

## **APPENDIX 16b**

WELL DATA FOR GEOSTATISTICAL ANALYSIS

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# 1. INTRODUCTION

The data presented has been organized for the geostatistical analysis (Section 3) and used to directly compare measured data from wells with inferred/modeled data in the well vicinity. This includes all the available well data which is measured (hard data from well logs), modeled, and inferred along with trust values identified by the individual subject matter experts (see Section 1.4 of the main body of the report). The data set is organized in the following fashion by well name and data is shown that corresponds to differing depth intervals from the surface (1km above sea level) to a depth of -3km above sea level, in 0.5km increments. A description of the individual parameters included in the data set is given in Table 16b-1. The trust value legend is presented in Table 16b-2 and is identified as “TV” in Section 3. In addition to the geostatistical analyses, the Trust data is also used in paired EGS Favorability-Trust Maps (Section 8 of the report). Table 16b-3 presents the stratigraphy used in this analysis. Table 16b-4 presents a description of the five lithologic units identified by the combined gravity and magnetics parameters.

**Table 16b-1.** Parameters included in the well data set. Column Number and Column Identifier correspond to the number and column heading for the data presented.

Column Number	Column Identifier	Description of the Data
1	Well	Well ID Number and corresponding section.
2	Type	Current use/type of the well: producer, injector, sub-commercial, other (when the well type was not available to this study). Well Type was identified from the public domain characterization, limited private sector data provided by Terra-Gen Corp, and personal communication from Dr. David Blackwell, 2011.
3	Location	X, Y coordinates in latitude and longitude, respectively; Z coordinate is the elevation of the well pad in meters above sea level.
4	Depth	Well data has been subdivided into 500m horizontal intervals from 1km above sea level (asl) to -3km asl. The data corresponds to the average value at the indicated depth.
5	Lithology	Subsurface formations identified in the well (well logs, Nevada Bureau of Mines and Geology (NBMG) online geothermal database, Blackwell et al. 2005, published literature) and associated trust value as identified by the Geology Task Leader. Table 16b-2 provides a summary description of each of the formations encountered.
6	Measured Temperature	Measured temperature (°C) in well (online geothermal databases including Southern Methodist University and NBMG, Blackwell et al. (2005) and proprietary data provided by Terra-Gen Corp.) and trust value as identified by the Thermal Task Leader.
7	Modeled Temperature	Modeled temperature (°C) in a well as extracted from the wellfield cross-sections (Plates 1 and 2) and trust value (Table 16b-2) as identified by the Blackwell et al. (2005) and AltaRock-generated thermal model.
8	Vp (P-wave velocity)	Modeled primary-velocity value (km/sec) and P-wave velocity (Vp) trust value (Table 16b-2) as identified by the Seismic Task Leader.
9	Resistivity (MT)	Modeled Magneto-tellurics (MT) as resistivity (ohm-m) and trust value as identified by the MT Task Leader.

**Table 16b-1.** Parameters included in the well data set. Column Number and Column Identifier correspond to the number and column heading for the data presented.

Column Number	Column Identifier	Description of the Data
10	Lithology (Grav-Mag)	Subsurface formations as determined by the joint gravity and magnetic modeling and their associated trust values as determined by the Gravity and Magnetism Task Leader. Table 3 provides a summary of the lithology units identified by the joint gravity and magnetism modeling.
11	Stress Parameters	Modeled coulomb stress change (CSC), dilatation and the associated trust value for the stress parameters as determined by the Geology Task Leader. The data was given a neutral trust value of 2.5.
12	Vertical Stress	Modeled data and trust value as determined by the Geology Task Leader. This value was calculated based on the depth and density of overlying rocks. The data was given a neutral trust value of 2.5.
13	Productive (Hydrothermal)	Measured data presented as a 0 or a 1 for non-hydrothermally productive or productive, respectively (D. Blackwell, pers. comm., 2010; Reed, 2009; Blackwell et al. 2005). A "1" infers that the indicated depth is capable of geothermal injection, production (permeable), or is sub-commercial. A "0" indicates no hydrothermal component.
14	Fault Present	Fault Zones identified in the well logs and occurring as measured data, as determined by AltaRock Energy Inc. project geologists.
15	EGS	Cells (depths) that would be expected to potentially favorable for an Engineered Geothermal System, including selected depths from low permeability hot wells, and wells that are not part of the producing system.

2. Well Data Summary and Legend

The data shown in Section 3 was created to analyze the statistics of all the available well data including hard data (well logs) directly measured from wells, as well as inferred and modeled data with respect to well location. The trust (confidence) of the data is included where applicable, and used for the geostatistical analysis and EGS Favorability Mapping. Provided below is a description of the various geoscience parameters in Section 3.

**Trust Value (TV):** Conveys the confidence and/or reliability of derived data within a specific cell on a scale of 1-5, based on the proximity to a hard data point and/or limits of the geophysical modeling. Some data sets are labeled with a neutral value (2.5) if no trust values can be assigned to the model.

Table 16b-2. Description of Trust Value (TV) assigned to the various data

Trust Value	Description
5	Hard Data (measured in wells)
4	Strongly Inferred Data, within 0.5km of hard data
3	Weakly Inferred Data, within 1km of hard data
2	Interpolated/Extrapolated Data, more than 1km from hard data point
1	No Data available

1. **Well:** The well name is as indicated and in reference to section number.
2. **Type:** Wells were divided into the following classes; Injector, Producer, Sub-Commercial, and Other. Other was used if the well type was unknown.
3. **Location:** X and Y are the coordinates of the well at the surface in latitude and longitude. Z is the elevation in meters at the surface (KB).
4. **Depth:** Well were divided into depth intervals from 1km asl (surface of Dixie Valley) to -3km asl in 0.5km increments.
5. **Lithology:** Well Lithology as reported in the literature, well logs, etc. that occurs at the identified horizontal slice (km above sea level).  
The following table divides the lithology into seven stratigraphic units.

