



COLORADO OPERATIONS

Henderson Mine and Mill
P.O. Box 68
Empire, CO 80438
Phone (303) 569-3221
Fax (303) 569-2830

January 8, 2016

Certified Mail Tracking: 7015 0640 0007 5449 4820

Mr. Peter Hays
Environmental Protection Specialist
1313 Sherman Street, Room 215
Denver, CO 80203

TR25
✓Complied!
✓0 Violations

RECEIVED

JAN 15 2016

DIVISION OF RECLAMATION
MINING AND SAFETY

**Re: Climax Molybdenum Company, Henderson Mill, Permit No. M-1977-342
Technical Revision No. 25, Ute Park Wellfield Project, Phase II**

Dear Mr. Hays,

Climax Molybdenum Company (CMC) is hereby submitting the final drawings for the approved extraction wells (MLEX-2 & MLEX-3) and appurtenant structures. Please find enclosed with this letter a record set of drawings for piping, associated electrical drawings and certification statements provided by the Engineers of Record, AJAX, Clear Creek Associates, Henderson and Henderson.

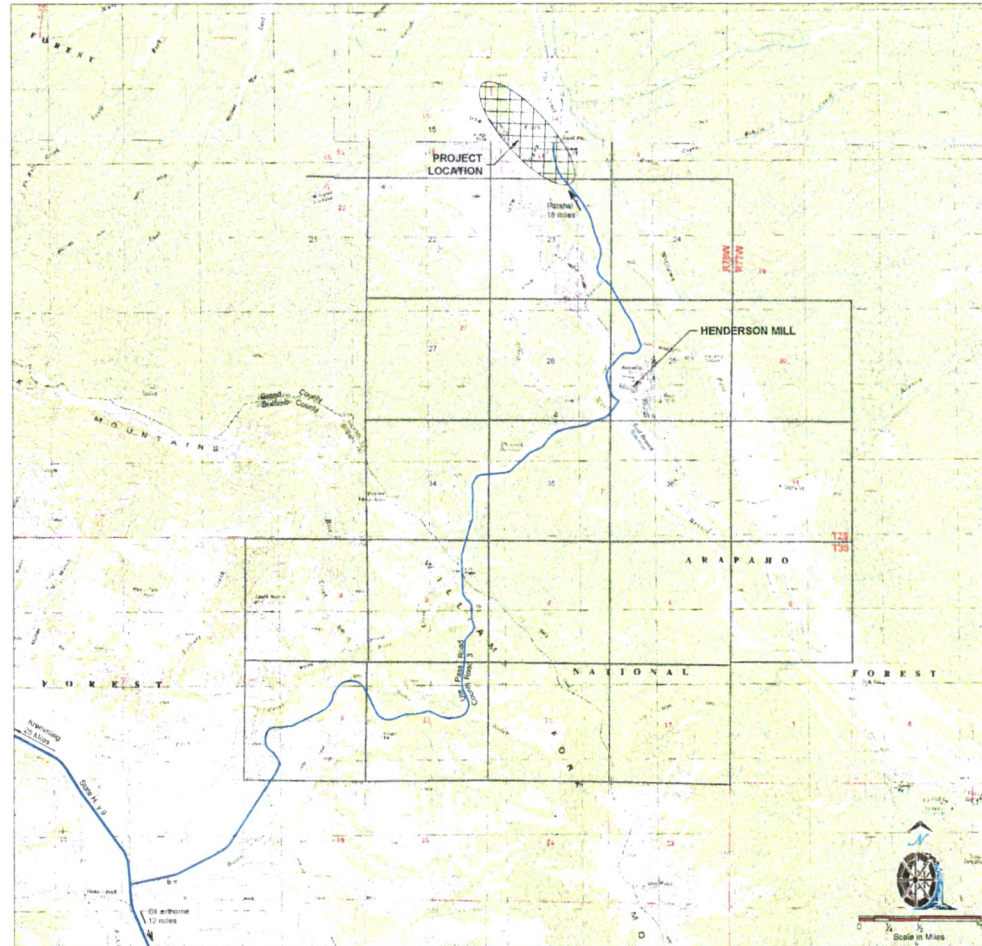
If you have any additional questions, concerns or require more information regarding this project, please feel free to contact me at (720) 942-3518 or Miguel Hamarat at (720) 942-3255.

Regards,



Tim Haynes
Sr. Environmental Engineer
Freeport-McMoRan Copper & Gold
Climax Molybdenum Company
Henderson Mill
19302 County Road 3
Parshall, CO 80468
720-942-3518
tim_haynes@fmi.com

CC: M. Hamarat (CMC), email



PROJECT LOCATION

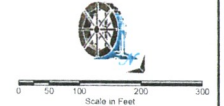
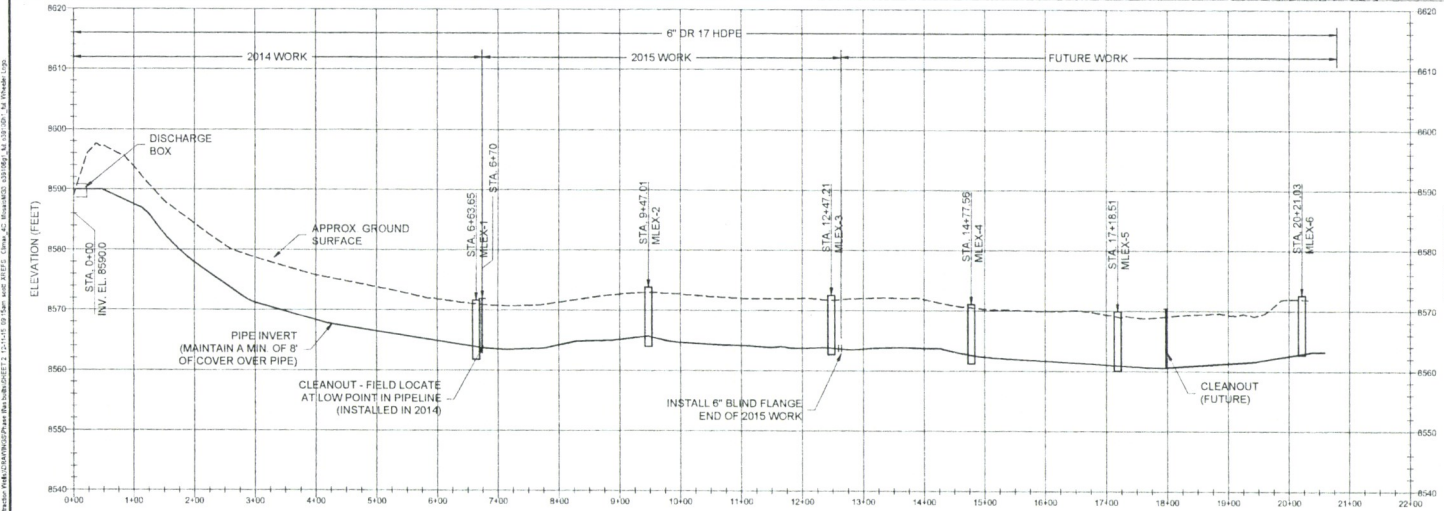
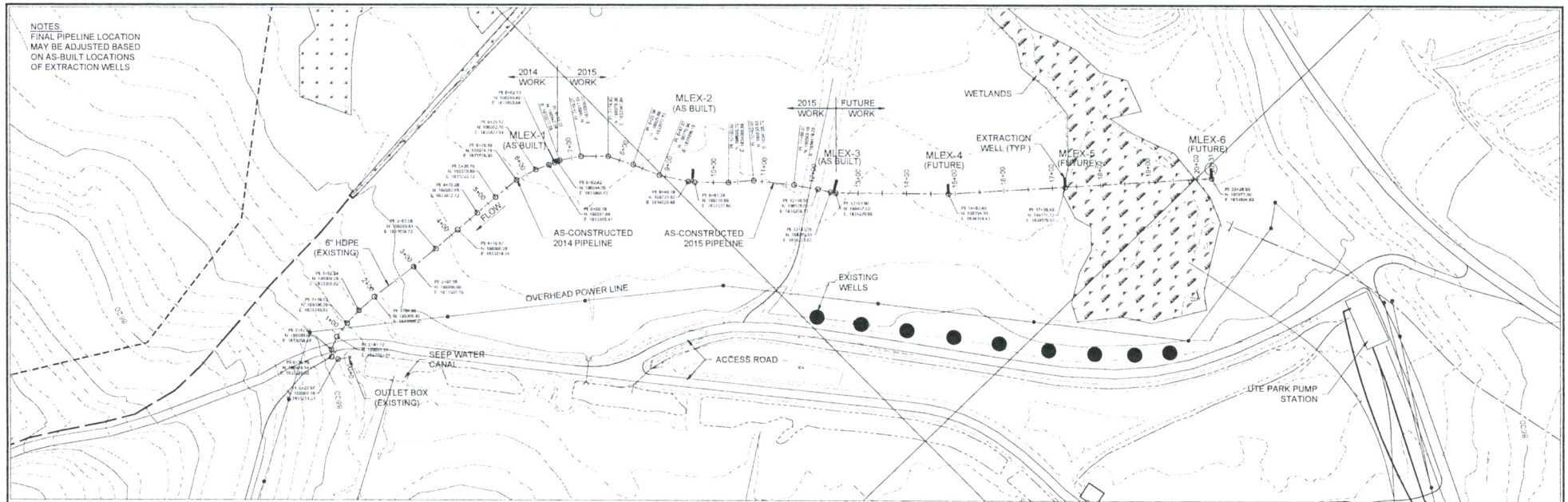
Henderson 1 Dam Extraction Well Project Seepwater Well Collection Pipeline - Phase II

for
Climax Molybdenum Company
Henderson Mill
by
W. W. Wheeler and Associates, Inc.


DRAWING LIST		
DRAWING NO.	DRAWING DESCRIPTION	REV. NO.
GENERAL		
SHEET 1	COVER SHEET AND DRAWING INDEX	1
SHEET 2	WELL FIELD PIPING SYSTEM - PLAN AND PROFILE	1
CIVIL		
SHEET 3	EXTRACTION WELL VAULT - GENERAL ARRANGEMENT	1
SHEET 4	WELL FIELD PIPING - TRENCH SECTION AND MISC. DETAILS	1
SHEET 5	MATERIAL LIST	1

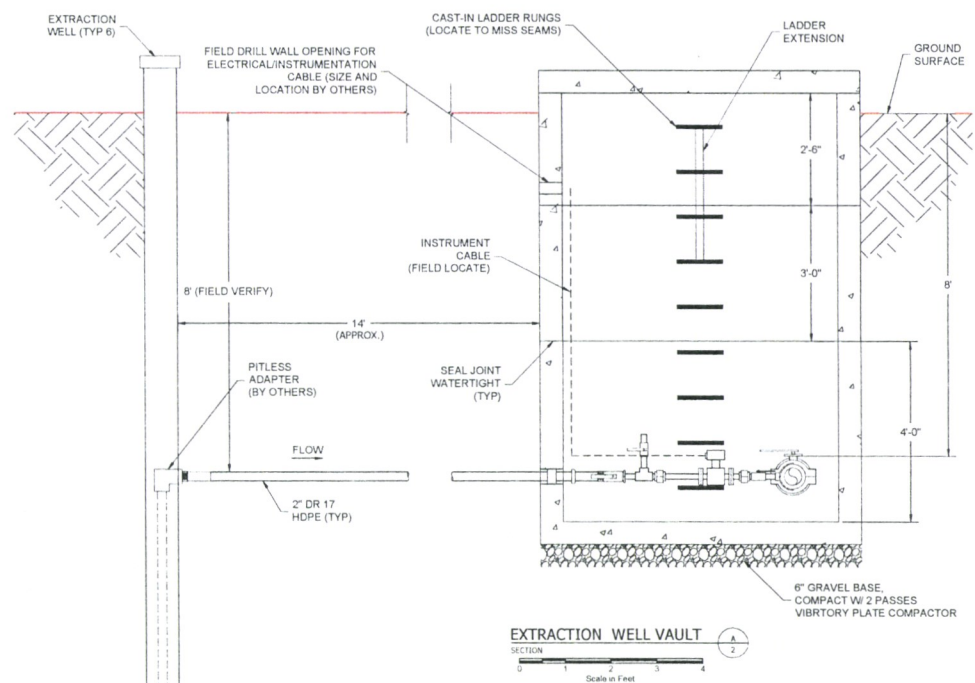
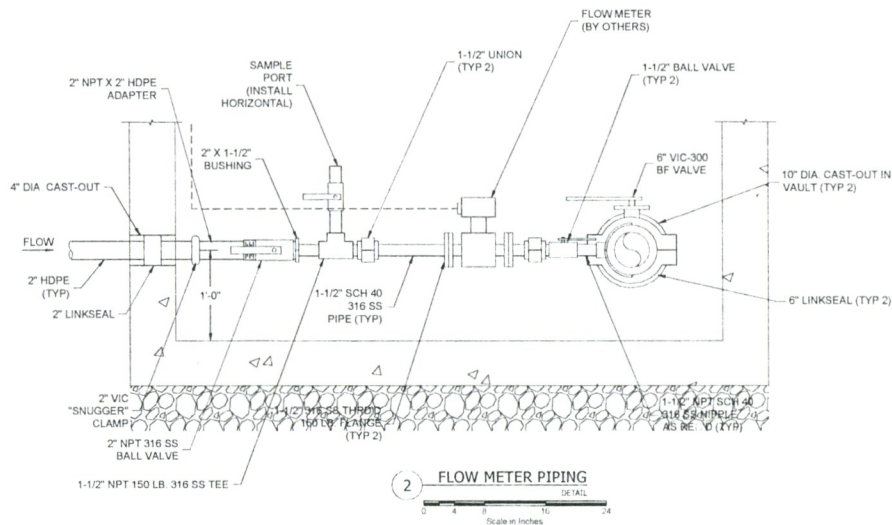
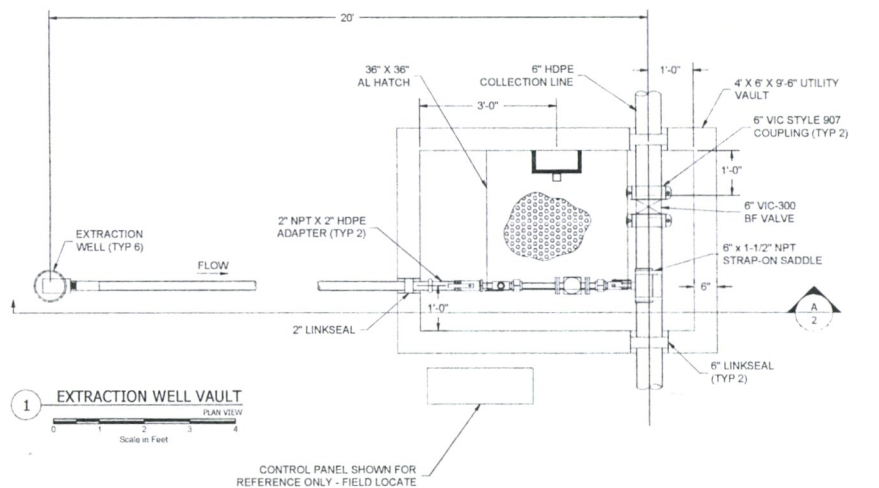
THE INFORMATION PROVIDED IN THESE "AS CONSTRUCTED" DRAWINGS CONTAINS INFORMATION PROVIDED, IN PART, BY OTHERS. W. W. WHEELER AND ASSOC. IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS INFORMATION.

