C/007/022 Incoming

#3937

K

SAVAGE
Savage Services Corporation
Coal & Power Services Group
2025 East 5000 South
Box 1001
Price, UT 84501

(435) 637-5664
Fax (435) 637-3418

Mr. Daron Haddock
Permit Supervisor
Utah Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Re: Relocation of Truck Dump and Culverts
Savage Service Corporation
Savage Coal Terminal
C/007/0022 , Task #3937

Dear Mr. Haddock:

Enclosed are 4 clean copies of the above referenced amendment as requested in your conditional approval letter of November 2, 2011. If you have any questions, or need additional information, please let me know.

Sincerely,

Garth Nielsen
General Manager

Cc: Pete Hess, PFO
Dan Guy
File

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JAN 09 2012
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APPLICATION FOR COAL PERMIT PROCESSING

Permit Change ☒ New Permit ☐ Renewal ☐ Exploration ☐ Bond Release ☐ Transfer ☐

Permittee: Savage Services Corporation
Mine: Savage Coal Terminal
Permit Number: C/007/022
Title: Relocation of Truck Dump and Culverts

Description, Include reason for application and timing required to implement:
To update relocation of truck dump and culverts. Clean copies per conditional approval.

Instructions: If you answer yes to any of the first eight questions, this application may require Public Notice publication.

☐ Yes ☒ No 1. Change in the size of the Permit Area? Acres: _____ Disturbed Area: _____ ☐ increase ☐ decrease.
☐ Yes ☒ No 2. Is the application submitted as a result of a Division Order? DO# _____
☐ Yes ☒ No 3. Does the application include operations outside a previously identified Cumulative Hydrologic Impact Area?
☐ Yes ☒ No 4. Does the application include operations in hydrologic basins other than as currently approved?
☐ Yes ☒ No 5. Does the application result from cancellation, reduction or increase of insurance or reclamation bond?
☐ Yes ☒ No 6. Does the application require or include public notice publication?
☐ Yes ☒ No 7. Does the application require or include ownership, control, right-of-entry, or compliance information?
☐ Yes ☒ No 8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
☐ Yes ☒ No 9. Is the application submitted as a result of a Violation? NOV # _____
☒ Yes ☐ No 10. Is the application submitted as a result of other laws or regulations or policies?
Explain: Clean Copies per Conditional Approval.
☐ Yes ☒ No 11. Does the application affect the surface landowner or change the post mining land use?
☐ Yes ☒ No 12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)
☐ Yes ☒ No 13. Does the application require or include collection and reporting of any baseline information?
☐ Yes ☒ No 14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
☐ Yes ☒ No 15. Does the application require or include soil removal, storage or placement?
☐ Yes ☒ No 16. Does the application require or include vegetation monitoring, removal or revegetation activities?
☒ Yes ☐ No 17. Does the application require or include construction, modification, or removal of surface facilities?
☒ Yes ☐ No 18. Does the application require or include water monitoring, sediment or drainage control measures?
☒ Yes ☐ No 19. Does the application require or include certified designs, maps or calculation?
☐ Yes ☒ No 20. Does the application require or include subsidence control or monitoring?
☐ Yes ☒ No 21. Have reclamation costs for bonding been provided?
☐ Yes ☒ No 22. Does the application involve a perennial stream, a stream buffer zone or discharges to a stream?
☐ Yes ☒ No 23. Does the application affect permits issued by other agencies or permits issued to other entities?
☐ Yes ☒ No 24. Does the application include confidential information and is it clearly marked and separated in the plan?

Please attach three (3) review copies of the application. If the mine is on or adjacent to Forest Service land please submit four (4) copies, thank you. (These numbers include a copy for the Price Field Office)

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

Garth Nielsen	General Manager	1-6-12	
Print Name	Position	Date	Signature (Right-click above choose certify then have notary sign below)

Subscribed and sworn to before me this 6 day of Jan, 2012

Notary Public: Terri L. Allred, state of Utah.

