



Seneca Property, LLC
29515 Routt County Road 27
Oak Creek, CO. 80467

July 15, 2025

Ms. Robin Reilley
Division of Reclamation, Mining and Safety
1313 Sherman Street, Room 215
Denver, CO 80203-2273

RE: Seneca Yoast Mine; C-1994-082: Technical Revision TR54 Adequacy Review Response

Dear Ms. Reilley,
Seneca Properties, LLC (SPL) has reviewed the adequacy review regarding TR54 and is providing the following responses:

Rule 2.07.3

1. Please provide proof of Publication
 - a) Proof of publication is attached to this response

Rule 2.05.6

2. Please indicate to DRMS that monitoring occurred for the suspended wells for the 2023-2024 water year as per Tab 15 of the permit and cite the reference document for this data.
 - a) Suspended wells were re-initiated in 2015-2026 at the start of the final phase III bond release application. A final round of sampling was conducted in the spring of 2025 prior to abandonment for the final termination bond release. Results are attached to this response (Yoast SL9_BR Supplemental GW Data).

Rule 4.05.14, 4.07.3, 4.07.4

3. Will any wells including any proposed for reduced monitoring remain post-bond release? If so, please identify them and provide proof these wells are approved to remain for other purposes by the Colorado Division of Water Resources (State Engineer); and/or please provide proof these wells have been legally transferred in accordance with Rule 4.05.14?
 - a) Monitoring Wells YOV30, YW30, YWU30, YWC33, YWCU33, and YAAL 14 will remain post bond release at the request of the landowner, Sage Creek Holdings, LLC property. Copies of well permits with DWR are attached to this submittal.
4. Pursuant to Rule 4.07.3(2)(c) please provide abandonment reports for any wells abandoned as per Table 1.
 - a) An abandonment Progress report for the wells that have been abandoned in 2025 is attached to this submittal. The final report will be submitted upon completion of abandonment. Past abandonment reports can be found in Laserfiche.



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5. Also, Pursuant to Rule 4.07.3(2)(c) please provide abandonment reports for any wells planned to be abandoned prior to final bond release.
 - a) Peabody has not been able to get all the well abandonments completed but continues to work on them and will have them reclaimed by August 1st, 2025 at which time an abandonment report will be submitted to DRMS. These wells include YSAL12, YWU29, YW29, YW28, YWU28, YOV28, and YGAL15

If you have any questions or need additional information, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Miranda Kawcak". The script is cursive and fluid.

Miranda Kawcak
Environmental Manager
Peabody, Colorado Operations

Enclosures:

TR54 Proof of Publication
Yoast SL9 BR Supplemental GW Data
Yoast Well Abandonment 2025 Progress
"Well Permits" zip file

Table 1. Water quality data for well YGAL15 collected in 2025 and the two years prior to approved monitoring cessation.

Well	Date	Depth to Water ft btoc	pH, Field N S.U.	Temp., Field N C	SpC, Field N UMHOS/CM	Aluminum D MG/L	Arsenic D UG/L	Boron D UG/L	Cadmium D UG/L	Chloride N MG/L	Chromium D UG/L	Copper D UG/L	Fluoride N MG/L	Iron D MG/L
YGAL15	5/6/2014	0.38	7.08	7.2	5290	< 0.03	< 1	80	< 5	23	< 10	< 10	0.18	17.2
YGAL15	9/3/2014	1.5		12.9	5180	< 0.03	3	120	< 5	24.3	< 10	< 10	0.25	18.1
YGAL15	5/5/2015	3.83	7.49	7.7	5290	< 0.03	2	90	< 5	5.5	< 10	< 10	0.23	16.3
YGAL15	9/8/2015	4.92	7.26	13.4	4810	< 0.2	3	100	< 30	25	< 50	< 50	0.19	16.4
YGAL15	5/30/2025	3.6	7.1	12		< 1.4	2.9	< 30	< 8	20.3	< 20	< 10	0.19	13.6

Well	Date	Lead D UG/L	Manganese D MG/L	Mercury D UG/L	Nickel D UG/L	Nitrate N. N MG/L	Nitrite N. N MG/L	Selenium D UG/L	Sulfates N MG/L	Sulfide N MG/L	TDS, Lab N MG/L	Zinc D MG/L	Alk. as CaCO ₃ , N MG/L	Calcium D MG/L
YGAL15	5/6/2014	< 30	0.86	< 0.2	< 8	< 0.02	0.03	< 1	3070	1.6	4780	< 0.01	309	487
YGAL15	9/3/2014	< 30	0.86	< 0.2	< 8	< 0.02	< 0.01	< 1	2970	0.05	4820	< 0.01	380	487
YGAL15	5/5/2015	< 30	0.88	< 0.2	< 8	< 0.02	< 0.01	< 1	2820	0.34	4760	< 0.01	378	455
YGAL15	9/8/2015	< 200	0.85	< 0.2	< 40	0.2	0.04	< 1	2410	1.91	4270	< 0.05	358	457
YGAL15	5/30/2025	< 30	0.796	< 0.2	< 8	0.069	< 0.01	< 2	3190	< 0.15	4540	< 0.02	393	423

Well	Date	SpC, Lab N UMHOS/CM	Hardness N MG/L	Magnesium D MG/L	Potassium D MG/L	Sodium D MG/L	SAR N RATIO	Cation / Anion Balance N %	Bicarbonate as HCO ₃ N MG/L	Carbonate as CO ₃ N MG/L	Total Suspended Solids N MG/L	Total Dissolved Solids N MG/L
YGAL15	5/6/2014	5170	2110	217	7.1	673	6.45	1.4	377	< 2	52	4680
YGAL15	9/3/2014	5060	2090	212	8.3	686	6.6	1.4	464	< 2	34	4640
YGAL15	5/5/2015	4960	1940	196	6.6	617	6.2	< 0	461	< 2	103	4350
YGAL15	9/8/2015	4790	1940	194	9	599	6	5.6	437	< 2	83	3930
YGAL15	5/30/2025	4680	1880	201	< 0.5	595	6	-5.6	479	< 2	53	4690

Table 2. Water quality data for well YSAL12 collected in 2025 and the two years prior to approved monitoring cessation.

Well	Date	Depth to Water ft btoc	pH, Field N S.U.	Temp., Field N C	SpC, Field N UMHOS/CM	Aluminum D MG/L	Arsenic D UG/L	Boron D UG/L	Cadmium D UG/L	Chloride N MG/L	Chromium D UG/L	Copper D UG/L	Fluoride N MG/L	Iron D MG/L
YSAL12	5/7/2014	0.19	7.26	6.2	830	< 0.03	< 0.2	30	< 5	3.1	< 10	< 10	0.14	< 0.02
YSAL12	9/4/2014	5	7.18	9.4	940	< 0.03	1.3	60	< 5	3.9	< 10	< 10	0.16	1.01
YSAL12	5/11/2015	2.99	7.6	6.8	690	< 0.03	< 0.2	30	< 5	2.6	< 10	< 10	0.16	< 0.02
YSAL12	9/9/2015	7.9	7.15	9	940	< 0.03	1.1	50	< 5	3.8	< 10	< 10	0.17	0.96
YSAL12	5/29/2025	6.6	7.2	11.9	810	0.52	2.1	33	< 8	4.02	< 20	< 10	< 0.15	5.37

Well	Date	Lead D UG/L	Manganese D MG/L	Mercury D UG/L	Nickel D UG/L	Nitrate N. N MG/L	Nitrite N. N MG/L	Selenium D UG/L	Sulfates N MG/L	Sulfide N MG/L	TDS, Lab N MG/L	Zinc D MG/L	Alk. as CaCO ₃ , @ pH 4.5 N MG/L	Calcium D MG/L
YSAL12	5/7/2014	< 30	0.02	< 0.2	< 8	0.1	< 0.01	< 1	190	< 0.02	490	< 0.01	205	87.5
YSAL12	9/4/2014	< 30	0.11	< 0.2	< 8	< 0.02	0.07	< 1	210	< 0.8	600	< 0.01	295	113
YSAL12	5/11/2015	< 30	0.02	< 0.2	< 8	< 0.02	< 0.01	< 1	110	< 0.02	406	< 0.01	257	76.4
YSAL12	9/9/2015	< 30	0.17	< 0.2	< 8	0.19	< 0.01	< 1	190	< 0.02	978	< 0.01	323	108
YSAL12	5/29/2025	< 30	0.135	< 0.2	< 8	< 0.02	< 0.01	< 2	119	< 0.3	444	< 0.02	265	80.5

Well	Date	SpC, Lab N UMHOS/CM	Hardness N MG/L	Magnesium D MG/L	Potassium D MG/L	Sodium D MG/L	SAR N RATIO	Cation / Anion Balance N %	Bicarbonate as HCO ₃ N MG/L	Carbonate as CO ₃ N MG/L	Total Suspended Solids N MG/L	Total Dissolved Solids (Calculated) N MG/L
YSAL12	5/7/2014	770	382	39.6	1.4	13.8	0.31	0.6	250	< 2	32	459
YSAL12	9/4/2014	867	459	43	2.5	34.8	0.71	4.8	360	< 2	4240	589
YSAL12	5/11/2015	641	330	33.8	1.2	12.7	0.31	< -2	313	< 2	52	394
YSAL12	9/9/2015	802	439	41.2	2.5	33.7	0.71	< -4.8	395	< 2	2930	578
YSAL12	5/29/2025	692	352	36.6	1.16	16.6	0.39	1.3	323	< 2	39	426

Table 3. Water quality data for well YOV28 collected in 2025 and the two years prior to approved monitoring cessation.

Well	Date	Depth to Water ft btoc	pH, Field N S.U.	Temp., Field N C	SpC, Field N UMHOS/CM	Aluminum D MG/L	Arsenic D UG/L	Boron D UG/L	Cadmium D UG/L	Chloride N MG/L	Chromium D UG/L	Copper D UG/L	Fluoride N MG/L	Iron D MG/L
YOV28	5/21/2014	140.61	7.16	10	1460	< 0.03	< 0.2	90	< 5	11.4	< 10	< 10	0.13	0.3
YOV28	9/8/2014	140.51	6.97	10.2	1580	0.06	< 0.2	110	< 5	12.8	< 10	< 10	0.15	0.46
YOV28	6/2/2015	144.28	7.44	10.8	2070	< 0.03	< 0.2	120	< 5	23.6	< 10	< 10	0.21	1.1
YOV28	9/3/2015	142.73	7.28	9.9	2890	< 0.06	< 0.4	260	< 10	37.4	< 20	< 20	0.21	< 0.04
YOV28	5/30/2025	147.5	7.2	9.6	1800	< 0.07	0.29	128	< 8	21.6	< 20	< 10	0.16	0.9

Well	Date	Lead D UG/L	Manganese D MG/L	Mercury D UG/L	Nickel D UG/L	Nitrate N. N MG/L	Nitrite N. N MG/L	Selenium D UG/L	Sulfates N MG/L	Sulfide N MG/L	TDS, Lab N MG/L	Zinc D MG/L	Alk. as CaCO ₃ , @ pH 4.5 N MG/L	Calcium D MG/L
YOV28	5/21/2014	< 30	0.02	< 0.2	< 8	< 0.02	< 0.01	< 1	290	< 0.02	890	< 0.01	430	124
YOV28	9/8/2014	< 30	0.03	< 0.2	< 8	< 0.02	< 0.01	< 1	340	< 0.02	990	< 0.01	541	127
YOV28	6/2/2015	< 30	0.03	< 0.2	< 8	< 0.02	0.03	< 1	540	0.11	1400	< 0.01	592	132
YOV28	9/3/2015	< 60	0.04	< 0.2	< 20	0.93	< 0.01	< 1	930	< 0.02	2070	0.04	701	132
YOV28	5/30/2025	< 30	0.068	< 0.2	< 8	0.027	< 0.01	< 2	600	0.064	1370	0.133	597	129

Well	Date	SpC, Lab N UMHOS/CM	Hardness N MG/L	Magnesium D MG/L	Potassium D MG/L	Sodium D MG/L	SAR N RATIO	Cation / Anion Balance N %	Bicarbonate as HCO ₃ N MG/L	Carbonate as CO ₃ N MG/L	Total Suspended Solids N MG/L	Total Dissolved Solids (Calculated) N MG/L
YOV28	5/21/2014	1400	572	63.8	4.3	105	1.93	3.2	525	< 2	24	857
YOV28	9/8/2014	1480	582	64.4	4.3	130	2.4	< 0	660	< 2	12	1010
YOV28	6/2/2015	1930	604	66.6	4.5	240	4.3	< -2.1	722	< 2	7	1370
YOV28	9/3/2015	2670	644	76.3	5.3	430	7.5	< -4.5	855	< 2	7	2040
YOV28	5/30/2025	1930	607	69.2	4.4	238	4.3	-4.2	728	< 2	17	1430

Table 4. Water quality data for well YW28 collected in 2025 and the two years prior to approved monitoring cessation.

Well	Date	Depth to Water ft btoc	pH, Field N S.U.	Temp., Field N C	SpC, Field N UMHOS/CM	Aluminum D MG/L	Arsenic D UG/L	Boron D UG/L	Cadmium D UG/L	Chloride N MG/L	Chromium D UG/L	Copper D UG/L	Fluoride N MG/L	Iron D MG/L
YW28	5/21/2014	149.55	7.29	10	1700	< 0.03	4.3	170	< 5	17.8	< 10	< 10	0.13	0.32
YW28	9/8/2014	149.44	7.06	10.3	1580	0.06	3.1	160	< 5	13.6	< 10	< 10	0.12	0.46
YW28	6/2/2015	152.93	7.37	10.4	1430	< 0.03	1.4	120	< 5	11.1	< 10	< 10	0.12	0.52
YW28	9/3/2015	153.19	7.12	9.5	1400	< 0.03	1.7	110	< 5	10.6	< 10	< 10	0.08	0.52
YW28	5/30/2025	165.1	7.3	9.4	1130	< 0.07	3.41	106	< 8	10.7	< 20	< 10	< 0.15	0.24

Well	Date	Lead D UG/L	Manganese D MG/L	Mercury D UG/L	Nickel D UG/L	Nitrate N. N MG/L	Nitrite N. N MG/L	Selenium D UG/L	Sulfates N MG/L	Sulfide N MG/L	TDS, Lab N MG/L	Zinc D MG/L	Alk. as CaCO ₃ , @ pH 4.5 N MG/L	Calcium D MG/L
YW28	5/21/2014	< 30	0.07	< 0.2	< 8	< 0.02	< 0.01	< 1	410	< 0.02	1080	< 0.01	449	115
YW28	9/8/2014	< 30	0.09	< 0.2	< 8	< 0.02	< 0.01	< 1	340	< 0.02	1000	< 0.01	550	128
YW28	6/2/2015	< 30	0.09	< 0.2	< 8	< 0.02	0.03	< 1	280	< 0.02	932	< 0.01	545	133
YW28	9/3/2015	< 30	0.09	< 0.2	< 8	< 0.02	< 0.01	< 1	270	< 0.02	900	< 0.01	558	134
YW28	5/30/2025	< 30	0.018	< 0.2	< 8	1.59	< 0.01	3.2	253	< 0.02	802	0.062	442	101

Well	Date	SpC, Lab N UMHOS/CM	Hardness N MG/L	Magnesium D MG/L	Potassium D MG/L	Sodium D MG/L	SAR N RATIO	Cation / Anion Balance N %	Bicarbonate as HCO ₃ N MG/L	Carbonate as CO ₃ N MG/L	Total Suspended Solids N MG/L	Total Dissolved Solids (Calculated) N MG/L
YW28	5/21/2014	1630	586	72.5	4.6	156	2.84	2.7	548	< 2	< 5	1050
YW28	9/8/2014	1470	643	78.6	4.9	106	1.8	< -2.7	671	< 2	7	1010
YW28	6/2/2015	1340	664	80.7	4.9	58.2	0.99	< -3	665	< 2	< 5	901
YW28	9/3/2015	1270	671	81.7	4.8	50.8	0.86	< -3	681	< 2	9	893
YW28	5/30/2025	1190	505	61.3	4.11	80.8	1.6	-3.4	539	< 2	8	781

Table 5. Water quality data for well YW29 collected in 2025 and the two years prior to approved monitoring cessation.

Well	Date	Depth to Water ft btoc	pH, Field N S.U.	Temp., Field N C	SpC, Field N UMHOS/CM	Aluminum D MG/L	Arsenic D UG/L	Boron D UG/L	Cadmium D UG/L	Chloride N MG/L	Chromium D UG/L	Copper D UG/L	Fluoride N MG/L	Iron D MG/L
YW29	5/21/2014	177.11	8.21	9.1	830	< 0.03	< 0.2	170	< 5	2.8	< 10	< 10	0.87	< 0.02
YW29	9/8/2014	175.75	8.08	10	830	0.06	< 0.2	170	< 5	2.7	< 10	< 10	0.88	0.08
YW29	6/2/2015	178.09	8.27	9.7	810	0.09	< 0.2	180	< 5	2.9	< 10	< 10	0.86	0.18
YW29	9/3/2015	177.65	8.09	8.9	790	< 0.03	< 0.2	160	< 5	2.7	< 10	< 10	0.94	0.05
YW29	5/29/2025	175.2	7.8	13	680	< 0.07	< 0.4	171	< 8	2.78	< 20	< 10	0.83	0.118

Well	Date	Lead D UG/L	Manganese D MG/L	Mercury D UG/L	Nickel D UG/L	Nitrate N. N MG/L	Nitrite N. N MG/L	Selenium D UG/L	Sulfates N MG/L	Sulfide N MG/L	TDS, Lab N MG/L	Zinc D MG/L	Alk. as CaCO ₃ , @ pH 4.5 N MG/L	Calcium D MG/L
YW29	5/21/2014	< 30	< 0.01	< 0.2	< 8	0.09	< 0.01	< 1	60	< 0.02	450	< 0.01	341	10.2
YW29	9/8/2014	< 30	0.01	< 0.2	< 8	< 0.02	< 0.01	< 1	20	< 0.02	450	< 0.01	419	8.9
YW29	6/2/2015	< 30	< 0.01	< 0.2	< 8	1.34	0.03	< 1	20	0.08	466	0.04	408	7.6
YW29	9/3/2015	< 30	0.01	< 0.2	< 8	0.15	< 0.01	< 1	< 10	< 0.02	450	0.02	415	9.2
YW29	5/29/2025	< 30	< 0.01	0.22	< 8	0.094	< 0.01	< 2	19	< 0.02	466	0.04	413	9.24

Well	Date	SpC, Lab N UMHOS/CM	Hardness N MG/L	Magnesium D MG/L	Potassium D MG/L	Sodium D MG/L	SAR N RATIO	Cation / Anion Balance N %	Bicarbonate as HCO ₃ N MG/L	Carbonate as CO ₃ N MG/L	Total Suspended Solids N MG/L	Total Dissolved Solids (Calculated) N MG/L
YW29	5/21/2014	760	44	4.5	2.6	204	13.5	9.4	397	9	19	490
YW29	9/8/2014	755	38	3.7	2.4	168	12	< -4.1	486	12.7	< 5	462
YW29	6/2/2015	774	33	3.5	2.5	198	15	3.8	462	17.8	< 5	491
YW29	9/3/2015	742	38	3.7	2.4	159	11	< -4.9	472	16.6	< 5	441
YW29	5/29/2025	769	39	3.91	2.4	178	13	-0.6	472	15.6	33	468

Table 6. Water quality data for well YWU28 collected in 2025 and the two years prior to approved monitoring cessation.

Well	Date	Depth to Water ft btoc	pH, Field N S.U.	Temp., Field N C	SpC, Field N UMHOS/CM	Aluminum D MG/L	Arsenic D UG/L	Boron D UG/L	Cadmium D UG/L	Chloride N MG/L	Chromium D UG/L	Copper D UG/L	Fluoride N MG/L	Iron D MG/L
YWU28	5/21/2014	294.01	7.34	11.1	1510	< 0.03	1.2	120	< 5	9.6	< 10	< 10	0.08	0.21
YWU28	9/8/2014	292.85	7.14	11.2	1510	0.07	1.3	130	< 5	9.4	< 10	< 10	0.12	0.15
YWU28	6/2/2015	296.75	7.5	10.6	1390	< 0.03	1.2	120	< 5	9	< 10	< 10	0.11	0.07
YWU28	9/3/2015	297.27	7.27	10.5	1410	< 0.03	1.2	110	< 5	9.1	< 10	< 10	0.07	0.07
YWU28	5/30/2025	309.2	7.1	11	1210	< 0.07	0.62	99	< 8	8.77	< 20	< 10	< 0.15	0.177

Well	Date	Lead D UG/L	Manganese D MG/L	Mercury D UG/L	Nickel D UG/L	Nitrate N. N MG/L	Nitrite N. N MG/L	Selenium D UG/L	Sulfates N MG/L	Sulfide N MG/L	TDS, Lab N MG/L	Zinc D MG/L	Alk. as CaCO ₃ , @ pH 4.5 N MG/L	Calcium D MG/L
YWU28	5/21/2014	< 30	0.14	< 0.2	< 8	< 0.02	< 0.01	< 1	320	< 0.02	940	< 0.01	440	134
YWU28	9/8/2014	< 30	0.15	< 0.2	< 8	< 0.02	< 0.01	< 1	310	< 0.02	950	< 0.01	553	134
YWU28	6/2/2015	< 30	0.16	< 0.2	< 8	0.1	0.03	< 1	270	< 0.2	920	0.02	517	127
YWU28	9/3/2015	< 30	0.17	< 0.2	< 8	< 0.02	< 0.01	< 1	280	< 0.02	940	< 0.01	550	133
YWU28	5/30/2025	< 30	0.107	< 0.2	< 8	0.509	< 0.01	< 2	265	< 0.02	800	0.062	511	112

Well	Date	SpC, Lab N UMHOS/CM	Hardness N MG/L	Magnesium D MG/L	Potassium D MG/L	Sodium D MG/L	SAR N RATIO	Cation / Anion Balance N %	Bicarbonate as HCO ₃ N MG/L	Carbonate as CO ₃ N MG/L	Total Suspended Solids N MG/L	Total Dissolved Solids (Calculated) N MG/L
YWU28	5/21/2014	1420	663	79.8	5.1	77.7	1.33	3	536	< 2	18	891
YWU28	9/8/2014	1390	660	79.1	5	77.5	1.3	< -2.9	674	< 2	12	953
YWU28	6/2/2015	1300	619	73.2	4.8	67.4	1.2	< 0	631	< 2	228	868
YWU28	9/3/2015	1280	652	77.7	4.9	68.1	1.2	< -3	671	< 2	8	909
YWU28	5/30/2025	1270	563	68.8	4.44	82.3	1.5	-3.2	623	< 2	5	853

Table 7. Water quality data for well YWU29 collected in 2025 and the two years prior to approved monitoring cessation.

