Incoming
C0150032
#3418
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OGMCOAL - Crandall pond cleaning-10046

From: Steve Christensen
To: OGMCOAL
Date: 12/29/2009 3:07 PM
Subject: Crandall pond cleaning-10046
Attachments: Sed pond re-certification.pdf

>>> "Shaver, Dave" <dshaver@coalsource.com> 12/18/2009 12:23 PM >>>

Gentlemen...Attached is a new packet of information regarding the Crandall pond cleanout. The cross section drawing was inadvertently omitted from the previous email, which you may disregard.

Dave

UtahAmerican Energy, Inc.
2009 Crandall Canyon Mines
~~2008~~ Annual Pond Certification Report

SUPPLEMENTAL POND CERTIFICATION - POST CLEANING

POND: Sediment Pond LOCATION: Crandall Canyon Mines

IMPOUNDMENTS	
(1) Stability	Slopes Stable.
(2) Structural Weakness / Erosion	None Noted.
(3) Potential Safety Hazards	None Noted.
(4) Depth of Impounded Water	0' (pond recently cleaned)
(5) Existing Storage Capacity	3.5 ac-ft (100%)
(6) Monitoring Process	U.P.D.E.S. discharge. Quarterly Inspection.

SEDIMENT PONDS ONLY	
(7) Sediment Accumulation (Elevation)	7763.75 (lowest point)
(8) Sediment Cleanout Level (Elevation)	7769.00'
(9) Principle Spillway (Elevation)	7780.81'
(10) Emergency Spillway (Elevation)	7781.81'
(11) Existing Sediment Capacity (To Cleanout)	0.30 acre-ft based on survey of 12/16/200

GENERAL	
(12) Comments / Recommendations	Pond cleaned December, 2009 No Discharge.

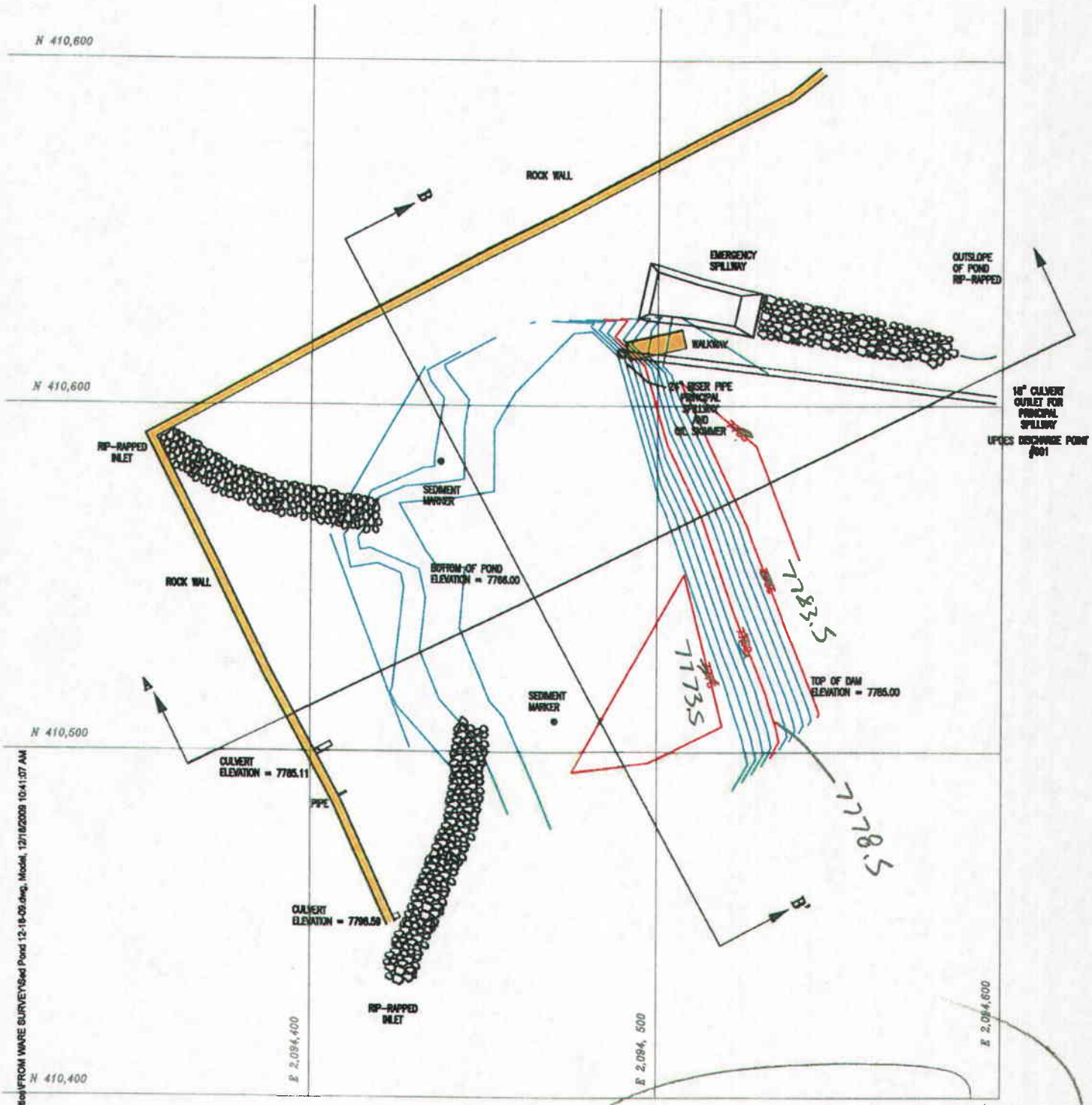
STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearance of instability, structural weakness or other hazardous conditions of the structure affecting stability.

