

Appendix Table 2. Original Porosity of the Upper Paleozoic Shanxi Formation and Shihezi Formation Sandstones

Well Name	Member	Depth (m)	Lithology	p25/p75	Sorting Factor, S ₀	Original Porosity, φ ₀ (%)	Present Porosity, φ ₁ (%)
Li7	He-8	4045.81	Quartzarenite	1.70	1.31	38.45	7.72
Li7	He-8	4053.06	Sublitharenite	1.58	1.26	39.14	8.69
Li7	He-8	4055.55	Sublitharenite	1.57	1.25	39.20	7.61
Su249	He-8	4004.45	Sublitharenite	1.88	1.37	37.61	6.50
Su252	Shan-1	4298.71	Sublitharenite	1.70	1.30	38.49	5.80
Su252	Shan-1	4299.39	Sublitharenite	1.89	1.37	37.57	6.50
Su304	He-8	3751.75	Quartzarenite	1.75	1.32	38.21	8.49
Su305	He-8	4206.17	Quartzarenite	1.51	1.23	39.53	5.42
Su307	He-8	4472.17	Quartzarenite	1.55	1.24	39.32	6.10
Su307	He-8	4474.30	Quartzarenite	1.54	1.24	39.36	7.10
Su307	He-8	4477.38	Quartzarenite	1.60	1.26	39.02	6.47
Su315	He-8	3750.65	Sublitharenite	1.84	1.36	37.80	7.80
Su338	He-8	3812.35	Quartzarenite	1.58	1.26	39.12	9.20
Su339	He-8	3858.46	Sublitharenite	1.67	1.29	38.64	2.70
Su403	He-8	3816.00	Sublitharenite	1.55	1.24	39.31	7.60
Su403	He-8	3837.00	Sublitharenite	1.55	1.25	39.30	10.60
Su403	Shan-1	3859.00	Sublitharenite	1.77	1.33	38.13	7.60
Su403	Shan-1	3859.50	Sublitharenite	1.64	1.28	38.78	10.20
Su407	He-8	4240.46	Sublitharenite	1.62	1.27	38.91	5.68
Su407	He-8	4244.13	Sublitharenite	1.65	1.28	38.74	7.00
Su408	Shan-1	4163.40	Sublitharenite	1.61	1.27	38.93	6.40
Su411	He-8	4072.13	Sublitharenite	1.65	1.28	38.75	8.50
Su411	Shan-1	4093.71	Litharenite	1.52	1.23	39.48	6.00
Tianshen1	He-8	3758.80	Litharenite	1.63	1.40	38.83	10.90
Yutan1	Shan-1	3695.85	Litharenite	1.69	1.30	38.54	9.55

$\phi_0 = 20.91 + 22.90/S_0$ (Beard and Weyl, 1973).

Abbreviations: He-8 = Shihezi Formation; Shan-1 = Shanxi Formation.