Table. S3: Sandstone framework data and calculated percentages for south Sistan basin sandstones

Sam No:	13AM206		13AM186		13AM166		13AM157		13AM293		13AM246		13AM237		12AM123		13AM224		13AM135		13AM218		12AM124		13AM263		13AM252		13AM280		12AM134		12AM97		12AM94		12AM105	
	grains	%		%		%		%		%		%		%		%		%		%		%		%		%		%		%		%		%		%		%
Qm	49	15.3	84	21.6	122	32.7	110	32.9	142	36.4	145	35.9	133	31.7	93	31	120	35.4	81	27	186	41.3	135	35.81	137	37.2	110	32.4	102	31.0	122	31.7	125	36.8	82	27.3	104	34.6
Qp	7	2.2	18	4.6	19	5.1	39	11.7	28	7.2	14	3.5	18	4.3	17	5.6	15	4.4	15	5	14	3.1	23	6.10	11	3.0	11	3.2	17	5.0	19	4.9	18	5.3	12	4	13	4.3
Qt	3	0.9	3	0.8	7	1.9	3	0.9	5	1.3	5	1.2	6	1.4	1	0.3	6	1.8	1	0.3	4	0.9	4	1.06	4	1.1	5	1.5	5	1.5	4	1.0	3	0.9	0	0	1	0.3
C	1	0.3	5	1.3	12	3.2	7	2.1	13	3.3	18	4.5	11	2.6	15	5	9	2.7	5	1.6	9	2.0	16	4.24	11	3.0	20	5.9	11	3.0	10	2.6	14	4.1	4	1.3	7	2.3
P	31	9.7	72	18.6	82	22.0	68	20.4	90	23.1	87	21.5	92	21.9	74	25	75	22.1	86	28.6	112	24.9	78	20.74	90	24.5	75	22.1	53	15.5	90	23.4	74	21.8	88	29.4	44	14.6
K	3	0.9	6	1.5	9	2.4	8	2.4	7	1.8	9	2.2	11	2.6	3	1	7	2.1	2	0.6	8	1.8	9	2.39	8	2.2	8	2.4	7	2.0	7	1.8	7	2.1	2	0.6	2	0.6
Lv	201	62.6	150	38.7	60	16.1	55	16.5	37	9.5	61	15.1	70	16.7	30	10	50	14.7	45	15	55	12.2	42	11.54	35	9.5	50	14.7	46	13.4	60	15.6	38	11.2	26	8.6	33	11
Ls	19	5.9	26	6.7	41	11.0	38	11.4	27	6.9	41	10.1	49	11.7	38	13	35	10.3	47	15.6	44	9.8	47	12.47	51	13.9	43	12.6	53	15.3	48	12.5	41	12.1	71	23.6	80	26.6
Tqm	2	0.6	4	1.0	4	1.1	1	0.3	4	1.0	4	1.0	4	1.0	0	0	4	1.2	4	1.3	3	0.7	4	1.00	6	1.6	4	1.2	5	1.0	3	0.8	3	0.9	3	1	4	1.3
Mp	2	0.6	9	2.3	13	3.5	2	0.6	21	5.4	15	3.7	16	3.8	16	5.3	10	2.9	8	2.6	3	0.7	9	2.00	7	1.9	12	3.5	22	6.4	9	2.3	8	2.4	8	2.6	9	3
M	3	0.9	11	2.8	4	1.1	3	0.9	16	4.1	5	1.2	10	2.4	13	4.3	8	2.4	6	2	12	2.7	10	2.65	8	2.2	2	0.6	22	6.0	13	3.4	9	2.6	4	1.3	3	1
Total	321	100	388	100	373	100	334	100	390	100	404	100	420	100	300	100	339	100	300	99.6	450	100	377	100	368	100	340	100	343	100	385	100	340	100	300	99.7	300	99.6