David W. Hibbs
(Signature)

12/18/09
(Date)

REGISTERED PROFESSIONAL ENGINEER
6449561
DAVID W. HIBBS
12/18/09
STATE OF UTAH



pre-clearing contours
July 2009

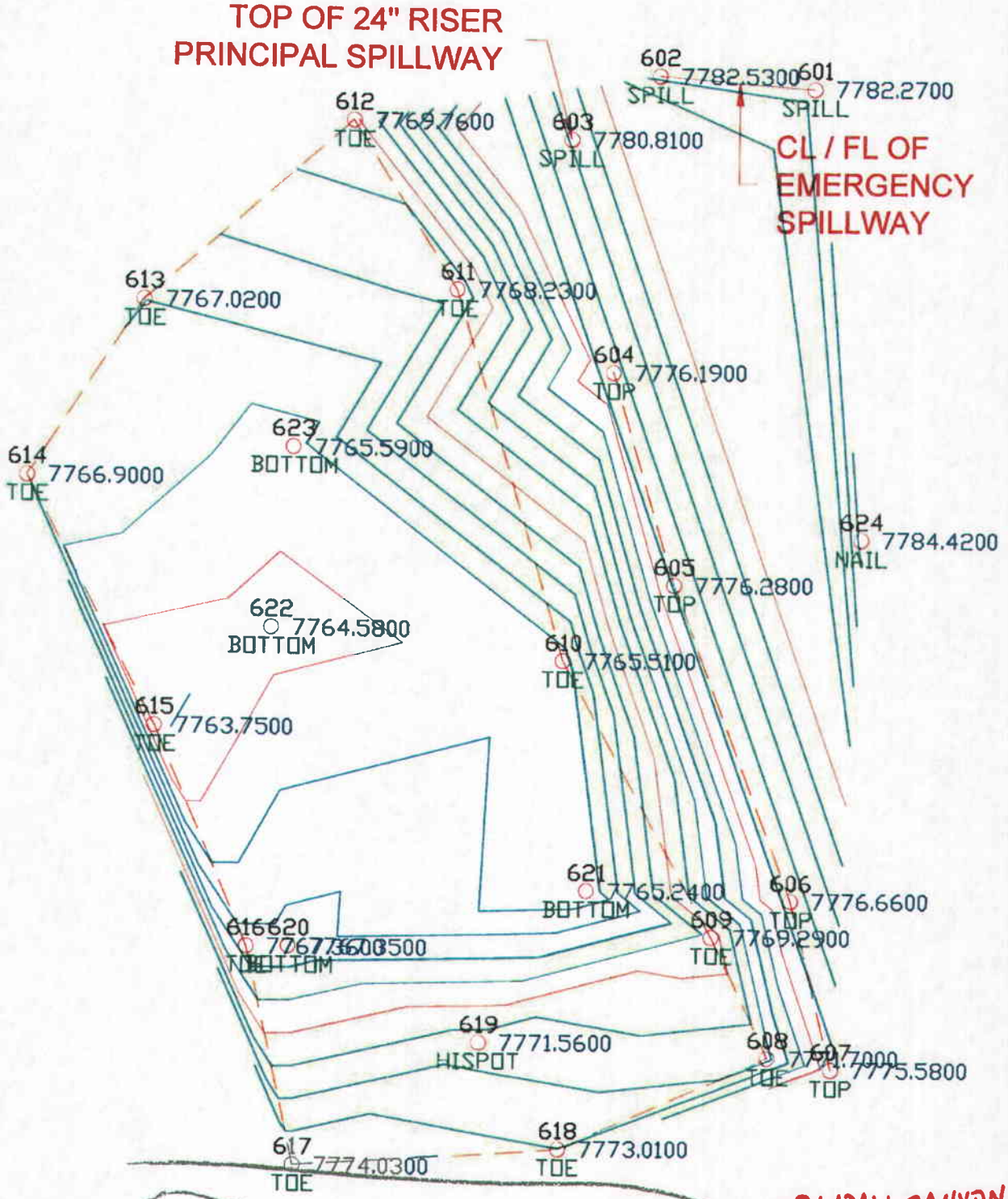
AS-BUILT SEDIMENT POND:

