



Facility ID: 312756

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FEB 25 2014  
COGCC

**Jerry Smothermon**

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**From:** Jerry Smothermon [jerrydsmo@msn.com]  
**Sent:** Saturday, February 22, 2014 10:20 AM  
**To:** Alex Fischer (alex.fischer@state.co.us)  
**Cc:** Chris Collins (cpcollins20@yahoo.com)  
**Subject:** Iles Dome ( Blair Rollins) punch list, item 6

Under separate cover, and this date, I am mailing you information/data regarding subject per Blair Rollins "punch list", item number 6. You have been previously provided this list from Blair.

Thx  
Jerry

Jerry Smothermon PE  
Consulting Petroleum Engineer  
Direct 720-382-2690  
C 303-919-0927  
F 303-296-0329

# Iles Dome Unit

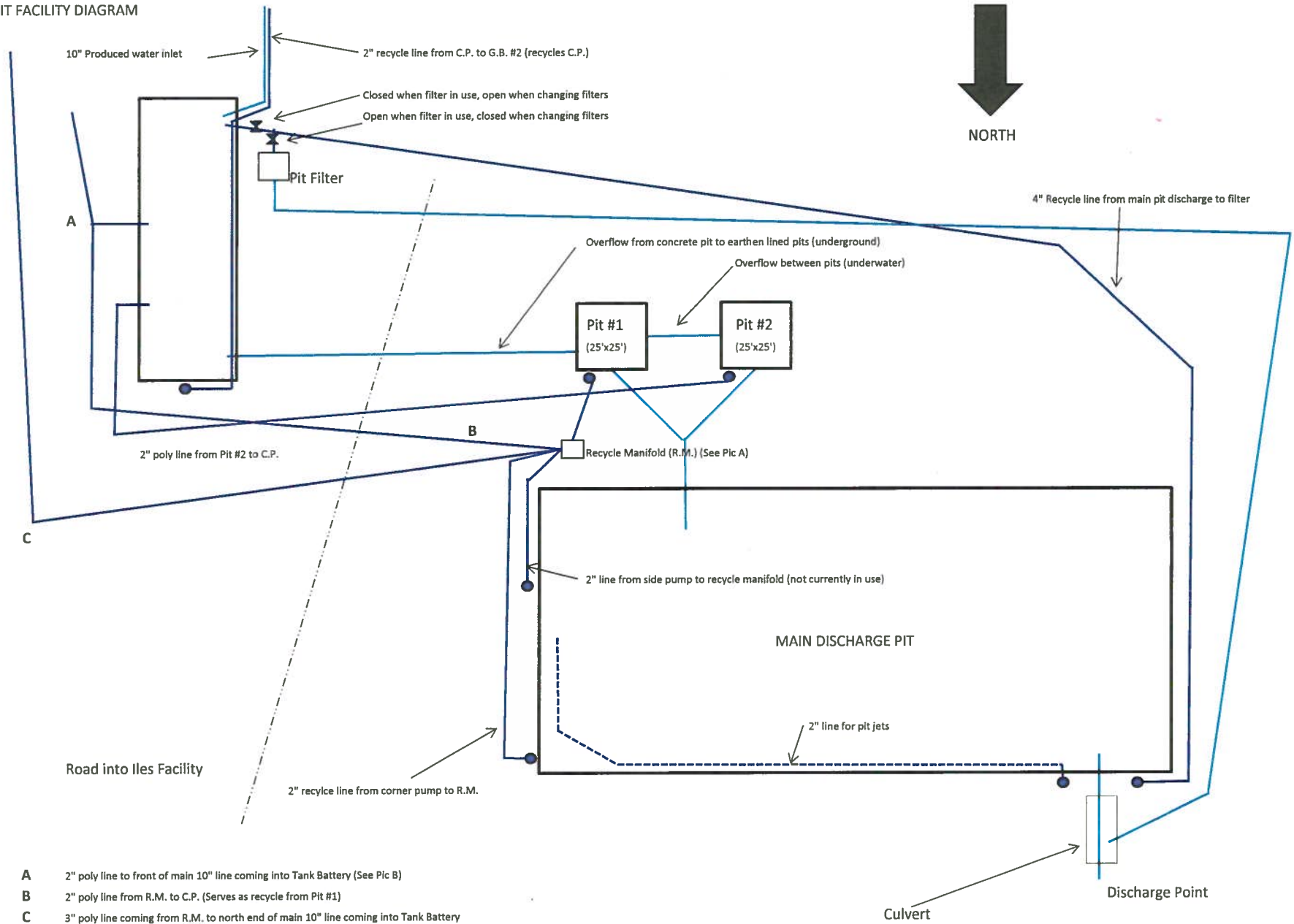
Production Flow Narrative  
(See Attached Flow Diagrams)