Table 16b-3. Summary Description of the seven major lithologic formations

Unit	Description
Tbf	Basin-filling sediments including lowermost tuffaceous sediments.
Tmb	Miocene basalt, aka Table Mountain Basalt.
Tv	Oligocene silicic volcanics, overlying lacustrine sediments, and underlying
Jbr	Jurassic Boyer Ranch quartzite
Jz	Jurassic Humboldt Igneous group
Tr	Triassic metasediments
Kgr	Cretaceous granodiorite

6. **Temp.:** Measured temperature in degrees Celsius extracted from the literature and Temp-Depth profiles (Blackwell et al., 2005).
7. **Modeled Temp:** Temperature in degree Celsius derived from the modeled temperature along the cross-sections.
8. **Vp-seismic:** P-wave velocity (km/sec) modeled at the University of Nevada Reno and derived from previous velocity modeling.
9. **MT:** Resistivity in ohm-m derived from Magneto-telluric data along three wellfield arrays (N,C,S).  
\*note. The MT data along Array C in the location of the Section 7 producing wells was applied to all the wells in this section.
10. **Grav\_Mag:** Modeled Combined Gravity-Magnetic inferred lithology units

Table 16b-4. Summary of Lithologic Units identified by the combined Gravity and Magnetics Modeling

Unit	Description	Density (g/cm <sup>3</sup> )	Magnetics (emu/cm <sup>3</sup> )
Tbf	Basin-fill	2.445	-
Ja	Jurassic arenite	2.56	-
Jv	Jurassic volcanics (rhyolite)	2.47	-
Jg	Magnetized Jurassic mafic rocks	2.876	0.004
Tr/Kgr	Tr meta-seds and basement	2.88	-

11. **Stress Parameters:** stress parameters derived from a ARE generated Stress Model of Dixie Valley (2010) using Coulomb 3.1.  
CSC: Coulomb Stress Change on a given fault/fracture due to slip constraints on a number of source faults.  
Positive CSC infers failure is promoted, while negative CSC values infers failure is inhibited.  
Dilation: expected dilatation on fault/fracture due to CSC and model constraints.  
Positive values infer fault is open (unclamped), while negative values (compression) infer fault is closed (clamped).
12. **VertStress:** Vertical Stress (bars) calculated based on the depth and density of overlying rocks.
13. **Productive (Hydrothermal):** 1 infers the referenced cell (depth) is capable of geothermal injection, production (permeable), or sub-commercial. 0
14. **Faults Present:** Fault zones identified in the well logs (1 = fault present at the corresponding depth interval).
15. **EGS:** Cells identified with a 1 indicate conditions that are expected to be potentially favorable for an Engineered Geothermal System. This includes selected depth intervals of low permeability wells and wells that are not part of the producing hydrothermal system. The EGS determination was not limited to a favorable rock type and temperature exclusively, but more an overall SME evaluation.

3. Dixie Valley Well Data Sheet

1	2	3			4	5		6		7		8		9		10		11			12		13	14	15
Well	Type	Location			Depth km	Lithology		Temp.		ModeledTemp		Vp-seismic		MT-Resistivity		Grav_Mag		Stress Parameters			Vertical Stress		Productive (Hydrothermal)	Fault Present	EGS
		X	Y	Z (m)		Fm.	TV	° C	TV	° C	TV	km/s	TV	ohm-m	TV	Unit	TV	CSC	Dilatation	TV	Bars	TV			
65-18	Injector	39.947	117.861	1048	1	Tbf	5					2.01	4.01	15	2	Tbf	5	21.01	1.317E-05	2.5	6.37	2.5	0		
					0.5	Tbf	5	35	5	35	5	3.24	3.775	60	2	Tbf	5	17.71	1.092E-05	2.5	12.74	2.5	0		
					0	Tbf	5			100	4	4.19	2.965	1	2	Tbf	5	15.05	8.779E-06	2.5	19.11	2.5	0		
					-0.5	Tbf	5			150	4	4.51	2.755	2	2	Tbf	5	12.84	6.815E-06	2.5	25.48	2.5	0		
					-1	Tmb	5			175	4	4.57	2.435	8	2	Tr/Kgr	5	10.94	5.055E-06	2.5	37.73	2.5	1		
					-1.5	Jz	5	218.3	5	200	5	4.52	2.12	20	2	Jg	4	9.27	3.498E-06	2.5	50.47	2.5	1	1	
					-2					225	4	4.88	1.145	60	2	Tr/Kgr	4				62.23	2.5	0	1	
					-2.5					225	4					Tr/Kgr	4				73.99	2.5	0		
					-3					250	3					Tr/Kgr	4				85.75	2.5	0		
32-18	Injector	39.953	117.862	1057	1	Tbf	5					2.03	3.965	20	2	Tbf	3	24.82	6.206E-06	2.5	6.37	2.5	0		
					0.5	Tbf	5			60	4	3.31	3.865	3	2	Tbf	3	19.14	4.754E-06	2.5	12.74	2.5	0		
					0	Tbf	5			110	4	4.25	3.065	2	2	Tbf	3	14.72	3.334E-06	2.5	19.11	2.5	0		
					-0.5	Tbf	5			160	4	4.52	2.855	8	2	Tbf	3	11.24	2.051E-06	2.5	25.48	2.5	0		
					-1	Tmb	5			200	4	4.58	2.545	20	2	Jg	3	8.41	9.551E-07	2.5	37.24	2.5	1		
					-1.5					218	4	4.53	2.235	50	2	Tr/Kgr	3	6.04	4.799E-08	2.5	49.49	2.5	0		
					-2					225	4	4.91	1.21	100	2	Tr/Kgr	3				61.74	2.5	0		
					-2.5					225	4	5	1.135			Tr/Kgr	3				73.99	2.5	0		
					-3					250	4					Tr/Kgr	3				86.24	2.5	0		
52-18	Injector	39.953	117.861	1054	1	Tbf	5					2.02	3.965	20	3	Tbf	5	24.82	6.206E-06	2.5	6.37	2.5	0		
					0.5	Tbf	5	60	5	60	5	3.3	3.865	3	3	Tbf	5	19.14	4.754E-06	2.5	12.74	2.5	0		
					0	Tbf	5	110	5	110	5	4.25	3.065	2	3	Tbf	5	14.72	3.334E-06	2.5	19.11	2.5	0		
					-0.5	Tbf	5	160	5	160	5	4.51	2.855	8	3	Tbf	5	11.24	2.051E-06	2.5	25.48	2.5	0		
					-1	Tv	5	200	5	200	5	4.57	2.545	20	3	Jg	5	8.41	9.551E-07	2.5	37.24	2.5	1		
					-1.5	Jz	5	230	5	218	5	4.52	2.235	50	3	Tr/Kgr	4	6.04	4.799E-08	2.5	49.49	2.5	1		
					-2	Jz	5	233	5	225	5	4.9	1.21	100	3	Tr/Kgr	4				61.74	2.5	0		
					-2.5					225	4	5	1.14			Tr/Kgr	4				73.99	2.5	0		
					-3					250	4					Tr/Kgr	4				86.24	2.5	0		
SWL-3	Injector	39.953	117.864	1057	1	Tbf	5					2.03	3.965	20	3	Tbf	3	24.82	6.206E-06	2.5	6.37	2.5	0		
					0.5	Tbf	5			60	4	3.31	3.865	10	3	Tbf	3	19.14	4.754E-06	2.5	12.74	2.5	0		
					0	Tbf	5			110	4	4.25	3.065	7	3	Jg	3	14.72	3.334E-06	2.5	19.11	2.5	0		
					-0.5	Tbf	5			160	4	4.52	2.855	8	3	Jg	3	11.24	2.051E-06	2.5	25.48	2.5	0		
					-1	Tmb	5			200	4	4.58	2.545	30	3	Tr/Kgr	3	8.41	9.551E-07	2.5	37.73	2.5	1		
					-1.5	Tv	5	215	5	218	4	4.53	2.235	200	3	Tr/Kgr	3	6.04	4.799E-08	2.5	50.47	2.5	0	1	
					-2	Kgr	5			225	4	4.91	1.21	250	3	Tr/Kgr	3				62.72	2.5	0		
					-2.5					225	4	5	1.135			Tr/Kgr	3				74.97	2.5	0		
					-3					250	4					Tr/Kgr	3				87.22	2.5	0		
SWL-2	Injector	39.952	117.871	1058	1	Tbf	5			99	3	2.04	3.845	20	2	Tbf	5	24.82	6.206E-06	2.5	6.37	2.5	0		
					0.5	Tbf	5			100	3	3.33	3.72	10	2	Tbf	5	19.14	4.754E-06	2.5	12.74	2.5	0		
					0	Tbf	5			110	3	4.31	2.8	7	2	Jg	5	14.72	3.334E-06	2.5	19.11	2.5	0		
					-0.5	Tbf	5			150	3	4.51	2.56	8	2	Jg	5	11.24	2.051E-06	2.5	25.48	2.5	0		
					-1	Tmb	5			175	3	4.55	2.2	30	2	Tr/Kgr	5	8.41	9.551E-07	2.5	37.24	2.5	1		1
					-1.5	Kgr	5	210	5	200	3	4.48	1.915	200	2	Tr/Kgr	4	6.04	4.799E-08	2.5	49.49	2.5	0	1	1
					-2					225	3	4.87	0.92	250	2	Tr/Kgr	4				61.74	2.5	0		
					-2.5					250	3					Tr/Kgr	4				73.99	2.5	0		
					-3					250	3					Tr/Kgr	4				86.24	2.5	0		

