



# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

## Inspection Report

Permit Number:	C0250005
Inspection Type:	TECHNICAL
Inspection Date:	Monday, July 9, 2018
Start Date/Time:	7/9/2018 12:00:00 PM
End Date/Time:	7/9/2018 3:30:00 PM
Last Inspection:	Tuesday, June 12, 2018

Representatives Present During the Inspection:	
OGM	Priscilla Burton
Company	Kirk Nicholes

Inspector: Priscilla Burton,

Weather: sun 90F

InspectionID Report Number: 6189

Accepted by:DHADDOCK

7/11/2018

Permittee: **ALTON COAL DEVELOPMENT LLC**  
 Operator: **ALTON COAL DEVELOPMENT LLC**  
 Site: **COAL HOLLOW**  
 Address: **463 North 100 West, Suite 1, CEDAR CITY UT 84720**  
 County: **KANE**  
 Permit Type: **PERMANENT COAL PROGRAM**  
 Permit Status: **ACTIVE**

### Current Acreages

1,017.15	<b>Total Permitted</b>
443.00	<b>Total Disturbed</b>
219.00	<b>Phase I</b>
77.00	<b>Phase II</b>
	<b>Phase III</b>

### Mineral Ownership

- Federal
- State
- County
- Fee
- Other

### Types of Operations

- Underground
- Surface
- Loadout
- Processing
- Reprocessing

### Report summary and status for pending enforcement actions, permit conditions, Division Orders, and amendments:

Alton Coal began topsoil and subsoil salvage from prime farmland soils in June 2018. Prime farmland topsoil and subsoil removal is proceeding as described in Vol. 9 Chap 9, Sec. R645-302-317.400 et seq. Soil salvage has progressed 400 feet North of the elk fence.

Bruce Chessler, CPSSc, was on site to monitor the topsoil and subsoil removal. Topsoil was not being salvaged during the inspection due to breakdown of one of the road graders.

Refer to Dwgs 2-4 Topsoil Handling Plan; Dwg 5-51B Topsoil Stockpiles Details; Dwg 5-53 Coal Removal Sequence; Dwg 5-57 Overburden Removal Sequence.

Mining activity is in Pit 16 West half, however no trucks were being loaded during the inspection. Pits 11 - 14 are backfilled, but not graded. During the inspection two dozers were pushing alluvium from above Pit 17 into the East half of Pit 16.

Inspector's Signature:

Priscilla Burton,  
Inspector ID Number: 37

Date Wednesday, July 11, 2018



**REVIEW OF PERMIT, PERFORMANCE STANDARDS PERMIT CONDITION REQUIREMENTS**

1. Substantiate the elements on this inspection by checking the appropriate performance standard.
  - a. For COMPLETE inspections provide narrative justification for any elements not fully inspected unless element is not appropriate to the site, in which case check Not Applicable.
  - b. For PARTIAL inspections check only the elements evaluated.
2. Document any noncompliance situation by reference the NOV issued at the appropriate performance standard listed below.
3. Reference any narratives written in conjunction with this inspection at the appropriate performance standard listed below.
4. Provide a brief status report for all pending enforcement actions, permit conditions, Divison Orders, and amendments.

	Evaluated	Not Applicable	Comment	Enforcement
1. Permits, Change, Transfer, Renewal, Sale	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Signs and Markers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Topsoil	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.a Hydrologic Balance: Diversions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.b Hydrologic Balance: Sediment Ponds and Impoundments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.c Hydrologic Balance: Other Sediment Control Measures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.d Hydrologic Balance: Water Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.e Hydrologic Balance: Effluent Limitations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Explosives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Disposal of Excess Spoil, Fills, Benches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Coal Mine Waste, Refuse Piles, Impoundments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Noncoal Waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Protection of Fish, Wildlife and Related Environmental Issues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Slides and Other Damage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Contemporaneous Reclamation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Backfilling And Grading	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Revegetation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Subsidence Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Cessation of Operations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.a Roads: Construction, Maintenance, Surfacing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.b Roads: Drainage Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Other Transportation Facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Support Facilities, Utility Installations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. AVS check	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Air Quality Permit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Bonding and Insurance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### **3. Topsoil**

Using road graders in tandem, approximately 1 foot of topsoil and 3 feet of subsoil has been stripped from A2-Other and prime farmland DRH soil types A1, D and G, North of the elk fence for about 400 feet to the boundary of Pit 18 coal and East about half way across, above the surface of pit 18 coal.

Within the prime farmland soils, soil pits have been excavated to 4 feet deep on 2.2 acre centers to evaluate the salvage depth. We observed seven of these soil pits and found the soil to be quite similar across the DRH soil map unit G, AAA Family. Soil pits 4 & 5 in map unit E, Atlatl-CCC soil, which East of the ravine have a pronounced alluvial deposit below the A horizon. Soil pH is being monitored during salvage. The pH values of A & B horizons (pH = 8.2) and of the C horizon (pH = 8.5) are similar in both map units G and E. Samples have been taken from each soil pit, by horizon or 12 inch depth, where horizonation is not apparent, for analysis of parameters described in Section R645-302-317.400. Density of each horizon was analyzed prior to salvage using a nuclear probe. This information was available during the inspection and is attached. Each 4 foot deep soil profile exposed in soil pits has been archived into a soil profile box. The pedons collected were compared to Soil Data Point locations 12AS018 (AAA soil or map unit G soil) and 12AS020 and 12AS025 (Atlatl-CCC or map unit E soil) shown on Soils Map 1 of the Prime Farmland Soil Survey (MRP Vol 10 - Supplemental Reports - Order 2 Soil Survey for the North Private Lease Expansion).