1. All produced fluid enters the facility from the south end and flows into a 10" main gathering line. Current production comes from the following wells: Iles Dome 8, Iles Dome #11, Iles Dome #22, Iles Dome #24, Iles Dome #25, and Iles Dome #37. Iles Dome #6 and Iles Dome #26 are currently shut-in.
2. The 10" gathering line travels north along the east side of the tank battery where it currently enters the following 1500bbl gun-barrels: Tank #2, Tank #5, and Tank #6.
3. In the gun-barrel, the oil and water is separated via gravity, retention, and mechanical methods using a down-comer located near the bottom. Water gets pulled off the bottom of the tank via a water leg located approximately 2' off bottom, and the oil is skimmed off near the top of the tank via a 2" flowline.
4. All oil gets sent to Tank #7 and Tank #8, which are the shipping tanks. During the production phase, the sales valves are sealed shut. During the shipping phase, the tank which is being shipped out of is sealed shut to new production.
5. The oil tanks are equipped with recycle valves which allow for recycling of "wet" oil to Tank #3 where the oil can be further dehydrated. The recycle system also allows for water to be pulled off the bottom of the shipping tanks and put back into the main recycle 2" line which routes to the top of Tanks #5.
6. Water produced out of the 1500bbl gun-barrels is sent to the Concrete Pit via the 10" water line located on the west edge of the tank battery. At the Concrete Pit, oil is skimmed at the north edge of the pit and sent back to Tank #5 where it is further clarified.
7. Water is sent from the Concrete Pit to both Pit #1 and Pit #2. At each pit, oil is skimmed off the top of the pit and sent back to the Concrete Pit for further clarifying. Oil from Pit #1 is routed to the Recycle Manifold located to the NW of the pit, and oil from Pit#2 is sent directly to the concrete pit via a 2" flowline.
8. Water from both Pit #1 and Pit#2 flow into the Main Pit and is eventually discharged at the NW corner of the Main Pit. There are four skimmers located on the Main Pit. The skimmers located on the east edge and NE corner send fluid back to the Recycle Manifold via 2" lines, and the fluid is then routed back to the Concrete Pit via a 2" line.
9. The eastern most skimmer located in the NW corner discharges into a jetting system located within the Main Pit and pushes water toward the skimmer located in the NE corner.
10. The western most skimmer routes water back to the filter pot located at the SE corner of the Concrete Pit and is returned to the discharge point located at the NW corner of the Main Pit.



