

Minerals Reclamation Permit Annual Report



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

Disclaimer

Under the terms of your NOI or Reclamation Permit and Colorado Statutes, you must submit Annual Fees and Annual Reports (including a map). You must pay the Annual Fee and submit an Annual Report each year until reclamation responsibility release is granted. The Annual Fee is not a renewal fee. The Fee and Report are for LAST YEAR'S mining and reclamation season, and MUST be paid even if your operation was inactive.

If you have requested reclamation responsibility release from the Division of Reclamation, Mining and Safety ("Division") but your permit is not released by the anniversary date listed below, the Annual Fee MUST be paid. If the permit is released before the anniversary date, then by Statute, it is not necessary to pay an Annual Fee or submit an Annual Report for that year.

Division records indicate the following is due:

Select Permit Number *

Only Permit Numbers with currently due Annual Fees will be listed. If the Permit Number is not listed, then the Annual Fees are not due, the Permit Number has already been submitted, or the Permit Number Annual Fee payment has been processed.

M1977424

Select Anniversary Date *

03-28-2018

PLEASE REMEMBER TO CLICK "SUBMIT" AFTER YOU HAVE COMPLETED YOUR REPORT AND PAYMENT.

Please check the box indicating you have read and understand the terms of the Annual Report and Annual Fee *

☒ I understand and agree to the terms

General Information

Permittee Name

Occidental Oil Shale, Inc.

Operation Name

Logan Wash

Permit Number	Fee Due	Permit Acreage
M1977424	633.00	108.55

County	Anniversary Date	Current Bond Amount
Garfield	03-28-2018	236752.00

Permittee Contact Information

Permitting Contact Name

Mike Anderson

Company

Occidental Oil Shale, Inc.

Address 1

c/o Glenn Springs Holdings, Inc.

Address 2

5 Greenway Plaza, Suite 110

City	State	Zip Code
Houston	TX	770460000

Phone #	Fax #
7133665143	7139858980

Permitting Contact Email Address

roger_smith@oxy.com

Is the Permitting Contact information listed above correct? If it is not correct your organization's Administrator will receive an email notification. *

☒ Yes ☐ No

Annual Report Questions

Information contained in this report is required and will be reviewed by the Division upon receipt and prior to the next compliance inspection of the site. If, while completing this report, you learn that your site is not in compliance with the rules and the act, it is advisable that the issues be rectified promptly to avoid possible enforcement action.

1. Is the site identification sign posted in accordance with Rule 3.1.12(1). *

☒ Yes ☐ No

2. Is the affected area boundary clearly marked in accordance with Rule 3.1.12(2). *

☒ Yes ☐ No

3. Is the mine site in final reclamation (all material extraction and stockpile removal is complete)? *

If "YES," please note time limits related to completion of reclamation, Rule 3.1.3.

☒ Yes ☐ No

4. Has excavation, processing or hauling activity commenced at the site? *

☒ Yes ☐ No

What was the date of last excavation, processing or hauling activity at the mine? *

11/13/2015

5. Does the mine operate more than 180 days per year? *

If "NO", please review Rule 1.13 to assure that your mine is in compliance.

☐ Yes ☒ No

6. Has this mine been granted approval of TEMPORARY CESSATION Status? *

☐ Yes ☒ No

7. Has this mine been granted approval for INTERMITTENT OPERATION? *

☐ Yes ☒ No

For the following questions, please note that numeric values must include one decimal place, such as "0.0" for

zero acres, or 10.2 instead of 10.23.

8. Number of acres currently affected (mining + incomplete and or unreleased reclamation). * (?)

42.4

9. Number of acres that were newly affected during the current report year * (?)

0.0

10. Number of acres that were reclaimed during the current report year. * (?)

0.0

11. Estimated new acreage to be affected in the next report year. * (?)

0.0

12. Estimated acres to be reclaimed in the next report year. * (?)

0.0

13. Total acres in various stages of reclamation, since permitted mining activities began:

Total acres backfilled * (?)

2.0

Total acres graded * (?)

14.8

Total acres seeded with approved mix * (?)

30.2

Seed Application Method *

Broadcast seeding

Total acres fertilized with aproved fertilizer * (?)

