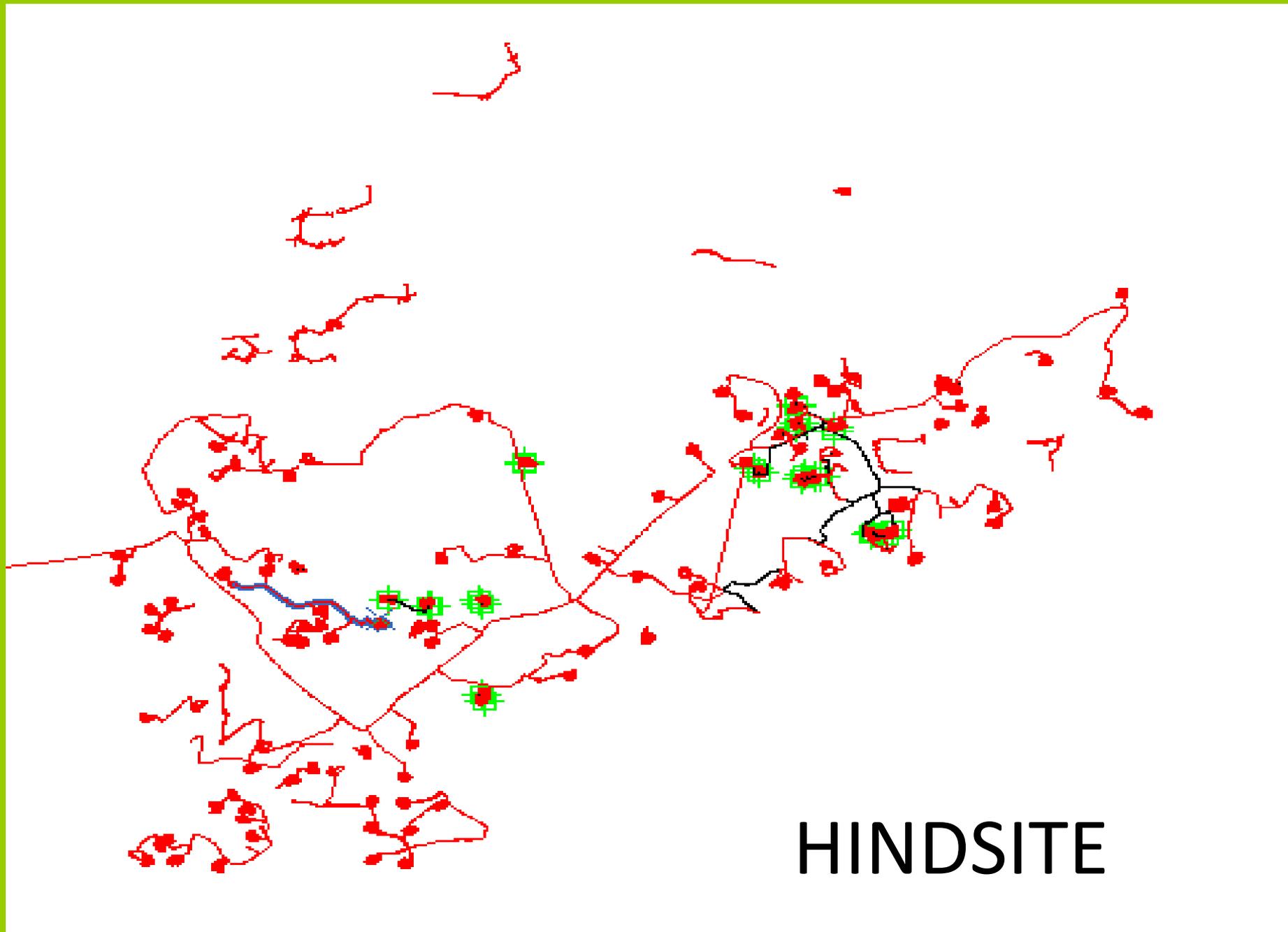






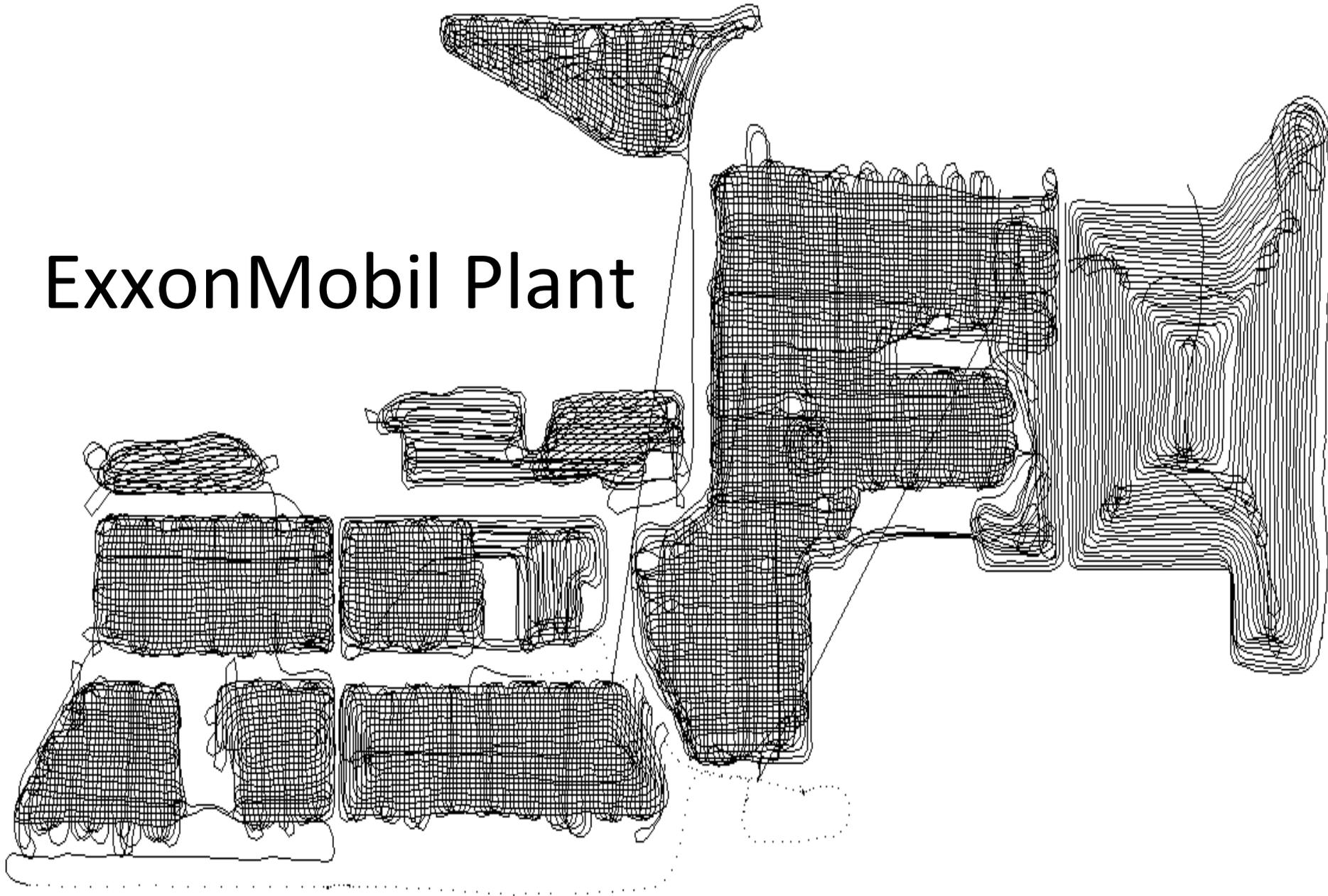
Seeding

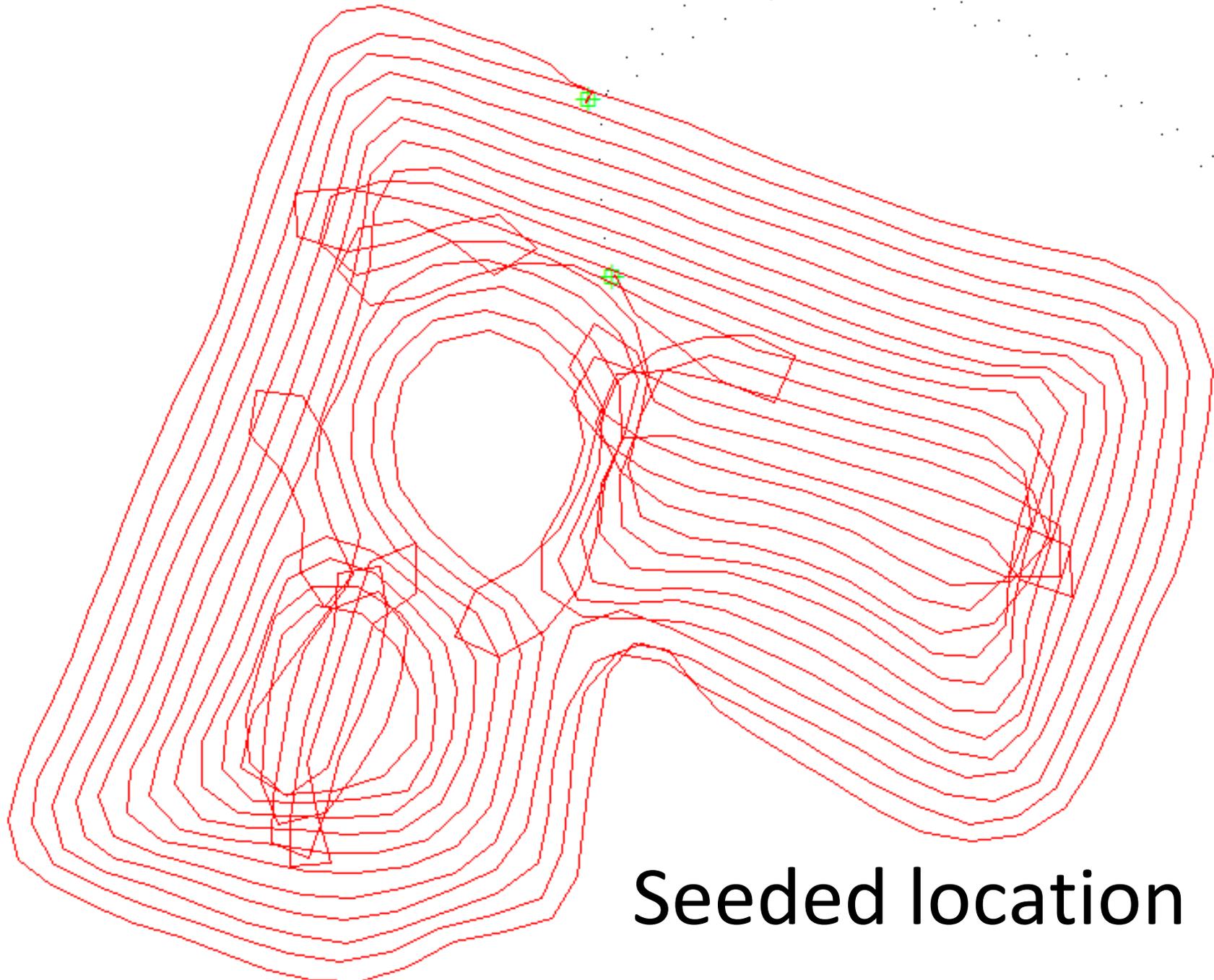
- Keeping track of areas seeded
- Quality control
- Photos with GPS
- Hidden information



