MSE Daily Field Summary

Project:	**Longshot Mine Removal Action**
Project Number:	3149
Location:	Colville National Forest
Field Personnel:	Bob Lambeth
USFS Personnel:	Rod Lentz
Date:	10/21/2011

FIELD CONDITIONS

Weather: Sunny **Partly cloudy** Cloudy Rain Snow Temp **45°F**

Precipitation: **Dry** Recent Current Wind: 0 **<5** 5-15 15-30 >30

VISITORS TO THE SITE

Name	Company:	Purpose of Visit:
Bob Lambeth	MSE	Reclamation Oversight
Lyle Palm	Palm Construction, Inc.	Reclamation Activities
Jerry Palm	Palm Construction, Inc.	Reclamation Activities
John McCombs	Palm Construction, Inc.	Reclamation Activities
Les Palm	Palm Construction, Inc.	Reclamation Activities

FIELD WORK SUMMARY

9:00 am Drove from home to Colville - Mobilization

10:30 am Arrived in Colville, WA to met Rod Lentz and inspect Palm Construction equipment. Les Palm did not arrive with his truck, lowboy, and excavator until later. We inspected two trucks, lowboys, and excavators.

12:30 pm Left for Longshot Mine with Lyle and John to move equipment in. Jerry took a crew trailer to an RV lot.

1:00 pm Arrived on site and offloaded equipment. Lyle, John, and I toured the site and discussed Scope of Work. Jerry arrived at 2:30 pm.

4:30 pm Bob returned to Spokane. The Palm crew returned to Winthrop for the weekend.

MSE Daily Field Summary

Project:	**Longshot Mine Removal Action**
Project Number:	3149
Location:	Colville National Forest
Field Personnel:	Bob Lambeth
USFS Personnel:	
Date:	10/24/2011

FIELD CONDITIONS

Weather: Sunny **Partly cloudy** Cloudy Rain Snow Temp **35°F**

Precipitation: **Dry** Recent Current Wind: 0 **<5** 5-15 15-30 >30

VISITORS TO THE SITE

Name	Company:	Purpose of Visit:
Bob Lambeth	MSE	Reclamation Oversight
Lyle Palm	Palm Construction, Inc.	Reclamation Activities
Les Palm	Palm Construction, Inc.	Reclamation Activities
John McCombs	Palm Construction, Inc.	Reclamation Activities

FIELD WORK SUMMARY

9:00 am Bob received foreign travel shots at Spokane County Health District before driving to the Longshot Mine.

10:00 am Drove to Longshot; arrived at 12 Noon.

12:00 pm Palm's crew arrived at 12:05 PM after spending the weekend in Twisp to bring light equipement back to the Longshot (welder, iron stock, smaller excavator bucket, etc.). Reviewed activites for the day with Palm crew.

The crew brushed all roads and trails as needed for access to the wood and metal scrap as well as the Upper Adit.

The spur road to the mill foundations was opened to access and grubbed. Stockpiles for all grubbed brush were located. The Spur Road was improved adequately for dump trucks, but new fill was not necessary.

The crew initiated stockpiling of scrap for later loading and transporting to the Stevens county Landfill.

5:00 pm Bob returned to Spokane, arriving at 6:30 pm.

MSE Daily Field Summary

Project:	**Longshot Mine Removal Action**
Project Number:	3149
Location:	Colville National Forest
Field Personnel:	Bob Lambeth
USFS Personnel:	
Date:	10/25/2011

FIELD CONDITIONS

Weather: Sunny Partly cloudy **Cloudy** Rain Snow Temp **45°F**

Precipitation: Dry **Recent** Current Wind: **0** <5 5-15 15-30 >30

VISITORS TO THE SITE

Name	Company:	Purpose of Visit:
Bob Lambeth	MSE	Reclamation Oversight
Lyle Palm	Palm Construction, Inc.	Reclamation Activities
Les Palm	Palm Construction, Inc.	Reclamation Activities
John McCombs	Palm Construction, Inc.	Reclamation Activities
Jerry Palm	Palm Construction, Inc.	Reclamation Activities

FIELD WORK SUMMARY

8:00 am Drove to Longshot; arrived at 9:30 am. Check on status of debris removal.