Well	Date	Depth to Water ft btoc	pH, Field N S.U.	Temp., Field N C	SpC, Field N UMHOS/CM	Aluminum D MG/L	Arsenic D UG/L	Boron D UG/L	Cadmium D UG/L	Chloride N MG/L	Chromium D UG/L	Copper D UG/L	Fluoride N MG/L	Iron D MG/L
YWU29	5/21/2014	190.69	7.34	10.2	810	< 0.03	< 0.2	110	< 5	2.5	< 10	< 10	0.17	0.51
YWU29	9/8/2014	189.41	7.06	9.9	810	0.04	< 0.2	120	< 5	2.8	< 10	< 10	0.22	0.48
YWU29	6/2/2015	192.68	7.57	9.3	760	0.2	< 0.2	110	< 5	2.7	< 10	< 10	0.22	0.39
YWU29	9/3/2015	193.72	7.16	10.2	770	< 0.03	< 0.2	110	< 5	2.5	< 10	< 10	0.16	0.51
YWU29	5/29/2025	196.3	7.2	11	670	0.254	0.97	113	< 8	2.35	< 20	< 10	0.19	2.03

Well	Date	Lead D UG/L	Manganese D MG/L	Mercury D UG/L	Nickel D UG/L	Nitrate N. N MG/L	Nitrite N. N MG/L	Selenium D UG/L	Sulfates N MG/L	Sulfide N MG/L	TDS, Lab N MG/L	Zinc D MG/L	Alk. as CaCO ₃ , @ pH 4.5 N MG/L	Calcium D MG/L
YWU29	5/21/2014	< 30	0.01	< 0.2	< 8	< 0.02	< 0.01	< 1	30	< 0.02	420	< 0.01	342	70
YWU29	9/8/2014	< 30	0.02	< 0.2	< 8	< 0.02	< 0.01	< 1	30	< 0.02	420	< 0.01	420	69.9
YWU29	6/2/2015	< 30	0.02	< 0.2	< 8	0.33	0.03	< 1	30	< 0.02	430	0.02	397	67.3
YWU29	9/3/2015	< 30	0.02	< 0.2	< 8	< 0.02	< 0.01	< 1	30	< 0.02	426	< 0.01	421	70.7
YWU29	5/29/2025	< 30	0.068	< 0.2	< 8	0.099	< 0.01	< 2	21.1	< 0.15	430	0.084	390	65.5

Well	Date	SpC, Lab N UMHOS/CM	Hardness N MG/L	Magnesium D MG/L	Potassium D MG/L	Sodium D MG/L	SAR N RATIO	Cation / Anion Balance N %	Bicarbonate as HCO ₃ N MG/L	Carbonate as CO ₃ N MG/L	Total Suspended Solids N MG/L	Total Dissolved Solids (Calculated) N MG/L
YWU29	5/21/2014	747	343	40.8	3.5	30.9	0.74	4.4	417	< 2	< 5	384
YWU29	9/8/2014	737	341	40.5	3.5	30.7	0.73	< -4.6	513	< 2	6	434
YWU29	6/2/2015	730	324	37.9	3.7	33.5	0.82	< -3.6	484	< 2	< 5	420
YWU29	9/3/2015	708	346	41.1	3.5	29.2	0.69	< -4.6	514	< 2	7	434
YWU29	5/29/2025	717	327	39.8	3.62	37.1	0.9	0.6	476	< 2	104	410

Table 8. Water level data for well YOV29 collected in 2025 and 2015 before approved monitoring cessation.

Well	Date	Depth to Water ft btoc
YOV29	6/2/2015	Dry
YOV29	9/3/2015	Dry
YOV29	5/29/2025	Dry

FORM NO.
GWS-32
10/84

PUMP INSTALLATION AND TEST REPORT
STATE OF COLORADO, OFFICE OF THE STATE ENGINEER

For Office Use only

RECEIVED

JUL 31 1997

STATE ENGINEER
COLORADO

1.	WELL PERMIT NUMBER #046517F
2.	OWNER NAME(S) SENECA COAL COMPANY Mailing Address Drawer D City, St. Zip Hayden, CO 81639 Phone (970) 276-2607

3.	WELL LOCATION AS DRILLED: NW 1/4 NE 1/4, Sec. 8 Twp. 5 N, Range 87 W DISTANCES FROM SEC. LINES: 620 ft. from North Sec. line. and 2220 ft. from East Sec. line. (north or south) (east or west) SUBDIVISION: LOT BLOCK FILING(UNIT) STREET ADDRESS AT WELL LOCATION: 36600 RCR #27, Hayden, CO 81639
----	---

4.	PUMP DATA: Type SUBMERSIBLE Installation Completed 6-05-97 Pump Manufacturer GOULDS Pump Model No. 10GS50434 Design GPM 10 at RPM 3450, HP 5, Volts 460, Full Load Amps 5.7 Pump Intake Depth 744 Feet, Drop/Column Pipe Size 1 1/2 inches, Kind Sch. 40 Galv. ADDITIONAL INFORMATION FOR PUMPS GREATER THAN 50 GPM: TURBINE DRIVER TYPE: <input type="checkbox"/> Electric <input type="checkbox"/> Engine <input type="checkbox"/> Other Design Head feet, Number of Stages, Shaft size inches.
----	---

5.	OTHER EQUIPMENT: Airline Installed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, Orifice Depth ft. 741 Monitor Tube Installed <input type="checkbox"/> Yes <input type="checkbox"/> No, Depth ft. Flow Meter Mfg. Meter Serial No. Meter Readout <input type="checkbox"/> Gallons, <input type="checkbox"/> Thousand Gallons, <input type="checkbox"/> Acre feet, <input type="checkbox"/> Beginning Reading
----	--

6.	TEST DATA: <input type="checkbox"/> Check box if Test data is submitted on Supplemental Form. Date 6-06-97 Total Well Depth 1000' Time 8.6 hrs. Static Level 10' Rate (GPM) 10 Date Measured 6/06/97 Pumping Lvl. 678'
----	--

7.	DISINFECTION: Type CALCIUM HYDROCHLORITE Amt. Used 30 OZ.
----	---

8.	Water Quality analysis available. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
----	---

9.	Remarks
----	---------

10. I have read the statements made herein and know the contents thereof, and that they are true to my knowledge.
[Pursuant to Section 24-4-104 (13)(a) C.R.S., the making of false statements herein constitutes perjury in the second degree and is punishable as a class 1 misdemeanor.]

CONTRACTOR HOWARD'S AQUA SYSTEMS Phone (970) 824-7053 Lic. No. 1093
Mailing Address 351 School Street Craig, CO 81625

Name/Title (Please type or print) HOWARD W. RITCHIE- OWNER	Signature <i>Howard W. Ritchie</i>	Date 7/28/97
---	---------------------------------------	-----------------

INSTRUCTIONS FOR PUMP INSTALLATION REPORT

The report must be typed or printed in **BLACK INK**. All changes on the form must be initialed and dated. Attach additional sheets if more space is required. Each additional sheet must be identified at the top by the well owner's name, the permit number, form name/number and a sequential page number. Report depths in feet below ground surface.

This form may be reproduced by photocopy methods, or by computer generation with prior approval by the State Engineer. Photocopy reproductions must retain margins and print quality of the original form.

The original form must be submitted to the State Engineer's Office within 60 days after completing the well or 7 days after the permit expiration date, whichever is earlier.

A copy of the form must be provided to the well owner.

If this form is submitted in conjunction with the Well Completion and Test Report, form number GWS-31, ONLY THE PERMIT NUMBER AND OWNER NAME NEED TO BE COMPLETED in items 1 and 2.

1. Complete the Permit Number in full.
2. Fill in Name and Mailing Address of Well Owner where correspondence should be sent.
3. Complete the blocks for the actual location of the well. For wells located in subdivisions the lot, block and subdivision information must also be provided.
4. Indicate the type of pump installed and complete the requested information. When installing pumps greater than 50 gpm, complete the additional information in this area.
5. Provide the information on other equipment which may be installed in the well.
6. Report test data as required by Rule 13.9. Spaces are provided to report all measurements made during the test. The report should show that the test complied with the provisions of the rules. If a test was not performed explain when it will be done. If available, report clock time when measurements were taken.
7. Record the type and the amount of disinfection used, how placed and the length of time left in the hole.
8. Indicate if a water quality analysis was performed and submit a copy of the report if available.
9. Use the remarks area to note any additional information including additional equipment installed, water supply construction problems.
10. Fill in Company Name and Address of Contractor who installed pumping equipment. The report must be signed by the licensed contractor responsible for the installation of pumping equipment.

<small>FORM NO. GWS-31 11/90</small> WELL CONSTRUCTION AND TEST REPORT STATE OF COLORADO, OFFICE OF THE STATE ENGINEER		<small>For Office Use only</small> RECEIVED OCT 21 1996 <small>WATER RESOURCES STATE ENGINEER COLO.</small>																										
1.	WELL PERMIT NUMBER <u>0465717-F</u>																											
2.	OWNER NAME(S) <u>SENECA COAL CO.</u> Mailing Address <u>DANVER, CO</u> City, St. Zip <u>DANVER COLO. 81639</u> Phone <u>(970) 246-3707</u>																											
3.	WELL LOCATION AS DRILLED: <u>NW 1/4 NE 1/4, Sec. 8 Twp. 5 N Range 87 W</u> DISTANCES FROM SEC. LINES: <u>630</u> ft. from <u>NO</u> Sec. line. and <u>2200</u> ft. from <u>E</u> Sec. line. OR <small>(north or south) (east or west)</small> SUBDIVISION: _____ LOT _____ BLOCK _____ FILING(UNIT) _____ STREET ADDRESS AT WELL LOCATION: _____																											
4.	GROUND SURFACE ELEVATION _____ ft. DRILLING METHOD <u>Rotary w/Mud</u> DATE COMPLETED <u>9-2-96</u> TOTAL DEPTH <u>1000</u> ft. DEPTH COMPLETED <u>1000</u> ft.																											
5. GEOLOGIC LOG: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Depth</th> <th>Description of Material (Type, Size, Color, Water Location)</th> </tr> </thead> <tbody> <tr><td>0 - 3</td><td>top soil</td></tr> <tr><td>3 - 75</td><td>silty clay tan</td></tr> <tr><td>75 - 440</td><td>shale</td></tr> <tr><td>440 - 450</td><td>coal</td></tr> <tr><td>450 - 660</td><td>silty shale gray</td></tr> <tr><td>660 - 680</td><td>ss. gray</td></tr> <tr><td>680 - 900</td><td>shale gray</td></tr> <tr><td>900 - 800</td><td>ss. gray</td></tr> <tr><td>800 - 870</td><td>shale black</td></tr> <tr><td>870 - 1000</td><td>ss. gray</td></tr> <tr><td>1000 - 1100</td><td>ss. silty w/ coal seams</td></tr> </tbody> </table>		Depth	Description of Material (Type, Size, Color, Water Location)	0 - 3	top soil	3 - 75	silty clay tan	75 - 440	shale	440 - 450	coal	450 - 660	silty shale gray	660 - 680	ss. gray	680 - 900	shale gray	900 - 800	ss. gray	800 - 870	shale black	870 - 1000	ss. gray	1000 - 1100	ss. silty w/ coal seams	6. HOLE DIAM. (in.) From (ft) To (ft) <u>9"</u> <u>0</u> <u>1000</u> <hr/> <hr/> <hr/>		
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		8. FILTER PACK: Material <u>silica sand</u> Size <u>#-12</u> Interval <u>900-1000</u>	9. PACKER PLACEMENT: Type _____ Depth _____																									
REMARKS: 		10. GROUTING RECORD: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Material</th> <th>Amount</th> <th>Density</th> <th>Interval</th> <th>Placement</th> </tr> </thead> <tbody> <tr> <td><u>Quickcrete</u></td> <td><u>50 SK</u></td> <td><u>9.4</u></td> <td><u>21-900</u></td> <td><u>trimming</u></td> </tr> <tr> <td><u>Portland</u></td> <td><u>4 SK</u></td> <td><u>14.9 GAL</u></td> <td><u>10-21</u></td> <td><u>Packer</u></td> </tr> </tbody> </table>		Material	Amount	Density	Interval	Placement	<u>Quickcrete</u>	<u>50 SK</u>	<u>9.4</u>	<u>21-900</u>	<u>trimming</u>	<u>Portland</u>	<u>4 SK</u>	<u>14.9 GAL</u>	<u>10-21</u>	<u>Packer</u>										
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11.	DISINFECTION: Type <u>Chlorox</u> Amt. Used <u>3 GAL in displacement water</u>																											
12.	WELL TEST DATA: <input type="checkbox"/> Check box if Test Data is submitted on Supplemental Form. TESTING METHOD Static Level <u>80</u> ft. Date/Time measured _____ Production Rate _____ gpm. Pumping level _____ ft. Date/Time measured _____ Test length (hrs.) _____ Remarks _____																											
13. I have read the statements made herein and know the contents thereof, and that they are true to my knowledge. [Pursuant to Section 24-4-104 (13)(a) C.R.S., the making of false statements herein constitutes perjury in the second degree and is punishable as a class 1 misdemeanor.]																												
CONTRACTOR <u>Gary Owenksky</u> Phone <u>(930) 824-8215</u> Lic. No. <u>1746</u> Mailing Address _____		Name/Title (Please type or print) <u>Gary Owenksky Owner</u> Signature <u>[Signature]</u> Date <u>10-18-96</u>																										

OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

LIC

APPLICANT

WELL PERMIT NUMBER 046517 - F
DIV. 6 CNTY. 54 WD 57 DES. BASIN MD

Lot: Block: Filing: Subdiv:

SENECA COAL CO
DRAWER D
HAYDEN CO 81639-

(970)276-3707

APPROVED WELL LOCATION
ROUTT COUNTY

NW 1/4 NE 1/4 Section 8
Twp 5 N RANGE 87 W 6th P.M.

DISTANCES FROM SECTION LINES

620 Ft. from North Section Line
2220 Ft. from East Section Line

PERMIT TO CONSTRUCT A WELL

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT
CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-90-137(2) for the construction of a well to divert ground water tributary to Grassy Creek, a tributary of the Yampa River, at a point where unappropriated water is available for withdrawal.
- 4) The maximum pumping rate shall not exceed 35 GPM.
- 5) The annual amount of ground water to be appropriated shall not exceed 41 acre-feet.
- 6) The use of ground water from this well is limited to drinking, washing, and sanitary uses for mine employees, and for industrial purposes, including dust suppression, equipment washing and reclamation. This well is to be known as the Seneca Yoast Mine Shop Well. (pending court cases 95CW73 and 95CW71)
- 7) The approval of this permit does not grant a water right. This well is subject to administration by the Division Engineer in accordance with applicable decrees, statutes, rules, and regulations.
- 8) A totalizing flow meter must be installed on the well and be maintained in good working order. Permanent records of all diversions must be maintained by the well owner (recorded at least annually) and submitted to the Division Engineer upon request.
- 9) This well shall be constructed not more than 200 feet from the location specified on this permit, and at least 600 feet from any other existing well, unless the other existing well is owned by the applicant.
- 10) The owner shall mark the well in a conspicuous place with well permit number(s), name of the aquifer, and court case number(s) as appropriate. The owner shall take necessary means and precautions to preserve these markings.

95-6-96

APPROVED
TLC

He D. Simpson
State Engineer

Receipt No. 0398500

DATE ISSUED MAY 08 1996

David J. Fox
By

EXPIRATION DATE MAY 08 1997

APR 01 1996

GENERAL PURPOSE

(Please note: other forms are available for specific uses including - residential, livestock, monitoring/observ., gravel pits, registration of old wells)
Review instructions prior to completing form

Water Well Permit Application

Must be completed in black ink or typed

1. APPLICANT INFORMATION				6. USE OF WELL (please attach detailed description)			
Name of applicant Seneca Coal Company				<input checked="" type="checkbox"/> INDUSTRIAL <input type="checkbox"/> OTHER: <input type="checkbox"/> COMMERCIAL <input type="checkbox"/> MUNICIPAL detailed description of use is attached as Exhibit B <input type="checkbox"/> IRRIGATION <input type="checkbox"/> FEED LOT - number of head :			
Mailing Address Post Office Drawer D							
City Hayden		State CO		Zip Code 81639			
Telephone number (include area code) (970) 276-3707							
2. TYPE OF APPLICATION (check applicable box(es))				7. WELL DATA			
<input checked="" type="checkbox"/> Construct new well <input type="checkbox"/> Use existing well <input type="checkbox"/> Replace existing well <input type="checkbox"/> Change or Increase Use <input type="checkbox"/> Change (source) Aquifer <input type="checkbox"/> Reapplication (expired permit) <input type="checkbox"/> Other:				Maximum pumping rate 35 gpm Annual amount acre-feet			
				Total depth est. 1220 feet Aquifer Trout Creek Sandstone Formation			
3. REFER TO (if applicable):				8. LAND ON WHICH GROUND WATER WILL BE USED			
Water court case # 95 CW 73		Permit #		A. LEGAL DESCRIPTION (may be provided as an attachment): legal description attached as Exhibit A (If used for crop irrigation, attach scaled map that shows irrigated area.)			
Emergency Verbal # -VE-		Monitoring hole acknowledgment # MH-		B. # acres 2253.3 C. Owner/lessee Seneca Coal Company			
Well name or # Seneca Yoast Mine Shop Well				D. List any other wells or water rights used on this land: See Exhibit C, attached.			
4. LOCATION OF WELL				9. PROPOSED WELL DRILLER (optional)			
County Routt		Quarter/quarter NW 1/4		Quarter NE 1/4		Name Dennis Jones License number	
Section 8		Township N or S S		Range E or W 87		Principal Meridian 6th	
Distance of well from section lines 620 ft from N 1/4 S 2220 ft from E 1/4 W							
Well location address, if different from applicant address (if applicable)				Must be original signature Dennis Jones			
For replacement wells only - distance and direction from old well to new well feet direction				Title Dennis Jones, Hydrologist Date 3/28/96			
5. TRACT ON WHICH WELL WILL BE LOCATED				10. SIGNATURE of applicant(s) or authorized agent			
A. LEGAL DESCRIPTION (may be provided as an attachment): legal description attached as Exhibit A				The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104(13)(a). I have read the statements herein, know the contents thereof, and state that they are true to my knowledge.			
B. STATE PARCEL ID# (optional):				Must be original signature Dennis Jones			
C. # acres in tract 2253.3		D. Owner/lessee Seneca Coal Company		Title Dennis Jones, Hydrologist Date 3/28/96			
E. Will this be the only well on this tract? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (if other wells are on this tract, see detailed inst.)				OPTIONAL INFORMATION			
				USGS map name Mt. Harris (1971) DWR map no. 18.5 Surface elev.			
				Office Use Only non-crit, per Routt Cty. map 4-3-96 ✓ well book - nothing else in this section ✓ tabs - no wells in this section ✓ plotted ✓ pulled 95 CW 73 CHECKS TRN398500 040196 DIV OF WATER RESOURCES 5.696 Per phone convs. w/ Jay Cape, dly. for app., Annual AF amt. = 41 USE(S) MD			

See Exhibit C, attached

See letter from applicant stating Form GWS-45 (12/95) this, also see case 95 CW 71 JRC

GENERAL PURPOSE APPLICATION - GENERAL INSTRUCTIONS

This form (GWS-45) should be used for the following well uses: commercial, industrial, agricultural irrigation, municipal, feed lots, central water supply systems, recreation, snowmaking, geothermal, recovery wells and any other uses not otherwise noted in the following list:

RESIDENTIAL use wells - Use Application Forms GWS-44, GWS-49 or GWS-50
LIVESTOCK watering on a farm, ranch, range, or pasture (not feedlots) - Use Forms GWS-44 or GWS-50
MONITORING/OBSERVATION wells - Use Application Form GWS-46
GRAVEL PITS - Use Application Form GWS-27
REGISTRATION of an existing well - Use Form GWS-12 (must have been in use prior to May 8, 1972)

FEES This application must be submitted with the required \$60 non-refundable filing fee.
Checks should be payable to COLORADO DIVISION OF WATER RESOURCES.

Applications are evaluated in chronological order. Please allow approximately six weeks for processing.

Applications must be completed clearly, and legibly, in BLACK INK or typed. ALL ITEMS in the application must be completed. Incomplete applications may be returned to the applicant for more information. Do not change or alter the application in any way.

THE LOCATION of the well in item 4 must be correctly and accurately described. The county, quarter/quarter, section, township and range location of the well, principal meridian and location of the well in feet from section lines must be provided.

NOTE: Distances are not necessarily the same distances as the distances from (your) property lines.

For additional assistance in describing the location of your well, review the publication entitled "How to Determine Well Locations" which was provided with your packet, or can be requested from any Colorado Division of Water Resources office.

Indicate in item 5 or provide as an attachment a complete LEGAL DESCRIPTION of the tract on which the well will be located. Indicate the total number of acres and the owner of that land.