My commission Expires: 5-10-2015
Commission Number: 609553
Address: 1179 East Main
City: Price State: Ut Zip: 84501

} ss:

TERRI L ALLRED
NOTARY PUBLIC • STATE OF UTAH
COMMISSION# 609553
COMM. EXP. 05-10-2015

For Office Use Only:	Assigned Tracking Number:	Received by Oil, Gas & Mining
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Form DOGM- C1 (Revised December 10, 2007)

APPLICATION FOR COAL PERMIT PROCESSING
Detailed Schedule Of Changes to the Mining And Reclamation Plan

Permittee: Savage Services Corporation
Mine: Savage Coal Terminal
Title: Relocation of Truck Dump and Culverts
Permit Number: C/007/022

Provide a detailed listing of all changes to the Mining and Reclamation Plan, which is required as a result of this proposed permit application. Individually list all maps and drawings that are added, replaced, or removed from the plan. Include changes to the table of contents, section of the plan, or other information as needed to specifically locate, identify and revise the existing Mining and Reclamation Plan. Include page, section and drawing number as part of the description.

			DESCRIPTION OF MAP, TEXT, OR MATERIAL TO BE CHANGED
☐ Add	☒ Replace	☐ Remove	Plate 5-2
☐ Add	☒ Replace	☐ Remove	Plate 7-2
☐ Add	☒ Replace	☐ Remove	Table 7-25 (Page 109)
☐ Add	☒ Replace	☐ Remove	Table 7-26 (Page 110)
☐ Add	☐ Replace	☐ Remove	
☐ Add	☐ Replace	☐ Remove	
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☐ Add	☐ Replace	☐ Remove	

Any other specific or special instruction required for insertion of this proposal into the Mining and Reclamation Plan.

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TABLE 7-25
CULVERT DESIGN SPECIFICATIONS

Culvert Number	Discharge (cfs)	Diameter (ft)	Length (ft)	Normal Depth	Velocity (ft/sec)
C-1	0.81	1.0	30	0.45	2.38
C-1a	0.81	2.0	55	0.45	2.38
C-2	0.98	1.5	400	0.35	2.80
C-3	3.70	(2) 1.5	60	0.59	2.90
C-4	1.11	1.5	100	0.40	2.05
C-5	9.68	2.0	260	1.35	3.59
C-6	0.80	1.5	30	0.38	2.20
C-6A	0.80	2.0	300	0.38	2.20
C-7	10.56	2.0	40	1.43	4.40
C-8	0.77	1.5	60	0.38	2.20
C-9	1.44	1.5	50	0.51	2.70
C-10	11.97	2.0	40	1.60	4.44
C-12	5.11	1.5	40	1.11	3.64
C-13	5.11	1.5	130	1.17	4.73
C-13A	5.11	1.5	60	1.11	3.64
C-13B	5.11	1.50	100	1.11	3.64
C-15	20.50	2.0	30	2.87*	7.60*
C-17	0.80	1.5	160	0.46	2.20
C-18	0.80	1.5	100	0.46	2.20
C-19	0.22	1.0	50	0.28	1.19
C-20	0.22	1.0	50	0.28	1.19
C-21	1.11	2.0	200	0.34	2.05
C-22	13.88	2.0	175	2.10*	11.49
C-23	0.15	1.0	45	0.20	1.50
C-24	1.44	1.5	40	0.51	2.70
C-25	1.11	1.5	60	0.40	2.05
C-25A	1.11	1.5	50	0.40	2.05
C-26	1.44	1.5	50	0.51	2.70
C-27	1.44	1.5	50	0.51	2.70
C-28	1.44	1.5	50	0.51	2.70
C-29	0.48	1.5	40	0.44	3.11

*Head Water Depth = 3.50 ft.