10:00 am Bob drove to Colville to obtain supplies and chisels to get wood samples from the mill debris for TCLP tests.

11:00 am Bob returned to the Longshot and obtained one composite sample of wood shaving from the old mill structure wood in contact with ore and partially processed ore. This sample analysis is to be completed overnight to determine if the wood passes TCLP and can be disposed of in the County Landfill or must be transported to Arlington, Oregon. Watched the Palm crew remove scrap and transport 5 loads to the landfill. The wood as was anticipated exceeded the EECA volume estimation, because of the high void percentage. The crew began to raze and stockpile collapsed mill structure wood. The access road to the Gloryhole was improved, and Palm excavated WR-3 and deposited it in the Gloryhole. Removal of ore and partially processed ore was initiated.

Bob and Jerry picked up the USFS bat culvert in Kettle Falls for transport to the site.

5:00 pm Bob returned to Spokane, arriving at 6:30 pm.

Debris Removed = 5 loads (50 lcy)

Waste Rock Removed = 8 loads (80 bcy, WR3)

MSE Daily Field Summary

Project:	**Longshot Mine Removal Action**
Project Number:	3149
Location:	Colville National Forest
Field Personnel:	Bob Lambeth
USFS Personnel:	
Date:	10/26/2011

FIELD CONDITIONS

Weather: Sunny Partly cloudy **Cloudy** Rain Snow Temp **50°F**

Precipitation: Dry **Recent** Current Wind: 0 **<5** 5-15 15-30 >30

VISITORS TO THE SITE

Name	Company:	Purpose of Visit:
Bob Lambeth	MSE	Reclamation Oversight
Lyle Palm	Palm Construction, Inc.	Reclamation Activities
Les Palm	Palm Construction, Inc.	Reclamation Activities
John McCombs	Palm Construction, Inc.	Reclamation Activities

FIELD WORK SUMMARY

8:00 am Drove wood waste sample to City Parcel for immediate delivery to SVL Analytical in Kellog, ID. The sample will be analyzed today to verify safe disposal in the Stevens County Landfill of wood in contact with ore and partially processed ore. This sample analysis is to be completed overnight to determine if the wood passes TCLP and can be disposed of in the County Landfill or must be transported to Arlington, Oregon.

9:00 am Bob returned to the Longshot, arriving at 11:00 am.

Watched the Palm crew remove scrap and transport 5 loads to the landfill. The wood as was anticipated exceeded the EECA volume estimation, because of the high void percentage. The crew began to raze and stockpile collapsed mill structure wood and continued and nearly completed removal of ore, partially processed ore, and additional sulfidic waste downhill from and around the mill foundation. The removal volume significantly exceeded that of the EECA.

5:00 pm Bob returned to Spokane, arriving at 6:30 pm.

Debris Removed = 5 loads (50 lcy)

Waste Rock Removed = 15 loads (10 bcy, Ore Bin & Foundation areas)

MSE Daily Field Summary

Project:	**Longshot Mine Removal Action**
Project Number:	3149
Location:	Colville National Forest
Field Personnel:	Bob Lambeth
USFS Personnel:	
Date:	10/27/2011

FIELD CONDITIONS

Weather: Sunny **Partly cloudy** Cloudy Rain Snow Temp **45°F**

Precipitation: Dry **Recent** Current Wind: 0 **<5** 5-15 15-30 >30

VISITORS TO THE SITE

Name	Company:	Purpose of Visit:
Bob Lambeth	MSE	Reclamation Oversight
Lyle Palm	Palm Construction, Inc.	Reclamation Activities
Les Palm	Palm Construction, Inc.	Reclamation Activities
John McCombs	Palm Construction, Inc.	Reclamation Activities

FIELD WORK SUMMARY

8:00 am Drove to the Longshot Mine, arriving at 9:45 am.

Palm was aggressively moving WR1 & WR2 Ecology material to the stope. This was completed by 3:00 pm.

Two loads of scrap from a garbage dump and the slope below the foundation was transported to the Stevens County Landfill. Additional scrap from below the mill was stockpiled.