17		DATE	08/15/15	BY	DCM	DESCRIPTION	"This drawing together with any and all additions, corrections, changes and alterations thereof is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company."		REFERENCE NUMBER	00000000	REVISIONS	17		DATE	08/15/15	BY	DCM	DESCRIPTION	"This drawing together with any and all additions, corrections, changes and alterations thereof is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company."		REFERENCE NUMBER	00000000	REVISIONS
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46		DATE	08/15/15	BY	DCM	DESCRIPTION	"This drawing together with any and all additions, corrections, changes and alterations thereof is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company."		REFERENCE NUMBER	00000000	REVISIONS	46		DATE	08/15/15	BY	DCM	DESCRIPTION	"This drawing together with any and all additions, corrections, changes and alterations thereof is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company."		REFERENCE NUMBER	00000000	REVISIONS
47		DATE	08/15/15	BY	DCM	DESCRIPTION	"This drawing together with any and all additions, corrections, changes and alterations thereof is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company."		REFERENCE NUMBER	00000000	REVISIONS	47		DATE	08/15/15	BY	DCM	DESCRIPTION	"This drawing together with any and all additions, corrections, changes and alterations thereof is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company."		REFERENCE NUMBER	00000000	REVISIONS
48		DATE	08/15/15	BY	DCM	DESCRIPTION	"This drawing together with any and all additions, corrections, changes and alterations thereof is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company."		REFERENCE NUMBER	00000000	REVISIONS	48		DATE	08/15/15	BY	DCM	DESCRIPTION	"This drawing together with any and all additions, corrections, changes and alterations thereof is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company."		REFERENCE NUMBER	00000000	REVISIONS
49		DATE	08/15/15	BY	DCM	DESCRIPTION	"This drawing together with any and all additions, corrections, changes and alterations thereof is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company."		REFERENCE NUMBER	00000000	REVISIONS	49		DATE	08/15/15	BY	DCM	DESCRIPTION	"This drawing together with any and all additions, corrections, changes and alterations thereof is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company."		REFERENCE NUMBER	00000000	REVISIONS
50		DATE	08/15/15	BY	DCM	DESCRIPTION	"This drawing together with any and all additions, corrections, changes and alterations thereof is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company."		REFERENCE NUMBER	00000000	REVISIONS	50		DATE	08/15/15	BY	DCM	DESCRIPTION	"This drawing together with any and all additions, corrections, changes and alterations thereof is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company."		REFERENCE NUMBER	00000000	REVISIONS
51		DATE	08/15/15	BY	DCM	DESCRIPTION	"This drawing together with any and all additions, corrections, changes and alterations thereof is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company."		REFERENCE NUMBER	00000000	REVISIONS	51		DATE	08/15/15	BY	DCM	DESCRIPTION	"This drawing together with any and all additions, corrections, changes and alterations thereof is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company."		REFERENCE NUMBER	00000000	REVISIONS
52		DATE	08/15/15	BY	DCM	DESCRIPTION	"This drawing together with any and all additions, corrections, changes and alterations thereof is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company."		REFERENCE NUMBER	00000000	REVISIONS	52		DATE	08/15/15	BY	DCM	DESCRIPTION	"This drawing together with any and all additions, corrections, changes and alterations thereof is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company."		REFERENCE NUMBER	00000000	REVISIONS
53		DATE	08/15/15	BY	DCM	DESCRIPTION	"This drawing together with any and all additions, corrections, changes and alterations thereof is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company."		REFERENCE NUMBER	00000000	REVISIONS	53		DATE	08/15/15	BY	DCM	DESCRIPTION	"This drawing together with any and all additions, corrections, changes and alterations thereof is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company."		REFERENCE NUMBER	00000000	REVISIONS
54		DATE	08/1																				



- GENERAL NOTES:
- HORIZONTAL AND VERTICAL CONTROL ARE BASED ON CLIMAX COORDINATE SYSTEM
 - CONTRACTOR IS RESPONSIBLE FOR LOCATION EXISTING UTILITIES AND PIPELINES WITHIN THE CONSTRUCTION CORRIDOR
 - FIELD ADJUSTMENTS TO HORIZONTAL AND VERTICAL ALIGNMENT MUST BE APPROVED BY THE PROJECT ENGINEER

NO.		DATE	BY	CHKD BY	DESCRIPTION	This drawing together with any and all addenda, corrections, changes and alterations thereto is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, sent, or disclosed in any manner or by any means without the prior written consent of said Climax Molybdenum Company.	REFERENCE: CLIMAX MOLYBDENUM COMPANY	CLIMAX MOLYBDENUM A Freeport-McMoRan Company	 W. W. WHEELER & ASSOCIATES, INC. 3700 S. INDIAN STREET DENVER, CO 80202-1103 303.761.4130 FAX 303.761.2802	SEEPWATER WELL COLLECTION PIPELINE		Climax Molybdenum Henderson Mill Pueblo, CO	
WELL FIELD PIPING SYSTEM - PHASE II		DATE	BY	CHKD BY	DESCRIPTION								
PLAN AND PROFILE		DATE	BY	CHKD BY	DESCRIPTION								
STA 0+00 TO END		DATE	BY	CHKD BY	DESCRIPTION								
		DATE	BY	CHKD BY	DESCRIPTION								



- NOTES:
1. EXTRACTION WELL DETAILS BY OTHERS.
 2. FIELD ROUTE INSTRUMENTATION/POWER WIRES FROM FLOW METER TO CONTROL PANEL.
 3. ELECTRICAL EQUIPMENT AND INSTRUMENTATION SPECIFICATIONS BY LOGICAL SYSTEMS INC.

REVISIONS	DATE	BY	APP'D	DESCRIPTION
1	10/15/15	ELM	ELM	1.10/15/15 (1) 10/15/15
2	11/15/15	ELM	ELM	1.11/15/15 (1) 11/15/15
3				
4				
5				

This drawing together with any and all additions, corrections, changes and alterations thereto is the property of Climax Molybdenum Company and is loaned to the user on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company.

REFERENCE	DATE	BY	APP'D	DESCRIPTION
1				
2				
3				
4				

Climax Molybdenum
A Freeport-McMuran Company

W. W. WHEELER & ASSOCIATES, INC.
3700 S. INDIAN STREET
ENID, OKLAHOMA 73701-1113
505.761.4130
FAX 505.761.5002

SEEPWATER WELL COLLECTION PIPELINE		Climax Molybdenum Henderson Mill	
EXTRACTION WELL VAULT		DATE	BY
GENERAL ARRANGEMENT		07/06/15	As Noted
		07/06/15	DRWING NO.
			SHEET 3

REVISIONS	1	1/10/12	10/10/12	10/10/12	10/10/12	<p>"This drawing together with any and all additions, corrections, changes and alterations thereof is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company."</p>	 <p>W.W. WHEELER & ASSOCIATES, INC. WATER RESOURCES ENGINEERS</p>	 <p>Climax Molybdenum A Freeport-McMoRan Company</p>	SEEPWATER WELL COLLECTION PIPELINE				Climax Molybdenum Henderson Mill			
									Painville, CO							
									PIPELINE		DATE DCM 07/02/15	DATE SM 07/02/15	DATE As Noted			
									TRENCH SECTION				DRAWING NO SHEET 4			
									AND MISC. DETAILS							

MATERIALS			
PART NO.	QUANTITY	UNITS	DESCRIPTION
100	700	FEET	6" IPS DR 17 HDPE PIPE, 50' SECTIONS, PE4710
101	100	FEET	2" IPS DR 17 HDPE PIPE, 50' SECTIONS, PE 4710
126	1	EACH	6" IPS DR 17 HDPE HDPE FLANGE ADAPTER, PE 4710
127	3	EACH	6" IPS DR 17 HDPE 45 DEGREE ELBOW, PE 4710
128	1	EACH	6" IPS BACKING RING, HOT-DIPPED GALVANIZED DUCTILE IRON, PRESSURE RATED 136 PSI
149	4	EACH	1-1/2" NPT 316 SS COUPLING
150	2	EACH	2" X 1-1/2" NPT 316 SS REDUCER BUSHING
151	6	EACH	2" NPT X 2" HDPE ADAPTER FITTING, POLYCAM MODEL 710, 316 SS, DR 17
152	2	EACH	1-1/2" NPT 316 SS TEE, CLASS 150
153	2	EACH	1-1/2" NPT X 6" L SCH 40 316 SS NIPPLE
154	2	EACH	1-1/2" NPT X 16" L SCH 40 316 SS NIPPLE
155	8	EACH	1-1/2" NPT X CLOSE SCH 40 316 SS NIPPLE
156	2	EACH	1-1/2" NPT THREADED FLANGE, 316 SS, CLASS 150
157	2	EACH	6" X 1-1/2" HDPE SADDLE, ROBAR MODEL 202N-H, 2 STRAPS, 1-1/2" IP TAP
158	7	EACH	6" FLANGE ADAPTER, VICTAULIC STYLE 994
159	2	EACH	2" HDPE COUPLING, VICTAULIC STYLE 905
300	4	EACH	1-1/2" NPT BALL VALVE, 2000 PSI WOG, 316 SS, APOLLO PN 7610527A
301	2	EACH	2" NPT BALL VALVE, 2000 PSI WOG, 316 SS, APOLLO PN 7610527A
302	3	EACH	6" BUTTERFLY VALVE, 300 PSI, VICTAULIC VIC-300 MASTERSEAL, W/ LEVER LOCK HANDLE
700	2	EACH	4' W X 6' L X 4' H, 6" WALLS, PRECAST CONCRETE MULTI PIECE UTILITY VAULT BASE, T: G JOINTS, W/ CAST-OUTS AS SHOWN ON DWG. SHEET 2, AND LADDER RUNGS
701	2	EACH	4' W X 6' L X 2' 6" H, 6" WALL, PRECAST CONCRETE MULTI PIECE UTILITY VAULT RISER SECTION, T: G JOINTS, W/ LADDER RUNGS
702	2	EACH	4' W X 6' L X 3' H, 6" WALLS, PRECAST CONCRETE MULTI PIECE UTILITY VAULT RISER SECTION, T: G JOINTS, W/ LADDER RUNGS
703	2	EACH	4' W X 6' L, 8" THICK SLAB TOP, NON-SKID DESIGN, W/ 332-AL FRAME AND COVER, NON-TRAFFIC RATED, AS SHOWN ON DWG. SHEET 2
900	4	EACH	LINK SEAL, MODEL LS-475-C-10 FOR 6" IPS HDPE PIPE (6.625" OD) AND 10" Ø CAST-OUT
901	3	EACH	LINK SEAL, MODEL LS-300-C-6 FOR 2" IPS HDPE PIPE (2.375" OD) AND 4" Ø CAST-OUT
902	1	EACH	6" 150 LB FLANGE BOLT AND GASKET SET
903	2	EACH	1-1/2" 150 LB FLANGE BOLT AND GASKET SET

*PIPING ITEMS AND QUANTITIES PROVIDED
BY HENDERSON

NOTES:

- EXTRACTION WELLS AND ASSOCIATED EQUIPMENT BY OTHERS.
- THIS MATERIAL LIST DOES NOT INCLUDE ALL ITEMS. SMALL ITEMS SUCH AS BOLTS, NUTS, GASKETS, ETC. MAY NOT BE INCLUDED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL PARTS REQUIRED TO COMPLETE THE PROJECT.
- ELECTRICAL EQUIPMENT, SUCH AS FLOW METERS, OUTLETS, CONTROL PANELS, CONDUIT, WIRING, ETC. ARE NOT INCLUDED ON THIS LIST AND ARE PROVIDED ON THE ELECTRICAL DRAWINGS.
- SUBMIT MATERIAL CUT SHEETS AND VAULT SHOP DRAWINGS TO PROJECT ENGINEER FOR APPROVAL BEFORE PURCHASING.

REVISIONS	1	05/15/14	05/15/14	05/15/14	05/15/14
	2	05/15/14	05/15/14	05/15/14	05/15/14
	3	05/15/14	05/15/14	05/15/14	05/15/14
	4	05/15/14	05/15/14	05/15/14	05/15/14
	5	05/15/14	05/15/14	05/15/14	05/15/14
This drawing together with any and all additions, corrections, changes and alterations thereto is the property of Climax Molybdenum Company and is furnished on the express condition that it shall not be reproduced, copied, lent, or disposed of directly or indirectly, nor used for any other purpose than for which it is specifically furnished without the prior written consent of said Climax Molybdenum Company.					
REVISIONS					
Climax Molybdenum A Freeport-McMoRan Company					
W. W. WHEELER & ASSOCIATES, INC. 3700 S. INDA STREET DENVER, CO 80211 303.761.4130 FAX 303.761.2832					
SEEPWATER WELL COLLECTION PIPELINE Climax Molybdenum Henderson Mill Parshall, CO					
EXTRACTION WELL VAULT					
MATERIALS					
DATE: 05/28/14 DRAWING NO: SHEET 5					



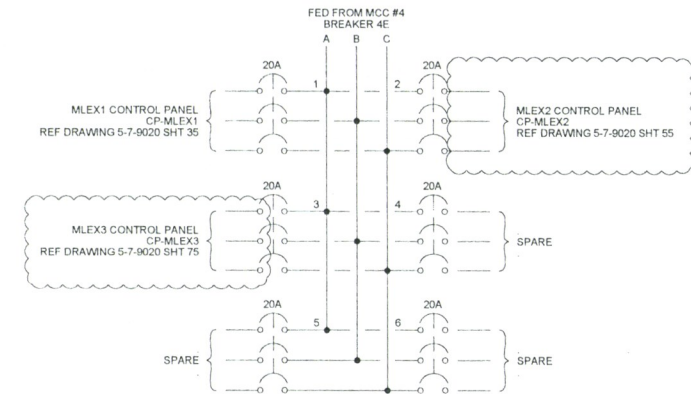
EXTRACTION WELLFIELD PHASE II ELECTRICAL DRAWINGS DRAWING #5-7-9020

DWG. NO.	REFERENCE DRAWINGS	DESCRIPTION OF REVISION	DATE	BY	APP BY	ENGR	CAW	01/20/2014
		Δ ISSUE FOR CONSTRUCTION	08/15/14	CW	SR			
		Δ MLEX1 AS BUILT	01/05/15	CW	SW			
		Δ PHASE II ISSUED FOR BID	05/04/15	SMS	SMS			
		Δ PHASE II ISSUE FOR CONSTRUCTION	05/26/15	SMS	SMS			
SCALE						AS SHOWN	SAFETY APP BY	



HENDERSON MILL
TAILINGS & WATER SITES
EXTRACTION WELLFIELD
COVER SHEET

PANEL DESIGNATION: POWER PANEL PP-206A													
PANEL LOCATION: POLE MOUNTED DROP POLE 206A				VOLTAGE 480/277V									
FED FROM DS-206A				PHASE 3									
MOUNTING SURFACE				WIRE 4									
ENCLOSURE TYPE 3R				MAIN TYPE									
FEED TOP ENTRY				MAIN RATING 100A									
INTERRUPTING RATING (AIC) 10kA				MCB RATING 100A									
CKT. NO.	DESCRIPTION	LOAD TYPE	AMP	POLE	A	B	C	POLE	AMP	LOAD TYPE	DESCRIPTION	CKT. NO.	
1	MLEX 1 CONTROL PANEL CP-MLEX1	C	20A	3	2181 1331	2181 2181	1331 2181	3	20A	C	MLEX 2 CONTROL PANEL CP-MLEX2	2	
3	MLEX 3 CONTROL PANEL CP-MLEX3	C	20A	3	2181 0	1331 0	2181 0	3	20A	C	SPARE - FUTURE WELL	4	
5	SPARE	C	20A	3	0 0	0 0	0 0	3	20A	C	SPARE	6	
TOTAL LOAD					5693 VA	5693 VA	5693 VA	ADDITIONAL PANEL INFORMATION					
TOTAL CONNECTED LOAD			17079 VA	0			PANEL TYPE						
TOTAL CONTINUOUS LOAD			5693 VA	0			BREAKER TYPES						
TOTAL INTERMITTENT LOAD			0 VA	0									
TOTAL PANEL LOAD			7116.3 VA	0									
TOTAL PANEL AMPS			8.6 A	0									



1 POWER PANEL PP-206A
SCALE 1'-0" = 1'-0"

DWG. NO.	REFERENCE DRAWINGS	DESCRIPTION OF REVISION	DATE	BY	APP BY	ENGR	CAW	04/10/14
		Δ ISSUE FOR CONSTRUCTION	09/02/14	CAW	SR		CAW	04/10/14
		Δ AS BUILT	01/05/15	CW	SW			
		Δ PHASE II ISSUE FOR BID	05/04/15	SMS	SMS			
		Δ PHASE II ISSUE FOR CONSTRUCTION	5/26/15	SMS	SMS			
SCALE						AS SHOWN	SAFETY APP BY:	

HENDERSON OPERATIONS

 A Freeport-McMoRan Company
 EMPIRE / PARKSALL, COLORADO
 303.669.3221


HENDERSON MILL
 TAILINGS & WATER SITES
 EXTRACTION WELL FIELD
 PP-206A PANEL SCHEDULE
 5-7-9019 SHT 1 OF 1 REV A

WELLFIELD ELECTRICAL
SHEET INDEX

SHEET	DESCRIPTION
0	COVER SHEET
1	DRAWING INDEX
2	ELECTRICAL & CONTROLS STANDARD SYMBOLS
3	ELECTRICAL & CONTROLS LEGEND SHEET
4	WELLFIELD GENERAL BILL OF MATERIALS
5	(INTENTIONALLY BLANK)
6	(INTENTIONALLY BLANK)
7	PANEL LEGEND SHEET
8	(INTENTIONALLY BLANK)
9	(INTENTIONALLY BLANK)
10	WELLFIELD SITE DETAIL
11	MLEX1 VAULT DETAIL
12	(INTENTIONALLY BLANK)
13	(INTENTIONALLY BLANK)
14	(INTENTIONALLY BLANK)
15	POLE 206A POWER ONE-LINE
16	(INTENTIONALLY BLANK)
17	(INTENTIONALLY BLANK)
18	PANEL SCHEDULE PP-206A
19	(INTENTIONALLY BLANK)
20	(INTENTIONALLY BLANK)
21	POLE 206A CONDUIT ONE-LINE
22	(INTENTIONALLY BLANK)
23	POLE 206A CONDUIT SCHEDULE
24	(INTENTIONALLY BLANK)
25	(INTENTIONALLY BLANK)
26	MLEX1 CR1000 (SHT 1 OF 2)
27	MLEX1 CR1000 (SHT 2 OF 2)
28	(INTENTIONALLY BLANK)
29	(INTENTIONALLY BLANK)
30	MLEX1 GEOTECH PANEL LAYOUT
31	MLEX1 GEOTECH SUBPANEL LAYOUT
32	MLEX1 GEOTECH BILL OF MATERIALS
33	(INTENTIONALLY BLANK)
34	(INTENTIONALLY BLANK)
35	MLEX1 GEOTECH 480VAC DISTRIBUTION
36	MLEX1 GEOTECH 120VAC DISTRIBUTION
37	MLEX1 GEOTECH DISCRETE INPUT
38	MLEX1 GEOTECH DISCRETE OUTPUT
39	(INTENTIONALLY BLANK)
40	(INTENTIONALLY BLANK)
41	(INTENTIONALLY BLANK)
42	(INTENTIONALLY BLANK)
43	MLEX 2 VAULT DETAIL
44	(INTENTIONALLY BLANK)
45	(INTENTIONALLY BLANK)
46	MLEX2 CR1000 (SHT 1 OF 2)
47	MLEX2 CR1000 (SHT 2 OF 2)

