

WHITE SPUR - GEOCHEMICAL FORMULAE & RATIOS

Sample	Hole	Depth	Rock	Zr / TiO ₂	Nb / Y	Ti	Ti / Zr	Al*	MI*	PI*	Na ₂ O / MgO	Ba / K ₂ O	Zn No.
376901	WSP5	291	HR	457	0.63	2752	13.1	42	103	41	216	577	0.63
376902	WSP5	299	HR	433	0.39	3410	13.9	59	91	65	70	244	0.62
376903	WSP5	310.7	FW	498	0.40	3351	12.0	69	47	146	43	278	0.63
376904	WSP5	319	FW	517	0.38	2932	11.6	34	134	25	481	436	0.60
376905	WSP5	330	FW	508	0.40	2992	11.8	33	119	28	332	433	0.61
376906	WSP5	338	FW	506	0.39	2992	11.9	32	105	31	271	694	0.81
376907	WSP5	350.3	FW	502	0.38	3111	12.0	48	103	47	187	318	0.75
376908	WSP5	361.5	FW	516	0.36	2872	11.6	52	100	52	125	270	0.66
376909	WSP5	370	FW	507	0.37	2752	11.8	49	111	44	173	309	0.94
376910	WSP5	382.7	FW	503	0.38	2992	11.9	34	112	30	345	329	0.72
376911	WSP6	366	HR	325	0.44	3745	18.5	46	104	44	147	344	0.80
376912	WSP6	373.6	HR	446	0.36	2992	13.5	44	115	38	126	448	0.85
376913	WSP6	383.9	FW	532	0.41	2872	11.3	56	69	80	116	747	0.92
376914	WSP6	394	FW	471	0.38	3171	12.7	18	173	11	799	446	0.74
376915	WSP6	405	FW	474	0.37	2872	12.7	31	150	21	495	328	0.63
376916	WSP6	413	FW	475	0.38	2992	12.6	40	118	34	344	238	0.64
376917	WSP6	422.5	FW	479	0.41	3351	12.5	41	140	29	414	171	0.89
376918	WSP6	433.7	FW	483	0.37	2932	12.4	45	117	38	277	329	0.89
376919	WSP6	445.3	FW	469	0.38	2992	12.8	42	117	36	240	308	0.69
376920	WSP311	220.3	HR	431	0.43	2340	13.9	59	74	80	104	1362	0.69
376921	WSP311	221.7	FW	817	0.46	1795	7.3	74	59	125	39	1054	0.69
376922	WSP311	232	FW	810	0.44	1795	7.4	35	176	20	569	567	0.68
376923	WSP311	244	FW	784	0.48	1855	7.6	54	116	47	227	305	0.70
376924	WSP311	252	FW	803	0.45	2034	7.5	40	149	27	476	415	0.65
376925	WSP311	262	FW	796	0.47	1795	7.5	45	153	29	214	272	0.80
376926	WSP13	451.5	HR	328	0.56	4644	18.3	42	111	38	219	506	0.67
376927	WSP13	454.9	FW	529	0.42	2636	11.3	51	99	52	156	863	0.86
376928	WSP13	465	FW	720	0.39	1974	8.3	23	218	11	1458	681	0.70
376929	WSP13	475	FW	550	0.42	2393	10.9	37	148	25	613	388	0.85
376930	WSP13	486	FW	551	0.58	2872	10.9	55	80	69	358	277	0.76
376931	WSP13	494	FW	471	0.39	2992	12.8	29	153	19	678	471	0.72
376932	WSP13	504.5	FW	469	0.41	3051	12.8	37	138	26	379	294	0.70
376933	WSP13	515	FW	467	0.38	2872	12.9	19	163	12	1075	468	0.83
376934	WSP13	526	FW	460	0.37	2992	13.0	49	89	55	171	437	0.91
376935	WSP13	535.3	FW	508	0.37	2692	11.8	61	68	89	53	348	0.92
376936	WSP13	545	FW	512	0.40	3351	11.7	62	56	110	106	509	0.91