Dixie Valley Well Data (continued)

1	2	3			4	5		6		7		8		9		10		11			12		13	14	15
Well	Type	Location			Depth	Lithology		Temp.		ModeledTemp		Vp-seismic		MT-Resistivity		Grav_Mag		Stress Parameters			Vertical Stress		Productive (Hydrothermal)	Fault Present	EGS
		X	Y	Z (m)		Fm.	TV	°C	TV	°C	TV	km/s	TV	ohm-m	TV	Unit	TV	CSC	Dilatation	TV	Bars	TV			
SWL-2B	Injector	39.952	117.871	1058	1	Tbf	5			99	1	2.04	3.845	20	2	Tbf	5	24.82	6.206E-06	2.5	6.37	2.5	0		
					0.5	Tbf	5			100	3	3.33	3.72	10	2	Tbf	5	19.14	4.754E-06	2.5	12.74	2.5	0		
					0	Tbf	5			110	3	4.31	2.8	7	2	Jg	5	14.72	3.334E-06	2.5	19.11	2.5	0		
					-0.5	Tbf	5			150	3	4.51	2.56	8	2	Jg	5	11.24	2.051E-06	2.5	25.48	2.5	0		
					-1	Tmb	5			175	3	4.55	2.2	30	2	Tr/Kgr	5	8.41	9.551E-07	2.5	37.24	2.5	1		1
					-1.5	Tv	5			200	3	4.48	1.915	200	2	Tr/Kgr	4	6.04	4.799E-08	2.5	49.49	2.5	0		
					-2					225	3	4.87	0.92	250	2	Tr/Kgr	4				61.74	2.5	0		
					-2.5					250	3					Tr/Kgr	4				73.99	2.5	0		
					-3					250	3					Tr/Kgr	4				86.24	2.5	0		
41-18	Injector	39.954	117.863	1055	1	Tbf	5					2.03	3.965	20	2	Tbf	5	24.82	6.206E-06	2.5	6.37	2.5	0		
					0.5					60	4	3.31	3.865	10	2	Tbf	5	19.14	4.754E-06	2.5	12.74	2.5	0		
					0					110	4	4.25	3.065	7	2	Jg	5	14.72	3.334E-06	2.5	19.11	2.5	0		
					-0.5					160	4	4.52	2.855	8	2	Jg	5	11.24	2.051E-06	2.5	25.48	2.5	0		
					-1					200	4	4.58	2.545	30	2	Tr/Kgr	5	8.41	9.551E-07	2.5	37.24	2.5	0		
					-1.5					218	4	4.53	2.235	200	2	Tr/Kgr	4	6.04	4.799E-08	2.5	49.49	2.5	0		
					-2					225	4	4.91	1.21	250	2	Tr/Kgr	4				61.74	2.5	0		
					-2.5					225	4	5	1.135			Tr/Kgr	4				73.99	2.5	0		
					-3					250	4					Tr/Kgr	4				86.24	2.5	0		
SWL-1	Injector	39.954	117.869	1061	1	Tbf	5			99	1	2.04	3.845	20	2	Tbf	5	26.44	7.105E-06	2.5	6.37	2.5	0		
					0.5	Tbf	5			125	4	3.33	3.72	10	2	Tbf	5	20.35	5.403E-06	2.5	12.74	2.5	0		
					0	Tbf	5			150	4	4.31	2.8	7	2	Jg	5	15.71	3.753E-06	2.5	19.11	2.5	0		
					-0.5	Tbf	5			200	4	4.51	2.56	8	2	Jg	5	12.10	2.294E-06	2.5	25.48	2.5	0		
					-1	Tmb	5	222	5	222	5	4.55	2.2	30	2	Tr/Kgr	5	9.20	1.083E-06	2.5	37.24	2.5	1		
					-1.5					225	4	4.48	1.915	200	2	Tr/Kgr	4	6.75	1.127E-07	2.5	49.49	2.5	0		
					-2					250	4	4.87	0.92	250	2	Tr/Kgr	4				61.74	2.5	0		
					-2.5					250	4					Tr/Kgr	4				73.99	2.5	0		
					-3					275	4					Tr/Kgr	4				86.24	2.5	0		
62-21	Other	39.939	117.823	1050	1	Tbf	5	16	5	16	5	1.93	3.76	10	5	Tbf	5	27.36	2.433E-05	2.5	6.37	2.5	0		
					0.5	Tbf	5	50	5	50	5	2.92	3.55	6	5	Tbf	5	25.02	2.123E-05	2.5	12.74	2.5	0		
					0	Tbf	5	85	5	85	5	3.76	2.77	2	5	Tbf	5	22.79	1.831E-05	2.5	19.11	2.5	0		
					-0.5	Tbf	5	115	5	115	5	4.35	2.6	3	5	Tbf	5	20.68	1.557E-05	2.5	25.48	2.5	0		
					-1	Tbf	5	140	5	140	5	4.42	2.275	6	5	Tbf	5	18.75	1.301E-05	2.5	38.22	2.5	0		
					-1.5	Jz	5	155	5	155	5	4.47	1.805	7	4	Tr/Kgr	4	17.02	1.06E-05	2.5	50.96	2.5	0	1	
					-2	Tr	5	175	5	175	5	4.71	0.785	8	4	Tr/Kgr	4	15.50	8.332E-06	2.5	62.72	2.5	0		
					-2.5	Tr	5	184	5	184	5	4.82	0.73	9	4	Tr/Kgr	4	14.19	6.184E-06	2.5	74.48	2.5	0		
					-3					225	4	4.93	0.675	10	4	Tr/Kgr	4				86.73	2.5	0		
45-14	Sub-Comm.	39.862	118.011	1039	1	Tbf	5	100	5	100	5	3.06	0.075			Tbf	5	-17.61	-5.76E-06	2.5	6.37	2.5	0		
					0.5	Tv	5	145	5	145	5	4.11	0.075			Tr/Kgr	5	-16.52	-5.3E-06	2.5	18.13	2.5	0		
					0	Tr	5	170	5	170	5	4.9	0.065			Tr/Kgr	5	-15.74	-4.89E-06	2.5	29.89	2.5	0		
					-0.5	Tr	5	180	5	180	5	5.23	0.065			Tr/Kgr	5	-15.22	-4.53E-06	2.5	41.65	2.5	0		
					-1	Tr	5	190	5	190	5	5.56	0.065			Tr/Kgr	5	-14.92	-4.21E-06	2.5	53.41	2.5	0		
					-1.5	Tr	5	196	5	196	5	5.85	0.065			Tr/Kgr	4	-14.83	-3.91E-06	2.5	65.17	2.5	0		1
					-2					225	4	5.93	0.065			Tr/Kgr	4				77	2.5	0		
					-2.5					225	4					Tr/Kgr	4				90	2.5	0		
					-3					250	3					Tr/Kgr	4				102	2.5	0		