HINDSITE

ExxonMobil Plant

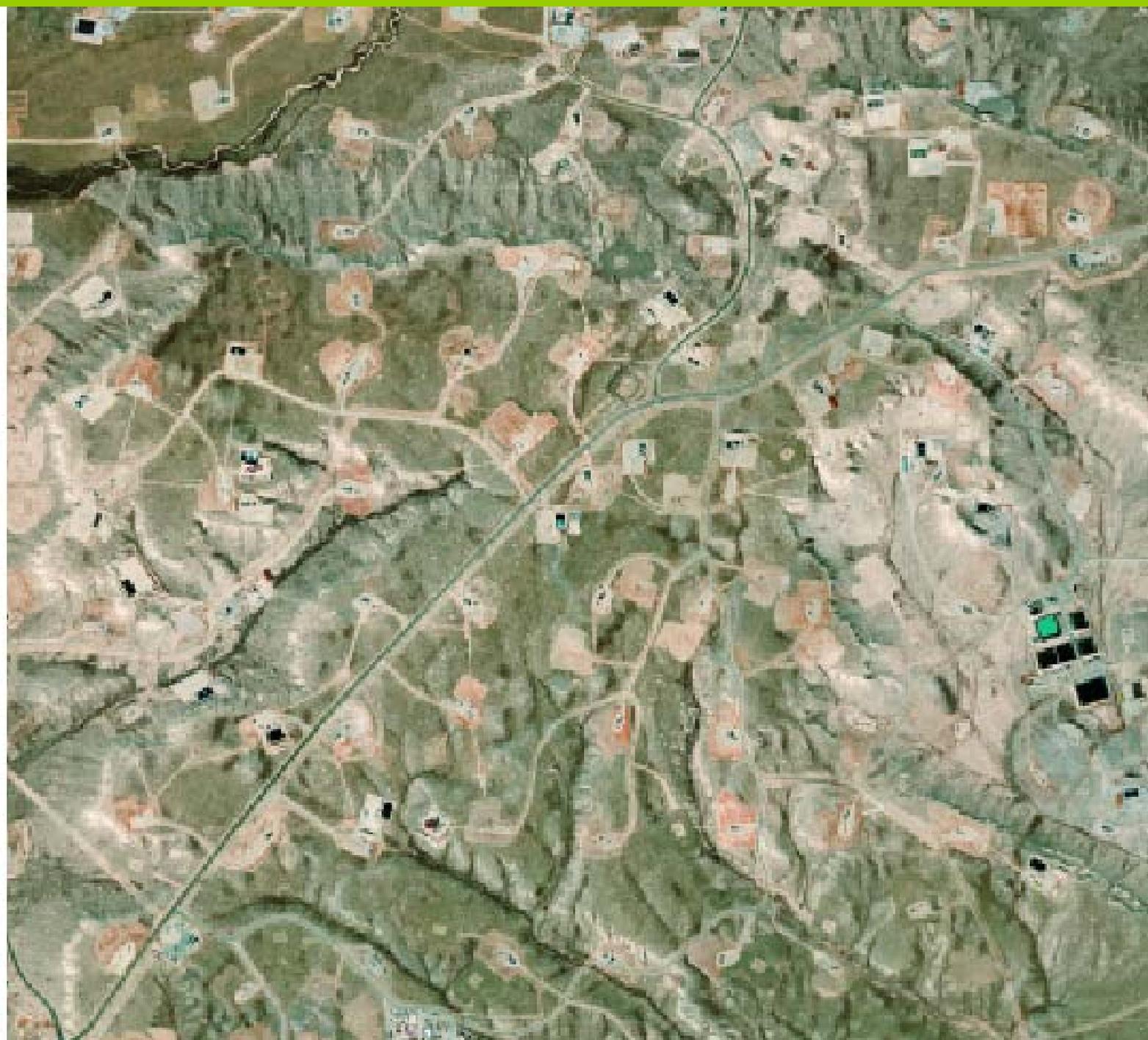


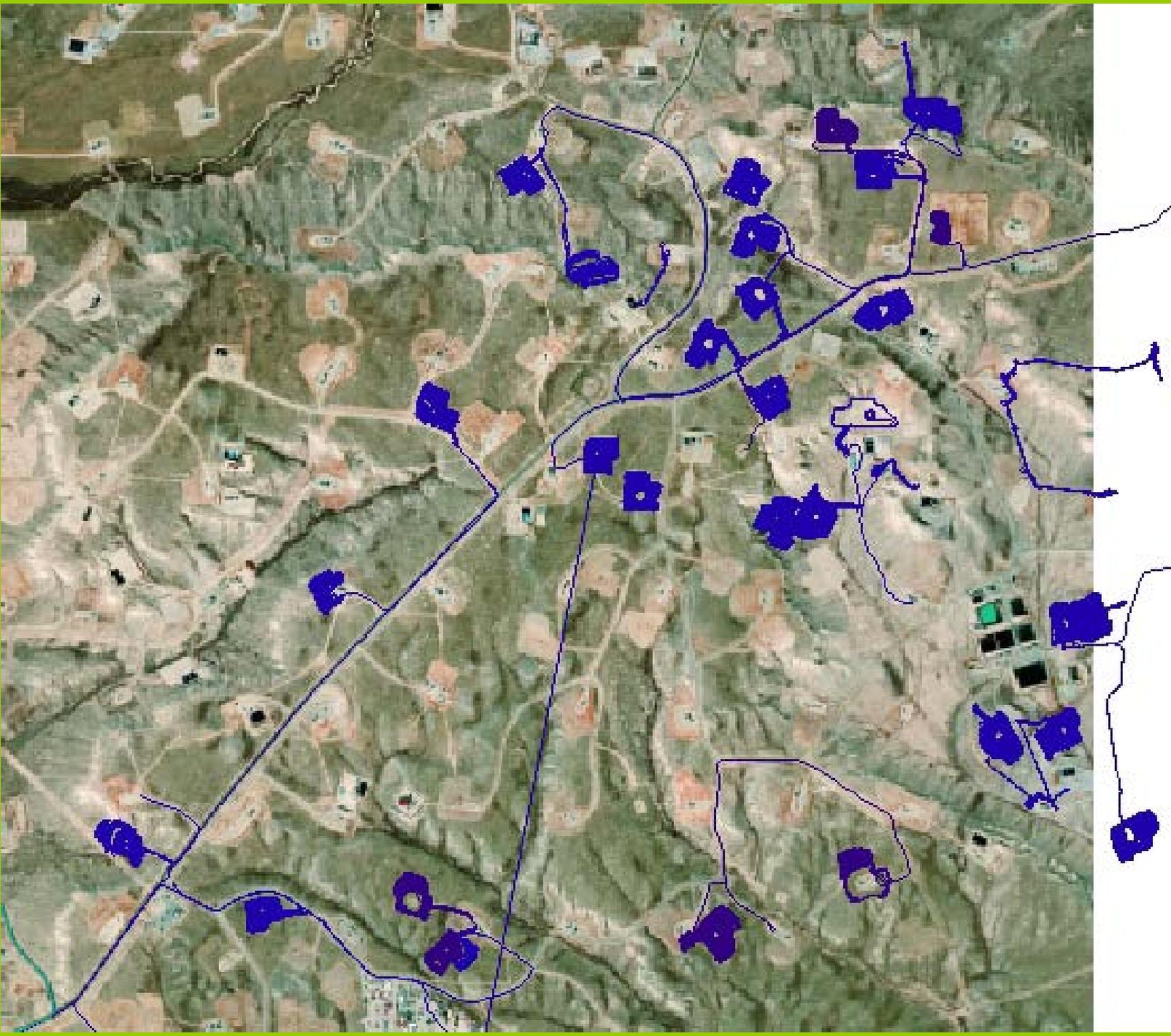


Seeded location



Photo
of
work
area



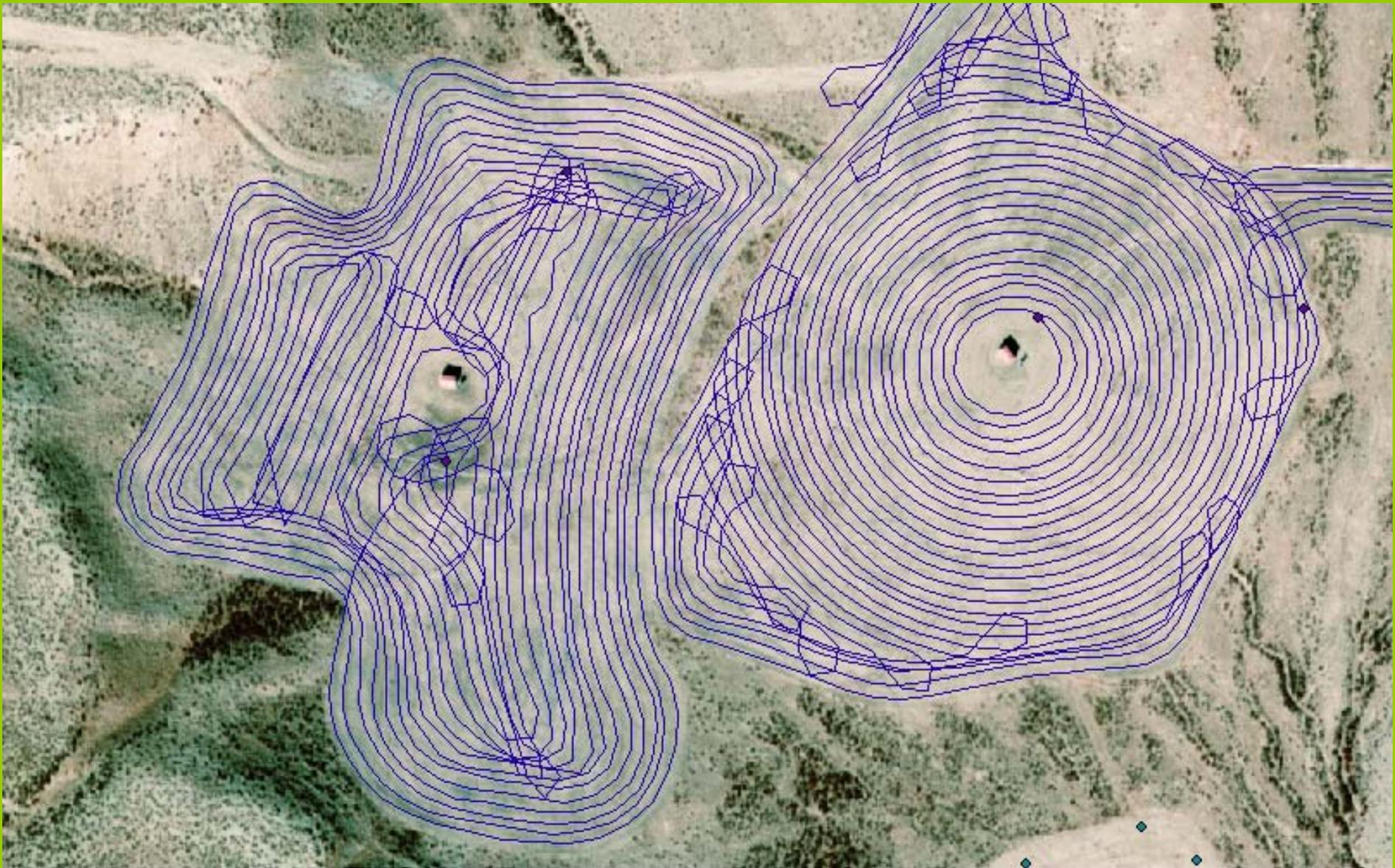


GPS
overlay2
008

Two Gas Locations



