.411
1600	-0.13	-0.03	112.68	76.14	76.27	0.55	0.26	0.403
1400	-0.14	-0.07	98.59	76.13	76.24	0.54	0.22	0.381
1200	-0.17	-0.12	84.51	76.10	76.19	0.52	0.18	0.346
1000	-0.18	-0.15	70.42	76.10	76.17	0.51	0.15	0.328
800	-0.20	-0.18	56.34	76.08	76.14	0.49	0.12	0.307
600	-0.22	-0.20	42.25	76.06	76.12	0.47	0.11	0.289
400	-0.25	-0.24	28.17	76.04	76.09	0.45	0.07	0.259
200	-0.29	-0.29	14.08	76.00	76.04	0.41	0.03	0.220
100	-0.32	-0.32	7.04	75.97	76.02	0.39	0.00	0.194
0	-0.36	-0.35	0.00	75.94	75.99	0.35	-0.03	0.163

Data sheet was offered by ICE.

**Tab.A-4-10 Data Sheet of Deformation Test of Drillhole PHLL18TP
10.5m (1/3)**

Equipment : Goodman Jack 700kg/cm²
 Date : 1995.01.25
 Direction : Perpendicular to Rio Paquita
 Rock Species : Conglomerate
 Diameter : 76.20mm
 Poisson Ratio : 0.25
 Efficiency : 0.93

	Pressure(p.s.i.)		Pressure(kgf/cm ²)	Diameter(mm)		Deformation(mm)		Deformation Average(mm)
	near	far		near	far	near	far	
0	0.52	-0.65	0.00	76.70	75.73	0.00	0.00	0.000
50	0.54	-0.68	3.52	76.71	75.70	0.02	-0.03	-0.005
100	0.54	-0.68	7.04	76.71	75.70	0.02	-0.03	-0.005
150	0.57	-0.67	10.56	76.74	75.71	0.04	-0.02	0.013
200	0.60	-0.67	14.08	76.77	75.71	0.07	-0.02	0.026
200	0.60	-0.67	14.08	76.77	75.71	0.07	-0.02	0.026
150	0.60	-0.67	10.56	76.77	75.71	0.07	-0.02	0.026
100	0.60	-0.67	7.04	76.77	75.71	0.07	-0.02	0.026
50	0.60	-0.68	3.52	76.77	75.70	0.07	-0.03	0.021
0	0.60	-0.70	0.00	76.77	75.68	0.07	-0.04	0.012
0	0.60	-0.70	0.00	76.77	75.68	0.07	-0.04	0.012
0	0.60	-0.70	0.00	76.77	75.68	0.07	-0.04	0.012
0	0.60	-0.70	0.00	76.77	75.68	0.07	-0.04	0.012
50	0.60	-0.70	3.52	76.77	75.68	0.07	-0.04	0.012
100	0.60	-0.69	7.04	76.77	75.69	0.07	-0.04	0.017
200	0.60	-0.67	14.08	76.77	75.71	0.07	-0.02	0.026
300	0.65	-0.68	21.13	76.81	75.72	0.11	-0.01	0.052
400	0.70	-0.65	28.17	76.85	75.73	0.15	0.00	0.077
450	0.72	-0.64	31.69	76.87	75.74	0.17	0.01	0.090
500	0.75	-0.64	35.21	76.90	75.74	0.20	0.01	0.103
500	0.75	-0.64	35.21	76.90	75.74	0.20	0.01	0.103
450	0.75	-0.64	31.69	76.90	75.74	0.20	0.01	0.103
400	0.75	-0.64	28.17	76.90	75.74	0.20	0.01	0.103
300	0.75	-0.65	21.13	76.90	75.73	0.20	0.00	0.099
200	0.75	-0.67	14.08	76.90	75.71	0.20	-0.02	0.090
100	0.71	-0.69	7.04	76.85	75.69	0.16	-0.04	0.064
50	0.68	-0.70	3.52	76.83	75.68	0.14	-0.04	0.047
0	0.66	-0.71	0.00	76.82	75.68	0.12	-0.05	0.034
0	0.66	-0.71	0.00	76.82	75.68	0.12	-0.05	0.034
0	0.66	-0.71	0.00	76.82	75.68	0.12	-0.05	0.034
0	0.66	-0.71	0.00	76.82	75.68	0.12	-0.05	0.034
50	0.66	-0.71	3.52	76.82	75.68	0.12	-0.05	0.034
100	0.66	-0.70	7.04	76.82	75.68	0.12	-0.04	0.038
200	0.67	-0.68	14.08	76.83	75.70	0.13	-0.03	0.051
400	0.72	-0.66	28.17	76.87	75.72	0.17	-0.01	0.082
600	0.79	-0.63	42.25	76.93	75.75	0.23	0.02	0.125
800	0.85	-0.61	56.34	76.98	75.76	0.28	0.04	0.160
900	0.88	-0.60	63.38	77.01	75.77	0.31	0.04	0.177
950	0.90	-0.59	66.90	77.02	75.78	0.33	0.05	0.190
1000	0.91	-0.58	70.42	77.03	75.79	0.34	0.06	0.199
1000	0.91	-0.58	70.42	77.03	75.79	0.34	0.06	0.199
950	0.91	-0.58	66.90	77.03	75.79	0.34	0.06	0.199
900	0.91	-0.58	63.38	77.03	75.79	0.34	0.06	0.199
800	0.91	-0.59	56.34	77.03	75.78	0.34	0.05	0.194
600	0.90	-0.62	42.25	77.02	75.75	0.33	0.03	0.177

Data sheet was offered by ICE.

Tab.A-4-10 Data Sheet of Deformation Test of Drillhole PHELL18TP
10.5m (2/3)

Pressure(p.s.i.)	Indicator Reading		Pressure(kg/cm2)	Diameter(mm)		Deformation(mm)		Deformation Average(mm)
	near	far		near	far	near	far	
400	0.87	-0.64	2817	77.00	75.74	0.30	0.01	0.155
200	0.81	-0.67	14.08	76.95	75.71	0.25	-0.02	0.116
100	0.78	-0.69	7.04	76.92	75.69	0.22	-0.04	0.094
50	0.75	-0.70	3.52	76.90	75.68	0.20	-0.04	0.077
0	0.72	-0.71	0.00	76.87	75.68	0.17	-0.05	0.060
0	0.72	-0.71	0.00	76.87	75.68	0.17	-0.05	0.060
0	0.72	-0.71	0.00	76.87	75.68	0.17	-0.05	0.060
100	0.72	-0.71	7.04	76.87	75.68	0.17	-0.05	0.060
200	0.72	-0.69	14.08	76.87	75.69	0.17	-0.04	0.060
400	0.73	-0.66	28.17	76.88	75.72	0.16	-0.01	0.086
800	0.83	-0.64	42.25	76.96	75.74	0.27	0.01	0.138
800	0.89	-0.61	56.34	77.02	75.76	0.32	0.04	0.177
1000	0.92	-0.59	70.42	77.04	75.78	0.34	0.05	0.198
1200	0.97	-0.56	84.51	77.08	75.81	0.39	0.08	0.233
1400	1.01	-0.55	98.59	77.12	75.82	0.42	0.09	0.255
1600	1.06	-0.53	112.68	77.16	75.83	0.46	0.11	0.285
1800	1.10	-0.52	126.76	77.20	75.84	0.50	0.11	0.307
1900	1.13	-0.52	133.80	77.22	75.84	0.52	0.11	0.320
2000	1.16	-0.51	140.85	77.25	75.85	0.55	0.12	0.337
2000	1.16	-0.51	140.85	77.25	75.85	0.55	0.12	0.337
1900	1.16	-0.51	133.80	77.25	75.85	0.55	0.12	0.337
1800	1.16	-0.51	126.76	77.25	75.85	0.55	0.12	0.337
1800	1.16	-0.51	112.68	77.25	75.85	0.55	0.12	0.337
1400	1.16	-0.51	98.59	77.25	75.85	0.55	0.12	0.337
1200	1.16	-0.53	84.51	77.25	75.83	0.55	0.11	0.328
1000	1.15	-0.57	70.42	77.24	75.80	0.54	0.07	0.306
800	1.11	-0.61	56.34	77.20	75.76	0.51	0.04	0.271
800	1.08	-0.63	42.25	77.18	75.75	0.48	0.02	0.250
400	1.01	-0.67	28.17	77.12	75.71	0.42	-0.02	0.202
200	0.93	-0.70	14.08	77.05	75.68	0.35	-0.04	0.154
100	0.88	-0.72	7.04	77.01	75.67	0.31	-0.06	0.124
0	0.83	-0.73	0.00	76.96	75.66	0.27	-0.07	0.098
0	0.83	-0.73	0.00	76.96	75.66	0.27	-0.07	0.098
0	0.83	-0.73	0.00	76.96	75.66	0.27	-0.07	0.098
250	0.83	-0.71	17.61	76.96	75.68	0.27	-0.05	0.107
500	0.89	-0.68	35.21	77.02	75.70	0.32	-0.03	0.146
1000	1.03	-0.62	70.42	77.14	75.75	0.44	0.03	0.233
1500	1.13	-0.57	105.63	77.22	75.80	0.52	0.07	0.298
2000	1.20	-0.52	140.85	77.28	75.84	0.58	0.11	0.350
2500	1.26	-0.47	176.06	77.33	75.89	0.64	0.16	0.397
2750	1.30	-0.45	193.66	77.37	75.90	0.67	0.18	0.423
3000	1.33	-0.44	211.27	77.39	75.91	0.70	0.18	0.441
3000	1.34	-0.44	211.27	77.40	75.91	0.71	0.18	0.445
3000	1.34	-0.44	211.27	77.40	75.91	0.71	0.18	0.445
2750	1.34	-0.44	193.66	77.40	75.91	0.71	0.18	0.445
2500	1.34	-0.44	176.06	77.40	75.91	0.71	0.18	0.445
2000	1.34	-0.47	140.85	77.40	75.89	0.71	0.16	0.432
1500	1.32	-0.53	105.63	77.39	75.83	0.69	0.11	0.397
1000	1.30	-0.58	70.42	77.37	75.79	0.67	0.06	0.366
500	1.16	-0.68	35.21	77.25	75.70	0.55	-0.03	0.262
250	1.06	-0.72	17.61	77.16	75.67	0.46	-0.06	0.201
0	0.95	-0.75	0.00	77.07	75.64	0.37	-0.09	0.141
0	0.95	-0.75	0.00	77.07	75.64	0.37	-0.09	0.141
0	0.95	-0.75	0.00	77.07	75.64	0.37	-0.09	0.141
250	0.95	-0.74	17.61	77.07	75.65	0.37	-0.08	0.145
500	0.99	-0.70	35.21	77.10	75.68	0.40	-0.04	0.180
1000	1.13	-0.64	70.42	77.22	75.74	0.52	0.01	0.267
1500	1.23	-0.59	105.63	77.31	75.78	0.61	0.05	0.332
2000	1.29	-0.53	140.85	77.36	75.83	0.66	0.11	0.384
2500	1.33	-0.49	176.06	77.39	75.87	0.70	0.14	0.419
3000	1.37	-0.44	211.27	77.43	75.91	0.73	0.18	0.458
3500	1.40	-0.41	246.48	77.45	75.94	0.76	0.21	0.484
3750	1.41	-0.39	264.08	77.46	75.96	0.77	0.23	0.497
4000	1.43	-0.37	281.69	77.48	75.97	0.78	0.25	0.513
4000	1.44	-0.37	281.69	77.49	75.97	0.79	0.25	0.521
4000	1.44	-0.37	281.69	77.49	75.97	0.79	0.25	0.519

Tab.A-4-10 Data Sheet of Deformation Test of Drillhole PHELL18TP

10.5m (3/3)

