DATE	REVISIONS	BY	CHK.
4-4-82	ADDED GASOLINE STORAGE TANK	LJG	
1-29-87	ADDED OIL STORAGE SHED & ANTIFREEZE TANK	CBW	
4-4-88	ADDED QUALITATIVE AND QUANTITATIVE DATA FOR 2001	KJL	
2-23-00	ADDED QUALITATIVE AND QUANTITATIVE DATA	TD	
6-14-99	CONVERTED DRAWING TO AUTOCAD	KJL	
2-23-98	REVISED TO REFLECT CURRENT CONDITIONS	KJL	
2-4-98	REVISED TO REFLECT CURRENT CONDITIONS	KJL	
5-16-96	CHANGED NOTE EAST VAL ACCESS ROAD TO EAST VAL ACCESS TRAIL	KJL	
3-26-96	REVISED TO REFLECT CURRENT CONDITIONS	KJL	
12-20-95	ADDED QUALITATIVE AND QUANTITATIVE DATA FOR 2002 (PUMPHOUSE AREA ONLY)	KJL	

CONTOUR INTERVAL 5'

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 3/20/03
JOHN CHRISTENSEN NO. 166651 DATE

STATE OF UTAH
No. 166651
LICENSED PROFESSIONAL ENGINEER
JOHN CHRISTENSEN

CAD FILE NAME/DISK# U:\ESRS\ALL\ESCAMPS\CM-10388-DS.DWG

ENERGY WEST MINING COMPANY
HUNTINGTON, UTAH 84528

DES-BEE-DOVE SURFACE FACILITIES 2002 VEGETATION MONITORING

DRAWN BY: T. DAVIS | DRAWING #: CM-10388-DS
SCALE: 1"=100' | DATE: JUNE 14, 1999 | SHEET 1 OF 2 | REV

NOTE:
DES-BEE-DOVE MINE SURFACE FACILITIES AREA IS CURRENTLY UNDERGOING FINAL RECLAMATION TO BE COMPLETED IN THE SPRING OF 2003

NOTE:
QUALITATIVE AND QUANTITATIVE DATA PROVIDED BY MT. NEBO SCIENTIFIC, INC.

Site Name: TIPPLE SLOPE '88	Quantitative					Cover							% Composition								NOT SAMPLED
Exposure: V	Slope	Animal Use	Erosion			Rock	Bareground	Litter	Total Living				Shrubs	Forbs	Grasses	Density	Productivity				
Year / Date																					
1999 SEPT. 20-24	40-69	N	S			-	-	-	-				-	-	-	-	-				
2000 AUG. 28-SEPT. 2	40-69	N	S			-	-	-	-				-	-	-	-	-				

Site Name: DESERET ROAD BERM '88	Quantitative					Cover							% Composition								NOT SAMPLED
Exposure: E	Slope	Animal Use	Erosion			Rock	Bareground	Litter	Total Living				Shrubs	Forbs	Grasses	Density	Productivity				
Year / Date																					
1999 SEPT. 20-24	6-10	N	S			-	-	-	-				-	-	-	-	-				
2000 AUG. 28-SEPT. 2	6-10	N	S			-	-	-	-				-	-	-	-	-				

Site Name: PORTAL ROAD BERM '88	Quantitative					Cover							% Composition								NOT SAMPLED
Exposure: SW	Slope	Animal Use	Erosion			Rock	Bareground	Litter	Total Living				Shrubs	Forbs	Grasses	Density	Productivity				
Year / Date																					
1999 SEPT. 20-24	30'	S	S			-	-	-	-				-	-	-	-	-				
2000 AUG. 28-SEPT. 2	30'	S	S			-	-	-	-				-	-	-	-	-				

Site Name: BATHHOUSE SLOPE '84	Quantitative					Cover							% Composition								NOT SAMPLED
Exposure: V	Slope	Animal Use	Erosion			Rock	Bareground	Litter	Total Living				Shrubs	Forbs	Grasses	Density	Productivity				
Year / Date																					
1999 SEPT. 20-24	20'	S	S			-	-	-	-				-	-	-	-	-				
2000 AUG. 28-SEPT. 2	20'	S	S			-	-	-	-				-	-	-	-	-				

Site Name: MATERIAL YARD SLOPE '84	Quantitative					Cover							% Composition								NOT SAMPLED
Exposure: SE	Slope	Animal Use	Erosion			Rock	Bareground	Litter	Total Living				Shrubs	Forbs	Grasses	Density	Productivity				
Year / Date																					
1999 SEPT. 20-24	20-25	N	N			-	-	-	-				-	-	-	-	-				
2000 AUG. 28-SEPT. 2	20-25	N	N			-	-	-	-				-	-	-	-	-				