Dixie Valley Well Data (continued)

1	2	3			4	5		6		7		8		9		10		11			12		13	14	15
Well	Type	Location			Depth	Lithology		Temp.		ModeledTemp		Vp-seismic		MT-Resistivity		Grav_Mag		Stress Parameters			Vertical Stress		Productive (Hydrothermal)	Fault Present	EGS
		X	Y	Z (m)		Fm.	TV	° C	TV	° C	TV	km/s	TV	ohm-m	TV	Unit	TV	CSC	Dilatation	TV	Bars	TV			
66-21	Other	39.931	117.932	1052	1	Tbf	5					1.95	0.05			Tbf	5	-9.94	-1.68E-05	2.5	6.37	2.5	0		
					0.5	Tbf	5	90	5	90	5	3.07	0.05			Tr/Kgr	5	-11.03	-1.41E-05	2.5	12.74	2.5	0		
					0	Tbf	5	130	5	130	5	4.72	0.05			Tr/Kgr	5	-11.09	-1.18E-05	2.5	24.5	2.5	0		
					-0.5	Tv	5	160	5	160	5	4.92	0.05			Tr/Kgr	5	-11.00	-9.9E-06	2.5	36.75	2.5	0		1
					-1	Jz	5	185	5	185	5	4.99	0.05			Tr/Kgr	5	-11.17	-8.46E-06	2.5	49	2.5	0		1
					-1.5	Tr	5	210	5	210	5	4.48	0.05			Tr/Kgr	4	-11.67	-7.4E-06	2.5	60.76	2.5	0		1
					-2	Tr	5	218	5	218	5	5.14	0.05			Tr/Kgr	4				73.01	2.5	0		
					-2.5	Tr	5			250	4					Tr/Kgr	4				85.26	2.5	0		
					-3					250	4					Tr/Kgr	4				97.51	2.5	0		
62-23A	Other	39.937	117.894	1036	1	Tbf	5					2.08	3.46	6	5	Tbf	5	13.24	3.36E-07	2.5	6.37	2.5	0		
					0.5	Tbf	5	80	5	80	5	3.35	3.27	1	5	Tbf	5	9.99	-1.75E-07	2.5	12.74	2.5	0		
					0	Tbf	5	125	5	125	5	4.53	2.155	6	5	Tbf	5	7.23	-6.49E-07	2.5	19.11	2.5	0		
					-0.5	Tbf	5	175	5	175	5	4.59	1.975	15	5	Tbf	5	4.87	-1.1E-06	2.5	30.87	2.5	0		
					-1	Tv	4	215	5	215	5	4.6	1.73	25	5	Tbf	5	2.86	-1.53E-06	2.5	43.61	2.5	0		1
					-1.5	Jz	4	240	5	240	5	4.43	1.625	60	4	Jg	4	-0.98	-3.54E-06	2.5	55.37	2.5	0		1
					-2	Tr	3	255	5	255	5	4.88	1.145	100	4	Tr/Kgr	4	-2.46	-3.64E-06	2.5	67.13	2.5	0		1
					-2.5	Tr	3	267	5	267	5	4.97	1.08			Tr/Kgr	4	-3.78	-3.76E-06	2.5	78.89	2.5	0		
					-3					275	4	5.05	1.015			Tr/Kgr	4				91.14	2.5	0		
36-14	Sub-Comm.	39.946	117.901	1043	1	Tbf	5					2.16	3.14	6	5	Tbf	5	6.82	-6.78E-06	2.5	6.37	2.5	0		
					0.5	Tbf	5	150	5	150	5	3.3	3.14	6	5	Tr/Kgr	5	4.33	-6.39E-06	2.5	12.74	2.5	0		
					0	Tbf	4	190	5	190	5	4.69	2.615	20	5	Tr/Kgr	5	2.09	-6.02E-06	2.5	24.5	2.5	0		
					-0.5	Tr	4	215	5	215	5	4.74	2.365	60	5	Tr/Kgr	5	0.10	-5.68E-06	2.5	36.26	2.5	0		
					-1	Tr	3	235	5	235	5	4.74	2.03	150	5	Tr/Kgr	5	-4.24	-7.25E-06	2.5	48.02	2.5	0		
					-1.5	Tr	3	250	5	250	5	4.56	1.725	250	4	Tr/Kgr	4	-5.63	-6.64E-06	2.5	60.27	2.5	0		1
					-2	Kgr	2	270	5	270	5	4.92	1.45	600	4	Tr/Kgr	4	-8.07	-6.67E-06	2.5	72.52	2.5	0		1
					-2.5	Kgr	2	285	5	285	5	4.99	1.44			Tr/Kgr	4				84.77	2.5	0	1	1
					-3					285	4	5.07	1.355			Tr/Kgr	4				97.02	2.5	0		
53-15	Other	-	-	-	1	Tbf	5					2.27	2.535	3	3			4.33	-1.65E-05	2.5	12.74	2.5	0		
					0.5	Jz	5	130	5	130	5	3.29	2.535	60	3			2.09	-1.49E-05	2.5	25.48	2.5	0		
					0	Jz	4	150	5	150	5	4.79	2.07	350	3			0.10	-1.34E-05	2.5	37.24	2.5	0		
					-0.5	Tr	4			180	4	4.85	1.97								49	2.5	0		
					-1					203	4										61.25	2.5	0		
					-1.5					225	3										73.5	2.5	0		
					-2					225	3										85.75	2.5	0		
					-2.5					280	3										98	2.5	0		
					-3					280	3										110.25	2.5	0		
76-28	Other	40.002	117.814	1051	1	Tbf	5					1.98	0.05					-17.28	1.597E-06	2.5	6.37	2.5	0		
					0.5	Tbf	5	30	5	30	5	3.42	0.05					-11.96	1.135E-06	2.5	12.74	2.5	0		
					0	Tbf	5	50	5	50	5	4.22	0.05					-9.20	6.717E-07	2.5	19.11	2.5	0		
					-0.5	Tbf	5	65	5	65	5	4.79	0.05					-8.02	2.648E-07	2.5	30.87	2.5	0		
					-1	Jz	5	80	5	80	5	4.86	0.05					-7.72	-6.69E-08	2.5	42.63	2.5	0	1	
					-1.5	Tr	5			150	4	4.89	0.05					-7.88	-3.29E-07	2.5	54.39	2.5	0		
					-2	Kgr	5	175	5	175	5	4.9	0.05					-8.28	-5.37E-07	2.5	66.64	2.5	0		1