SHEET	DESCRIPTION
48	(INTENTIONALLY BLANK)
49	(INTENTIONALLY BLANK)
50	MLEX2 PANEL LAYOUT
51	MLEX2 TERMINAL LAYOUT
52	MLEX2 BILL OF MATERIALS
53	(INTENTIONALLY BLANK)
54	(INTENTIONALLY BLANK)
55	MLEX2 480VAC DISTRIBUTION
56	MLEX2 120VAC DISTRIBUTION
57	MLEX2 DISCRETE INPUT
58	MLEX2 DISCRETE OUTPUT
59	(INTENTIONALLY BLANK)
60	(INTENTIONALLY BLANK)
61	(INTENTIONALLY BLANK)
62	(INTENTIONALLY BLANK)
63	MLEX3 VAULT DETAIL
64	(INTENTIONALLY BLANK)
65	(INTENTIONALLY BLANK)
66	MLEX3 CR1000 (SHT 1 OF 2)
67	MLEX3 CR1000 (SHT 2 OF 2)
68	(INTENTIONALLY BLANK)
69	(INTENTIONALLY BLANK)
70	MLEX3 PANEL LAYOUT
71	MLEX3 TERMINAL LAYOUT
72	MLEX3 BILL OF MATERIALS
73	(INTENTIONALLY BLANK)
74	(INTENTIONALLY BLANK)
75	MLEX3 480VAC DISTRIBUTION
76	MLEX3 120VAC DISTRIBUTION
77	MLEX3 DISCRETE INPUT
78	MLEX3 DISCRETE OUTPUT

DWG. NO.	REFERENCE DRAWINGS	DESCRIPTION OF REVISION	DATE	BY	APP BY	ENGR	CAW	01/20/2014
		Δ ISSUE FOR CONSTRUCTION	08/15/14	CW	SR	DRAWN BY	CAW	01/22/2014
		Δ MLEX1 AS BUILT	01/05/15	CW	SW	CHECKED BY		
		Δ PHASE II ISSUE FOR BID	05/04/15	SMS	SMS	APPROVED BY		
		Δ PHASE II ISSUE FOR CONSTRUCTION	05/26/15	SMS	SMS	APPROVED BY		
					SCALE	AS SHOWN	SAFETY APP BY	



Climax Molybdenum
A Freeport-McMoRan Company
EMPIRE / PARSHALL, COLORADO
303.569.3221

HENDERSON MILL

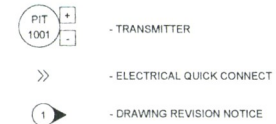
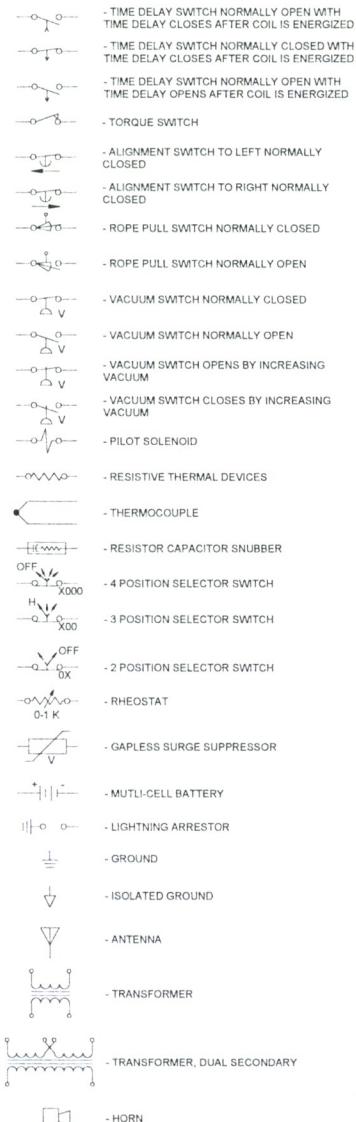
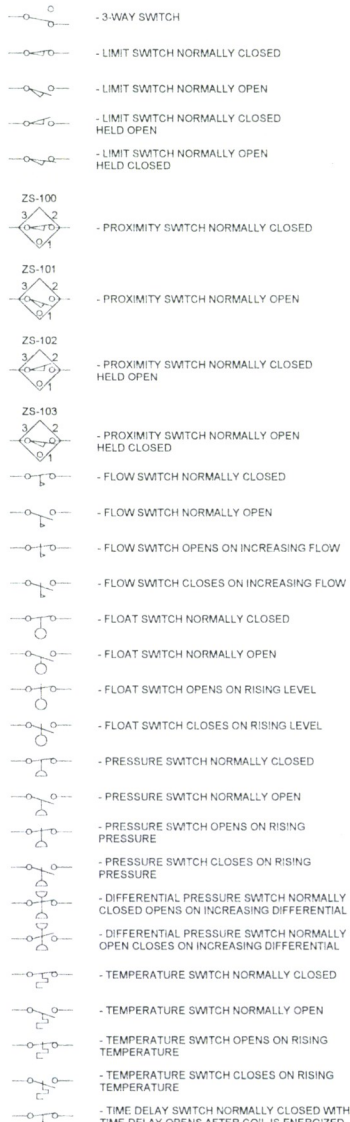
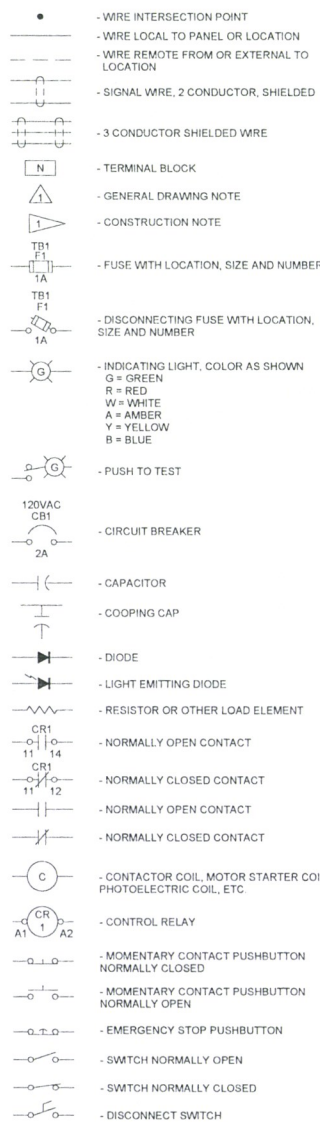
TAILINGS & WATER SITES



EXTRACTION WELLFIELD

SHEET INDEX

5-7-9020	SHT 1 OF	REV.
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SCHEMATIC SYMBOLS



DWG. NO.	REFERENCE DRAWINGS	DESCRIPTION OF REVISION	DATE	BY	APP BY	ENGR	JLA/LSI	12/05/14	<div><div><p>HENDERSON OPERATIONS  A Freeport-McMoRan Company <small>(EMPRE / PARISHALL, COLORADO)</small> <small>303-569-3221</small></p></div></div>	<div><div>HENDERSON OPERATION: TAILINGS AND WATER SITES EXTRACTION WELLFIELD SYMBOLS SHEET</div><div><div>5-7-9020</div><div>SHT 2 OF</div><div>REV. 2</div></div></div>		
		PHASE II ISSUE FOR BID	05/04/15	SMS		DRAWN BY	JLA/LSI	12/05/14				
						CHECKED BY						
						APPROVED BY						
						APPROVED BY						
					SCALE	AS SHOWN	SAFETY APP BY					

ABBREVIATIONS - GENERAL

A	- AMBER, AMPERE, ALARM	Mb	- AUXILIARY STARTER CONTACT, N.C
a	- AUXILIARY CONTACT, NO	MCC	- MOTOR CONTROL CENTER
AC	- ALTERNATING CURRENT	MCM	- THOUSAND CIRCULAR MIL
ACB	- AIR CURRENT BREAKER	MOV	- MOTOR OPERATED VALVE
ACT	- ACTUATOR	MS	- MANUAL MOTOR STARTER
ACN	- AC NEUTRAL	MSH	- MOTOR SPACE HEATER
ANN	- ANNUNCIATOR	mV	- MILLIVOLT
AS	- AIR SUPPLY	N	- NEUTRAL
ATM	- ATMOSPHERE	NC	- NORMALLY CLOSED
AWG	- AMERICAN STANDARD WIRE GAUGE	NEC	- NATIONAL ELECTRICAL CODE
b	- AUXILIARY CONTACT, NC	NO	- NORMALLY OPEN
BVM	- BATTERY VOLTAGE MONITOR	OCB	- OIL CIRCUIT BREAKER
CPT	- CONTROL POWER TRANSFORMER	OL	- OVERLOAD
Ca	- AUXILIARY CONTACTOR, N.O.	P/O	- "PART OF"
Cb	- AUXILIARY CONTACTOR, N.C.	PF	- POWER FACTOR
DC	- DIRECT CURRENT	PLC	- PROGRAMMABLE LOGIC CONTROLLER
DPDT	- DOUBLE POLE DOUBLE THROW	PT	- POTENTIAL TRANSFORMER
DS	- DISCONNECT SWITCH	SH	- SPACE HEATER, SWITCHED HOT
EC	- EMPTY CONDUIT	SM	- SINGLE MODE (FOR FIBER OPTICS)
EE	- WIREWAY	SP	- SINGLE POLE
EMT	- ELECTRICAL METALLIC TUBING	SPDT	- SINGLE POLE DOUBLE THROW
EP	- EXPLOSION PROOF	SPST	- SINGLE POLE SINGLE THROW
ESD	- EMERGENCY SHUTDOWN	ST	- SHUNT TRIP, ST FIBER CONNECTORS
ETM	- ELAPSED TIME METER	SOL	- SOLENOID
FC	- FAIL CLOSED	SWGR	- SWITCH GEAR
FH	- FUSED HOT	T	- THERMOSTAT, TIMER, OR TOTALIZER
FLA	- FULL LOAD AMPS	TB	- TERMINAL BLOCK
FMC	- FLEXIBLE METAL CONDUIT	TC	- THERMOCOUPLE
FO	- FIBER OPTIC	TD	- TIME DELAY RELAY
FVNR	- FULL VOLTAGE, NON-REVERSING	TOC	- PLAN ELEVATION AT TOP OF CEMENT
GFI	- GROUND FAULT INTERRUPTOR	TOG	- TOP OF FINISHED GRADE
GLS	- GEARED LIMIT SWITCH	TSP	- TWISTED, SHIELDED PAIR
GRC	- GALVANIZED, RIGID CONDUIT	UV	- UNDER VOLTAGE
H-O-A	- HAND/OFF/AUTO	UPS	- UNINTERRUPTABLE POWER SUPPLY
H-O-R	- HAND/OFF/REMOTE	V	- VOLTS
HP	- HORSEPOWER	VA	- VOLT AMPERE
Hz	- HERTZ (CYCLES/SEC)	VFD	- VARIABLE FREQUENCY DRIVE
I/O	- INPUT/OUTPUT	VLS	- VALVE LIMIT SWITCH
ISB	- INTRINSICALLY SAFE BARRIER	VM	- VOLT METER
IT	- ISOLATED TRANSMITTER	W	- WHITE OR WATTS
J	- JUNCTION	WH	- WATT HOUR METER
JB	- JUNCTION BOX	WP	- WEATHER PROOF
KV	- KILOVOLT	XMN	- TRANSFORMER
KVA	- KILOVOLT AMPERE	251W	- TWO SPEED, SINGLE WINDING
KVAR	- KILOVAR		
KW	- KILOWATT		
KWH	- KILOWATT HOUR		
mA	- MILLIAMPERE		
Ma	- AUXILIARY STARTER CONTACT, N.O.		

CROSS REFERENCING LEGEND		
TYPE	SYNTAX	EXAMPLE
TO SCHEMATICS	(XYYY), XX IS THE SHEET NUMBER WITHIN DRAWING NUMBER, YY IS THE RUNG NUMBER	(3249), SHEET 32 RUNG 49 WITHIN RESPECTIVE SHEET (10210), SHEET 102 RUNG 10 WITHIN RESPECTIVE SHEET
TO COMPONENT LAYOUTS	[XYYY], XX IS THE SHEET NUMBER OF THE COMPONENT LAYOUT, YY IS THE GRID LOCATION ON THE COMPONENT LAYOUT DRAWING	[1A3], SHEET 1 WITHIN THE GRID SQUARE A3 [10K5], SHEET 10 WITHIN THE GRID SQUARE K5
TO OTHER DRAWINGS	Z-Z-ZZZZ (XYYY), Z-Z-ZZZZ IS THE DRAWING NUMBER, XX IS THE SHEET NUMBER, YY IS THE RUNG NUMBER	120VAC NEUTRAL

NOTE: SHEET NUMBER XX CAN BE UP TO 4 CHARACTERS LONG

PANEL 120VAC WIRING		
AWG	COLOR	DESCRIPTION
#16	RED	120VAC HOT
#16	WHITE	120VAC NEUTRAL
#16	GREEN	GROUND
#16	YELLOW	FOREIGN VOLTAGE

NOTE: ALL 120VAC WIRING SHALL BE #16 AWG TYPE MTW UNLESS OTHERWISE NOTED

PANEL DC WIRING		
AWG	COLOR	DESCRIPTION
#18	WHITE	TSP (+)
#18	BLACK	TSP (-)
#18	BLUE	+24VDC
#18	WHITE/BLUE	24VDC COMMON
#18	PURPLE	+12VDC
#18	WHITE/PURPLE	12VDC COMMON

NOTE: ALL DC WIRING SHALL BE #18 AWG TYPE MTW UNLESS OTHERWISE NOTED

DWG. NO.	REFERENCE DRAWINGS	DESCRIPTION OF REVISION	DATE	BY	APP BY	ENGR	JLA/LSI	12/05/13
		PHASE II ISSUE FOR CONSTRUCTION	05/26/15	SMS	SMS	DRAWN BY:	JLA/LSI	12/05/13
						CHECKED BY:		
						APPROVED BY:		
						APPROVED BY:		
						SCALE:	AS SHOWN	SAFETY APP BY:



HENDERSON OPERATIONS		
TAILINGS & WATER SITES EXTRACTION WELLFIELD LEGEND SHEET		
4-7-9020	SHT 3 OF	REV. A

GENERAL BILL OF MATERIALS



PHASE II (MLEX 2 & MLEX3)

ITEM	QTY.	MANUFACTURER	PART NUMBER	DESCRIPTION	PROVIDED PARTS *
1	2	-	-	CONTROL PANEL (MLEX2 & MLEX3)	✓
2	2	ROSEMOUNT	8705TSA015C1W0NAR05L1V1	8705 MAGNETIC FLOWMETER FLOWTUBE, PTFE, 316L SS, 2 MEASURE ELECTRODES, 1 5", SLIP ON RAISED FACE CARBON STEEL, ASME CLASS 150, SEALED WELDED HOUSING, NO SAFETY APPROVAL, POTTED JUNCTION BOX WITH 50' OF COMBO CABLE, 316L SS LINING, COAL TANK PAINT	✓
3	2	ROSEMOUNT	8712ESR1A1NAM4	8712E MAGNETIC FLOWMETER TRANSMITTER, REVISION 3 ELECTRONICS, REMOTE MOUNT, AC POWER SUPPLY (90-250VAC), 4-20MA DIGITAL HART, 1/2-14 NPT CONDUIT ENTRIES, NO SAFETY APPROVAL, LOCAL OPERATOR INTERFACE	✓
4	2	CAMPBELL SCIENTIFIC	26790-544	MODEL CS451-L125-HA-29-SN, PRESSURE TRANSDUCER SDI-12/RS-232, SS, 125' CABLE, HIGHER 0.05% ACCURACY, 0-25PSIG, STANDARD NOSE CONE	✓
5	2	CAMPBELL SCIENTIFIC	25431	MODEL CS451-L125-HA-29-SN, SPLIT MESH CABLE GRIP, 0 18-0 25	✓
6	2	CAMPBELL SCIENTIFIC	16130-27	MODEL CR1000-KT-SW-CG, MEASURE & CONTROL DATALOGGER, -55 TO +85C, STANDARD 3 YR WARRANTY, CALIBRATION CERT	✓
7	2	CAMPBELL SCIENTIFIC	20598	CURS100, 100 OHM CURRENT SHUNT TERMINAL INPUT MODULE	✓
8	2	CAMPBELL SCIENTIFIC	30576-2	MODEL RF401A-KT, 900MHZ SPREAD SPECTRUM RADIO, -40 TO +85C	✓
9	2	CAMPBELL SCIENTIFIC	14291	MODEL RF401A-KT, FIELD POWER CABLE 12VDC PLUG TO PIGTAIL, 2'	✓
10	2	CAMPBELL SCIENTIFIC	14201	MODEL RF401A-KT, 900MHZ 90DB YAGI ANTENNA WITH TYPE N FEMALE & MOUNTING HARDWARE	✓
11	2	CAMPBELL SCIENTIFIC	16112-8	MODEL COAXNTN-L25, ANTENNA CABLE RG8 WITH 2 TYPE N MALE CONNECTORS, 25' PER ANTENNA CABLE	✓
12	2	CAMPBELL SCIENTIFIC	14462	MODEL COAXNTN-L25, SURGE SUPPRESSOR KIT FOR 900 OR 922MHZ RPSMA	✓
13	2	CAMPBELL SCIENTIFIC	21212	MODEL COAXNTN-L25, BLACK COLD SHRINK TAPE, 10' LONG ROLL	✓
14	2	CAMPBELL SCIENTIFIC	17252-16	MODEL PS100-SW, 12V POWER SUPPLY WITH CHARGING REGULATOR AND 7AH SEALED RECHARGEABLE BATTERY	✓
15	2	CAMPBELL SCIENTIFIC	20796-1	MODEL 20796-US, POWER SUPPLY, 24VDC, 1.67A OUTPUT, 100-240VAC, 1A INPUT, 5' CABLE	✓
16	2	CAMPBELL SCIENTIFIC	30708-67	MODEL ENC1416-DC-NM, WEATHER-RESISTANT 14" X 16" ENCLOSURE, 2 CONDUITS FOR CABLES, NO ENCLOSURE MOUNTING	✓
17	2	CAMPBELL SCIENTIFIC	6714	MODEL ENC1416-DC-NM, DESICCANT 4 UNIT BAG (QTY 20)	✓
18	2	CAMPBELL SCIENTIFIC	19332	MODEL ENC1416-DC-NM, BULKHEAD ANTENNA CABLE INSTALLED IN ENCLOSURE TYPE N-TO-N, 17"	✓

* PARTS TO BE PROVIDED TO INSTALLER.

