

附表1 岩石波速—压力关系
Attached table 1 Relationship between velocity and pressure

样品编号	岩性		压力 /MPa														
			20	35	50	75	100	130	160	200	250	300	350	400	450	500	
D01-2-1	绢云母千枚岩	X	升压	6.32	6.40	6.43	6.48	6.51	6.53	6.56	6.59	6.62	6.64	6.67	6.70		
			降压	6.43	6.45	6.48	6.51	6.53	6.56	6.59	6.62	6.64	6.67	6.69	6.70		
		Z	升压	6.03	6.07	6.12	6.17	6.22	6.24	6.27	6.29	6.32	6.35	6.37	6.40		
			降压	6.12	6.15	6.17	6.19	6.22	6.24	6.27	6.29	6.32	6.35	6.37	6.40		
		M	升压	6.23	6.29	6.32	6.38	6.41	6.44	6.46	6.49	6.52	6.55	6.57	6.60		
			降压	6.33	6.35	6.38	6.40	6.43	6.45	6.48	6.51	6.53	6.56	6.58	6.60		
		A(%)	升压	4.70	5.25	4.84	4.85	4.46	4.56	4.50	4.60	4.54	4.49	4.60	4.56		
			降压	4.90	4.72	4.86	5.00	4.82	4.96	4.94	5.07	4.90	4.88	4.86	4.55		
D02-1-1	绢云母千枚岩	X	升压	5.77	5.83	5.90	5.97	6.04	6.12	6.15	6.19	6.23	6.27	6.31	6.35	6.39	6.43
			降压	5.94	5.97	6.01	6.04	6.08	6.12	6.15	6.19	6.23	6.27	6.31	6.35	6.39	6.43
		Y	升压	5.64	5.71	5.77	5.84	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.19	6.22
			降压	5.77	5.80	5.84	5.87	5.90	5.94	5.97	6.01	6.04	6.08	6.11	6.15	6.19	6.22
		M	升压	5.71	5.77	5.84	5.91	5.97	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33
			降压	5.86	5.89	5.93	5.96	5.99	6.03	6.06	6.10	6.14	6.18	6.21	6.25	6.29	6.33
		A(%)	升压	2.28	2.08	2.23	2.20	2.35	2.99	2.97	2.95	3.10	3.08	3.22	3.20	3.18	3.32
			降压	2.90	2.89	2.87	2.85	3.01	2.99	2.97	2.95	3.10	3.08	3.22	3.20	3.18	3.32
D03-1-1	变质长石石英砂岩	X	升压	5.22	5.27	5.33	5.39	5.44	5.50	5.53	5.56	5.59	5.63	5.66	5.69	5.72	5.75
			降压	5.36	5.39	5.41	5.44	5.47	5.50	5.53	5.56	5.59	5.63	5.66	5.69	5.72	5.75
		Z	升压	4.41	4.52	4.65	4.78	4.88	4.93	4.95	4.98	5.00	5.03	5.05	5.10	5.15	5.18
			降压	4.81	4.83	4.85	4.88	4.90	4.93	4.95	4.98	5.00	5.03	5.05	5.10	5.15	5.18
		M	升压	4.95	5.02	5.10	5.19	5.25	5.31	5.34	5.37	5.39	5.43	5.46	5.49	5.53	5.56
			降压	5.18	5.20	5.22	5.25	5.28	5.31	5.34	5.37	5.39	5.43	5.46	5.49	5.53	5.56
		A(%)	升压	16.36	14.94	13.32	11.76	10.66	10.73	10.87	10.81	10.94	11.05	11.18	10.74	10.31	10.25
			降压	10.62	10.76	10.72	10.66	10.80	10.73	10.87	10.81	10.94	11.05	11.18	10.74	10.31	10.25
