

**Logan Wash Mine Annual Report**  
**Permit No. M-1977-424**

**Table 1. Reclamation Status at Logan Wash Mine, March 2025**

| Area Number<br>(Exhibit E & F) | Name                            | Approved Area | Actual Disturbed Area | Acres Reclaimed (acres/year)     | Acres Released (acres/year)   |
|--------------------------------|---------------------------------|---------------|-----------------------|----------------------------------|-------------------------------|
| 1                              | Mine Dump <sup>a</sup>          | 30.00         | 13.36                 | 13.36/2004                       | 13.36/2022                    |
| 2                              | Upper Mine Bench                | 3.00          | 0.74                  | 0.74/2005                        | 0.74/2022                     |
| 3                              | Lower Mine Bench                | 3.80          | 2.10                  | 2.10/2003 <sup>b</sup>           | NR                            |
| 4                              | Research Mine Bench / Dump      | 5.00          | 4.26                  | 4.26/2004                        | 4.26/2022                     |
| 5                              | Old Surface Process Facility    | 3.00          | 1.82                  | 1.82/<1986                       | 1.82/1986                     |
| 6                              | Two Overflow Ponds              | 2.00          | 2.86                  | 2.86/<1986                       | 2.86/2006                     |
| 7                              | Equipment & Parts Storage       | 2.55          | 0.67                  | 0.67/<1986                       | 0.67/1986                     |
| 8                              | Ventilation Fan Site            | 1.30          | 0.41                  | 0.41/1986                        | 0.41/2006                     |
| 9                              | Power Substation                | 0.75          | 0.75                  | 0.75/1986                        | 0.75/2006                     |
| 10                             | Helo Pad                        | 1.00          | 0.24                  | 0.24/-                           | 0.24/2022                     |
| 11                             | Guard Gate Area                 | 5.00          | 8.30                  | Not to be reclaimed              | Transferred/1983 <sup>d</sup> |
| 12                             | Met Tower                       | 1.00          | 0.80                  | 0.80/<1982                       | 0.80/2006                     |
| 13                             | Misc. Access Roads <sup>e</sup> | 11.5          | 15.58                 | 11.78/2005                       | 8.12/1986                     |
| 14                             | Oil Transfer Pipeline           | 0.5           | 0.5                   | 0.5/<1998                        | 0.5/2006                      |
| 15                             | Heater/Treater                  | 3.00          | 2.96                  | 2.96/1986                        | 2.96/2006                     |
| 16                             | Microwave Tower                 | 1.00          | 0.11                  | 0.11/<1998                       | 0.11/2006                     |
| 17                             | Exhaust Stack                   | 3.00          | 3.00                  | 3.00                             | 3.00/2006                     |
| 18                             | Logan Wash Road                 | 55.55         | 53.43                 | Not to be reclaimed <sup>f</sup> | ---                           |
| 19                             | Surface Process Control         | 1.00          | 1.0                   | 1.0/<1998                        | 1.0/2006                      |
| 20                             | Top Soil Storage                | 0.5           | 0.25                  | 0.25/<1998                       | 0.5/2006                      |
| 21                             | Berm Material                   | 0.25          | 0.33                  | 0.25/<1986                       | 0.33/1986                     |
| 22                             | Heater Treater Meteorological   | 0.18-         | 0.18                  | 0.18/<1986                       | 0.18./1986                    |
| B1-B10                         | Logan Wash Road Realign         | 6.0           | 6.0                   | 6.0/<1986                        | ~5.0/1986 & 2022              |
| New                            | Soil Barrow Area (2005)         | 2.0           | 0.65                  | 0.65/2005                        | 0.65/2006                     |
| 23                             | Evaporation Pond and Pipeline   | 14.87         | 14.87                 | 5.07/<1986                       | NR                            |
| Total                          |                                 | 157.75        | 135.17 <sup>g</sup>   | 59.84                            | 48.26 <sup>g</sup>            |

Table 1 Notes: <sup>a</sup> The Mine Dump area is to be reclaimed by establishing “vegetated islands”; the entire acreage will not be vegetated. <sup>b</sup> Conducted hydromulch test on Lower Bench; <sup>c</sup> Area 10 was excavated for a pond for the

landowner and is under reclamation; <sup>d</sup>Area 11 transferred to Chevron, not to be reclaimed; <sup>e</sup> See Table 2 for description of access roads, release is assumed; <sup>f</sup> The original reclamation plan named the Logan Wash Road as disturbed acreage, but noted that it would not be reclaimed because the road serves as a main access road to BLM and private lands; NR = Not Released. <sup>g</sup> This acreage was adjusted to 108.55 acres at suggestion of DRMS during release request in fall of 2022. The October 2022 release resulted in approximately 21.65 acres being released of reclamation warranty and a total of approximately 26.0 acres remaining on the mine permit.

