Sulphur Brine Field

No.7 Decommissioning

Submitted by:

Westlake



Prepared by:



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TABLE OF CONTENTS

TABL	E OF C	ONTENTS	. i
1.0	Background		. 1
2.0	Introduction		. 1
3.0	Anticipated Impact Zone		. 2
4.0	Decommissioning Plan		3
	4.1	Equipment and Infrastructure	. 3
	4.2	Isolation and Demolition	4
	4.3	Operating Unaffected Wells	5

APPENDIX

Decommissioning Plan Layout No.7 Brine Well P&ID 01A-10094 Interconnecting Piping P&ID 01A-10097 Oil Storage Tank P&ID 01A-10105

1.0 BACKGROUND

Order 3.f. of the Third Supplement to Compliance Order No. IMD 2022-027 issued by the State of Louisiana Department of Natural Resources Office of Conservation requires Westlake US 2, LLC (Westlake) to submit a plan to decommission Westlake's facility at the potential affected area on the Sulphur Mines Salt Dome in the case of a surface expression caused by a failure of Cavern 7.

In response to the order, a decommissioning plan has been developed. The plan consists of the following components:

- Isolation and demolition of piping inside of the No.7 Brine Well pad. This includes the 4" multipurpose line as well as the 2" pad oil line.
- Isolation and demolition of the header piping outside the east containment wall of the No.7 Brine Well Site. This includes a 10" brine line, 10" high pressure water line, 4" multipurpose line and 2" pad oil line.
- A plan for operating wells outside the predicted impact zone.

2.0 INTRODUCTION

This plan describes the basis of the decommissioning plan, infrastructure demolition, and operating outside the affected area:

- Anticipated impact zone
- Equipment and Infrastructure
- Isolation and Demolition
- Operating Unaffected Wells

Each of these items is addressed in greater detail in the sections that follow in this Decommissioning Plan.

3.0 ANTICIPATED IMPACT ZONE

Much of the site in question is currently owned by Sulphur Dome, LLC and Westlake Corporation. Westlake leases some of the site to solution mine brine used in the production of Chlor-Alkali at the Westlake South facility.

The impact zone was identified in the Lonquist "Surface Expression Impact Zone Estimate – Sulphur Mines Salt Dome - Cavern No.006 & No.007 (November 2, 2023)" document. See Figure 4 page 6 of 41 of indicated document. The initial impact zone has been identified to have a diameter of 678 feet with the epicenter located 488 feet due west of No.7 Brine Well. The final impact zone is indicated to have a diameter of 1841 feet.



Figure 1 – Impact Zone Diagram (Obtained from Lonquist document dated 11/2/2023)

4.0 DECOMMISSIONING PLAN

4.1 EQUIPMENT AND INFASTRUCTURE

To minimize environmental impacts in the event of a surface expression only necessary equipment remains within the predicted final impact zone. See P&ID 01A-10094 appendix page 8 and figure 2 below. Equipment inside the No.7 Brine Well Pad is as follows:

- 4" Multipurpose Piping
- 2" Pad Oil Piping
- Two Temporary Pumps
- Well and Oil Pressure Indicators
- No.7 Brine Well Head Valving/Piping



Figure 2 – No. 7 Brine Well Pad Aerial Photograph

4.2 ISOLATION AND DEMOLITION

In the event of a surface expression isolation of the predicted affected areas would be achieved utilizing valving indicated on P&ID 01A-10097 appendix page 9, P&ID 01A-10105 appendix page 10 and figure 3 below. The electrical feeder supplying power to No.7 Brine Well can be isolated at Motor Control Center 2 near No.2 Brine Well.

The extent of damage will be assessed and where applicable lines and equipment are to be cleared in accordance with Westlake procedures and removed from the area. Remaining piping associated with the affected No.7 Brine Well on the well pad along with header piping outside the well pad to the East are to be demolished where safely feasible. All remaining instrumentation associated with the affected No.7 Brine Well inside the existing well pad is to be demolished where safely feasible.



Figure 3 – No. 7 Brine Well Pad Isolation and Demolition Aerial Photograph

4.3 OPERATING UNAFFECTED WELLS

To maintain the integrity of other operating well locations new piping and infrastructure will be installed outside the proposed levee containment system between the No.22 Brine Well and No.6 Brine Well locations. This includes a new 10" Brine or High Pressure Water line, 10" High Pressure Water from Cavity Pumps line, 4" Multipurpose line, and 2" Pad Oil line. See Decommissioning Plan Layout appendix page 7.

To adjust water levels within the planned containment levee system a new brine recirculation pump will be installed on the perimeter of the levee. This pump will utilize brine in the containment pond and incorporate it back into the active system through the existing brine overflow pit and oily/water sump.

APPENDIX

Decommissioning Plan

Overview of new line route

No.6 Brine Well

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No.7 Brine Well

New High Pressure Water, Brine, Multipurpose and Pad Oil lines to be installed connecting site header loop

16



Google Earth

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