D07-1-1	轻变质硅质岩	X	升压	6.13	6.18	6.23	6.29	6.34	6.39	6.45	6.47	6.50	6.53	6.56	6.59		
			降压	6.29	6.31	6.34	6.37	6.39	6.42	6.45	6.47	6.50	6.53	6.56	6.59		
		Y	升压	6.02	6.07	6.12	6.17	6.22	6.27	6.32	6.38	6.41	6.43	6.46	6.49		
			降压	6.19	6.22	6.25	6.27	6.30	6.32	6.35	6.38	6.41	6.43	6.46	6.49		
		Z	升压	5.97	6.02	6.05	6.10	6.16	6.18	6.21	6.24	6.27	6.30	6.32	6.35	6.38	6.44
			降压	6.07	6.10	6.13	6.16	6.18	6.21	6.24	6.27	6.30	6.32	6.35	6.38	6.41	6.44
		M	升压	6.04	6.09	6.13	6.19	6.24	6.28	6.33	6.36	6.39	6.42	6.45	6.48		
			降压	6.18	6.21	6.24	6.27	6.29	6.32	6.35	6.37	6.40	6.43	6.46	6.49		
A(%)	升压	2.65	2.63	2.93	3.07	2.88	3.34	3.79	3.61	3.60	3.58	3.72	3.71				
	降压	3.56	3.38	3.37	3.35	3.34	3.32	3.31	3.14	3.12	3.27	3.25	3.24				
FJ001	变质粗砂岩	Y	升压	5.65	5.69	5.73	5.77	5.82	5.84	5.88	5.93	5.95	5.98	6.00	6.02	6.05	6.07
			降压	5.77	5.80	5.82	5.84	5.86	5.88	5.91	5.93	5.95	5.98	6.00	6.02	6.05	6.07
		Z	升压	5.43	5.47	5.51	5.55	5.59	5.63	5.67	5.71	5.76	5.80	5.84	5.89		
			降压	5.53	5.55	5.57	5.59	5.61	5.63	5.67	5.71	5.76	5.80	5.84	5.89		
		M	升压	5.58	5.62	5.66	5.70	5.74	5.77	5.81	5.86	5.89	5.92	5.95	5.98		
			降压	5.69	5.72	5.74	5.76	5.78	5.80	5.83	5.86	5.89	5.92	5.95	5.98		
		A(%)	升压	3.95	3.92	3.89	3.86	4.00	3.64	3.61	3.76	3.23	3.04	2.69	2.18		
			降压	4.22	4.37	4.36	4.34	4.33	4.31	4.12	3.76	3.23	3.04	2.69	2.18		
FJ002-1	绢云母化粉砂岩	X	升压	5.72	5.77	5.81	5.86	5.91	5.93	5.96	5.98	6.01	6.03	6.06	6.08	6.11	6.14
			降压	5.81	5.84	5.86	5.89	5.91	5.93	5.96	5.98	6.01	6.03	6.06	6.08	6.11	6.14
		Y	升压	5.33	5.37	5.41	5.45	5.49	5.53	5.55	5.57	5.59	5.61	5.63	5.65		
			降压	5.43	5.45	5.47	5.49	5.51	5.53	5.55	5.57	5.59	5.61	5.63	5.65		
		M	升压	5.53	5.57	5.61	5.66	5.70	5.73	5.76	5.78	5.80	5.82	5.85	5.87		
			降压	5.62	5.65	5.67	5.69	5.71	5.73	5.76	5.78	5.80	5.82	5.85	5.87		
		A(%)	升压	7.06	7.18	7.13	7.25	7.37	6.98	7.12	7.10	7.24	7.22	7.36	7.33		
			降压	6.76	6.91	6.88	7.03	7.01	6.98	7.12	7.10	7.24	7.22	7.36	7.33		
FJ2501	岩屑砂砾岩	Y	升压	5.37	5.43	5.48	5.54	5.60	5.64	5.67	5.70	5.73	5.76	5.80	5.83	5.86	5.90
			降压	5.48	5.51	5.54	5.57	5.60	5.64	5.67	5.70	5.73	5.76	5.80	5.83	5.86	5.90