Pressure(p.s.i.)	Indicator Reading		Pressure(kgf/cm ²)	Diameter(mm)		Deformation(mm)		Deformation Average(mm)
	near	far		near	far	near	far	
3750	1.44	-0.37	264.08	77.49	75.97	0.79	0.25	0.519
3500	1.44	-0.37	244.48	77.49	75.97	0.79	0.25	0.519
3000	1.44	-0.39	211.27	77.49	75.96	0.79	0.23	0.510
2500	1.43	-0.43	176.06	77.48	75.92	0.78	0.19	0.468
2000	1.42	-0.47	140.85	77.47	75.89	0.77	0.16	0.466
1500	1.40	-0.54	105.63	77.45	75.82	0.76	0.10	0.427
1000	1.36	-0.60	70.42	77.42	75.77	0.72	0.04	0.363
500	1.22	-0.70	35.21	77.30	75.68	0.60	-0.04	0.279
250	1.15	-0.73	17.61	77.24	75.66	0.54	-0.07	0.236
0	0.99	-0.76	0.00	77.10	75.63	0.40	-0.10	0.154
0	0.99	-0.76	0.00	77.10	75.63	0.40	-0.10	0.154
0	0.99	-0.76	0.00	77.10	75.63	0.40	-0.10	0.154
500	1.04	-0.71	35.21	77.14	75.68	0.45	-0.05	0.197
1000	1.19	-0.65	70.42	77.27	75.73	0.58	0.00	0.288
2000	1.34	-0.53	140.85	77.40	75.83	0.71	0.11	0.405
3000	1.4	-0.44	211.27	77.45	75.91	0.76	0.18	0.471
4000	1.44	-0.37	281.69	77.49	75.97	0.79	0.25	0.519
4500	1.46	-0.34	316.90	77.51	76.00	0.81	0.27	0.541
5000	1.47	-0.31	352.11	77.51	76.03	0.82	0.30	0.558
5000	1.48	-0.31	352.11	77.52	76.03	0.83	0.30	0.562
5000	1.43	-0.31	352.11	77.52	76.03	0.83	0.30	0.562
4500	1.48	-0.31	316.90	77.52	76.03	0.83	0.30	0.562
4000	1.48	-0.32	281.69	77.52	76.02	0.83	0.29	0.558
3000	1.47	-0.37	211.27	77.51	75.97	0.82	0.25	0.532
2000	1.45	-0.47	140.85	77.50	75.89	0.80	0.16	0.479
1000	1.33	-0.8	70.42	77.45	75.77	0.75	0.04	0.396
500	1.31	-0.68	35.21	77.38	75.70	0.68	-0.03	0.327
0	1.06	-0.73	0.00	77.16	75.66	0.46	-0.07	0.197
0	1.05	-0.73	0.00	77.15	75.66	0.46	-0.07	0.193
0	1.05	-0.73	0.00	77.15	75.66	0.46	-0.07	0.193
100	1.05	-0.73	7.04	77.15	75.66	0.46	-0.07	0.193
200	1.05	-0.75	14.08	77.15	75.64	0.46	-0.09	0.184
400	1.06	-0.72	28.17	77.16	75.67	0.46	-0.06	0.201
600	1.13	-0.71	42.25	77.22	75.68	0.52	-0.05	0.236
800	1.19	-0.69	56.34	77.27	75.69	0.58	-0.04	0.270
1000	1.23	-0.67	70.42	77.31	75.71	0.61	-0.02	0.297
1200	1.28	-0.64	84.51	77.35	75.74	0.65	0.01	0.331
1400	1.30	-0.62	98.59	77.37	75.75	0.67	0.03	0.349
1600	1.33	-0.59	112.68	77.39	75.78	0.70	0.05	0.375
1800	1.35	-0.57	126.76	77.41	75.80	0.71	0.07	0.392
2000	1.37	-0.54	140.85	77.43	75.82	0.73	0.10	0.414
2200	1.38	-0.52	154.93	77.44	75.84	0.74	0.11	0.427
2400	1.39	-0.5	169.01	77.45	75.86	0.75	0.13	0.440
2450	1.40	-0.49	172.54	77.45	75.87	0.76	0.14	0.449
2500	1.40	-0.48	176.06	77.45	75.88	0.76	0.15	0.453
2450	1.40	-0.48	172.54	77.45	75.88	0.76	0.15	0.453
2400	1.40	-0.48	169.01	77.45	75.88	0.76	0.15	0.453
2200	1.40	-0.48	154.93	77.45	75.88	0.76	0.15	0.453
2000	1.40	-0.50	140.85	77.45	75.86	0.76	0.13	0.444
1800	1.40	-0.52	126.76	77.45	75.84	0.76	0.11	0.436
1600	1.40	-0.53	112.68	77.45	75.83	0.76	0.11	0.431
1400	1.40	-0.55	98.59	77.45	75.82	0.76	0.09	0.422
1200	1.39	-0.58	84.51	77.45	75.79	0.75	0.08	0.405
1000	1.38	-0.60	70.42	77.44	75.77	0.74	0.04	0.392
800	1.35	-0.84	56.34	77.41	75.74	0.71	0.01	0.361
600	1.32	-0.68	42.25	77.39	75.70	0.69	-0.03	0.331
400	1.25	-0.71	28.17	77.33	75.68	0.63	-0.05	0.288
200	1.20	-0.73	14.08	77.28	75.66	0.58	-0.07	0.257
100	1.12	-0.75	7.04	77.21	75.64	0.52	-0.09	0.214
0	1.06	-0.76	0.00	77.16	75.63	0.46	-0.10	0.184

**Tab.A-4-11 Data Sheet of Deformation Test of Drillhole PHLL18TP
16.1m (1/3)**

Equipment : Goodman Jack 700kgf/cm2
 Date : 1995.02.23
 Direction : Pararell to Rio Paquita
 Rock Species : Conglomerate
 Diameter : 76.20mm
 Poisson Ratio : 0.25
 Efficiency : 0.93

Pressure(p.s.i.)	Indicator Reading		Pressure(kgf/cm2)	Diameter(mm)		Deformation(mm)		Deformation Average(mm)
	near	far		near	far	near	far	
0	-0.05	0.04	0.00	76.21	76.34	0.00	0.00	0.000
50	-0.04	0.04	3.52	76.22	76.34	0.01	0.00	0.004
100	-0.03	0.04	7.04	76.22	76.34	0.02	0.00	0.009
150	-0.02	0.04	10.56	76.23	76.34	0.03	0.00	0.013
200	-0.01	0.04	14.08	76.24	76.34	0.03	0.00	0.017
200	-0.01	0.04	14.08	76.24	76.34	0.03	0.00	0.017
150	-0.01	0.04	10.56	76.24	76.34	0.03	0.00	0.017
100	-0.02	0.04	7.04	76.23	76.34	0.03	0.00	0.013
50	-0.03	0.04	3.52	76.22	76.34	0.02	0.00	0.009
0	-0.04	0.04	0.00	76.22	76.34	0.01	0.00	0.004
0	-0.04	0.04	0.00	76.22	76.34	0.01	0.00	0.004
0	-0.04	0.04	0.00	76.22	76.34	0.01	0.00	0.004
50	-0.04	0.04	3.52	76.22	76.34	0.01	0.00	0.004
100	-0.03	0.04	7.04	76.22	76.34	0.02	0.00	0.009
200	-0.02	0.04	14.08	76.23	76.34	0.03	0.00	0.013
300	-0.01	0.04	21.13	76.24	76.34	0.03	0.00	0.017
400	0.00	0.05	28.17	76.25	76.34	0.04	0.01	0.026
450	0.02	0.05	31.69	76.27	76.34	0.06	0.01	0.035
500	0.03	0.05	35.21	76.28	76.34	0.07	0.01	0.039
500	0.03	0.05	35.21	76.28	76.34	0.07	0.01	0.039
450	0.03	0.05	31.69	76.28	76.34	0.07	0.01	0.039
400	0.02	0.05	28.17	76.27	76.34	0.06	0.01	0.035
300	0.00	0.04	21.13	76.25	76.34	0.04	0.00	0.022
200	0.00	0.04	14.08	76.25	76.34	0.04	0.00	0.022
100	-0.01	0.04	7.04	76.23	76.34	0.03	0.00	0.017
50	-0.02	0.04	3.52	76.23	76.34	0.03	0.00	0.013
0	-0.03	0.04	0.00	76.22	76.34	0.02	0.00	0.009
0	-0.03	0.04	0.00	76.22	76.34	0.02	0.00	0.009
0	-0.03	0.04	0.00	76.22	76.34	0.02	0.00	0.009
100	-0.02	0.04	7.04	76.23	76.34	0.03	0.00	0.013
200	0.00	0.05	14.08	76.25	76.34	0.04	0.01	0.026
400	0.02	0.05	28.17	76.27	76.34	0.06	0.01	0.035
600	0.05	0.05	42.25	76.29	76.34	0.09	0.01	0.047
800	0.07	0.06	56.34	76.31	76.35	0.10	0.02	0.060
900	0.07	0.07	63.38	76.31	76.36	0.10	0.03	0.065
1000	0.08	0.07	70.42	76.32	76.36	0.11	0.03	0.069
1000	0.08	0.07	70.42	76.32	76.36	0.11	0.03	0.069
900	0.08	0.07	63.38	76.32	76.36	0.11	0.03	0.069
800	0.07	0.07	56.34	76.31	76.36	0.10	0.03	0.063
600	0.06	0.06	42.25	76.30	76.35	0.09	0.02	0.054
400	0.04	0.05	28.17	76.28	76.34	0.08	0.01	0.043
200	0.01	0.05	14.08	76.26	76.34	0.05	0.01	0.030
100	-0.01	0.05	7.04	76.24	76.34	0.03	0.01	0.022
0	-0.03	0.05	0.00	76.22	76.34	0.02	0.01	0.013

Tab.A-4-11 Data Sheet of Deformation Test of Drillhole PHLL18TP

16.1m (2/3)

Pressure(p.s.i.)	Indicator Reading		Pressure(kgf/cm ²)	Diameter(mm)		Deformation(mm)		Deformation Average(mm)
	near	far		near	far	near	far	
0	-0.03	0.05	0.00	76.22	76.34	0.02	0.01	0.013
0	-0.03	0.05	0.00	76.22	76.34	0.02	0.01	0.013
100	-0.02	0.05	7.04	76.23	76.34	0.03	0.01	0.017
200	0.00	0.05	14.08	76.25	76.34	0.04	0.01	0.026
400	0.02	0.05	28.17	76.27	76.34	0.06	0.01	0.035
800	0.05	0.06	42.25	76.29	76.35	0.09	0.02	0.052
800	0.07	0.06	56.34	76.31	76.35	0.10	0.02	0.060
1000	0.08	0.07	70.42	76.32	76.36	0.11	0.03	0.069
1200	0.10	0.06	84.51	76.34	76.37	0.13	0.04	0.082
1400	0.11	0.09	98.59	76.34	76.38	0.14	0.04	0.091
1600	0.13	0.10	112.68	76.36	76.39	0.15	0.05	0.104
1800	0.13	0.11	126.76	76.36	76.40	0.15	0.06	0.108
1900	0.14	0.11	133.80	76.37	76.40	0.16	0.06	0.113
2000	0.14	0.12	140.85	76.37	76.41	0.16	0.07	0.117
2000	0.14	0.12	140.85	76.37	76.41	0.16	0.07	0.117
1900	0.14	0.12	133.80	76.37	76.41	0.16	0.07	0.117
1500	0.14	0.11	126.76	76.37	76.40	0.16	0.06	0.113
1800	0.13	0.11	112.68	76.36	76.40	0.15	0.06	0.108
1400	0.12	0.10	98.59	76.35	76.39	0.15	0.05	0.099
1200	0.11	0.09	84.51	76.34	76.38	0.14	0.04	0.091
1000	0.10	0.08	70.42	76.34	76.37	0.13	0.04	0.082
800	0.08	0.07	56.34	76.32	76.36	0.11	0.03	0.069
800	0.07	0.07	42.25	76.31	76.35	0.10	0.03	0.065
400	0.04	0.06	28.17	76.28	76.35	0.08	0.02	0.048
200	0.01	0.06	14.08	76.26	76.35	0.05	0.02	0.035
100	0.00	0.06	7.04	76.25	76.35	0.04	0.02	0.030
0	-0.03	0.06	0.00	76.22	76.35	0.02	0.02	0.017
0	-0.03	0.06	0.00	76.22	76.35	0.02	0.02	0.017
0	-0.03	0.06	0.00	76.22	76.35	0.02	0.02	0.017
250	0.01	0.06	17.61	76.26	76.35	0.05	0.02	0.035
500	0.05	0.06	35.21	76.29	76.35	0.09	0.02	0.052
1000	0.09	0.08	70.42	76.33	76.37	0.12	0.04	0.078
1500	0.12	0.10	105.63	76.35	76.39	0.15	0.05	0.099
2000	0.14	0.12	140.85	76.37	76.41	0.16	0.07	0.117
2500	0.16	0.13	176.06	76.39	76.41	0.18	0.08	0.130
2750	0.17	0.14	193.66	76.40	76.42	0.19	0.09	0.139
3000	0.18	0.15	211.27	76.40	76.43	0.20	0.10	0.147
3000	0.18	0.15	211.27	76.40	76.43	0.20	0.10	0.147
2750	0.18	0.15	193.66	76.40	76.43	0.20	0.10	0.147
2500	0.17	0.14	176.06	76.40	76.42	0.19	0.09	0.139
2000	0.16	0.13	140.85	76.39	76.41	0.18	0.08	0.130
1500	0.14	0.11	105.63	76.37	76.40	0.16	0.06	0.113
1000	0.11	0.09	70.42	76.34	76.38	0.14	0.04	0.091
500	0.07	0.07	35.21	76.31	76.36	0.10	0.03	0.065
250	0.03	0.07	17.61	76.28	76.36	0.07	0.03	0.048
0	-0.02	0.06	0.00	76.23	76.35	0.03	0.02	0.022
0	-0.02	0.06	0.00	76.23	76.35	0.03	0.02	0.022
0	-0.01	0.06	0.00	76.24	76.35	0.03	0.02	0.026
250	0.02	0.07	17.61	76.27	76.36	0.06	0.03	0.043
500	0.05	0.07	35.21	76.29	76.36	0.09	0.03	0.056
1000	0.10	0.09	70.42	76.34	76.38	0.13	0.04	0.087
1500	0.13	0.11	105.63	76.36	76.40	0.15	0.06	0.108
2000	0.15	0.12	140.85	76.38	76.41	0.17	0.07	0.121
2500	0.17	0.14	176.06	76.40	76.42	0.19	0.09	0.139
3000	0.18	0.15	211.27	76.40	76.43	0.20	0.10	0.147
3500	0.20	0.17	246.43	76.42	76.45	0.22	0.11	0.165
3750	0.21	0.18	264.08	76.43	76.46	0.22	0.12	0.173
4000	0.22	0.19	281.69	76.44	76.47	0.23	0.13	0.182
4000	0.22	0.19	281.69	76.44	76.47	0.23	0.13	0.182
3750	0.22	0.19	264.08	76.44	76.47	0.23	0.13	0.182
3500	0.21	0.18	246.43	76.43	76.46	0.23	0.12	0.174
3000	0.20	0.16	211.27	76.42	76.44	0.22	0.11	0.160
2500	0.19	0.15	176.06	76.41	76.43	0.21	0.10	0.152
2000	0.17	0.14	140.85	76.40	76.42	0.19	0.09	0.139
1500	0.14	0.12	105.63	76.37	76.41	0.16	0.07	0.117