Seeded



Pipelines



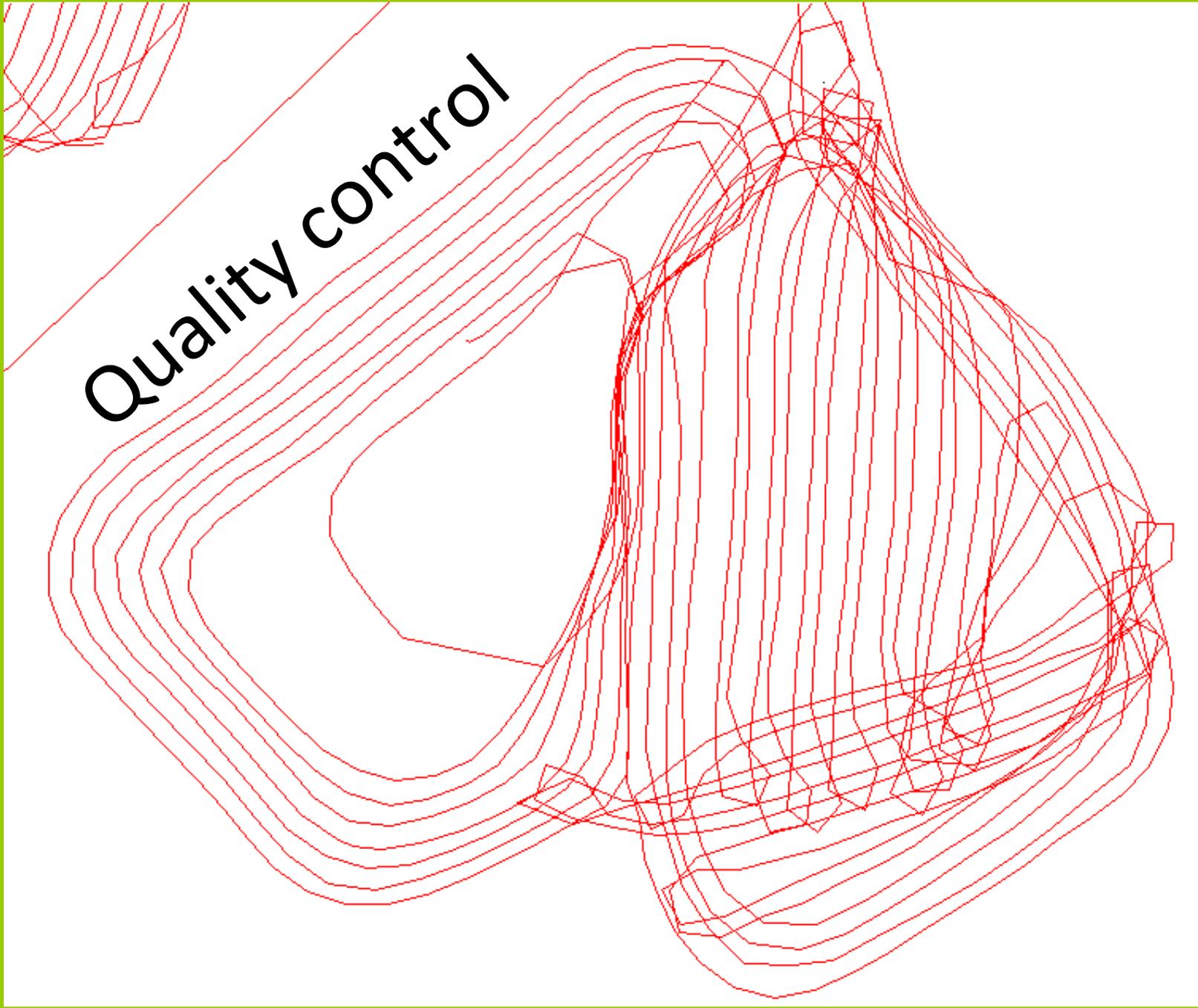




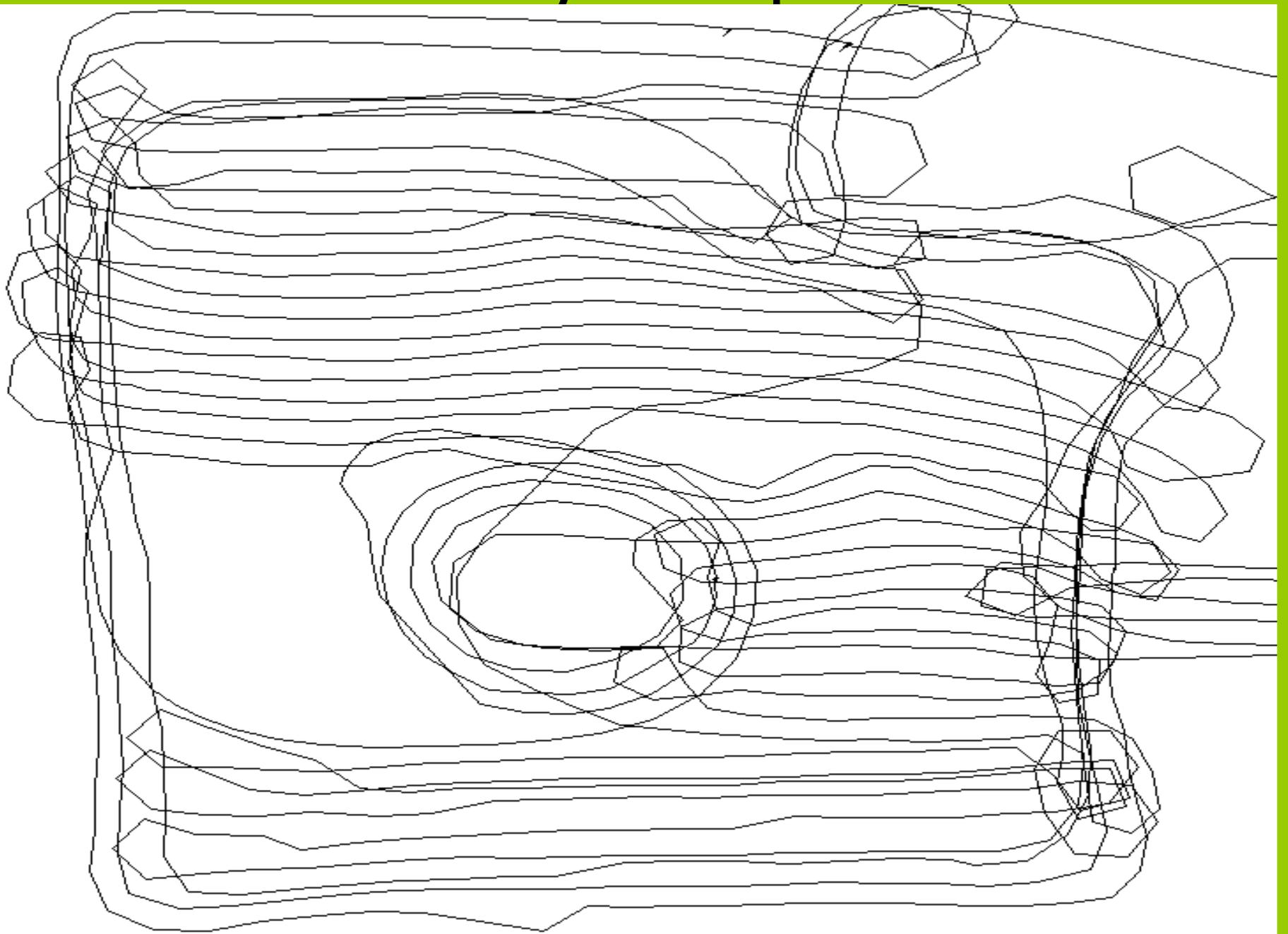
Quality Control

- What was actually seeded
- Was it seeded correctly
- Is there any follow up that is required

