Westlake US 2 Daily Report
Date Reported: 9/16/2023

Pressure Data:

9/15/2023 @ 6PM
7B Tubing Press = 70.5 psig
7B Annulus Press = 396.1 psig
Downhole Pressure in 7B Tubing = 1419 psig
7B Brine Injection Rate = 315.7 GPM
6X Annulus Press = 180.2 psig
PPG 2 Tubing Pressure = 249.5 psig
PPG 2 Annulus Press = 839.0 psig
PPG 4 Tubing Pressure = 248.3 psig
PPG 4 Annulus Press = 263.0 psig

9/16/2023 @ 4AM
7B Tubing Press = 71.9 psig
7B Annulus Press = 427.5 psig
Downhole Pressure in 7B Tubing = 1420 psig
7B Brine Injection Rate = 316.8 GPM
6X Annulus Press = 180.0 psig
PPG 2 Tubing Pressure = 249.8 psig
PPG 2 Annulus Press = 839.3 psig
PPG 4 Tubing Pressure = 248.5 psig
PPG 4 Annulus Press = 263.0 psig

Site Observations:

- Exploring options to excavate around the unknown object W of #7's well pad. This is considered wetlands so that will be evaluated first.
-ERM will be on site Monday to collect sample the gas on PPG 2 annulus when Westlake bleeds the pressure off.
-central lake water profile attached.

Operational Notes:

-Surface Seismic:
-Seismic vendor has completed all 5 stations. System should be operations by end of next week. MEQ will then submit updated seismic monitoring plan. Note, the existing equipment will remain in place until new system is active.
Gas removal or oil withdrawal:
-No gas has been bled off any wells in the last 24 hours
-Westlake operations attempted oil withdrawal from #7 to frac tank. Note: reminder volume removed is measured by truck loading, not enough oil at this time for a truck load.
-6X Depressurization:
-Lonquist to provide proposal and procedure to perform this work via a snubbing rig. Expected by 9-25.
-3D Seismic:
-Caprock and salt contour maps for the whole dome will be completed by end of month. Lonquist will be submitting formal request for extension to complete the final report by 9-18.
-Monitoring wells:
-ERM is working with Lonquist to get UIC-25 submitted.
-PPG 20 Inactive Letter:
-Lonquist is working Westlake to answer questions before finalizing the letter
-Sub-surface Seismic:
-Equipment is being ordered. We are still on track for installation in early 2024.
-Geo-mechanical Studies:
-Respec to submit scope and priority list by end of next week.

Reported by: Josh Bradley (Westlake)

Date: 9-15-23

Sulphur Field Observation Daily Report (Dayshift)

Site 1 (E of #22 BW)	(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity

	Morning	Afternoon
O2	20.9	20.8
H2S/Methane	0	0
H2s	0.0	0.0
PID (VOC)	0.0	0.0

Site 3 (Central Lake)	(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity

	Morning	Afternoon
O2	20.9	~~20.9~~
Methane	0	0
H2s	0.0	0.0
PID (VOC)	0.0	0.0

Site 4 (Central Lake)	(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity

	Morning	Afternoon
O2	20.9	21.0
Methane	0	0
H2s	0.0	0.0
PID (VOC)	0.0	0.0

Site 5 (Central Lake)	(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity

	Morning	Afternoon
O2	20.9	21.0
Methane	0	0
H2s	0.0	0.0
PID (VOC)	0.0	0.0

Site 6 (Central Lake)	(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity

	Morning	Afternoon
O2	20.9	21.0
Methane	0	0
H2s	0.0	0.0
PID (VOC)	0.0	0.0

Site 7 (Central Lake)	(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity

	Morning	Afternoon
O2	20.9	21.0
Methane	0	0
H2s	0.0	0.0
PID (VOC)	0.0	0.0

Site 8 (Central Lake)	(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity
		Morning	Afternoon		
O2		20.9	20.9		
Methane		0	0		
H2s		0.0	0.0		
PID (VOC)		0.0	0.0		

Site 9 (#4 BW Pond)	(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity
		Morning	Afternoon		
O2		20.9	21.0		
Methane		0	0		
H2s		0.0	0.0		
PID (VOC)		0.0	0.0		

Site 10 (Yellow rock #7)	(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity
		Morning	Afternoon		
O2		20.8	20.9		
Methane		0	0		
H2s		0.0	0.0		
PID (VOC)		0.0	0.0		

Site 12 (Central Lake)	(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity
		Morning	Afternoon		
O2		20.9	20.9		
Methane		0	0		
H2s		0.0	0.0		
PID (VOC)		0.0	0.0		

Site 14 (Central Lake)	(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity
		Morning	Afternoon		
O2		20.9	20.9		
Methane		0	0		
H2s		0.0	0.0		
PID (VOC)		0.0	0.0		

Site 17 (Central Lake)	(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity
		Morning	Afternoon		
O2		20.9	20.9		
Methane		0	0		
H2s		0.0	0.0		
PID (VOC)		0.0	0.0		

Site 18 (Central Lake)	(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity
		Morning	Afternoon		
O2		20.9	21.0		
Methane		0	0		
H2s		0.0	0.0		
PID (VOC)		0.0	0.0		