Check the applicable box(es) in item 6 indicating the GENERAL USE of the well AND provide a detailed description of use of the well as an attachment to the application.

If the well is to withdraw water from the DAWSON, DENVER, ARAPAHOE, LARAMIE-FOX HILLS OR DAKOTA AQUIFERS, documentation of claimed landownership or consent of the landowner may be required. Please contact the Division of Water Resources for further information. A copy of the Statewide Nontributary Ground Water Rules are available upon request for \$3.

Indicate in item 8, or provide as an attachment a complete LEGAL DESCRIPTION of the land area on which water from the well will be used. Indicate the total number of acres described and the owner of that land. If agricultural irrigation is a proposed use, provide an accurate map of the land area with proposed irrigated areas drafted or accurately drawn. Section numbers and section lines must be indicated on the map.

Completely describe all OTHER WATER RIGHTS, including wells and surface water rights, used on the described land area. Describe the total land areas irrigated by other wells or water rights. Applicable well permit, well registration or water court case numbers must be indicated. This information may be provided in an attachment.

An ORIGINAL signature must be on each application. The applicant's authorized agent may sign the application if a letter signed by the applicant is submitted with the application authorizing them to act as agent for the purpose of obtaining a well permit.

IF YOU HAVE ANY QUESTIONS regarding any item in the well permit application form, please call the Division of Water Resources Ground Water Information Desk at (303) 866-3587, Ground Water Management District or the nearest Division of Water Resources Field Office located in Greeley (970-352-8712), Pueblo (719-542-3368), Alamosa (719-589-6683), Montrose (970-249-6622), Glenwood Springs (970-945-5665), Steamboat Springs (970-879-0272) or Durango (970-247-1845).

DETAILED INSTRUCTIONS ARE AVAILABLE UPON REQUEST

COLORADO DIVISION OF WATER RESOURCES, 1313 SHERMAN STREET, ROOM 821, DENVER CO 80203
PHONE: (303) 866-3587 (Information), (303) 866-3581 (Main), (303) 866-3447 (Well and Water Rights Records); (303) 866-3589 (Fax)

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ATTACHMENT TO WATER WELL PERMIT APPLICATION
Seneca Coal Company

APR 01 1996

WATER RESOURCES
STATE ENGINEER
010

6. USE OF WELL

Seneca Yoast Mine Shop Well will be used for domestic purposes including water used by employees for drinking, washing and sanitary uses, and for industrial purposes, including dust suppression, equipment washing and reclamation.

rec. 398500

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APR 01 1996

The following describes the proposed permit area for Yoast Mine. The permit area includes the mine permit area and the mine entrance haulage road.

WATER RESOURCES
STATE ENGINEER
010

Yoast Permit Area

<u>Parcel</u>	<u>Area (acres)</u>
<u>T6N, R87W</u>	

Section 28:

(Portions of) NW¼	33.6
(Portions of) NW¼SW¼	4.6

Section 29:

(Portions of) E½SE¼	17.3
(Portions of) SW¼SE¼	2.5

Section 32:

(Portions of) W½E½	24.2
--------------------	------

Subtotal:	82.2
-----------	------

T5N, R87W

Section 5:

(Portions of) W½E½	24.4
--------------------	------

Section 8:

(All of) NW¼	160.2
(All of) SW¼	160.1
(All of) W½NE¼	79.8
(All of) W½SE¼	80.4

Section 16:

(All of) SW¼NW¼	39.6
(All of) NW¼SW¼	39.4
(Portions of) SW¼SW¼	19.3
(Portions of) NW¼NW¼	19.1
(Portions of) SE¼NW¼	18.3
(Portions of) NE¼SW¼	37.3
(Portions of) NW¼SE¼	8.0

Section 17:

All	All	632.3
-----	-----	-------

Section 18:

(All of) NE¼SE¼	40.0
(All of) S½SE¼	80.8

see. 398500

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APR 01 1996

WATER RESOURCES
STATE ENGINEER
CC 2Area (acres)

Section 19:

(All of)	E½	320.4
(Portions of)	E½NW¼	53.2

Section 20:

(All of)	SW¼NW¼	39.7
(All of)	N¼NW¼	79.4
(All of)	W¼SW¼	79.8
(Portions of)	N¼NE¼	39.9

Section 29:

(All of)	NW¼NW¼	39.8
----------	--------	------

Section 30:

(All of)	N¼NE¼	79.9
----------	-------	------

Subtotal: 2171.1

TOTAL PERMITTED AREA: 2253.3 acres

All west of the 6th Principal Meridian.

Exhibit C to Water Well Permit Application

TABLE 16-1

Water Rights Listed on Exhibit 16-1 for Lands In and Adjacent to
the Yeast Mine - Division 6, Water District 57, Routt County, Colorado

Name of Structure	Type	Basin	Township	Range	Qtr	Qtr	Section	Use	Amount	Adjudication Date	Administration Number
Sage Creek Res. Outlet ⁴	O	Sage Creek	6N	88W	SE	SE	35	I	1.000c	09/22/1897	17337.00000
Sage Creek Res. Outlet ⁴	D	Sage Creek	6N	88W	SE	SE	35	I		07/22/1916	24306.21365
Sage Creek Reservoir ⁴	R	Sage Creek	5N	88W	NW	NW	13	I	804.0000a	07/22/1916	24306.21365
Leonard Yeast Well 1	W	Sage Creek	5N	87W	SE	SW	19	D	.0334c	12/31/1976	29432.00000
Valora Well	W	Sage Creek	5N	87W	SW	SW	19	DS	.0334c	12/31/1976	43157.00000
Eskridge Spring 1	S	Sage Creek	5N	88W	NE	SE	13	PD	.0200c	12/31/1972	44559.44110
Cold Spring 1	S	Sage Creek	5N	88W	SE	NE	14	DSI	.2500c	12/31/1975	45655.28599
Cold Spring 2	S	Sage Creek	5N	88W	SE	NE	14	DSI	.2500c	12/31/1975	45655.28599
Leonard Yeast Well 2	W	Sage Creek	5N	87W	SE	SW	18	ISD	.0670c	12/31/1976	46020.45107
Yeast Spring 1 ⁴	S	Sage Creek	5N	87W	NE	NW	19	IS	.0100c	12/31/1976	46211.00000
Yeast Spring 2 ⁴	S	Sage Creek	5N	87W	NW	NE	19	D	.0100c	12/31/1976	46020.45137
Yeast Spring 3 ⁴	S	Sage Creek	5N	87W	NW	NE	19	I	.0100c	12/31/1976	46020.45137
Yeast Spring 4 ⁴	S	Sage Creek	5N	87W	NW	SW	20	IS	.0100c	12/31/1976	46020.45137
Yeast Spring 5 ⁴	S	Sage Creek	5N	87W	NW	SW	20	IS	.0100c	12/31/1976	46020.45137
Yeast Spring 6	S	Sage Creek	5N	87W	SW	NE	30	IS	.0100c	12/31/1976	46020.45137
Yeast Spring 8	S	Sage Creek	5N	88W	SE	SE	13	IS	.0100c	12/31/1976	46020.45137
Yeast Spring 9	S	Sage Creek	5N	88W	NE	SW	13	IS	.0100c	12/31/1976	46020.45137
Caster Spring	S	Sage Creek	5N	87W	NW	SW	18	ISD	.0330c	12/31/1981	47857.00000
Peabody Pond Y-1 ⁴	R	Sage Creek	5N	87W	NE	NW	19	N	3.3500a	13/31/1989	50866.00000
Rowley Well	W	Sage Creek	6N	87W	NW	NW	31	D	.1110c	12/31/1972	44559.33907
Shiloh Spring	S	Sage Creek	5N	88W	SE	SW	13	D	.0100c	12/31/1989	50769.50250
Shiloh Two Spring	S	Sage Creek	5N	88W	NW	NW	24	D	.0600c	12/31/1989	50769.50250
Steer Gulch Spring	S	Sage Creek	5N	88W	NW	SW	12	S	.0330c	12/31/1989	50769.44111
Annard Artesian Well ⁴	W	Scotchmans Gulch	5N	87W	NE	SW	8	D	.0330c	12/31/1975	46020.45137

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Only well on tract

TABLE 16-1

(Continued)

Name of Structure	Type ¹	Basin	Township	Range	Qtr	Qtr	Section	Use ²	Amount ³	Date	Adjudication	Administration
Hofstger Zeigler Reservoir	R	Scotchmans Gulch	5N	87W	NW	NW	9	1	344.0000a	07/24/1939		30408.21270
Hofstger Reservoir	R	Scotchmans Gulch	5N	87W	SE	SE	4	1	456.0000a	07/24/1939		30408.21331
Ammand Spring 1	S	Scotchmans Gulch	5N	87W	NE	SW	8	1S	.0220c	12/31/1975		45655.29376
Ammand Spring 2	S	Scotchmans Gulch	5N	87W	NE	SW	8	1S	.0220c	12/31/1975		45655.31291
Ammand Spring 3	S	Scotchmans Gulch	5N	87W	SE	SW	8	1S	.0220c	12/31/1975		45655.31291
Ammand Ditch 1	D	Scotchmans Gulch	5N	87W	SE	NW	8	1S	1.0000c	12/31/1975		45655.34869
Ammand Ditch 2	D	Scotchmans Gulch	5N	87W	SW	NE	8	1S	1.0000c	12/31/1975		45655.34869
Rhodes Well	W	Grassy Creek	6N	87W	SW	SE	28	1DS	.0330c	12/31/1981		29768.00000
Cozzens Well 2	W	Grassy Creek	6N	87W	NW	NE	28	DS	.0330c	12/31/1972		33038.00000
Cozzens Well 1	W	Grassy Creek	6N	87W	NW	NE	28	DS	.0330c	12/31/1972		41807.00000
Seneca Mine Pump and Ppln.	L	Grassy Creek	6N	87W	SE	SW	27	W	1.1100c	12/31/1976		46020.43353
Seneca Coal Well	W	Grassy Creek	6N	87W	SW	SE	27	ND	.0890c	12/31/1976		46020.44103
Seneca Coal Mine Div.	D	Grassy Creek	6N	87W	SW	SE	27	NS	1.1000c	12/31/1977		46386.45661
E. of Mine Shop Imp.	R	Grassy Creek	6N	87W	SW	SE	27	W	9.7000a	12/31/1977		46386.45661
NPDES Impoundment	R	Grassy Creek	6N	87W	SE	NE	34	1DO	1.3000a	12/31/1977		46386.46112
Grassy Creek Impoundment	R	Grassy Creek	6N	87W	SE	SW	27	NS	4.4000a	12/31/1977		46386.46112
Wadge Pit	P	Grassy Creek	6N	87W	SE	SE	34	W	1.1000c	12/31/1977		46386.46326
Seneca Coal Mine Shop Ditch	D	Grassy Creek	6N	87W	NE	SE	34	NS	0.5000c	12/31/1977		46386.46326
Wadge Pit Reservoir	R	Grassy Creek	6N	87W	SE	NE	34	ND	220.0000a	12/31/1977		46386.46356
Seneca Coal Well	W	Grassy Creek	6N	87W	SW	SE	27	DM	.0890c	12/31/1977		46506.00000
Grassy Creek Impoundment	R	Grassy Creek	6N	87W	SE	SW	27	S	1.6000a	12/31/1977		46566.00000
Wadge Pit Reservoir	R	Grassy Creek	6N	87W	SE	NE	34	NS	50.0000a	12/31/1977		47296.00000

¹ Type: D = Ditch; P = Pond; R = Reservoir; S = Spring; W = Well; L = Pipeline² Use: D = Domestic; I = Irrigation; S = Stock; W = Industrial; O = Other; P = Fishery³ Amount: a = acre-feet; c = cubic feet per second⁴ Water Rights Owned by Seneca Coal Company

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 APR 21 1996
 WATER RESOURCES
 STATE ENGINEER

ADD 01 1996

Frascona, Joiner and Goodman, P.C.

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Gary S. Joiner
Jonathan A. Goodman

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A Professional Corporation

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David L. Cleveland

WATER RESOURCES
STATE ENGINEER
Joyce M. Bergman
Gregg A. Greenstein
Richard L. Levy
Louise Culberson-Smith
G. Roger Book
Richard Byron Peddie

March 29, 1996

Colorado Division of Water Resources
Department of Natural Resources
1313 Sherman Street, Room 818
Denver, CO 80203

Re: Seneca Yoast Mine Shop Well
Our Client No. 10021.003

Dear Sir/Madam:

Enclosed is a Water Well Permit Application with regard to the referenced well, along with a check in the amount of \$60.00 for the filing fee. Please direct any correspondence with regard to the application to me at the address above.

Sincerely yours,
Frascona, Joiner and Goodman, P.C.

By: Joseph Adams Cope

JAC:klm
Enclosure

cc: Dennis Jones (w/enc)
Referee Daniel R. Birch (w/o enc)
Charles N. Woodruff (w/o enc)

DEPARTMENT OF NATURAL RESOURCES
1513 SHERMAN ST., RM. 818, DENVER CO 80203
phone - info: (303) 866-3587 main: (303) 866-3581

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GENERAL PURPOSE

(Please note: other forms are available for specific uses including - residential, commercial, monitoring/observ., gravel pits, registration of old wells)
Review instructions prior to completing form

WATER RESOURCES

Water Well Permit Application

Must be completed in black ink or typed

1. APPLICANT INFORMATION		6. USE OF WELL (please attach detailed description)	
Name of applicant Seneca Coal Company		<input checked="" type="checkbox"/> INDUSTRIAL <input type="checkbox"/> OTHER: <input type="checkbox"/> COMMERCIAL <input type="checkbox"/> MUNICIPAL detailed description of use is attached as Exhibit B <input type="checkbox"/> IRRIGATION <input type="checkbox"/> FEED LOT - number of head:	
Mailing Address Post Office Drawer D		7. WELL DATA	
City Hayden	State CO	Zip Code 81639	Maximum pumping rate 35 gpm Total depth est. 1220 feet Aquifer Tribut Creek Sandstone Formation
Telephone number (include area code) (970) 276-3707		8. LAND ON WHICH GROUND WATER WILL BE USED	
2. TYPE OF APPLICATION (check applicable box(es))		A. LEGAL DESCRIPTION (may be provided as an attachment):	
<input checked="" type="checkbox"/> Construct new well <input type="checkbox"/> Use existing well <input type="checkbox"/> Replace existing well <input type="checkbox"/> Change or increase use <input type="checkbox"/> Change (source) Aquifer <input type="checkbox"/> Reapplication (expired permit) <input type="checkbox"/> Other:		legal description attached as Exhibit A (If used for crop irrigation, attach scaled map that shows irrigated area.)	
3. REFER TO (if applicable):		B. Acres	
Water right name # 95 CW 73	Permit #	2253.3	
Emergency Verbal # -VE-		C. Owner/lessee Seneca Coal Company	
Monitoring hole acknowledgment # MH-		D. List any other wells or water rights used on this land: See Exhibit C, attached.	
Well name or # Seneca Yeast Mine Shop Well		9. PROPOSED WELL DRILLER (optional)	
4. LOCATION OF WELL		Name License number	
County Route	Quarter/quarter NW ¼	NE ¼	
Section 8	Township N or S 5	Range 87	Meridian 6th
Distance of well from section lines 620 ft from N ¼ S 2220 ft from E ¼ W			
Well location address, if different from applicant address (if applicable)			
For replacement wells only - distance and direction from old well to new well feet direction			
5. TRACT ON WHICH WELL WILL BE LOCATED			
A. LEGAL DESCRIPTION (may be provided as an attachment): legal description attached as Exhibit A			
B. STATE PARCEL ID# (optional):			
C. # acres in tract 2253.3		D. Owner/lessee Seneca Coal Company	
E. Will this be the only well on this tract? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (If other wells are on this tract, see detailed inst.) See Exhibit C, attached			
10. SIGNATURE of applicant(s) or authorized agent		DATE	
The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-104(13)(a). I have read the statements herein, know the contents thereof, and state that they are true to my knowledge.		3/28/96	
Signature Dennis Jones, Hydrologist		Date	
OPTIONAL INFORMATION			
USGS map name		GNR map no.	
Office Use Only		Division	
DIV		CO	
WD		SA	
MD		USE(S)	

Omitted in item (7) 5-7-96

Form GWS-45 (12/95)

DEPARTMENT OF
1313 Best Copy Available
phon

RESOURCES
DENVER CO 80203
main: (303)866-3581

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GENERAL PURPOSE

(Please note: other forms are available for specific uses including - residential water supply, monitoring/observ., gravel pits, restoration of old wells)
Review instructions prior to completing form

WATER RESOURCES
STATE OF COLORADO
GOLD

Water Well Permit Application

Must be completed in black ink or typed

1. APPLICANT INFORMATION				6. USE OF WELL (please attach detailed description)			
Name of applicant Seneca Coal Company				<input checked="" type="checkbox"/> INDUSTRIAL <input type="checkbox"/> OTHER: <input type="checkbox"/> COMMERCIAL <input type="checkbox"/> MUNICIPAL detailed description of use is attached as Exhibit B <input type="checkbox"/> IRRIGATION <input type="checkbox"/> FEED LOT - number of head:			
Mailing Address Post Office Drawer D				7. WELL DATA			
City Hayden		State CO		Zip Code 81639		Maximum pumping rate 35 gpm 47 acre-feet Total depth est. 1220 feet Acifer Trout Crank Sandstone Formation	
Telephone number (include area code) (970) 276-3707				8. LAND ON WHICH GROUND WATER WILL BE USED			
2. TYPE OF APPLICATION (check applicable box(es))				A. LEGAL DESCRIPTION (may be provided as an attachment):			
<input checked="" type="checkbox"/> Construct new well <input type="checkbox"/> Use existing well <input type="checkbox"/> Replace existing well <input type="checkbox"/> Change or increase Use <input type="checkbox"/> Change (source) Aquifer <input type="checkbox"/> Reapplication (expired permit) <input type="checkbox"/> Other:				legal description attached as Exhibit A (If used for crop irrigation, attach scaled map that shows irrigated area.)			
3. REFER TO (if applicable):				B. OWNER/LESSEE			
Water right name # 95 CW 73		Permit #		2253.3		Seneca Coal Company	
Emergency Varietal # -VE-		Marking hole acknowledgment # MH-		D. List any other wells or water rights used on this land: See Exhibit C, attached.			
Well name or # Seneca Yeast Mine Shop Well				9. PROPOSED WELL DRILLER (optional)			
4. LOCATION OF WELL				Name _____ Utility number _____			
County Route		Quarter/quarter NW ¼		Quarter NE ¼		10. SIGNATURE of applicant(s) or authorized agent	
Section 8	Township N or S 9	Range 87	E or W W	Principal Meridian 6th		The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104(13)(a). I have read the statements herein, know the contents thereof, and state that they are true to my knowledge.	
Distance of well from section lines 620 ft from <input checked="" type="checkbox"/> N <input type="checkbox"/> S 2220 ft from <input type="checkbox"/> E <input type="checkbox"/> W				Must be original signature Dennis Jones Title Dennis Jones, Hydrologist			
Well location label: If different from applicant address or representative				Date 3/28/96			
For replacement wells only - distance and direction from old well to new well feet _____ direction _____				OPTIONAL INFORMATION			
5. TRACT ON WHICH WELL WILL BE LOCATED				USGS map name _____ DWR map no. _____ Surface elev. _____			
A. LEGAL DESCRIPTION (may be provided as an attachment):				Office Use Only			
legal description attached as Exhibit A B. STATE FINDER (If applicable)				DIV _____ CO _____ WD _____ BA _____ MD _____			
C. # acres in tract 2253.3				D. Owner/lessee Seneca Coal Company			
E. Will this be the only well on this tract? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (if other wells are on this tract, see detailed inst.)				USE(5)			
See Exhibit C, attached				omitted in item (7)			

for correction

COPY For
Correction additional
information previously
omitted in
item (7)

Form GWS-45 (12/95)

5-7-96

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Use for specific uses including - residential, agricultural, monitoring/observ., travel site, registration of old wells
Must be completed in black ink or typed

WATER RESOURCES
STATE ENGINEERING
BUREAU

Water Well Permit Application

Must be completed in black ink or typed

1. APPLICANT INFORMATION		6. USE OF WELL (please attach detailed description)	
Name of applicant Seneca Coal Company		<input checked="" type="checkbox"/> INDUSTRIAL <input type="checkbox"/> OTHER: <input type="checkbox"/> COMMERCIAL <input type="checkbox"/> MUNICIPAL <input type="checkbox"/> IRRIGATION <input type="checkbox"/> FEED LOT - number of head: detailed description of use is attached as Exhibit B	
Mailing Address Post Office Drawer D			
City Hayden	State CO	Zip Code 81639	
Telephone number (include area code) (970) 276-3707			
2. TYPE OF APPLICATION (check applicable box(es))		7. WELL DATA	
<input checked="" type="checkbox"/> Construct new well <input type="checkbox"/> Use existing well <input type="checkbox"/> Replace existing well <input type="checkbox"/> Change or increase Use <input type="checkbox"/> Change (source) Aquifer <input type="checkbox"/> Reapplication (expired permit) <input type="checkbox"/> Other:		Maximum pumping rate 35 gpm Total depth est. 1220 feet Aquifer Trout Creek Sandstone Formation	
3. REFER TO (if applicable):		8. LAND ON WHICH GROUND WATER WILL BE USED	
Water court case # 95 CW 73	Permit #	A. LEGAL DESCRIPTION (may be provided as an attachment) legal description attached as Exhibit A (If used for crop irrigation, attach scaled map that shows irrigated area.)	
Emergency Verbal # -VE-	Monitoring hole acknowledgment # MH-	B. # acres 2253.3	
Well name or # Seneca Toast Mine Shop Well		C. Owner/lessee Seneca Coal Company	
4. LOCATION OF WELL		D. List any other wells or water rights used on this land: See Exhibit C, attached.	
County Route	Quarter/quarter NW % NE %	9. PROPOSED WELL DRILLER (optional)	
Section 8	Township N or S S	Range 87	Principal Meridian 6th
Distance of well from section lines 620 ft from N S 2220 ft from E W		Name License number	
Well location address, if different from applicant address (if applicable)		10. SIGNATURE of applicant(s) or authorized agent	
For replacement wells only - distance and direction from last used to new well		The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104(13)(a). I have read the statements herein, know the contents thereof, and state that they are true to my knowledge.	
5. TRACT ON WHICH WELL WILL BE LOCATED		Make original signature Dennis Jones	
A. LEGAL DESCRIPTION (may be provided as an attachment): legal description attached as Exhibit A		The Dennis Jones, Hydrologist	
B. STATE PARCEL KIS (optional):		Date 3/28/96	
C. # acres in tract 2253.3		OPTIONAL INFORMATION	
D. Owner/lessee Seneca Coal Company		USGS map name DNR map no. Surface elev.	
E. Will this be the only well on this tract? <input type="checkbox"/> YES <input type="checkbox"/> NO (If other wells are on this tract, see detailed inst.) See Exhibit C, attached		Office Use Only DIV CO WD BA MD	

omitted in item (7)

Form GWS-45 (12/95)

SENECA COAL COMPANY
38600 ROUTT COUNTY ROAD 27
P.O. DRAWER D
HAYDEN, CO 81639

TELEPHONE: (970) 276-3707
FAX: (970) 276-3014

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WATER RESOURCES
STATE ENGINEER
COLO.