GENERAL NOTES:

1 PANEL SHALL BE FABRICATED PER UL508A

DWG NO	REFERENCE DRAWINGS	DESCRIPTION OF REVISION	DATE	BY	APP BY	ENGR	CJM/GEO	10/03/14	 HENDERSON OPERATIONS  A Freeport-McMoRan Company <small>EMPIRE / PARISH HILL, COLORADO</small> <small>303 560-3221</small>	HENDERSON MILL			
		△ PHASE II ISSUE FOR BID	05/04/15	SMS	SMS	DRAWN BY	CJM/GEO	10/03/14		TAILINGS & WATER SITES			
		△ PHASE II ISSUE FOR CONSTRUCTION	05/26/15	SMS	SMS	CHECKED BY	CW	01/15/14		EXTRACTION WELLFIELD			
		△				APPROVED BY				GENERAL BILL OF MATERIAL			
		△				APPROVED BY							
		△				SCALE	AS SHOWN	SAFETY APP BY					


PANEL LEGEND			
PANEL SYMBOL	PANEL DESCRIPTION	PANEL LAYOUT	COMPONENT LAYOUT
11	CP-MLEX1 - PUMP CONTROL PANEL		
12	CP-ENV-MLEX1 - ENVIRONMENTAL CONTROL PANEL		
13	VAULT MLEX1		
14	WELL MLEX1		
21	CP-MLEX2 - PUMP CONTROL PANEL		
22	CP-ENV-MLEX2 - ENVIRONMENTAL CONTROL PANEL		
23	VAULT MLEX2		
24	WELL MLEX2		
31	CP-MLEX3 - PUMP CONTROL PANEL		
32	CP-ENV-MLEX3 - ENVIRONMENTAL CONTROL PANEL		
33	VAULT MLEX3		
34	WELL MLEX 3		
41	CP-MLEX4 - PUMP CONTROL PANEL		
42	CP-ENV-MLEX4 - ENVIRONMENTAL CONTROL PANEL		
43	VAULT MLEX4		
44	WELL MLEX4		
51	CP-MLEX5 - PUMP CONTROL PANEL		
52	CP-ENV-MLEX5 - ENVIRONMENTAL CONTROL PANEL		
53	VAULT MLEX5		
54	WELL MLEX5		
61	CP-MLEX6 - PUMP CONTROL PANEL		
62	CP-ENV-MLEX6 - ENVIRONMENTAL CONTROL PANEL		
63	VAULT MLEX6		
64	WELL MLEX6		
100	POWER POLE 206		
100A	DROP POLE 206A		

NOTES:

- 1
- ALL BURIED CONDUIT TO BE TYPE SCHED 80.
ELBOWS AND STUB UPS TO BE PVC COATED.
- 2
- MINIMUM BURIAL DEPTH 30"

DWG. NO.	REFERENCE DRAWINGS	DESCRIPTION OF REVISION	DATE	BY	APP BY	ENGR	CAW	01/20/2014
		Δ ISSUE FOR CONSTRUCTION	08/15/14	CW	SR		CAW	01/22/2014
		Δ MLEX1 AS BUILT	01/05/15	CW	SW			
		Δ PHASE II ISSUE FOR BID	05/04/15	SMS	SMS			
		Δ PHASE II ISSUE FOR CONSTRUCTION	05/26/15	SMS	SMS			
						SCALE	AS SHOWN	SAFETY APP BY.

HENDERSON OPERATIONS

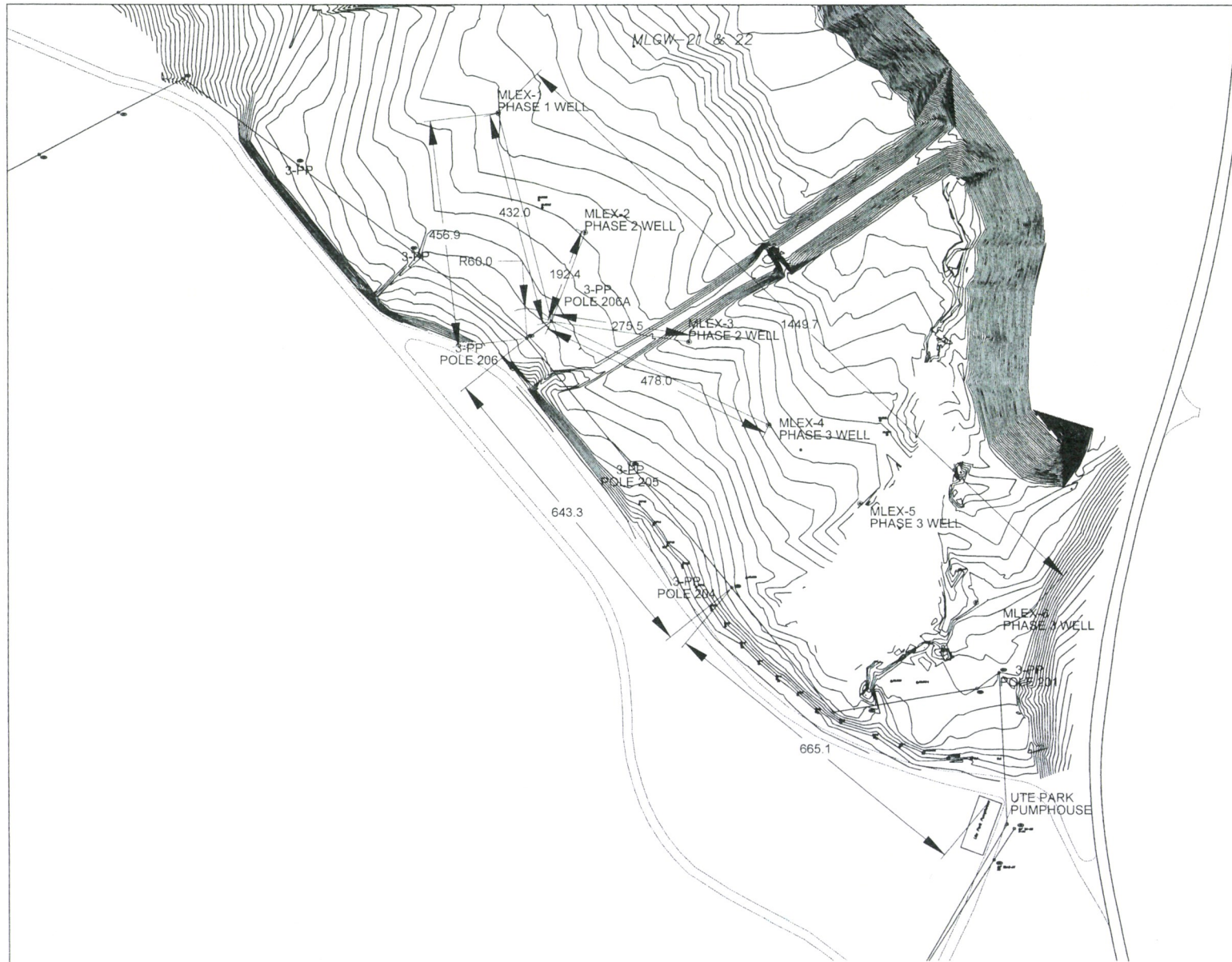

A Freeport-McMoRan Company

EMPERE / PARISHALL, COLORADO
303-569-3221

HENDERSON MILL

TAILINGS & WATER SITES
EXTRACTION WELLFIELD
PANEL LEGEND

5-7-9020 SHT 7 OF REV Δ



GENERAL DETAIL

MOUNT 13.8KV/480V Δ / Y POLE MOUNTED TRANSFORMER WITH PRIMARY DISCONNECT CENTRALIZED LOCATIONS.

POLE 206 - TAP TO SLACK SPAN
POLE 206A - 112.5 KVA XFMR DROP POLE TO 480V DISTRIBUTION PANEL

POLE 206 TO POLE 206A ~ 60 FT, VERTICAL ARRANGEMENT ROLLED TO HORIZONTAL

SECONDARY POWER FROM XFMR TO WELL LOCATION. BURIED CONDUIT SCHED 40 PVC

POLE 206A TO WELL MLEX-1 ~ 432 FT

POLE 206A TO WELL MLEX-2 ~ 192 FT

POLE 206A TO WELL MLEX-3 ~ 275 FT

DWG. NO.	REFERENCE DRAWINGS	DESCRIPTION OF REVISION	DATE	BY	APP BY	ENGR	CAW	1/20/2014
		Δ ISSUE FOR CONSTRUCTION	08/15/14	CW	SR		CAW	1/20/2014
		Δ MLEX1 AS BUILT	01/05/15	CW	SW		EEC	06/30/14
		Δ PHASE II ISSUE FOR BID	05/04/15	SMS	SMS		EEC	06/30/14
		Δ PHASE II ISSUE FOR CONSTRUCTION	05/26/15	SMS	SMS			
SCALE						1/8" = 1'	SAFETY APP BY:	

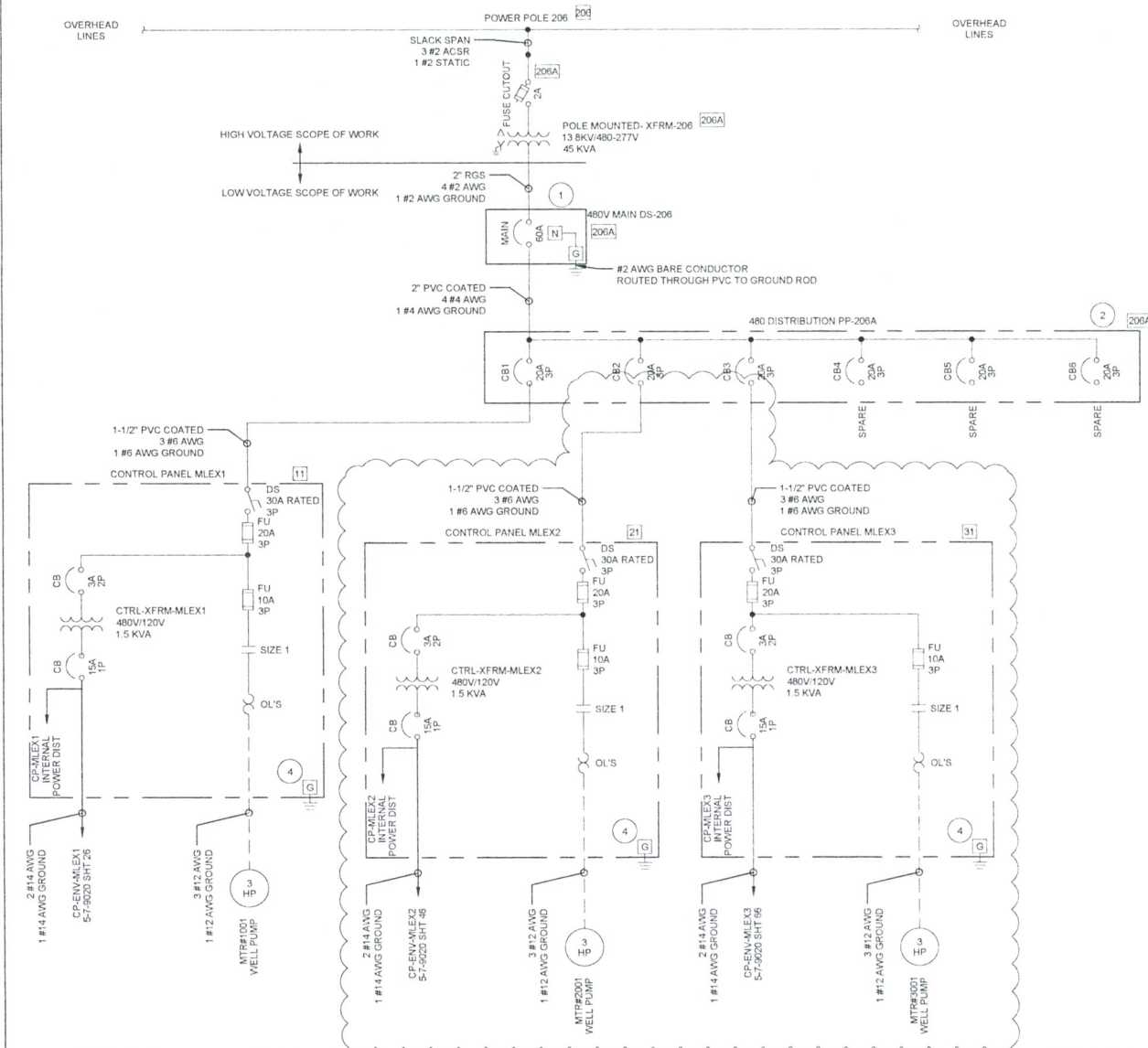
HENDERSON OPERATIONS

Climax Molybdenum

A Freeport-McMoRan Company

EMPEROR TAILINGS MILL, COLO. 80502

HENDERSON MILL		
TAILINGS & WATER SITES		
EXTRACTION WELLFIELD		
SITE GENERAL ARRANGEMENT		
5-7-9020	SHT 10 OF	REV. Δ



GENERAL NOTES

- 1 CUTLER HAMMER TYPE DH363NRK OR EQUIVALENT NEMA 3R, 100A RATED, 480/277V THREE PHASE, LOCKABLE SERVICE DISCONNECT
- 2 CUTLER HAMMER NEMA 3R, 100A 480/277V THREE PHASE, DISTRIBUTION PANEL, MAIN LUGS, NEUTRAL LUGS, FULLY LOADED WITH SIX (6) 20A 3 POLE BREAKERS
- 3 GEOTECH CONTROL PANEL INTERNAL PANEL WIRING DOCUMENTATION TO BE PROVIDED DURING INSTALLATION
- 4 #2 AWG BARE CONDUCTOR ROUTED THROUGH RVC TO GROUND ROD

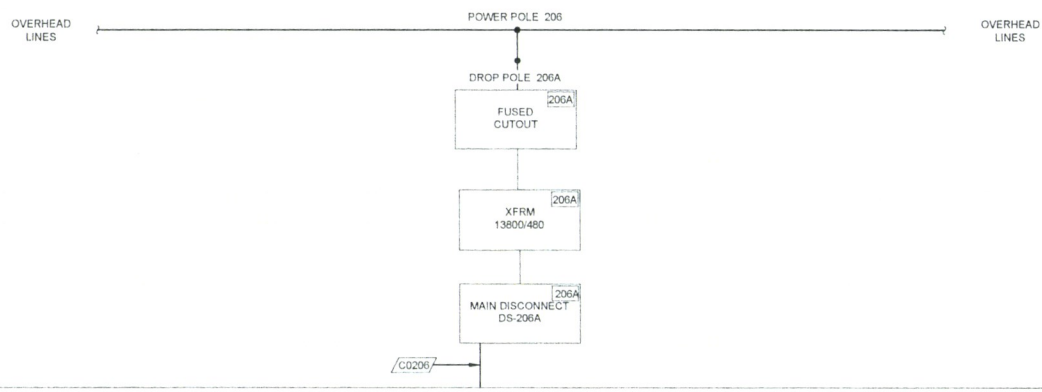
DWG NO.	REFERENCE DRAWINGS	DESCRIPTION OF REVISION	DATE	BY	APP BY	ENGR	CAW	01/20/2014
		ISSUE FOR CONSTRUCTION	08/15/14	CW	SR			
		MLEX1 AS BUILT	01/05/15	CW	SW			01/22/2014
		MODIFIED FUSES INTERNAL TO GEOTECH PANEL	04/23/15	CW				
		PHASE II ISSUE FOR BID	05/04/15	SMS	SMS			
		PHASE II ISSUE FOR CONSTRUCTION	05/26/15	SMS	SMS			