376937	WSP4	346	HR	862	0.35	1795	7.0	57	93	62	150	251	0.57
376938	WSP4	348.8	FW	499	0.40	4224	12.0	72	54	132	44	317	0.80
376939	WSP4	359	FW	498	0.39	2932	12.1	33	151	22	286	574	0.88
376940	WSP4	370	FW	502	0.40	2872	12.0	29	175	17	767	478	0.79
376941	WSP4	380	FW	495	0.41	2812	12.1	26	172	15	710	514	0.88
376942	WSP4	389	FW	529	0.45	2633	11.3	26	162	16	695	674	0.90
376943	WSP4	399.3	FW	495	0.39	2872	12.1	51	108	47	204	280	0.90
376944	YWS1	356.6	HR	379	0.44	3540	15.8	60	45	133	79	450	0.73
376945	YWS1	366.5	HR	480	0.47	2812	12.5	45	121	37	138	858	0.78

* Al = Alteration Index: $100(K_2O + MgO) / (Na_2O + CaO + K_2O + MgO)$

MI = McKay Index: $100(Na_2O + CaO) / (Fe_2O_3 + MgO)$

PI = $100 Al / MI$

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Sample	Hole	Depth	Rock	Zr / TiO ₂	Nb / Y	Ti	Ti / Zr	Al*	MI*	PI*	Na ₂ O / MgO	Ba / K ₂ O	Zn No.
376946	YWS1	374.2	HR	494	0.47	2812	12.1	39	130	30	229	737	0.69
376947	YWS1	383.8	HR	485	0.48	2333	12.4	34	171	20	695	459	0.72
376948	YWS1	395.8	HR	496	0.43	2513	12.1	21	157	14	506	1706	0.78
376949	YWS1	401.7	HR	744	0.42	2214	8.1	76	48	157	69	1011	0.94
376950	YWS1	406.2	FW	498	0.40	3351	12.1	69	48	144	54	424	0.80
376951	YWS1	415.4	FW	445	0.42	3351	13.5	52	93	57	184	312	0.82
376952	YWS1	426.5	FW	496	0.41	2932	12.1	44	114	39	202	347	0.86
376953	WSP313	11	FW	808	0.49	1735	7.4	47	159	30	987	228	0.82
376954	WSP313	19.8	FW	775	0.49	1795	7.7	48	144	34	850	261	0.92
376955	WSP313	28.2	FW	789	0.44	1855	7.6	46	157	29	756	292	0.89
376956	WSP313	40	FW	817	0.46	2274	7.3	55	115	48	483	234	0.93
376957	WSP313	50	FW	793	0.44	1915	7.6	41	174	24	875	288	0.90
376958	WSP313	60.2	FW	750	0.46	2034	8.0	43	166	26	794	255	0.90
376959	WSP313	68.5	FW	749	0.44	2034	8.0	41	168	24	795	259	0.83
376960	WSP313	80.5	FW	761	0.43	1974	7.9	41	170	24	748	325	0.85
376961	WSP313	89.5	FW	771	0.46	1915	7.8	42	162	26	668	210	0.88
376962	WSP313	100	FW	768	0.45	2034	7.8	51	137	37	518	166	0.90
376963	WSP313	110	FW	757	0.45	1974	7.9	45	151	30	675	227	0.91
376964	WSP313	119.7	FW	762	0.46	1915	7.9	42	168	25	620	244	0.89
376965	WSP313	128	FW	764	0.43	2004	7.9	47	159	30	467	186	0.87
376966	WSP313	140	FW	769	0.47	1795	7.8	39	174	22	695	211	0.87
376967	WSP313	149	FW	770	0.52	1974	7.8	80	43	187	82	149	0.89
376968	WSP313	160.5	FW	764	0.52	1974	7.9	47	136	34	467	144	0.90
376969	WSP313	168.2	FW	763	0.45	1974	7.9	49	121	41	366	150	0.86