***Erosion to be minimized by the use of 9" med. diam. rip-rap at the culvert outlet.

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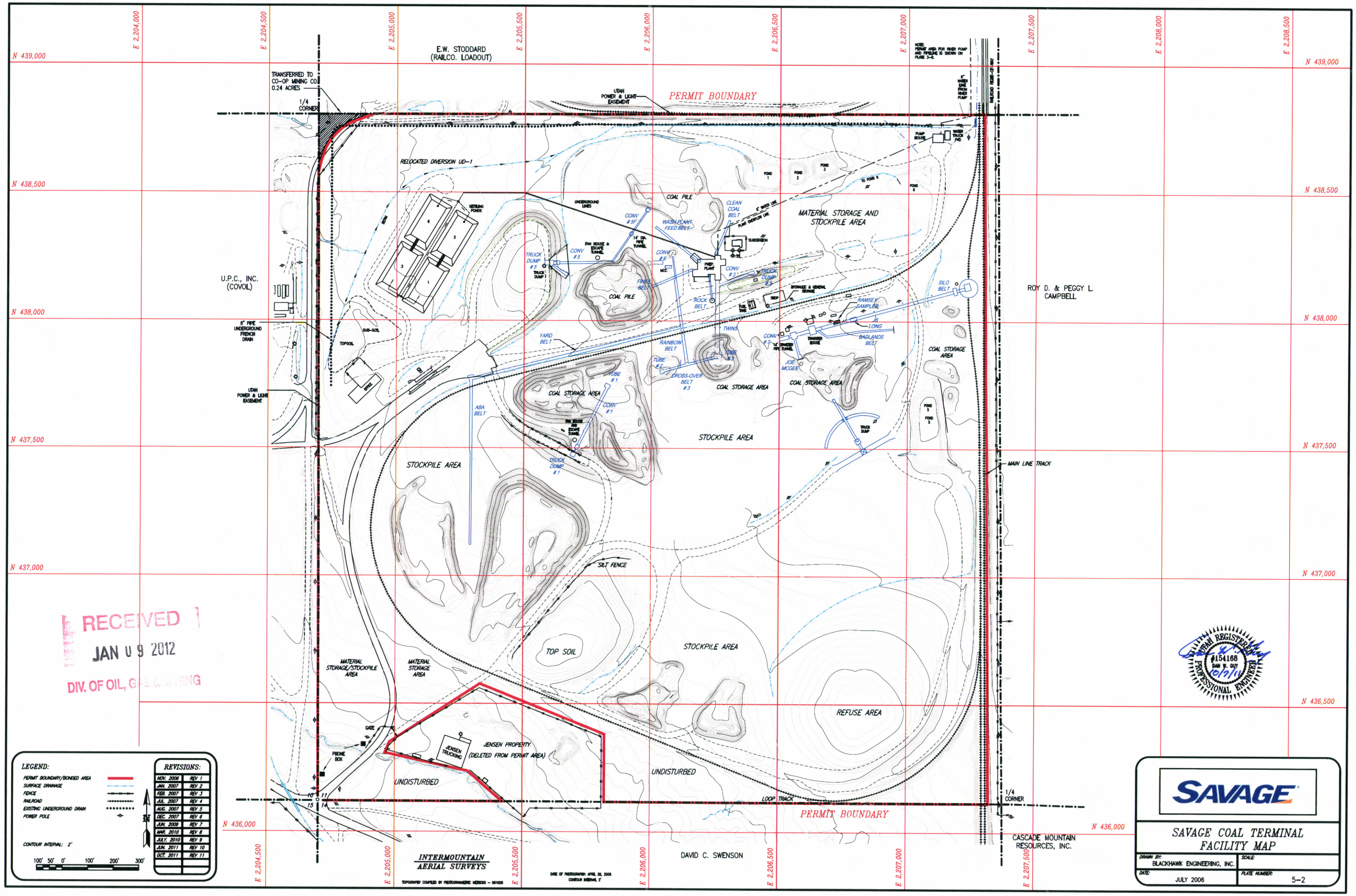
TABLE 7-26 REFUSE PILE DRAINAGE		
Design Details		
Structure	CD-13	CD-7
Drainage Area (acres)	4.16	7.18
Precipitation: 100 year - 6 hour (inches)	1.91	1.91
Peak Discharge - Q100 (cfs)	5.20	8.98
Slope (%)	2.50	3.00
Bottom Width (feet)	0.00	2.00
Side Slope (H:V)	1:1	1:1
Manning's No.	0.035	0.035
Velocity (fps)	3.75	4.57
Runoff Curve No.	87	87
Rip-Rap Required (Y/N)	N*	N*
Flow Depth (feet)	1.18	0.72
Time of Conc. (hours)	0.02	0.02

* Channels will be constructed within Mancos Shale or compacted refuse where erosive velocities are estimated at 6 fps or greater ("Applied Hydrology and Sedimentology for Disturbed Areas," Table 3-2, p. 162, Barfield, Warner & Haan, 1973). If erosion becomes evident, channels will be rip-rapped as necessary.