附表2 实测 V_p 拟合结果
Attached table 2 Fitting results of measured velocity

样品号	P_c /Mpa	$V=a(\ln P)^2+b\ln P+c(P \leq P_c)$			$V=V_0+DP(P \geq P_c)$	
		a	b	c	V_0	D
		/Km*s ⁻¹ *Mpa ⁻²	/Km*s ⁻¹ *Mpa ⁻¹	/Km*s ⁻¹	/Km*s ⁻¹	/10 ⁻⁴ *Km*s ⁻¹ *Mpa ⁻¹
D01-2-1-X	280	0.0303	-0.1847	6.709	6.474	5.598
D01-2-1-Z	310	0.0293	-0.1829	6.433	6.199	4.931
M	298	0.0302	-0.1869	6.592	6.375	4.412
D02-1-1-X	268	0.0417	-0.2531	6.354	6.032	7.950
D02-1-1-Y	248	0.0375	-0.2225	6.126	5.861	7.208
M	269	0.0391	-0.2337	6.230	5.944	7.595
D03-1-1-X	325	0.0373	-0.2378	5.769	5.452	5.948
D03-1-1-Z	148	0.0229	-0.1277	4.999	4.834	6.715
M	187	0.0270	-0.1566	5.329	5.127	6.747
D07-1-1-X	234	0.0284	-0.1729	6.580	6.354	5.862
D07-1-1-Y	296	0.0299	-0.1813	6.492	6.272	5.376
D07-1-1-Z	268	0.0307	-0.1829	6.370	6.154	5.654
M	282	0.0301	-0.1841	6.495	6.264	5.504
FJ001-Y	301	0.0265	-0.1650	6.053	5.840	4.584
FJ001-Z	280	0.0172	-0.0881	5.647	5.522	5.713
M	176	0.0303	-0.1947	5.990	5.686	6.725
FJ002-X	263	0.0267	-0.1610	6.078	5.876	5.206
FJ002-Y	303	0.0220	-0.1367	5.668	5.496	3.786
M	279	0.0368	-0.2209	6.097	5.829	6.926
FJ2501-Y	234	0.0343	-0.2027	5.803	5.563	6.675