					-2.5					175	4	5	0.05								78.89	2.5	0		
					-3					200	4										91.14	2.5	0		



Dixie Valley Well Data (continued)

1	2	3			4	5		6		7		8		9		10		11			12		13	14	15
Well	Type	Location			Depth	Lithology		Temp.		ModeledTemp		Vp-seismic		MT-Resistivity		Grav_Mag		Stress Parameters			Vertical Stress		Productive (Hydrothermal)	Fault Present	EGS
		X	Y	Z (m)		Fm.	TV	°C	TV	°C	TV	km/s	TV	ohm-m	TV	Unit	TV	CSC	Dilatation	TV	Bars	TV			
38-32	Injector	39.984	117.847	1055	1	Tbf	5					2.04	3.515	2	5	Tbf	5	-123.01	-0.000116	2.5	6.37	2.5	0		
					0.5	Jbr	5	145	5	145	5	3.49	3.505	60	5	Tr/Kgr	5	-127.42	-4.49E-05	2.5	18.62	2.5	1	1	
					0	Tr	5	170	5	170	5	4.23	3.025	200	5	Tr/Kgr	5	-146.62	-1.97E-05	2.5	30.38	2.5	0		
					-0.5			201	5	201	5	4.65	2.86	400	5	Tr/Kgr	5				42.63	2.5	0		
					-1					200	4										54.88	2.5	0		
					-1.5					225	4										67.13	2.5	0		
					-2					250	3										79.38	2.5	0		
					-2.5					250	3										91.63	2.5	0		
					-3					250	3										103.88	2.5	0		
27-32	Injector	39.986	117.849	1062	1	Tbf	5					2.04	3.515	2	5	Tbf	5	-123.01	-0.000116	2.5	6.37	2.5	0		
					0.5	Jbr	5			145	4	3.49	3.505	60	5	Tr/Kgr	5	-127.42	-4.49E-05	2.5	18.62	2.5	1		
					0	Tr	5			170	4	4.23	3.025	200	5	Tr/Kgr	5	-146.62	-1.97E-05	2.5	30.38	2.5	0		
					-0.5					201	3	4.65	2.86	400	5	Tr/Kgr	5				42.63	2.5	0		
					-1					200	3										54.88	2.5	0		
					-1.5																	2.5	0		
					-2																	2.5	0		
					-2.5																	2.5	0		
					-3																	2.5	0		
82-5	Injector	39.981	117.832	1050	1	Tbf	5					2.03	3.73	20	5	Tbf	5	124.13	-1.14E-05	2.5	6.37	2.5	0		
					0.5	Tbf	5	65	5	65	5	3.31	3.72	6	5	Tbf	5	11.93	-4.69E-06	2.5	12.74	2.5	0		
					0	Tbf	5	115	5	115	5	4.12	3.47	20	5	Tbf	5	-33.58	-1.7E-06	2.5	19.11	2.5	0		
					-0.5	Tbf	5	155	5	155	5	4.64	3.21	50	5	Jg	5	-58.26	-7.88E-07	2.5	25.48	2.5	0		
					-1	Tmb	5	195	5	195	5	4.71	2.825	100	5	Jg	5	-77.76	-6.25E-07	2.5	37.73	2.5	0		1
					-1.5	Tv	5	226	5	226	5	4.76	2.27	200	4	Jg	4	-98.29	-6.97E-07	2.5	49.49	2.5	0		1
					-2	Kgr	5			225	4	4.89	1.565	200	4	Jg	4	-124.01	-8.33E-07	2.5	61.74	2.5	0	1	1
					-2.5	Kgr	4			250	4	4.98	1.455			Tr/Kgr	4				73.99	2.5	0		1
					-3					250	4					Tr/Kgr	4				86.24	2.5	0		
45-5	Injector	39.977	117.849	1052	1	Tbf	5	60	5	60	5	2.06	3.89					204.00	3.916E-05	2.5	6.37	2.5	0		
					0.5	Tbf	5			108	4	3.36	3.8					100.25	1.088E-05	2.5	19.11	2.5	0		
					0	Tbf	5			150	4	4.22	3.53					63.29	-1.63E-06	2.5	30.87	2.5	0		
					-0.5	Tbf	5			183	4	4.61	3.285					42.50	-4.92E-06	2.5	42.63	2.5	0		
					-1	Tv	5			217	4	4.68	2.945					26.56	-5.31E-06	2.5	54.88	2.5	1	1	
					-1.5	Kgr	5	212	5	225	5	4.71	2.47					13.03	-4.92E-06	2.5	67.13	2.5	0		
					-2	Kgr	5			250	4	4.88	1.35								79.38	2.5	0		
					-2.5					250	4										91.63	2.5	0		
					-3					250	4										103.88	2.5	0		
27-33	Producer	39.987	117.831	1050	1	Tbf	5			0	1	1.97	3.695	20	3	Tbf	3	42.13	1.395E-06	2.5	6.37	2.5	0		
					0.5	Tbf	4			85	4	3.33	3.685	6	3	Tbf	3	18.72	2.09E-06	2.5	12.74	2.5	0		
					0	Tbf	4			103	4	4.03	3.04	20	3	Tbf	3	3.13	2.403E-06	2.5	19.11	2.5	0		
					-0.5	Tbf	4			138	4	4.61	2.84	50	3	Tbf	3	-7.20	2.342E-06	2.5	25.48	2.5	0		
					-1	Tmb	4			168	4	4.71	2.52	100	3	Tbf	3	-14.27	2.023E-06	2.5	37.73	2.5	0		
					-1.5	Tv	4	245	5	225	4	4.78	2.045	200	3	Jg	3	-19.43	1.57E-06	2.5	49.49	2.5	1		
					-2	Jbr	4			235	4	4.9	1.43	200	3	Tr/Kgr	3	-23.50	1.065E-06	2.5	61.74	2.5	0		
					-2.5					250	3	4.99	1.33			Tr/Kgr	3				73.99	2.5	0		
					-3					256	3										86.24	2.5	0		