Site 21 (Central Lake)	(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity

	Morning	Afternoon
O2	20.9	20.9
Methane	0	0
H2s	0.0	0.0
PID (VOC)	0.0	0.0

Site 22 (Central Lake)	(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity

	Morning	Afternoon
O2	20.9	20.9
Methane	0	0
H2s	0.0	0.0
PID (VOC)	0.0	0.0

Site 23 (Central Lake)	(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity

	Morning	Afternoon
O2	20.9	20.9
Methane	0	0
H2s	0.0	0.0
PID (VOC)	0.0	0.0

Site 24 (Central Lake)	(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity

	Morning	Afternoon
O2	20.9	20.9
Methane	0	0
H2s	0.0	0.0
PID (VOC)	0.0	0.0

Site 25 (Central Lake)	(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity

	Morning	Afternoon
O2	20.9	20.9
Methane	0	0
H2s	0.0	0.0
PID (VOC)	0.0	0.0

Site 19 (#4 BW Pond)	(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity

	Morning	Afternoon
O2	21.0	20.9
Methane	0	0
H2s	0.0	0.0
PID (VOC)	0.0	0.0

Site 20 (Sheen on Crystal Creek (Big Pond))	(Circle One)	Present	Not Present

	Morning	Afternoon
O2	N/A	N/A
Methane	N/A	N/A
H2s	N/A	N/A
PID (VOC)	N/A	N/A

#7B Wellhead Cellar	(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity

	Morning	Afternoon
O2	21.0	20.9
Methane	0	0
H2s	0.0	0.0
PID (VOC)	0.0	0.0

#7A Plugged Well Site	(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity

	Morning	Afternoon
O2	21.0	20.9
Methane	0	0
H2s	0.0	0.0
PID (VOC)	0.0	0.0

#26 Bubble site (Crystal Lake Big Pond)	(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity

	Morning	Afternoon
O2	20.9	21.0
Methane	0	0
H2s	0.0	0.0
PID (VOC)	0.0	0.0

#7 Well Pad Site General Housekeeping
Check Berms for leaks or oil/brine
Check hoses at each connection from rental pump to piping tie-in
Check cellar for oil
Check Wellhead for leaks

New Observation or comments?

took samples central lake
fuel cell #1 7/8
fuel cell #2 full

Signature: MC

Central Lake Water Column Profile

Sulphur Dome - Calcasieu Parish, Louisiana

Date:	9-15-23	Time:	7:20
Depth (ft):	3'5"		
	Top (Blue)	Middle (Yellow)	Bottom (Red)
pH	8.04	7.96	7.55
SC (uS/cm)	3554	3416	3426
ORP (mV)	149	144	-81
Temp (°C)	25.0	26.2	26.2
TDS (ppm)	2650	2545	2549

Cond

Date:		Time:	
Depth (ft):			
	Top (Blue)	Middle (Yellow)	Bottom (Red)
pH			
SC (uS/cm)			
ORP (mV)			
Temp (°C)			
TDS (ppm)			

Cond -

Date:		Time:	
Depth (ft):			
	Top (Blue)	Middle (Yellow)	Bottom (Red)
pH			
SC (uS/cm)			
ORP (mV)			
Temp (°C)			
TDS (ppm)			

Cond.

Date:		Time:	
Depth (ft):			
	Top (Blue)	Middle (Yellow)	Bottom (Red)
pH			
SC (uS/cm)			
ORP (mV)			
Temp (°C)			
TDS (ppm)			

Cond

Date: 9-15-2023

Sulphur Field Observation Daily Report (Nightshift)

	5pm	6pm	7pm	8pm	9pm	10pm	11pm	12am	1am	2am	3am	4am
7b Tubing Pressure	71.2	70.5	71.6	70.9	71.5	71.6	71.4	71.4	72.7	71.9	72.4	71.9
7b Annulus Pressure	386.2	396.1	406.7	415.9	423.7	427.1	426.8	427.0	427.5	427.7	427.9	427.5
7b Injection Rate	316.2	315.7	316.5	316.7	317.0	316.6	315.6	315.6	318.3	317.7	317.4	316.8
7b Downhole Gauge	1419/92	1419/92	1419/92	1419/92	1419/92	1419/92	1419/92	1420/92	1420/92	1420/92	1420/93	1420/92
6x Pressure	180.2	180.2	180.2	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.0	180.0
2 Tubing Pressure		249.5										249.8
2 Annulus Pressure		839.0										839.3
4 Tubing Pressure		248.3										248.5
4 Annulus Pressure		263.0										263.0

Site 1 (E of #22 BW)		(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity			
O2	20.9						20.9		20.9
Methane	0						0		0
H2s	0.0						0.0		0.0
PID (VOC)	0.0						0.0		0.0

7A Plugged Well Site		(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity			
O2	20.8						20.8		20.8
Methane	0						0		0
H2s	0.0						0.0		0.0
PID (VOC)	0.0						0.0		0.0

Site 10 (Yellowrock #7)		(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity			
O2	20.7						20.7		20.8
Methane	0						0		0
H2s	0.0						0.0		0.0
PID (VOC)	0.0						0.0		0.0

Site 9 (#4 BW Pond)		(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity			
O2	20.9						20.8		20.8
Methane	0						0		0
H2s	0.0						0.0		0.0
PID (VOC)	0.0						0.0		0.0

Site 19 (#4 BW Pond)		(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity			
O2	20.9						20.8		20.8
Methane	0						0		0
H2s	0.0						0.0		0.0
PID (VOC)	0.0						0.0		0.0

#7b Wellhead Cellar		(Circle One)	More Intense	Less Intense	No Bubbles	Bubbling - no change in intensity			
O2	20.9						20.8		20.8
Methane	0						0		0
H2s	0.0						0.0		0.0
PID (VOC)	0.0						0.0		0.0

#7 Well Pad Site General Housekeeping	
	Check Berms for leaks or oil/brine ✓
	Check hoses at each connection from rental pump to piping tie-in ✓
	Check cellar for oil ✓
	Check Wellhead for leaks ✓

New Observation, Intensity changes, or comments?	

Signature: JSP