Tab.A-4-11 Data Sheet of Deformation Test of Drillhole PHL18TP
16.1m (3/3)

Pressure(p.s.i.)	Indicator Reading		Pressure(kg/cm ²)	Diameter(mm)		Deformation(mm)		Deformation Average(mm)
	near	far		near	far	near	far	
1000	0.12	0.10	70.42	76.35	76.39	0.15	0.03	0.089
500	0.07	0.08	35.21	76.31	76.37	0.10	0.04	0.089
250	0.02	0.07	17.61	76.27	76.36	0.06	0.03	0.043
0	-0.01	0.07	0.00	76.24	76.36	0.03	0.03	0.030
0	-0.01	0.07	0.00	76.24	76.36	0.03	0.03	0.030
0	-0.01	0.07	0.00	76.24	76.36	0.03	0.03	0.030
500	0.05	0.07	35.21	76.29	76.36	0.09	0.03	0.056
1000	0.10	0.09	70.42	76.34	76.38	0.13	0.04	0.087
2000	0.18	0.13	140.85	76.39	76.41	0.18	0.08	0.130
3000	0.19	0.16	211.27	76.41	76.44	0.21	0.11	0.156
4000	0.22	0.19	281.69	76.44	76.47	0.23	0.13	0.182
4500	0.23	0.20	316.90	76.45	76.48	0.24	0.14	0.191
5000	0.25	0.22	352.11	76.47	76.49	0.26	0.16	0.208
5000	0.25	0.22	352.11	76.47	76.49	0.26	0.16	0.208
4500	0.25	0.22	316.90	76.47	76.49	0.26	0.16	0.208
4000	0.24	0.21	281.69	76.46	76.48	0.25	0.15	0.200
3000	0.22	0.20	211.27	76.44	76.48	0.23	0.14	0.187
2000	0.18	0.18	140.85	76.40	76.46	0.20	0.12	0.160
1000	0.13	0.15	70.42	76.36	76.43	0.15	0.10	0.126
500	0.06	0.11	35.21	76.32	76.40	0.11	0.06	0.087
0	-0.01	0.08	0.00	76.24	76.37	0.03	0.04	0.035
0	-0.01	0.07	0.00	76.24	76.36	0.03	0.03	0.030
0	-0.01	0.07	0.00	76.24	76.36	0.03	0.03	0.030
100	0.01	0.07	7.04	76.26	76.36	0.05	0.03	0.039
200	0.02	0.07	14.08	76.27	76.36	0.06	0.03	0.043
400	0.04	0.08	28.17	76.28	76.37	0.08	0.04	0.056
600	0.07	0.08	42.25	76.31	76.37	0.10	0.04	0.069
800	0.09	0.08	56.34	76.33	76.37	0.12	0.04	0.078
1000	0.11	0.09	70.42	76.34	76.38	0.14	0.04	0.091
1200	0.13	0.1	84.51	76.36	76.39	0.15	0.05	0.104
1400	0.14	0.11	98.59	76.37	76.40	0.16	0.06	0.113
1600	0.15	0.12	112.68	76.38	76.41	0.17	0.07	0.121
1800	0.16	0.12	126.76	76.39	76.41	0.18	0.07	0.126
2000	0.17	0.13	140.85	76.40	76.41	0.19	0.08	0.134
2200	0.18	0.14	154.93	76.40	76.42	0.20	0.09	0.143
2400	0.18	0.15	169.01	76.40	76.43	0.20	0.10	0.147
2450	0.18	0.15	172.54	76.40	76.43	0.20	0.10	0.147
2500	0.19	0.15	176.06	76.41	76.43	0.21	0.10	0.152
2450	0.19	0.16	172.54	76.41	76.44	0.21	0.11	0.156
2400	0.19	0.16	169.01	76.41	76.44	0.21	0.11	0.156
2200	0.18	0.16	154.93	76.40	76.44	0.20	0.11	0.152
2000	0.17	0.15	140.85	76.40	76.43	0.19	0.10	0.143
1800	0.17	0.14	126.76	76.40	76.42	0.19	0.09	0.139
1600	0.16	0.14	112.68	76.39	76.42	0.18	0.09	0.134
1400	0.15	0.13	98.59	76.38	76.41	0.17	0.08	0.126
1200	0.14	0.12	84.51	76.37	76.41	0.16	0.07	0.117
1000	0.13	0.12	70.42	76.36	76.41	0.15	0.07	0.113
800	0.11	0.12	56.34	76.34	76.41	0.14	0.07	0.104
600	0.09	0.1	42.25	76.33	76.39	0.12	0.05	0.087
400	0.04	0.09	28.17	76.28	76.38	0.08	0.04	0.061
200	0.02	0.08	14.08	76.27	76.37	0.06	0.04	0.048
100	0.00	0.08	7.04	76.25	76.37	0.04	0.04	0.039
0	-0.02	0.07	0.00	76.23	76.36	0.03	0.03	0.026

Tab.A-4-12 Data Sheet of Deformation Test of Drillhole PHLL18TP
16.5m(1/3)

Equipment : Goodman Jack 700kg/cm2
 Date : 1995.02.23
 Direction : Perpendicular to Rio Paqueta
 Rock Species : Conglomerate
 Diameter : 76.20mm
 Poisson Ratio : 0.25
 Efficiency : 0.93

Pressure(p.s.i.)	Indicator Reading		Pressure(kg/cm2)	Diameter(mm)		Deformation(mm)		Deformation Average(mm)
	near	far		near	far	near	far	
0	0.09	0.27	0.00	76.33	76.54	0.00	0.00	0.000
50	0.10	0.28	3.52	76.34	76.55	0.01	0.01	0.009
100	0.10	0.28	7.04	76.34	76.55	0.01	0.01	0.009
150	0.11	0.29	10.56	76.34	76.56	0.02	0.02	0.017
200	0.12	0.29	14.08	76.35	76.56	0.03	0.02	0.022
200	0.12	0.29	14.08	76.35	76.56	0.03	0.02	0.022
150	0.12	0.29	10.56	76.35	76.56	0.03	0.02	0.022
100	0.12	0.29	7.04	76.35	76.56	0.03	0.02	0.022
50	0.11	0.29	3.52	76.34	76.56	0.02	0.02	0.017
0	0.11	0.29	0.00	76.34	76.56	0.02	0.02	0.017
0	0.11	0.29	0.00	76.34	76.56	0.02	0.02	0.017
0	0.11	0.29	0.00	76.34	76.56	0.02	0.02	0.017
50	0.11	0.29	3.52	76.34	76.56	0.02	0.02	0.017
100	0.11	0.29	7.04	76.34	76.56	0.02	0.02	0.017
200	0.12	0.29	14.08	76.35	76.56	0.03	0.02	0.022
300	0.14	0.30	21.13	76.37	76.56	0.04	0.03	0.035
400	0.15	0.31	28.17	76.38	76.57	0.05	0.04	0.043
450	0.16	0.32	31.69	76.39	76.58	0.06	0.04	0.052
500	0.17	0.32	35.21	76.40	76.58	0.07	0.04	0.056
500	0.17	0.32	35.21	76.40	76.58	0.07	0.04	0.056
450	0.17	0.32	31.69	76.40	76.58	0.07	0.04	0.056
400	0.17	0.32	28.17	76.40	76.58	0.07	0.04	0.056
300	0.17	0.32	21.13	76.40	76.58	0.07	0.04	0.056
200	0.16	0.32	14.08	76.39	76.58	0.06	0.04	0.052
100	0.15	0.31	7.04	76.38	76.57	0.05	0.04	0.043
50	0.14	0.31	3.52	76.37	76.57	0.04	0.04	0.039
0	0.13	0.30	0.00	76.36	76.56	0.03	0.03	0.030
0	0.13	0.30	0.00	76.36	76.56	0.03	0.03	0.030
0	0.13	0.30	0.00	76.36	76.56	0.03	0.03	0.030
100	0.13	0.30	7.04	76.36	76.56	0.03	0.03	0.030
200	0.14	0.31	14.08	76.37	76.57	0.04	0.04	0.039
400	0.15	0.32	28.17	76.38	76.58	0.05	0.04	0.048
600	0.18	0.33	42.25	76.40	76.59	0.08	0.05	0.065
800	0.21	0.35	56.34	76.43	76.61	0.10	0.07	0.087
900	0.23	0.35	63.38	76.45	76.61	0.12	0.07	0.095
1000	0.24	0.36	70.42	76.46	76.62	0.13	0.08	0.104
1000	0.24	0.36	70.42	76.46	76.62	0.13	0.08	0.104
900	0.24	0.36	63.38	76.45	76.62	0.13	0.08	0.104
800	0.24	0.36	56.34	76.46	76.62	0.13	0.08	0.104
600	0.23	0.35	42.25	76.45	76.61	0.12	0.07	0.095
400	0.21	0.35	28.17	76.43	76.61	0.10	0.07	0.087
200	0.18	0.33	14.08	76.40	76.59	0.08	0.05	0.065
100	0.15	0.32	7.04	76.38	76.58	0.05	0.04	0.048
0	0.13	0.32	0.00	76.36	76.58	0.03	0.04	0.039
0	0.13	0.32	0.00	76.36	76.58	0.03	0.04	0.039
0	0.13	0.32	0.00	76.36	76.58	0.03	0.04	0.039

Tab.A-4-12 Data Sheet of Deformation Test of Drillhole PHLL18TP
16.5m(2/3)

Pressure(p.s.i.)	Indicator Reading		Pressure(kgf/cm ²)	Diameter(mm)		Deformation(mm)		Deformation Average(mm)
	near	far		near	far	near	far	
100	0.13	0.32	7.04	76.36	76.58	0.03	0.04	0.039
200	0.14	0.33	14.08	76.37	76.59	0.04	0.05	0.048
400	0.16	0.34	28.17	76.39	76.60	0.06	0.06	0.061
500	0.19	0.35	42.25	76.41	76.61	0.09	0.07	0.078
500	0.22	0.36	56.34	76.44	76.62	0.11	0.08	0.096
1000	0.24	0.36	70.42	76.46	76.62	0.13	0.08	0.104
1200	0.26	0.38	84.51	76.47	76.63	0.15	0.10	0.122
1400	0.26	0.39	98.59	76.47	76.64	0.15	0.11	0.126
1600	0.27	0.40	112.68	76.48	76.65	0.15	0.11	0.135
1800	0.28	0.41	126.76	76.49	76.66	0.16	0.12	0.143
1900	0.28	0.42	133.80	76.49	76.67	0.16	0.13	0.148
2000	0.29	0.43	140.85	76.50	76.68	0.17	0.14	0.156
2000	0.29	0.43	140.85	76.50	76.68	0.17	0.14	0.156
1900	0.29	0.43	133.80	76.50	76.68	0.17	0.14	0.156
1800	0.29	0.43	126.76	76.50	76.68	0.17	0.14	0.156
1800	0.29	0.42	112.68	76.50	76.67	0.17	0.13	0.152
1400	0.29	0.42	98.59	76.50	76.67	0.17	0.13	0.152
1200	0.28	0.42	84.51	76.49	76.67	0.16	0.13	0.148
1000	0.28	0.41	70.42	76.49	76.66	0.16	0.12	0.143
800	0.27	0.39	56.34	76.48	76.64	0.15	0.11	0.130
600	0.24	0.33	42.25	76.46	76.63	0.13	0.10	0.113
400	0.21	0.37	28.17	76.43	76.63	0.10	0.09	0.096
200	0.18	0.36	14.08	76.40	76.62	0.08	0.08	0.078
100	0.16	0.35	7.04	76.39	76.61	0.06	0.07	0.065
0	0.13	0.34	0.00	76.36	76.60	0.03	0.06	0.048
0	0.13	0.34	0.00	76.36	76.60	0.03	0.06	0.048
0	0.13	0.34	0.00	76.36	76.60	0.03	0.06	0.048
250	0.14	0.35	17.61	76.37	76.61	0.04	0.07	0.057
500	0.16	0.36	35.21	76.40	76.62	0.08	0.08	0.078
1000	0.24	0.38	70.42	76.46	76.63	0.13	0.10	0.113
1500	0.27	0.41	105.63	76.48	76.66	0.15	0.12	0.139
2000	0.29	0.43	140.85	76.50	76.68	0.17	0.14	0.156
2500	0.30	0.45	176.06	76.51	76.70	0.18	0.16	0.169
2750	0.30	0.46	193.66	76.51	76.70	0.18	0.17	0.174
3000	0.31	0.48	211.27	76.52	76.72	0.19	0.18	0.187
3000	0.31	0.48	211.27	76.52	76.72	0.19	0.18	0.187
2750	0.31	0.48	193.66	76.52	76.72	0.19	0.18	0.187
2500	0.31	0.48	176.06	76.52	76.72	0.19	0.18	0.187
2000	0.31	0.47	140.85	76.52	76.71	0.19	0.18	0.183
1500	0.30	0.45	105.63	76.51	76.70	0.18	0.16	0.169
1000	0.29	0.42	70.42	76.50	76.67	0.17	0.13	0.152
500	0.23	0.39	35.21	76.45	76.64	0.12	0.11	0.113
250	0.18	0.37	17.61	76.40	76.63	0.08	0.09	0.083
0	0.14	0.36	0.00	76.37	76.62	0.04	0.08	0.061
0	0.14	0.36	0.00	76.37	76.62	0.04	0.08	0.061
0	0.14	0.36	0.00	76.37	76.62	0.04	0.08	0.061
250	0.15	0.35	17.61	76.38	76.62	0.05	0.08	0.065
500	0.18	0.38	35.21	76.40	76.63	0.08	0.10	0.087
1000	0.25	0.40	70.42	76.47	76.65	0.14	0.11	0.126
1500	0.27	0.42	105.63	76.48	76.67	0.15	0.13	0.143
2000	0.29	0.45	140.85	76.50	76.70	0.17	0.16	0.165
2500	0.30	0.47	176.06	76.51	76.71	0.18	0.18	0.178
3000	0.31	0.49	211.27	76.52	76.73	0.19	0.19	0.191
3500	0.32	0.51	246.48	76.53	76.75	0.20	0.21	0.205
3750	0.33	0.52	264.08	76.53	76.76	0.21	0.22	0.213
4000	0.33	0.53	281.69	76.53	76.77	0.21	0.23	0.218
4000	0.33	0.53	281.69	76.53	76.77	0.21	0.23	0.218
3750	0.33	0.53	264.08	76.53	76.77	0.21	0.23	0.218
3500	0.33	0.53	246.48	76.53	76.77	0.21	0.23	0.218
3000	0.33	0.53	211.27	76.53	76.77	0.21	0.23	0.218
2500	0.33	0.51	176.06	76.53	76.75	0.21	0.21	0.209
2000	0.33	0.49	140.85	76.53	76.73	0.21	0.19	0.200
1500	0.31	0.47	105.63	76.52	76.71	0.19	0.18	0.183
1000	0.29	0.43	70.42	76.50	76.68	0.17	0.14	0.156
500	0.23	0.40	35.21	76.45	76.65	0.12	0.11	0.117
250	0.19	0.39	17.61	76.41	76.64	0.09	0.11	0.095