Landowner DRH topsoil A and subsoil piles B & C are under construction in the locations shown on Dwg 5-51B. Topsoil salvage will continue along the landowner fenceline North and East to the permit boundary as shown on Dwg 2-4. When the A2 soils in the ravine are encountered, they will be included in the DRH C horizon stockpile.

#### **4.b Hydrologic Balance: Sediment Ponds and Impoundments**

Sludge from sediment pond #1 clean out has been placed on top of area labeled substitute topsoil on Dwg 2-2 Topsoil Handling (for the South Lease, approved June 2018, Task 5695). We discussed the fact that designated topsoil substitute areas must be protected in a similar fashion as topsoil stockpiles. Therefore, this 66,800 sq ft area will no longer be considered topsoil substitute and will be removed from Dwg 2-2 with an amendment.

### **7. Coal Mine Waste, Refuse Piles, Impoundments**

During the inspection, sludge removed from Pond #1 was being hauled to the SE corner of Pit 10 in a location shown as Pit 9-C on Dwg 5-19.

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PIT 11- MAP UNIT G



PIT 10 MAP UNIT G



PIT 5 - MAP UNIT E



undisturbed DRH Prime Farmland

**ATTACHMENT A**



**“DRH G” foreground, A2 OTHER” distance**



**UD DITCH 14 AND FENCELINE to be moved Eastward**



**A2 OTHER - RAVINE SOIL**



**MINING PIT 16**

ACD NPL Prime and State Soils

			GEM Engineering Field Density Test Summary						Converted Density Data	
			Lab Data			Field Data				
			Elev. inches	Lab Max		Dry Density lbs/ft <sup>3</sup>	Moisture %	Dry Density lbs/ft <sup>3</sup>		
				Dry Density lbs/ft <sup>3</sup>	Optimum Moisture %				Dry Density gr./cm <sup>3</sup>	Dry Density gr./cm <sup>3</sup>
Prime 1	A	0-12	-6	102.5	18.0	76.7	18.3	75	1.64	1.23
	B	12-24	-18	115.0	14.0	98.5	10.3	86	1.84	1.58
	B	24-36	-32	115.0	14.0	103.4	11.4	90	1.84	1.65
	B	24-36	-60	115.0	14.0	101.2	17.5	88	1.84	1.62
Prime 2	A	0-12	-6	102.5	18.0	70.5	12.1	69	1.64	1.13
	A	12-20	-20	115.0	14.0	93.8	18.7	82	1.84	1.50
	B	20-32	-38	115.0	14.0	87.4	14.1	76	1.84	1.40
	B	32-48	-53	115.0	14.0	100.3	15.9	87	1.84	1.60
Prime 3	A	0-12	-6	102.5	14.0	72.1	13.8	70	1.64	1.15
	A	12-18	-18	115.0	14.0	79.9	15.9	69	1.84	1.28
	B	18-30	-36	115.0	14.0	92.4	13.2	80	1.84	1.48
	B	30-48	-53	115.0	18.0	96.1	17.0	84	1.84	1.54
Prime 4	A	0-12	-6	102.5	18.0	86.9	9.0	85	1.64	1.39
	B	12-24	-18	102.5	18.0	80.7	10.5	79	1.64	1.29
	B	24-36	-28	115.0	14.0	85.0	6.3	74	1.84	1.36
	B	36-48	-48	no test same material						
Prime 5	A	0-12	-6	102.5	18.0	91.5	4.9	89	1.64	1.46
	A	12-18	-18	102.5	18.0	80.1	13.7	78	1.64	1.28
	B	18-30	-28	115.0	14.0	93.6	10.5	81	1.84	1.50
	B	30-48	-48	no test same material						
Prime 6	A	0-12	Not Tested							
	A	12-20								
	B	20-36								
	B	36-48								
Prime 7	A	0-12	-6	102.5	18.0	84.4	11.3	82	1.64	1.35
	A	12-24	-14	115.0	14.0	90.6	10.0	79	1.84	1.45
	B	24-36	-32	115.0	14.0	100.5	17.1	87	1.84	1.61
	C	36-48	-48	115.0	14.0	103.9	15.6	90	1.84	1.66
Prime 8	A	0-12	-6	102.5	18.0	76.6	15.7	75	1.64	1.23
	A	12-20	-18	102.5	18.0	78.2	14.9	76	1.64	1.25
	B	20-32	-38	115.0	14.0	95.6	17.9	83	1.84	1.53
	B	32-48	-53	no test same material						
Prime 9	A	0-12	-6	102.5	18.0	73.2	12.8	71	1.64	1.17
	A	12-20	-20	102.5	18.0	57.7	13.5	56	1.64	0.92
	B	20-32	-36	115.00	14.00	96.40	18.70	84	1.84	1.54
	B	32-48	-56	115.00	14.00	98.00	15.30	85	1.84	1.57
Prime 10	A	0-12	-6	102.5	18.0	76.5	11.9	75	1.64	1.22
	A	12-24	-18	115.0	14.0	87.3	8.9	76	1.84	1.40
	B	24-36	-28	115.0	14.0	98.1	7.4	85	1.84	1.57
	B	36-48	-48	no test same material						
Prime 11	A	0-12	-6	102.5	18.0	93.4	9.3	91	1.64	1.49
	A	12-18	-18	115.0	14.0	84.4	14.8	73	1.84	1.35
	B	18-30	-24	115.0	14.0	93.2	9.7	81	1.84	1.49
	B	30-48	-53	no test same material						
Prime 12	A	0-12	Not Tested							
	B	12-24								
	B	24-36								
	B	36-48								