附表3 矿物 C_{ij} 、 S_{ij} 参数 (GPa)
Attached table 3 Subscript ij in modulus C_{ij} 、 S_{ij} (GPa)

矿物	C_{11}	C_{22}	C_{33}	C_{44}	C_{55}	C_{66}	C_{12}	C_{13}	C_{23}	参考文献
石英	86.60	86.60	106.10	57.80	57.80	39.95	6.70	12.60	12.60	Bass J D, 1995.
钠长石	74.00	131.00	128.00	17.30	29.60	32.00	36.40	39.40	31.00	
奥长石	80.80	163.00	124.00	18.70	27.10	35.70	37.90	52.90	32.70	
拉长石	99.40	158.00	150.00	21.70	34.50	37.10	62.80	48.70	26.70	
白云母	184.30	178.40	59.10	16.00	17.60	72.40	48.30	23.80	21.70	
方解石	144.00	144.00	84.00	33.50	33.50	45.05	53.90	51.10	51.10	
伊利石	161.24	158.28	72.07	30.91	31.47	58.86	42.19	33.31	33.34	Wenk, 2007
	122.59	117.03	62.47	21.56	21.85	42.83	33.87	29.48	29.07	
	147.38	142.69	66.32	24.75	25.22	52.18	40.66	33.03	32.92	
	171.80	171.80	25.20	11.50	11.50	68.10	35.60	4.10	4.10	
高岭石	178.50	200.90	32.10	11.20	22.20	60.10	71.50	2.00	-2.90	SATO, 2005
	185.90	185.90	83.70	14.80	14.80	58.80	68.20	5.30	5.30	Sayers, 2016
石英	0.0115	0.0115	0.0094	0.0173	0.0173	0.0250	-0.0009	-0.0013	-0.0014	Bass J D. 1995.
钠长石	0.0135	0.0076	0.0078	0.0578	0.0338	0.0313	-0.0038	-0.0033	-0.0018	
奥长石	0.0124	0.0061	0.0081	0.0535	0.0369	0.0280	-0.0029	-0.0045	-0.0016	
拉长石	0.0101	0.0063	0.0067	0.0461	0.0290	0.0270	-0.0040	-0.0026	-0.0011	
白云母	0.0054	0.0056	0.0169	0.0625	0.0568	0.0138	-0.0015	-0.0016	-0.0021	
方解石	0.0069	0.0069	0.0119	0.0299	0.0299	0.0222	-0.0026	-0.0026	-0.0042	
伊利石	0.0062	0.0063	0.0139	0.0324	0.0318	0.0170	-0.0017	-0.0021	-0.0029	Wenk, 2007
	0.0082	0.0085	0.0160	0.0464	0.0458	0.0233	-0.0024	-0.0028	-0.0040	
	0.0068	0.0070	0.0151	0.0404	0.0397	0.0192	-0.0019	-0.0024	-0.0035	
	0.0058	0.0058	0.0397	0.0870	0.0870	0.0147	-0.0012	-0.0008	-0.0009	
高岭石	0.0056	0.0050	0.0312	0.0893	0.0450	0.0166	-0.0020	-0.0005	0.0004	SATO, 2005
	0.0054	0.0054	0.0119	0.0676	0.0676	0.0170	-0.0020	-0.0002	-0.0003	Sayers, 2016