FAX COVER SHEET

DATE 5/7/96 TIME _____TO Tamara PHONE _____Division of
Water Resources

FAX _____

FROM Dennis JonesRE Seneca East-Mine Ship Well, Receipt #398500

CC _____

Number of pages including cover sheet 2

MESSAGE

Attachment is the requested revised
item 7 of the above referenced
permit application. Call me if you
have any questions

Best Copy Available

SENECA COAL COMPANY

36600 ROUTT COUNTY ROAD 27

P.O. DRAWER D

HAYDEN, CO 81639

TELEPHONE: (970) 276-3707

FAX: (970) 276-3014

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MAY 07 1996

WATER RESOURCES
STATE ENGINEER
COLO.

FAX COVER SHEET

DATE

5/7/96

TIME

TO

Tamera

PHONE

Division of
Water Resources

FAX

FROM

Dennis Jones

RE

Seneca Yeast-Mine Ship Well, Receipt #398500

CC

Number of pages including cover sheet

2

MESSAGE

Attachment is the requested revised
item 7 of the above referenced
permit application. Call me if you
have any questions.

OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

436

APPLICANT

WELL PERMIT NUMBER 039390 M
DIV. 6 CNTY. 54 WD 57 DES. BASIN MD

PEABODY COAL COMPANY
1300 S YALE
FLAGSTAFF, AZ 86001

APPROVED WELL LOCATION

COUNTY ROUTT
SE 1/4 SW 1/4 Section 8
Twp 5 N, Range 87 W S P.M.

DISTANCES FROM SECTION LINES

985 Ft. from South Section Line
1590 Ft. from West Section Line

PERMIT TO CONSTRUCT MONITORING WELL YAAL14 (MH-16470)

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) Approved pursuant to CRS 37-90-137(2) to satisfy the permit requirements of CRS 37-90-138(3). Use of this well is limited to monitoring water levels and/or water quality sampling.
- 3) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept locked at all times except during sampling or measuring.
- 4) Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Division of Water Resources upon request.
- 5) Upon conclusion of the monitoring program the well owner shall plug and abandon this well in accordance with the Water Well Construction and Pump Installation Rules.
- 6) The owner shall mark the well in a conspicuous place with well permit number and name of aquifer as appropriate. He shall take necessary means and precautions to preserve these markings.
- 7) This well must be constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction and Pump Installation Rules.
- 8) A well completion report including lithologic log must be submitted by the individual authorized to construct the well. For non-standard construction the report must include an as built drawing showing details; such as depth, casing, perforated zones, and a description of the grouting type and interval.
- 9) This well shall be constructed not more than 200 feet from the location specified on this permit.

APPROVED:
FNL

John A. Danielson
State Engineer

Fred M. Lov
By

Receipt No. 0326612P

DATE ISSUED JUL 24 1991

EXPIRATION DATE JUL 24 1992

FORM NO.
GWS-11
07/93

STATE OF COLORADO
OFFICE OF THE STATE ENGINEER
818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 868-3581

For Office Use only

PRIOR TO COMPLETING FORM, SEE INSTRUCTIONS ON REVERSE SIDE

CHANGE IN OWNERSHIP/ADDRESS / LOCATION

WELL PERMIT, LIVESTOCK TANK OR EROSION CONTROL DAM

1. NEW OWNER

NAME(S) Seneca Coal Company
Mailing Address PO Drawer D, 36600 Routt County Rd. 27
City, St. Zip Hayden, CO 81639
Phone (970) 276-3707

2. THIS CHANGE IS FOR ONE OF THE FOLLOWING:

☒ WELL PERMIT NUMBER 039390-M
☐ LIVESTOCK WATER TANK NUMBER _____
☐ EROSION CONTROL DAM NUMBER _____

3. WELL LOCATION: COUNTY ROUTT OWNER'S WELL DESIGNATION YAAL14

(Address) (City) (State) (Zip)
SE 1/4 of the SW 1/4, Sec. 8 Twp. 5 ☒ N. or ☐ S., Range 87 ☐ E. or ☒ W. 6 P.M.
Distances from Section Lines _____ Ft. from ☐ N. or ☐ S. Line, _____ Ft. from ☐ E. or ☐ W. Line.
Subdivision _____ Lot _____ Block _____ Filing (Unit) _____

4. LIVESTOCK TANK OR EROSION CONTROL DAM LOCATION: COUNTY _____

1/4, Sec. Twp. ☐ N. or ☐ S., Range _____ ☐ E. or ☐ W. _____ P.M.

5. The above listed owner(s) say(s) that he (they) own the structure described herein.

The existing record is being amended for the following reason(s):

☒ Change in name of owner. ☒ Change in mailing address. ☐ Correction of location.

6. I (we) have read the statements made herein, know the contents thereof, and state that they are true to my (our) knowledge.
[Pursuant to Section 24-4-104 (13)(a) C.R.S., the making of false statements herein constitutes perjury in the second degree and is punishable as a class 1 misdemeanor.]

Name/Title (Please type or print)
H. Theodore Smith
Senior Hydrologist

Signature

H. Theodore Smith

Date

5/8/95

FOR OFFICE USE ONLY

ACCEPTED AS A CHANGE IN OWNERSHIP
AND/OR MAILING ADDRESS.

Hal D. Simpson

State Engineer

Sandy Johnson

By

Date

AUG 09 1995

Court Case No. _____ Div. 6 Co. 54 WD. 57 Basin _____ MD _____ Use _____

INSTRUCTIONS CHANGE OWNERSHIP-ADDRESS LOCATION CORRECTION FORM JULY 1993**NO FEE IS REQUIRED**

The form must be typewritten or printed in **BLACK INK**. Initial and date any changes you make on the form.

**THIS FORM MAY BE REPRODUCED BY PHOTOCOPYING OR WORD PROCESSING MEANS.
INCOMPLETE FORMS WILL BE RETURNED. ATTACH ADDITIONAL SHEETS IF MORE SPACE IS NEEDED.**

1. Print the **new owner's** name and include the mailing address and phone number.
2. Indicate if the change in ownership/address is for a well permit, livestock water tank or erosion control dam. Be sure to include the proper permit, tank or dam number.
3. Complete the well location information. If the address of the well location is different than the mailing address of the owner, include the address where the well is located. If the owner has more than one well, provide well name or number as designated by the owner; i.e. North Well. The actual **well location** must include ¼, ¼, Section, Township and Range. Check the appropriate boxes for North or South and East or West directions. Complete the Subdivision, Lot, Block and Filing information, if applicable.
4. Complete the location information for the livestock water tank or erosion control dam. The actual location must include ¼, Section, Township, Range and P.M. Check the appropriate boxes for North or South and East or West directions.
5. Check the reason(s) for submitting the form, whether it is a change in ownership/address and/or location correction.
6. The owner of the structure must sign. Print or type your name in the first block if it is different from Item No. 1. If **signing as a representative of a company** who owns the structure, then your title must also be included in the first block. Sign the second block and date the last block.

USE THIS FORM TO CORRECT THE LOCATION OF YOUR WELL IF:

- A. Your well was permitted, registered, or first used prior to May 8, 1972 for ordinary household purposes in up to three single-family dwellings, fire protection, the watering of poultry, domestic animals, and livestock on farms and ranches and the irrigation of not over one acre of home gardens and lawns.
- B. Your well is not of the type described in A above, but was permitted or registered prior to May 17, 1965. Inside the Designated Ground Water Basins, other procedures and publication may be required.
- C. Your well was decreed by the Water Court for the correct location.

IN ALL OTHER CASES USE FORM GWS-42

All other types of changes concerning Livestock Water Tanks and Erosion Control Dams should be submitted on the standard Permit Application form and be accompanied by a \$15.00 filing fee.

If you have questions, contact the Denver or the Division Office where your well is located.

DIVISION 1
800 8th Ave Rm 321
Greeley CO 80631
(303) 352-8712

DIVISION 2 Box 5728
219 W 5th Rm 223
Pueblo CO 81003
(719) 542-3368

DIVISION 3 Box 269
422 4th St
Alamosa CO 81101
(719) 589-6683

DIVISION 4 Box 456
1540 E Niagara
Montrose CO 81402
(303) 249-6622

DIVISION 5 Box 396
50633 US Hwy 6 & 24
Glenwood Spgs CO 81601
(303) 945-5665

DIVISION 6 Box 773450
625 So. Lincoln Ave
Steamboat Spgs CO 80477
(303) 879-0272

DIVISION 7 Box 1880
1474 Main St
Durango CO 81302
(303) 247-1845

DENVER OFFICE
Rm 821
1313 Sherman St
Denver CO 80203
(303) 866-3581

FOR INSTRUCTIONS, SEE REVERSE SIDE

STATEMENT OF BENEFICIAL USE

WELL PERMIT NUMBER 039390-M

RECEIVED

JUN 12 '92

WATER RESOURCES
STATE ENGINEER
CDD

1. WELL OWNER

NAME(S) Peabody Coal Company

Mailing Address 1300 South Yale

City, St. Zip Flagstaff, Arizona 86001

Phone (602) 774-5253

2. WELL LOCATION: COUNTY Routt OWNER'S WELL DESIGNATION YAAL14

Same as above

(Address)

(City)

(State)

(Zip)

SE 1/4 of the SW 1/4, Sec. 8 Twp. 5 ☒ N. or ☐ S., Range 87 ☐ E. or ☒ W. 6 P.M.Distances from Section Lines 985 Ft. from ☐ N. or ☒ S. Line, 1590 Ft. from ☐ E. or ☒ W. Line.

3. The well is being used for the following purpose(s): To monitor for mining impacts to ground water levels and quality.

4. Water from the well was first used beneficially for the above purpose(s) on September 5 19 90

5. The pumping rate claimed is < 2 gallons per minute.

6. The average annual amount of water diverted is N/A acre feet.

7. The land area irrigated (watered) by water from this well is: N/A Acres or Square feet,
(Number)

described as:

(Legal Description)

or as Subdivision Lot(s) Block Filing/Unit

8. Well drilled by: Boyles Brothers Drilling Company Lic. No: 436

Pump installed by: N/A Lic. No:

9. Meter Mfg. by N/A Serial No.: Date installed:

I (we) have read the statements made herein, know the contents thereof, and state that they are true to my (our) knowledge. [Pursuant to Section 24-4-104 (13)(a) C.R.S., the making of false statements herein constitutes perjury in the second degree and is punishable as a Class 1 misdemeanor.]

10. Name/Title (Please type or print)

H. Theodore Smith
Senior Hydrologist

Signature

H. Theodore Smith

Date

6/10/92

FOR OFFICE USE ONLY

Pursuant to HB 92-1008, effective March 19, 1992,
monitoring and observation well use is an exempt use
pursuant to Section 37-92-602(1)(f). This permit
shall remain valid provided that the well is
constructed prior to the expiration date. A
statement of beneficial use is not required.

State Engineer

Court Case No.

Div.

By

Co.

WD

Basin

MD

Date

Use

INSTRUCTIONS FOR THE COMPLETION OF STATEMENT OF BENEFICIAL USE

IMPORTANT INFORMATION: IF THE PERMIT WAS APPROVED PURSUANT TO C.R.S. 37-90-137(2) OR 37-90-105, THEN THE STATEMENT OF BENEFICIAL USE MUST BE RECEIVED BY THE STATE ENGINEER PRIOR TO THE EXPIRATION OF THE PERMIT. IF THE PERMIT WAS APPROVED PURSUANT TO C.R.S. 37-90-107, THE STATEMENT OF BENEFICIAL USE MUST BE RECEIVED WITHIN THREE YEARS FROM THE DATE THE PERMIT WAS ISSUED.

NOTE: IF THE PERMIT WAS APPROVED PURSUANT TO C.R.S. 37-90-137(4), THEN YOU MUST USE FORM NO. GWS-18 "NOTICE OF WELL COMPLETION" AND FORM NO. GWS-19 "NOTICE OF COMMENCEMENT OF BENEFICIAL USE".

The Statement must be typewritten or printed in BLACK INK. Initial and date any changes you make on the form. INCOMPLETE FORMS ARE NOT ACCEPTABLE AND WILL BE RETURNED. ATTACH ADDITIONAL SHEETS IF MORE SPACE IS NEEDED.

NO FEE IS REQUIRED IF THE STATEMENT IS SUBMITTED TIMELY. IF NOT SUBMITTED TIMELY, A FEE MAY BE REQUIRED.

The Well Permit Number must be indicated in the space provided at the top of the form.

Item Number

1. Print the well owner's name and include the mailing address and phone number.
2. If the well location is different than the mailing address of the owner, include the address where the well is located. If the owner has more than one well, provide well name or number as designated by the owner: i.e. North Well. The actual well location must include 1/4, 1/4, Range, Township, Section and distances from Section lines. Mark the appropriate boxes for North or South and East or West directions.
3. Describe the use(s) to which the water has actually been applied. Permitted uses are described in the conditions of approval of the permit.
4. Enter the date of first beneficial use. This is the date water from the well was first used beneficially for the purposes described in item 3 under the permit number indicated. The date claimed cannot predate the issuance of the permit. It is not the date the form is completed, nor is it the date the well was test pumped.
5. Enter the pumping rate claimed. The rate cannot exceed the permitted maximum rate or the actual pumping rate in gallons per minute, whichever is less: 449 gallons per minute is equivalent to one cubic foot of water per second.
6. Enter the annual amount of water diverted in acre feet. The amount claimed cannot exceed the physical capacity of the well or the permitted amount as limited by any conditions of approval. One acre foot is equivalent to 325,900 gallons. An ordinary home with lawn and garden irrigation diverts an average of less than one acre foot. Average in house use which does not include lawn and garden irrigation (watering) diverts 1/3 acre foot.
7. Report the area irrigated either as acres or square feet by filling in the correct number and checking the appropriate box. You must describe the specific area irrigated using either the legal description of that land or by referencing the Subdivision, Lot, Block and Filing or Unit number. Lawn and garden watering is considered irrigation. If the well is not used for irrigation, place a zero in the acres/square feet irrigated blank. One acre is equivalent to 43,560 square feet. One acre foot is equivalent to 43,560 cubic feet of water.
8. Indicate the Well Construction and Pump Installation Contractors and their License Numbers. If you did the work yourself, so indicate. You must submit work reports if you constructed the well and/or installed the pump.
9. If a totalizing flow meter is required as a condition of the permit, indicate the meter manufacturer name, it's serial number and the date of installation.
10. The well owner must sign the Statement. Print or type your name in the first block if it is different from Item No. 1. If signing as a representative of a company who owns the well, then your title must also be included in the first block. Sign the second block and date the last block.

If you have questions, contact the Denver Office or the Division Office where your well is located.

DIVISION 1
209 ARIX BUILDING
800 8TH AVE.
GREELEY, CO 80631
(303) 352-8712

DIVISION 2
219 W. 5TH RM. 223
PUEBLO, CO. 81003
(719) 542-3365

DIVISION 3
422 4TH ST.
ALAMOSA, CO 81101
(719) 589-6683

DIVISION 4
308 S. FIRST ST.
MONTROSE, CO. 81402
(303) 249-6622

DIVISION 5
1429 GRAND AVENUE
GLNWD SPGS. CO. 81601
(303) 945-5665

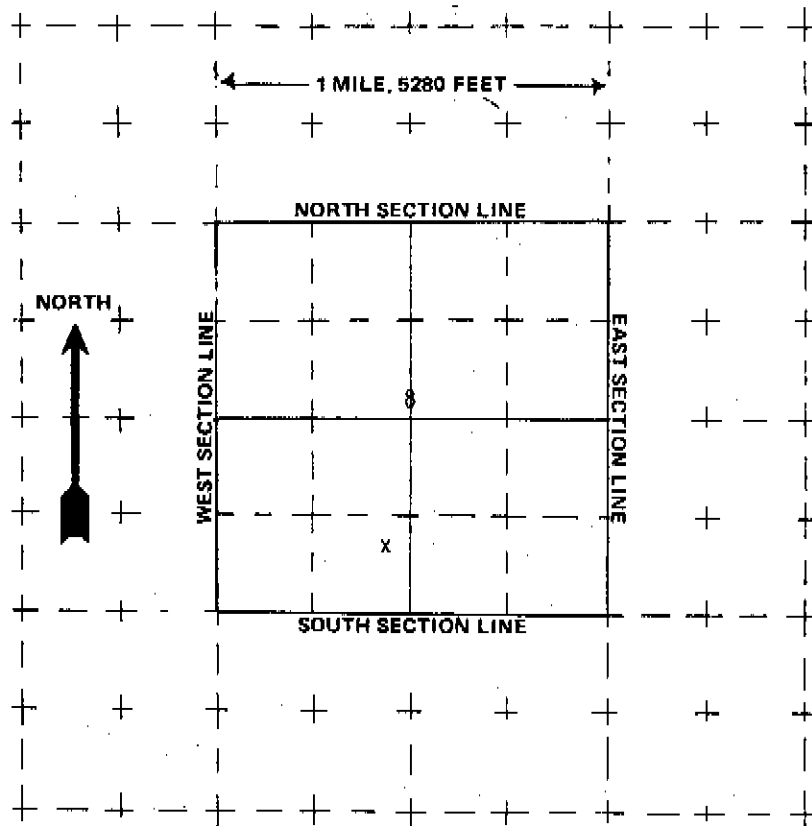
DIVISION 6
320 LINCOLN AVE. STE. E
STMBT SPGS., CO. 80477
(303) 879-0272

DIVISION 7
1474 MAIN ST.
DURANGO, CO. 81302
(303) 247-1845

DENVER OFFICE
RM. 823
1313 SHERMAN ST.
DENVER, CO. 80203
(303) 866-3581

I.D. 6 COUNTY 59 51

(5) **THE LOCATION OF THE PROPOSED WELL** and the area on which the water will be used must be indicated on the diagram below. Use the **CENTER SECTION** (1 section, 640 acres) for the well location.



The scale of the diagram is 2 inches = 1 mile
Each small square represents 40 acres.

WATER EQUIVALENTS TABLE (Rounded Figures)

An acre-foot covers 1 acre of land 1 foot deep
1 cubic foot per second (cfs) . . . 449 gallons per minute (gpm)
A family of 5 will require approximately 1 acre-foot of water per year.
1 acre-foot . . . 43,560 cubic feet . . . 325,900 gallons.
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.

(6) **THE WELL MUST BE LOCATED BELOW** by distances from section lines.

985 ft. from S sec. line
(north or south)

1590 ft. from W sec. line
(east or west)

LOT BLOCK FILING #

SUBDIVISION

(7) **TRACT ON WHICH WELL WILL BE LOCATED** Owner: N/A

No. of acres Will this be
the only well on this tract? Yes

(8) **PROPOSED CASING PROGRAM**

Plain Casing

4 in. from 0 ft. to 12.3 ft.

in. from ft. to ft.

Perforated casing

4 in. from 12.3 ft. to 22 ft.

in. from ft. to ft.

(9) **FOR REPLACEMENT WELLS** give distance and direction from old well and plans for plugging it:

N/A

(10) **LAND ON WHICH GROUND WATER WILL BE USED:**

Owner(s): N/A No. of acres:

Legal description:

(11) **DETAILED DESCRIPTION** of the use of ground water: Household use and domestic wells must indicate type of disposal system to be used.

Used for monitoring mining impacts to ground water levels and quality.

(12) **OTHER WATER RIGHTS** used on this land, including wells. Give Registration and Water Court Case Numbers.

Type or right
N/A

Used for (purpose)

Description of land on which used

(13) **THE APPLICANT(S) STATE(S) THAT THE INFORMATION SET FORTH HEREON IS TRUE TO THE BEST OF HIS KNOWLEDGE.**

H. Theodore Smith
SIGNATURE OF APPLICANT(S)

Senior Hydrologist

ROY ROMER
Governor



JERIS A. DANIELSON
State Engineer

OFFICE OF THE STATE ENGINEER
DIVISION OF WATER RESOURCES

1313 Sherman Street-Room 818
Denver, Colorado 80203
(303) 866-3581

June 27, 1990

Mr. Ted Smith
Peabody Coal Company
1300 South Yale
Flagstaff, AZ 86001

Lic. No. _____
I.D. 6 57 County 54
Basin _____ M.D. _____

RE: Monitoring and Observation Hole

File No. MH- 16470
Owner: Peabody Coal Company

SE1/4 SW1/4
Township 5N

Section 8
Range 87W

Dear Mr. Smith:

Thank you for your letter of June 20, 1990, notifying this office of your intent to construct the subject monitoring and observation hole. The construction of the hole must be completed within 3 months of the date of this acknowledgment. Testing and/or pumping shall not exceed a total of seven (7) days unless prior written approval is obtained from the State Engineer. The water diverted during testing shall not be used for beneficial purposes. The well owner or his agent shall be responsible for obtaining permits and complying with all rules and regulations pertaining to the discharge of all fluids produced during testing. The hole must be plugged within one (1) year after construction unless a well permit has been obtained from the State Engineer.

