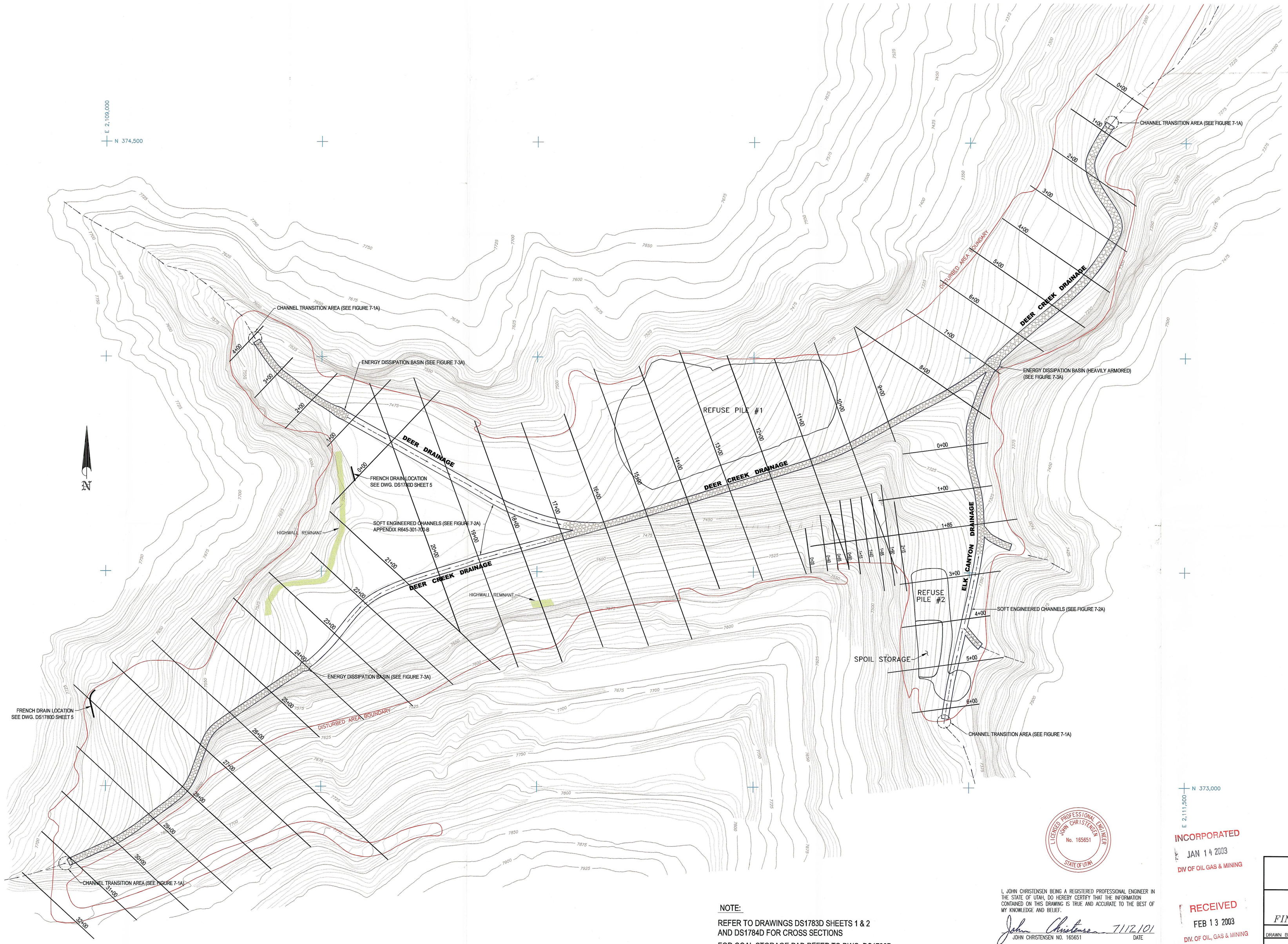

MASS BALANCE – DEER CREEK CANYON		
STATION	CUT VOLUME EXCAVATION (YDS.^{3})	FILL VOLUME REQUIRED (YDS.^{3})
32+00	0.00	0.00
31+12	167.69	0.00
31+00/30+50	2,685.56	44.44
30+00	2,324.63	782.41
29+00	2,983.33	3,261.67
28+00	3,075.93	2,965.37
27+00	2,579.44	745.56
26+00	2,452.59	3,462.22
25+00	3,252.59	4,958.70
24+00	7,383.70	4,328.33
23+00	7,434.44	6,346.67
22+00	4,182.41	5,582.78
21+00	8,831.07	5,808.95
20+00	7,266.30	2,928.33
19+00	9,185.93	2,497.22
18+00	8,754.63	1,781.11
17+00	6,877.78	4,015.19
16+00	7,186.11	5,960.93
15+00	9,766.11	4,947.22
14+00	10,307.22	4,134.81
13+00	6,389.26	5,279.81
12+00	2,230.19	9,770.93
11+00	2387.04	11,679.44
10+00	3,374.44	8,638.52
9+00	8,675.11	3,983.44
8+00	8,258.52	3,939.81
7+00	6,524.26	2,921.30
6+00	3,476.85	5,581.85
5+00	3,094.81	5,166.85
4+00	2,967.41	1,966.48
3+00/2+50	2,925.37	163.8
2+00	3,242.22	0.00
1+00	0.00	0.00
0+78	327.72	0.00
0+00	0.00	0.00
TOTAL	160,570.66	123,644.15

MASS BALANCE – DEER CANYON		
STATION	CUT VOLUME EXCAVATION (YDS.^{3})	FILL VOLUME REQUIRED (YDS.^{3})
4+00	0.00	0.00
3+89/3+50	7.75	442.59
3+00	338.52	1,364.63
2+00	774.26	1,925.37
1+00	1,640.74	2,112.41
0+00	0.00	0.00
TOTAL	2,761.26	5,845.00

MASS BALANCE – ELK CANYON		
STATION	CUT VOLUME EXCAVATION (YDS.^{3})	FILL VOLUME REQUIRED (YDS.^{3})
6+23	181.36	0.00
6+00	2,578.52	560.00
5+00	3,540.56	941.11
4+00	2,919.81	1,116.67
