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GENWAL RESOURCES, INC.

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DIV. OF OIL, GAS & MINING

August 11, 1998

Utah Coal Program
Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84118-5801

Re: Deficiencies in 1st Quarter Report, Genwal Resources, Inc., Crandall Canyon Mine, ACT/015/032.

#2

Copy Ken

Dear Sirs:

The three problems identified by the Division are addressed as follows:

1. Lower Flume flow reading of March 11, 1998: this is a 3 foot wide Parshall flume. The attached table will show that the depth reading translates into 146 gpm.

2. The sites which were sampled in addition to the approved plan are part of our ongoing investigation of age dating of the waters encountered in the mine. The data is submitted to the Division due to the requirements that all sampling be reported to the Division. Most of the sites are of short duration and are no longer available for further sampling. The four water monitoring wells were drilled at the request of the Forest Service and were approved by the Division. Their use was for LBA-11; the wells will be incorporated in the water monitoring plan for the LBA-11 permit change application. A table of water monitoring sites is attached for your use and will be submitted with each quarterly report.

3. The flow rate for the UPDES 002 discharge point is reported on the UPDES form. The form has two boxes for flow data – 30 day average and daily peak flow. The analytical result's form has the instantaneous flow at the time of sampling. The UPDES forms for January, February and March 1998 show the 30 day average flows of 0.55, 0.50 and 0.47 million gallons per day, or in terms of gallons per minute the flows are 382, 347 and 326 respectively.

Hopefully this information will correct the deficiencies and confusion. Please call if you have any questions or other problems.

Sincerely,

Gary E. Gray
Engineer

WATER VOLUMES FOR 3' PARSHALL FLUME

	FLOW AMOUNT			FLOW AMOUNT	
DEPTH	CFS	GPM	DEPTH	CFS	GPM
0	0	0	0.51	4.18	1,875
0.01	0.01	4	0.52	4.31	1,933
0.02	0.03	12	0.53	4.44	1,991
0.03	0.05	22	0.54	4.57	2,050
0.04	0.08	35	0.55	4.71	2,110
0.05	0.11	49	0.56	4.84	2,171
0.06	0.15	66	0.57	4.98	2,232
0.07	0.19	84	0.58	5.11	2,293
0.08	0.23	103	0.59	5.25	2,355
0.09	0.28	124	**0.6**	**5.39**	**2,418**
0.1	**0.33**	**146**	0.61	5.53	2,482
0.11	0.38	170	0.62	5.68	2,546
0.12	0.43	194	0.63	5.82	2,610
0.13	0.49	220	0.64	5.97	2,675
0.14	0.55	248	0.65	6.11	2,741
0.15	0.61	276	0.66	6.26	2,808
0.16	0.68	305	0.67	6.41	2,874
0.17	0.75	336	0.68	6.56	2,942
0.18	0.82	367	0.69	6.71	3,010
0.19	0.89	399	**0.7**	**6.86**	**3,079**
0.2	**0.96**	**433**	0.71	7.02	3,148
0.21	1.04	467	0.72	7.17	3,217
0.22	1.12	502	0.73	7.33	3,288
0.23	1.20	539	0.74	7.49	3,359
0.24	1.28	576	0.75	7.65	3,430
0.25	1.37	614	0.76	7.81	3,502
0.26	1.46	653	0.77	7.97	3,574
0.27	1.54	692	0.78	8.13	3,647
0.28	1.63	733	0.79	8.30	3,721
0.29	1.73	774	**0.8**	**8.46**	**3,795**
0.3	**1.82**	**817**	0.81	8.63	3,869
0.31	1.92	860	0.82	8.79	3,944
0.32	2.01	904	0.83	8.96	4,020
0.33	2.11	948	0.84	9.13	4,096
0.34	2.22	994	0.85	9.30	4,173
0.35	2.32	1,040	0.86	9.48	4,250
0.36	2.42	1,087	0.87	9.65	4,327
0.37	2.53	1,134	0.88	9.82	4,406
0.38	2.64	1,183	0.89	10.00	4,484
0.39	2.75	1,232	**0.9**	**10.17**	**4,563**
0.4	**2.86**	**1,282**	0.91	10.35	4,643
0.41	2.97	1,332	0.92	10.53	4,723
0.42	3.08	1,383	0.93	10.71	4,804
0.43	3.20	1,435	0.94	10.89	4,885
0.44	3.32	1,488	0.95	11.07	4,967
0.45	3.44	1,541	0.96	11.26	5,049
0.46	3.56	1,595	0.97	11.44	5,131
0.47	3.68	1,650	0.98	11.63	5,214
0.48	3.80	1,705	0.99	11.81	5,298
0.49	3.93	1,761	**1**	**12.00**	**5,382**
0.5	**4.05**	**1,818**	1.01	12.19	5,467