PIT FACILITY DIAGRAM



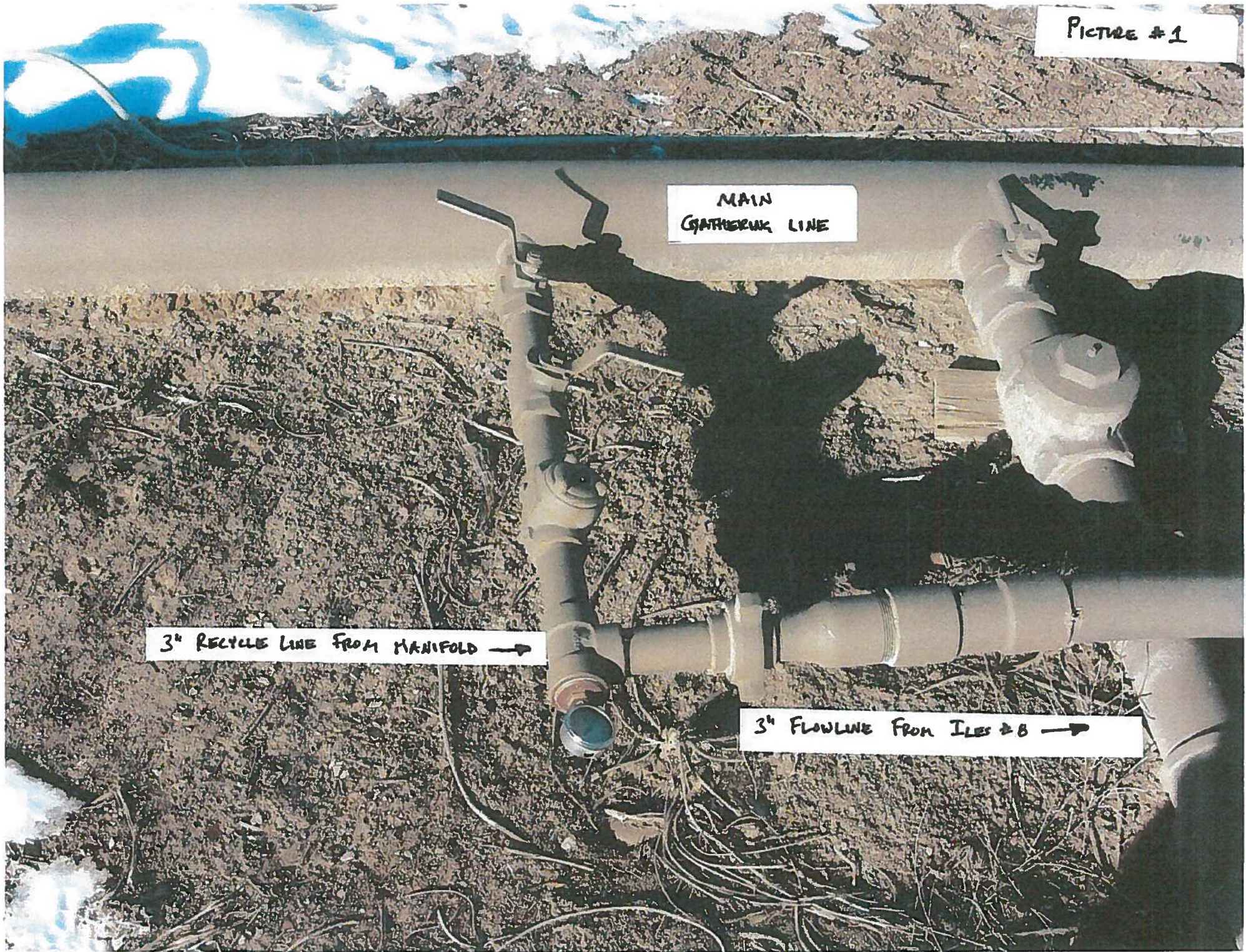
- A 2" poly line to front of main 10" line coming into Tank Battery (See Pic B)
- B 2" poly line from R.M. to C.P. (Serves as recycle from Pit #1)
- C 3" poly line coming from R.M. to north end of main 10" line coming into Tank Battery