Tab.A-4-12 Data Sheet of Deformation Test of Drillhole PHLL18TP
16.5m(3/3)

Pressure(p.s.i.)	Indicator Reading		Pressure(kg/cm2)	Diameter(mm)		Deformation(mm)		Deformation Average(mm)
	near	far		near	far	near	far	
0	0.13	0.36	0.00	76.36	76.62	0.03	0.08	0.057
0	0.13	0.36	0.00	76.36	76.62	0.03	0.08	0.057
0	0.13	0.36	0.00	76.36	76.62	0.03	0.08	0.057
500	0.16	0.39	35.21	76.40	76.64	0.08	0.11	0.091
1000	0.25	0.41	70.42	76.47	76.66	0.14	0.12	0.130
2000	0.29	0.46	140.85	76.50	76.70	0.17	0.17	0.170
3000	0.32	0.50	211.27	76.53	76.74	0.20	0.20	0.200
4000	0.34	0.54	281.69	76.54	76.78	0.22	0.24	0.226
4500	0.34	0.56	316.90	76.54	76.79	0.22	0.26	0.235
5000	0.35	0.58	352.11	76.55	76.81	0.22	0.27	0.244
5000	0.35	0.58	352.11	76.55	76.81	0.22	0.27	0.244
4500	0.35	0.58	316.90	76.55	76.81	0.22	0.27	0.244
4000	0.35	0.58	281.69	76.55	76.81	0.22	0.27	0.244
3000	0.35	0.55	211.27	76.55	76.79	0.22	0.25	0.235
2000	0.33	0.51	140.85	76.53	76.75	0.21	0.21	0.209
1000	0.29	0.45	70.42	76.50	76.70	0.17	0.16	0.165
500	0.24	0.42	35.21	76.46	76.67	0.13	0.13	0.131
250	0.14	0.38	17.61	76.37	76.63	0.04	0.10	0.070
0	0.14	0.38	0.00	76.37	76.63	0.04	0.10	0.070
0	0.14	0.38	0.00	76.37	76.63	0.04	0.10	0.070
0	0.14	0.38	0.00	76.37	76.63	0.04	0.10	0.070
100	0.14	0.38	7.04	76.37	76.63	0.04	0.10	0.070
200	0.14	0.38	14.08	76.37	76.63	0.04	0.10	0.070
400	0.17	0.39	28.17	76.40	76.64	0.07	0.11	0.087
600	0.2	0.4	42.25	76.42	76.65	0.09	0.11	0.105
800	0.23	0.41	56.34	76.45	76.66	0.12	0.12	0.122
1000	0.25	0.42	70.42	76.47	76.67	0.14	0.13	0.135
1200	0.26	0.43	84.51	76.47	76.68	0.15	0.14	0.144
1400	0.27	0.44	98.59	76.48	76.69	0.15	0.15	0.152
1600	0.29	0.44	112.68	76.50	76.69	0.17	0.15	0.161
1800	0.29	0.46	126.76	76.50	76.70	0.17	0.17	0.170
2000	0.3	0.47	140.85	76.51	76.71	0.18	0.18	0.178
2200	0.31	0.47	154.93	76.52	76.71	0.19	0.18	0.183
2400	0.31	0.49	169.01	76.52	76.73	0.19	0.19	0.191
2450	0.31	0.49	172.54	76.52	76.73	0.19	0.19	0.191
2500	0.31	0.5	176.06	76.52	76.74	0.19	0.20	0.196
2450	0.31	0.5	172.54	76.52	76.74	0.19	0.20	0.196
2400	0.31	0.5	169.01	76.52	76.74	0.19	0.20	0.196
2200	0.31	0.5	154.93	76.52	76.74	0.19	0.20	0.196
2000	0.31	0.5	140.85	76.52	76.74	0.19	0.20	0.196
1800	0.31	0.49	126.76	76.52	76.73	0.19	0.19	0.191
1600	0.31	0.46	112.68	76.52	76.72	0.19	0.18	0.187
1400	0.3	0.44	98.59	76.51	76.72	0.18	0.18	0.183
1200	0.3	0.46	84.51	76.51	76.70	0.18	0.17	0.174
1000	0.29	0.45	70.42	76.50	76.70	0.17	0.16	0.165
800	0.29	0.43	56.34	76.50	76.68	0.17	0.14	0.156
600	0.25	0.42	42.25	76.47	76.67	0.14	0.13	0.135
400	0.22	0.41	28.17	76.44	76.66	0.11	0.12	0.117
200	0.18	0.40	14.08	76.40	76.65	0.08	0.11	0.096
100	0.16	0.39	7.04	76.39	76.64	0.06	0.11	0.083
0	0.13	0.36	0.00	76.36	76.63	0.03	0.10	0.066

Tab.A-4-13 Data Sheet of Deformation Test of Drillhole PHLL18TP 22.3m (1/3)

Equipment : Goodman Jack 700kgf/cm²
 Date : 1995.02.23
 Direction : Pararell to Rio Paquita
 Rock Specles : Conglomerate
 Diameter : 76.20mm
 Poisson Ratio : 0.25
 Efficiency : 0.93

Pressure(p.s.i.)	Indicator Reading		Pressure(kgf/cm ²)	Diameter(mm)		Deformation(mm)		Deformation Average(mm)
	near	far		near	far	near	far	
0	-0.26	-0.18	0.00	76.03	76.14	0.00	0.00	0.000
50	-0.26	-0.19	3.52	76.03	76.14	0.00	0.00	0.000
100	-0.25	-0.17	7.04	76.04	76.15	0.01	0.01	0.009
150	-0.24	-0.17	10.56	76.04	76.15	0.02	0.01	0.013
200	-0.24	-0.17	14.08	76.04	76.15	0.02	0.01	0.013
250	-0.24	-0.17	14.08	76.04	76.15	0.02	0.01	0.013
300	-0.24	-0.17	14.08	76.04	76.15	0.02	0.01	0.013
350	-0.24	-0.17	10.56	76.04	76.15	0.02	0.01	0.013
400	-0.25	-0.17	7.04	76.04	76.15	0.01	0.01	0.009
450	-0.25	-0.17	3.52	76.04	76.15	0.01	0.01	0.009
500	-0.25	-0.18	0.00	76.04	76.14	0.01	0.00	0.004
550	-0.25	-0.18	0.00	76.04	76.14	0.01	0.00	0.004
600	-0.25	-0.18	0.00	76.04	76.14	0.01	0.00	0.004
650	-0.25	-0.17	3.52	76.04	76.15	0.01	0.01	0.009
700	-0.25	-0.17	7.04	76.04	76.15	0.01	0.01	0.009
750	-0.24	-0.17	14.08	76.04	76.15	0.02	0.01	0.013
800	-0.24	-0.16	21.13	76.04	76.16	0.02	0.02	0.017
850	-0.23	-0.15	28.17	76.05	76.17	0.03	0.03	0.026
900	-0.22	-0.15	31.69	76.06	76.17	0.03	0.03	0.030
950	-0.21	-0.14	35.21	76.07	76.18	0.04	0.04	0.039
1000	-0.21	-0.14	35.21	76.07	76.18	0.04	0.04	0.039
1050	-0.22	-0.13	31.69	76.06	76.19	0.03	0.04	0.039
1100	-0.21	-0.14	28.17	76.07	76.18	0.04	0.04	0.039
1150	-0.22	-0.14	21.13	76.06	76.18	0.03	0.04	0.035
1200	-0.22	-0.15	14.08	76.06	76.17	0.03	0.03	0.030
1250	-0.23	-0.16	7.04	76.05	76.16	0.03	0.02	0.022
1300	-0.24	-0.17	3.52	76.04	76.15	0.02	0.01	0.013
1350	-0.25	-0.17	0.00	76.04	76.15	0.01	0.01	0.009
1400	-0.25	-0.17	0.00	76.04	76.15	0.01	0.01	0.009
1450	-0.25	-0.17	0.00	76.04	76.15	0.01	0.01	0.009
1500	-0.24	-0.17	7.04	76.04	76.15	0.02	0.01	0.013
1550	-0.24	-0.16	14.08	76.04	76.16	0.02	0.02	0.017
1600	-0.22	-0.15	28.17	76.06	76.17	0.03	0.03	0.030
1650	-0.21	-0.14	42.25	76.07	76.18	0.04	0.04	0.039
1700	-0.20	-0.12	56.34	76.08	76.19	0.05	0.05	0.052
1750	-0.19	-0.12	63.38	76.09	76.19	0.06	0.05	0.057
1800	-0.19	-0.12	70.42	76.09	76.19	0.06	0.05	0.057
1850	-0.19	-0.12	70.42	76.09	76.19	0.06	0.05	0.057
1900	-0.19	-0.12	63.38	76.09	76.19	0.06	0.05	0.057
1950	-0.19	-0.12	56.34	76.09	76.19	0.06	0.05	0.057
2000	-0.20	-0.12	42.25	76.08	76.19	0.05	0.05	0.052
2050	-0.20	-0.14	28.17	76.08	76.18	0.05	0.04	0.043
2100	-0.22	-0.15	14.08	76.06	76.17	0.03	0.03	0.030
2150	-0.23	-0.16	7.04	76.05	76.16	0.03	0.02	0.022
2200	-0.24	-0.17	0.00	76.04	76.15	0.02	0.01	0.013
2250	-0.24	-0.17	0.00	76.04	76.15	0.02	0.01	0.013
2300	-0.24	-0.17	0.00	76.04	76.15	0.02	0.01	0.013
2350	-0.24	-0.16	7.04	76.04	76.16	0.02	0.02	0.017

Tab.A-4-13 Data Sheet of Deformation Test of Drillhole PHL18TP
22.3m (2/3)