Quality control

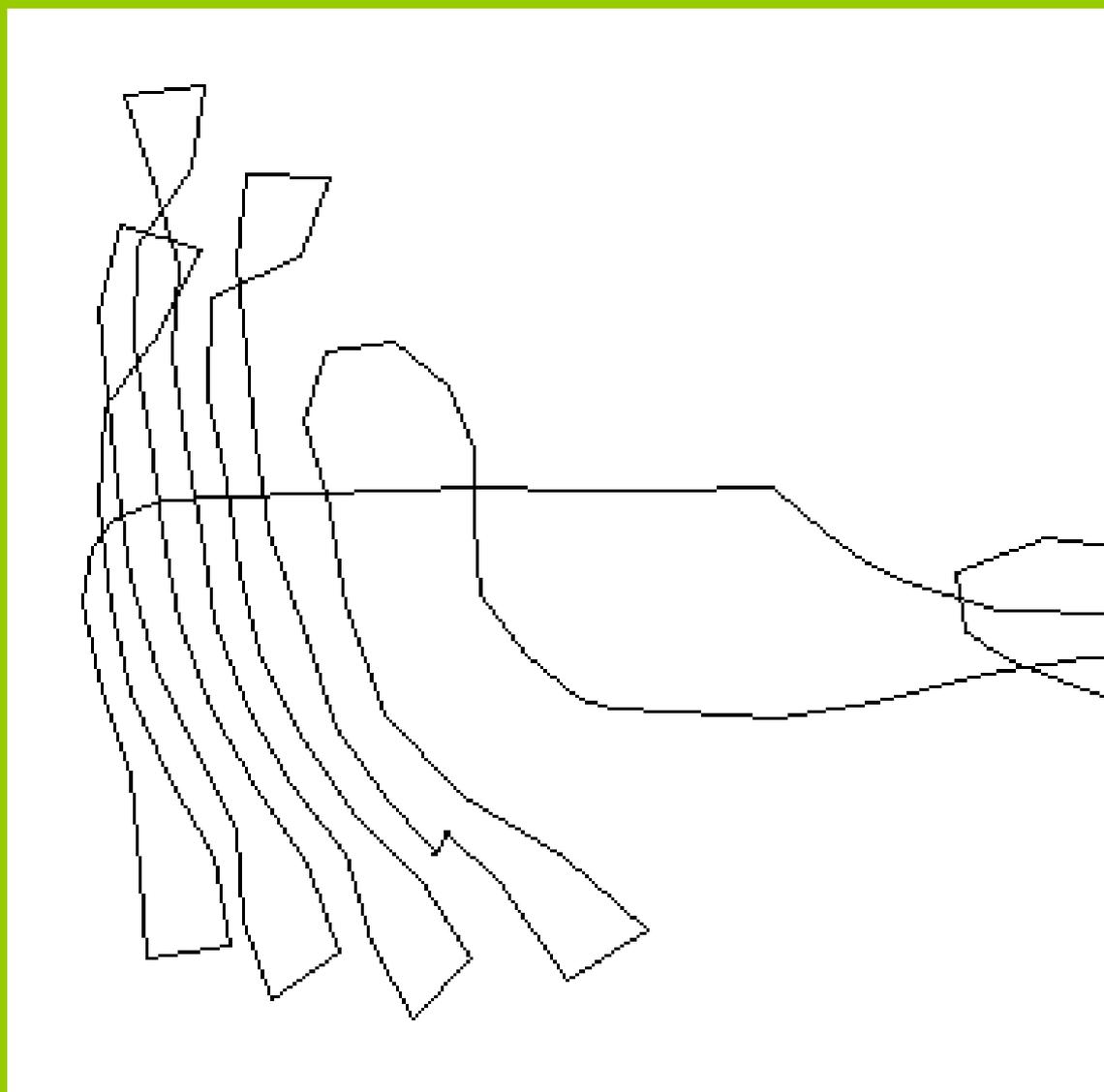


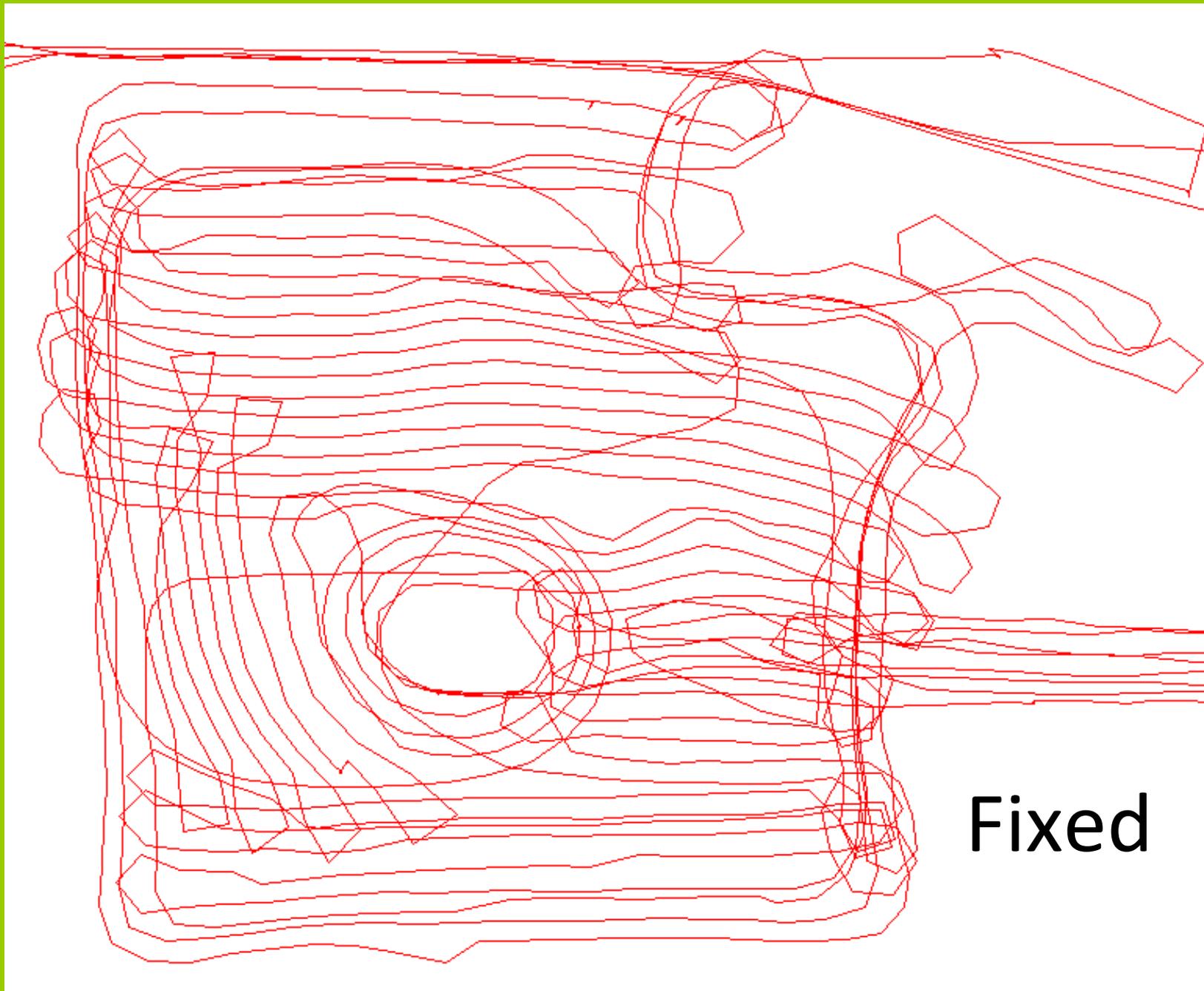
There may be a problem





The fix





Fixed





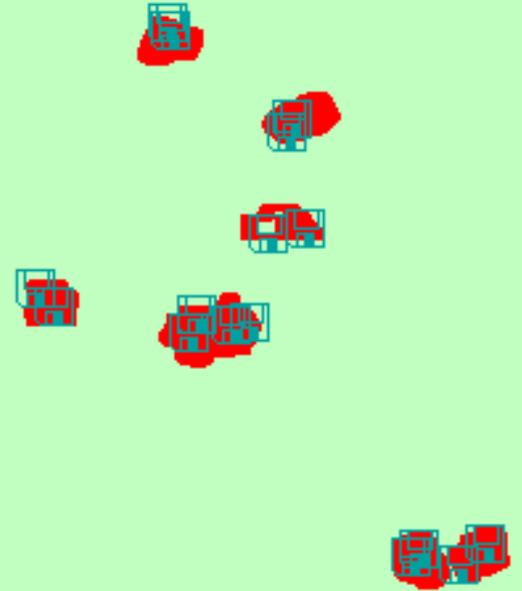
Photos

- How do we keep track of them?
- What do we keep track of?
- How do we make them available?