PICTURE #1

MAIN  
GATHERING LINE

3" RECYCLE LINE FROM MANIFOLD →

3" FLOWLINE FROM ILES #8 →



2<sup>nd</sup> RECYCLE LINE (NOT IN USE) ↓

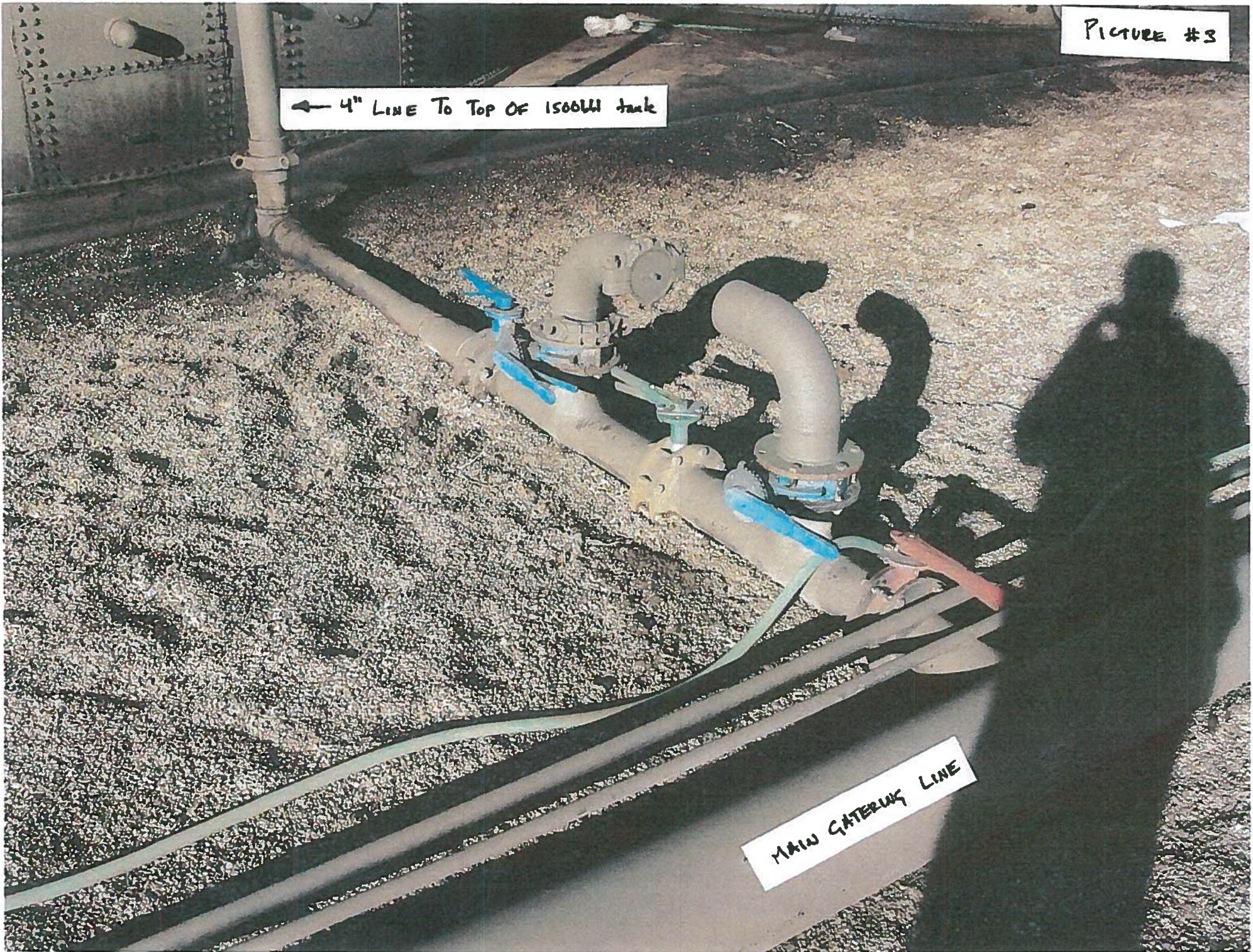
← MAIN GATHERING LINE

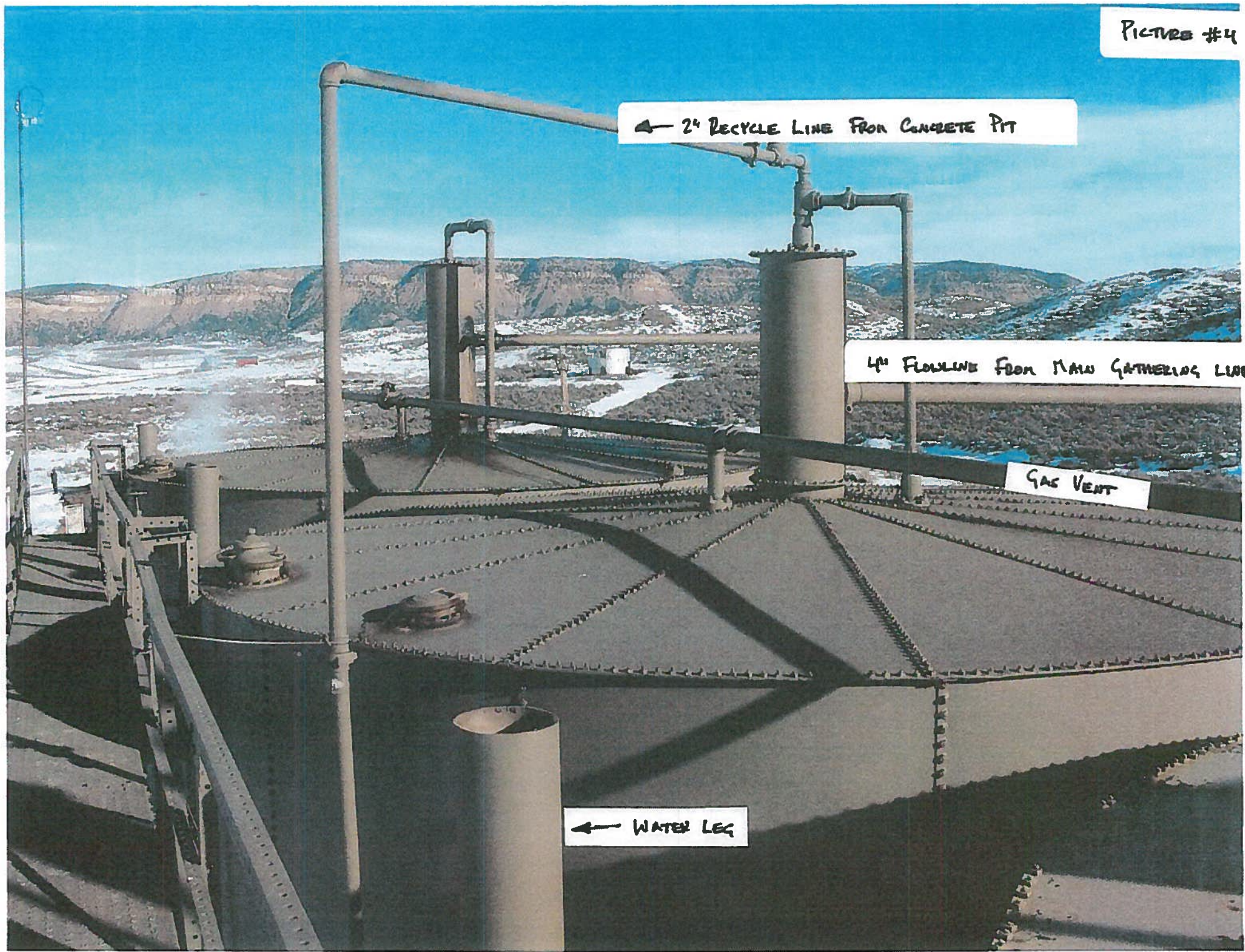


PICTURE #3

← 4" LINE TO TOP OF 1500W tank

MAIN GATERING LINE





← 2" RECYCLE LINE FROM CONCRETE PIT

4" FLOWLINE FROM MAIN GATHERING LINE

GAS VENT

← WATER LEG

PICTURE A

2" LINE FROM PIT #1 ↓

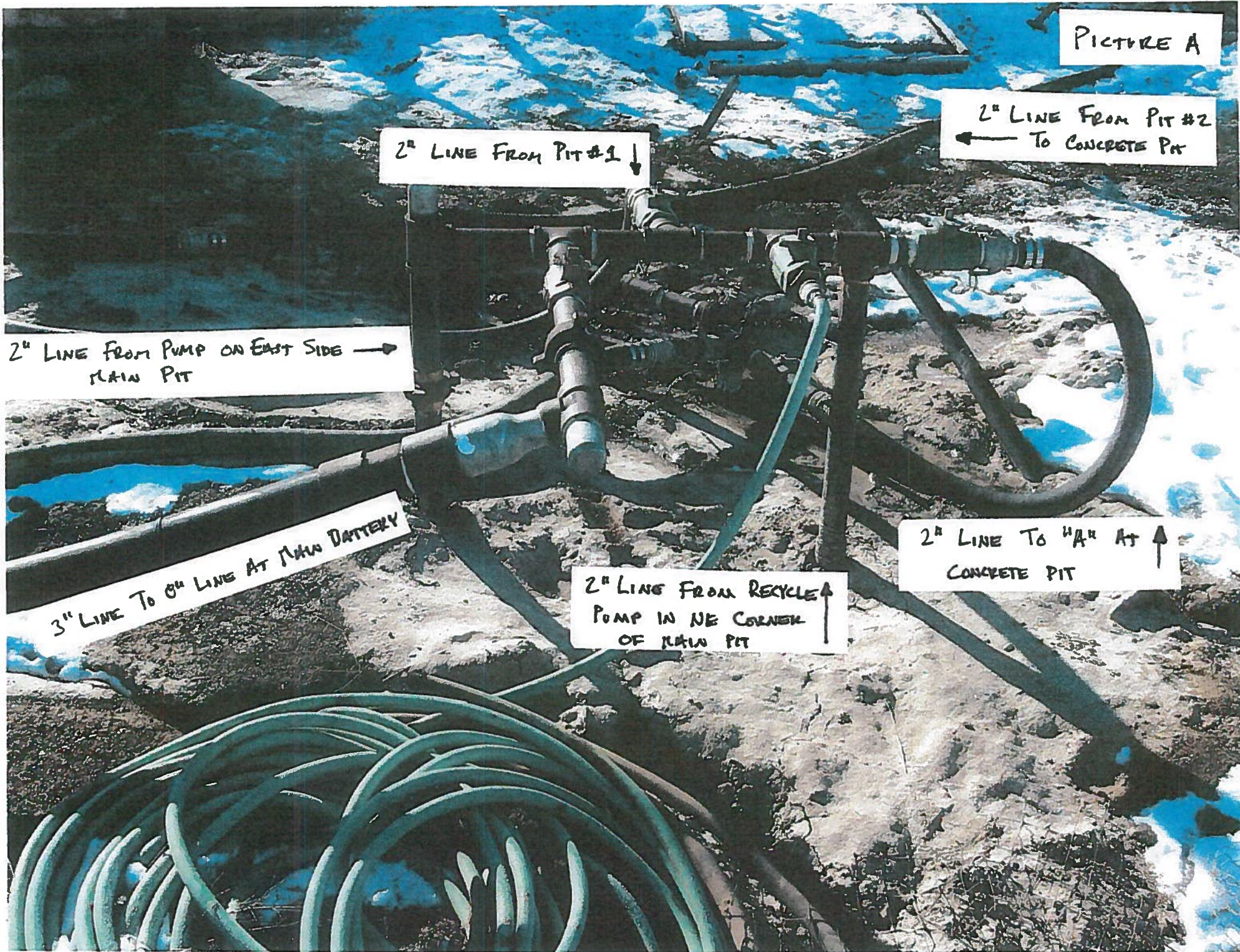
2" LINE FROM PIT #2  
← TO CONCRETE PIT