Pressure(p.s.i.)	Indicator Reading		Pressure(kg/cm2)	Diameter(mm)		Deformation(mm)		Deformation Average(mm)
	near	far		near	far	near	far	
200	-0.23	-0.16	14.08	76.05	76.16	0.03	0.02	0.022
400	-0.22	-0.15	28.17	76.06	76.17	0.03	0.03	0.030
600	-0.20	-0.13	42.25	76.08	76.19	0.05	0.04	0.048
800	-0.19	-0.12	56.34	76.09	76.19	0.06	0.05	0.057
1000	-0.19	-0.11	70.42	76.09	76.20	0.06	0.06	0.061
1200	-0.18	-0.10	84.51	76.10	76.21	0.07	0.07	0.070
1400	-0.18	-0.08	98.59	76.10	76.23	0.07	0.09	0.078
1600	-0.17	-0.07	112.68	76.10	76.24	0.08	0.10	0.087
1800	-0.17	-0.06	126.76	76.10	76.25	0.08	0.11	0.092
1900	-0.16	-0.06	133.80	76.11	76.25	0.09	0.11	0.096
2000	-0.16	-0.05	140.85	76.11	76.26	0.09	0.11	0.100
2000	-0.16	-0.05	140.85	76.11	76.26	0.09	0.11	0.100
1900	-0.16	-0.05	133.80	76.11	76.26	0.09	0.11	0.100
1500	-0.16	-0.05	126.76	76.11	76.26	0.09	0.11	0.100
1300	-0.16	-0.06	112.68	76.11	76.25	0.09	0.11	0.096
1430	-0.17	-0.06	98.59	76.10	76.25	0.08	0.11	0.092
1200	-0.17	-0.07	84.51	76.10	76.24	0.08	0.10	0.087
1000	-0.17	-0.09	70.42	76.10	76.22	0.08	0.08	0.078
800	-0.18	-0.10	56.34	76.10	76.21	0.07	0.07	0.070
600	-0.19	-0.11	42.25	76.09	76.20	0.06	0.06	0.061
400	-0.20	-0.13	28.17	76.08	76.19	0.05	0.04	0.048
200	-0.21	-0.14	14.08	76.07	76.18	0.04	0.04	0.039
100	-0.22	-0.15	7.04	76.06	76.17	0.03	0.03	0.030
0	-0.23	-0.16	0.00	76.05	76.16	0.03	0.02	0.022
0	-0.23	-0.16	0.00	76.05	76.16	0.03	0.02	0.022
0	-0.23	-0.16	0.00	76.05	76.16	0.03	0.02	0.022
250	-0.22	-0.15	17.61	76.06	76.17	0.03	0.03	0.030
500	-0.21	-0.14	35.21	76.07	76.18	0.04	0.04	0.039
1000	-0.18	-0.12	70.42	76.10	76.19	0.07	0.05	0.061
1500	-0.17	-0.08	105.63	76.10	76.23	0.08	0.09	0.083
2000	-0.16	-0.05	140.85	76.11	76.26	0.09	0.11	0.100
2500	-0.15	-0.03	176.06	76.12	76.27	0.09	0.13	0.113
2750	-0.15	-0.02	193.66	76.12	76.28	0.09	0.14	0.118
3000	-0.13	-0.02	211.27	76.14	76.28	0.11	0.14	0.126
3000	-0.14	-0.01	211.27	76.13	76.29	0.10	0.15	0.126
2750	-0.14	-0.01	193.66	76.13	76.29	0.10	0.15	0.126
2500	-0.14	-0.02	176.06	76.13	76.28	0.10	0.14	0.122
2000	-0.15	-0.04	140.85	76.12	76.26	0.09	0.12	0.109
1500	-0.16	-0.06	105.63	76.11	76.25	0.09	0.11	0.096
1000	-0.17	-0.09	70.42	76.10	76.22	0.08	0.08	0.078
500	-0.19	-0.12	35.21	76.09	76.19	0.06	0.05	0.057
250	-0.21	-0.14	17.61	76.07	76.18	0.04	0.04	0.039
0	-0.23	-0.16	0.00	76.05	76.16	0.03	0.02	0.022
0	-0.23	-0.16	0.00	76.05	76.16	0.03	0.02	0.022
0	-0.23	-0.16	0.00	76.05	76.16	0.03	0.02	0.022
250	-0.22	-0.15	17.61	76.06	76.17	0.03	0.03	0.030
500	-0.20	-0.13	35.21	76.08	76.19	0.05	0.04	0.048
1000	-0.18	-0.10	70.42	76.10	76.21	0.07	0.07	0.070
1500	-0.17	-0.07	105.63	76.10	76.24	0.08	0.10	0.087
2000	-0.16	-0.05	140.85	76.11	76.26	0.09	0.11	0.100
2500	-0.15	-0.03	176.06	76.12	76.27	0.09	0.13	0.113
3000	-0.14	-0.01	211.27	76.13	76.29	0.10	0.15	0.126
3500	-0.13	0.00	246.48	76.14	76.30	0.11	0.16	0.135
3750	-0.13	0.01	264.08	76.14	76.31	0.11	0.17	0.139
4000	-0.12	0.01	281.69	76.15	76.31	0.12	0.17	0.144
4000	-0.12	0.01	281.69	76.15	76.31	0.12	0.17	0.144
3750	-0.12	0.01	264.08	76.15	76.31	0.12	0.17	0.144
3500	-0.12	0.01	246.48	76.15	76.31	0.12	0.17	0.144
3000	-0.13	0.01	211.27	76.14	76.31	0.11	0.17	0.139
2500	-0.14	0.00	176.06	76.13	76.30	0.10	0.16	0.131
2000	-0.14	-0.03	140.85	76.13	76.27	0.10	0.13	0.118
1500	-0.15	-0.05	105.63	76.12	76.26	0.09	0.11	0.105
1000	-0.17	-0.08	70.42	76.10	76.23	0.08	0.09	0.083
500	-0.19	-0.11	35.21	76.09	76.20	0.06	0.06	0.061
250	-0.20	-0.14	17.61	76.08	76.18	0.05	0.04	0.048

Tab.A-4-13 Data Sheet of Deformation Test of Drillhole PHLL18TP
22.3m (3/3)

Pressure(p.s.i.)	Indicator Reading		Pressure(kgf/cm ²)	Diameter(mm)		Deformation(mm)		Deformation Average(mm)
	near	far		near	far	near	far	
0	-0.23	-0.16	0.00	76.05	76.16	0.03	0.02	0.022
0	-0.23	-0.16	0.00	76.05	76.16	0.03	0.02	0.022
0	-0.23	-0.16	0.00	76.05	76.16	0.03	0.02	0.022
500	-0.20	-0.13	35.21	76.08	76.19	0.05	0.04	0.048
1000	-0.20	-0.04	70.42	76.08	76.26	0.05	0.12	0.087
2000	-0.15	-0.04	140.85	76.12	76.26	0.09	0.12	0.109
3000	-0.14	-0.01	211.27	76.13	76.29	0.10	0.15	0.126
4000	-0.10	-0.01	281.69	76.16	76.29	0.14	0.15	0.144
4500	-0.11	0.02	316.90	76.16	76.32	0.13	0.18	0.153
5000	-0.10	0.03	352.11	76.16	76.33	0.14	0.18	0.161
5000	-0.10	0.03	352.11	76.16	76.33	0.14	0.18	0.161
4500	-0.10	0.03	316.90	76.16	76.33	0.14	0.18	0.161
4000	-0.11	0.02	281.69	76.16	76.32	0.13	0.18	0.153
3000	-0.12	0.00	211.27	76.15	76.30	0.12	0.16	0.139
2000	-0.13	-0.02	140.85	76.14	76.28	0.11	0.14	0.126
1000	-0.16	-0.02	70.42	76.11	76.28	0.09	0.14	0.113
500	-0.18	-0.11	35.21	76.10	76.20	0.07	0.06	0.065
250	-0.18	-0.15	17.61	76.10	76.17	0.07	0.03	0.048
0	-0.22	-0.15	0.00	76.06	76.17	0.03	0.03	0.030
0	-0.22	-0.15	0.00	76.06	76.17	0.03	0.03	0.030
0	-0.22	-0.15	0.00	76.06	76.17	0.03	0.03	0.030
100	-0.22	-0.15	7.04	76.06	76.17	0.03	0.03	0.030
200	-0.22	-0.15	14.08	76.06	76.17	0.03	0.03	0.030
400	-0.2	-0.13	28.17	76.08	76.19	0.05	0.04	0.048
600	-0.19	-0.12	42.25	76.09	76.19	0.06	0.05	0.057
800	-0.18	-0.1	56.34	76.10	76.21	0.07	0.07	0.070
1000	-0.17	-0.1	70.42	76.10	76.21	0.08	0.07	0.074
1200	-0.17	-0.08	84.51	76.10	76.23	0.08	0.09	0.083
1400	-0.16	-0.07	98.59	76.11	76.24	0.09	0.10	0.091
1800	-0.16	-0.06	126.68	76.11	76.25	0.09	0.11	0.096
1800	-0.15	-0.05	126.76	76.12	76.26	0.09	0.11	0.105
2000	-0.15	-0.04	140.85	76.12	76.26	0.09	0.12	0.109
2200	-0.15	-0.03	154.93	76.12	76.27	0.09	0.13	0.113
2400	-0.14	-0.03	169.01	76.13	76.27	0.10	0.13	0.116
2450	-0.14	-0.03	172.54	76.13	76.27	0.10	0.13	0.116
2500	-0.14	-0.03	176.06	76.13	76.27	0.10	0.13	0.116
2450	-0.14	-0.03	172.54	76.13	76.27	0.10	0.13	0.116
2400	-0.14	-0.03	169.01	76.13	76.27	0.10	0.13	0.116
2200	-0.14	-0.03	154.93	76.13	76.27	0.10	0.13	0.116
2000	-0.14	-0.03	140.85	76.13	76.27	0.10	0.13	0.116
1800	-0.15	-0.04	126.76	76.12	76.26	0.09	0.12	0.109
1600	-0.15	-0.05	112.68	76.12	76.26	0.09	0.11	0.105
1400	-0.16	-0.06	98.59	76.11	76.25	0.09	0.11	0.096
1200	-0.16	-0.07	84.51	76.11	76.24	0.09	0.10	0.091
1000	-0.16	-0.08	70.42	76.11	76.23	0.09	0.09	0.087
800	-0.17	-0.09	56.34	76.10	76.22	0.08	0.08	0.078
600	-0.18	-0.11	42.25	76.10	76.20	0.07	0.06	0.065
400	-0.19	-0.12	28.17	76.09	76.19	0.06	0.05	0.057
200	-0.21	-0.14	14.08	76.07	76.18	0.04	0.04	0.039
100	-0.22	-0.15	7.04	76.06	76.17	0.03	0.03	0.030
0	-0.23	-0.16	0.00	76.05	76.16	0.03	0.02	0.022

Tab.A-4-14 Data Sheet of Deformation Test of Drillhole PHELL18TP 22.5m (1/3)

Equipment : Goodman Jack 700kgf/cm²
 Date : 1995.02.23
 Direction : Perpendicular to Rio Paquita
 Rock Species : Conglomerate
 Diameter : 76.20mm
 Poisson Ratio : 0.25
 Efficiency : 0.93

Pressure(p.s.i.)	Indicator Reading		Pressure(kgf/cm ²)	Diameter(mm)		Deformation(mm)		Deformation Average(mm)
	near	far		near	far	near	far	
0	-0.14	-0.23	0.00	7613	7610	0.00	0.00	0.000
50	-0.13	-0.22	3.52	7614	7611	0.01	0.01	0.009
100	-0.11	-0.21	7.04	7616	7612	0.03	0.02	0.022
150	-0.10	-0.20	10.56	7616	7612	0.03	0.03	0.030
200	-0.09	-0.20	14.08	7617	7612	0.04	0.03	0.035
200	-0.09	-0.20	14.08	7617	7612	0.04	0.03	0.035
150	-0.09	-0.20	10.56	7617	7612	0.04	0.03	0.035
100	-0.09	-0.20	7.04	7617	7612	0.04	0.03	0.035
50	-0.09	-0.20	3.52	7617	7612	0.04	0.03	0.035
0	-0.10	-0.20	0.00	7616	7612	0.03	0.03	0.030
0	-0.10	-0.20	0.00	7616	7612	0.03	0.03	0.030
0	-0.10	-0.20	0.00	7616	7612	0.03	0.03	0.030
50	-0.10	-0.20	3.52	7616	7612	0.03	0.03	0.030
100	-0.10	-0.20	7.04	7616	7612	0.03	0.03	0.030
200	-0.09	-0.20	14.08	7617	7612	0.04	0.03	0.035
300	-0.07	-0.18	21.13	7619	7614	0.06	0.04	0.052
400	-0.05	-0.18	28.17	7621	7614	0.08	0.04	0.061
450	-0.04	-0.17	31.69	7622	7615	0.09	0.05	0.069
500	-0.04	-0.16	35.21	7622	7616	0.09	0.06	0.074
500	-0.04	-0.16	35.21	7622	7616	0.09	0.06	0.074
450	-0.04	-0.17	31.69	7622	7615	0.09	0.05	0.069
400	-0.04	-0.17	28.17	7622	7615	0.09	0.05	0.069
300	-0.04	-0.17	21.13	7622	7615	0.09	0.05	0.069
200	-0.04	-0.17	14.08	7622	7615	0.09	0.05	0.069
100	-0.06	-0.18	7.04	7620	7614	0.07	0.04	0.056
50	-0.06	-0.19	3.52	7620	7613	0.07	0.04	0.052
0	-0.08	-0.19	0.00	7618	7613	0.05	0.04	0.043
0	-0.08	-0.19	0.00	7618	7613	0.05	0.04	0.043
0	-0.08	-0.19	0.00	7618	7613	0.05	0.04	0.043
50	-0.08	-0.19	3.52	7618	7613	0.05	0.04	0.043
100	-0.08	-0.19	7.04	7618	7613	0.05	0.04	0.043
200	-0.08	-0.18	14.08	7618	7614	0.05	0.04	0.048
400	-0.04	-0.17	28.17	7622	7615	0.09	0.05	0.069
600	-0.03	-0.14	42.25	7622	7618	0.09	0.08	0.087
800	-0.02	-0.12	56.34	7623	7619	0.10	0.10	0.100
900	-0.02	-0.10	63.38	7623	7621	0.10	0.11	0.109
1000	-0.02	-0.09	70.42	7623	7622	0.10	0.12	0.113
1000	-0.02	-0.09	70.42	7623	7622	0.10	0.12	0.113
900	-0.02	-0.09	63.38	7623	7622	0.10	0.12	0.113
800	-0.02	-0.09	56.34	7623	7622	0.10	0.12	0.113
600	-0.02	-0.09	42.25	7623	7622	0.10	0.12	0.113
400	-0.02	-0.11	28.17	7623	7620	0.10	0.11	0.104
200	-0.03	-0.13	14.08	7622	7619	0.09	0.09	0.091
100	-0.01	-0.15	7.04	7624	7617	0.11	0.07	0.091
50	-0.08	-0.17	3.52	7618	7615	0.05	0.05	0.052
0	-0.08	-0.17	0.00	7618	7615	0.05	0.05	0.052
0	-0.08	-0.17	0.00	7618	7615	0.05	0.05	0.052
0	-0.08	-0.17	0.00	7618	7615	0.05	0.05	0.052
100	-0.08	-0.17	7.04	7618	7615	0.05	0.05	0.052