**Table 2. Reclamation Status of Miscellaneous Access Roads, March 2025**

| <b>Area</b>                        | <b>Estimated Disturbed Area</b> | <b>Acres Reclaimed (as of March 2024)</b> | <b>Acres Remaining to be Reclaimed</b> |
|------------------------------------|---------------------------------|---|--|
| Mine Bench and Portal <sup>a</sup> | 7.46                            | 5.06                                      | 3.8                                    |
| Old Surface Process                | 1.51                            | 1.51                                      | 0.0                                    |
| New Surface Process                | 2.17                            | 2.17                                      | 0.0                                    |
| Heater/Treater <sup>b</sup>        | 1.36                            | 1.36                                      | 1.36                                   |
| Beyond Microwave                   | 2.33                            | 2.33                                      | 0.0                                    |
| Vicinity of the Microwave          | 0.75                            | 0.75                                      | 0.0                                    |
| <b>Total</b>                       | <b>15.58</b>                    | <b>13.18</b>                              | <b>2.4<sup>a</sup></b>                 |

<sup>a</sup> Based on Upper Access Road and Lower Bench Road, and Upper Bench Road map measurements

<sup>b</sup> Lower Access Road was under reclamation but unsuccessful due to cattle foraging. Road is still used to access Well LWCW-1A.

**Table 3. Well Abandonment Schedule, March 2025**

| <b>Monitoring Well ID</b> | <b>Abandonment Date</b> | <b>Status</b>               |
|---------------------------|-------------------------|-----------------------------|
| <b>LW-22A</b>             | <b>TBD</b>              | <b>Monitoring Suspended</b> |
| <b>LW-32</b>              | <b>TBD</b>              | <b>To be abandoned</b>      |
| <b>LW-45</b>              | <b>TBD</b>              | <b>To be abandoned</b>      |
| <b>LW-102</b>             | <b>2007</b>             | <b>Cement plugged</b>       |
| <b>LW-103</b>             | <b>TBD</b>              | <b>To be abandoned</b>      |
| <b>LW-104</b>             | <b>2007</b>             | <b>Cement plugged</b>       |
| <b>LW-108</b>             | <b>2005</b>             | <b>Cement plugged</b>       |
| <b>LW-112</b>             | <b>2005</b>             | <b>Cement plugged</b>       |
| <b>LW-116</b>             | <b>TBD</b>              | <b>To be abandoned</b>      |
| <b>LW-242</b>             | <b>2005</b>             | <b>Cement plugged</b>       |
| <b>LW-243</b>             | <b>2007</b>             | <b>Cement plugged</b>       |
| <b>LWCW-1A</b>            | <b>TBD</b>              | <b>Monitoring</b>           |

Notes: TBD: to be determined

**Table 4. Logan Wash Mine Areas Requested for Release in 2022**

| Area   | Description  | Acreage      |
|--|--|--------------|
| 1  | Mine Dump  | 13.36        |
| 2  | Upper Mine Bench   | 0.74         |
| 4  | Research Mine Bench  | 4.26         |
| 10   | Helo Pad   | 0.24         |
| 13   | Miscellaneous Access Road<br>(Upper Bench Road)                                      | 1.4          |
| 13   | Miscellaneous Access Roads<br>(Road Realignment Areas B2,<br>B3, B5, B5A, B7 and B8) | 1.0          |
| New  | Soil Barrow Area   | 0.65         |
| <b>Total Estimated Acreage Requested for Release Reclaimed</b> |  | <b>21.65</b> |

**Table 5. Logan Wash Mine Areas Not Under Reclamation**

| Area   | Description                   | Acreage     |
|--|-------------------------------|-------------|
| 13   | The Upper Access Road         | 4.8         |
| 13   | Lower Bench Road              | 1.5         |
| 3  | Lower Bench                   | 2.1         |
| 13   | Lower Access Road             | 1.4         |
| 23   | Evaporation Pond Access Road  | 1.3         |
| 23   | Evaporation Pond and Pipeline | 14.9        |
| <b>Total Estimated Acreage Not Reclaimed</b> |                               | <b>26.0</b> |