Dixie Valley Well Data (continued)

1	2	3			4	5		6		7		8		9		10		11			12		13	14	15
Well	Type	Location			Depth	Lithology		Temp.		ModeledTemp		Vp-seismic		MT-Resistivity		Grav_Mag		Stress Parameters			Vertical Stress		Productive (Hydrothermal)	Fault Present	EGS
		X	Y	Z (m)		Fm.	TV	° C	TV	° C	TV	km/s	TV	ohm-m	TV	Unit	TV	CSC	Dilatation	TV	Bars	TV			
28-33	Producer	39.985	117.832	1057	1	Tbf	5			0	1	1.97	3.695	20	3	Tbf	3	42.13	1.395E-06	2.5	6.37	2.5	0		
					0.5	Tbf	5			85	4	3.33	3.685	6	3	Tbf	3	18.72	2.09E-06	2.5	12.74	2.5	0		
					0	Tbf	5			103	4	4.03	3.04	20	3	Tbf	3	3.13	2.403E-06	2.5	19.11	2.5	0		
					-0.5	Tbf	5			138	4	4.61	2.84	50	3	Tbf	3	-7.20	2.342E-06	2.5	25.48	2.5	0		
					-1	Tmb	5			168	4	4.71	2.52	100	3	Tbf	3	-14.27	2.023E-06	2.5	37.73	2.5	0		
					-1.5	Tv	5			225	4	4.78	2.045	200	3	Jg	3	-19.43	1.57E-06	2.5	49.49	2.5	0		
					-2	Jbr	4			235	4	4.9	1.43	200	3	Tr/Kgr	3	-23.50	1.065E-06	2.5	61.74	2.5	1		
					-2.5					250	3	4.99	1.33			Tr/Kgr	3				73.99	2.5	0		
					-3					256	3										86.24	2.5	0		
37-33	Producer	39.986	117.831	1055	1	Tbf	5			0	1	1.97	3.695			Tbf	3	42.13	1.395E-06	2.5	6.37	2.5	0		
					0.5	Tbf	5			92	4	3.33	3.685			Tbf	3	18.72	2.09E-06	2.5	12.74	2.5	0		
					0	Tbf	5			100	4	4.03	3.04			Tbf	3	3.13	2.403E-06	2.5	19.11	2.5	0		
					-0.5	Tbf	5			137	4	4.61	2.84			Tbf	3	-7.20	2.342E-06	2.5	25.48	2.5	0		
					-1	Tmb	5			159	4	4.71	2.52			Tbf	3	-14.27	2.023E-06	2.5	37.73	2.5	0		
					-1.5	Jz	5			206	4	4.78	2.045			Jg	3	-19.43	1.57E-06	2.5	49.49	2.5	1	1	
					-2	Kgr	5	246	5	225	4	4.9	1.43			Tr/Kgr	3	-23.50	1.065E-06	2.5	61.74	2.5	0		
					-2.5	Kgr	4			231	3	4.99	1.33			Tr/Kgr	3				73.99	2.5	0		
					-3					256	3										86.24	2.5	0		
45-33	Producer	39.989	117.823	1050	1	Tbf	5			0	1	2	3.395			Tbf	3	26.92	3.522E-06	2.5	6.37	2.5	0		
					0.5	Tbf	5	65	5	65	5	3.43	3.38			Tbf	3	14.09	3.489E-06	2.5	12.74	2.5	0		
					0	Tbf	5	100	5	100	5	4.11	2.635			Tbf	3	4.52	3.292E-06	2.5	19.11	2.5	0		
					-0.5	Tbf	5	135	5	135	5	4.6	2.555			Tbf	3	-2.46	2.931E-06	2.5	25.48	2.5	0		
					-1	Tbf	5	170	5	170	5	4.72	2.41			Tbf	3	-7.57	2.45E-06	2.5	37.24	2.5	0		
					-1.5	Tbf	5	215	5	215	5	4.8	2.065			Jg	3	-11.42	1.904E-06	2.5	49.98	2.5	0		
					-2	Jbr	5	251	5	251	5	4.9	1.715			Tr/Kgr	3	-14.44	1.335E-06	2.5	62.23	2.5	1		1
					-2.5							4.99	1.59			Tr/Kgr	3				74.48	2.5	0		
					-3																86.73	2.5	0		
76A-7	Producer	39.959	117.857	1055	1	Tbf	5			99	3	2.02	3.945	4	5	Tbf	3	12.54	2.51E-05	2.5	6.37	2.5	0		
					0.5	Tbf	4			125	3	3.23	3.84	6	5	Tbf	3	17.93	1.873E-05	2.5	12.74	2.5	0		
					0	Tbf	4			150	3	4.05	3.24	7	5	Tbf	3	20.54	1.325E-05	2.5	19.11	2.5	0		
					-0.5	Tbf	4			175	3	4.39	2.985	10	5	Tbf	3	21.29	9.025E-06	2.5	25.48	2.5	0		
					-1	Tbf	4			204	3	4.45	2.605	75	5	Jg	3	21.02	5.952E-06	2.5	37.73	2.5	0		
					-1.5	Tmb	4			225	3	4.5	2.105	165	4	Tr/Kgr	3	20.22	3.752E-06	2.5	50.47	2.5	1		
					-2					250	3	4.79	0.9	175	4	Tr/Kgr	3				63.21	2.5	0		
					-2.5					250	3			165	4	Tr/Kgr	3				74.97	2.5	0		
					-3					250	3			110	4	Tr/Kgr	3				86.73	2.5	0		
76-7	Producer	39.959	117.857	1055	1	Tbf	5			99	3	2.02	3.945	4	5	Tbf	3				6.37	2.5	0		
					0.5	Tbf	5			125	3	3.23	3.84	6	5	Tbf	3				12.74	2.5	0		
					0	Tbf	5			150	4	4.05	3.24	7	5	Tbf	3				19.11	2.5	0		
					-0.5	Tbf	5			175	4	4.39	2.985	10	5	Tbf	3				25.48	2.5	0		
					-1	Tbf	5	204	5	204	5	4.45	2.605	75	5	Jg	3				37.73	2.5	0		
					-1.5	Tmb	5			225	4	4.5	2.105	165	4	Tr/Kgr	3				50.47	2.5	1		1
					-2					250	4	4.79	0.9	175	4	Tr/Kgr	3				63.21	2.5	0		
					-2.5					250	3			165	4	Tr/Kgr	3				74.97	2.5	0		
					-3					250	3			110	4	Tr/Kgr	3				86.73	2.5	0		