**Tab.A-4-14 Data Sheet of Deformation Test of Drillhole PHLL18TP
22.5m (2/3)**

Pressure(p.s.i.)	Indicator Reading		Pressure(kgf/cm ²)	Diameter(mm)		Deformation(mm)		Deformation Average(mm)
	near	far		near	far	near	far	
200	-0.07	-0.16	14.08	76.19	76.16	0.06	0.06	0.061
400	-0.05	-0.15	28.17	76.21	76.17	0.06	0.07	0.074
600	-0.03	-0.13	42.25	76.22	76.19	0.09	0.09	0.091
800	-0.02	-0.10	56.34	76.23	76.21	0.10	0.11	0.109
1000	-0.02	-0.08	70.42	76.23	76.23	0.10	0.13	0.118
1200	-0.01	-0.06	84.51	76.24	76.25	0.11	0.15	0.131
1400	-0.01	-0.03	98.59	76.24	76.27	0.11	0.18	0.144
1600	0.00	-0.02	112.68	76.25	76.28	0.12	0.18	0.153
1800	0.00	0.00	126.76	76.25	76.30	0.12	0.20	0.161
1900	0.00	0.01	133.80	76.25	76.31	0.12	0.21	0.166
2000	0.00	0.02	140.85	76.25	76.32	0.12	0.22	0.170
2000	0.00	0.02	140.85	76.25	76.32	0.12	0.22	0.170
1900	0.00	0.02	133.80	76.25	76.32	0.12	0.22	0.170
1800	0.00	0.02	126.76	76.25	76.32	0.12	0.22	0.170
1800	0.00	0.01	112.68	76.25	76.31	0.12	0.21	0.166
1400	0.00	0.01	98.59	76.25	76.31	0.12	0.21	0.166
1200	0.00	0.01	84.51	76.25	76.31	0.12	0.21	0.166
1000	0.00	0.02	70.42	76.25	76.32	0.12	0.22	0.170
800	0.00	-0.03	56.34	76.25	76.27	0.12	0.18	0.148
800	0.00	-0.06	42.25	76.25	76.25	0.12	0.15	0.135
400	-0.01	-0.09	28.17	76.24	76.22	0.11	0.12	0.117
200	-0.03	-0.12	14.08	76.22	76.19	0.09	0.10	0.096
100	-0.05	-0.13	7.04	76.21	76.19	0.08	0.09	0.083
0	-0.03	-0.15	0.00	76.18	76.17	0.05	0.07	0.061
0	-0.03	-0.15	0.00	76.18	76.17	0.05	0.07	0.061
0	-0.03	-0.15	0.00	76.18	76.17	0.05	0.07	0.061
250	-0.07	-0.14	17.61	76.19	76.18	0.06	0.08	0.070
500	-0.03	-0.12	35.21	76.22	76.19	0.09	0.10	0.096
1000	-0.01	-0.06	70.42	76.24	76.25	0.11	0.15	0.131
1500	0.00	-0.01	105.63	76.25	76.29	0.12	0.19	0.157
2000	0.00	0.03	140.85	76.25	76.33	0.12	0.23	0.175
2500	0.00	0.06	176.06	76.25	76.35	0.12	0.26	0.188
2750	0.01	0.08	193.66	76.26	76.37	0.13	0.27	0.201
3000	0.01	0.09	211.27	76.26	76.38	0.13	0.28	0.205
3000	0.01	0.09	211.27	76.26	76.38	0.13	0.28	0.205
2750	0.01	0.09	193.66	76.26	76.38	0.13	0.28	0.205
2500	0.01	0.09	176.06	76.26	76.38	0.13	0.28	0.205
2000	0.01	0.07	140.85	76.26	76.36	0.13	0.26	0.197
1500	0.01	0.04	105.63	76.26	76.34	0.13	0.24	0.183
1000	0.01	0.00	70.42	76.26	76.30	0.13	0.20	0.166
500	0.00	-0.06	35.21	76.25	76.25	0.12	0.15	0.135
250	-0.02	-0.10	17.61	76.23	76.21	0.10	0.11	0.109
0	-0.07	-0.14	0.00	76.19	76.18	0.06	0.08	0.070
0	-0.07	-0.14	0.00	76.19	76.18	0.06	0.08	0.070
0	-0.07	-0.14	0.00	76.19	76.18	0.06	0.08	0.070
250	-0.06	-0.13	17.61	76.20	76.19	0.07	0.09	0.078
500	-0.03	-0.11	35.21	76.22	76.20	0.09	0.11	0.100
1000	-0.01	-0.05	70.42	76.24	76.26	0.11	0.16	0.135
1500	0.00	0.00	105.63	76.25	76.30	0.12	0.20	0.161
2000	0.00	0.04	140.85	76.25	76.34	0.12	0.24	0.179
2500	0.01	0.07	176.06	76.26	76.36	0.13	0.26	0.197
3000	0.02	0.10	211.27	76.27	76.39	0.14	0.29	0.214
3500	0.02	0.12	246.48	76.27	76.41	0.14	0.31	0.223
3750	0.03	0.13	264.08	76.28	76.41	0.15	0.32	0.232
4000	0.03	0.14	281.69	76.28	76.42	0.15	0.33	0.236
4000	0.03	0.14	281.69	76.28	76.42	0.15	0.33	0.236
3750	0.03	0.14	264.08	76.28	76.42	0.15	0.33	0.236
3500	0.03	0.14	246.48	76.28	76.42	0.15	0.33	0.236
3000	0.03	0.13	211.27	76.28	76.41	0.15	0.32	0.232
2500	0.03	0.11	176.06	76.28	76.40	0.15	0.30	0.223
2000	0.03	0.09	140.85	76.28	76.38	0.15	0.28	0.214
1500	0.02	0.05	105.63	76.27	76.34	0.14	0.25	0.192
1000	0.02	0.00	70.42	76.27	76.30	0.14	0.20	0.170

Tab.A-4-14 Data Sheet of Deformation Test of Drillhole PHLL18TP
22.5m (3/3)

Pressure(p.s.i.)	Indicator Reading		Pressure(kgf/cm ²)	Diameter(mm)		Deformation(mm)		Deformation Average(mm)
	near	far		near	far	near	far	
500	0.00	-0.06	35.21	76.25	76.25	0.12	0.15	0.135
250	-0.02	-0.10	17.61	76.23	76.21	0.10	0.11	0.109
0	-0.06	-0.13	0.00	76.20	76.19	0.07	0.09	0.078
0	-0.06	-0.13	0.00	76.20	76.19	0.07	0.09	0.078
0	-0.06	-0.13	0.00	76.20	76.19	0.07	0.09	0.078
500	-0.02	-0.10	35.21	76.23	76.21	0.10	0.11	0.109
1000	-0.01	-0.04	70.42	76.24	76.24	0.11	0.17	0.139
2000	0.01	0.05	140.85	76.26	76.24	0.13	0.25	0.188
3000	0.02	0.11	211.27	76.27	76.40	0.14	0.30	0.218
4000	0.03	0.15	281.69	76.28	76.43	0.15	0.33	0.240
4500	0.04	0.16	316.90	76.28	76.44	0.15	0.34	0.249
5000	0.05	0.18	352.11	76.29	76.46	0.16	0.36	0.262
5000	0.05	0.18	352.11	76.29	76.46	0.16	0.36	0.262
4500	0.05	0.18	316.90	76.29	76.46	0.16	0.36	0.262
4000	0.05	0.17	281.69	76.29	76.45	0.16	0.35	0.258
3000	0.05	0.15	211.27	76.29	76.43	0.16	0.33	0.249
2000	0.04	0.10	140.85	76.28	76.39	0.15	0.29	0.223
1000	0.03	0.01	70.42	76.28	76.31	0.15	0.21	0.179
500	0.01	0.01	35.21	76.26	76.31	0.13	0.21	0.170
250	-0.06	-0.01	17.61	76.20	76.31	0.07	0.21	0.141
0	-0.06	-0.12	0.00	76.20	76.19	0.07	0.10	0.083
0	-0.06	-0.12	0.00	76.20	76.19	0.07	0.10	0.083
0	-0.06	-0.12	0.00	76.20	76.19	0.07	0.10	0.083
100	-0.06	-0.11	7.04	76.20	76.20	0.07	0.11	0.087
200	-0.05	-0.1	14.08	76.21	76.21	0.08	0.11	0.096
400	-0.03	-0.08	28.17	76.22	76.23	0.09	0.13	0.113
600	-0.01	-0.06	42.25	76.24	76.25	0.11	0.15	0.131
800	-0.01	-0.03	56.34	76.24	76.27	0.11	0.18	0.144
1000	-0.01	-0.01	70.42	76.24	76.29	0.11	0.19	0.153
1200	-0.01	0.01	84.51	76.24	76.31	0.11	0.21	0.161
1400	-0.01	0.02	98.59	76.24	76.32	0.11	0.22	0.166
1800	-0.01	0.04	112.68	76.24	76.34	0.11	0.24	0.175
1800	-0.01	0.06	126.76	76.24	76.35	0.11	0.26	0.184
2000	-0.01	0.08	140.85	76.24	76.37	0.11	0.27	0.192
2200	0.02	0.09	154.93	76.27	76.38	0.14	0.28	0.210
2400	0.02	0.09	169.01	76.27	76.38	0.14	0.28	0.210
2450	0.02	0.09	172.54	76.27	76.38	0.14	0.28	0.210
2500	0.02	0.09	176.06	76.27	76.38	0.14	0.28	0.210
2450	0.02	0.09	172.54	76.27	76.38	0.14	0.28	0.210
2400	0.02	0.09	169.01	76.27	76.38	0.14	0.28	0.210
2200	0.02	0.09	154.93	76.27	76.38	0.14	0.28	0.210
2000	0.02	0.09	140.85	76.27	76.38	0.14	0.28	0.210
1800	0.02	0.07	126.76	76.27	76.36	0.14	0.26	0.201
1600	0.02	0.06	112.68	76.27	76.35	0.14	0.26	0.196
1400	0.02	0.04	98.59	76.27	76.34	0.14	0.24	0.188
1200	0.02	0.02	84.51	76.27	76.32	0.14	0.22	0.179
1000	0.02	0.01	70.42	76.27	76.31	0.14	0.21	0.174
800	0.01	-0.01	56.34	76.26	76.29	0.13	0.19	0.161
600	0.01	-0.04	42.25	76.26	76.26	0.13	0.17	0.148
400	0.00	-0.07	28.17	76.25	76.24	0.12	0.14	0.131
200	-0.01	-0.10	14.08	76.24	76.21	0.11	0.11	0.113
100	-0.03	-0.11	7.04	76.22	76.20	0.09	0.11	0.100
0	-0.06	-0.13	0.00	76.20	76.19	0.07	0.09	0.078

Data sheet was offered by ICE.

Tab.A-4-15 Data Sheet of Deformation Test of Drillhole PHLL18TP 29.3m (1/3)

Equipment : Goodman Jack 700kgf/cm²
 Date : 1995.02.23
 Direction : Pararell to Rio Paquita
 Rock Species : Conglomerate
 Diameter : 76.20mm
 Polsson Ratio : 0.25
 Efficiency : 0.93

Pressure(p.s.i.)	Indicator Reading		Pressure(kgf/cm ²)	Diameter(mm)		Deformation(mm)		Deformation Average(mm)
	near	far		near	far	near	far	
0	-0.15	-0.18	0.00	76.12	76.14	0.00	0.00	0.000
50	-0.15	-0.17	3.52	76.12	76.15	0.00	0.01	0.004
100	-0.15	-0.17	7.04	76.12	76.15	0.00	0.01	0.004
150	-0.14	-0.14	10.56	76.13	76.18	0.01	0.04	0.022
200	-0.14	-0.12	14.08	76.13	76.19	0.01	0.05	0.031
250	-0.14	-0.12	14.08	76.13	76.19	0.01	0.05	0.031
300	-0.14	-0.12	10.56	76.13	76.19	0.01	0.05	0.031
350	-0.14	-0.12	7.04	76.13	76.19	0.01	0.05	0.031
400	-0.14	-0.13	3.52	76.13	76.19	0.01	0.04	0.026
450	-0.15	-0.14	0.00	76.12	76.18	0.00	0.04	0.018
500	-0.15	-0.14	0.00	76.12	76.18	0.00	0.04	0.018
550	-0.15	-0.14	0.00	76.12	76.18	0.00	0.04	0.018
600	-0.15	-0.14	3.52	76.12	76.18	0.00	0.04	0.018
650	-0.15	-0.14	7.04	76.12	76.18	0.00	0.04	0.018
700	-0.15	-0.14	14.08	76.13	76.19	0.01	0.05	0.031
750	-0.14	-0.09	21.13	76.13	76.22	0.01	0.08	0.044
800	-0.13	-0.07	28.17	76.14	76.24	0.02	0.10	0.057
850	-0.13	-0.05	31.69	76.14	76.26	0.02	0.11	0.064
900	-0.13	-0.04	35.21	76.14	76.26	0.02	0.12	0.070
950	-0.13	-0.04	35.21	76.14	76.26	0.02	0.12	0.070
1000	-0.13	-0.04	31.69	76.14	76.26	0.02	0.12	0.070
1050	-0.13	-0.04	28.17	76.14	76.26	0.02	0.12	0.070
1100	-0.13	-0.04	21.13	76.14	76.26	0.02	0.12	0.070
1150	-0.13	-0.07	14.08	76.14	76.24	0.02	0.10	0.057
1200	-0.13	-0.10	7.04	76.14	76.21	0.02	0.07	0.044
1250	-0.13	-0.11	3.52	76.14	76.20	0.02	0.06	0.039
1300	-0.14	-0.13	0.00	76.13	76.19	0.01	0.04	0.026
1350	-0.14	-0.13	0.00	76.13	76.19	0.01	0.04	0.026
1400	-0.14	-0.13	3.52	76.13	76.19	0.01	0.04	0.026
1450	-0.14	-0.13	7.04	76.13	76.19	0.01	0.04	0.026
1500	-0.13	-0.10	14.08	76.14	76.21	0.02	0.07	0.044
1550	-0.13	-0.06	28.17	76.14	76.25	0.02	0.11	0.061
1600	-0.13	-0.02	42.25	76.14	76.28	0.02	0.14	0.079
1650	-0.12	0.00	56.34	76.15	76.30	0.03	0.16	0.092
1700	-0.12	0.00	63.38	76.15	76.30	0.03	0.16	0.092
1750	-0.11	-0.01	66.90	76.16	76.29	0.03	0.15	0.092
1800	-0.11	-0.01	70.42	76.16	76.29	0.03	0.15	0.092
1850	-0.11	-0.01	70.42	76.16	76.29	0.03	0.15	0.092
1900	-0.11	-0.01	66.90	76.16	76.29	0.03	0.15	0.092
1950	-0.11	-0.01	63.38	76.16	76.29	0.03	0.15	0.092
2000	-0.11	-0.01	56.34	76.16	76.29	0.03	0.15	0.092
2050	-0.11	-0.01	42.25	76.16	76.29	0.03	0.15	0.092
2100	-0.12	-0.02	28.17	76.15	76.28	0.03	0.14	0.083
2150	-0.12	-0.05	14.08	76.15	76.26	0.03	0.11	0.070
2200	-0.12	-0.09	7.04	76.15	76.22	0.03	0.08	0.053
2250	-0.12	-0.12	3.52	76.15	76.19	0.03	0.05	0.039
2300	-0.12	-0.12	0.00	76.15	76.19	0.03	0.05	0.039
2350	-0.12	-0.12	0.00	76.15	76.19	0.03	0.05	0.039
2400	-0.12	-0.12	0.00	76.15	76.19	0.03	0.05	0.039

Data sheet was offered by ICE.