3+00	1999.26	6,433.70
1+85	935.56	8,014.81
1+00	302.78	4,377.78
0+00	0.00	0.00
0–65	128.19	1,339.80
TOTAL	12,586.04	22,783.80

COAL STORAGE PAD – SPOIL		
STATION	CUT VOLUME EXCAVATION (YDS.^{3})	FILL VOLUME OF PILE (YDS.^{3})
TOTAL	0.00	4,006.11

GRAND TOTAL	CUT VOLUME (YDS.^{3})	FILL VOLUME (YDS.^{3})
	175,917.96	156,279.06

EXCESS VOLUME OF FILL MATERIAL = 19,638.90 YDS^3
COAL BIN STORAGE CAPACITY = 28,371.30 YDS^3
TOPSOIL EXCAVATION VOLUME (INCLUDED IN GRAND TOTAL CUT VOLUME) = 58,891.08 YDS^3
CONCRETE STORAGE VOLUME @ 110lbs/ft^3 = 7726 YDS^3

NOTE:

REFER TO DRAWINGS DS1783D SHEETS 1 & 2
AND DS1784D FOR CROSS SECTIONS

FOR COAL STORAGE PAD REFER TO DWG. DS1796D

LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN
No. 165651
STATE OF UTAH

I, JOHN CHRISTENSEN BEING A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF UTAH, DO HEREBY CERTIFY THAT THE INFORMATION CONTAINED ON THIS DRAWING IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

John Christensen 7/12/01
JOHN CHRISTENSEN NO. 165651 DATE

INCORPORATED
JAN 14 2003
DIV OF OIL GAS & MINING

RECEIVED
FEB 13 2003
DIV. OF OIL, GAS & MINING

CAD FILE NAME/DISK#: USERS\AGL\DC\FINALREC\DS17820.DWG

ENERGY WEST
MINING COMPANY
HUNTINGTON, UTAH 84528

DEER CREEK MINE
DISTURBED AREA
FINAL RECLAMATION CONTOUR MAP

DRAWN BY: K. LARSEN		DS1782D	
SCALE: 1" = 100'		DRAWING #:	
DATE: FEBRUARY 8, 2001		SHEET 1 OF 1	REV.