E.W. STODDARD
(RAILCO. LOADOUT)
TRANSFERRED TO
CO-OP MINING CO.
0.24 ACRES
1/4
CORNER
UTAH
POWER & LIGHT
EASEMENT
PERMIT BOUNDARY
RELOCATED DIVERSION UD-1
U.P.C., INC.
(COVOL)
8" PIPE
UNDERGROUND
FRENCH
DRAIN
UTAH
POWER & LIGHT
EASEMENT
TOPSOIL
SUB-SOIL
SPRUCE
SETTLING
PONDS
UNDERGROUND
LINES
COAL PILE
CLEAN
COAL
BELT
WASH PLANT
FEED BELT
CONV
5F
CONV
5
TRUCK
DUMP
5
TRUCK
DUMP
FINES
BELT
PREP
PLANT
CONV
6
CONV
3
ROCK
BELT
TRUCK
DUMP
4
MATERIAL STORAGE AND
STOCKPILE AREA
POND
1
POND
2
POND
3
POND
4
POND
5
POND
6
PUMP
HOUSE
WATER
TRUCK
FILL
TO POND 6
SILO
BELT
ROY D. & PEGGY L.
CAMPBELL
RAMSEY
SAMPLER
LONG
BAGLANDS
BELT
TWINS
CONV
2
TRANSFER
HOUSE
JOE
MCGEE
COAL STORAGE
AREA
YARD
BELT
RAINBOW
BELT
TUBE
2
TUBE
3
CROSS-OVER
BELT
3
TUBE
1
CONV
1
ABA
BELT
TRUCK
DUMP
1
STOCKPILE AREA
MAIN LINE TRACK
SILT FENCE
TOP SOIL
REFUSE AREA
MATERIAL
STORAGE/STOCKPILE
AREA
MATERIAL
STORAGE
AREA
GATE
PHONE
BOX
JENSEN
TRUCKING
JENSEN PROPERTY
(DELETED FROM PERMIT AREA)
UNDISTURBED
LOOP TRACK