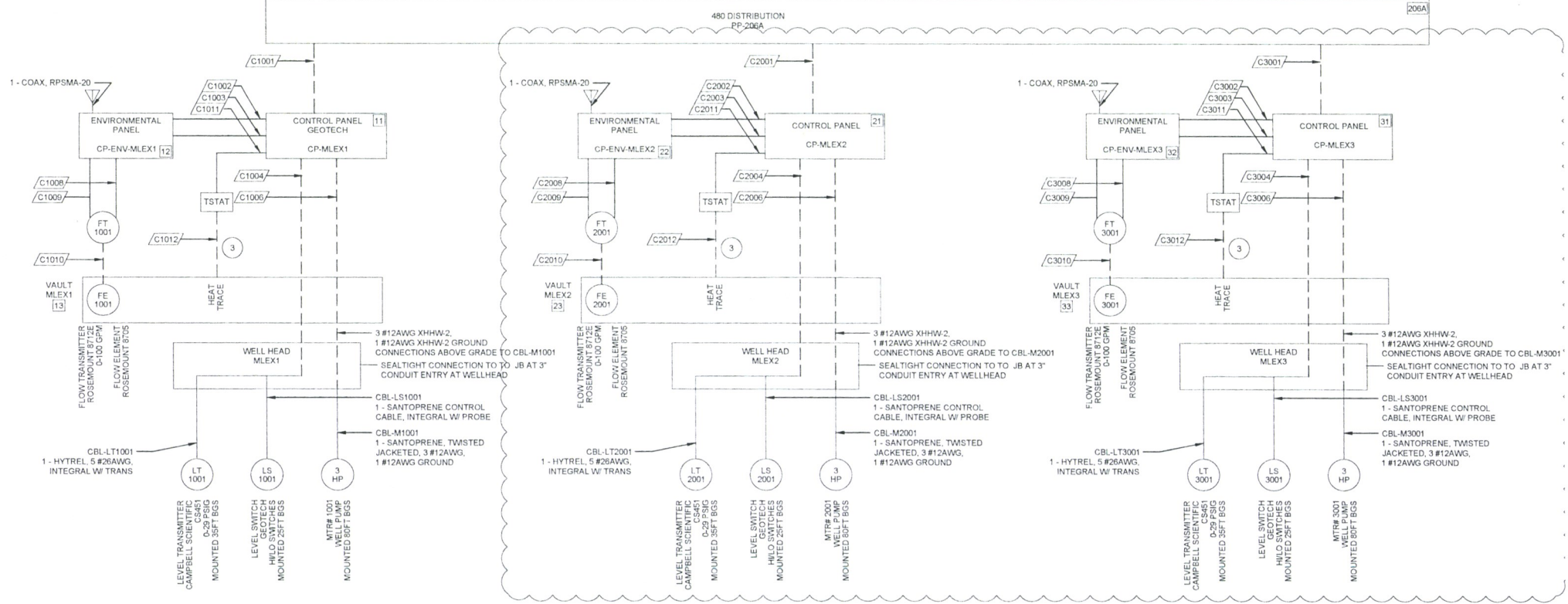
HENDERSON MILL
TAILINGS & WATER SITES
EXTRACTION WELLFIELD
POLE 206A ONE LINE

5-7-9020 SHT 15 OF REV. A

- LEGEND
- ABOVE GROUND CONDUIT
 - - - BELOW GROUND CONDUIT
 - CABLEING



- GENERAL NOTES:
- 1 CUTLER HAMMER TYPE DH363NRK, OR EQUIVALENT, NEMA 3R, 100A RATED, 480/277V THREE PHASE, LOCKABLE SERVICE DISCONNECT, PROVIDED BY CONTRACTOR
 - 2 CUTLER HAMMER, NEMA 3R, 100A 480/277V THREE PHASE, DISTRIBUTION PANEL, MAIN LUGS, NEUTRAL LUGS, FULLY LOADED WITH SIX (6) 20A 3 POLE BREAKERS, PROVIDED BY CONTRACTOR
 - 3 ARCTIC TRACE TYPE Z121012CBTL, WITH DIGITRACE AMC-1A THERMOSTAT, PROVIDED BY CONTRACTOR



DWG. NO.	REFERENCE DRAWINGS	DESCRIPTION OF REVISION	DATE	BY	APP BY	ENGR	CAW	01/20/2014	HENDERSON OPERATIONS	HENDERSON MILL
		ISSUE FOR CONSTRUCTION	08/15/14	CW	SR					TAILINGS & WATER SITES
		MLEX1 AS BUILT	01/05/15	CW	SW					EXTRACTION WELLFIELD
		PHASE II ISSUE BID	05/04/15	SMS	SMS					POLE 206A CONDUIT ONELINE
		PHASE II ISSUE FOR CONSTRUCTION	05/26/15	SMS	SMS					
			SCALE		AS SHOWN	SAFETY APP BY				

CONDUIT SCHEDULE				
CONDUIT	SIZE	TYPE	FILL	PROVIDED BY COMPANY
C0205	1 1/2"	PVC COATED	3 #4 AWG XHHW-2 (BRN, ORG, YEL), 1 #4AWG GROUND XHHW-2 (GRN)	
C1001	1 1/2"	PVC COATED	3 #6 AWG XHHW-2 (BRN, ORG, YEL), 1 #6AWG GROUND XHHW-2 (GRN)	
C1002	1"	GRC	2 #14 AWG XHHW-2 (RED, WHT), 1 #14 AWG GROUND XHHW-2 (GRN)	
C1003	1"	GRC	1 - SANTOPRENE CONTROL CABLE, INTEGRAL W/ LEVEL PROBE 1 - 2 PAIR, TWISTED SHIELDED, 16 AWG	X
C1004	1"	GRC	1 - SANTOPRENE CONTROL CABLE, INTEGRAL W/ LEVEL PROBE 1 - HYTREL, 5 #26AWG, INTEGRAL W/ TRANSMITTER	X X
C1005				
C1006	1"	PVC COATED	3 #10 AWG XHHW-2 (BRN, ORG, YEL), 1 #10 AWG GROUND XHHW-2 (GRN) SPlice IN WELLHEAD JUNCTION BOX TO 1 - SUBMERSIBLE PUMP CABLE, 600V, 4C/#12AWG TWISTED JACKETED PAIGE ELECTRIC 7266SP4-12 OR EQUIVALENT	X
C1007				
C1008	3/4"	GRC	2 #14 AWG XHHW-2 (RED, WHT), 1 #14 AWG GROUND XHHW-2 (GRN)	
C1009	3/4"	GRC	1 - 2 PAIR, TWISTED SHIELDED, 16 AWG	
C1010	1"	PVC COATED	1 - EMERSON COMBO CABLE/CABLE GLAND (50FT)	X
C1011	1"	GRC	2 #12 AWG XHHW-2 (RED, WHT), 1 #12 AWG GROUND XHHW-2 (GRN)	
C1012	1"	PVC COATED	2 #12 AWG XHHW-2 (RED, WHT), 1 #12 AWG GROUND XHHW-2 (GRN)	
C2001	1 1/2"	PVC COATED	3 #6 AWG XHHW-2 (BRN, ORG, YEL), 1 #6AWG GROUND XHHW-2 (GRN)	
C2002	1"	GRC	2 #14 AWG XHHW-2 (RED, WHT), 1 #14 AWG GROUND XHHW-2 (GRN) 1 CAMPBELL SCIENTIFIC POWER CABLE	
C2003	1"	GRC	1 - SANTOPRENE CONTROL CABLE, INTEGRAL W/ LEVEL PROBE 1 - 2 PAIR, TWISTED SHIELDED, 16 AWG	X
C2004	1"	GRC	1 - SANTOPRENE CONTROL CABLE, INTEGRAL W/ LEVEL PROBE 1 - HYTREL, 5 #26AWG, INTEGRAL W/ TRANSMITTER	X X
C2005				
C2006	1"	PVC COATED	3 #10 AWG XHHW-2 (BRN, ORG, YEL), 1 #10 AWG GROUND XHHW-2 (GRN) SPlice IN WELLHEAD JUNCTION BOX TO 1 - SUBMERSIBLE PUMP CABLE, 600V, 4C/#12AWG TWISTED JACKETED PAIGE ELECTRIC 7266SP4-12 OR EQUIVALENT	X
C2007				
C2008	3/4"	GRC	2 #14 AWG XHHW-2 (RED, WHT), 1 #14 AWG GROUND XHHW-2 (GRN)	
C2009	3/4"	GRC	1 - 2 PAIR, TWISTED SHIELDED, 16 AWG	
C2010	1"	PVC COATED	1 - EMERSON COMBO CABLE/CABLE GLAND (50FT)	X
C2011	1"	GRC	2 #12 AWG XHHW-2 (RED, WHT), 1 #12 AWG GROUND XHHW-2 (GRN)	
C2012	1"	PVC COATED	2 #12 AWG XHHW-2 (RED, WHT), 1 #12 AWG GROUND XHHW-2 (GRN)	
C3001	1 1/2"	PVC COATED	3 #6 AWG XHHW-2 (BRN, ORG, YEL), 1 #6AWG GROUND XHHW-2 (GRN)	
C3002	1"	GRC	2 #14 AWG XHHW-2 (RED, WHT), 1 #14 AWG GROUND XHHW-2 (GRN) 1 CAMPBELL SCIENTIFIC POWER CABLE	
C3003	1"	GRC	1 - SANTOPRENE CONTROL CABLE, INTEGRAL W/ LEVEL PROBE 1 - 2 PAIR, TWISTED SHIELDED, 16 AWG	X
C3004	1"	GRC	1 - SANTOPRENE CONTROL CABLE, INTEGRAL W/ LEVEL PROBE 1 - HYTREL, 5 #26AWG, INTEGRAL W/ TRANSMITTER	X X
C3005				
C3006	1"	PVC COATED	3 #10 AWG XHHW-2 (BRN, ORG, YEL), 1 #10 AWG GROUND XHHW-2 (GRN) SPlice IN WELLHEAD JUNCTION BOX TO 1 - SUBMERSIBLE PUMP CABLE, 600V, 4C/#12AWG TWISTED JACKETED PAIGE ELECTRIC 7266SP4-12 OR EQUIVALENT	X

CONDUIT SCHEDULE				
CONDUIT	SIZE	TYPE	FILL	PROVIDED BY COMPANY
C3007				
C3008	3/4"	GRC	2 #14 AWG XHHW-2 (RED, WHT), 1 #14 AWG GROUND XHHW-2 (GRN)	
C3009	3/4"	GRC	1 - 2 PAIR, TWISTED SHIELDED, 16 AWG	
C3010	1"	PVC COATED	1 - EMERSON COMBO CABLE/CABLE GLAND (50FT)	X
C3011	1"	GRC	2 #12 AWG XHHW-2 (RED, WHT), 1 #12 AWG GROUND XHHW-2 (GRN)	
C3012	1"	PVC COATED	2 #12 AWG XHHW-2 (RED, WHT), 1 #12 AWG GROUND XHHW-2 (GRN)	

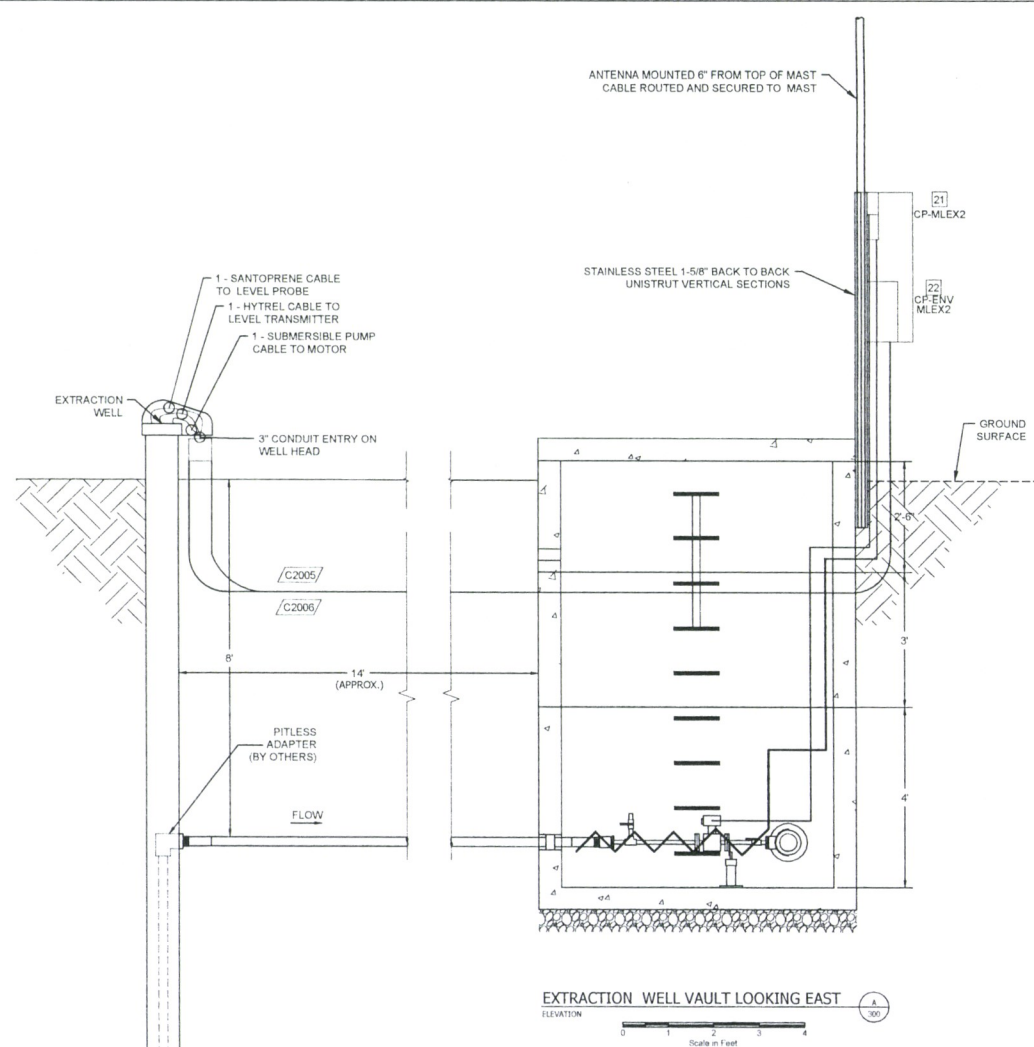
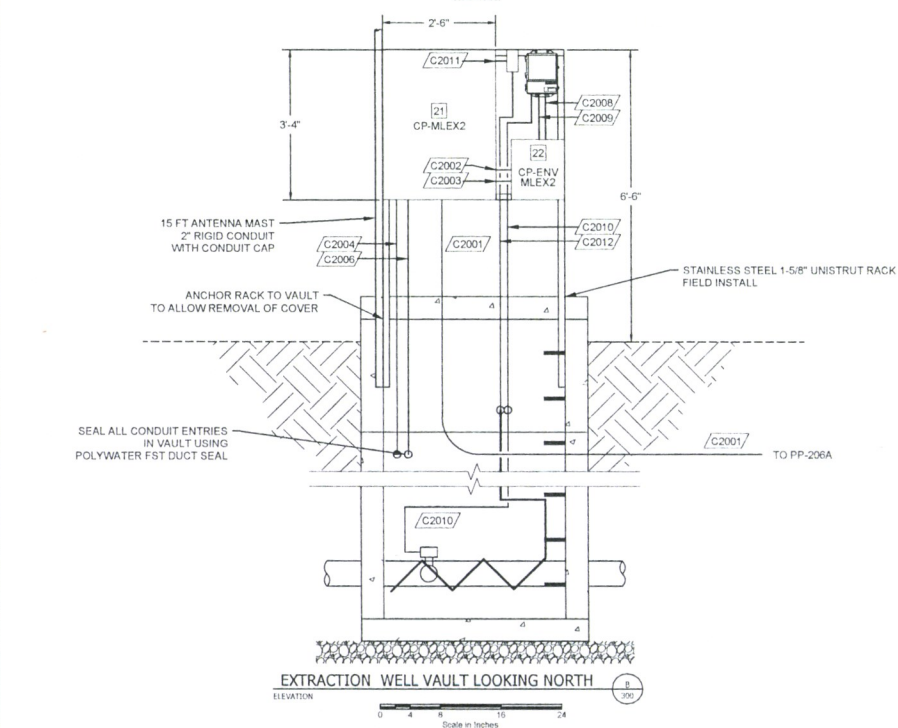
NOTES:

- 1 SPlice SUBMERSIBLE PUMP CABLE, 600V, 4C/#12AWG TWISTED JACKETED, PAIGE ELECTRIC 7266SP4-12 OR EQUIVALENT, TO MOTOR LEADS USING SPlice KIT, CONNECTIONS BY PUMP INSTALLATION CONTRACTOR