- What I have tried to do
 - Location name
 - Seed tag
 - Pictures of location

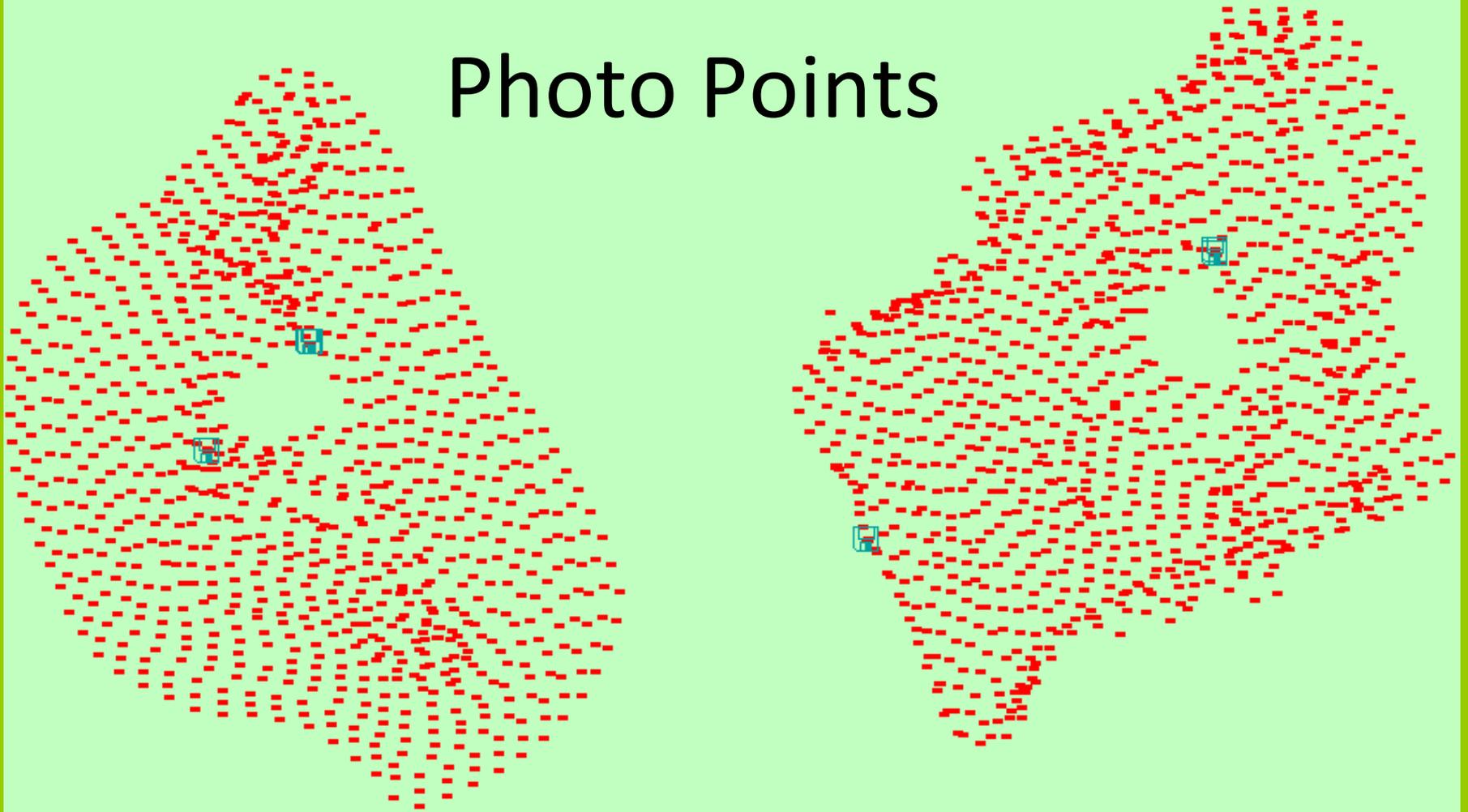
EnCana Seeding

Photo sites



EnCana Seeding

Photo Points



EnCana Seeding

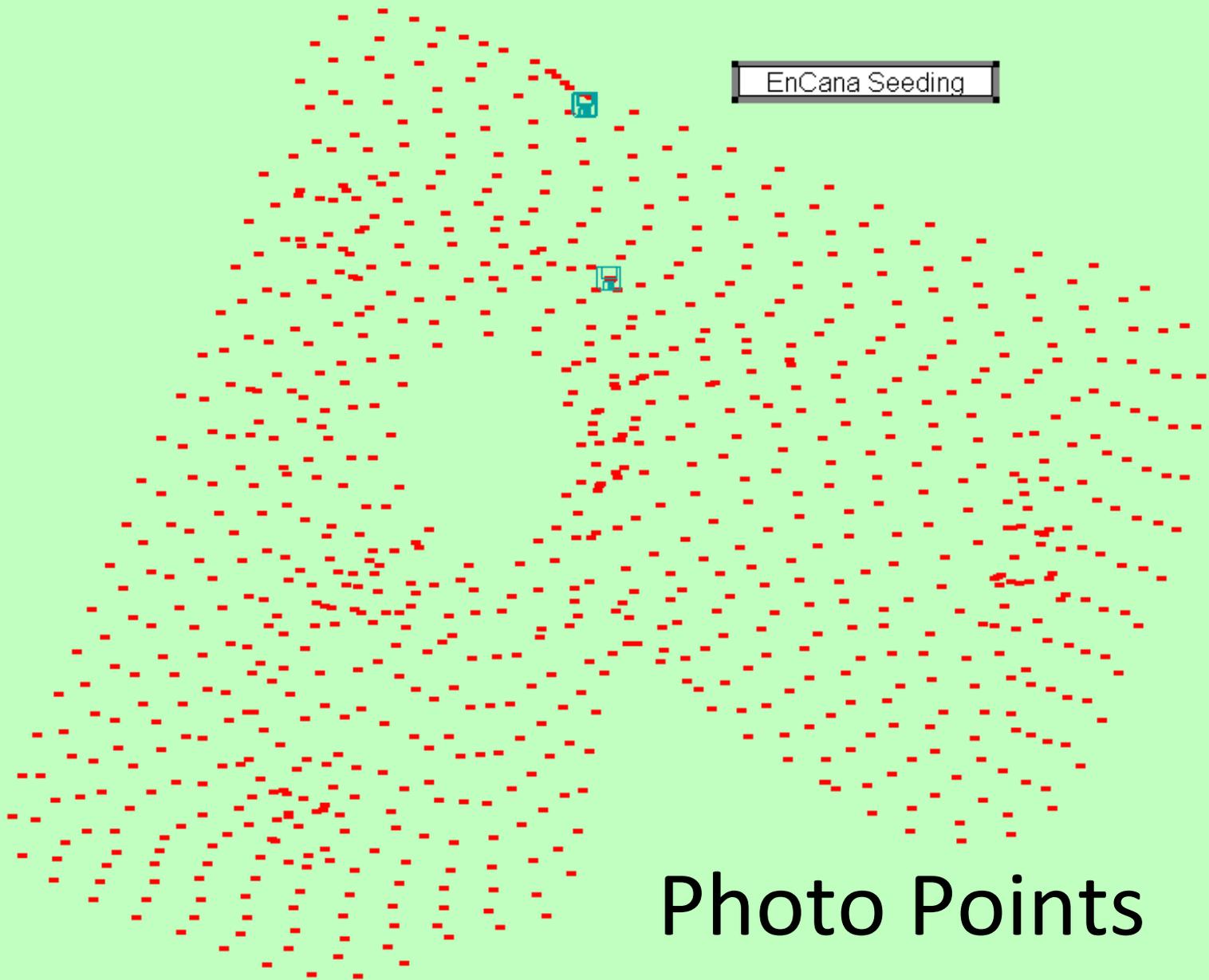


Photo Points

Location Photo

**EnCana Oil
&
Gas (USA) Inc
Stud Horse Butte 75-26
LEASE # WYW-127749
(S)SESW,(Lot 14), 477' FSL, 1576' FWL
(BH)SESW,(Lot 14), 200' FSL, 1576' FWL
SEC 26, T29N, R108W
SEC 26, T29N, R108W
SUBLETTE COUNTY, WY**

**IN CASE OF EMERGENCY
CALL 24-HOUR TOLL FREE
1-877-386-2200**

Seed Mix

3075 Lane 51 1/2
Manderson, WY 82432
(307) 588-3351

RANGE
CO:
ELE:

Order Number: 2088
Project Number:
Project Name: 2088 Encana Jonah
Blend Name: Mts A Shrub Forb
Date Tested: 02/12/08

Sold To: Encana Oil & Gas

Species & Variety	Pure Seed %	Total Viable		Origin
		Germ	TZ	
Shadscale	20.78	43	43	UT
Winterfat	1.58	48	48	MT
Chester Defoliant	2.84	42	42	WY
Globeamallow Scarlet	1.42	52	52	UT
Buckwheat, Wyeth, E heracleoides, bracts	1.28	33	33	UT
Big Sagebrush, Wyoming	8.56	83	83	UT
Penstemon palmeri, Palmer	8.85	81	81	UT
Aster, Blueleaf, Eurybia glauca	0.40	93	93	WY
Evening Primrose, White	0.65	91	91	CA
Gardner Saltbush, trident	5.11	72	72	MT
Yarrow, White native	0.75	98	98	NZ
Beeplant Rocky Mountain	0.22	24	24	UT
Aster Prairie	0.92	80	80	