LOCATION:	ELEVATION:	VOLUME:
BOTTOM OF POND:	7766.00	0.000 AC. FT.
SEDIMENT CLEANOUT LEVEL:	7769.00	0.290 AC. FT.
MAXIMUM SEDIMENT LEVEL:	7770.00	0.437 AC. FT.
PRINCIPAL SPILLWAY:	7780.81	2.513 AC. FT.
EMERGENCY SPILLWAY:	7781.81	3.936 AC. FT.

N

CONTOUR INTERVAL = 1'
SCALE: 1" = 40'

G:\Current Drawings\MRP Maps\Crandall Canyon\Current\CranDall Portal Reclamation\FROM WARE SURVEY\Sed Pond 12-18-09.dwg, Model, 12/18/2009 10:41:07 AM

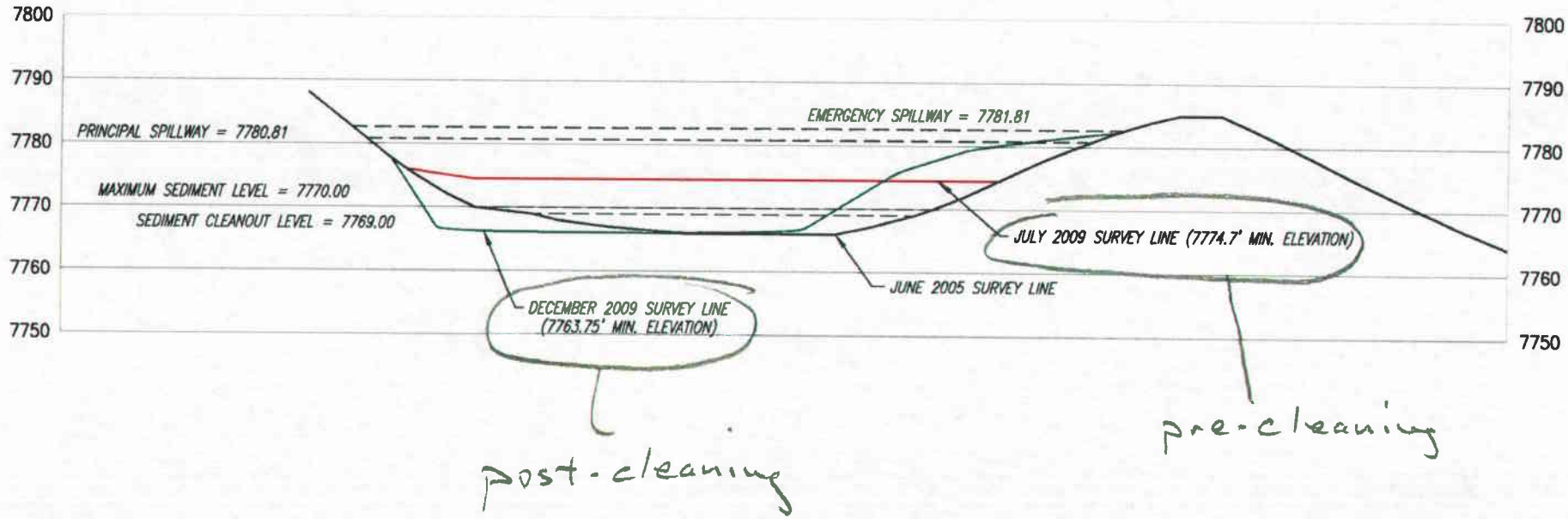


Post clearing contours
Dec 16, 2009

7763.75

CRANDALL CANYON
SEDIMENT POND SURVEY
DATE: 12/11/09
SCALE: 1":20'

G:\Current Drawings\WRP Maps\Crandall Canyon\Current\Final Reclamation\From Ware Surveying\POND with Points 12-17-08.dwg, Model, 12/16/2009 7:47:09 AM



UtahAmerican Energy, Inc.