DWG. NO.	REFERENCE DRAWINGS	DESCRIPTION OF REVISION	DATE	BY	APP BY	ENGR.	CAW	01/20/2014
		△ ISSUE FOR CONSTRUCTION	08/15/14	CW	SR			01/22/2014
		△ MLEX1 AS BUILT	01/05/15	CW	SW			
		△ PHASE II ISSUE FOR BID	05/04/15	SMS	SMS			
		△ PHASE II ISSUE FOR CONSTRUCTION	05/26/15	SMS	SMS			
SCALE						AS SHOWN	SAFETY APP BY:	

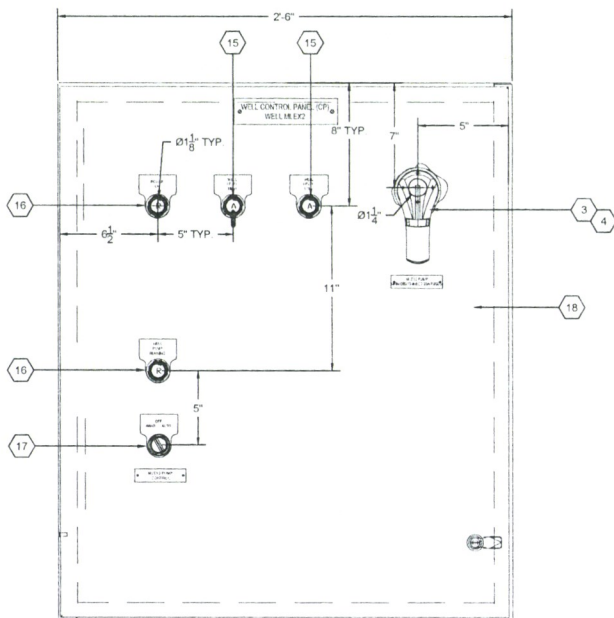


HENDERSON MILL		
TAILINGS & WATER SITES EXTRACTION WELLFIELD POLE 206A CONDUIT SCHEDULE		
5-7-9020	SHT 23 OF	REV. A

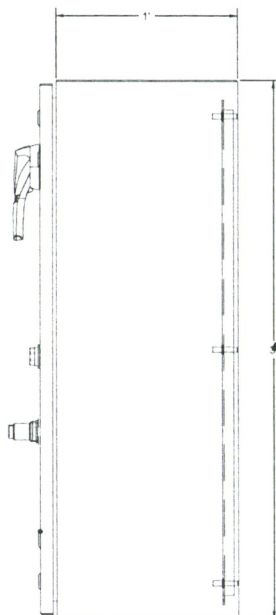


- NOTES CONT'D:
- 4 ALL BURIED CONDUIT TO BE MINIMUM 30" BELOW GRADE
 - 5 ALL BURIED CONDUIT TO BE TYPE SHED 80 PVC WITH STUB UPS AND CONDUIT PENETRATIONS TO BE PVC COATED RGS
 - 6 CONDUIT THROUGH VAULT RGS

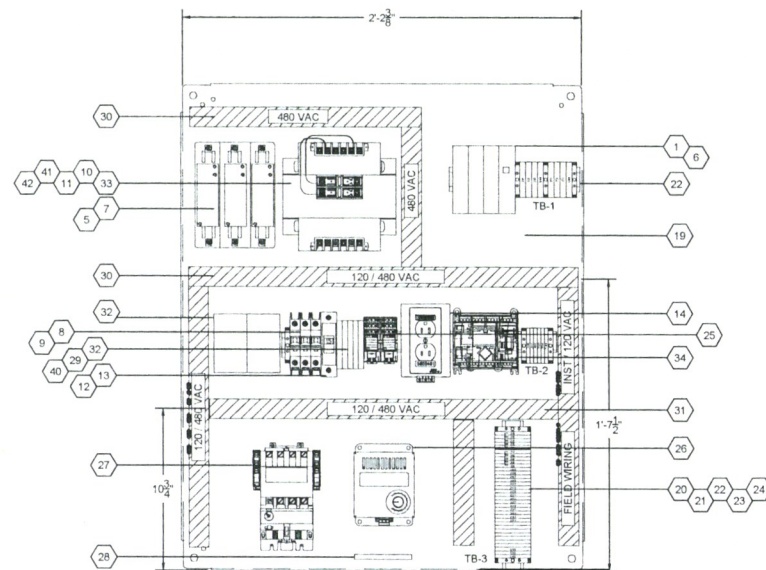
DWG. NO.	REFERENCE DRAWINGS	DESCRIPTION OF REVISION	DATE	BY	APP BY	ENGR	CAW	04/10/14	 <div>HENDERSON OPERATIONS Climax Molybdenum <i>A Freeport-McMoRan Company</i> <small>EMPIRE / PARRSHALL, COLORADO</small> <small>303-569-3221</small></div>	HENDERSON MILL		
		△ PHASE II ISSUE FOR BID	05/04/15	SMS	SMS	DRAWN BY	CAW	04/10/14		TAILINGS & WATER SITES		
		△ PHASE II ISSUE FOR CONSTRUCTION	05/28/15	SMS	SMS	CHECKED BY				EXTRACTION WELLFIELD		
		△				APPROVED BY				MLEX2 MANHOLE GA		
		△				APPROVED BY						
					SCALE	AS SHOWN	SAFETY APP BY		5-7-9020 SHT 43 OF REV.			



1 FRONT VIEW - ASSEMBLED
SCALE: 0'-3" = 1'-0"



2 SIDE VIEW
SCALE: 0'-3" = 1'-0"



3 INTERNAL (SUBPANEL) VIEW
SCALE: 0'-3" = 1'-0"

GENERAL NOTES:

- 1 PANEL SHALL BE FABRICATED PER UL508A
- 2 SEE SHEET 52 FOR BILL OF MATERIAL AND NAMEPLATE SCHEDULE

DWG. NO.	REFERENCE DRAWINGS	DESCRIPTION OF REVISION	DATE	BY	APP BY	ENGR	CJM/GEO	10/03/14
	GEOTECH WELL PUMP MLEX1 CONTROL SYSTEM	PHASE II ISSUE FOR BID	05/04/15	SMS	SMS	DRAWN BY	CJM/GEO	10/03/14
		PHASE II ISSUE FOR CONSTRUCTION	05/26/15	SMS	SMS	CHECKED BY	CW	01/15/14
						APPROVED BY		
						APPROVED BY		
						SAFETY APP BY		
						SCALE	AS SHOWN	

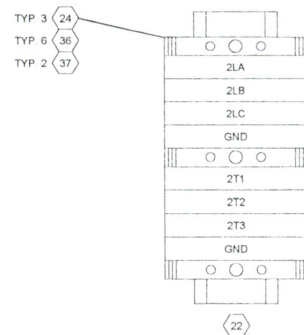
HENDERSON OPERATIONS

 A Freeport-McMoRan Company
 EMPIRE / PARSHALL, COLORADO
 303.569.3221

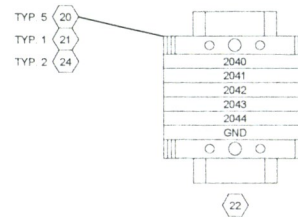
HENDERSON MILL
 TAILINGS & WATER SITES
 EXTRACTION WELLFIELD
 MLEX2 PANEL LAYOUT

5-7-9020 SHT 50 OF REV A

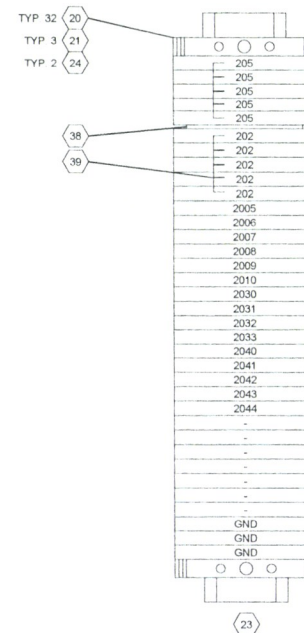
TERMINAL BLOCK LAYOUT (TB-1)



TERMINAL BLOCK LAYOUT (TB-2)



TERMINAL BLOCK LAYOUT (TB-3)




NOTES:

- 1 PANEL SHALL BE FABRICATED PER UL508A
- 2 REFERENCE SHEET 52 FOR BILL OF MATERIALS AND NAMEPLATE SCHEDULE

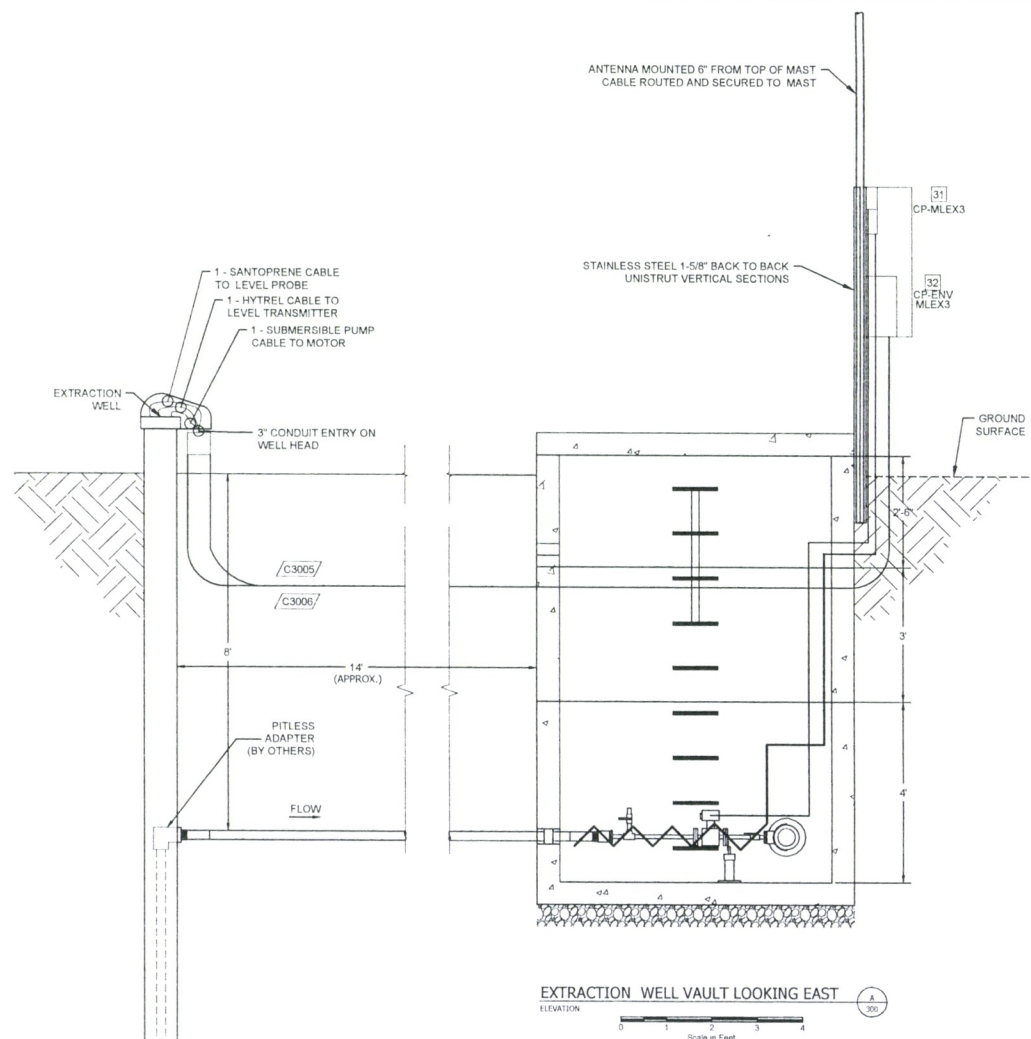
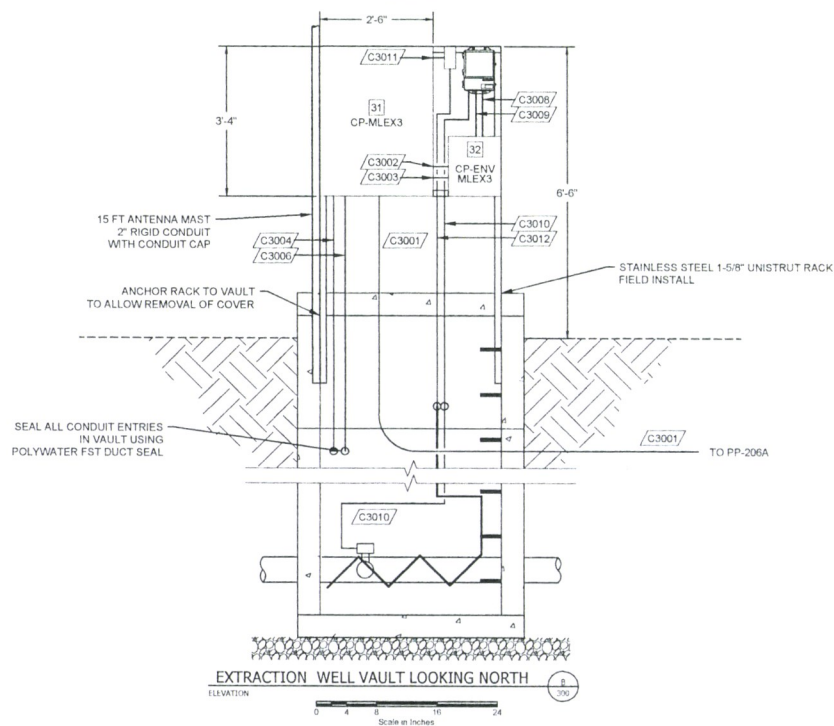
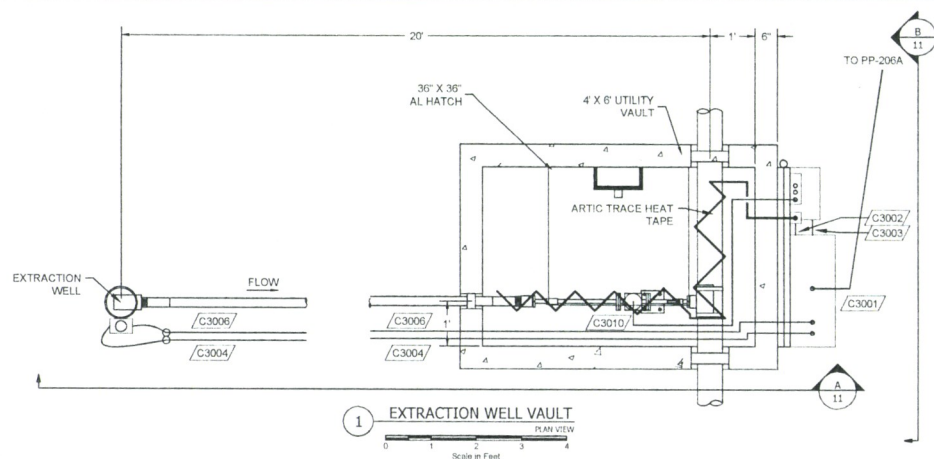
1 POWER TERMINAL BLOCK LAYOUTS

DWG. NO.	REFERENCE DRAWINGS	DESCRIPTION OF REVISION	DATE	BY	APP BY	ENGR	SS/FMI	05/04/15
		△ PHASE II ISSUE FOR BID	05/04/15	SMS	SMS	DRAWN BY	SS/FMI	05/04/15
		△ PHASE II ISSUE FOR CONSTRUCTION	05/28/15	SMS	SMS	CHECKED BY		
		△				APPROVED BY		
		△				APPROVED BY		
		△			SCALE	AS SHOWN	Safety App By	

HENDERSON OPERATIONS

A Freeport-McMoRan Company
EMPIRE / PARSHALL, COLORADO
303-569-3221

HENDERSON OPERATION
 TAILINGS & WATER SITES
 EXTRACTION WELLFIELD
 MLEX2 TERMINAL LAYOUT

5-7-9020	SHT 51 OF	REV	
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- NOTES
- 1 EXTRACTION WELL DETAILS BY OTHERS
 - 2 PIPING DETAILS BY OTHERS
 - 3 REFERENCE SHEETS 21 & 23 FOR CONDUIT ONE LINE AND CONDUIT SCHEDULE

- NOTES CONT'D
- 4 ALL BURIED CONDUIT TO BE MINIMUM 30\"/>
 - 5 ALL BURIED CONDUIT TO BE TYPE SHED 80 PVC WITH STUB UPS AND CONDUIT PENETRATIONS TO BE PVC COATED RGS
 - 6 CONDUIT THROUGH VAULT RGS

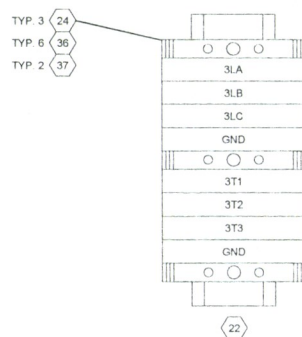
DWG. NO.	REFERENCE DRAWINGS	DESCRIPTION OF REVISION	DATE	BY	APP BY	ENGR	CAW	04/10/14
		PHASE II ISSUE FOR BID	05/04/15	SMS	SMS		DRAWN BY	CAW 04/10/14
		PHASE II ISSUE FOR CONSTRUCTION	05/26/15	SMS	SMS		CHECKED BY	
							APPROVED BY	
							APPROVED BY	
							SAFETY APP BY	
						SCALE	AS SHOWN	