Noxious Weeds: None Found
Restricted: None Found

Weed Seed: 0.01
Other Crop: 0.06
Inert Matter: 47.92
Total: 180

Hard Seed: 0.00
Dormant: 0.00
Lot #: 20832-1

Bulk Lbs: 50.00
PLS lbs: 12.04

FROM:
Granite Seed Company 1697 W. 2100 N.
Lehi, UT 84043

MIX #: 64695 184511

GRASS MIX 2006 A

% PURE		DORM OR GERM + HARD	ORIGIN
29.33	SLENDER WHEATGRASS	PRYOR 99.00 + 0.00 -	ND
18.07	GREAT BASIN WILD RYE	TRAILHEAD 98.00 + 0.00 -	MT
15.78	NEEDLE & THREAD GRASS	VNS 69.00 + 0.00 -	TZ CO
14.05	BLUEBUNCH WHEATGRASS	GOLDAR 93.00 + 0.00 -	WA
13.61	STREAMBANK WHEATGRASS	SODAR 96.00 + 0.00 -	TZ WA
4.08	SQUIRRELTAIL	VNS 89.00 + 0.00 -	TZ WA
0.33	Other Crop		
47.70	Inert Matter		
0.05	Weed Seed		

Date Tested: 11/25/2007
Restricted Weed: None
% Hard Seed: 0.00

NET WEIGHT: 50.00 LBS. BULK
42.97 LBS. PLS

GUARANTEE: Granite Seed guarantees its seed to be of promised quality and true to name as specified. Should seed prove to be other than labeled, liability shall be limited to replacement or refund of purchase price.

SHIP TO: ENCANA
RALPH SWIFT
HIGHWAY 191 MILE POST 67 WEST
9 MILES JONAH FIELD OFFICE
BOULDER, WY 82923

Seeded



Seeded



Close Up





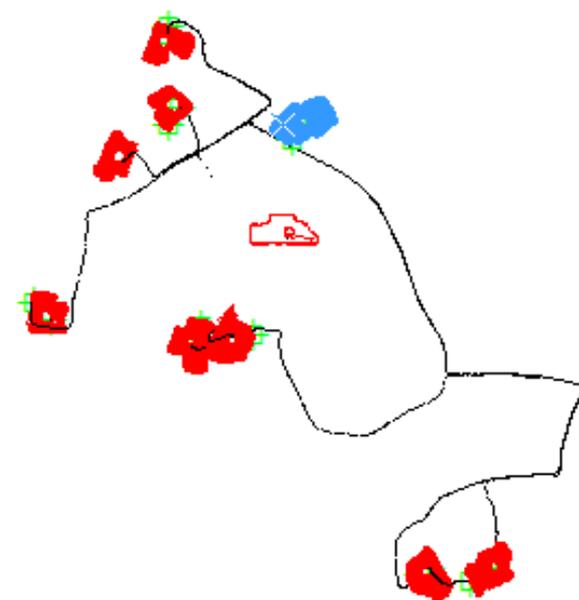






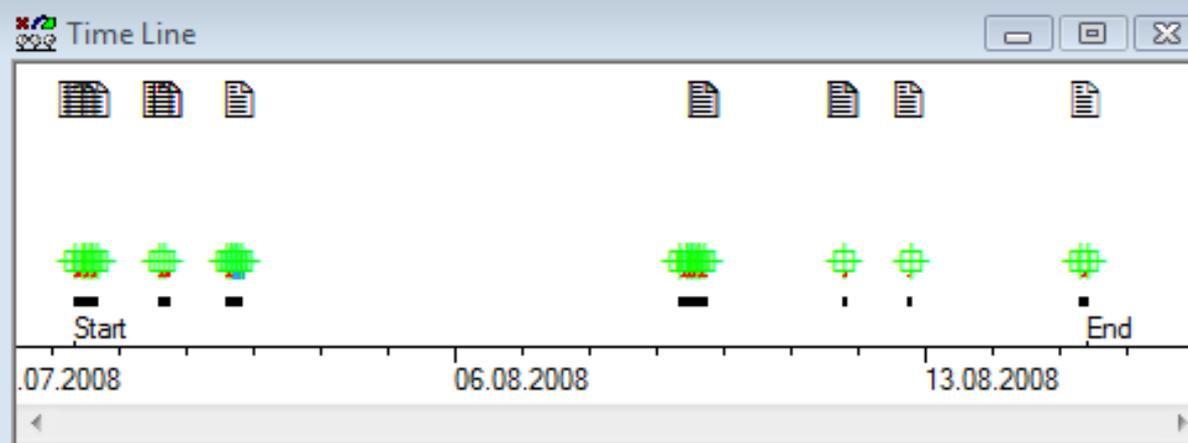
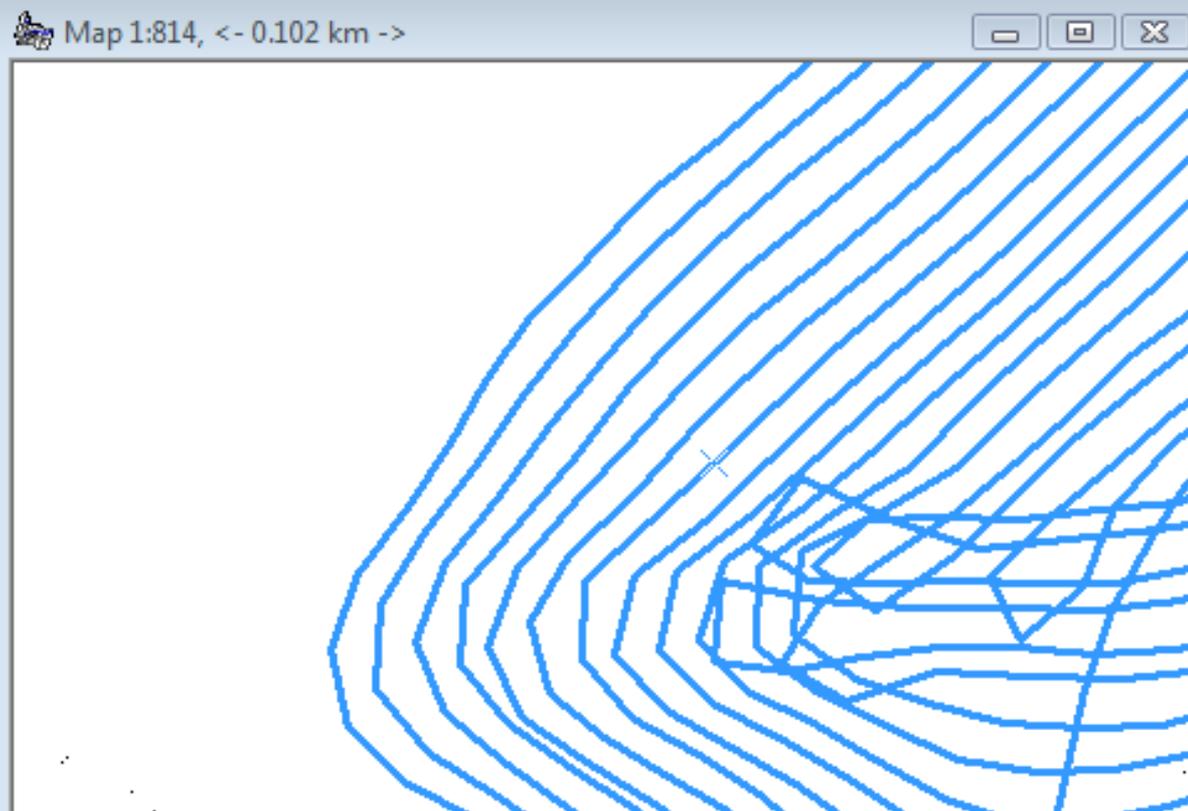
Other information gleaned from our GPS records