376970	WSP313	180.5	FW	760	0.50	2094	7.9	54	107	50	360	150	0.92
376971	WSP313	188.5	FW	785	0.47	1915	7.6	49	125	39	351	156	0.90
376972	WSP313	198.4	FW	766	0.45	1855	7.8	44	143	31	445	145	0.89
376973	WSP313	208.5	FW	755	0.46	2154	7.9	61	94	64	176	145	0.92
376974	WSP313	218.5	FW	754	0.43	1974	8.0	46	134	34	418	188	0.90
376975	WSP313	229.5	FW	727	0.47	2094	8.3	44	144	31	394	231	0.88
376976	WSP313	240	FW	739	0.47	1915	8.1	46	149	31	399	202	0.91
376977	WSP313	251	FW	753	0.42	1915	8.0	33	211	16	261	273	0.92
376978	WSP15	234.7	FW	494	0.35	2214	12.1	15	516	3	318	332	0.64
376979	WSP15	244	FW	443	0.39	3111	13.5	33	165	20	463	306	0.71
376980	WSP15	254	FW	526	0.47	2692	11.4	50	119	42	232	237	0.84
376981	WSP15	263.5	FW	580	0.44	2340	10.3	60	95	63	108	222	0.66
376982	WSP15	271.5	FW	816	0.50	1680	7.4	76	58	130	85	200	0.86
376983	WSP15	282	FW	797	0.49	1680	7.5	75	58	129	81	272	0.67
376984	WSP15	294.5	FW	810	0.46	1560	7.4	64	97	66	53	244	0.71
376985	WSP15	304	FW	804	0.45	1500	7.5	35	263	13	134	249	0.68
376986	WSP15	316	FW	784	0.50	2100	7.7	62	104	59	239	244	0.88
376987	WSP15	323.5	FW	780	0.45	1860	7.7	42	165	25	606	238	0.67
376988	WSP15	334	FW	788	0.43	1860	7.6	42	162	26	563	246	0.87
376989	WSP15	344	FW	790	0.48	1980	7.6	46	153	30	574	221	0.77
376990	WSP15	353	FW	815	0.47	1800	7.4	47	152	31	564	200	0.84
376991	WSP15	364	FW	817	0.48	1800	7.3	39	209	19	759	243	0.88
376992	WSP15	374	FW	812	0.48	1680	7.4	43	157	28	752	242	0.86
376993	WSP15	385	FW	786	0.49	1680	7.6	46	175	27	779	269	0.86

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Sample	Hole	Depth	Rock	Zr / TiO ₂	Nb / Y	Ti	Ti / Zr	Al*	Ml*	Pl*	Na ₂ O / MgO	Ba / K ₂ O	Zn No.
376994	WSP15	395	FW	795	0.42	1680	7.5	37	232	16	1010	290	0.84
376995	WSP14	448.7	HR	128	0.59	6060	46.8	38	100	38	386	220	0.74
376996	WSP14	455.25	FW	442	0.37	4320	13.6	68	54	125	35	291	0.89
376997	WSP14	465	FW	324	0.38	3300	18.5	37	91	41	69	737	0.91
376998	WSP14	476.5	FW	357	0.42	3240	16.8	39	88	45	68	620	0.91
376999	WSP14	485.3	FW	319	0.40	3300	18.8	35	100	35	77	532	0.92
377000	WSP14	493.6	FW	282	0.40	4680	21.3	44	70	63	72	483	0.94
377001	WSP9	465.5	HR	457	0.44	3240	13.1	64	52	122	37	639	0.77
377002	WSP9	474	HR	541	0.49	2880	11.1	40	144	28	315	362	0.45
377003	WSP9	477.7	FW	518	0.52	3060	11.6	35	137	25	457	354	0.92
377004	WSP9	488	FW	507	0.40	2520	11.8	14	217	6	932	557	0.81
377005	WSP9	498.5	FW	491	0.40	2940	12.2	49	107	46	142	271	0.90