HENDERSON OPERATIONS
Climax Molybdenum
 A Freeport-McMoRan Company
 EMPIRE / PARSHALL, COLORADO
 303.599.3221

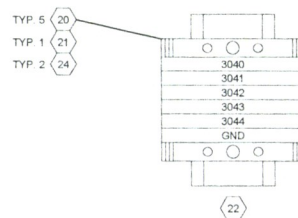
HENDERSON MILL
 TAILINGS & WATER SITES
 EXTRACTION WELLFIELD
 MLEX3 MANHOLE GA

5-7-9020 SHT 63 OF REV A

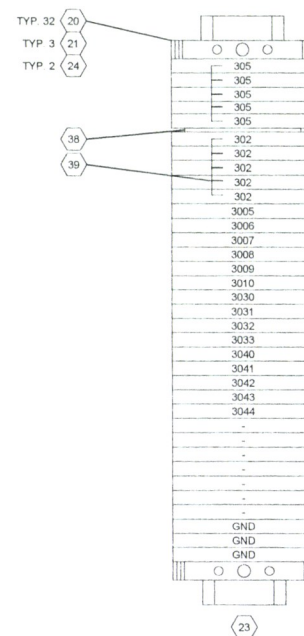
TERMINAL BLOCK LAYOUT (TB-1)



TERMINAL BLOCK LAYOUT (TB-2)



TERMINAL BLOCK LAYOUT (TB-3)



1 POWER TERMINAL BLOCK LAYOUTS


SCALE: 1'-0" = 1'-0"

NOTES:

- 1 PANEL SHALL BE FABRICATED PER UL508A
- 2 REFERENCE SHEET 72 FOR BILL OF MATERIALS AND NAMEPLATE SCHEDULE

DWG NO	REFERENCE DRAWINGS	DESCRIPTION OF REVISION	DATE	BY	APP BY	ENGR	SS/FMI	05/04/15
		PHASE II ISSUE FOR BID	05/04/15	SMS	SMS	DRAWN BY	SS/FMI	05/04/15
		PHASE II ISSUE FOR CONSTRUCTION	05/26/15	SMS	SMS	CHECKED BY		
						APPROVED BY		
						APPROVED BY		
					SCALE	AS SHOWN		

HENDERSON OPERATIONS



Climax Molybdenum

A Freeport-McMoRan Company

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303.559.3221

HENDERSON OPERATIONS

TAILINGS & WATER SITES
EXTRACTION WELLFIELD
MLEX3 TERMINAL LAYOUT

5-7-9020 SHT 71 OF REV

NO.	REFERENCE DRAWINGS	DESCRIPTION OF REVISION
	WELL PUMP MLEX3 CONTROL SYSTEM	△ PHASE II ISSUE FOR BID
		△ PHASE II ISSUE FOR CONSTRUCTION
		△
		△
		△

GENERAL NOTES:

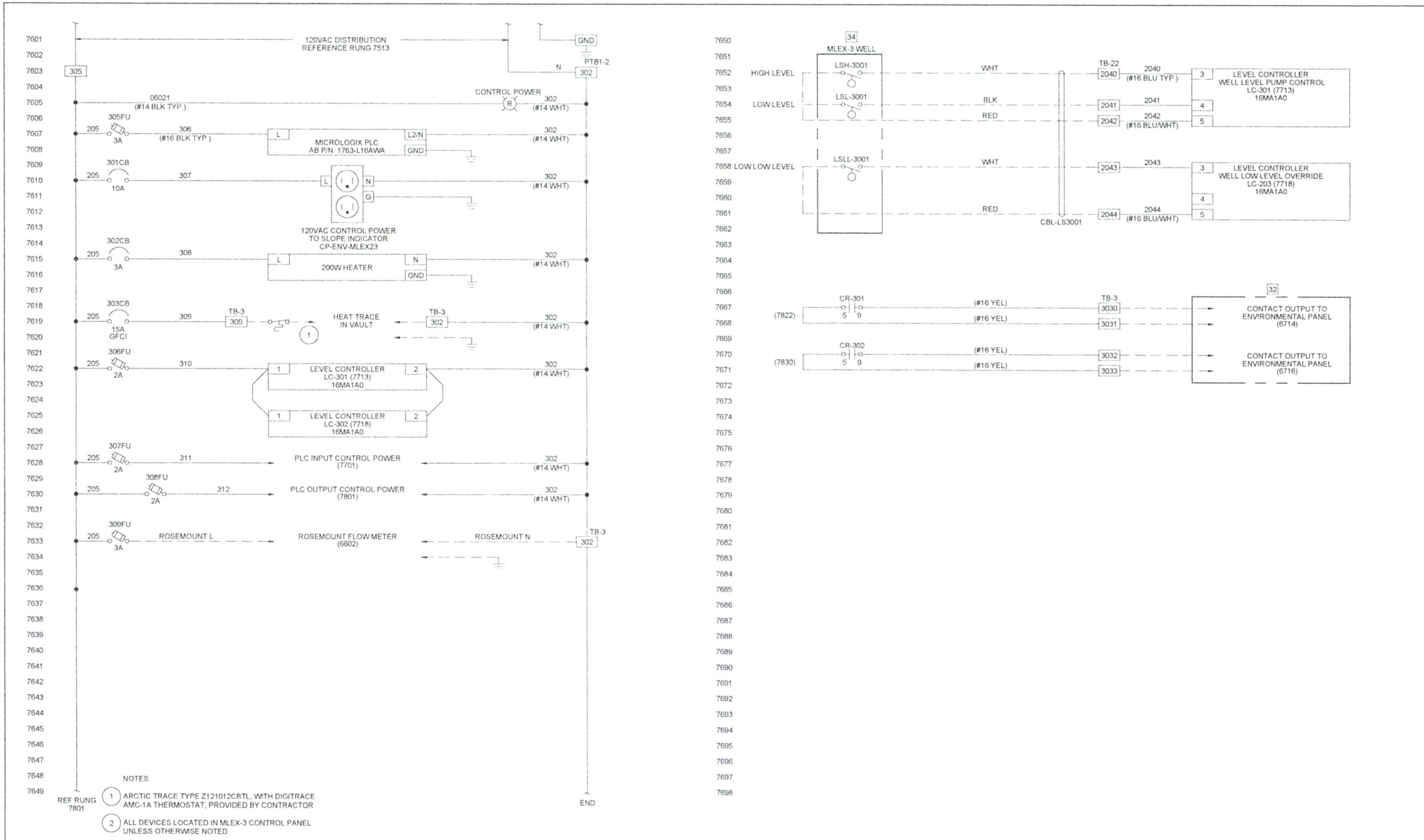
1) PANEL SHALL BE FABRICATED PER UL508A

HENDERSON MILL TAILINGS & WATER SITES EXTRACTION WELLFIELD MLEX3 BILL OF MATERIAL		
5-7-9020	SHT 72 OF	REV. A



HENDERSON OPERATIONS

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 EMPIRE / PARSHALL, COLORADO
 303.569.3221



DWG. NO.	REFERENCE DRAWINGS	DESCRIPTION OF REVISION	DATE	BY	APP BY	ENGR.	CJM/GEO	10/03/14
	WELL PUMP MLEX3 CONTROL SYSTEM	PHASE II ISSUE FOR BID	05/04/15	SMS	SMS	DRAWN BY:	CJM/GEO	10/03/14
		PHASE II ISSUE FOR CONSTRUCTION	05/26/15	SMS	SMS	CHECKED BY:	CW	01/15/14
						APPROVED BY:		
						APPROVED BY:		
						SAFETY APP BY:		
						SCALE:	AS SHOWN	

HENDERSON OPERATIONS <i>Climax Molybdenum</i> A Freeport-McMoRan Company 303.569.3221	HENDERSON MILL TAILINGS & WATER SITES EXTRACTION WELLFIELD MLEX3 120VAC DISTRIBUTION 5-7-9020 SHT 76 OF REV
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December 10, 2015

Transmitted by E-mail

Mr. Timothy Haynes
Climax Molybdenum Company – Henderson Operations
P.O Box 68
Empire, Colorado 80438

**Subject: Ute Park Extraction Wellfield - Phase II - Technical Revision 25 (TR-25)
Certification, Henderson Mill, Permit No. M-1977-342**

Dear Mr. Haynes:

AJAX Mountain Enterprises LLC (dba AJAX Ltd) and Clear Creek Associates PLC (Clear Creek) are submitting this letter certifying the installation of Phase II extraction and monitor wells, in accordance with the requirements of TR-25, dated April 29, 2015. Per TR-25, a new extraction wellfield is being installed east of the Henderson Mill Tailing Storage Facility (TSF) 1-Dam. The existing extraction wellfield permitted under TR-10 will eventually be replaced by this new wellfield as it is fully built-out over the next few years.

The construction of the wellfield is anticipated to be completed in three phases, as shown in Figure 1. This will allow for its effectiveness to be evaluated as the project progresses. The 2014 installation of the Phase I extraction well, MLEX-1, and monitor wells, MLGW-21 and MLGW-22 provided additional characterization of the Quaternary sediments aquifer, and this information was utilized to design the Phase II wells.

The Phase II extraction wells, MLEX-2 and MLEX-3, were installed in August 2015 and the wells were commissioned in November 2015 following completion of the associated piping, electrical, and instrumentation activities. MLEX-2 penetrated the base of the Quaternary sediments aquifer system at a depth of 63 feet and was screened from 23 to 63 feet. MLEX-3 penetrated the base of the Quaternary sediment aquifer at a depth of 56 feet. This well was screened from 26 to 56 feet. The extraction wells were completed with 8-inch stainless steel casing and well screens consisted of 0.06-inch stainless steel wire-wrap casing. As-Built drawings for MLEX-2 and MLEX-3 are included as Figures 2 and 3.

The extraction wells were developed by swabbing, bailing, and pumping. Following well development, eight-hour step-tests and 48-hour constant rate pump tests were performed on both wells. Testing indicated that MLEX-2 is generally efficient at pumping rates of up to 20 gallons per minute (gpm) while MLEX-3 is efficient at rates up to 30 gpm.


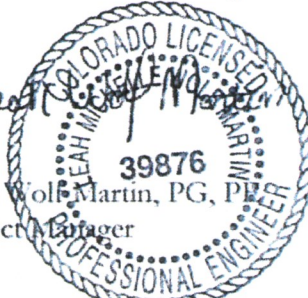
Downgradient deep/shallow well pair, MLGW-23/MLGW-24, were drilled to depths of 127.5 and 39 feet, respectively, with the base of the Quaternary sediment aquifer identified at 125 feet in MLGW-23. Both monitor wells were constructed with Schedule-80 PVC and 0.04 inch slotted PVC

screen. The monitor wells were screened from 105 to 125 feet bgs and 25 to 35 feet bgs for MLGW-23 and MLGW-24, respectively. As-Built drawings for the two monitor wells are included as Figures 4 and 5. These monitor wells are not considered an environmental protection facility (EPF); however, they will be used to monitor the effectiveness of the extraction wellfield.

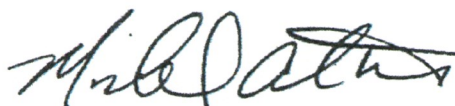
The installation of the Phase II extraction and monitor wells meets the intent of the TR-25 submittal. The effectiveness and performance of the system will continue to be monitored and evaluated using the current monitoring well network. These data can be used to adapt or modify the system in future phases to maximize the capture of groundwater as was intended in the original design. Phase III may consist of two or three more extraction wells and will be scoped following performance monitoring of the Phase I and II wells. Please let us know if you have any additional questions.