794 NORTH "C" CANYON ROAD, EAST CARBON, UTAH 84520
P.O. BOX 1077, PRICE, UTAH 84501
PHONE: (435) 888-4000 FAX: (435) 888-4002

SEDIMENT POND CROSS SECTION

Crandall Canyon Mines
Crandall Canyon
P.O. BOX 1077
PRICE, UTAH

MSHA ID #42-01715

DRAWN BY	PJ	SCALE	NONE
APPROVED BY	DS	DATE	18 DEC. 2009
SHEET			1 of 1

G:\Current Drawings\MRP Maps\Crandall Canyon\Current\CranDall Portal Reclamation\FROM WARE SURVEY\Sed Pond 12-18-09.dwg, Model, 12/18/2009 10:43:25 AM

Volume Report Fri Dec 18 10:19:23

Comparing Grid: G:/Current Drawings/MRP Maps/Crandall Canyon/Current/Final Recla
and Grid: G:/Current Drawings/MRP Maps/Crandall Canyon/Current/Final Recla
Grid corner locations: 2095225.07,411260.66 to 2095399.07,411434.66
Grid resolution X: 174, Y: 174 Grid cell size X: 1.00, Y: 1.00
Area in Cut : 10,691.8 S.F., 0.25 Acres
Area in Fill: 1,554.2 S.F., 0.04 Acres
Total inclusion area: 12,246.0 S.F., 0.28 Acres
Cut to Fill ratio: 55.68
Average Cut Depth: 5.39 Average Fill Depth: 0.67
Max Cut Depth: 10.77 Max Fill Depth: 1.99
Cut (C.Y.) / Area (acres): 7592.33
Fill (C.Y.) / Area (acres): 136.35
Cut volume: 57,629.5 C.F., 2,134.43 C.Y.
Fill volume: 1,035.0 C.F., 38.33 C.Y.

computer generated
volume difference
(amount cleaned out)
based on pre and post
cleaning surveys

2,134 cubic yards
material cleaned out

Volume Report

Fri Dec 18 11:14:53

Comparing Grid: G:/Current Drawings/MRP Maps/Crandall Canyon/Current/Final Recla
and Grid: G:/Current Drawings/MRP Maps/Crandall Canyon/Current/Final Recla
Grid corner locations: 2095225.07,411260.66 to 2095399.07,411434.66
Grid resolution X: 174, Y: 174 Grid cell size X: 1.00, Y: 1.00
Area in Cut : 5,021.9 S.F., 0.12 Acres
Area in Fill: 335.1 S.F., 0.01 Acres
Total inclusion area: 5,357.0 S.F., 0.12 Acres
Cut to Fill ratio: 35.35
Average Cut Depth: 2.61 Average Fill Depth: 1.11
Max Cut Depth: 5.00 Max Fill Depth: 3.60
Cut (C.Y.) / Area (acres): 3944.10
Fill (C.Y.) / Area (acres): 111.56
Cut volume: 13,096.2 C.F., 485.04 C.Y. = 0.30 acre-ft
Fill volume: 370.4 C.F., 13.72 C.Y.

To 7769' clearcut level

Crandall Mine
Sediment Pond Load Count

Date	Loa	Machine	Operator	Nature of Work	Rate	Total
11/18/09				**Wednesday**		
	17	Rock Trk	Tim H	Hauled 17 loads to holding area		
11/19/09				**Thursday**		
	14	Rock Trk	Tim H	Hauled 14 loads to holding area		
11/20/09				**Friday**		
	17	Rock Trk	Tim H	Hauled 17 loads to holding area		
11/23/09				**Monday**		
	15	Rock Trk	Tim H	Hauled 15 loads		
11/24/09				**Tuesday**		
	16	Rock Trk	Tim H	Hauled 16 loads to holding area		
11/25/09				**Wednesday**		
	16	Rock Trk	Tim H	Hauled 16 loads to holding area		
11/30/09				**Monday**		
	16	Rock Trk	Tim H	Hauled 16 loads to holding area		
12/03/09				**Thursday**		
	16	Rock Trk	Tim H	Hauled 16 loads to holding area		
12/04/09				**Friday**		
	12	Rock Trk	Tim H	Hauled 12 loads of mud		
12/11/09				**Friday**		
	21	Rock Trk	Tim H	Hauled 21 loads to holding area		
12/14/09				**Monday**		
	18	Rock Trk	Tim H	Hauled 18 loaded of material		
12/15/09				**Tuesday**		
	20	Rock Trk	Tim H	Hauled 20 loads from pond		
	198			**Total**		

Scamp Excavation load counts