Tab.A-4-15 Data Sheet of Deformation Test of Drillhole PHLL18TP
29.3m (2/3)

Pressure(p.s.i.)	Indicator Reading		Pressure(kgf/cm ²)	Diameter(mm)		Deformation(mm)		Deformation Average(mm)
	near	far		near	far	near	far	
100	-012	-010	7.04	7615	7621	0.03	0.07	0.044
200	-012	-005	14.08	7615	7626	0.03	0.11	0.070
300	-011	-001	21.17	7616	7629	0.03	0.15	0.092
400	-011	0.00	28.17	7616	7630	0.03	0.16	0.094
500	-010	0.02	35.34	7616	7632	0.04	0.16	0.110
600	-011	0.03	42.25	7616	7633	0.03	0.18	0.110
700	-011	0.04	49.51	7616	7634	0.03	0.19	0.114
800	-010	0.05	56.34	7616	7634	0.04	0.20	0.123
900	-010	0.06	63.68	7616	7635	0.04	0.21	0.127
1000	-009	0.07	70.76	7617	7636	0.05	0.22	0.136
1100	-009	0.08	77.80	7617	7637	0.05	0.23	0.140
1200	-009	0.08	84.51	7617	7637	0.05	0.23	0.140
1300	-009	0.08	91.59	7617	7637	0.05	0.23	0.145
1400	-008	0.08	98.59	7618	7637	0.06	0.23	0.145
1500	-008	0.08	105.63	7618	7637	0.06	0.23	0.145
1600	-008	0.08	112.68	7618	7637	0.06	0.23	0.145
1700	-009	0.08	119.76	7617	7637	0.05	0.23	0.140
1800	-009	0.07	126.76	7617	7637	0.05	0.22	0.136
1900	-009	0.07	133.80	7617	7637	0.05	0.21	0.131
2000	-009	0.06	140.85	7617	7637	0.05	0.20	0.127
2100	-010	0.04	147.85	7616	7634	0.04	0.19	0.116
2200	-010	0.03	154.85	7616	7633	0.04	0.18	0.114
2300	-010	0.00	161.85	7616	7630	0.04	0.16	0.101
2400	-011	-0.04	168.80	7616	7626	0.03	0.12	0.079
2500	-011	-0.07	175.76	7616	7624	0.03	0.10	0.066
2600	-012	-0.12	182.76	7615	7619	0.03	0.05	0.039
2700	-012	-0.12	189.76	7615	7619	0.03	0.05	0.039
2800	-012	-0.12	196.76	7615	7619	0.03	0.05	0.039
2900	-012	-0.08	203.76	7615	7623	0.03	0.09	0.057
3000	-011	-0.01	210.76	7616	7629	0.03	0.15	0.092
3100	-011	0.03	217.76	7616	7633	0.03	0.18	0.110
3200	-010	0.06	224.76	7616	7635	0.04	0.21	0.127
3300	-008	0.08	231.76	7618	7637	0.06	0.23	0.145
3400	-007	0.10	238.76	7619	7639	0.07	0.25	0.158
3500	-007	0.12	245.76	7619	7641	0.07	0.26	0.166
3600	-006	0.13	252.76	7620	7641	0.08	0.27	0.175
3700	-006	0.14	259.76	7620	7642	0.08	0.28	0.180
3800	-006	0.14	266.76	7620	7642	0.08	0.28	0.180
3900	-007	0.12	273.76	7619	7641	0.07	0.26	0.166
4000	-003	0.10	280.76	7618	7639	0.06	0.25	0.153
4100	-009	0.07	287.76	7617	7636	0.05	0.22	0.136
4200	-010	0.03	294.76	7616	7633	0.04	0.18	0.114
4300	-010	0.00	301.76	7616	7630	0.04	0.16	0.101
4400	-012	-0.10	308.76	7615	7621	0.03	0.07	0.048
4500	-012	-0.10	315.76	7615	7621	0.03	0.07	0.048
4600	-012	-0.06	322.76	7615	7625	0.03	0.11	0.066
4700	-011	-0.01	329.76	7616	7629	0.03	0.15	0.092
4800	-010	0.05	336.76	7616	7634	0.04	0.20	0.123
4900	-010	0.08	343.76	7616	7637	0.04	0.23	0.136
5000	-008	0.10	350.76	7618	7639	0.06	0.25	0.153
5100	-007	0.13	357.76	7619	7641	0.07	0.27	0.171
5200	-006	0.15	364.76	7620	7643	0.08	0.29	0.184
5300	-005	0.17	371.76	7621	7645	0.09	0.31	0.197
5400	-005	0.19	378.76	7621	7647	0.09	0.33	0.206
5500	-004	0.20	385.76	7622	7648	0.09	0.33	0.215
5600	-004	0.21	392.76	7622	7648	0.09	0.34	0.219
5700	-004	0.21	399.76	7622	7648	0.09	0.34	0.219
5800	-004	0.21	406.76	7622	7648	0.09	0.34	0.219
5900	-005	0.21	413.76	7621	7648	0.09	0.34	0.215
6000	-006	0.19	420.76	7620	7647	0.08	0.33	0.202
6100	-007	0.18	427.76	7619	7646	0.07	0.32	0.193
6200	-008	0.16	434.76	7618	7644	0.06	0.30	0.180

**Tab.A-4-15 Data Sheet of Deformation Test of Drillhole PHELL18TP
29.3m (3/3)**

Pressure(p.s.i.)	Indicator Reading		Pressure(kgf/cm ²)	Diameter(mm)		Deformation(mm)		Deformation Average(mm)
	near	far		near	far	near	far	
1000	-0.09	0.13	70.42	76.17	76.41	0.05	0.27	0.162
500	-0.10	0.09	35.21	76.16	76.38	0.04	0.24	0.140
250	-0.10	0.05	17.61	76.16	76.34	0.04	0.20	0.123
0	-0.12	0.00	0.00	76.15	76.30	0.03	0.16	0.092
0	-0.12	-0.07	0.00	76.15	76.24	0.03	0.10	0.061
0	-0.12	-0.07	0.00	76.15	76.24	0.03	0.10	0.061
500	-0.11	0.01	35.21	76.16	76.31	0.03	0.17	0.101
1000	-0.10	0.06	70.42	76.16	76.35	0.04	0.21	0.127
2000	-0.08	0.12	140.85	76.18	76.41	0.06	0.26	0.162
3000	-0.06	0.17	211.27	76.20	76.45	0.08	0.31	0.193
4000	-0.04	0.22	281.69	76.22	76.49	0.09	0.35	0.223
4500	-0.03	0.24	316.90	76.22	76.51	0.10	0.37	0.236
5000	-0.02	0.27	352.11	76.23	76.54	0.11	0.40	0.254
5000	-0.02	0.28	352.11	76.23	76.55	0.11	0.40	0.258
4500	-0.02	0.28	316.90	76.23	76.55	0.11	0.40	0.258
4000	-0.02	0.26	281.69	76.23	76.53	0.11	0.39	0.250
3000	-0.03	0.23	211.27	76.22	76.50	0.10	0.36	0.232
2000	-0.05	0.17	140.85	76.21	76.45	0.09	0.31	0.197
1000	-0.07	0.11	70.42	76.19	76.40	0.07	0.26	0.162
500	-0.03	0.07	35.21	76.18	76.36	0.06	0.22	0.140
250	-0.1	-0.06	17.61	76.16	76.25	0.04	0.11	0.074
0	-0.1	-0.06	0.00	76.16	76.25	0.04	0.11	0.074
0	-0.12	-0.28	0.00	76.15	76.25	0.03	0.11	0.066
0	-0.12	-0.06	0.00	76.15	76.25	0.03	0.11	0.066
100	-0.12	-0.06	7.04	76.15	76.25	0.03	0.11	0.066
200	-0.11	-0.05	14.08	76.16	76.26	0.03	0.11	0.074
400	-0.11	-0.01	28.17	76.16	76.29	0.03	0.15	0.092
600	-0.11	0.03	42.25	76.16	76.33	0.03	0.18	0.110
800	-0.11	0.08	56.34	76.16	76.35	0.03	0.21	0.123
1000	-0.1	0.08	70.42	76.16	76.37	0.04	0.23	0.136
1200	-0.1	0.1	84.51	76.16	76.39	0.04	0.25	0.145
1400	-0.09	0.11	98.59	76.17	76.40	0.05	0.26	0.153
1600	-0.09	0.12	112.68	76.17	76.41	0.05	0.26	0.158
1800	-0.09	0.13	126.76	76.17	76.41	0.05	0.27	0.162
2000	-0.08	0.14	140.85	76.18	76.42	0.06	0.28	0.171
2200	-0.08	0.15	154.93	76.18	76.43	0.06	0.29	0.175
2400	-0.07	0.16	169.01	76.19	76.44	0.07	0.30	0.184
2450	-0.07	0.16	172.54	76.19	76.44	0.07	0.30	0.184
2500	-0.07	0.17	176.06	76.19	76.45	0.07	0.31	0.188
2450	-0.07	0.17	172.54	76.19	76.45	0.07	0.31	0.188
2400	-0.07	0.17	169.01	76.19	76.45	0.07	0.31	0.188
2200	-0.07	0.17	154.93	76.19	76.45	0.07	0.31	0.188
2000	-0.07	0.16	140.85	76.19	76.44	0.07	0.30	0.184
1800	-0.08	0.15	126.76	76.18	76.43	0.06	0.29	0.175
1600	-0.08	0.14	112.68	76.18	76.42	0.06	0.28	0.171
1400	-0.08	0.13	98.59	76.18	76.41	0.06	0.27	0.167
1200	-0.09	0.11	84.51	76.17	76.40	0.05	0.26	0.153
1000	-0.09	0.10	70.42	76.17	76.39	0.05	0.25	0.149
800	-0.09	0.09	56.34	76.17	76.38	0.05	0.24	0.145
600	-0.10	0.08	42.25	76.16	76.37	0.04	0.23	0.136
400	-0.10	0.03	28.17	76.16	76.35	0.04	0.18	0.114
200	-0.11	-0.02	14.08	76.16	76.28	0.03	0.14	0.088
100	-0.11	-0.05	7.04	76.16	76.26	0.03	0.11	0.074
0	-0.12	-0.08	0.00	76.15	76.23	0.03	0.09	0.057

Data sheet was offered by ICE.

Tab.A-4-16 Data Sheet of Deformation Test of Drillhole PHLL18TP 29.5m (1/3)

Equipment : Goodman Jack 700kg/cm²
 Date : 1995.02.23
 Direction : Perpendicular to Rio Paquita
 Rock Species : Conglomerate
 Diameter : 76.20mm
 Poisson Ratio : 0.25
 Efficiency : 0.93