Dixie Valley Well Data (continued)

1	2	3			4	5		6		7		8		9		10		11			12		13	14	15
Well	Type	Location			Depth	Lithology		Temp.		ModeledTemp		Vp-seismic		MT-Resistivity		Grav_Mag		Stress Parameters			Vertical Stress		Productive (Hydrothermal)	Fault Present	EGS
		X	Y	Z (m)		Fm.	TV	° C	TV	° C	TV	km/s	TV	ohm-m	TV	Unit	TV	CSC	Dilatation	TV	Bars	TV			
82A-7	Producer	39.968	117.855	1056	1	Tbf	5			100	3	2.01	3.995	6	5	Tbf	5	22.63	2.533E-05	2.5	6.37	2.5	0		
					0.5	Tbf	4			125	3	3.22	3.895	6	5	Tbf	5	24.66	1.754E-05	2.5	12.74	2.5	0		
					0	Tbf	4			150	3	4.08	3.455	20	5	Tbf	5	25.44	1.111E-05	2.5	19.11	2.5	0		
					-0.5	Tbf	4			200	3	4.41	3.22	60	5	Tbf	5	24.92	6.576E-06	2.5	25.48	2.5	0		
					-1	Tmb	4			225	3	4.48	2.875	300	5	Jg	5	23.56	3.62E-06	2.5	37.73	2.5	0		
					-1.5	Jz	4			250	3	4.53	2.415	300	4	Tr/Kgr	4	21.68	1.73E-06	2.5	50.47	2.5	1		
					-2					250	3	4.79	1.31	300	4	Tr/Kgr	4				63.21	2.5	0		
					-2.5					275	3			200	4	Tr/Kgr	4				74.97	2.5	0		
					-3					275	3			200	4	Tr/Kgr	4				86.73	2.5	0		
82-7	Producer	39.968	117.855	1056	1	Tbf	5			100	3	2.01	3.995	6	5	Tbf	5	22.63	2.533E-05	2.5	6.37	2.5	0		
					0.5	Tbf	5			125	3	3.22	3.895	6	5	Tbf	5	24.66	1.754E-05	2.5	12.74	2.5	0		
					0	Tbf	5			150	3	4.08	3.455	20	5	Tbf	5	25.44	1.111E-05	2.5	19.11	2.5	0		
					-0.5	Tbf	5			200	3	4.41	3.22	60	5	Tbf	5	24.92	6.576E-06	2.5	25.48	2.5	0		
					-1	Tmb	5			225	4	4.48	2.875	300	5	Jg	5	23.56	3.62E-06	2.5	37.73	2.5	0		
					-1.5	Jz	5			250	4	4.53	2.415	300	4	Tr/Kgr	4	21.68	1.73E-06	2.5	50.47	2.5	1		1
					-2			212	5	250	5	4.79	1.31	300	4	Tr/Kgr	4				63.21	2.5	1		1
					-2.5					275	4			200	4	Tr/Kgr	4				74.97	2.5	0		
					-3					275	4			200	4	Tr/Kgr	4				86.73	2.5	0		
84-7	Producer	39.964	117.858	1059	1	Tbf	5			100	3	2.01	3.995	6	5	Tbf	5	22.63	2.533E-05	2.5	6.37	2.5	0		
					0.5	Tbf	5			125	3	3.22	3.895	6	5	Tbf	5	24.66	1.754E-05	2.5	12.74	2.5	0		
					0	Tbf	5			150	3	4.08	3.455	20	5	Tbf	5	25.44	1.111E-05	2.5	19.11	2.5	0		
					-0.5	Tbf	5			200	4	4.41	3.22	60	5	Tbf	5	24.92	6.576E-06	2.5	25.48	2.5	0		
					-1	Tmb	5			225	4	4.48	2.875	300	5	Jg	5	23.56	3.62E-06	2.5	37.73	2.5	1		1
					-1.5	Tv	5	247	5	250	5	4.53	2.415	300	4	Tr/Kgr	4	21.68	1.73E-06	2.5	50.47	2.5	0	1	1
					-2					250	4	4.79	1.31	300	4	Tr/Kgr	4				63.21	2.5	0		
					-2.5					275	4			200	4	Tr/Kgr	4				74.97	2.5	0		
					-3					275	3			200	4	Tr/Kgr	4				86.73	2.5	0		
73-7	Producer	39.966	117.858	1059	1	Tbf	5			100	3	2.01	3.995	6	5	Tbf	5	22.63	2.533E-05	2.5	6.37	2.5	0		
					0.5	Tbf	5			125	3	3.22	3.895	6	5	Tbf	5	24.66	1.754E-05	2.5	12.74	2.5	0		
					0	Tbf	5			150	3	4.08	3.455	20	5	Tbf	5	25.44	1.111E-05	2.5	19.11	2.5	0		
					-0.5	Tbf	5			200	3	4.41	3.22	60	5	Tbf	5	24.92	6.576E-06	2.5	25.48	2.5	0		