Sincerely,

AJAX Mountain Enterprises LLC

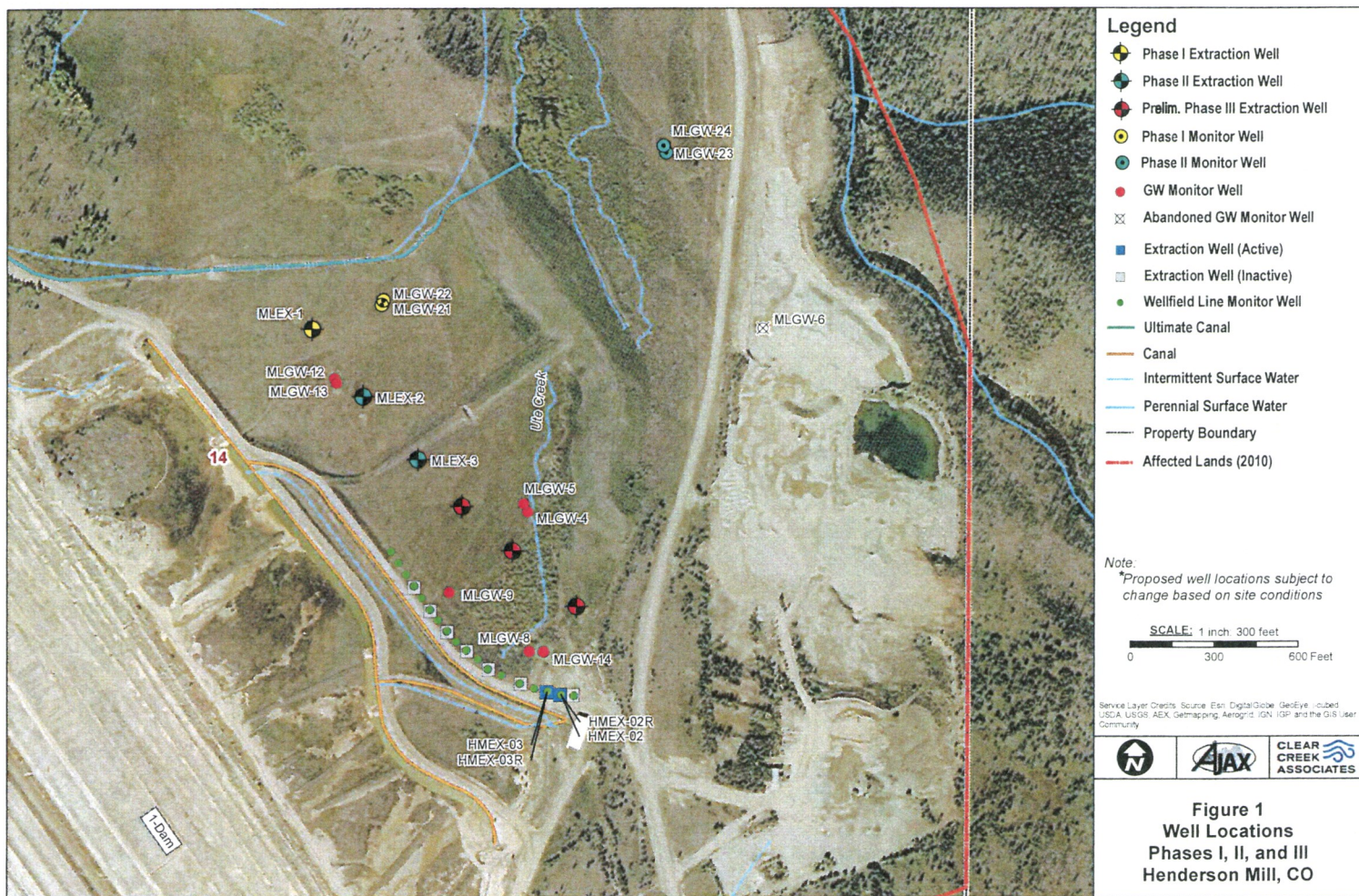


Leah Wolf Martin, PG, PE
Project Manager

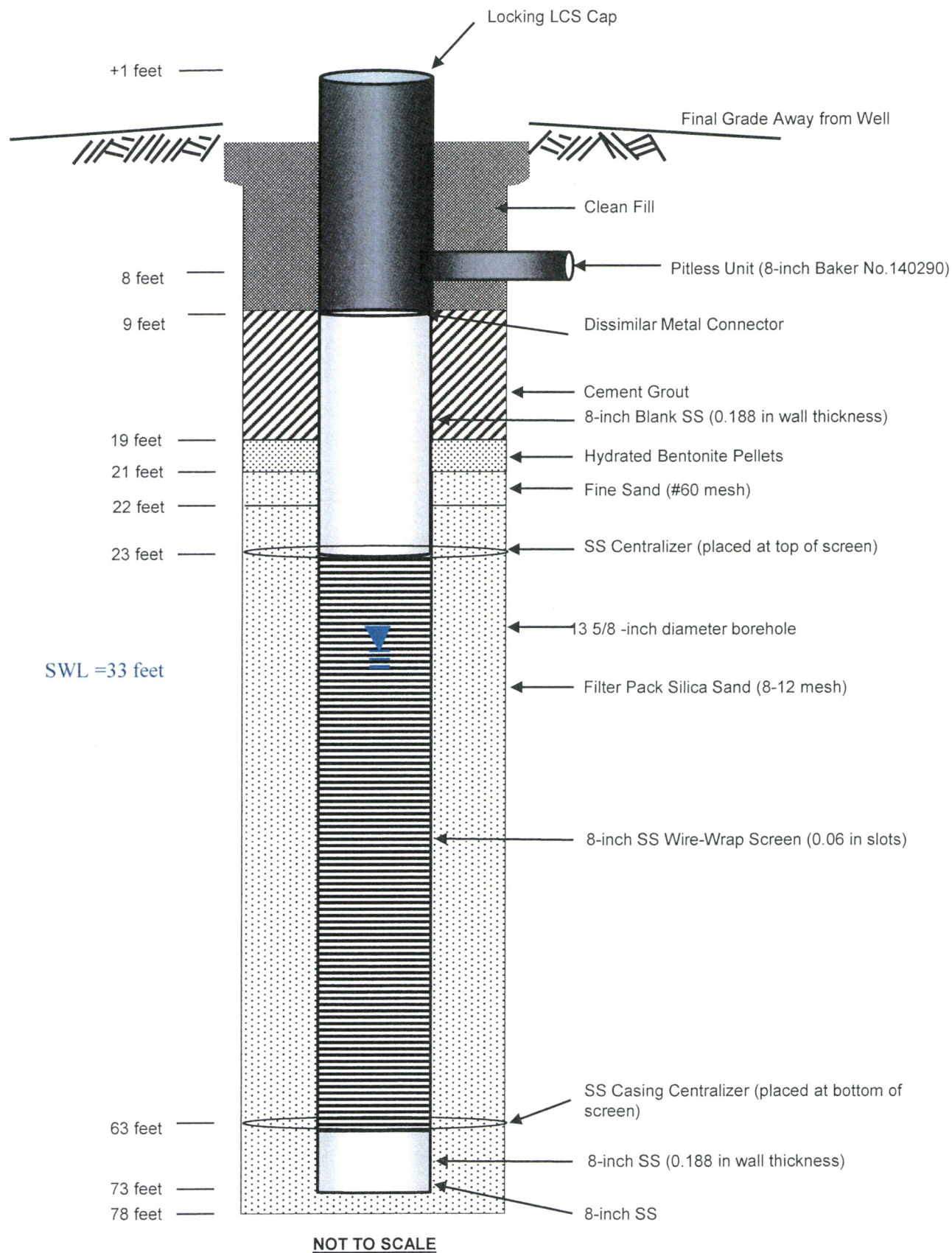
Clear Creek Associates, PLC



Michael Alter, RG
Principal Hydrogeologist

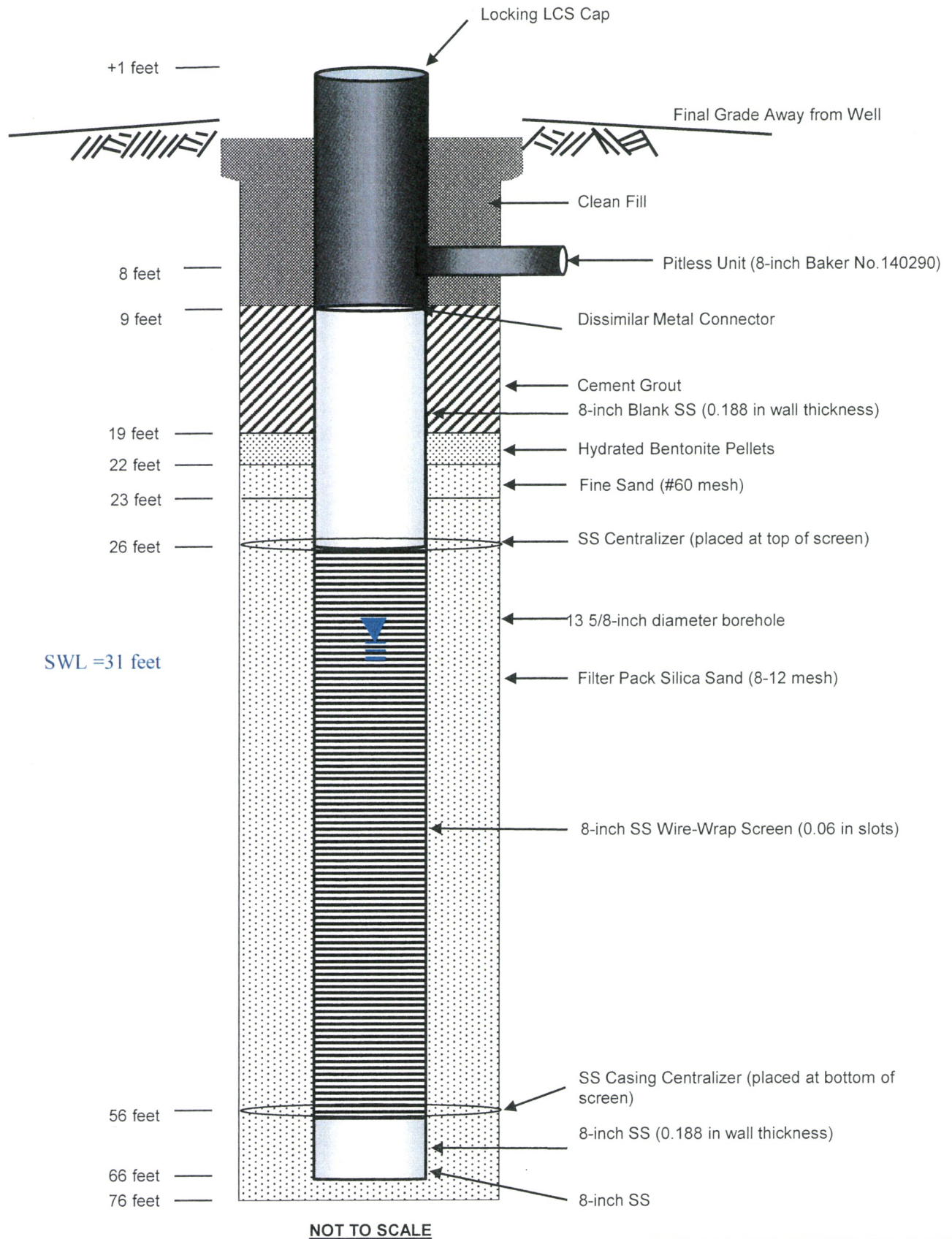
FIGURES





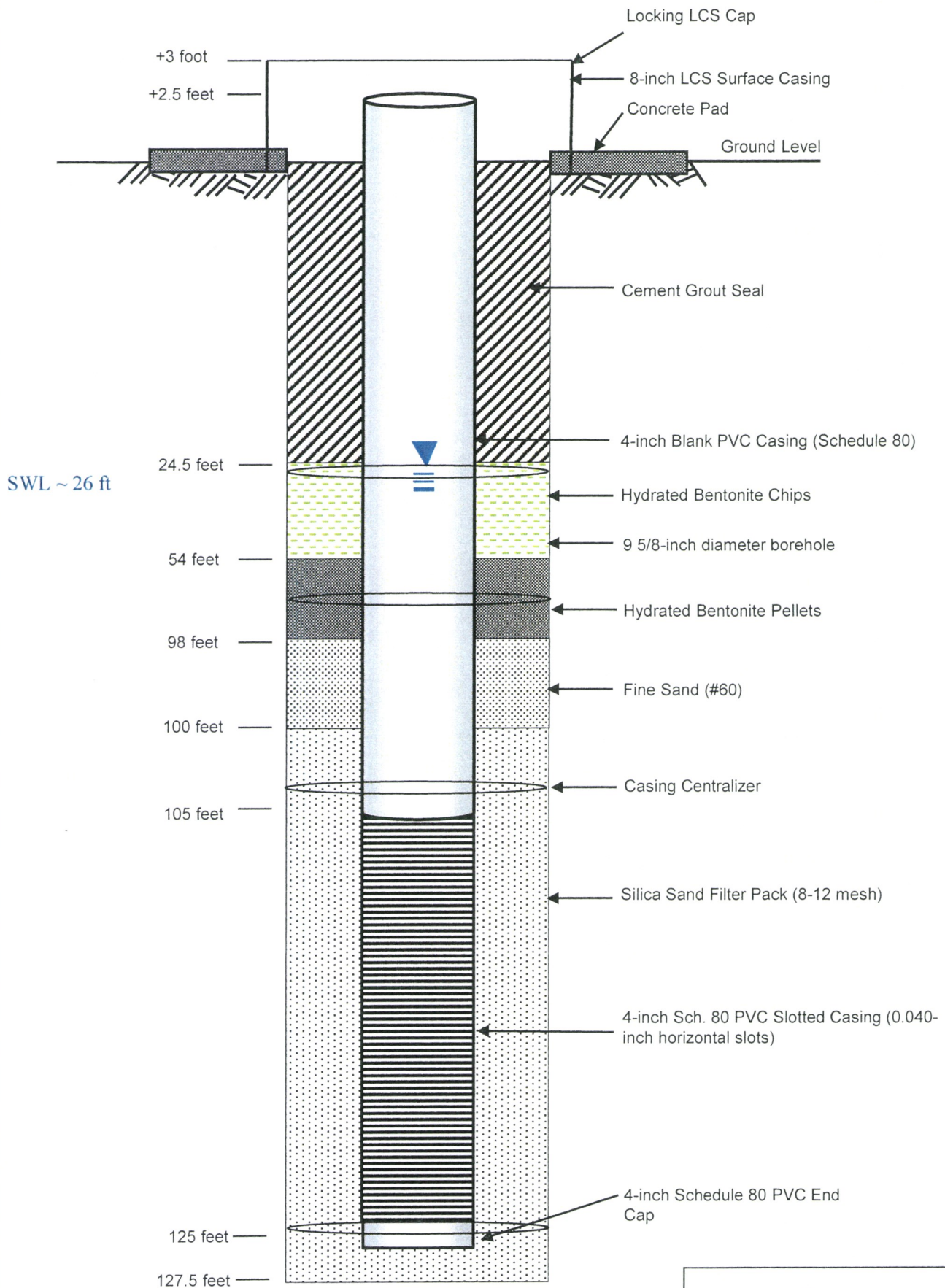
Notes: SS = Stainless Steel Type 304L
 LCS = low carbon steel
 Constructed on August 19, 2015

Figure 2
 As-Built
 MLEX-2



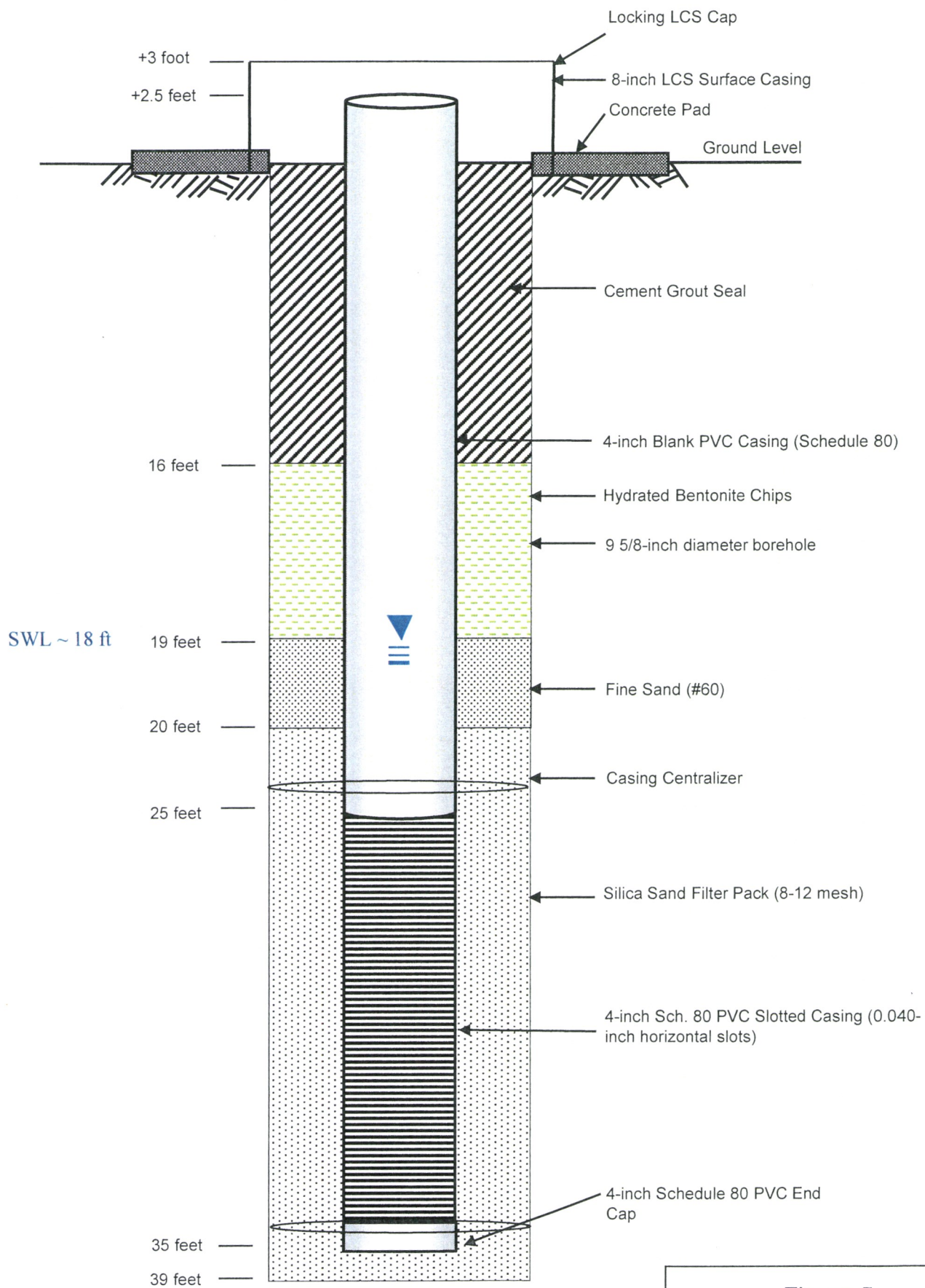
Notes: SS = Stainless Steel Type 304L
LCS = low carbon steel
Constructed on August 22, 2015

Figure 3
As-Built
MLEX-3



Notes: PVC = Polyvinyl chloride
LCS = low carbon steel
Constructed on August 26, 2015

Figure 4
As-Built
MLGW-23



Notes: PVC = Polyvinyl chloride
LCS = low carbon steel
Constructed on August 27, 2015

Figure 5
As-Built
MLGW-24

Environmental Protection Facility Certification

Henderson Mill – Permit No. M-1977-342

Technical Revision 25

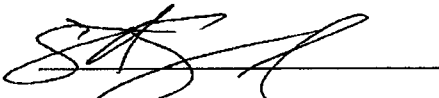
Ute Park Extraction Wellfield Project – Phase II

The Ute Park Extraction Wellfield Project – Phase II was approved as Technical Revision No. 25 to Mill Permit No. M-1977-342 on April 25, 2015. This project is located at Climax Molybdenum Company's Henderson Mill in Grand County. The project involved the construction of two extraction wells and support infrastructure, including pipeline, vault, electrical power line, and instrumentation at locations downgradient from 1 Dam at the Mill.

The Henderson Mill and contractors have substantially completed the construction of the project and it has been tested and determined to be functional. The systems were designed and installed to meet applicable electrical codes and Henderson design requirements.

Modifications to the initial design have been reflected in the record drawings for MLEX-2 and MLEX-3.

FMI EIS group was responsible for the design coordination and implementation of the electrical systems. The project was completed in general conformance with the approved design as submitted to the Division of Reclamation, Mining, and Safety. The statement is based in part on information provided by others.



Scott Sandoval
Henderson Mill

12/10/15

Date

Environmental Protection Facility Certification

Henderson Mine – Permit No. M-1977-342

Technical Revision 25

Ute Park Extraction Wellfield Project –Phase II

The Ute Park Extraction Wellfield Project –Phase II was approved as Technical Revision No. 25 to Mine Permit No. M-1977-342 on May 11, 2015. This project is located at Climax Molybdenum Company's Henderson Mill in Grand County. The project involved the construction of two extraction wells and support infrastructure, including a pipeline, vaults, electrical power line, and instrumentation at a location downgradient from 1 Dam at the Mill. The undersigned was responsible for the design of the pipeline and measurement vaults.

The Henderson Mill and contractors have substantially completed the construction of the project and it has been tested and determined to be functional. Record Drawings of the project are attached. Also attached is a memorandum dated October 9, 2015, describing the results of the hydrostatic pressure test of the discharge pipeline.

Pursuant to Rule 7.3.2, the Professional Engineer that has signed and sealed below certifies that the project was completed in general conformance with the approved design as submitted to the Division of Reclamation, Mining, and Safety. This statement is based in part on information that has been provided by others.



Steven M. Maly, P.E.
W. W. Wheeler and Associates, Inc.

Nov. 23, 2015
Date

 **Climax Molybdenum**
A Freeport-McMoRan Company



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State of Colorado
Div. of Reclamation, Mining & Safety
1313 Sherman Street, Rm 215
Denver, CO 80203
Attn: Mr. Peter Hays

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JAN 15 2016

DIVISION OF RECLAMATION
MINING & SAFETY



Environmental Protection Facility Certification

Henderson Mill – Permit No. M-1977-342

Technical Revision 25

Ute Park Extraction Wellfield Project – Phase II

The Ute Park Extraction Wellfield Project – Phase II was approved as Technical Revision No. 25 to Mill Permit No. M-1977-342 on April 25, 2015. This project is located at Climax Molybdenum Company's Henderson Mill in Grand County. The project involved the construction of two extraction wells and support infrastructure, including pipeline, vault, electrical power line, and instrumentation at locations downgradient from 1 Dam at the Mill.

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Scott Sandoval
Henderson Mill



12/10/15
Date