附表4 理论计算波速
Attached table 4 Theoretical calculation of velocity

编号	岩性	密度	VV			VR			VH			VG		
			K(GPa)	G(GPa)	V _p (km/s)	K(GPa)	G(GPa)	V _p (km/s)	K(GPa)	G(GPa)	V _p (km/s)	K(GPa)	G(GPa)	V _p (km/s)
D01-2-1	绢云母千枚岩	2.69	63.62	37.47	6.50	62.22	36.47	6.42	62.92	36.97	6.46	63.00	36.94	6.46
			63.02	36.92	6.46	61.59	35.93	6.38	62.30	36.43	6.42	62.38	36.39	6.43
			63.41	37.19	6.48	62.03	36.23	6.40	62.72	36.71	6.44	62.80	36.67	6.45
			62.86	37.33	6.47	61.37	36.36	6.39	62.11	36.84	6.43	62.19	36.81	6.44
D02-1-1	绢云母千枚岩	2.71	64.25	37.17	6.49	63.35	37.21	6.46	63.80	37.19	6.47			
			63.83	36.80	6.46	62.89	36.84	6.43	63.36	36.82	6.45			
			64.12	36.99	6.47	63.22	37.05	6.45	63.67	37.02	6.46			
			63.73	37.07	6.47	62.74	37.13	6.44	63.23	37.10	6.45			
D03-1-1	变质长石石英砂岩	2.72	57.55	38.85	6.34	63.22	43.67	6.68	60.38	41.26	6.51			
			56.28	37.68	6.26	61.85	42.07	6.58	59.07	39.87	6.42			
			57.11	38.25	6.30	62.81	42.96	6.64	59.96	40.60	6.48			
			55.94	38.55	6.28	61.38	38.95	6.45	58.66	38.75	6.37			
D07-1-1	轻变质硅质岩	2.72	57.95	35.64	6.23	59.31	36.66	6.31	58.63	36.15	6.27			
			57.57	35.30	6.20	58.98	36.34	6.29	58.27	35.82	6.24			
			57.83	35.47	6.22	59.21	36.52	6.30	58.52	35.99	6.26			
			57.47	35.55	6.21	58.86	36.60	6.29	58.17	36.07	6.25			
FJ001	变质粗砂岩	2.75	50.23	35.47	5.95	62.11	51.14	6.88	56.17	43.31	6.43			
			46.19	31.99	5.68	58.13	45.10	6.55	52.16	38.54	6.13			
			48.92	33.68	5.84	60.95	48.37	6.75	54.94	41.03	6.31			
			45.18	33.38	5.71	56.92	49.73	6.69	51.05	41.56	6.22			
FJ002-1	绿泥石化粉砂岩	2.73	53.71	41.17	6.31	58.47	48.01	6.70	56.09	44.59	6.51			
			50.80	38.56	6.12	55.78	43.88	6.48	53.29	41.22	6.30			
			52.73	39.83	6.23	57.70	46.16	6.61	55.22	42.99	6.43			
			50.05	40.48	6.18	54.94	47.07	6.57	52.49	43.78	6.38			
FJ2501	岩屑砂砾岩	2.68	50.20	36.38	6.07	60.47	45.22	6.71	55.34	40.80	6.40			
			47.32	33.73	5.87	57.70	41.56	6.50	52.51	37.65	6.19			
			49.22	35.04	5.98	59.64	43.57	6.63	54.43	39.30	6.32			
			46.56	35.66	5.93	56.80	44.42	6.58	51.68	40.04	6.26			
D01-2-1	绢云母千枚岩	2.69	79.40	30.77	6.69	70.86	30.17	6.43	75.13	30.47	6.56	75.12	30.45	6.56
			79.25	30.28	6.67	70.56	29.78	6.40	74.91	30.03	6.54	75.13	30.03	6.55
			79.32	30.48	6.68	70.79	29.97	6.42	75.06	30.22	6.55	75.04	30.24	6.55
			77.00	29.81	6.59	63.94	29.05	6.18	70.47	29.43	6.39	71.15	29.42	6.41
D02-1-1	绢云母千枚岩	2.71	88.25	32.27	6.97	77.59	32.24	6.68	82.92	32.26	6.82			
			88.03	31.94	6.95	77.35	31.95	6.66	82.69	31.95	6.80			
			88.20	32.08	6.96	77.54	32.10	6.67	82.87	32.09	6.81			
			86.55	31.63	6.90	71.97	31.39	6.49	79.26	31.51	6.69			
D03-1-1	变质长石石英砂岩	2.72	57.80	30.30	6.01	61.49	33.40	6.24	59.65	31.85	6.13			
			57.52	29.27	5.96	61.00	32.40	6.19	59.26	30.84	6.07			
			57.63	29.69	5.98	61.38	32.90	6.22	59.50	31.29	6.10			
			52.73	28.27	5.76	51.25	30.63	5.82	51.99	29.45	5.79			
D07-1-1	轻变质硅质岩	2.72	75.00	30.97	6.54	70.48	31.86	6.45	72.74	31.42	6.49			
			74.99	30.69	6.53	70.30	31.60	6.43	72.64	31.15	6.48			
			74.96	30.80	6.53	70.44	31.73	6.44	72.70	31.27	6.49			
			73.65	30.41	6.48	66.23	31.11	6.29	69.94	30.76	6.39			
FJ001	变质粗砂岩	2.75	49.60	33.14	5.83	60.06	41.74	6.48	54.83	37.44	6.17			
			48.45	30.05	5.67	60.91	37.67	6.35	54.68	33.86	6.02			
			49.09	31.31	5.74	59.75	39.50	6.39	54.42	35.40	6.07			
			34.21	27.07	5.05	38.02	31.38	5.38	36.12	29.23	5.22			
FJ002-1	绿泥石化粉砂岩	2.73	51.55	34.06	5.96	56.16	37.82	6.25	53.86	35.94	6.11			
			50.48	31.73	5.83	56.26	35.21	6.15	53.37	33.47	6.00			
			51.17	32.69	5.90	55.95	36.42	6.19	53.56	34.56	6.05			
			39.84	29.51	5.39	40.48	30.88	5.47	40.16	30.19	5.43			
FJ2501	岩屑砂砾岩	2.68	57.35	32.45	6.13	64.71	39.57	6.62	61.03	36.01	6.38			
			56.45	30.13	6.01	65.34	36.74	6.53	60.89	33.43	6.27			
			56.96	31.08	6.06	64.43	38.03	6.56	60.70	34.56	6.31			
			45.76	27.90	5.56	44.92	32.03	5.72	45.34	29.97	5.64			