377006	WSP9	506	FW	504	0.38	2880	11.9	36	122	29	195	282	0.82
377007	WSP10A	440	HR	436	0.53	4080	13.7	59	73	81	72	282	0.70
377008	WSP10A	444	FW	495	0.42	3480	12.1	66	57	115	34	298	0.69
377009	WSP10A	454	FW	509	0.40	3060	11.8	43	118	37	223	397	0.74
377010	WSP10A	463.6	FW	499	0.39	2880	12.0	40	122	33	222	442	0.82
377011	WSP10A	473	FW	493	0.43	3000	12.2	40	114	35	339	469	0.90
377012	WSP10A	485	FW	502	0.40	3060	12.0	50	101	50	182	307	0.69
377013	WSP10A	494	FW	509	0.40	3840	11.8	38	92	42	263	329	0.91
377014	WSP10A	504.6	FW	505	0.38	2760	11.9	50	103	49	177	303	0.89
377015	WSP10A	514	FW	498	0.41	3180	12.0	57	74	77	128	220	0.95
377016	WSP10A	523	FW	495	0.41	3180	12.1	49	90	55	156	210	0.85
377017	WSP10A	535	FW	527	0.42	2340	11.4	46	109	43	581	439	0.85
377018	WSP10A	544.2	FW	525	0.43	2220	11.4	47	137	34	849	314	0.89
377019	WSP10A	553	FW	522	0.43	2640	11.5	45	128	35	670	402	0.91
377020	WSP10A	564	FW	495	0.40	2880	12.1	36	126	29	298	189	0.92
377021	WSP10A	574	FW	498	0.39	2866	12.1	46	118	39	186	326	0.85
377022	WSP10A	582	FW	531	0.40	2328	11.3	63	97	64	443	254	0.88
377023	WSP10A	592	FW	505	0.38	2627	11.9	59	97	61	155	360	0.90
377024	WSP10A	603	FW	483	0.39	2940	12.4	23	155	15	674	338	0.89
377025	WSP10A	615.2	FW	516	0.40	2700	11.6	30	139	22	549	356	0.85
377026	WSP10A	624	FW	506	0.39	2760	11.8	31	122	25	537	420	0.83
377027	WSP11	242	FW	510	0.40	2640	11.8	45	136	33	261	197	0.87
377028	WSP11	251	FW	495	0.38	2640	12.1	32	159	20	486	372	0.91
377029	WSP11	261	FW	484	0.39	2220	12.4	17	460	4	125	223	0.93
377030	WSP11	273	FW	511	0.38	2806	11.7	37	152	25	351	229	0.77
377031	WSP11	280	FW	536	0.39	2760	11.2	39	136	29	314	213	0.76
377032	WSP11	290	FW	490	0.37	2700	12.2	21	184	11	898	584	0.11
377033	WSP8	249	HR	412	0.71	2040	14.6	57	89	64	193	308	0.60
377034	WSP8	259	HR	426	0.67	3120	14.1	49	82	60	112	308	0.61
377035	WSP8	265.7	FW	175	0.77	10022	34.3	43	71	60	249	245	0.59
377036	WSP8	275	FW	500	0.39	2640	12.0	36	146	25	394	463	0.70
377037	WSP8	285	FW	499	0.39	2820	12.0	42	123	34	232	531	0.61
377038	WSP8	295	FW	512	0.39	3300	11.7	66	57	116	100	248	0.64
377039	WSP8	304	FW	520	0.38	3045	11.5	32	116	28	367	475	0.71
377040	WSP8	314	FW	500	0.39	2985	12.0	50	106	47	181	284	0.73
377041	WSP8	324	FW	510	0.38	2580	11.8	48	107	45	243	316	0.59

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Sample	Hole	Depth	Rock	Zr / TiO ₂	Nb / Y	Ti	Ti / Zr	Al*	MI*	PI*	Na ₂ O / MgO	Ba / K ₂ O	Zn No.