**Table 6. Summary of Reclamation Status at Logan Wash Mine**

| Acreage Status Category                               | Estimated Acreage |
|---|-------------------|
| Total original disturbed/used acres                   | 108.55            |
| Acres released prior to 2022                          | 60.9              |
| Acres released from reclamation in 2022               | 21.65             |
| Total acres released to date                          | 82.55             |
| Total new disturbed acres this reporting period       | 0.0               |
| Total acres currently under reclamation               | 0.0               |
| Total estimated acres not currently under reclamation | 26.0              |
| Total estimated reclaimed acres needing release       | 26.0              |

**Table 7. Logan Wash Mine Site Monitoring Events, January 2024 to March 2025**

| Date          | LW-002 <sup>1</sup><br>Manometer<br>(inches) | LW-001 <sup>2</sup><br>(L-1 Portal)<br>(gpm) | Upper<br>Manhole <sup>3</sup><br>(gpm) | Lower<br>Manhole <sup>4</sup><br>(gpm) | Other  |
|---------------|--|--|--|--|--|
| 01/16/2024    | NM   | NM   | NM                                     | 2.22                                   | Reported leak                                |
| 01/18/2024    | NM   | NM   | 2.16                                   | 2.27                                   | Site monitoring                              |
| 02/22/2024    | 0  | 0.77   | 2.30                                   | 2.34                                   | Site monitoring                              |
| 02/28/2024    | NM   | NM   | NM                                     | NM                                     | Reinstall pond rain gauge                    |
| 03/21/2024    | 0  | 0.72   | 2.01                                   | 2.13                                   | Site monitoring                              |
| 04/17/2024    | 0  | 0.62   | 2.33                                   | 2.56                                   | Site monitoring                              |
| 04/29/2024    | 0  | NM   | NM                                     | NM                                     | Manometer check                              |
| 05/06/2024    | NM   | NM   | NM                                     | NM                                     | Purge LWCW-1A                                |
| 05/14/2024    | NM   | NM   | NM                                     | NM                                     | Site sampling                                |
| 05/15/2024    | 0  | 0.60   | 2.41                                   | 2.19                                   | Site sampling                                |
| 06/13/2024    | NM   | NM   | NM                                     | NM                                     | Penstemon inspection                         |
| 06/24/2024    | 0  | NM   | 2.20                                   | 2.24                                   | Penstemon survey/monthly monitoring          |
| 07/27/2024    | 0  | 0.56   | 2.54                                   | 1.90                                   | Site monitoring                              |
| 08/27/2024    | NM   | 0.60   | 2.64                                   | 2.20                                   | Site monitoring                              |
| 09/16/2024    | 0  | 0.62   | 2.49                                   | 2.26                                   | Site monitoring                              |
| 09/04/2024    | NM   | NM   | NM                                     | NM                                     | HOBO data download                           |
| 09/16/2024    | 0  | 0.62   | 2.49                                   | 2.26                                   | Site monitoring                              |
| 09/30/2024    | NM   | NM   | NM                                     | NM                                     | Purge LWCW-1A                                |
| 10/08/2024    | NM   | 0.56   | NM                                     | 2.20                                   | Site sampling                                |
| 10/16/2024    | 0  | 0.56   | 2.53                                   | 2.56                                   | Site monitoring                              |
| 11/13/2024    | NM   | NM   | NM                                     | NM                                     | Road assessment (new gravel)                 |
| 11/20/2024    | NM   | NM   | 2.34                                   | 2.31                                   | Site monitoring                              |
| 11/21/2024    | NM   | NM   | NM                                     | NM                                     | Road assessment (new gravel)                 |
| 12/30/2024    | NM   | NM   | NM                                     | 2.69                                   | Site monitoring                              |
| 01/28/2025    | NM   | NM   | NM                                     | 2.67                                   | Site monitoring                              |
| 02/19/2025    | NM   | NM   | NM                                     | 2.71                                   | Site monitoring                              |
| 03/17/2025    | NM   | NM   | 2.9                                    | 2.59                                   | Site monitoring                              |
| 03/26-27/2025 | NM   | NM   | NM                                     | NM                                     | Pump water from Pond Detection Vault to Pond |

<sup>1</sup> LW-002 discharge originates at the Research Mine portal, the manometer measures head behind a concrete dam inside the sealed adit.

<sup>2</sup> LW-001 discharge originates at the L-1 portal of Logan Wash Mine and during the reporting period discharged into the Infiltration Trench. All measurements recorded by electronic flowmeter display.

<sup>3</sup> Upper Manhole is located on Retort Water Pipeline in Logan Wash approximately 3000 ft down drainage of the Lower Dump.

<sup>4</sup> Lower Manhole is located on Retort Water Pipeline immediately north of Evaporation Pond.

NM = not measured