2" LINE FROM PUMP ON EAST SIDE →  
RAIN PIT

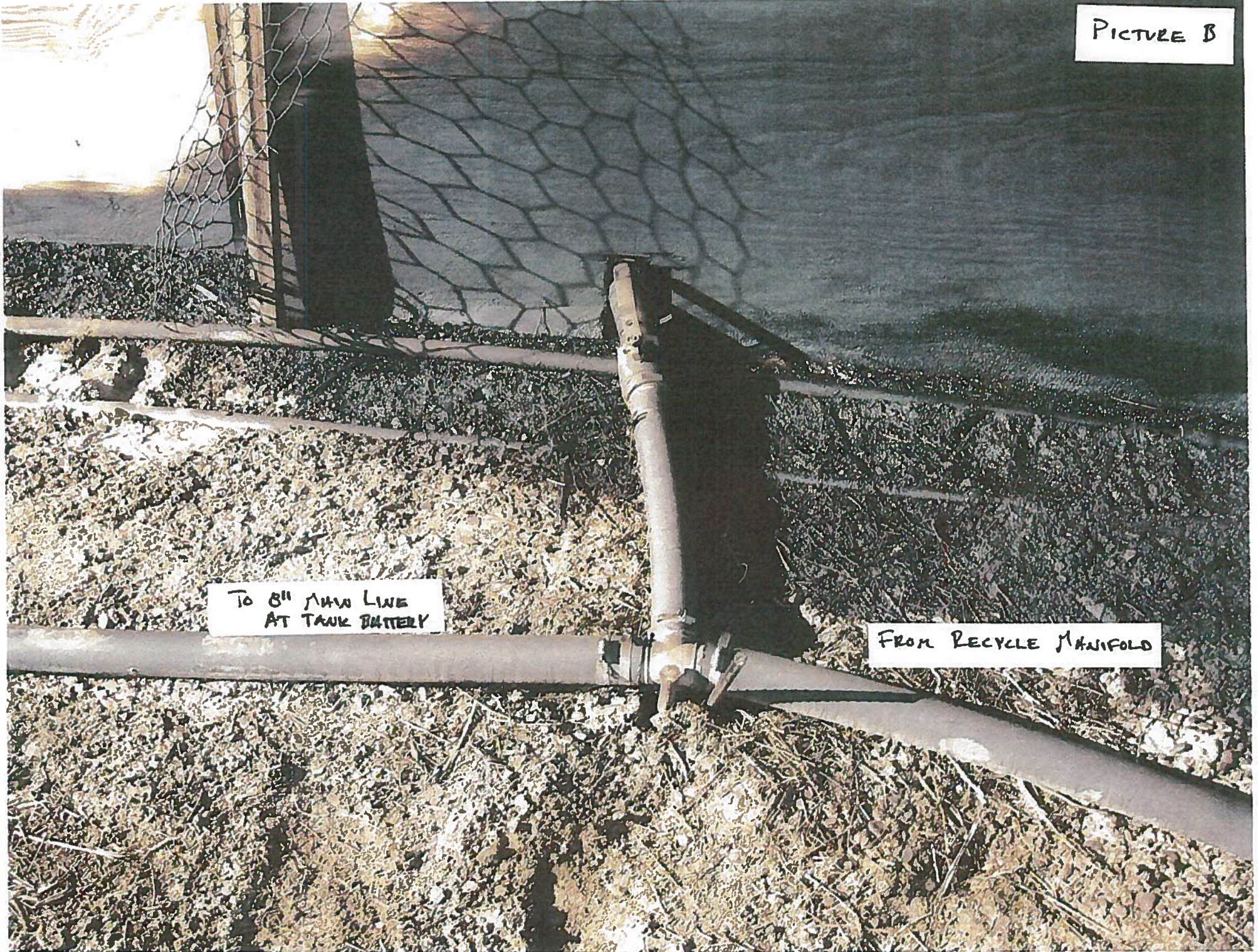
3" LINE TO 6" LINE AT MAIN DATTERY

2" LINE FROM RECYCLE ↑  
PUMP IN NE CORNER  
OF RAIN PIT

2" LINE TO "A" AT ↑  
CONCRETE PIT



PICTURE B



TO 8" MAIN LINE  
AT TANK BATTERY

FROM RECYCLE MANIFOLD



**ILES DOME UNIT - PDC-1 LLC**  
UNIT NUMBER CO# 43022 - LEASE # 0704 8 2002  
NEW SEC. 23, T4N, R22W, MOUNTAIN COUNTY, CO  
ACCESS VIA COUNTY ROAD 49  
CONTACT NUMBER 1-307-237-7834  
**EMERGENCY NUMBER**  
**1-877-276-3556**





2" Recycle line from C.P.