3:00 pm Palm started fueling and mainrenance on trucks and equipment, including repairing a leaking hydraulic hose.

5:00 pm Palm treturned to Colville; Bob drove to Spokane, arriving at 7:00 pm.

Debris Removed = 2 loads (10 lcy)

Waste Rock Moved to repository = 10 loads (100 bcy Ecology material)

MSE Daily Field Summary

Project:	**Longshot Mine Removal Action**
Project Number:	3149
Location:	Colville National Forest
Field Personnel:	Eric Hieb, Bob Lambeth
USFS Personnel:	
Date:	10/28/2011

FIELD CONDITIONS

Weather: Sunny Partly cloudy **Cloudy** Rain Snow Temp **35°F**

Precipitation: Dry **Recent** Current Wind: 0 **<5** 5-15 15-30 >30

VISITORS TO THE SITE

Name	Company:	Purpose of Visit:
Eric Hieb	MSE	Reclamation Oversight
Bob Lambeth	MSE	Reclamation Oversight
Lyle Palm	Palm Construction, Inc.	Reclamation Activities
Les Palm	Palm Construction, Inc.	Reclamation Activities
John McCombs	Palm Construction, Inc.	Reclamation Activities

FIELD WORK SUMMARY

8:30 am Went to Boise's airport from home

10:30 am Landed in and left Spokane to head to Colville, WA

2:00 pm Arrived in Colville, WA and checked into local hotel

2:30 pm Left for Longshot Mine with Bob Lambeth to take some confirmation samples and XRF readings

3:00 pm Arrived on site. With the exception of the Gloryhole area, all wasterock has been deposited in the stope.

5:30 pm Tour of the site (upper/lower adit, wasterock piles (WR), stope, access road). The XRF instrument would not calibrate properly. We read all the manuals and instructions for troubleshooting, but nothing seemed to work. Daylight was almost gone; we took the XRF back to the hotel in Colville and see if we could get it to work. When we got back to the hotel, we tried calibrating the XRF instrument, and it worked on the first attempt

6:00 pm Arrive back in Colville

Waste Rock Removed = 15 loads (150 bcy, Ore Bin & Foundation area)

MSE Daily Field Summary

Project:	**Longshot Mine Removal Action**
Project Number:	3149
Location:	Colville National Forest
Field Personnel:	Eric Hieb, Bob Lambeth
USFS Personnel:	
Date:	10/29/2011

FIELD CONDITIONS

Weather: Sunny **Partly cloudy** Cloudy Rain Snow Temp **40°F**

Precipitation: Dry **Recent** Current Wind: 0 **<5** 5-15 15-30 >30

VISITORS TO THE SITE

Name	Company:	Purpose of Visit:
Eric Hieb	MSE	Reclamation Oversight
Bob Lambeth	MSE	Reclamation Oversight
Lyle Palm	Palm Construction, Inc.	Reclamation Activities
Les Palm	Palm Construction, Inc.	Reclamation Activities
John McCombs	Palm Construction, Inc.	Reclamation Activities

FIELD WORK SUMMARY

9:00 am Met with Bob at hotel in Colville and left for the Longshot Mine

9:30 am Arrive at site

9:30 am - 3:15 pm Once Bob and I arrived on site we tried to calibrate the XRF instrument but it reported errors. We brainstormed why the calibration was unsuccessful at the site but successful in town. We drove down the main access road stopping at various places until calibration was successful. The XRF instrument calibrated at a lower elevation. Once successfully calibrated we drove back up to the site to take readings. After one reading the instrument would have an error and require calibration. We tried calibrating on site but calibration errors forced us to drive down the main access road to a lower elevation for successful calibration. This process repeated for each XRF reading. Over a span of a few hours, we were able to take enough readings to feel comfortable that reclamation can ensue. XRF readings were taken at the stope, WR6, center of WR3, bank of WR3, rock/soil pile across the road from WR3, ORE BIN, adjacent/downslop of concrete mill foundation, and on side of access road ~300 ft south of WR2. Noted that photographs need to be taken the following day of all XRF reading locations. Composite confirmation samples were collected at WR3, ORE BIN,and adjacent/downslope of the foundation and shipped for lab analysis. Palm continued to remove waste required by Ecology at WR5 and WR6.