377042	WSP8	334.5	FW	494	0.40	3450	12.2	57	79	72	138	429	0.73
377043	WSP8	344.5	FW	513	0.43	2910	11.7	40	102	39	225	310	0.63
377044	WSP8	355.5	FW	495	0.40	3420	12.1	66	53	125	45	204	0.70
377045	WSP8	365.5	FW	499	0.43	2460	12.0	51	129	40	538	391	0.76
377046	WSP8	375	FW	508	0.39	2640	11.8	21	171	12	343	442	0.86
377047	WSP8	384	FW	500	0.41	2640	12.0	55	79	69	211	352	0.77
377048	ANNE1	122.5	FW	281	0.43	4721	21.4	59	74	80	90	208	0.80
377049	ANNE1	130	FW	264	0.37	4920	22.7	54	67	81	67	187	0.55
377050	ANNE1	140	FW	288	0.36	3900	20.8	45	62	72	73	330	0.94
377051	ANNE1	149.2	FW	312	0.37	3463	19.2	37	83	45	128	454	0.94
377052	ANNE1	158	FW	330	0.41	4020	18.2	34	84	40	187	938	0.95
377053	ANNE1	170.3	FW	310	0.39	3780	19.4	42	82	51	141	713	0.94
377054	ANNE1	180.5	FW	322	0.38	3780	18.6	32	98	33	251	688	0.94
377055	ANNE1	192.5	FW	308	0.40	4260	19.5	36	78	47	252	587	0.89
377056	ANNE1	199.8	FW	316	0.40	4140	19.0	40	86	47	215	462	0.91
377057	ANNE1	212	FW	344	0.38	3480	17.4	24	112	22	358	815	0.93
377058	ANNE1	220	FW	338	0.40	3780	17.8	37	90	42	252	490	0.94
377059	ANNE1	228	FW	312	0.39	3600	19.3	38	90	42	199	584	0.63
377060	ANNE1	240	FW	323	0.41	3600	18.6	40	84	47	200	761	0.63
377061	ANNE1	250	FW	330	0.39	3480	18.2	41	88	47	169	466	0.94
377062	ANNE1	260	FW	389	0.49	3937	15.4	61	55	112	100	521	0.72
377063	ANNE1	271.5	FW	333	0.37	3540	18.0	37	87	43	201	684	0.85
377064	ANNE1	279	FW	333	0.37	3300	18.0	25	136	18	247	526	0.82
377065	ANNE1	291	FW	335	0.43	3420	17.9	42	86	49	139	461	0.83
377066	WSP12	224	HR	813	0.52	836	7.4	61	155	40	439	344	0.50
377067	WSP12	235	HR	839	0.55	900	7.1	53	244	22	1164	422	0.56
377068	WSP12	245	HR	833	0.50	836	7.2	54	198	27	1394	454	0.62
377069	WSP12	249.6	FW	471	0.34	3300	12.7	56	103	54	203	253	0.73
377070	WSP12	260	FW	455	0.35	3000	13.2	27	233	12	389	251	0.58
377071	WSP12	269.8	FW	487	0.37	3000	12.3	37	155	24	449	265	0.69
377072	WSP12	280	FW	465	0.36	3000	12.9	36	155	23	441	273	0.73
377073	WSP12	290	FW	471	0.40	2940	12.7	37	152	24	459	247	0.68
377074	WSP12	300	FW	474	0.40	3224	12.6	45	116	39	470	381	0.91
377075	WSP12	312	FW	462	0.39	3045	13.0	38	124	31	565	334	0.92
377076	WSP12	319.3	FW	466	0.37	3060	12.9	38	152	25	284	287	0.86
377077	WSP12	330	FW	450	0.35	3240	13.3	37	140	26	286	240	0.72
377078	WSP12	341	FW	453	0.40	3060	13.2	39	134	29	372	321	0.77
377079	WSP12	350.5	FW	482	0.39	3000	12.5	38	137	28	353	223	0.89
377080	WSP13	Duplicate of 376931		463	0.39	3000	13.0	31	150	21	671	435	0.74
377081	WSP313	Duplicate of 376955		804	0.44	1740	7.5	42	181	23	783	281	0.89