10" Water Line from 1500bbl tanks to C.P.

4" Sales Lines

Dog House (Field Office)

LACT

LACT - Out of service

4" Sales Line to LACT (Not in use)

2" recycle line from R.M. at pits (not in use)

Recycle pump to pull off water from bottom of tanks into recycle lines. (Multiple lines and valves)

**TANK # DESCRIPTION**

- #1 Not currently in service
- #2 1500bbl Gunbarrell
- #3 Spare sales tank, extra oil storage
- #4 Not currently in service
- #5 1500bbl Gunbarrell
- #6 1500bbl Gunbarrell
- #7 Primary sales tanks
- #8 Primary sales tanks

4" Sales line swaged down to 3"

Valves closed (recycle line not in use - See Pic#2)

All recycle water from C.P. currently goes to this tank. 2" line on ground, up side of tank and in top of tank. (See Pic#4)

8" Oil/Water main line swedges down 4" travelling up side of tank and into top of gunbarrell (See Pic#4)

10" water leg off of 1500bbl tanks (Pulls from bottom)

Sales valve out of 1000bbl tank  
Valve closed during normal production operations (spare only)

Oil out of 1500bbl tanks to either 500bbl shipping tank or spare 1000bbl tank (2" Oil line from 1500bbl tank app. 2' from top of tank)

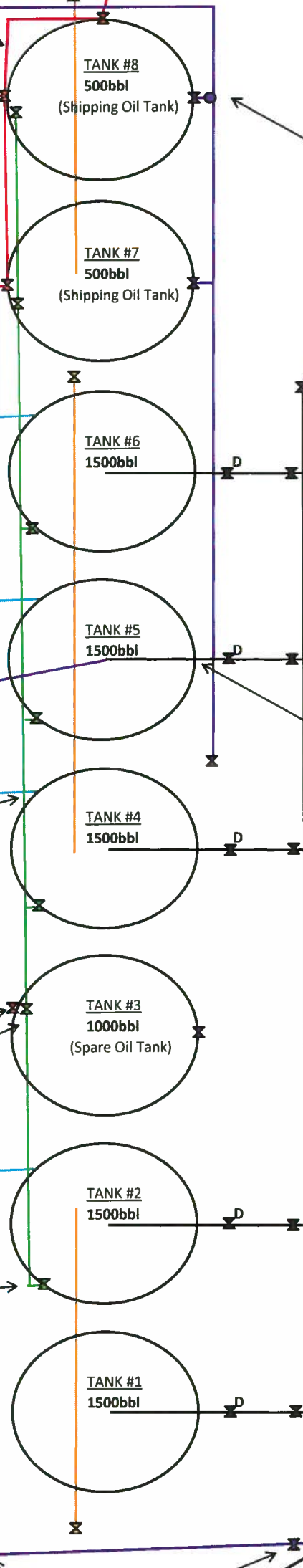
3" Poly line from R.M. at Pits (not in use)

3" Flowline from Iles #8

Valves closed (recycle line not in use - See Pic#1)

Recycle valves closed (not in use)

10" Main Gathering line from field (Iles 6, Iles 11, Iles 22, Iles 24, Iles 25, Iles 26, Iles 37)



**D** Multiple valves from Main Gathering line to 1500bbl gunbarrels (See Pic#3)