Pressure (p.s.i.)	Indicator Reading		Pressure (kg/cm ²)	Diameter (mm)		Deformation (mm)		Deformation Average (mm)
	near	far		near	far	near	far	
0	-0.56	-0.02	0.00	75.77	76.28	0.00	0.00	0.000
50	-0.56	-0.02	3.52	75.77	76.28	0.00	0.00	0.000
100	-0.55	-0.01	7.04	75.78	76.29	0.01	0.01	0.009
150	-0.55	-0.01	10.56	75.78	76.29	0.01	0.01	0.009
200	-0.54	0.00	14.08	75.79	76.30	0.02	0.02	0.017
200	-0.54	0.00	14.08	75.79	76.30	0.02	0.02	0.017
150	-0.54	0.00	10.56	75.79	76.30	0.02	0.02	0.017
100	-0.54	0.00	7.04	75.79	76.30	0.02	0.02	0.017
50	-0.55	0.00	3.52	75.78	76.30	0.01	0.02	0.013
0	-0.56	0.00	0.00	75.77	76.30	0.00	0.02	0.009
0	-0.56	0.00	0.00	75.77	76.30	0.00	0.02	0.009
0	-0.56	0.00	0.00	75.77	76.30	0.00	0.02	0.009
50	-0.58	0.00	3.52	75.77	76.30	0.00	0.02	0.009
100	-0.55	0.00	7.04	75.78	76.30	0.01	0.02	0.013
200	-0.54	0.00	14.08	75.79	76.30	0.02	0.02	0.017
300	-0.53	0.00	21.13	75.79	76.30	0.03	0.03	0.022
400	-0.52	0.00	28.17	75.80	76.30	0.03	0.02	0.026
450	-0.51	0.00	31.69	75.81	76.30	0.04	0.02	0.030
500	-0.50	0.00	35.21	75.82	76.30	0.05	0.02	0.035
500	-0.50	0.00	35.21	75.82	76.30	0.05	0.02	0.035
450	-0.50	0.00	31.69	75.82	76.30	0.05	0.02	0.035
400	-0.50	0.00	28.17	75.82	76.30	0.05	0.02	0.035
300	-0.51	0.00	21.13	75.81	76.30	0.04	0.02	0.030
200	-0.52	0.00	14.08	75.80	76.30	0.03	0.02	0.026
100	-0.54	0.00	7.04	75.79	76.30	0.02	0.02	0.017
50	-0.55	0.00	3.52	75.78	76.30	0.01	0.02	0.013
0	-0.55	0.00	0.00	75.78	76.30	0.01	0.02	0.013
0	-0.55	0.00	0.00	75.78	76.30	0.01	0.02	0.013
50	-0.55	0.00	3.52	75.78	76.30	0.01	0.02	0.013
100	-0.55	0.00	7.04	75.78	76.30	0.01	0.02	0.013
200	-0.53	0.00	14.08	75.79	76.30	0.03	0.02	0.022
400	-0.51	0.00	28.17	75.81	76.30	0.04	0.02	0.030
600	-0.48	0.01	42.25	75.84	76.31	0.07	0.03	0.048
800	-0.45	0.02	56.34	75.86	76.32	0.09	0.04	0.065
900	-0.44	0.02	63.38	75.87	76.32	0.10	0.04	0.069
950	-0.43	0.02	66.90	75.88	76.32	0.11	0.04	0.074
1000	-0.42	0.02	70.42	75.89	76.32	0.12	0.04	0.078
1000	-0.42	0.02	70.42	75.89	76.32	0.12	0.04	0.078
950	-0.42	0.02	66.90	75.89	76.32	0.12	0.04	0.078
900	-0.42	0.02	63.38	75.89	76.32	0.12	0.04	0.078
800	-0.42	0.02	56.34	75.89	76.32	0.12	0.04	0.078
600	-0.45	0.02	42.25	75.86	76.32	0.09	0.04	0.065
400	-0.48	0.01	28.17	75.84	76.31	0.07	0.03	0.048
200	-0.51	0.01	14.08	75.81	76.31	0.04	0.03	0.035
100	-0.52	0.00	7.04	75.80	76.30	0.03	0.02	0.026
50	-0.54	0.00	3.52	75.79	76.30	0.02	0.02	0.017
0	-0.54	0.00	0.00	75.79	76.30	0.02	0.02	0.017

Data sheet was offered by ICE.

Tab.A-4-16 Data Sheet of Deformation Test of Drillhole PHELL18TP
29.5m (2/3)

Pressure(p.s.i.)	Indicator Reading		Pressure(kg/cm2)	Diameter(mm)		Deformation(mm)		Deformation Average(mm)
	near	far		near	far	near	far	
0	-0.54	0.00	0.00	75.79	76.30	0.02	0.02	0.017
0	-0.54	0.00	0.00	75.79	76.30	0.02	0.02	0.017
100	-0.53	0.00	7.04	75.79	76.30	0.03	0.02	0.022
200	-0.52	0.00	14.08	75.80	76.30	0.03	0.02	0.026
300	-0.50	0.00	28.17	75.82	76.30	0.05	0.02	0.035
400	-0.45	0.01	42.25	75.86	76.31	0.09	0.03	0.060
500	-0.44	0.02	56.34	75.87	76.32	0.10	0.04	0.069
600	-0.41	0.02	70.42	75.90	76.32	0.13	0.04	0.082
700	-0.38	0.03	84.51	75.92	76.33	0.15	0.04	0.099
800	-0.36	0.03	98.59	75.94	76.33	0.17	0.04	0.108
900	-0.33	0.03	112.68	75.97	76.33	0.20	0.04	0.121
1000	-0.33	0.04	126.76	76.00	76.34	0.23	0.05	0.143
1100	-0.28	0.05	140.85	76.01	76.34	0.24	0.06	0.151
1200	-0.26	0.05	140.85	76.03	76.34	0.26	0.06	0.160
1300	-0.25	0.05	140.85	76.04	76.34	0.27	0.06	0.164
1400	-0.24	0.05	133.80	76.04	76.34	0.28	0.06	0.168
1500	-0.23	0.05	126.76	76.05	76.34	0.28	0.06	0.173
1600	-0.24	0.05	112.68	76.04	76.34	0.28	0.06	0.168
1700	-0.25	0.04	98.59	76.04	76.34	0.27	0.05	0.160
1800	-0.27	0.04	84.51	76.02	76.34	0.25	0.05	0.151
1900	-0.29	0.03	70.42	76.00	76.33	0.23	0.04	0.138
2000	-0.33	0.03	56.34	75.97	76.33	0.20	0.04	0.121
2100	-0.35	0.02	42.25	75.95	76.32	0.18	0.04	0.108
2200	-0.37	0.02	28.17	75.93	76.32	0.16	0.04	0.099
2300	-0.40	0.01	14.08	75.91	76.31	0.14	0.03	0.082
2400	-0.41	0.01	7.04	75.90	76.31	0.13	0.03	0.078
2500	-0.42	0.01	0.00	75.89	76.31	0.12	0.03	0.073
2600	-0.42	0.00	0.00	75.89	76.30	0.12	0.02	0.069
2700	-0.42	0.00	0.00	75.89	76.30	0.12	0.02	0.069
2800	-0.38	0.00	17.61	75.92	76.30	0.15	0.02	0.086
2900	-0.36	0.00	35.21	75.94	76.30	0.17	0.02	0.095
3000	-0.30	0.01	70.42	75.99	76.31	0.22	0.03	0.125
3100	-0.24	0.02	105.63	76.04	76.32	0.28	0.04	0.155
3200	-0.20	0.03	140.85	76.08	76.33	0.31	0.04	0.177
3300	-0.15	0.04	176.06	76.12	76.34	0.35	0.05	0.203
3400	-0.13	0.06	193.66	76.14	76.35	0.37	0.07	0.220
3500	-0.10	0.07	211.27	76.16	76.36	0.40	0.08	0.237
3600	-0.10	0.07	211.27	76.16	76.36	0.40	0.08	0.237
3700	-0.10	0.07	193.66	76.16	76.36	0.40	0.08	0.237
3800	-0.11	0.07	176.06	76.16	76.36	0.39	0.08	0.233
3900	-0.15	0.06	140.85	76.12	76.35	0.35	0.07	0.212
4000	-0.19	0.05	105.63	76.09	76.34	0.32	0.06	0.190
4100	-0.26	0.03	70.42	76.03	76.33	0.26	0.04	0.151
4200	-0.32	0.02	35.21	75.97	76.32	0.21	0.04	0.121
4300	-0.35	0.01	17.61	75.95	76.31	0.18	0.03	0.103
4400	-0.38	0.01	0.00	75.92	76.31	0.15	0.03	0.091
4500	-0.38	0.01	0.00	75.92	76.31	0.15	0.03	0.091
4600	-0.38	0.01	0.00	75.92	76.31	0.15	0.03	0.091
4700	-0.37	0.01	17.61	75.93	76.31	0.16	0.03	0.095
4800	-0.34	0.01	35.21	75.96	76.31	0.19	0.03	0.108
4900	-0.28	0.03	70.42	76.01	76.33	0.24	0.04	0.142
5000	-0.22	0.04	105.63	76.06	76.34	0.29	0.05	0.173
5100	-0.17	0.05	140.85	76.10	76.34	0.34	0.06	0.199
5200	-0.12	0.06	176.06	76.15	76.35	0.38	0.07	0.224
5300	-0.09	0.08	211.27	76.17	76.37	0.40	0.09	0.246
5400	-0.06	0.09	246.48	76.20	76.38	0.43	0.10	0.263
5500	-0.03	0.09	264.08	76.22	76.38	0.46	0.10	0.276
5600	-0.03	0.10	281.69	76.22	76.39	0.46	0.11	0.281
5700	-0.03	0.10	281.69	76.22	76.39	0.46	0.11	0.281
5800	-0.06	0.10	264.08	76.20	76.39	0.43	0.11	0.263
5900	-0.09	0.10	246.48	76.17	76.39	0.40	0.11	0.255
6000	-0.09	0.09	211.27	76.14	76.38	0.37	0.10	0.233
6100	-0.18	0.08	176.06	76.10	76.37	0.33	0.09	0.207
6200	-0.23	0.06	140.85	76.05	76.35	0.28	0.07	0.177
6300	-0.30	0.05	105.63	75.99	76.34	0.22	0.06	0.143

Data sheet was offered by ICE.

Tab.A-4-16 Data Sheet of Deformation Test of Drillhole PHLL18TP
29.5m (3/3)

Pressure(p.s.i.)	Indicator Reading		Pressure(kg/cm2)	Diameter(mm)		Deformation(mm)		Deformation Average(mm)
	near	far		near	far	near	far	
1000	0.34	0.04	70.42	75.96	76.34	0.19	0.05	0.121
750	0.36	0.02	35.21	75.92	76.32	0.15	0.04	0.095
250	-0.37	0.01	17.61	75.93	76.31	0.16	0.03	0.095
0	-0.37	0.01	0.00	75.93	76.31	0.16	0.03	0.095
0	-0.37	0.01	0.00	75.93	76.31	0.16	0.03	0.095
0	-0.37	0.01	0.00	75.93	76.31	0.16	0.03	0.095
500	-0.33	0.02	35.21	75.97	76.32	0.20	0.04	0.117
1000	-0.27	0.03	70.42	76.02	76.33	0.25	0.04	0.147
2000	-0.15	0.05	140.85	76.12	76.34	0.35	0.06	0.207
3000	-0.07	0.08	211.27	76.19	76.37	0.42	0.09	0.255
4000	-0.02	0.10	281.69	76.23	76.39	0.46	0.11	0.285
4500	0.00	0.12	316.90	76.25	76.41	0.48	0.12	0.302
5000	0.02	0.13	352.11	76.27	76.41	0.50	0.13	0.315
5000	0.02	0.13	352.11	76.27	76.41	0.50	0.13	0.315
4500	0.02	0.13	316.90	76.27	76.41	0.50	0.13	0.315
4000	0.01	0.12	281.69	76.26	76.41	0.49	0.12	0.307
3000	0	0.11	211.27	76.25	76.40	0.48	0.11	0.298
2000	-0.11	0.07	140.85	76.16	76.36	0.39	0.08	0.233
1000	-0.23	0.04	70.42	76.05	76.34	0.28	0.05	0.168
500	-0.29	0.02	35.21	76.00	76.32	0.23	0.04	0.134
250	-0.3	0.01	17.61	75.99	76.31	0.22	0.03	0.125
0	-0.36	0.01	0.00	75.94	76.31	0.17	0.03	0.099
0	-0.36	0.01	0.00	75.94	76.31	0.17	0.03	0.099
0	-0.38	0.01	0.00	75.94	76.31	0.17	0.03	0.099
100	-0.35	0.01	7.04	75.95	76.31	0.18	0.03	0.103
200	-0.35	0.01	14.08	75.95	76.31	0.18	0.03	0.103
400	-0.33	0.02	28.17	75.97	76.32	0.20	0.04	0.117
600	-0.3	0.02	42.25	75.99	76.32	0.22	0.04	0.129
800	-0.28	0.03	56.34	76.01	76.33	0.24	0.04	0.142
1000	-0.26	0.03	70.42	76.03	76.33	0.26	0.04	0.151
1200	-0.23	0.04	84.51	76.05	76.34	0.28	0.05	0.168
1400	-0.21	0.04	98.59	76.07	76.34	0.30	0.05	0.177
1800	-0.18	0.05	112.68	76.10	76.34	0.33	0.06	0.194
1800	-0.16	0.05	126.76	76.11	76.34	0.34	0.06	0.203
2300	-0.14	0.06	140.85	76.13	76.35	0.36	0.07	0.216
2200	-0.12	0.06	154.93	76.15	76.35	0.38	0.07	0.224
2400	-0.10	0.07	169.01	76.16	76.36	0.40	0.08	0.237
2450	-0.10	0.07	172.54	76.16	76.36	0.40	0.08	0.237
2500	-0.09	0.07	176.06	76.17	76.36	0.40	0.08	0.242
2450	-0.10	0.07	172.54	76.16	76.36	0.40	0.08	0.237
2400	-0.09	0.07	169.01	76.17	76.36	0.40	0.08	0.242
2200	-0.12	0.07	154.93	76.15	76.36	0.38	0.08	0.229
2000	-0.14	0.06	140.85	76.13	76.35	0.36	0.07	0.216
1600	-0.16	0.06	126.76	76.11	76.35	0.34	0.07	0.207
1600	-0.17	0.05	112.68	76.10	76.34	0.34	0.06	0.199
1400	-0.19	0.05	98.59	76.09	76.34	0.32	0.06	0.190
1200	-0.21	0.04	84.51	76.07	76.34	0.30	0.05	0.177
1000	-0.24	0.04	70.42	76.04	76.34	0.28	0.05	0.164
800	-0.26	0.03	56.34	76.03	76.33	0.26	0.04	0.151
600	-0.28	0.03	42.25	76.01	76.33	0.24	0.04	0.142
400	-0.31	0.02	28.17	75.98	76.32	0.22	0.04	0.125
200	-0.34	0.01	14.08	75.96	76.31	0.19	0.03	0.108
100	-0.35	0.01	7.04	75.95	76.31	0.18	0.03	0.103
0	-0.37	0.01	0.00	75.93	76.31	0.16	0.03	0.095

Data sheet was offered by ICE.