Site Name: RESEEDED BEEHIVE SLOPE JAN. '97	Quantitative					Cover							% Composition								NOT SAMPLED
Exposure: SE	Slope	Animal Use	Erosion			Rock	Bareground	Litter	Total Living				Shrubs	Forbs	Grasses	Density	Productivity				
Year / Date																					
1999 SEPT. 20-24	20-30	N	N			-	-	-	-				-	-	-	-	-				
2000 AUG. 28-SEPT. 2	20-30	N	N			-	-	-	-				-	-	-	-	-				

Site Name: BEEHIVE YARD SLOPE '88	Quantitative					Cover							% Composition								NOT SAMPLED
Exposure: SE	Slope	Animal Use	Erosion			Rock	Bareground	Litter	Total Living				Shrubs	Forbs	Grasses	Density	Productivity				
Year / Date																					
1999 SEPT. 20-24	20-30	N	N			-	-	-	-				-	-	-	-	-				
2000 AUG. 28-SEPT. 2	20-30	N	N			-	-	-	-				-	-	-	-	-				

Site Name: BEEHIVE SUBSTATION SLOPE '88	Quantitative					Cover							% Composition								NOT SAMPLED
Exposure: S	Slope	Animal Use	Erosion			Rock	Bareground	Litter	Total Living				Shrubs	Forbs	Grasses	Density	Productivity				
Year / Date																					
1999 SEPT. 20-24	30'	S	S			-	-	-	-				-	-	-	-	-				
2000 AUG. 28-SEPT. 2	30'	S	S			-	-	-	-				-	-	-	-	-				

Site Name: BEEHIVE ROAD BERM '88	Quantitative					Cover							% Composition								NOT SAMPLED
Exposure: V	Slope	Animal Use	Erosion			Rock	Bareground	Litter	Total Living				Shrubs	Forbs	Grasses	Density	Productivity				
Year / Date																					
1999 SEPT. 20-24	30'	N	N			-	-	-	-				-	-	-	-	-				
2000 AUG. 28-SEPT. 2	30'	N	N			-	-	-	-				-	-	-	-	-				

Site Name: BATHHOUSE ROAD BERM '88	Quantitative					Cover							% Composition								NOT SAMPLED
Exposure: SW	Slope	Animal Use	Erosion			Rock	Bareground	Litter	Total Living				Shrubs	Forbs	Grasses	Density	Productivity				
Year / Date																					
1999 SEPT. 20-24	30'	N	N			-	-	-	-				-	-	-	-	-				
2000 AUG. 28-SEPT. 2	30'	N	N			-	-	-	-				-	-	-	-	-				

Site Name: PUMPHOUSE (FINAL)	Quantitative					Cover							% Composition								NOT SAMPLED
Exposure: N	Slope	Animal Use	Erosion			Rock	Bareground	Litter	Total Living				Shrubs	Forbs	Grasses	Density	Productivity				
Year / Date																					
2001 SEPT. 10	2-14	S	N			24.30	7.40	37.20	31.30				6.15	61.14	30.70	-	-				
2002 SEPT. 9-14	2-14	S	N																		

NOTE:
QUALITATIVE AND QUANTITATIVE DATA PROVIDED BY MT. NEBO SCIENTIFIC, INC.

LEGEND

——— U.P.&L. CO. PERMIT BOUNDARY LINE

——— FEDERAL COAL LEASE BOUNDARY LINE

FOREST SERVICE SPECIAL USE PERMIT

PUMPHOUSE (FINAL)

Seeded Area

Seeded Area

ANL Site

ANL Site

STRAWBALES

DES-BEE-DOVE COAL MINE PERMIT BOUNDARY LINE

MAIN ACCESS & HAUL ROAD

PORTAL ACCESS ROAD

ACCESS ROAD TO BEEHIVE & LITTLE DOVE MINES

MANAGE DES BE DOVE BERMS

BATH HOUSE ROAD BERM '88

TIPPLE SLOPE '88

BATH HOUSE SLOPE '84

MATERIAL YARD SLOPE '84

BEEHIVE ROAD BERM '88

BEEHIVE SUBSTATION SLOPE '88

PORTAL ROAD BERM '88

DESERET ROAD BERM '88

RESEEDED BEEHIVE SLOPE JAN. '97

BEEHIVE YARD SLOPE '88

CSE-1240

CSE-1240-A

CSE-1240-B

CSE-1240-C

E 2,117,000

E 2,116,500

E 2,113,500

E 2,114,000

E 2,114,500

N 358,000

N 357,500

N 357,000

N 356,500

N 356,000

N 355,500

N 355,000