1/4
CORNER
CASCADE MOUNTAIN
RESOURCES, INC.
DAVID C. SWENSON
INTERMOUNTAIN
AERIAL SURVEYS
N 439,000
N 438,500
N 438,000
N 437,500
N 437,000
N 436,500
N 436,000
E 2,204,000
E 2,204,500
E 2,205,000
E 2,205,500
E 2,206,000
E 2,206,500
E 2,207,000
E 2,207,500
E 2,208,000
E 2,208,500
LEGEND:
PERMIT BOUNDARY/BONDED AREA
SURFACE DRAINAGE
FENCE
RAILROAD
EXISTING UNDERGROUND DRAIN
POWER POLE
CONTOUR INTERVAL: 2'
100' 50' 0' 100' 200' 300'
REVISIONS:
NOV. 2006 REV 1
JAN. 2007 REV 2
FEB. 2007 REV 3
JUL. 2007 REV 4
AUG. 2007 REV 5
DEC. 2007 REV 6
JUN. 2009 REV 7
MAR. 2010 REV 8
JULY. 2010 REV 9
JUN. 2011 REV 10
OCT. 2011 REV 11
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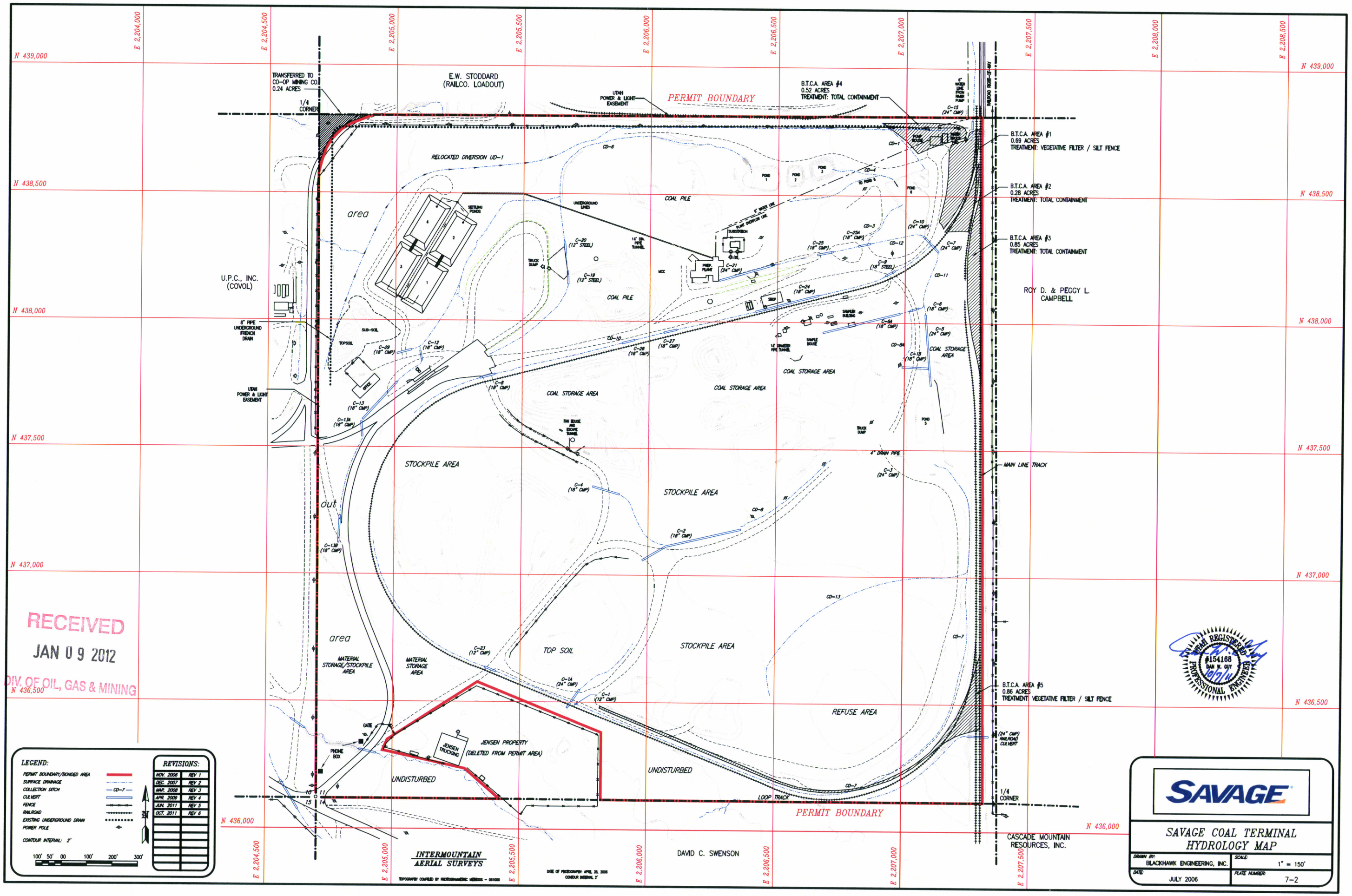
DIV. OF OIL, GAS & MINING
UTAH REGISTERED
#154168
DAN W. GUY
PROFESSIONAL ENGINEER
SAVAGE
SAVAGE COAL TERMINAL
FACILITY MAP
DRAWN BY:
BLACKHAWK ENGINEERING, INC.
SCALE:
DATE:
JULY 2006
PLATE NUMBER:
5-2



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