3:15 pm Leave site

3:45 pm Arrive at hotel in Colville

Waste Rock Removed = 15 loads (150 lcy, Ecology material)

MSE Daily Field Summary

Project:	**Longshot Mine Removal Action**
Project Number:	3149
Location:	Colville National Forest
Field Personnel:	Eric Hieb
USFS Personnel:	
Date:	10/30/2011

FIELD CONDITIONS

Weather: Sunny Partly cloudy **Cloudy** Rain Snow Temp **34°F**

Precipitation: Dry **Recent** Current Wind: **0** <5 5-15 15-30 >30

VISITORS TO THE SITE

Name	Company:	Purpose of Visit:
Eric Hieb	MSE	Reclamation Oversight
Lyle Palm	Palm Construction, Inc.	Reclamation Activities
Les Palm	Palm Construction, Inc.	Reclamation Activities
John McCombs	Palm Construction, Inc.	Reclamation Activities

FIELD WORK SUMMARY

7:30 am Leave hotel in Colville to Longshot Mine

8:00 am When I arrived on site, the crew had not arrived yet. While waiting for the crew, I looked through the EE/CA and started documenting the daily field summaries on my PC. At 9:00am the crew arrived as it started to rain. The crew filled the stope with soil and rock from adjacent to the vertical rock face. I took photographs of all the locations where XRF reading were taken, and documented the values that were written on the marked locations.

10:30 am Observed Les tear down trees to be chipped and took a photo of him doing so

11:00 am Les backfilled in the small pond (PD1). He also inquires about the design of the upper bat gate - the drawing showed a flat bar but the crew only had corner angle bars. I told them I would contact Bob to get the answer. In the meantime John and Lyle were cutting down more trees to be chipped.

11:30 am Les finished draining PD1 and filling it in with adjacent soil. Lyle and John were chipping wood until the chipper ran out of transmision fluid - have to go to town to get some more

12:00 pm Crew left to town (Colville) for lunch and to pick up needed supplies. I also traveled back to Colville for lunch

2:00 pm Arrive back on site from lunch in Colville

3:00 pm Les finishes up the welding on the bat gate - the "ok" was given to proceed with the angle bars. The wood chipper temporarily got jammed but was shortly after able to be unplugged

4:30 pm Most chipping piles have been completed (4 photos). Less finishes the drainage ditch which captures the runoff that would fall into the stope from atop the vertical rock face (3 photos)

5:00 pm Photograph of John and Lyle chipping wood by WR2

6:00 pm End of day (Arrive back in Colville) Soil Fill in PD1 = 3 loads (30 bcy)

MSE Daily Field Summary

Project:	**Longshot Mine Removal Action**
Project Number:	3149
Location:	Colville National Forest
Field Personnel:	Eric Hieb
USFS Personnel:	Rodney T. Lentz
Date:	10/31/2011

FIELD CONDITIONS

Weather: Sunny **Partly cloudy** Cloudy Rain Snow Temp **35°F**

Precipitation: Dry **Recent** Current Wind: 0 <5 **5-15** 15-30 >30

VISITORS TO THE SITE

Name	Company:	Purpose of Visit:
Eric Hieb	MSE	Reclamation Oversight
Bob Lambeth	MSE	Reclamation Oversight/Site Inspection
Lyle Palm, Les Palm	Palm Construction, Inc.	Reclamation Activities
Rodney T. Lentz	USFS	Site Inspection
John McCombs	Palm Construction, Inc.	Reclamation Activities

FIELD WORK SUMMARY

7:45 am Leave for Longshot Mine

8:15 am Arrive on site

8:45 am The crew shows up - Lyle takes back the wood chipper back to Spokane.

9:00 am John and Les are filling up the dump truck and moving the soil next to the ORE BIN. On confirmation from laboratory results that there was sufficient clean-up, the soil will be spread over the area.

9:30 am Continued work on placing soil by ORE BIN (2 photos taken). The soil is the trenched soil from the drainage ditch that will receive all the drainage from the lower adit (AD1).