A copy of this acknowledgment should accompany the drilling rig. Copies of all logs and test data must be submitted to this office within sixty (60) days of the completion of the work. Please refer to the above file number and owner to identify the documents when submitted. Upon completion of plugging, an affidavit (form GWS-6) should be submitted affirming the date the hole was plugged, the intervals and types of materials used, and by whom the hole was plugged.

Acknowledgment of this monitoring and observation hole notice does not indicate that a well permit can be approved. If you have any questions, contact this office.

Sincerely,

Judy J. Sappington
for Fred M. Loo
Water Resources Geologist
Ground Water Section

JTS:cq
cc: Division 6 (with enclosure)

1573I/Form # 0838(P)

6

Page 1 \ 1

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JAN 16 '91

WATER RESOURCES
STATE ENGINEER
COLO.

Total Depth Drilled: 22 (ft)

[illegible]

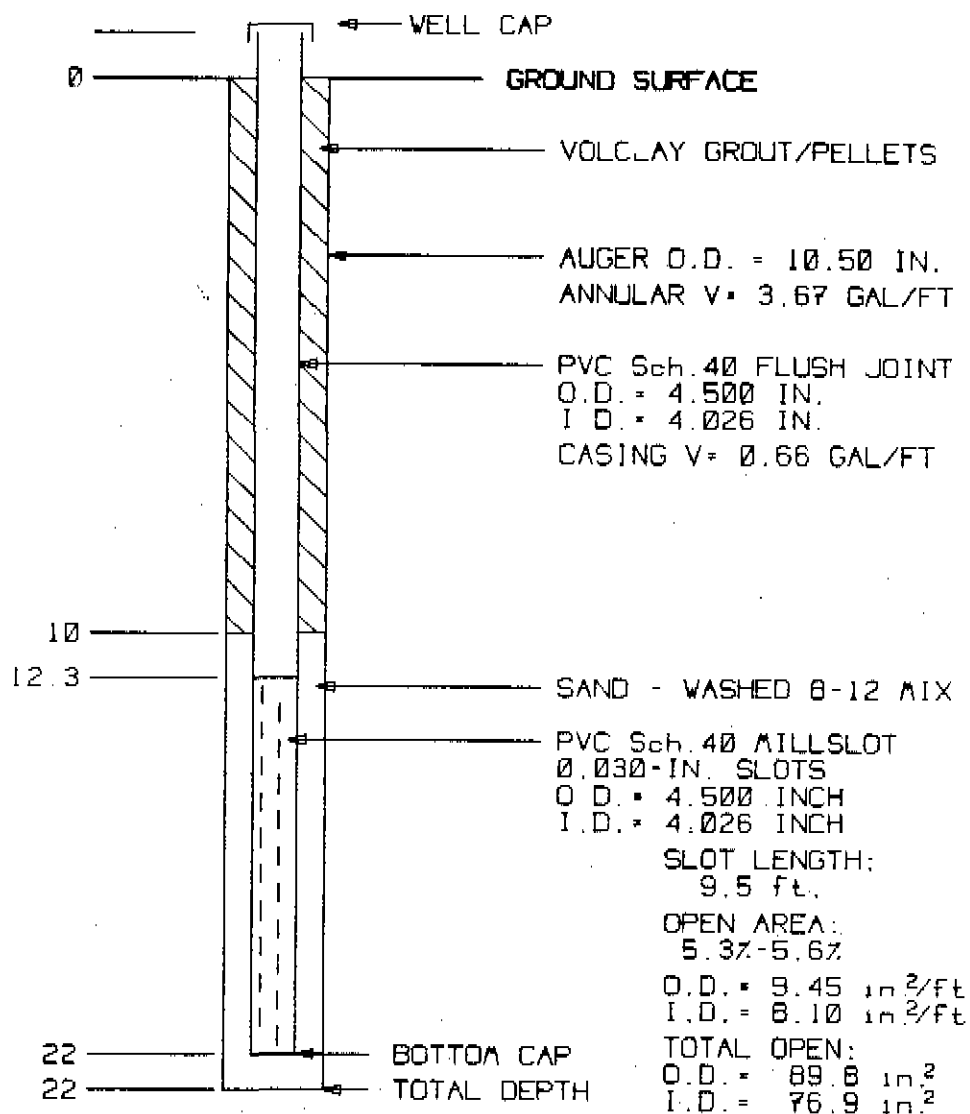
GEOLOGY

WELL CONSTRUCTION

CONSTRUCTION
DETAILS

DEPTH, FT

LITHOLOGY



**WELL CONSTRUCTION
DIAGRAM**

Number YOAST A-5

Date 24 AUGUST 1990

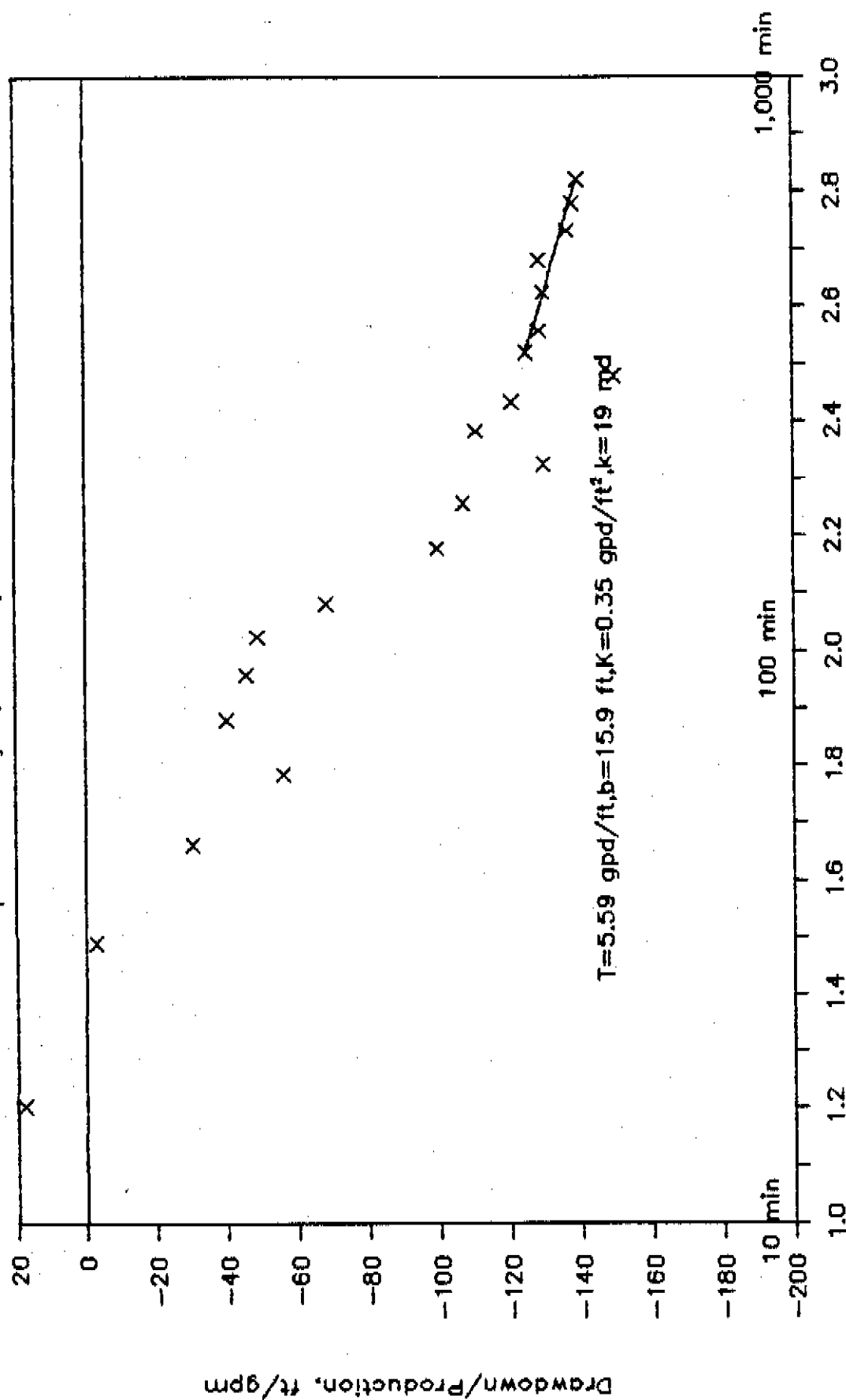
By PAUL OLDAKER

Drilling Method AUGER
HOLLOW STEAM

Figure

Test #1 Yoast A-5

Openflow Analysis, Peabody Coal Co.



WELL TEST ANALYSIS #1 YOAST A-5
 YOAST
 PRABODY COAL CO.
 FILE 1TSTTA5.WK1
 UPDATE = 17 NOVEMBER 1990

Time			Field Measurements		Time Parameters	
Date	hours	min	Discharge Reading ml/min	Downhole Pressure psi	Time Pump On tp min	log (tp) log (min)
17-Nov-90	8	59		4.300	0	ERR
17-Nov-90	9	15	223	4.750	16	1.204
17-Nov-90	9	30	150	4.250	31	1.491
17-Nov-90	9	45	130	3.850	46	1.663
17-Nov-90	10	0	125	3.500	61	1.785
17-Nov-90	10	15	230	3.250	76	1.881
17-Nov-90	10	30	240	3.050	91	1.959
17-Nov-90	10	45	260	2.850	106	2.025
17-Nov-90	11	0	230	2.505	121	2.083
17-Nov-90	11	30	180	2.250	151	2.179
17-Nov-90	12	0	180	2.100	181	2.258
17-Nov-90	12	30	150	2.075	211	2.324
17-Nov-90	13	0	180	2.025	241	2.382
17-Nov-90	13	30	170	1.950	271	2.433
17-Nov-90	14	0	140	1.900	301	2.479
17-Nov-90	14	30	170	1.875	331	2.520
17-Nov-90	15	0	170	1.800	361	2.558
17-Nov-90	16	0	170	1.775	421	2.624
17-Nov-90	17	0	160	1.950	481	2.682
17-Nov-90	18	0	160	1.800	541	2.733
17-Nov-90	19	0	160	1.775	601	2.779
17-Nov-90	20	0	160	1.750	661	2.820

WELL TEST ANALYSIS #1 YOAST A-5
 YOAST
 PRABODY COAL CO.
 FILE 1TSTYAS.WK1
 UPDATE = 17 NOVEMBER 1990

ters		Discharge Annand Draw Alluvius Drawdown			
log (tp) log (min)	Time Since Pump Off t' or 0t min	Water Qw gpm	Drawdown s ft	Inverse s/Qw ft/gpm	Inverse Regression s/Qw ft/gpm
	ERR				0
1.204		0.06	1.04	17.62	
1.491		0.04	-0.12	-2.92	
1.663		0.03	-1.04	-30.29	
1.785		0.03	-1.85	-56.00	
1.881		0.06	-2.43	-39.95	
1.959		0.06	-2.89	-45.57	
2.025		0.07	-3.35	-48.80	
2.083		0.06	-4.15	-68.29	
2.179		0.05	-4.74	-99.65	
2.258		0.05	-5.08	-106.94	
2.324		0.04	-5.14	-129.79	
2.382		0.05	-5.26	-110.59	
2.433		0.04	-5.43	-120.96	
2.479		0.04	-5.54	-150.00	
2.520		0.04	-5.60	-124.82	-125
2.558		0.04	-5.78	-128.68	-127
2.624		0.04	-5.83	-129.96	-130
2.682		0.04	-5.43	-128.52	-133
2.733		0.04	-5.78	-136.72	-135
2.779		0.04	-5.83	-138.09	-137
2.820		0.04	-5.89	-139.45	-139

FORM NO.
GWS-11
07/83

STATE OF COLORADO
OFFICE OF THE STATE ENGINEER
818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

For Office Use only

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MAY 12 1995

WATER RESOURCES
STATE ENGINEER
COLO.

RECEIVED

JUL 31 '95

WATER RESOURCES
STATE ENGINEER
COLO.

PRIOR TO COMPLETING FORM, SEE INSTRUCTIONS ON REVERSE SIDE

CHANGE IN OWNERSHIP/ADDRESS / LOCATION

WELL PERMIT, LIVESTOCK TANK OR EROSION CONTROL DAM

1. NEW OWNER

NAME(S) Seneca Coal Company
Mailing Address PO Drawer D, 36600 Routt County Rd 27
City, St. Zip Hayden, CO 81639
Phone (970) 276-3707

2. THIS CHANGE IS FOR ONE OF THE FOLLOWING:

☒ WELL PERMIT NUMBER 039859-M
☐ LIVESTOCK WATER TANK NUMBER _____
☐ EROSION CONTROL DAM NUMBER _____

3. WELL LOCATION: COUNTY ROUTT OWNER'S WELL DESIGNATION YOY30
(Address) (City) (State) (Zip)
SW 1/4 of the NE 1/4, Sec. 19 Twp. 5 ☒ N. or ☐ S., Range 87 ☐ E. or ☒ W. 6 P.M.
Distances from Section Lines _____ Ft. from ☐ N. or ☐ S. Line, _____ Ft. from ☐ E. or ☐ W. Line.
Subdivision _____ Lot _____ Block _____ Filing (Unit) _____

4. LIVESTOCK TANK OR EROSION CONTROL DAM LOCATION: COUNTY _____
1/4, Sec. _____ Twp. _____ ☐ N. or ☐ S., Range _____ ☐ E. or ☐ W. _____ P.M.

5. The above listed owner(s) say(s) that he (they) own the structure described herein.
The existing record is being amended for the following reason(s):
☒ Change in name of owner. ☒ Change in mailing address. ☐ Correction of location.

6. I (we) have read the statements made herein, know the contents thereof, and state that they are true
to my (our) knowledge.
[Pursuant to Section 24-4-104 (13)(a) C.R.S., the making of false statements herein constitutes perjury in
the second degree and is punishable as a class 1 misdemeanor.]

Name/Title (Please type or print)
H. Theodore Smith
Senior Hydrologist

Signature
H. Theodore Smith

Date
5/8/95

FOR OFFICE USE ONLY

ACCEPTED AS A CHANGE IN OWNERSHIP
AND/OR MAILING ADDRESS.

Hal D. Simpson

Sandy Olson

AUG 09 1995

State Engineer
Court Case No. _____ Div. 6 Co. 54 WD 50 Basin _____ MD _____ Use _____

INSTRUCTIONS CHANGE OWNERSHIP-ADDRESS LOCATION CORRECTION FORM JULY 1993**NO FEE IS REQUIRED**

The form must be typewritten or printed in **BLACK INK**. Initial and date any changes you make on the form.

THIS FORM MAY BE REPRODUCED BY PHOTOCOPYING OR WORD PROCESSING MEANS.

INCOMPLETE FORMS WILL BE RETURNED. ATTACH ADDITIONAL SHEETS IF MORE SPACE IS NEEDED.

1. Print the **new owner's** name and include the mailing address and phone number.
2. Indicate if the change in ownership/address is for a well permit, livestock water tank or erosion control dam. Be sure to include the proper permit, tank or dam number.
3. Complete the well location information. If the address of the well location is different than the mailing address of the owner, include the address where the well is located. If the owner has more than one well, provide well name or number as designated by the owner; i.e. North Well. The actual well location must include ¼, ¼, Section, Township and Range. Check the appropriate boxes for North or South and East or West directions. Complete the Subdivision, Lot, Block and Filing information, if applicable.
4. Complete the location information for the livestock water tank or erosion control dam. The actual location must include ¼, Section, Township, Range and P.M. Check the appropriate boxes for North or South and East or West directions.
5. Check the reason(s) for submitting the form, whether it is a change in ownership/address and/or location correction.
6. The owner of the structure must sign. Print or type your name in the first block if it is different from Item No. 1. If **signing as a representative of a company** who owns the structure, then your title must also be included in the first block. Sign the second block and date the last block.

USE THIS FORM TO CORRECT THE LOCATION OF YOUR WELL IF:

A. Your well was permitted, registered, or first used prior to May 8, 1972 for ordinary household purposes in up to three single-family dwellings, fire protection, the watering of poultry, domestic animals, and livestock on farms and ranches and the irrigation of not over one acre of home gardens and lawns.

B. Your well is not of the type described in A above, but was permitted or registered prior to May 17, 1965. Inside the Designated Ground Water Basins, other procedures and publication may be required.

C. Your well was decreed by the Water Court for the correct location.

IN ALL OTHER CASES USE FORM GWS-42

All other types of changes concerning Livestock Water Tanks and Erosion Control Dams should be submitted on the standard Permit Application form and be accompanied by a \$15.00 filing fee.

If you have questions, contact the Denver or the Division Office where your well is located.

DIVISION 1
800 8th Ave Rm 321
Greeley CO 80631
(303) 352-8712

DIVISION 2 Box 5728
219 W 5th Rm 223
Pueblo CO 81003
(719) 542-3368

DIVISION 3 Box 269
422 4th St
Alamosa CO 81101
(719) 589-6683

DIVISION 4 Box 456
1540 E Niagara
Montrose CO 81402
(303) 249-6622

DIVISION 5 Box 396
50633 US Hwy 6 & 24
Glenwood Spgs CO 81601
(303) 945-5665

DIVISION 6 Box 773450
625 So. Lincoln Ave
Stratford Spgs CO 80477
(303) 879-0272

DIVISION 7 Box 1880
1474 Main St
Durango CO 81302
(303) 247-1845

DENVER OFFICE
Rm 821
1313 Sherman St
Denver CO 80203
(303) 866-3581

STATE OF COLORADO
OFFICE OF THE STATE ENGINEER818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

For Office Use only

FOR INSTRUCTIONS, SEE REVERSE SIDE

STATEMENT OF BENEFICIAL USE

WELL PERMIT NUMBER 039859-M

RECEIVED

JUN 12 '92

WATER RESOURCES
STATE ENGINEER
CRAB

1. WELL OWNER

NAME(S) Peabody Coal Company

Mailing Address 1300 South Yale

City, St. Zip Flagstaff, AZ 86001

Phone (602) 774-5253

2. WELL LOCATION: COUNTY Routt

OWNER'S WELL DESIGNATION YOV30

Same as above

(Address)

(City)

(State)

(Zip)

SW 1/4 of the NE 1/4, Sec. 19 Twp. 5 ☒ N. or ☐ S., Range 87 ☐ E. or ☒ W. 6 P.M.Distances from Section Lines 2260 Ft. from ☒ N. or ☐ S. Line, 1800 Ft. from ☒ E. or ☐ W. Line.

3. The well is being used for the following purpose(s): To monitor for mining impacts to ground water levels and quality.

4. Water from the well was first used beneficially for the above purpose(s) on July 26 19 90

5. The pumping rate claimed is < 1 gallons per minute.

6. The average annual amount of water diverted is N/A acre feet.

7. The land area irrigated (watered) by water from this well is: N/A Acres or Square feet.
(Number)

described as:

(Legal Description)

or as Subdivision Lot(s) Block Filing/Unit

8. Well drilled by: Sharpe Drilling Company Lic. No: 1223

Pump installed by: N/A Lic. No:

9. Meter Mfg. by N/A Serial No.: Date Installed:

I (we) have read the statements made herein, know the contents thereof, and state that they are true to my (our) knowledge. [Pursuant to Section 24-4-104 (13)(a) C.R.S., the making of false statements herein constitutes perjury in the second degree and is punishable as a Class 1 misdemeanor.]

10. Name/Title (Please type or print)

H. Theodore Smith
Senior Hydrologist

Signature

H. Theodore Smith

Date

6/10/92

FOR OFFICE USE ONLY

Pursuant to HB 92-1008, effective March 19, 1992, monitoring and observation well use is an exempt use pursuant to Section 37-92-602(1)(f). This permit shall remain valid provided that the well is constructed prior to the expiration date. A statement of beneficial use is not required.

State Engineer

Court Case No.

Div.

By
Co.

WD

Basin

MD

Date

Use

INSTRUCTIONS FOR THE COMPLETION OF STATEMENT OF BENEFICIAL USE

IMPORTANT INFORMATION: IF THE PERMIT WAS APPROVED PURSUANT TO C.R.S. 37-90-137(2) OR 37-90-105, THEN THE STATEMENT OF BENEFICIAL USE MUST BE RECEIVED BY THE STATE ENGINEER PRIOR TO THE EXPIRATION OF THE PERMIT. IF THE PERMIT WAS APPROVED PURSUANT TO C.R.S. 37-90-107, THE STATEMENT OF BENEFICIAL USE MUST BE RECEIVED WITHIN THREE YEARS FROM THE DATE THE PERMIT WAS ISSUED.

NOTE: IF THE PERMIT WAS APPROVED PURSUANT TO C.R.S. 37-90-137(4), THEN YOU MUST USE FORM NO. GWS-18 "NOTICE OF WELL COMPLETION" AND FORM NO. GWS-19 "NOTICE OF COMMENCEMENT OF BENEFICIAL USE".

The Statement must be typewritten or printed in **BLACK INK**. Initial and date any changes you make on the form. **INCOMPLETE FORMS ARE NOT ACCEPTABLE AND WILL BE RETURNED. ATTACH ADDITIONAL SHEETS IF MORE SPACE IS NEEDED.**

NO FEE IS REQUIRED IF THE STATEMENT IS SUBMITTED TIMELY. IF NOT SUBMITTED TIMELY, A FEE MAY BE REQUIRED.