- Position
- Information entered in the field
- Date
- Time



Fall Irrigation Sites





Position Properties

First << < > >> Last Delete

North: 651306.386 USft
 East: 609230.659 USft
 Altitude (MSL): 7250.642 ft

Summary | 68% Precisions | DOPs

Date: 8/02/2008
 Time: 6:39:11.000 pm
 Vertex: 555 of 1117
 Horiz.Precision: 6.2 m
 Status: 3D Uncorrected

Filename: Fall Irrigation.ssf

Feature Properties

First < > Last Delete

Line feature: Seeding

Attribute Name	Value
Equipment	Rough Rider 1
Date	8/2/2008
Time	6:52:39 pm

Summary | Attributes | 68% Precisions

Line Length (2D): 7.456 km
 Line Length (3D): 7.469 km

Filename: Fall Irrigation.ssf

Status... New

Offset... <None>



Hidden Information

- Location Name SHB 47-26
- Comments Rocky
- Seed Mix Seed mix A
- Soil type Rocky
- Soil Condition Dry
- Equipment Rough Rider
- Date 8-2-2008
- Time 6:52:32
- All of the GPS Information



Something extra

- What are we sowing
 - Wheat?
 - Or
 - Tares?
-
- Lets take a look



Wheat Grasses

- Western
- Thickspike
- Slender
- Streambank
- Bluebunch
- Downy

0.05 Weed Seed

4.60 SOUTHWEST MIL V75 89.00 + 0.00 = 12 44
0.33 Other Drop Date Tested: 11/26/2007
4.79 DIFFER BALLOT Restricted Weeds: None
0.25 Weed Seed % Hard Seed: 0.00
NET WEIGHT: 58.00 LBS. BULK
42.97 LBS. PLS

Weed Seed In Mix

Noxious Weeds: None Found
Restricted: None Found

Weed Seed: 0.01
Other Crop: 0.06
Inert Matter: 47.92
Total: 100

Hard Seed: 0.00
Dormant: 0.00
Lot #: 20032-1
Bulk Lbs: 50.00
PLS lbs: 12.94

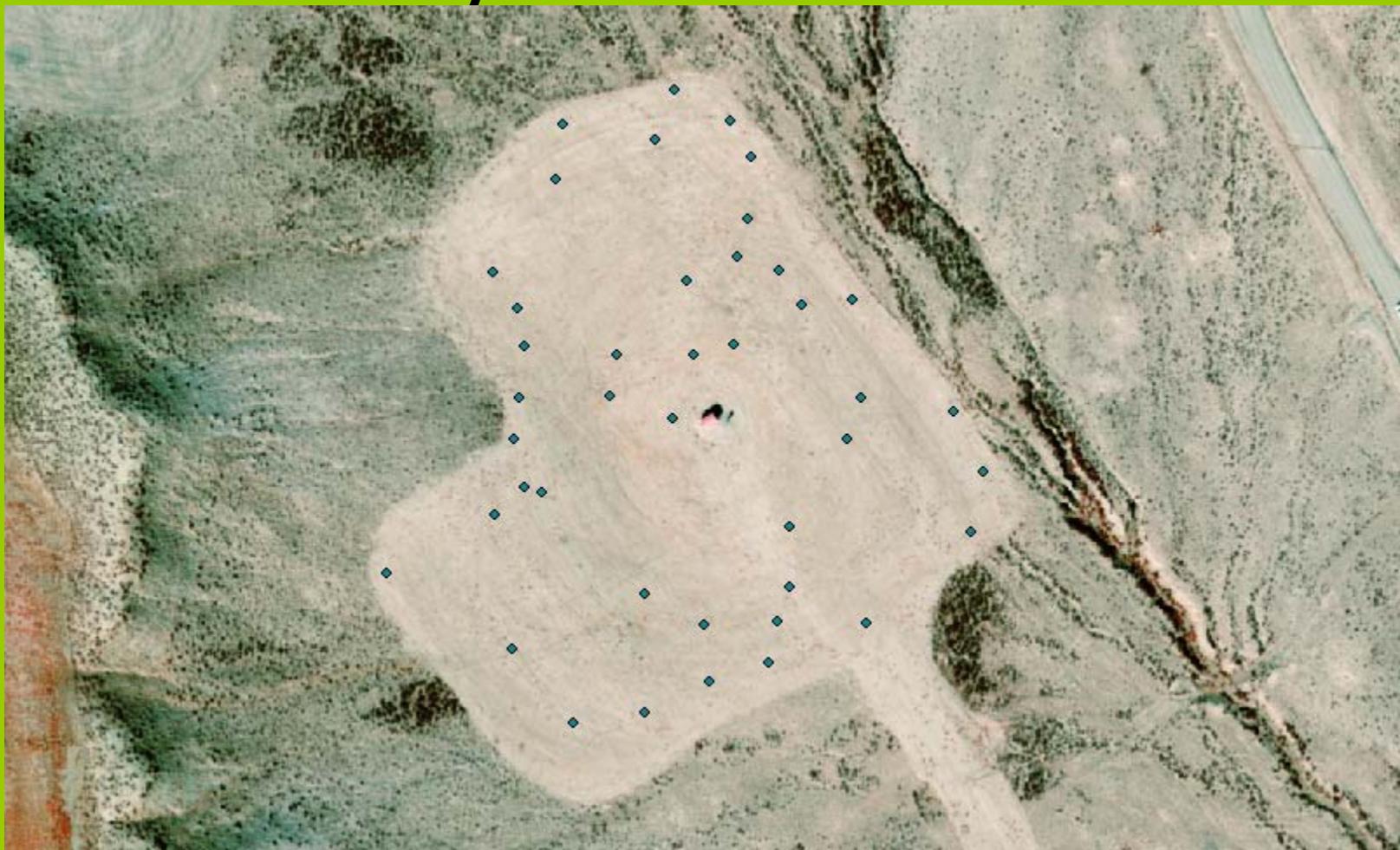


Planted In 2007





Downy Brome Year One





Disadvantages of GPS

- Cost
- Training
- The mindset that it is essential

- My GPS system has never planted a seed
- My GPS system has never repaired a planter
- Neat technology
- Just one tool