10:00 am Leave site to get cell phone service to ask Bob when he and Rodney T. Lentz will arrive on site

11:00 am Arrive back on site from cell phone call to Bob. Les filed the stope with the excess soil from the drainage ditch. John got a flat tire in his truck - I drove him to cell service again so he could notify Lyle to pick up appropriate tools.

11:45 am Arrive back on site from the phone call to Lyle

12:00 pm Lunch

12:45 pm Les finishes up filling the stope (2 photos). Afterwards he went to the ORE BIN to spread the soil

1:30 pm Lyle arrives back on the site. Lyle and Les start loading up the wood from the destroyed mill.

2:00 pm Rodney and Bob arrive on site for inspection and to go over everything that needs to be done or altered. These were: seed and fertilize the tailings (TA1, TA2), place rocks at reclamations end to prevent vehicle access, retrieve the tag from the seed bag, and additions to upper bat gate, increase the slope for the drainage ditch, and place the wasterock adjacent to the stope at bottom of vertical cliff.

4:00 pm Rod and Bob leave and will return on the following Monday for final inspection

5:00 pm Les and John start reclamation by stope and WR6

5:15 pm I leave site for Colville

5:45 pm Arrive in Colville Soil & Ditch Muck Moved = 12 loads (120bcy); Topsoil Moved = 50 bcy

MSE Daily Field Summary

Project:	**Rainy Mine Removal Action**
Project Number:	3149
Location:	Colville National Forest
Field Personnel:	Eric Hieb
USFS Personnel:	
Date:	11/1/2011

FIELD CONDITIONS

Weather: **Sunny** Partly cloudy Cloudy Rain Snow Temp **35°F**

Precipitation: **Dry** Recent Current Wind: 0 **<5** 5-15 15-30 >30

VISITORS TO THE SITE

Name	Company:	Purpose of Visit:
Eric Hieb	MSE	Reclamation Oversight
Lyle Palm	Palm Construction, Inc.	Reclamation Activities
Les Palm	Palm Construction, Inc.	Reclamation Activities
John McCombs	Palm Construction, Inc.	Reclamation Activities

FIELD WORK SUMMARY

8:00 am Leave for Longshot Mine

9:00 am Les is finishing up reclaiming access road by stope and WR-6 while John is finishing getting the flat tire fixed

9:30 am Les is loading the dump truck with wood from the destroyed mill for Lyle to take away.

10:30 am Les finishes up welding the additions to the bat gate on the upper adit

11:30 am Lyle returns from dumping some of the wood and is being loaded again

12:00 pm Lunch

12:45 pm Les and John are reclaiming the access road along WR4

1:30 pm Lyle returns to load the last of the wood from the mill, and graciously brought lunch for John and Les who take a lunch break

2:30 pm Les and John continue reclamation of the access road and just passed WR-3

4:00 pm Les and John continue reclamation of the access road to the culvert

4:30 pm Lyle returns from dumping the wood. Les finishes digging the lower-adit drainage ditch deeper - as request from Rodney. Palm installs the bat culvert and fills the portal void.

5:15 pm Leave site for Colville

5:45 pm Arrive in Colville

Debris = 3 loads (30 lcy)

Soil & Muck Removed = 7 loads (70 bcy); Bat Culvert Fill = 8 bcy

MSE Daily Field Summary

Project:	**Rainy Mine Removal Action**
Project Number:	3149
Location:	Colville National Forest
Field Personnel:	Eric Hieb
USFS Personnel:	
Date:	11/2/2011

FIELD CONDITIONS

Weather: Sunny Partly cloudy **Cloudy** Rain Snow Temp **35°F**

Precipitation: **Dry** Recent Current Wind: 0 **<5** 5-15 15-30 >30

VISITORS TO THE SITE

Name	Company:	Purpose of Visit:
Eric Hieb	MSE	Reclamation Oversight
Lyle Palm	Palm Construction, Inc.	Reclamation Activities
Les Palm	Palm Construction, Inc.	Reclamation Activities
John McCombs	Palm Construction, Inc.	Reclamation Activities

FIELD WORK SUMMARY

8:00 am Leave for Longshot Mine

9:00 am Les reclaims the Lower to Upper Adit access road; Lyle starts reclamaition of the mill spur road.