The Well Permit Number must be indicated in the space provided at the top of the form.
Item Number

1. Print the well owner's name and include the mailing address and phone number.
2. If the well location is different than the mailing address of the owner, include the address where the well is located. If the owner has more than one well, provide well name or number as designated by the owner; i.e. North Well. The actual well location must include 1/4, 1/4, Range, Township, Section and distances from Section lines. Mark the appropriate boxes for North or South and East or West directions.
3. Describe the use(s) to which the water has actually been applied. Permitted uses are described in the conditions of approval of the permit.
4. Enter the date of first beneficial use. This is the date water from the well was first used beneficially for the purposes described in item 3 under the permit number indicated. The date claimed cannot predate the issuance of the permit. It is not the date the form is completed, nor is it the date the well was test pumped.
5. Enter the pumping rate claimed. The rate cannot exceed the permitted maximum rate or the actual pumping rate in gallons per minute, whichever is less: 449 gallons per minute is equivalent to one cubic foot of water per second.
6. Enter the annual amount of water diverted in acre feet. The amount claimed cannot exceed the physical capacity of the well or the permitted amount as limited by any conditions of approval. One acre foot is equivalent to 325,900 gallons. An ordinary home with lawn and garden irrigation diverts an average of less than one acre foot. Average in house use which does not include lawn and garden irrigation (watering) diverts 1/3 acre foot.
7. Report the area irrigated either as acres or square feet by filling in the correct number and checking the appropriate box. You must describe the specific area irrigated using either the legal description of that land or by referencing the Subdivision, Lot, Block and Filing or Unit number. Lawn and garden watering is considered irrigation. If the well is not used for irrigation, place a zero in the acres/square feet irrigated blank. One acre is equivalent to 43,560 square feet. One acre foot is equivalent to 43,560 cubic feet of water.
8. Indicate the Well Construction and Pump Installation Contractors and their License Numbers. If you did the work yourself, so indicate. You must submit work reports if you constructed the well and/or installed the pump.
9. If a totalizing flow meter is required as a condition of the permit, indicate the meter manufacturer name, it's serial number and the date of installation.
10. The well owner must sign the Statement. Print or type your name in the first block if it is different from Item No. 1. If signing as a representative of a company who owns the well, then your title must also be included in the first block. Sign the second block and date the last block.

If you have questions, contact the Denver Office or the Division Office where your well is located.

DIVISION 1
209 ARIX BUILDING
800 8TH AVE.
GREELEY, CO 80631
(303) 352-8712

DIVISION 2
219 W. 5TH RM. 223
PUEBLO, CO. 81003
(719) 542-3368

DIVISION 3
422 4TH ST.
ALAMOSA, CO 81101
(719) 589-6583

DIVISION 4
308 S. FIRST ST.
MONTROSE, CO. 81402
(303) 249-6622

DIVISION 5
1429 GRAND AVENUE
GLNWD SPGS. CO. 81601
(303) 945-5665

DIVISION 6
320 LINCOLN AVE. STE. E
STMBT SPGS., CO. 80477
(303) 879-0272

DIVISION 7
1474 MAIN ST.
DURANGO, CO. 81302
(303) 247-1845

DENVER OFFICE
RM. 823
1313 SHERMAN ST.
DENVER, CO. 80203
(303) 866-3581

OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

1223

WELL PERMIT NUMBER 039859 M

DIV. 6 CNTY. 54 WD 57 DES. BASIN MD

APPLICANT

PEABODY COAL CO
1300 S YALE
FLAGSTAFF, AZ 86001

(602) 774-5253

Lot: Block: Filing: Subdiv:

APPROVED WELL LOCATION

COUNTY SW ROUTE NE
1/4 1/4 Section 19
Twp 5 N, Range 87 W 6th P.M.

DISTANCES FROM SECTION LINES

2260 Ft. from North Section Line
1800 Ft. from East Section Line

PERMIT TO CONSTRUCT MONITORING WELL YOV30 (MH-16463)

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction and Pump Installation Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 17.
- 3) Approved pursuant to CRS 37-90-137(2) to satisfy the permit requirements of CRS 37-90-138(3). Use of this well is limited to monitoring water levels and/or water quality sampling.
- 4) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept locked at all times except during sampling or measuring.
- 5) Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Division of Water Resources upon request.
- 6) Upon conclusion of the monitoring program the well owner shall plug and abandon this well in accordance with the Water Well Construction and Pump Installation Rules.
- 7) The owner shall mark the well in a conspicuous place with well permit number and name of aquifer as appropriate. He shall take necessary means and precautions to preserve these markings.
- 8) This well must be constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction and Pump Installation Rules.
- 9) A well completion report including lithologic log must be submitted by the individual authorized to construct the well. For non-standard construction the report must include an as built drawing showing details; such as depth, casing, perforated zones, and a description of the grouting type and interval.
- 10) This well shall be constructed not more than 200 feet from the location specified on this permit.
- 11) Issuance of this permit cancels Permit No. 039381-M.

APPROVED:
FML

John A. Danilson
State Engineer

John M. Lov

Receipt No.

0329023A

DATE ISSUED

SEP 18 1991

By

EXPIRATION DATE

SEP 18 1992

RECEIVED

PERMIT APPLICATION FORM

AUG 12 '91

Application must be complete where applicable. Type or print in BLACK INK. No overstrikes or erasures unless initialed.

() A PERMIT TO USE GROUND WATER
(x) A PERMIT TO CONSTRUCT A WELL
FOR: () A PERMIT TO INSTALL A PUMP

() REPLACEMENT FOR NO. _____
() OTHER _____
WATER COURT CASE NO. _____

WATER RESOURCES
STATE ENGINEER
COLO

4-99

FIELD NO.

(1) APPLICANT - mailing address

NAME Peabody Coal Company

STREET 1300 South Yale

CITY Flagstaff, AZ 86001

(State) (Zip)

TELEPHONE NO. 602-774-5253

FOR OFFICE USE ONLY; DO NOT WRITE IN THIS COLUMN

Receipt No. 329023A

Basin _____ Dist. _____

CONDITIONS OF APPROVAL

This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.

(2) LOCATION OF PROPOSED WELL

County _____ Routt _____
 _____ SW ¼ of the _____ NE ¼, Section _____ 19
 Twp. _____ 5 _____ N, Rng. _____ 87 _____ W, _____ 6th P.M.
 (N.S.) (E.W.)

(3) WATER USE AND WELL DATA

Proposed maximum pumping rate (gpm) < 1 gpm

Average annual amount of ground water to be appropriated (acre-feet): _____

Number of acres to be irrigated: _____

Proposed total depth (feet): 141

Aquifer ground water is to be obtained from:

Wadge Overburden (Williams Fork Fm)

Owner's well designation **Y0V30**

GROUND WATER TO BE USED FOR:

() HOUSEHOLD USE ONLY - no irrigation (0)
() DOMESTIC (1) () INDUSTRIAL (5)
() LIVESTOCK (2) () IRRIGATION (6)
() COMMERCIAL (4) () MUNICIPAL (8)

(X) OTHER (9) ~~Monitoring levels & quality~~
DETAIL THE USE ON BACK IN (11)

(4) DRILLER

Name Sharpe Drilling Company
Street P.O. B ox 710
City Trinidad, CO (State) 81082 (Zip)
Telephone No. 719-846-2584 Lic. No. 1223

APPLICATION APPROVED

PERMIT NUMBER _____

DATE ISSUED _____

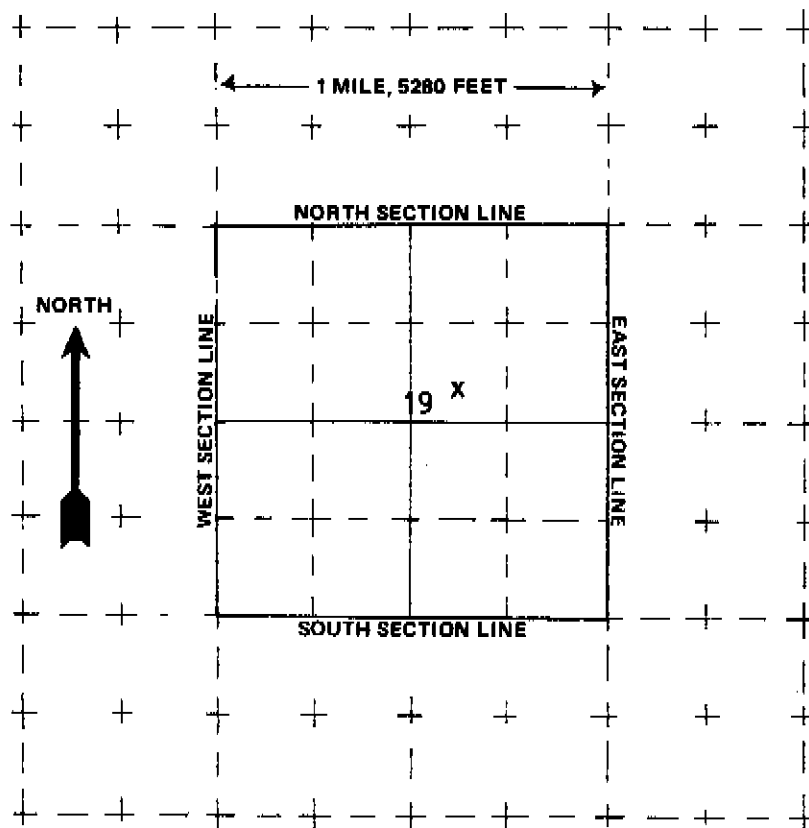
EXPIRATION DATE _____

(STATE ENGINEER)

BY _____

I.D. 6 COUNTY 54 - 57

(5) **THE LOCATION OF THE PROPOSED WELL** and the area on which the water will be used must be indicated on the diagram below. Use the **CENTER SECTION** (1 section, 640 acres) for the well location.



The scale of the diagram is 2 inches = 1 mile
Each small square represents 40 acres.

WATER EQUIVALENTS TABLE (Rounded Figures)

An acre-foot covers 1 acre of land 1 foot deep
1 cubic foot per second (cfs) . . . 449 gallons per minute (gpm)
A family of 5 will require approximately 1 acre-foot of water per year.
1 acre-foot . . . 43,560 cubic feet . . . 325,900 gallons.
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.

(6) **THE WELL MUST BE LOCATED BELOW** by distances from section lines.

2260 ft. from N sec. line
(north or south)

1800 ft. from E sec. line
(east or west)

LOT _____ BLOCK _____ FILING # _____

SUBDIVISION _____

(7) **TRACT ON WHICH WELL WILL BE LOCATED** Owner: N/A

No. of acres _____ Will this be
There will be more than one monitoring
the only well on this tract?
well on this tract.

(8) **PROPOSED CASING PROGRAM**

Plain Casing

4 in. from 0 ft. to 127 ft.

_____ in. from _____ ft. to _____ ft.

Perforated casing

4 in. from 127 ft. to 141 ft.

_____ in. from _____ ft. to _____ ft.

(9) **FOR REPLACEMENT WELLS** give distance and direction from old well and plans for plugging it:

N/A

(10) **LAND ON WHICH GROUND WATER WILL BE USED:**

Owner(s): N/A No. of acres: _____

Legal description: _____

(11) **DETAILED DESCRIPTION** of the use of ground water: Household use and domestic wells must indicate type of disposal system to be used.

Used for monitoring of mining impacts to ground water levels and water quality.

(12) **OTHER WATER RIGHTS** used on this land, including wells. Give Registration and Water Court Case Numbers.

Type or right
N/A

Used for (purpose)

Description of land on which used

(13) **THE APPLICANT(S) STATE(S) THAT THE INFORMATION SET FORTH HEREON IS TRUE TO THE BEST OF HIS KNOWLEDGE.**

H. Theodore Smith Senior Hydrologist
SIGNATURE OF APPLICANT(S)

RECEIVED

AUG 12 '91

WATER RESOURCES
STATE ENGINEER
COLO

ATTACHMENT 1



PEABODY COAL COMPANY
Western Division

1300 South Yale
Flagstaff, Arizona 86001
(602) 774-5253

RECEIVED

AUG 12 '91

WATER RESOURCES
STATE ENGINEER
COLO.

August 6, 1991

Mr. Fred Lou
Office of the State Engineer
Division of Water Resources
1313 Sherman Street, Room 818
Denver, Colorado 80203

Dear Mr. Lou:

Enclosed please find two attachments. Attachment 1 contains three corrected well permit application forms. These forms, along with seventeen others, were submitted to your office by Joseph Cope of the firm, Frasca and Joiner on June 11, 1991. These three forms contained errors which translated into incorrect well locations being specified on the well permits issued to us by your office. The well permit numbers containing the coordinate errors are 039379, 039380 and 039381. Please void these well permit numbers and reissue three new ones based on the correct information presented on the well permit applications. A reapplication fee of \$60.00 is included.

Attachment 2 contains copies of two of the twenty well permit applications referenced in Attachment 1. ~~Permit numbers, unknown to Peabody, were~~
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~~these two applications.~~ The two wells are part of a cluster of three wells completed in different units within the Williams Fork formation. A well permit (No. 039382) was issued for one of the wells (identified as YWU (MH-16464) and we can only assume the absence of permit numbers for the other two wells was an oversight on your part.

Issued 8/2/91

39524-M
+ 39523-M



PEABODY COAL COMPANY
Western Division

Best Copy Available

1300 South Yale
Flagstaff, Arizona 86001
(602) 774-5253

August 6, 1991

Mr. Fred Lou
Office of the State Engineer
Division of Water Resources
1313 Sherman Street, Room 818
Denver, Colorado 80203

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Attachment 2 contains copies of two of the twenty well permit applications referenced in Attachment 1. For some reason, unknown to Peabody, well permit numbers were not issued by your agency for these two applications. The two wells are part of a cluster of three wells completed in different units within the Williams Fork formation. A well permit (No. 039382) was issued for one of the wells (identified as YWU (MH-16464) and we can only assume the absence of permit numbers for the other two wells was an oversight on your part.

Issued 8/2/91

#5 39524-M
+ 39523-M

Fred Lou
Page 2

Please let us know your determination at your
earliest convenience.

Sincerely,

H. Theodore Smith

H. Theodore Smith
Senior Hydrologist

swl

Encl.

RECEIVED

AUG 12 '91

WATER RESOURCES
STATE ENGINEER
1910

RECEIVED

AUG 12 '91

FED. RESOURCES
ENGINEER
101

ATTACHMENT 2

FORM NO.
GWS-11-
07/93

STATE OF COLORADO
OFFICE OF THE STATE ENGINEER
818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

For Office Use only

RECEIVED

MAY 12 1995

WATER RESOURCES
STATE ENGINEER
COLO.

RECEIVED

JUL 31 1995

WATER RESOURCES
STATE ENGINEER
COLO.

PRIOR TO COMPLETING FORM, SEE INSTRUCTIONS ON REVERSE SIDE

CHANGE IN OWNERSHIP/ADDRESS / LOCATION

WELL PERMIT, LIVESTOCK TANK OR EROSION CONTROL DAM

1. NEW OWNER

NAME(S) Seneca Coal Company
Mailing Address P.O. Drawer D, 36600 Routt County Rd 27
City, St. Zip Hayden, CO 81639
Phone (970) 276-3707

2. THIS CHANGE IS FOR ONE OF THE FOLLOWING:

- ☒ WELL PERMIT NUMBER 039861-M
☐ LIVESTOCK WATER TANK NUMBER _____
☐ EROSION CONTROL DAM NUMBER _____

3. WELL LOCATION: COUNTY ROUTT OWNER'S WELL DESIGNATION YW30

(Address) (City) (State) (Zip)
SW 1/4 of the NE 1/4, Sec. 19 Twp. 5 ☒ N. or ☐ S., Range 87 ☐ E. or ☒ W. 6 P.M.
Distances from Section Lines _____ Ft. from ☐ N. or ☐ S. Line, _____ Ft. from ☐ E. or ☐ W. Line.
Subdivision _____ Lot _____ Block _____ Filing (Unit) _____

4. LIVESTOCK TANK OR EROSION CONTROL DAM LOCATION: COUNTY _____

1/4, Sec. _____ Twp. _____ ☐ N. or ☐ S., Range _____ ☐ E. or ☐ W. _____ P.M.

5. The above listed owner(s) say(s) that he (they) own the structure described herein.

The existing record is being amended for the following reason(s):

- ☒ Change in name of owner. ☒ Change in mailing address. ☐ Correction of location.

6. I (we) have read the statements made herein, know the contents thereof, and state that they are true to my (our) knowledge.

[Pursuant to Section 24-4-104 (13)(a) C.R.S., the making of false statements herein constitutes perjury in the second degree and is punishable as a class 1 misdemeanor.]

Name/Title (Please type or print)

H. Theodore Smith
Senior Hydrologist

Signature

H. Theodore Smith

Date

5/8/95

FOR OFFICE USE ONLY

ACCEPTED AS A CHANGE IN OWNERSHIP
AND/OR MAILING ADDRESS.

Hal D. Simpson

Hal D. Simpson

AUG 09 1995

State Engineer

Court Case No. _____

Div. 6

Co. 54

Wd. 57

Basin _____

MD _____

Use _____

INSTRUCTIONS CHANGE OWNERSHIP-ADDRESS LOCATION CORRECTION FORM JULY 1993**NO FEE IS REQUIRED**

The form must be typewritten or printed in **BLACK INK**. Initial and date any changes you make on the form.

**THIS FORM MAY BE REPRODUCED BY PHOTOCOPYING OR WORD PROCESSING MEANS.
INCOMPLETE FORMS WILL BE RETURNED. ATTACH ADDITIONAL SHEETS IF MORE SPACE IS NEEDED.**

1. Print the **new owner's** name and include the mailing address and phone number.
2. Indicate if the change in ownership/address is for a well permit, livestock water tank or erosion control dam. Be sure to include the proper permit, tank or dam number.
3. Complete the well location information. If the address of the well location is different than the mailing address of the owner, include the address where the well is located. If the owner has more than one well, provide well name or number as designated by the owner; i.e. North Well. The actual well location must include ¼, ¼, Section, Township and Range. Check the appropriate boxes for North or South and East or West directions. Complete the Subdivision, Lot, Block and Filing Information, if applicable.
4. Complete the location information for the livestock water tank or erosion control dam. The actual location must include ¼, Section, Township, Range and P.M. Check the appropriate boxes for North or South and East or West directions.
5. Check the reason(s) for submitting the form, whether it is a change in ownership/address and/or location correction.
6. The owner of the structure must sign. Print or type your name in the first block if it is different from item No. 1. If **signing as a representative of a company** who owns the structure, then your title must also be included in the first block. Sign the second block and date the last block.

USE THIS FORM TO CORRECT THE LOCATION OF YOUR WELL IF:

A. Your well was permitted, registered, or first used prior to May 8, 1972 for ordinary household purposes in up to three single-family dwellings, fire protection, the watering of poultry, domestic animals, and livestock on farms and ranches and the irrigation of not over one acre of home gardens and lawns.

B. Your well is not of the type described in A above, but was permitted or registered prior to May 17, 1965. Inside the Designated Ground Water Basins, other procedures and publication may be required.

C. Your well was decreed by the Water Court for the correct location.

IN ALL OTHER CASES USE FORM GWS-42

All other types of changes concerning Livestock Water Tanks and Erosion Control Dams should be submitted on the standard Permit Application form and be accompanied by a \$15.00 filing fee.

If you have questions, contact the Denver or the Division Office where your well is located.

DIVISION 1
800 8th Ave Rm 321
Greeley CO 80631
(303) 352-8712

DIVISION 2 Box 5728
219 W 5th Rm 223
Pueblo CO 81003
(719) 542-3368

DIVISION 3 Box 269
422 4th St
Alamosa CO 81101
(719) 589-6683

DIVISION 4 Box 456
1540 E Niagara
Montrose CO 81402
(303) 249-6622

DIVISION 5 Box 396
50633 US Hwy 6 & 24
Glenwood Spgs CO 81601
(303) 945-5665

DIVISION 6 Box 773450
625 So. Lincoln Ave
Strmbt Spgs CO 80477
(303) 879-0272

DIVISION 7 Box 1880
1474 Main St
Durango CO 81302
(303) 247-1845

DENVER OFFICE
Rm 821
1313 Sherman St
Denver CO 80203
(303) 866-3581

FOR INSTRUCTIONS, SEE REVERSE SIDE

STATEMENT OF BENEFICIAL USE

WELL PERMIT NUMBER 039861-M

RECEIVED

JUN 12 '92

WATER RESOURCES
STATE ENGINEER
CMB

1. WELL OWNER

NAME(S) Peabody Coal Company

Mailing Address 1300 South Yale

City, St. Zip Flagstaff, AZ 86001

Phone (602) 774-5253

2. WELL LOCATION: COUNTY Routt OWNER'S WELL DESIGNATION YW30

Same as above

(Address)

(City)

(State)

(Zip)

SW 1/4 of the NE 1/4, Sec. 19 Twp. 5 ☒ N. or ☐ S., Range 87 ☐ E. or ☒ W. 6 P.M.Distances from Section Lines 2320 Ft. from ☒ N. or ☐ S. Line, 1800 Ft. from ☒ E. or ☐ W. Line.

3. The well is being used for the following purpose(s): To monitor for mining implants to ground water levels and quality.

4. Water from the well was first used beneficially for the above purpose(s) on July 26, 1990

5. The pumping rate claimed is < 1 gallons per minute.

6. The average annual amount of water diverted is N/A acre feet.

7. The land area irrigated (watered) by water from this well is: N/A Acres or Square feet.

(Number)

described as:

(Legal Description)

or as Subdivision Lot(s) Block Filing/Unit

8. Well drilled by: Sharpe Drilling Company Lic. No: 1223

Pump installed by: N/A Lic. No:

9. Meter Mfg. by N/A Serial No.: Date Installed:

I (we) have read the statements made herein, know the contents thereof, and state that they are true to my (our) knowledge. [Pursuant to Section 24-4-104 (13)(a) C.R.S., the making of false statements herein constitutes perjury in the second degree and is punishable as a Class 1 misdemeanor.]