					-1	Tmb	5			225	3	4.48	2.875	300	5	Jg	5	23.56	3.62E-06	2.5	37.73	2.5	0		
					-1.5	Jz	5			250	3	4.53	2.415	300	4	Tr/Kgr	4	21.68	1.73E-06	2.5	50.47	2.5	1		
					-2					250	3	4.79	1.31	300	4	Tr/Kgr	4				63.21	2.5	0		
					-2.5					275	3			200	4	Tr/Kgr	4				74.97	2.5	0		
					-3					275	3			200	4	Tr/Kgr	4				86.73	2.5	0		
73B-7	Producer	39.965	117.853	1056	1	Tbf	5			100	3	2.01	3.995	6	5	Tbf	5	22.63	2.533E-05	2.5	6.37	2.5	0		
					0.5	Tbf	4			125	3	3.22	3.895	6	5	Tbf	5	24.66	1.754E-05	2.5	12.74	2.5	0		
					0	Tbf	4			150	3	4.08	3.455	20	5	Tbf	5	25.44	1.111E-05	2.5	19.11	2.5	0		
					-0.5	Tbf	4			200	3	4.41	3.22	60	5	Tbf	5	24.92	6.576E-06	2.5	25.48	2.5	0		
					-1	Tmb	4			225	3	4.48	2.875	300	5	Jg	5	23.56	3.62E-06	2.5	37.73	2.5	0		
					-1.5	Jz	4			250	3	4.53	2.415	300	4	Tr/Kgr	4	21.68	1.73E-06	2.5	50.47	2.5	1		
					-2					250	3	4.79	1.31	300	4	Tr/Kgr	4				63.21	2.5	0		
					-2.5					275	3			200	4	Tr/Kgr	4				74.97	2.5	0		
					-3					275	3			200	4	Tr/Kgr	4				86.73	2.5	0		

Dixie Valley Well Data (continued)

1	2	3			4	5		6		7		8		9		10		11			12		13	14	15
Well	Type	Location			Depth	Lithology		Temp.		ModeledTemp		Vp-seismic		MT-Resistivity		Grav_Mag		Stress Parameters			Vertical Stress		Productive (Hydrothermal)	Fault Present	EGS
		X	Y	Z (m)		Fm.	TV	° C	TV	° C	TV	km/s	TV	ohm-m	TV	Unit	TV	CSC	Dilatation	TV	Bars	TV			
63-7	Producer	39.965	117.855	1059	1	Tbf	5			100	3	2.01	3.995	6	5	Tbf	5	22.63	2.533E-05	2.5	6.37	2.5	0		
					0.5	Tbf	4			125	3	3.22	3.895	6	5	Tbf	5	24.66	1.754E-05	2.5	12.74	2.5	0		
					0	Tbf	4			150	3	4.1	3.455	20	5	Tbf	5	25.44	1.111E-05	2.5	19.11	2.5	0		
					-0.5	Tbf	4			200	4	4.44	3.22	60	5	Tbf	5	24.92	6.576E-06	2.5	25.48	2.5	0		
					-1	Tbf	4			225	4	4.51	2.875	300	5	Jg	5	23.56	3.62E-06	2.5	37.73	2.5	0		
					-1.5	Jz	4	240	5	240	5	4.56	2.415	300	4	Tr/Kgr	4	21.68	1.73E-06	2.5	50.47	2.5	1		
					-2			243	5	249	5	4.79	1.31	300	4	Tr/Kgr	4				63.21	2.5	1		
					-2.5					250	4			200	4	Tr/Kgr	4				74.97	2.5	0		
					-3					250	4			200	4	Tr/Kgr	4				86.73	2.5	0		
74-7	Producer	39.964	117.858	1059	1	Tbf	5			100	3	2.01	3.995	6	5	Tbf	5	22.63	2.533E-05	2.5	6.37	2.5	0		
					0.5	Tbf	5			125	3	3.22	3.895	6	5	Tbf	5	24.66	1.754E-05	2.5	12.74	2.5	0		
					0	Tbf	5			150	3	4.1	3.455	20	5	Tbf	5	25.44	1.111E-05	2.5	19.11	2.5	0		
					-0.5	Tbf	5			200	3	4.44	3.22	60	5	Tbf	5	24.92	6.576E-06	2.5	25.48	2.5	0		
					-1	Tbf	5			225	4	4.51	2.875	300	5	Jg	5	23.56	3.62E-06	2.5	37.73	2.5	0		
					-1.5	Jz	5			240	4	4.56	2.415	300	4	Tr/Kgr	4	21.68	1.73E-06	2.5	50.47	2.5	1		
					-2			249	5	249	5	4.79	1.31	300	4	Tr/Kgr	4				63.21	2.5	0		
					-2.5					250	4			200	4	Tr/Kgr	4				74.97	2.5	0		
					-3					250	4			200	4	Tr/Kgr	4				86.73	2.5	0		