12:00 pm Both roads are completed

12:45 pm Les and John continue reclamation of the tailings ponds, and Lyle places access restriction boulders.

12:00 pm Lunch

3:00 pm All reclamation short of seeding and fertilizing is complete

4:00 pm Les, John, and Lyle start seeding and fertilizing the site.

5:10 pm Leave site for Colville

5:45 pm Arrive in Colville

Soil Moved = 10 loads (100 bcy)

MSE Daily Field Summary

Project:	**Rainy Mine Removal Action**
Project Number:	3149
Location:	Colville National Forest
Field Personnel:	Eric Hieb
USFS Personnel:	
Date:	11/3/2011

FIELD CONDITIONS

Weather: Sunny Partly cloudy **Cloudy** Rain Snow Temp **40°F**

Precipitation: **Dry** Recent Current Wind: 0 **<5** 5-15 15-30 >30

VISITORS TO THE SITE

Name	Company:	Purpose of Visit:
Eric Hieb	MSE	Reclamation Oversight
Lyle Palm	Palm Construction, Inc.	Reclamation Activities
Les Palm	Palm Construction, Inc.	Reclamation Activities
John McCombs	Palm Construction, Inc.	Reclamation Activities

FIELD WORK SUMMARY

8:00 am Leave for Longshot Mine

8:45 am Arrive at Mine with Palm crew

12:00 pm Both roads are completed

1:00 pm Palm starts loading equipment for demobilization.

3:00 pm All equipment loaded.

4:00 pm Palm polices the site and cleans all miscellaneous trash and debris.

5:00 palm and MSE depart for Colville.

MSE Daily Field Summary

Project:	**Longshot Mine Removal Action**
Project Number:	3149
Location:	Colville National Forest
Field Personnel:	Eric Hieb
USFS Personnel:	Rodney T. Lentz
Date:	11/4/2011

FIELD CONDITIONS

Weather: Sunny Partly cloudy Cloudy Rain **Snow** Temp **35°F**

Precipitation: Dry Recent **Current** Wind: 0 **<5** 5-15 15-30 >30

VISITORS TO THE SITE

Name	Company:	Purpose of Visit:
Eric Hieb	MSE	Lower-adit bat gate fixing
Rodney T. Lentz	USFS	Lower-adit bat gate fixing
Gerald L. Palm, and coworker	Palm Construction, Inc.	Lower-adit bat gate fixing

FIELD WORK SUMMARY

8:30 am Leave for Longshot Mine

9:45 am Arrive at on site (the road conditions were bad - ice and snow)

10:15 am Start clearing the lower adit so Palm Construction, Inc. could fix the bat gate

10:45 am Finished fixing the bat gate and filled it back in. Once back to the trucks Jerry cut the steel bar that is going to be used temporarily.

11:20 am Rodney arrives on site. Gives the instructions on how to drill the hole in the steel bar for the temporary lock

11:40 am Rodney places the steel bar in the bat gate and locks it up

12:00 pm Leave site to Colville

1:00 pm Arrive in Colville

Eric will return to Spokane tomorrow and fly to Boise.

MSE Daily Field Summary

Project:	**Longshot Mine Removal Action**
Project Number:	3149
Location:	Colville National Forest
Field Personnel:	Bob Lambeth
USFS Personnel:	Rod Lentz
Date:	11/7/2011

FIELD CONDITIONS

Weather: Sunny **Partly cloudy** Cloudy Rain Snow Temp **35°F**

Precipitation: **Dry** Recent Current Wind: 0 **<5** 5-15 15-30 >30

VISITORS TO THE SITE

Name	Company:	Purpose of Visit:

FIELD WORK SUMMARY

8:00 am Bob leaves for Longshot Mine and to meet Rod for a final inspection, arriving at 9:30 am.

11:00 am Rod approves all reclamation action and bat culvert repair.

12:00 pm Bob returns to Spokane, arriving at 1:30 pm.

All reclamation work is complete; only O&M remains.