Sam No:	13AM206	13AM186	13AM166	13AM157	13AM293	13AM246	13AM237	12AM123	13AM224	13AM135	13AM218	12AM124	13AM263	13AM252	13AM280	12AM134	12AM97	12AM94	12AM105
Q = (Qm+Qp+Qt+C)	18.7	28.4	42.9	47.6	48.2	45.0	40.0	42.0	44.2	34.0	47.3	47.2	44.3	42.9	40.4	40.3	47.1	32.6	41.6
Qm	15.3	21.6	32.7	32.9	36.4	35.9	31.7	31.0	35.4	27.0	41.3	35.8	37.2	32.4	31.0	31.7	36.8	27.3	34.6
F = (P+K)	10.6	20.1	24.4	22.8	24.9	23.8	24.5	25.6	24.2	29.2	26.7	23.1	26.6	24.4	17.5	25.2	23.8	30.0	15.2
P	9.7	18.6	22.0	20.4	23.1	21.5	21.9	24.6	22.1	28.6	24.9	20.7	24.5	22.1	15.5	23.4	21.8	29.4	14.6
k	0.9	1.5	2.4	2.4	1.8	2.2	2.6	1.0	2.1	0.6	1.8	2.4	2.2	2.4	2.0	1.8	2.1	0.6	0.6
L = (Lv+Ls+Tqm+Mp)	69.8	48.7	31.6	28.7	22.8	30.0	33.1	28.0	29.2	34.6	23.3	27.0	26.9	32.1	36.1	31.2	26.5	35.8	42.0
Lt = (Lv+Ls+Tqm+Mp+ Qp+ Qt+C)	73.2	55.4	41.8	43.4	34.6	39.1	41.4	39.0	38.1	41.6	29.3	38.4	34.0	42.6	45.5	39.7	36.8	41.1	49.0
Lv	62.6	38.7	16.1	16.5	9.5	15.1	16.7	10.0	14.7	15.0	12.2	11.5	9.5	14.7	13.4	15.6	11.2	8.6	11.0
Ls = (Ls+C)	6.2	8.0	14.2	13.5	10.3	14.6	14.3	17.6	13.0	17.2	11.8	16.7	16.8	18.5	18.3	15.1	16.2	25.0	29.0
Lm = (Qp+Qt+Tqm+Mp)	4.4	8.8	11.5	13.5	14.9	9.4	10.5	11.3	10.3	9.3	5.3	10.2	7.6	9.4	13.8	9.1	9.4	7.6	6.2
Lsm = (Ls+Tqm+Mp)	7.2	10.1	15.5	12.3	13.3	14.9	16.4	18.0	14.5	19.6	11.1	15.5	17.4	17.4	22.7	15.6	15.3	27.2	30.6
Lq = (Qp+Qt+C)	3.4	6.7	10.2	14.7	11.8	9.2	8.3	11.0	8.8	7.0	6.0	11.4	7.1	10.6	9.4	8.6	10.3	5.3	7.0

Sam No:	13AM206	13AM186	13AM166	13AM157	13AM293	13AM246	13AM237	12AM123	13AM224	13AM135	13AM218	12AM124	13AM263	13AM252	13AM280	12AM134	12AM97	12AM94	12AM105
Q	18.9	29.2	43.4	48.0	50.3	45.6	41.0	44.0	45.3	34.8	48.6	48.5	45.3	43.2	43.0	41.7	48.3	33.1	42.1
F	10.7	20.7	24.7	23.0	25.9	24.1	25.1	26.8	24.8	29.9	27.4	23.8	27.2	24.6	18.6	26.1	24.5	30.5	15.4

L	70.4	50.1	32.0	29.0	23.8	30.3	33.9	29.3	29.9	35.4	24.0	27.7	27.5	32.2	38.4	32.3	27.2	36.4	42.5
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	1000
Qm	15.4	22.3	33.1	33.2	38.0	36.3	32.4	32.4	36.3	27.6	42.5	36.8	38.1	32.5	33.0	32.8	37.8	27.8	35.0
F	10.7	20.7	24.7	23.0	25.9	24.1	25.1	26.8	24.8	29.9	27.4	23.8	27.2	24.6	18.6	26.1	24.5	30.5	15.4
Lt	73.9	57.0	42.3	43.8	36.1	39.6	42.4	40.8	39.0	42.6	30.1	39.5	34.7	42.9	48.4	41.1	37.8	41.8	49.6
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Qm	59.0	51.9	57.3	59.1	59.4	60.2	56.4	54.8	59.4	48.1	60.8	60.8	58.3	57.0	63.9	55.7	60.7	47.6	69.5
P	37.3	44.4	38.5	36.6	37.7	36.1	39.0	43.5	37.1	50.9	36.6	35.2	38.3	38.9	31.9	41.1	35.9	51.3	29.3
K	3.6	3.7	4.2	4.3	2.9	3.7	4.7	1.8	3.5	1.1	2.6	4.1	3.4	4.1	4.2	3.2	3.4	1.0	1.2
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Lv	85.5	69.8	38.5	37.9	27.4	38.6	40.2	25.7	38.8	36.1	41.7	30.0	28.0	34.5	29.4	39.2	30.4	20.9	23.8
Ls	8.5	14.4	34.0	31.0	29.6	37.3	34.5	45.2	34.1	41.4	40.2	43.5	49.6	43.4	40.2	37.9	44.0	60.7	62.8
Lm	6.0	15.8	27.6	31.0	43.0	24.1	25.3	29.0	27.1	22.4	18.2	26.5	22.4	22.1	30.4	22.9	25.6	18.5	13.4
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Qp	3.0	8.7	13.9	28.9	23.9	10.4	11.5	16.7	13.2	12.6	11.8	18.4	10.0	9.2	12.1	13.7	16.7	10.1	9.4
Lv	87.0	72.5	43.8	40.7	31.6	45.2	44.6	29.8	43.9	37.9	46.2	34.9	31.8	41.7	32.6	43.2	35.2	21.6	24.0
Lsm	10.0	18.8	42.3	30.4	44.4	44.4	43.9	53.58	43.0	49.49	42.0	46.7	58.2	49.2	55.3	43.2	48.1	68.34	66.62
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	99.9