WATER VOLUMES FOR 3' PARSHALL FLUME

DEPTH	FLOW AMOUNT CFS	GPM	DEPTH	FLOW AMOUNT CFS	GPM
			1.51	22.88	10,262
1.01	12.19	5,467	1.52	23.12	10,369
1.02	12.38	5,552	1.53	23.36	10,476
1.03	12.57	5,637	1.54	23.60	10,583
1.04	12.76	5,723	1.55	23.84	10,691
1.05	12.95	5,809	1.56	24.08	10,799
1.06	13.15	5,896	1.57	24.32	10,908
1.07	13.34	5,984	1.58	24.56	11,017
1.08	13.54	6,071	1.59	24.81	11,126
1.09	13.73	6,160	**1.6**	**25.05**	**11,236**
1.1	**13.93**	**6,248**	1.61	25.30	11,346
1.11	14.13	6,338	1.62	25.54	11,457
1.12	14.33	6,427	1.63	25.79	11,568
1.13	14.53	6,517	1.64	26.04	11,679
1.14	14.73	6,608	1.65	26.29	11,791
1.15	14.94	6,699	1.66	26.54	11,903
1.16	15.14	6,790	1.67	26.79	12,015
1.17	15.35	6,882	1.68	27.04	12,128
1.18	15.55	6,975	1.69	27.29	12,242
1.19	15.76	7,067	**1.7**	**27.55**	**12,355**
1.2	**15.97**	**7,161**	1.71	27.80	12,469
1.21	16.17	7,254	1.72	28.06	12,584
1.22	16.38	7,348	1.73	28.31	12,698
1.23	16.60	7,443	1.74	28.57	12,814
1.24	16.81	7,538	1.75	28.83	12,929
1.25	17.02	7,633	1.76	29.09	13,045
1.26	17.23	7,729	1.77	29.34	13,161
1.27	17.45	7,825	1.78	29.60	13,278
1.28	17.66	7,922	1.79	29.87	13,395
1.29	17.88	8,019	**1.8**	**30.13**	**13,512**
1.3	**18.10**	**8,117**	1.81	30.39	13,630
1.31	18.32	8,215	1.82	30.65	13,748
1.32	18.54	8,313	1.83	30.92	13,867
1.33	18.76	8,412	1.84	31.18	13,985
1.34	18.98	8,511	1.85	31.45	14,105
1.35	19.20	8,611	1.86	31.72	14,224
1.36	19.42	8,711	1.87	31.98	14,344
1.37	19.65	8,812	1.88	32.25	14,464
1.38	19.87	8,913	1.89	32.52	14,585
1.39	20.10	9,014	**1.9**	**32.79**	**14,706**
1.4	**20.33**	**9,116**	1.91	33.06	14,828
1.41	20.55	9,218	1.92	33.33	14,949
1.42	20.78	9,321	1.93	33.60	15,071
1.43	21.01	9,424	1.94	33.88	15,194
1.44	21.24	9,527	1.95	34.15	15,317
1.45	21.47	9,631	1.96	34.43	15,440
1.46	21.71	9,735	1.97	34.70	15,563
1.47	21.94	9,840	1.98	34.98	15,687
1.48	22.17	9,945	1.99	35.25	15,812
1.49	22.41	10,050	**2**	**35.53**	**15,936**
1.5	**22.64**	**10,156**	2.01	35.81	16,061

Water Monitoring Program

Ground Water

Springs

1	SP-30	flow and field parameters quarterly
2	SP-36	flow, field parameters, and Table7-4 parameters quarterly
3	SP-58	flow, field parameters, and Table7-4 parameters quarterly
4	SP2-24	flow, field parameters, and Table7-4 parameters quarterly
5	SP2-9	flow, field parameters, and Table7-4 parameters quarterly
6	SP47A	flow and field parameters quarterly
7	SP1-3	flow and field parameters quarterly
8	SP1-19	flow and field parameters quarterly
9	SP1-22	flow and field parameters quarterly
10	SP1-33	flow, field parameters, and Table7-4 parameters quarterly
11	SP1-47	flow and field parameters quarterly
12	SP2-1	flow and field parameters quarterly
13	SP1-9	flow, field parameters, and Table7-4 parameters quarterly
14	SP1-24	flow and field parameters quarterly

Monitoring Wells

1	MW-1	flow, field parameters, and Table7-4 parameters quarterly
2	MW-2	flow, field parameters, and Table7-4 parameters quarterly

Surface Water

Streams

1	Upper Flume Crandall Creek	flow, field parameters, and Table7-8 parameters quarterly
2	Lower Flume Crandall Creek	flow, field parameters, and Table7-8 parameters quarterly
3	Horse Canyon Creek	flow, field parameters, and Table7-8 parameters quarterly
4	Blind Canyon Creek	flow, field parameters, and Table7-8 parameters quarterly
5	Indian Creek	flow, field parameters, and Table7-8 parameters quarterly

UPDES

1	001 -- Sed Pond Discharge	flow, field parameters, and UPDES parameters per occurrence
2	002 -- Mine Water Discharge	flow, field parameters, and UPDES parameters monthly