续附表4

编号	岩性	密度	HV			HR			HH			HG		
			K(GPa)	G(GPa)	V _p (km/s)	K(GPa)	G(GPa)	V _p (km/s)	K(GPa)	G(GPa)	V _p (km/s)	K(GPa)	G(GPa)	V _p (km/s)
D01-2-1	绢云母千枚岩	2.69	71.51	34.14	6.60	68.04	33.57	6.48	69.78	33.86	6.54	69.86	33.84	6.54
			71.14	33.62	6.57	67.73	33.11	6.45	69.44	33.37	6.51	69.50	33.35	6.51
			71.37	33.86	6.58	67.91	33.35	6.46	69.64	33.60	6.52	69.72	33.59	6.53
			69.93	33.59	6.53	65.36	33.07	6.38	67.64	33.33	6.46	67.78	33.32	6.46
D02-1-1	绢云母千枚岩	2.71	76.25	34.73	6.73	71.86	34.94	6.62	74.06	34.83	6.67			
			75.93	34.38	6.71	71.50	34.60	6.59	73.72	34.49	6.65			
			76.16	34.54	6.72	71.77	34.78	6.61	73.96	34.66	6.66			
			75.14	34.36	6.69	69.74	34.57	6.54	72.44	34.46	6.61			
D03-1-1	变质长石石英砂岩	2.72	57.68	34.58	6.18	63.18	38.86	6.50	60.43	36.72	6.34			
			56.91	33.48	6.11	62.64	37.58	6.44	59.77	35.53	6.27			
			57.37	33.97	6.14	62.93	38.24	6.47	60.15	36.11	6.31			
			54.34	33.41	6.03	58.47	37.48	6.31	56.40	35.44	6.17			
D07-1-1	轻变质硅质岩	2.72	66.48	33.31	6.39	66.04	34.46	6.42	66.26	33.88	6.40			
			66.30	33.00	6.37	65.94	34.17	6.40	66.12	33.59	6.39			
			66.39	33.14	6.38	65.97	34.32	6.41	66.18	33.73	6.39			
			65.58	32.98	6.35	64.58	34.15	6.36	65.08	33.57	6.36			
FJ001	变质粗砂岩	2.75	49.92	34.31	5.89	61.75	46.86	6.72	55.83	40.58	6.32			
			46.86	30.95	5.66	59.99	41.74	6.48	53.43	36.35	6.08			
			49.01	32.50	5.79	61.07	44.30	6.60	55.04	38.40	6.21			
			39.23	30.75	5.40	49.87	41.35	6.17	44.55	36.05	5.80			
FJ002-1	绿泥石化粉砂岩	2.73	52.63	37.62	6.14	57.72	43.31	6.51	55.18	40.46	6.33			
			50.64	35.14	5.98	56.41	39.90	6.34	53.53	37.52	6.16			
			51.95	36.27	6.07	57.27	41.65	6.43	54.61	38.96	6.25			
			44.94	34.99	5.80	49.36	39.64	6.12	47.15	37.31	5.96			
FJ2501	岩屑砂砾岩	2.68	53.78	34.42	6.10	63.50	42.65	6.70	58.64	38.54	6.41			
			51.89	31.95	5.94	62.06	39.35	6.54	56.97	35.65	6.25			
			53.09	33.06	6.02	62.95	41.04	6.63	58.02	37.05	6.33			
			46.16	31.80	5.75	53.61	39.09	6.28	49.88	35.44	6.02			
D01-2-1	绢云母千枚岩	2.69	70.27	33.84	6.55	67.15	33.29	6.44	68.71	33.57	6.49	68.80	33.55	6.50
			69.90	33.33	6.52	66.88	32.85	6.41	68.39	33.09	6.47	68.46	33.07	6.47
			70.12	33.55	6.53	67.02	33.08	6.43	68.57	33.32	6.48	68.65	33.30	6.49
			68.58	33.21	6.48	64.12	32.69	6.33	66.35	32.95	6.40	66.52	32.93	6.41
D02-1-1	绢云母千枚岩	2.71	74.60	34.53	6.68	70.81	34.75	6.58	72.71	34.64	6.63			
			74.27	34.18	6.66	70.43	34.41	6.56	72.35	34.30	6.61			
			74.51	34.34	6.67	70.71	34.59	6.57	72.61	34.47	6.62			
			73.40	34.10	6.63	68.39	34.30	6.49	70.90	34.20	6.56			
D03-1-1	变质长石石英砂岩	2.72	57.25	34.16	6.15	62.76	38.35	6.47	60.01	36.26	6.31			
			56.49	33.07	6.08	62.29	37.12	6.41	59.39	35.09	6.25			
			56.94	33.55	6.11	62.51	37.75	6.44	59.72	35.65	6.28			
			53.68	32.81	5.98	57.40	36.70	6.25	55.54	34.76	6.12			
D07-1-1	轻变质硅质岩	2.72	65.38	33.12	6.35	65.23	34.27	6.39	65.30	33.70	6.37			
			65.21	32.82	6.33	65.16	34.00	6.37	65.19	33.41	6.35			
			65.29	32.95	6.34	65.15	34.14	6.38	65.22	33.55	6.36			
			64.42	32.75	6.31	63.57	33.90	6.33	64.00	33.32	6.32			
FJ001	变质粗砂岩	2.75	49.70	35.54	5.94	61.42	46.41	6.69	55.56	40.98	6.32			
			47.21	32.27	5.72	59.78	41.41	6.46	53.49	36.84	6.10			
			48.75	33.74	5.83	60.71	43.90	6.58	54.73	38.82	6.22			
			38.85	31.52	5.42	48.09	39.91	6.06	43.47	35.71	5.75			
FJ002-1	绿泥石化粉砂岩	2.73	52.45	37.28	6.12	57.51	42.81	6.48	54.98	40.05	6.31			
			50.43	34.82	5.96	56.23	39.49	6.32	53.33	37.15	6.14			
			51.75	35.93	6.05	57.04	41.19	6.41	54.39	38.56	6.23			
			44.19	34.25	5.74	48.02	38.46	6.04	46.10	36.36	5.89			
FJ2501	岩屑砂砾岩	2.68	53.29	34.27	6.08	63.01	42.43	6.68	58.15	38.35	6.39			
			50.92	31.76	5.90	61.67	39.17	6.52	56.29	35.46	6.22			
			52.58	32.91	6.00	62.45	40.83	6.61	57.52	36.87	6.31			
			44.64	31.19	5.67	51.89	38.16	6.19	48.27	34.67	5.94			