10. Name/Title (Please type or print)

H. Theodore Smith
Senior Hydrologist

Signature

H. Theodore Smith

Date

6/10/92

Pursuant to HB 92-1008, effective March 19, 1992, monitoring and observation well use is an exempt use pursuant to Section 37-92-602(1)(f). This permit shall remain valid provided that the well is constructed prior to the expiration date. A statement of beneficial use is not required.

FOR OFFICE USE ONLY

State Engineer
Court Case No.

Div.

By
Co.

WD

Basin

MD

Date

Use

INSTRUCTIONS FOR THE COMPLETION OF STATEMENT OF BENEFICIAL USE

IMPORTANT INFORMATION: IF THE PERMIT WAS APPROVED PURSUANT TO C.R.S. 37-90-137(2) OR 37-90-106, THEN THE STATEMENT OF BENEFICIAL USE MUST BE RECEIVED BY THE STATE ENGINEER PRIOR TO THE EXPIRATION OF THE PERMIT. IF THE PERMIT WAS APPROVED PURSUANT TO C.R.S. 37-90-107, THE STATEMENT OF BENEFICIAL USE MUST BE RECEIVED WITHIN THREE YEARS FROM THE DATE THE PERMIT WAS ISSUED.

NOTE: IF THE PERMIT WAS APPROVED PURSUANT TO C.R.S. 37-90-137(4), THEN YOU MUST USE FORM NO. GWS-18 "NOTICE OF WELL COMPLETION" AND FORM NO. GWS-19 "NOTICE OF COMMENCEMENT OF BENEFICIAL USE".

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Item Number

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3. Describe the use(s) to which the water has actually been applied. Permitted uses are described in the conditions of approval of the permit.
4. Enter the date of first beneficial use. This is the date water from the well was first used beneficially for the purposes described in item 3 under the permit number indicated. The date claimed cannot predate the issuance of the permit. It is not the date the form is completed, nor is it the date the well was test pumped.
5. Enter the pumping rate claimed. The rate cannot exceed the permitted maximum rate or the actual pumping rate in gallons per minute, whichever is less: 449 gallons per minute is equivalent to one cubic foot of water per second.
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7. Report the area irrigated either as acres or square feet by filling in the correct number and checking the appropriate box. You must describe the specific area irrigated using either the legal description of that land or by referencing the Subdivision, Lot, Block and Filing or Unit number. Lawn and garden watering is considered irrigation. If the well is not used for irrigation, place a zero in the acres/square feet irrigated blank. One acre is equivalent to 43,560 square feet. One acre foot is equivalent to 43,560 cubic feet of water.
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9. If a totalizing flow meter is required as a condition of the permit, indicate the meter manufacturer name, it's serial number and the date of installation.
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If you have questions, contact the Denver Office or the Division Office where your well is located.

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800 8TH AVE.
GREELEY, CO 80631
(303) 352-8712

DIVISION 2
219 W. 5TH RM. 223
PUEBLO, CO. 81003
(719) 542-3368

DIVISION 3
422 4TH ST.
ALAMOSA, CO 81101
(719) 589-6683

DIVISION 4
308 S. FIRST ST.
MONTROSE, CO. 81402
(303) 249-6622

DIVISION 5
1429 GRAND AVENUE
GLNWD SPGS. CO. 81601
(303) 945-5665

DIVISION 6
320 LINCOLN AVE. STE. E
STMBT SPGS., CO. 80477
(303) 879-0272

DIVISION 7
1474 MAIN ST.
DURANGO, CO. 81302
(303) 247-1845

DENVER OFFICE
RM. 823
1313 SHERMAN ST.
DENVER, CO. 80203
(303) 866-3581

OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

1223

WELL PERMIT NUMBER **039861** **M**
DIV. 6 CNTY. 54 WD 57 DES. BASIN MD

APPLICANT

Lot: Block: Filing: Subdiv:

PEABODY COAL CO
1300 S YALE
FLAGSTAFF, AZ 86001

(602) 774-5253

APPROVED WELL LOCATION

COUNTY ROUTT
SW 1/4 NE 1/4 Section 19
Twp 5 N Range 87 W 6th P.M.

DISTANCES FROM SECTION LINES

2320 Ft. from North Section Line
1800 Ft. from East Section Line

PERMIT TO CONSTRUCT MONITORING WELL YW30 (MH-16463)

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction and Pump Installation Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 17.
- 3) Approved pursuant to CRS 37-90-137(2) to satisfy the permit requirements of CRS 37-90-138(3). Use of this well is limited to monitoring water levels and/or water quality sampling.
- 4) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept locked at all times except during sampling or measuring.
- 5) Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Division of Water Resources upon request.
- 6) Upon conclusion of the monitoring program the well owner shall plug and abandon this well in accordance with the Water Well Construction and Pump Installation Rules.
- 7) The owner shall mark the well in a conspicuous place with well permit number and name of aquifer as appropriate. He shall take necessary means and precautions to preserve these markings.
- 8) This well must be constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction and Pump Installation Rules.
- 9) A well completion report including lithologic log must be submitted by the individual authorized to construct the well. For non-standard construction the report must include an as built drawing showing details; such as depth, casing, perforated zones, and a description of the grouting type and interval.
- 10) This well shall be constructed not more than 200 feet from the location specified on this permit.
- 11) Issuance of this permit cancels Permit No. 039380-M.

APPROVED:
FNL

John A. Danilov
State Engineer

James M. Lov
By

Receipt No.

0329023C

DATE ISSUED

SEP 18 1991

EXPIRATION DATE

SEP 18 1992

RECEIVED

PERMIT APPLICATION FORM

AUG 12 '91

Application must be complete where applicable. Type or print in BLACK INK. No overstrikes or erasures unless initialed.

() A PERMIT TO USE GROUND WATER
(☒) A PERMIT TO CONSTRUCT A WELL
FOR: () A PERMIT TO INSTALL A PUMP

() REPLACEMENT FOR NO. _____
() OTHER _____
WATER COURT CASE NO. _____

39861-M WATER RESOURCES
STATE ENGINEER
GOLD.

65-15477

3. 数据字典

(1) APPLICANT - mailing address

NAME Peabody Coal Company
STREET 1300 South Yale
CITY Flagstaff AZ 86001
(State) (Zip)
TELEPHONE NO. 602-774-5253

(2) LOCATION OF PROPOSED WELL

County _____ Routt _____
SW ¼ of the NE ¼, Section 19
Twp. 5 N, Rng. 87 W, 6th P.M.
(N.S.) (E.W.)

(3) WATER USE AND WELL DATA

Proposed maximum pumping rate (gpm) < 1 gpm

Average annual amount of ground water
to be appropriated (acre-feet): _____

Number of acres to be irrigated: _____

Proposed total depth (feet): 208

Aquifer ground water is to be obtained from:
Wedge Coal (Willaims Fork Fm)

Owner's well designation YW30

GROUND WATER TO BE USED FOR:

() HOUSEHOLD USE ONLY - no irrigation (0)
 () DOMESTIC (1) () INDUSTRIAL (5)
 () LIVESTOCK (2) () IRRIGATION (6)
 () COMMERCIAL (4) () MUNICIPAL (8)
 (☒) OTHER (9) Monitoring levels & quality
 DETAIL THE USE ON BACK IN (11)

(4) DRILLER

Name Sharpe Drilling Company
Street P.O. Box 710
City Trinidad, CO 81082
(State) (Zip)
Telephone No. 719-846-2584 Lic. No. 1223

FOR OFFICE USE ONLY: DO NOT WRITE IN THIS COLUMN

Receipt No. 63029002301

Basin _____ Dist. _____

CONDITIONS OF APPROVAL

This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.

APPLICATION APPROVED

PERMIT NUMBER _____

DATE ISSUED _____

EXPIRATION DATE _____

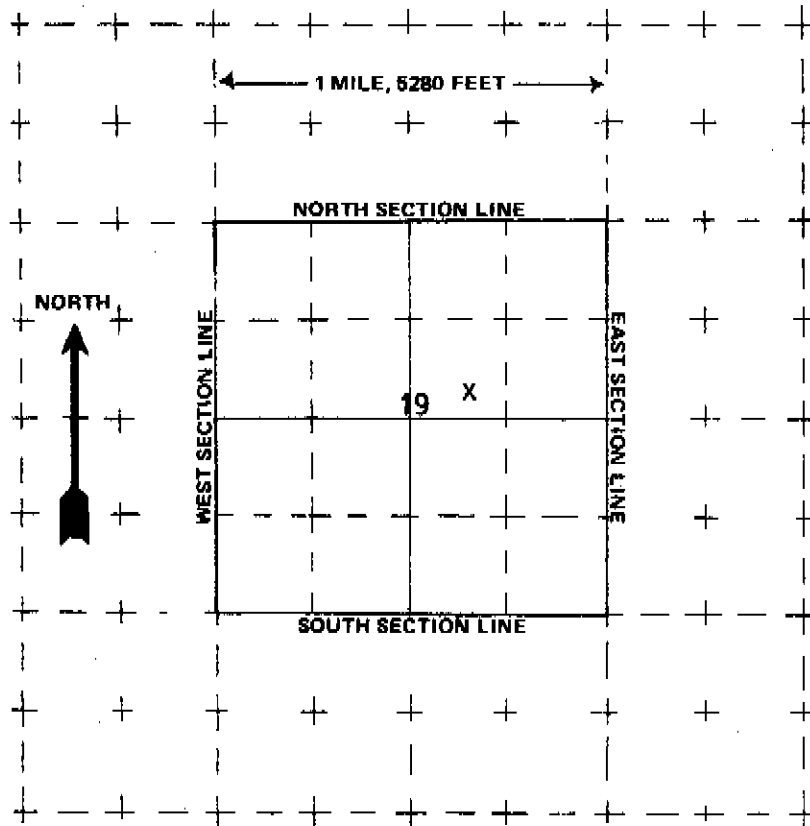
(STATE ENGINEER)

BY _____

I.D. 6 COUNTY 54-57

10-10-1963

(5) **THE LOCATION OF THE PROPOSED WELL** and the area on which the water will be used must be indicated on the diagram below. Use the CENTER SECTION (1 section, 640 acres) for the well location.



The scale of the diagram is 2 inches = 1 mile
Each small square represents 40 acres.

WATER EQUIVALENTS TABLE (Rounded Figures)

An acre-foot covers 1 acre of land 1 foot deep
1 cubic foot per second (cfs) . . . 449 gallons per minute (gpm)
A family of 5 will require approximately 1 acre-foot of water per year.
1 acre-foot . . . 43,560 cubic feet . . . 325,900 gallons.
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.

(6) **THE WELL MUST BE LOCATED BELOW** by distances from section lines.

2320 ft. from N (north or south) sec. line

1800 ft. from E (east or west) sec. line

LOT _____ BLOCK _____ FILING # _____

SUBDIVISION _____

(7) **TRACT ON WHICH WELL WILL BE LOCATED** Owner: N/A

No. of acres _____ Will this be
There will be more than one monitoring well
the only well on this tract? on this tract.

(8) **PROPOSED CASING PROGRAM**

Plain Casing

4 in. from 0 ft. to 188.5 ft.

_____ in. from _____ ft. to _____ ft.

Perforated casing

4 in. from 188.5 ft. to 208 ft.

_____ in. from _____ ft. to _____ ft.

(9) **FOR REPLACEMENT WELLS** give distance and direction from old well and plans for plugging it:

N/A

(10) **LAND ON WHICH GROUND WATER WILL BE USED:**

Owner(s): N/A No. of acres: _____

Legal description: _____

(11) **DETAILED DESCRIPTION** of the use of ground water: Household use and domestic wells must indicate type of disposal system to be used
Used for monitoring of mining impacts to ground water levels and water quality.

(12) **OTHER WATER RIGHTS** used on this land, including wells. Give Registration and Water Court Case Numbers.

Type or right

Used for (purpose)

Description of land on which used

N/A

(13) **THE APPLICANT(S) STATE(S) THAT THE INFORMATION SET FORTH HEREON IS TRUE TO THE BEST OF HIS KNOWLEDGE.**

X. Theodore Smith Senior Hydrologist
SIGNATURE OF APPLICANT(S)

COLORADO DIVISION OF WATER RESOURCES
DEPARTMENT OF NATURAL RESOURCES
1313 SHERMAN ST., RM 818, DENVER, CO 80203
phone - info: (303) 866-3587 main: (303) 866-3581
fax: (303) 866-3589 http://www.water.state.co.us

MONITORING/OBSERVATION

Water Well Permit Application

Review instructions on reverse side prior to completing form.
The form must be completed in black ink.

1. Well Owner Information

Name of well owner

Seneca Coal Company

Mailing address

Box 670

City

Hayden

State

CO

Zip code

81639

Telephone #

(970) 276-5109

2. Type Of Application (check applicable boxes)

☐ Use existing well

☐ Construct new well

☐ Other:

☒ Replacement for existing monitoring well:

Permit no.: 039378-M

3. Refer To (if applicable)

Monitoring hole acknowledgment

MH-

Well name or #

YWC33

4. Location Of Proposed Well

County

Routt

NW

1/4 of the SE 1/4

Section

19

Township N or S

5

Range

87

E or W

W

Principal Meridian

6

Distance of well from section lines (section lines are typically not property lines)

2960

Ft. from N

1820

Ft. from E

For replacement wells only - distance and direction from old well to new well

2,800

feet

north west

direction

Well location address (if applicable)

Optional: GPS well location information in UTM format

Required settings for GPS units are as follows:

Format must be UTM

Zone must be 13

Units must be Meters

Datum must be NAD27 (CONUS)

Unit must be set to true north

Were points averaged? ☐ YES ☐ NO

Northing

Easting

5. Property Owner Information

Name of property owner

Same as well owner

Mailing address

City

State

Zip Code

Telephone #

()

Office Use Only

RECEIVED

Form GWS-46 (1/2001)

APR 16 2002

WATER RESOURCES
STATE ENGINEER
COLO.

6. Use Of Well

Use of this well is limited to monitoring water levels
and/or water quality sampling

7. Well Data (proposed)

Total depth

320

feet

Aquifer

Williams Fork Form.

8. Consultant Information (if applicable)

Name of contact person

Company name

Mailing address

City

State

Zip Code

Telephone #

()

9. Proposed Well Driller License #(optional):

10. Signature Of Well Owner, Consultant Or Authorized Agent

The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104 (13)(a). I have read the statements herein, know the contents thereof and state that they are true to my knowledge.

Sign here (Must be original signature)

Dennis Jones

Date

4-10-02

Print name & title

Dennis Jones - Hydrologist I

Office Use Only

USGS map name

DWR map no.

Surface elev.

WE ✓

Receipt area only

Invoice # 490556-B
4/16/02 -- 10:26:12 AM
Cashier ID: 04
\$ 40.00

Check Purchase- #8092

DIV 6 WD 51 BA MD

Form No.

GWS-25

**OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES**

818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

AUTH

WELL PERMIT NUMBER 241426
DIV. 6 WD 57 DES. BASIN MD

APPLICANT

SENECA COAL COMPANY
BOX 670
HAYDEN, CO 81639-

(970) 276-5109

APPROVED WELL LOCATION

ROUTT COUNTY

NW 1/4 SE 1/4 Section 19
Township 5 N Range 87 W Sixth P.M.

DISTANCES FROM SECTION LINES

2960 Ft. from North Section Line
1820 Ft. from East Section Line

UTM COORDINATES

Northing: Easting:

PERMIT TO CONSTRUCT A WELL

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-92-602(3)(b)(I) for uses as described in CRS 37-92-602(1)(f). Use of this well is limited to monitoring water levels and/or water quality sampling. This well is known as YWC33.
- 4) Approved for the relocation of an existing well, permit no. 39378-M. The old well drilled under permit no. 39378-M must be plugged in accordance with Rule 16 of the Water Well Construction Rules within ninety (90) days of completion of the new well. The enclosed Well Abandonment Report form must be completed and submitted to affirm that the old well was plugged.
- 5) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept capped and locked at all times except during sampling or measuring.
- 6) Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Division of Water Resources upon request.
- 7) Upon conclusion of the monitoring program the well owner shall plug this well in accordance with Rule 16 of the Water Well Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water Resources within 60 days of plugging.
- 8) The owner shall mark the well in a conspicuous place with well permit number(s) and name of aquifer as appropriate, and shall take necessary means and precautions to preserve these markings.
- 9) This well must be constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction Rules. If non-standard construction is anticipated, a variance request must be submitted in accordance with Rule 18 and approved prior to well construction.
- 10) A Well Construction and Test Report (Form GWS-31), including lithologic log must be submitted by the individual authorized to construct the well. For non-standard construction, the report must include an as-built drawing showing details such as depth, casing, perforated zones, and a description of the grouting type and interval.
- 11) This well shall be constructed not more than 200 feet from the location specified on this permit.

APPROVED
SMJ

State Engineer

DATE ISSUED **MAY 31 2002**

By

EXPIRATION DATE

MAY 31 2004

Receipt No. 0490556B

COLORADO DIVISION OF WATER RESOURCES
DEPARTMENT OF NATURAL RESOURCES
1313 SHERMAN ST., RM 818, DENVER, CO 80203
phone - info: (303) 866-3587 main: (303) 866-3581
fax: (303) 866-3589 http://www.water.state.co.us

MONITORING/OBSERVATION

Water Well Permit Application

Review instructions on reverse side prior to completing form.
The form must be completed in black ink.

1. Well Owner Information

Name of well owner

Seneca Coal Company

Mailing address

Box 670

City State Zip code

Hayden CO 81639

Telephone #
(970) 276-5109

2. Type Of Application (check applicable boxes)

☐ Use existing well

☐ Construct new well

☐ Other:

☒ Replacement for existing monitoring well:

Permit no.: 039367-M

3. Refer To (if applicable)

Monitoring hole acknowledgment

MH-

Well name or #

YWC433

4. Location Of Proposed Well

County

Routt NW 1/4 of the SE

Section Township N or S Range E or W Principal Meridian

19 5 87 6

Distance of well from section lines (section lines are typically not property lines)

2960 Ft. from N ☒ S ☐ 1800 Ft. from E ☒ W ☐

For replacement wells only - distance and direction from old well to new well

2,800 feet northwest direction

Well location address (if applicable)

Optional: GPS well location information in UTM format

Required settings for GPS units are as follows:

Format must be UTM

Zone must be 13

Northing

Units must be Meters

Datum must be NAD27 (CONUS)

Unit must be set to true north

Easting

Were points averaged? ☐ YES ☐ NO

5. Property Owner Information

Name of property owner

Same as well owner

Mailing address

City State Zip Code

Telephone #

()

Office Use Only

Form GWS-46 (1/2001)

APR 16 2002

WATER RESOURCES
STATE ENGINEER
COLO.

6. Use Of Well

Use of this well is limited to monitoring water levels
and/or water quality sampling

7. Well Data (proposed)

Total depth

400

Aquifer

Williams Fork Form.

8. Consultant Information (if applicable)

Name of contact person

Company name

Mailing address

City

State

Zip Code

Telephone #

()

9. Proposed Well Driller License #(optional):

10. Signature Of Well Owner, Consultant Or Authorized Agent

The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104 (13)(a). I have read the statements herein, know the contents thereof and state that they are true to my knowledge.

Sign here (Must be original signature)

Date

Dennis Jones

4-10-02

Print name & title

Dennis Jones - Hydrologist I

Office Use Only

USGS map name

DWR map no.

Surface elev.

WE ✓

Receipt area only

Invoice # 490556 -A
4/16/02 -- 10:26:05 AM
Cashier ID: 04
\$ 40.00

Check Purchase- #0092

DIV 6 WD 57 BA MD

OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES
818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

AUTH

WELL PERMIT NUMBER 241425
DIV. 6 WD 57 DES. BASIN MD

APPLICANT

SENECA COAL COMPANY
BOX 670
HAYDEN, CO 81639-

(970) 276-5109

APPROVED WELL LOCATION

ROUTT COUNTY

NW 1/4 SE 1/4 Section 19
Township 5 N Range 87 W Sixth P.M.

DISTANCES FROM SECTION LINES

2960 Ft. from North Section Line
1800 Ft. from East Section Line

UTM COORDINATES

Northing: Easting:

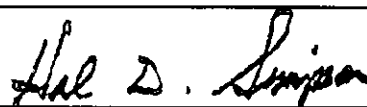
PERMIT TO CONSTRUCT A WELL

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

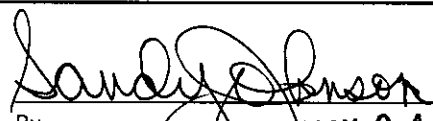
CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-92-602(3)(b)(I) for uses as described in CRS 37-92-602(1)(f). Use of this well is limited to monitoring water levels and/or water quality sampling. This well is known as YWCU33.
- 4) Approved for the relocation of an existing well, permit no. 39367-M. The old well drilled under permit no. 39367-M must be plugged in accordance with Rule 16 of the Water Well Construction Rules within ninety (90) days of completion of the new well. The enclosed Well Abandonment Report form must be completed and submitted to affirm that the old well was plugged.
- 5) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept capped and locked at all times except during sampling or measuring.
- 6) Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Division of Water Resources upon request.
- 7) Upon conclusion of the monitoring program the well owner shall plug this well in accordance with Rule 16 of the Water Well Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water Resources within 60 days of plugging.
- 8) The owner shall mark the well in a conspicuous place with well permit number(s) and name of aquifer as appropriate, and shall take necessary means and precautions to preserve these markings.
- 9) This well must be constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction Rules. If non-standard construction is anticipated, a variance request must be submitted in accordance with Rule 18 and approved prior to well construction.
- 10) A Well Construction and Test Report (Form GWS-31), including lithologic log must be submitted by the individual authorized to construct the well. For non-standard construction, the report must include an as-built drawing showing details such as depth, casing, perforated zones, and a description of the grouting type and interval.
- 11) This well shall be constructed not more than 200 feet from the location specified on this permit.