20.8

Fertilizer Application Method *

Hand spread

Total acres with topsoil replaced * (?)

14.7

Topsoil replacement depth (in.) * (?)

6.0

Total acres mulched with approved mulch * (?)

16.8

Mulch application rate (tons/ac) * (?)

1.5

Mulch Application Method *

Hydromulching

14. Is weed control being conducted in accordance with an approved Weed Control Plan? *

If "YES", indicate the weed species, control area, control type, application rate and treatment date on the report map.

☒ Yes ☐ No ☐ N/A

15. Is adequate topsoil reserved for reclamation, based on your approved permit? *

If "NO", please explain

☐ Yes ☒ No ☐ N/A

Comment *

500 Characters MAX

Most of mine site is on steep cliff face. No topsoil stockpiles exist on site. Soil was imported for some past reclamation activities. Sidecast material exists for some access roads that will be used in future for backfilling road cuts.

16. Is the reserved topsoil vegetated/stabilized in accordance with Rule 3.1.9(1)? *

If "NO", please explain

☐ Yes ☐ No ☒ N/A

17. If mining has exposed groundwater, is the site in compliance with the approved mining plan and Office of the State Engineer (Well Permit, S.W.S.P., and/or Permanent Augmentation Plan)? *

☐ Yes ☐ No ☒ N/A

18. Are all hazardous materials stored within approved spill containment structures? *

☐ Yes ☐ No ☒ N/A

19. Is your financial warranty value sufficient to cover the cost to complete reclamation? *

☒ Yes ☐ No ☐ N/A

20. Is your basis for legal right to enter still valid? *

☒ Yes ☐ No

21. Does your permit require you to submit monitoring information annually? *

☐ Yes ☒ No ☐ N/A

22. As required by Colorado Mined Land Reclamation Act and/or Colorado Land Reclamation Act for the Extraction of Construction Materials (C.R.S.34-32-116 or 34-32.5-116), attach a map to this report that accurately depicts the permit boundary, current affected area boundary and location of the acreages specified in items 8-12 and 15. *

Only PDF formatted files can be uploaded.

Figure 3_Logan Wash Mine Wells.pdf

6.22MB

Figure 4A_Reclamation Status.pdf

3.34MB

Figure 4B_Reclamation Status.pdf

3.26MB

23. If you have supplemental information you would like to provide, please upload it here.

Only PDF formatted files can be uploaded.

DRMSLWannl18_Final.pdf	51.55KB
Tables 1-4.pdf	29.19KB
Tables 6_Biannual Sampling Data_2017.pdf	145.06KB
Tables 5_2017.pdf	116.67KB
Tables 7_2017.pdf	119.42KB
Tables 8_2017.pdf	114.93KB
Table 9_SoilData_v2.pdf	144.46KB
Table 10_Pond Salt and Sed TCLP Results_2017.pdf	82.88KB
Figure 1_Logan Wash Location Map.pdf	2.04MB
Figure 2_Logan Wash Facilities.pdf	3.27MB
Figure 3_Logan Wash Mine Wells.pdf	6.22MB
Figure 4A_Reclamation Status.pdf	3.34MB
Figure 4B_Reclamation Status.pdf	3.26MB
Figure 5_LW-001 Discharge_with retort.pdf	512.55KB
Figure 6_2017 sampling.pdf	3.09MB
Figure 7_Detection Vault.pdf	1.88MB
Figure 8_Precipitation.pdf	284.43KB
Figure 9_Pond Soil Sampling_v2.pdf	3.32MB
Figure 10_Logan_P_Debilis.pdf	3.26MB
Figure 11_Logan_P_Debilis_Transplanting.pdf	3.17MB

24. Rule 5.7 requires submittal of final abandonment reports within 60 days for any drill hole(s) with artesian flows and no later than 12 months for all other completed drill holes. If drill holes are a component of your exploration/prospecting activities, have they been properly abandoned?

☐ Yes ☐ No ☒ NA

Annual Fee Payment

Payment Confirmation Number * (?)

86741716

Signature

Submittal Date

03-21-2018

I, the undersigned, hereby state that the information provided in this report is true and accurate, and that site operations are being conducted in accordance with the Division approved mining and reclamation plans. *

☒ I Agree