附表5 误差分析
Attached table 5 Error analysis

编号	岩性	密度	速度 (km/s, P=300MPa)	RV	V _e	RR	V _e	RH	V _e	RG	V _e
D01-2-1	绢云母千枚岩	2.69	6.51	6.50	0.00	6.42	1.40	6.46	0.79	6.46	0.70
				6.46	0.62	6.38	2.00	6.42	1.38	6.43	1.30
				6.48	0.31	6.40	1.62	6.44	1.03	6.45	0.94
				6.47	0.46	6.39	1.84	6.43	1.22	6.44	1.13
D02-1-1	绢云母千枚岩	2.71	6.17	6.49	4.68	6.46	4.72	6.47	4.92		
				6.46	4.70	6.43	4.28	6.45	4.49		
				6.47	4.94	6.45	4.57	6.46	4.75		
				6.47	4.81	6.44	4.39	6.45	4.60		
D03-1-1	变质长石石英砂岩	2.72	5.33	6.34	18.93	6.68	25.34	6.51	22.18		
				6.26	17.38	6.58	23.52	6.42	20.49		
				6.30	18.25	6.64	24.64	6.48	21.49		
				6.28	17.83	6.45	21.07	6.37	19.46		
D07-1-1	轻变质硅质岩	2.72	6.43	6.23	3.14	6.31	1.89	6.27	2.52		
				6.20	3.52	6.29	2.24	6.24	2.88		
				6.22	3.30	6.30	2.03	6.26	2.66		
				6.21	3.41	6.29	2.14	6.25	2.77		
FJ001	变质粗砂岩	2.75	5.89	5.95	1.02	6.88	16.77	6.43	9.18		
				5.68	3.58	6.55	11.24	6.13	4.09		
				5.84	0.91	6.75	14.58	6.31	7.11		
				5.71	3.12	6.69	13.55	6.22	5.55		
FJ002-1	绿泥石化粉砂岩	2.73	5.82	6.31	8.45	6.70	15.17	6.51	11.86		
				6.12	5.21	6.48	11.25	6.30	8.27		
				6.23	7.06	6.61	13.64	6.43	10.40		
				6.18	6.14	6.57	12.90	6.38	9.57		
FJ2501	岩屑砂砾岩	2.68	5.80	6.07	4.66	6.71	15.76	6.40	10.35		
				5.87	1.20	6.50	12.04	6.19	6.76		
				5.98	3.18	6.63	14.30	6.32	8.88		
				5.93	2.20	6.58	13.47	6.26	7.98		
D01-2-1	绢云母千枚岩	2.69	6.51	6.69	2.78	6.43	1.29	6.56	0.77	6.56	0.83
				6.67	2.44	6.40	1.65	6.54	0.41	6.55	0.58
				6.68	2.58	6.42	1.43	6.55	0.59	6.55	0.67
				6.59	1.20	6.18	5.10	6.39	1.90	6.41	1.53
D02-1-1	绢云母千枚岩	2.71	6.17	6.97	12.90	6.68	8.20	6.82	10.57		
				6.95	12.61	6.66	7.91	6.80	10.29		
				6.96	12.76	6.67	8.09	6.81	10.45		
				6.90	11.79	6.49	5.12	6.69	8.51		
D03-1-1	变质长石石英砂岩	2.72	5.33	6.01	12.71	6.24	17.11	6.13	14.93		
				5.96	11.76	6.19	16.10	6.07	13.95		
				5.98	12.14	6.22	16.68	6.10	14.43		
				5.76	8.15	5.82	9.14	5.79	8.65		
D07-1-1	轻变质硅质岩	2.72	6.43	6.54	1.72	6.45	0.25	6.49	0.98		
				6.53	1.54	6.43	0.01	6.48	0.78		
				6.53	1.59	6.44	0.15	6.49	0.88		
				6.48	0.79	6.29	2.11	6.39	0.65		
FJ001	变质粗砂岩	2.75	5.89	5.83	0.94	6.48	10.04	6.17	4.70		
				5.67	3.76	6.35	7.84	6.02	2.21		
				5.74	2.51	6.39	8.46	6.07	3.12		
				5.05	14.23	5.38	8.58	5.22	11.36		
FJ002-1	绿泥石化粉砂岩	2.73	5.82	5.96	2.47	6.25	7.44	6.11	4.99		
				5.83	0.24	6.15	5.72	6.00	3.01		
				5.90	1.30	6.19	6.39	6.05	3.88		
				5.39	7.40	5.47	5.96	5.43	6.68		
FJ2501	岩屑砂砾岩	2.68	5.80	6.13	5.67	6.62	14.17	6.38	10.00		
				6.01	3.55	6.53	12.63	6.27	8.19		
				6.06	4.50	6.56	13.04	6.31	8.85		
				5.56	4.06	5.72	1.39	5.64	2.71		