APPROVED
SMJ


State Engineer

DATE ISSUED **MAY 31 2002**


By **MAY 31 2004**
EXPIRATION DATE

Receipt No. 0490556A

FORM NO.
GWS-13
07/83

STATE OF COLORADO
OFFICE OF THE STATE ENGINEER
818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

For Office Use only

RECEIVED

MAY 12 1995

WATER RESOURCES
STATE ENGINEER
COLO.

RECEIVED

JUL 31 '95

WATER RESOURCES
STATE ENGINEER
COLO.

PRIOR TO COMPLETING FORM, SEE INSTRUCTIONS ON REVERSE SIDE

CHANGE IN OWNERSHIP/ADDRESS / LOCATION

WELL PERMIT, LIVESTOCK TANK OR EROSION CONTROL DAM

1. NEW OWNER

NAME(S) Seneca Coal Company
Mailing Address P.O. Drawer D, 36600 Routt County Rd 27
City, St, Zip Hayden, CO 81639
Phone (970) 276-3707

2. THIS CHANGE IS FOR ONE OF THE FOLLOWING:

- ☒ WELL PERMIT NUMBER 039860-M
☐ LIVESTOCK WATER TANK NUMBER _____
☐ EROSION CONTROL DAM NUMBER _____

3. WELL LOCATION: COUNTY ROUTT OWNER'S WELL DESIGNATION YWU30

(Address) (City) (State) (Zip)
SW 1/4 of the NE 1/4, Sec. 19 Twp. 5 ☒ N. or ☐ S., Range 87 ☐ E. or ☒ W. 6 P.M.
Distances from Section Lines _____ Ft. from ☐ N. or ☐ S. Line, _____ Ft. from ☐ E. or ☐ W. Line.
Subdivision _____ Lot _____ Block _____ Filing (Unit) _____

4. LIVESTOCK TANK OR EROSION CONTROL DAM LOCATION: COUNTY _____

1/4, Sec. _____ Twp. _____ ☐ N. or ☐ S., Range _____ ☐ E. or ☐ W. _____ P.M.

5. The above listed owner(s) say(s) that he (they) own the structure described herein.

The existing record is being amended for the following reason(s):

- ☐ Change in name of owner. ☒ Change in mailing address. ☐ Correction of location.

6. I (we) have read the statements made herein, know the contents thereof, and state that they are true to my (our) knowledge.

[Pursuant to Section 24-4-104 (13)(a) C.R.S., the making of false statements herein constitutes perjury in the second degree and is punishable as a class 1 misdemeanor.]

Name/Title (Please type or print)

H. Theodore Smith
Senior Hydrologist

Signature

H. Theodore Smith

Date

5/8/95

FOR OFFICE USE ONLY

ACCEPTED AS A CHANGE IN OWNERSHIP
AND/OR MAILING ADDRESS.

Hal D. Simpson

Sandy Johnson

AUG 09 1995

State Engineer

Court Case No. _____

Div. 6

Co. 54

W. 57

Basin _____

Date

MD _____

Use _____

INSTRUCTIONS CHANGE OWNERSHIP-ADDRESS LOCATION CORRECTION FORM JULY 1993**NO FEE IS REQUIRED**

The form must be typewritten or printed in **BLACK INK**. Initial and date any changes you make on the form.

THIS FORM MAY BE REPRODUCED BY PHOTOCOPYING OR WORD PROCESSING MEANS.

INCOMPLETE FORMS WILL BE RETURNED. ATTACH ADDITIONAL SHEETS IF MORE SPACE IS NEEDED.

1. Print the **new owner's** name and include the mailing address and phone number.
2. Indicate if the change in ownership/address is for a well permit, livestock water tank or erosion control dam. Be sure to include the proper permit, tank or dam number.
3. Complete the well location information. If the address of the well location is different than the mailing address of the owner, include the address where the well is located. If the owner has more than one well, provide well name or number as designated by the owner; i.e. North Well. The actual well location must include 1/4, 1/4, Section, Township and Range. Check the appropriate boxes for North or South and East or West directions. Complete the Subdivision, Lot, Block and Filing information, if applicable.
4. Complete the location information for the livestock water tank or erosion control dam. The actual location must include 1/4, Section, Township, Range and P.M. Check the appropriate boxes for North or South and East or West directions.
5. Check the reason(s) for submitting the form, whether it is a change in ownership/address and/or location correction.
6. The owner of the structure must sign. Print or type your name in the first block if it is different from Item No. 1. If signing as a representative of a company who owns the structure, then your title must also be included in the first block. Sign the second block and date the last block.

USE THIS FORM TO CORRECT THE LOCATION OF YOUR WELL IF:

A. Your well was permitted, registered, or first used prior to May 8, 1972 for ordinary household purposes in up to three single-family dwellings, fire protection, the watering of poultry, domestic animals, and livestock on farms and ranches and the irrigation of not over one acre of home gardens and lawns.

B. Your well is not of the type described in A above, but was permitted or registered prior to May 17, 1965. Inside the Designated Ground Water Basins, other procedures and publication may be required.

C. Your well was decreed by the Water Court for the correct location.

IN ALL OTHER CASES USE FORM GWS-42

All other types of changes concerning Livestock Water Tanks and Erosion Control Dams should be submitted on the standard Permit Application form and be accompanied by a \$15.00 filing fee.

If you have questions, contact the Denver or the Division Office where your well is located.

DIVISION 1
800 8th Ave Rm 321
Greeley CO 80631
(303) 352-8712

DIVISION 2 Box 5728
219 W 5th Rm 223
Pueblo CO 81003
(719) 542-3368

DIVISION 3 Box 269
422 4th St
Alamosa CO 81101
(719) 589-6683

DIVISION 4 Box 456
1540 E Niagara
Montrose CO 81402
(303) 249-6622

DIVISION 5 Box 396
50633 US Hwy 6 & 24
Glenwood Spgs CO 81601
(303) 945-5665

DIVISION 6 Box 773450
625 So. Lincoln Ave
Stratford Spgs CO 80477
(303) 879-0272

DIVISION 7 Box 1880
1474 Main St
Durango CO 81302
(303) 247-1845

DENVER OFFICE
Rm 821
1313 Sherman St
Denver CO 80203
(303) 866-3581

STATE OF COLORADO
OFFICE OF THE STATE ENGINEER518 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

For Office Use only

FOR INSTRUCTIONS, SEE REVERSE SIDE

STATEMENT OF BENEFICIAL USE

WELL PERMIT NUMBER 039860-M

RECEIVED
JUN 12 '92WATER RESOURCES
STATE ENGINEER
COLO.

1. WELL OWNER

NAME(S) Peabody Coal Company

Mailing Address 1300 South Yale

City, St. Zip Flagstaff, AZ 86001

Phone (602) 774-5253

2. WELL LOCATION: COUNTY Routt OWNER'S WELL DESIGNATION YWU30

Same as above

(Address)

(City)

(State)

(Zip)

SW 1/4 of the NE 1/4, Sec. 19, Twp. 5 ☒ N. or ☐ S., Range 87 ☐ E. or ☒ W. 6 P.M.Distances from Section Lines 2380 Ft. from ☒ N. or ☐ S. Line, 1800 Ft. from ☒ E. or ☐ W. Line.

3. The well is being used for the following purpose(s): To monitor for mining impacts to ground water levels and quality.

4. Water from the well was first used beneficially for the above purpose(s) on July 26 1990

5. The pumping rate claimed is < 1 gallons per minute.

6. The average annual amount of water diverted is N/A acre feet.

7. The land area irrigated (watered) by water from this well is: N/A Acres or Square feet,
(Number)

described as:

(Legal Description)

or as Subdivision Lot(s) Block Filling/Unit

8. Well drilled by: Sharpe Drilling Company Lic. No: 1223

Pump installed by: N/A

Lic. No:

9. Meter Mfg. by N/A Serial No.: Date Installed:

I (we) have read the statements made herein, know the contents thereof, and state that they are true to my (our) knowledge. [Pursuant to Section 24-4-104 (13)(a) C.R.S., the making of false statements herein constitutes perjury in the second degree and is punishable as a Class 1 misdemeanor.]

10. Name/Title (Please type or print)

H. Theodore Smith
Senior Hydrologist

Signature

H. Theodore Smith

Date

6/10/92

FOR OFFICE USE ONLY

Pursuant to HB 92-1008, effective March 19, 1992, monitoring and observation well use is an exempt use pursuant to Section 37-92-602(1)(f). This permit shall remain valid provided that the well is constructed prior to the expiration date. A statement of beneficial use is not required.

State Engineer
Court Case No.

Div.

By
Co.

WD

Basin

MD

Date

Use

INSTRUCTIONS FOR THE COMPLETION OF STATEMENT OF BENEFICIAL USE

IMPORTANT INFORMATION: IF THE PERMIT WAS APPROVED PURSUANT TO C.R.S. 37-90-137(2) OR 37-90-105, THEN THE STATEMENT OF BENEFICIAL USE MUST BE RECEIVED BY THE STATE ENGINEER PRIOR TO THE EXPIRATION OF THE PERMIT. IF THE PERMIT WAS APPROVED PURSUANT TO C.R.S. 37-90-107, THE STATEMENT OF BENEFICIAL USE MUST BE RECEIVED WITHIN THREE YEARS FROM THE DATE THE PERMIT WAS ISSUED.

NOTE: IF THE PERMIT WAS APPROVED PURSUANT TO C.R.S. 37-90-137(4), THEN YOU MUST USE FORM NO. GWS-18 'NOTICE OF WELL COMPLETION' AND FORM NO. GWS-19 'NOTICE OF COMMENCEMENT OF BENEFICIAL USE'.

The Statement must be typewritten or printed in BLACK INK. Initial and date any changes you make on the form. INCOMPLETE FORMS ARE NOT ACCEPTABLE AND WILL BE RETURNED. ATTACH ADDITIONAL SHEETS IF MORE SPACE IS NEEDED.

NO FEE IS REQUIRED IF THE STATEMENT IS SUBMITTED TIMELY. IF NOT SUBMITTED TIMELY, A FEE MAY BE REQUIRED.

The Well Permit Number must be indicated in the space provided at the top of the form.

Item Number

1. Print the well owner's name and include the mailing address and phone number.
2. If the well location is different than the mailing address of the owner, include the address where the well is located. If the owner has more than one well, provide well name or number as designated by the owner: i.e. North Well. The actual well location must include 1/4, 1/4, Range, Township, Section and distances from Section lines. Mark the appropriate boxes for North or South and East or West directions.
3. Describe the use(s) to which the water has actually been applied. Permitted uses are described in the conditions of approval of the permit.
4. Enter the date of first beneficial use. This is the date water from the well was first used beneficially for the purposes described in item 3 under the permit number indicated. The date claimed cannot predate the issuance of the permit. It is not the date the form is completed, nor is it the date the well was test pumped.
5. Enter the pumping rate claimed. The rate cannot exceed the permitted maximum rate or the actual pumping rate in gallons per minute, whichever is less: 449 gallons per minute is equivalent to one cubic foot of water per second.
6. Enter the annual amount of water diverted in acre feet. The amount claimed cannot exceed the physical capacity of the well or the permitted amount as limited by any conditions of approval. One acre foot is equivalent to 325,900 gallons. An ordinary home with lawn and garden irrigation diverts an average of less than one acre foot. Average in house use which does not include lawn and garden irrigation (watering) diverts 1/3 acre foot.
7. Report the area irrigated either as acres or square feet by filling in the correct number and checking the appropriate box. You must describe the specific area irrigated using either the legal description of that land or by referencing the Subdivision, Lot, Block and Filing or Unit number. Lawn and garden watering is considered irrigation. If the well is not used for irrigation, place a zero in the acres/square feet irrigated blank. One acre is equivalent to 43,560 square feet. One acre foot is equivalent to 43,560 cubic feet of water.
8. Indicate the Well Construction and Pump Installation Contractors and their License Numbers. If you did the work yourself, so indicate. You must submit work reports if you constructed the well and/or installed the pump.
9. If a totalizing flow meter is required as a condition of the permit, indicate the meter manufacturer name, it's serial number and the date of installation.
10. The well owner must sign the Statement. Print or type your name in the first block if it is different from Item No. 1. If signing as a representative of a company who owns the well, then your title must also be included in the first block. Sign the second block and date the last block.

If you have questions, contact the Denver Office or the Division Office where your well is located.

DIVISION 1
209 ARIX BUILDING
800 8TH AVE.
GREELEY, CO 80631
(303) 352-8712

DIVISION 2
219 W. 5TH RM. 223
PUEBLO, CO. 81003
(719) 542-3368

DIVISION 3
422 4TH ST.
ALAMOSA, CO 81101
(719) 589-6683

DIVISION 4
308 S. FIRST ST.
MONTROSE, CO. 81402
(303) 249-6622

DIVISION 5
1429 GRAND AVENUE
GLNWD SPQS. CO. 81601
(303) 945-5665

DIVISION 6
320 LINCOLN AVE. STE. E
STMET SPQS., CO. 80477
(303) 879-0272

DIVISION 7
1474 MAIN ST.
DURANGO, CO. 81302
(303) 247-1845

DENVER OFFICE
RM. 823
1313 SHERMAN ST.
DENVER, CO. 80203
(303) 866-3581

OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

1223

APPLICANT

WELL PERMIT NUMBER 039860 M
DIV. 6 CNTY. 54 WD 57 DES. BASIN MD

Lot: Block: Filing: Subdiv:

PEABODY COAL CO
1300 S YALE
FLAGSTAFF, AZ 86001

(602) 774-5253

APPROVED WELL LOCATION

COUNTY ROUTT
SW 1/4 NE 1/4 Section 19
Twp 5 N, Range 87 W 6th P.M.

DISTANCES FROM SECTION LINES

2380 Ft. from North Section Line
1800 Ft. from East Section Line

PERMIT TO CONSTRUCT MONITORING WELL YWU30 (MH-16463)

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction and Pump Installation Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 17.
- 3) Approved pursuant to CRS 37-90-137(2) to satisfy the permit requirements of CRS 37-90-138(3). Use of this well is limited to monitoring water levels and/or water quality sampling.
- 4) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept locked at all times except during sampling or measuring.
- 5) Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Division of Water Resources upon request.
- 6) Upon conclusion of the monitoring program the well owner shall plug and abandon this well in accordance with the Water Well Construction and Pump Installation Rules.
- 7) The owner shall mark the well in a conspicuous place with well permit number and name of aquifer as appropriate. He shall take necessary means and precautions to preserve these markings.
- 8) This well must be constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction and Pump Installation Rules.
- 9) A well completion report including lithologic log must be submitted by the individual authorized to construct the well. For non-standard construction the report must include an as built drawing showing details; such as depth, casing, perforated zones, and a description of the grouting type and interval.
- 10) This well shall be constructed not more than 200 feet from the location specified on this permit.
- 11) Issuance of this permit cancels Permit No. 039379-M.

APPROVED:
FML

State Engineer

Receipt No.

0329023B

DATE ISSUED

SEP 18 1991

By

EXPIRATION DATE

SEP 18 1992

RECEIVED

PERMIT APPLICATION FORM

AUG 12 '91

WATER RESOURCES
STATE ENGINEER
COLO.

Application must be complete where applicable. Type or print in BLACK INK. No overstrikes or erasures unless initialed.

() A PERMIT TO USE GROUND WATER
(X) A PERMIT TO CONSTRUCT A WELL
FOR: () A PERMIT TO INSTALL A PUMP

() REPLACEMENT FOR NO. _____
() OTHER _____
WATER COURT CASE NO. _____

4-20

INDEX

(1) APPLICANT - mailing address

NAME Peabody Coal Company
STREET 1300 South Yale
CITY Flagstaff AZ 86001
(State) (Zip)
TELEPHONE NO. 602-774-5253

(2) LOCATION OF PROPOSED WELL

County _____ Routt _____
 _____ SW ¼ of the _____ NE ¼, Section _____ 19 _____
 Twp. _____ 5 _____ N, Rng. _____ 87 _____ W, _____ 6th P.M.
 (N.S.) (E.W.)

(3) WATER USE AND WELL DATA

Proposed maximum pumping rate (gpm) ← 1 gpm

Average annual amount of ground water
to be appropriated (acre-feet): _____

Number of acres to be irrigated: _____

Proposed total depth (feet): 261

Aquifer ground water is to be obtained from:
Wadge Underburden (Williams Fork Fm)

Owner's well designation YWU30

GROUND WATER TO BE USED FOR:

() HOUSEHOLD USE ONLY - no irrigation (0)
 () DOMESTIC (1) () INDUSTRIAL (5)
 () LIVESTOCK (2) () IRRIGATION (6)
 () COMMERCIAL (4) () MUNICIPAL (8)
 () OTHER (9) **monitoring levels and quality**

DETAIL THE USE ON BACK IN (11)

(4) DRILLER

Name Sharpe Drilling Company
Street P.O. Box 710
City Trinidad, CO 81082 (State) (Zip)
Telephone No. 719-846-2584 Lic. No. 1223

FOR OFFICE USE ONLY: DO NOT WRITE IN THIS COLUMN

Receipt No. 70290-23B1

Basin _____ Dist. _____

CONDITIONS OF APPROVAL

This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.

APPLICATION APPROVED

PERMIT NUMBER _____

DATE ISSUED _____

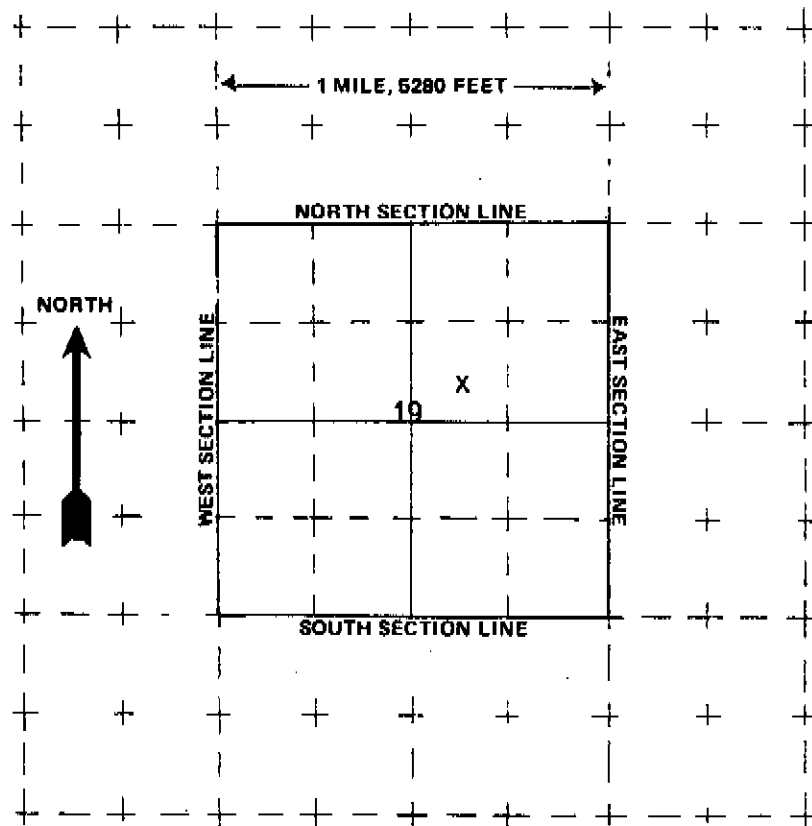
EXPIRATION DATE _____

(STATE ENGINEER)

BY _____

I.D. 6 COUNTY 54-57

(5) **THE LOCATION OF THE PROPOSED WELL** and the area on which the water will be used must be indicated on the diagram below. Use the CENTER SECTION (1 section, 640 acres) for the well location.



The scale of the diagram is 2 inches = 1 mile
Each small square represents 40 acres.

WATER EQUIVALENTS TABLE (Rounded Figures)

An acre-foot covers 1 acre of land 1 foot deep
1 cubic foot per second (cfs) . . . 449 gallons per minute (gpm)
A family of 5 will require approximately 1 acre-foot of water per year.
1 acre-foot . . . 43,560 cubic feet . . . 325,900 gallons.
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.

(6) **THE WELL MUST BE LOCATED BELOW** by distances from section lines.

2380 ft. from N sec. line
(north or south)

1800 ft. from E sec. line
(east or west)

LOT _____ BLOCK _____ FILING # _____

SUBDIVISION _____

(7) **TRACT ON WHICH WELL WILL BE LOCATED** Owner: N/A

No. of acres _____ Will this be
There is more than one monitoring well on
the only well on this tract? on this tract.

(8) **PROPOSED CASING PROGRAM**

Plain Casing

4 in. from 0 ft. to 217 ft.

_____ in. from _____ ft. to _____ ft.

Perforated casing

4 in. from 217 ft. to 261 ft.

_____ in. from _____ ft. to _____ ft.

(9) **FOR REPLACEMENT WELLS** give distance and direction from old well and plans for plugging it:

N/A

(10) **LAND ON WHICH GROUND WATER WILL BE USED:**

Owner(s): N/A No. of acres: _____

Legal description: _____

(11) **DETAILED DESCRIPTION** of the use of ground water: Household use and domestic wells must indicate type of disposal system to be used.

Used for monitoring of mining impacts to groundwater levels and water quality.

(12) **OTHER WATER RIGHTS** used on this land, including wells. Give Registration and Water Court Case Numbers.

Type or right

Used for (purpose)

Description of land on which used

N/A

(13) **THE APPLICANT(S) STATE(S) THAT THE INFORMATION SET FORTH HEREON IS TRUE TO THE BEST OF HIS KNOWLEDGE.**

H. Theodore Smith
SIGNATURE OF APPLICANT(S)

Senior Hydrologist