续附表5

编号	岩性	密度	速度 (km/s, P=300MPa)	RV	V _e	RR	V _e	RH	V _e	RG	V _e
D01-2-1	绢云母千枚岩	2.69	6.51	6.60	1.32	6.48	0.53	6.54	0.40	6.54	0.50
				6.57	0.86	6.45	0.94	6.51	0.03	6.51	0.06
				6.58	1.09	6.46	0.72	6.52	0.19	6.53	0.29
				6.53	0.32	6.38	2.02	6.46	0.84	6.46	0.72
D02-1-1	绢云母千枚岩	2.71	6.17	6.73	9.08	6.62	7.24	6.67	8.16		
				6.71	8.73	6.59	6.87	6.65	7.80		
				6.72	8.92	6.61	7.10	6.66	8.01		
				6.69	8.36	6.54	6.05	6.61	7.21		
D03-1-1	变质长石石英砂岩	2.72	5.33	6.18	15.86	6.50	21.96	6.34	18.95		
				6.11	14.61	6.44	20.77	6.27	17.73		
				6.14	15.24	6.47	21.40	6.31	18.36		
				6.03	13.10	6.31	18.43	6.17	15.80		
D07-1-1	轻变质硅质岩	2.72	6.43	6.39	0.68	6.42	0.19	6.40	0.43		
				6.37	0.94	6.40	0.41	6.39	0.67		
				6.38	0.82	6.41	0.30	6.39	0.56		
				6.35	1.28	6.36	1.03	6.36	1.15		
FJ001	变质粗砂岩	2.75	5.89	5.89	0.05	6.72	14.02	6.32	7.26		
				5.66	3.97	6.48	10.01	6.08	3.26		
				5.79	1.70	6.60	12.12	6.21	5.44		
				5.40	8.37	6.17	4.82	5.80	1.55		
FJ002-1	绿泥石化粉砂岩	2.73	5.82	6.14	5.51	6.51	11.82	6.33	8.71		
				5.98	2.76	6.34	8.95	6.16	5.90		
				6.07	4.22	6.43	10.53	6.25	7.42		
				5.80	0.40	6.12	5.21	5.96	2.44		
FJ2501	岩屑砂砾岩	2.68	5.80	6.10	5.17	6.70	15.57	6.41	10.49		
				5.94	2.40	6.54	12.73	6.25	7.69		
				6.02	3.84	6.63	14.27	6.33	9.18		
				5.75	0.87	6.28	8.32	6.02	3.83		
D01-2-1	绢云母千枚岩	2.69	6.51	6.55	0.61	6.44	1.08	6.49	0.24	6.50	0.13
				6.52	0.14	6.41	1.47	6.47	0.66	6.47	0.56
				6.53	0.38	6.43	1.27	6.48	0.44	6.49	0.34
				6.48	0.51	6.33	2.80	6.40	1.65	6.41	1.51
D02-1-1	绢云母千枚岩	2.71	6.17	6.68	8.23	6.58	6.64	6.63	7.44		
				6.66	7.87	6.56	6.27	6.61	7.07		
				6.67	8.07	6.57	6.50	6.62	7.29		
				6.63	7.43	6.49	5.26	6.56	6.35		
D03-1-1	变质长石石英砂岩	2.72	5.33	6.15	15.32	6.47	21.38	6.31	18.39		
				6.08	14.06	6.41	20.25	6.25	17.20		
				6.11	14.68	6.44	20.82	6.28	17.79		
				5.98	12.26	6.25	17.28	6.12	14.80		
D07-1-1	轻变质硅质岩	2.72	6.43	6.35	1.28	6.39	0.66	6.37	0.97		
				6.33	1.54	6.37	0.86	6.35	1.20		
				6.34	1.43	6.38	0.78	6.36	1.10		
				6.31	1.94	6.33	1.63	6.32	1.79		
FJ001	变质粗砂岩	2.75	5.89	5.94	0.80	6.69	13.59	6.32	7.38		
				5.72	2.83	6.46	9.69	6.10	3.62		
				5.83	0.96	6.58	11.70	6.22	5.56		
				5.42	8.01	6.06	2.96	5.75	2.37		
FJ002-1	绿泥石化粉砂岩	2.73	5.82	6.12	5.18	6.48	11.40	6.31	8.33		
				5.96	2.42	6.32	8.59	6.14	5.55		
				6.05	3.88	6.41	10.11	6.23	7.04		
				5.74	1.35	6.04	3.70	5.89	1.21		
FJ2501	岩屑砂砾岩	2.68	5.80	6.08	4.81	6.68	15.20	6.39	10.12		
				5.90	1.73	6.52	12.43	6.22	7.21		
				6.00	3.46	6.61	13.89	6.31	8.80		
				5.67	2.18	6.19	6.79	5.94	2.40		

附表6 X射线衍射分析结果
Attached table 6 X-ray Diffraction Analysis Results

编号	岩性	石英	钠长石	奥长石	拉长石	正长石	白云母	伊利石	高岭石	方解石	绿泥石	磷铝矿	水钠锰矿	钙锰矾矿
D01-2-1	绢云母千枚岩	6.90	33.50	15.60	0.00	0.00	35.90	4.70	0.60	2.80	0.00	0.00	0.00	0.00
D02-1-1	绢云母千枚岩	10.20	28.60	5.00	28.30	0.00	23.60	3.10	0.00	0.00	1.20	0.00	0.00	0.00
D03-1-1	变质长石石英砂岩	15.00	16.70	0.00	0.00	0.00	50.30	10.00	1.40	0.00	3.10	3.50	0.00	0.00
D07-1-1	轻变质硅质岩	15.30	46.30	11.20	0.00	0.00	20.80	2.80	0.60	0.00	0.00	3.00	0.00	0.00
FJ001	变质粗砂岩	28.20	0.00	0.00	0.00	0.00	25.80	29.70	3.10	0.00	2.80	0.00	1.30	9.10
FJ002-1	绿泥石化粉砂岩	29.80	0.00	0.00	0.00	0.00	38.90	22.20	1.60	0.00	1.70	5.80	0.00	0.00
FJ2501	岩屑砂砾岩	26.60	23.50	0.00	0.00	2.40	13.80	22.30	2.20	0.00	2.40	3.80	0.00	0.00