This is what its all about

THE HELP

The Help



The equipment

Rough Rider with imprinters



Rough Rider



Laird Drill



Dick, Glade, Jim, Don







ROUGH RIDER



WARNING
CAUTION
DANGER

Russo Drill





ROUGH RIDER

8010 A1



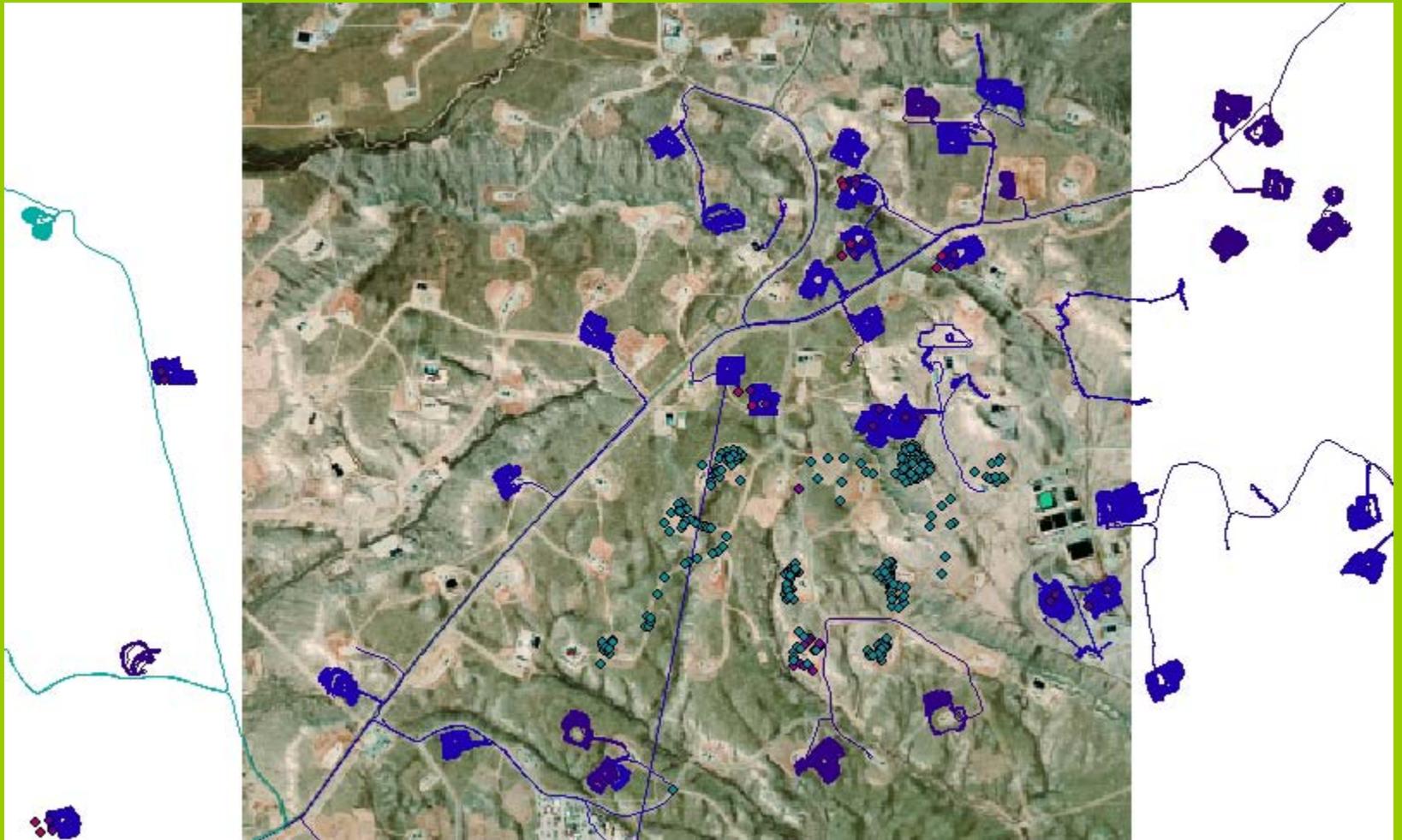
The Help

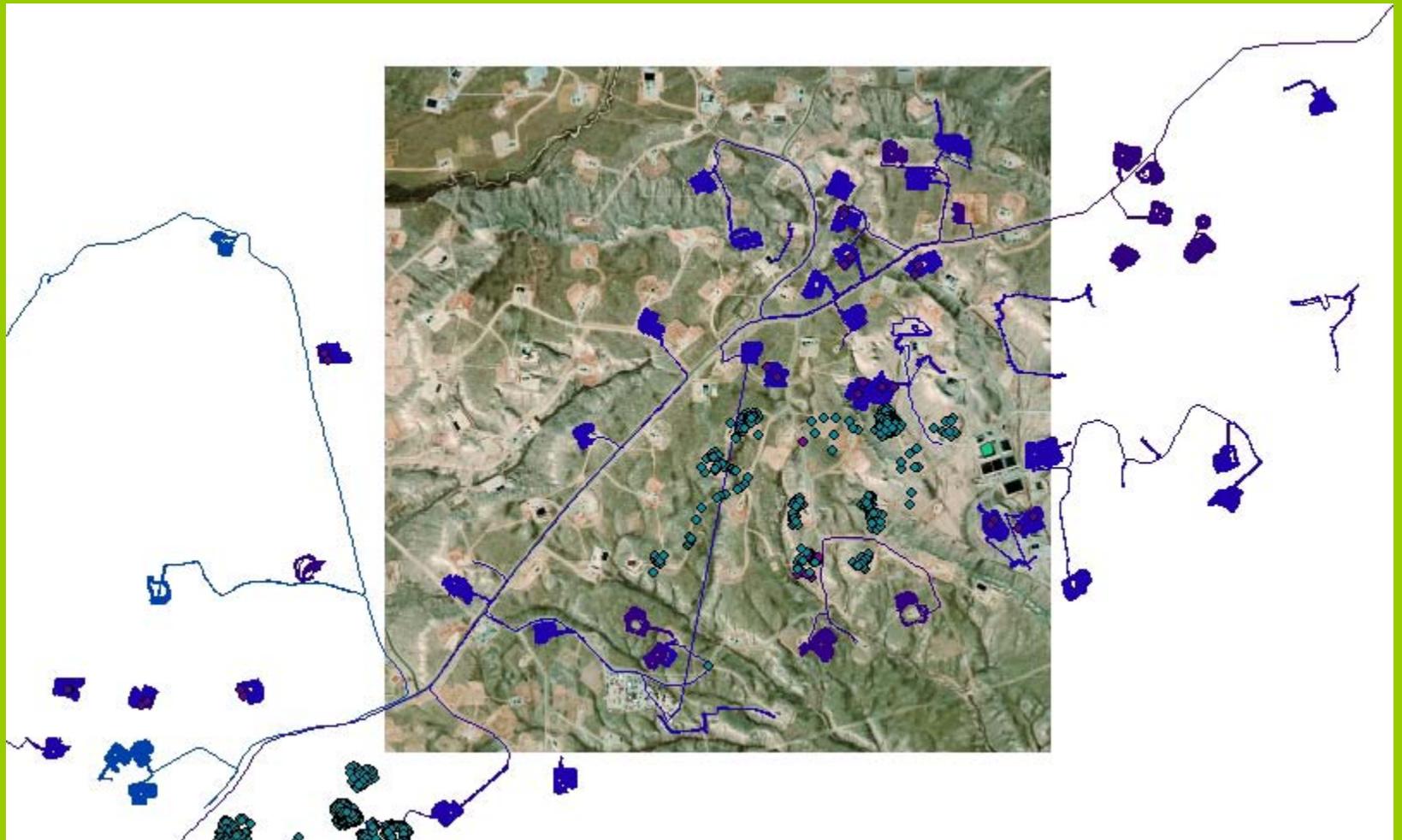


6 years

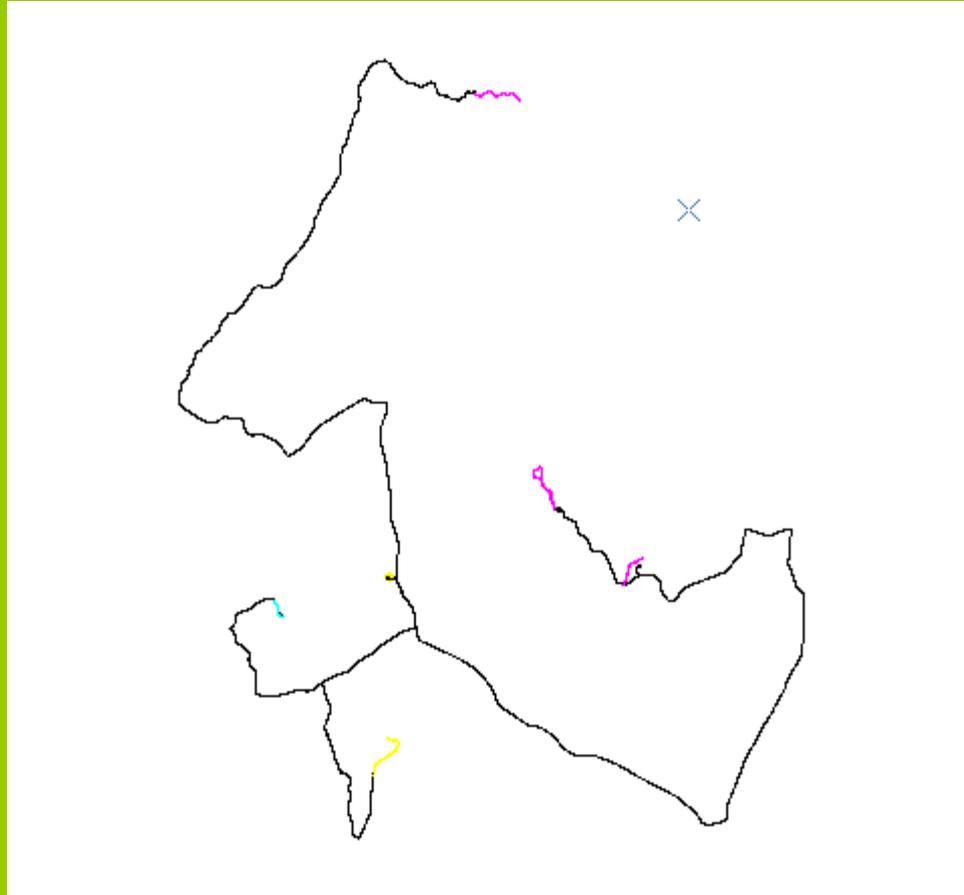


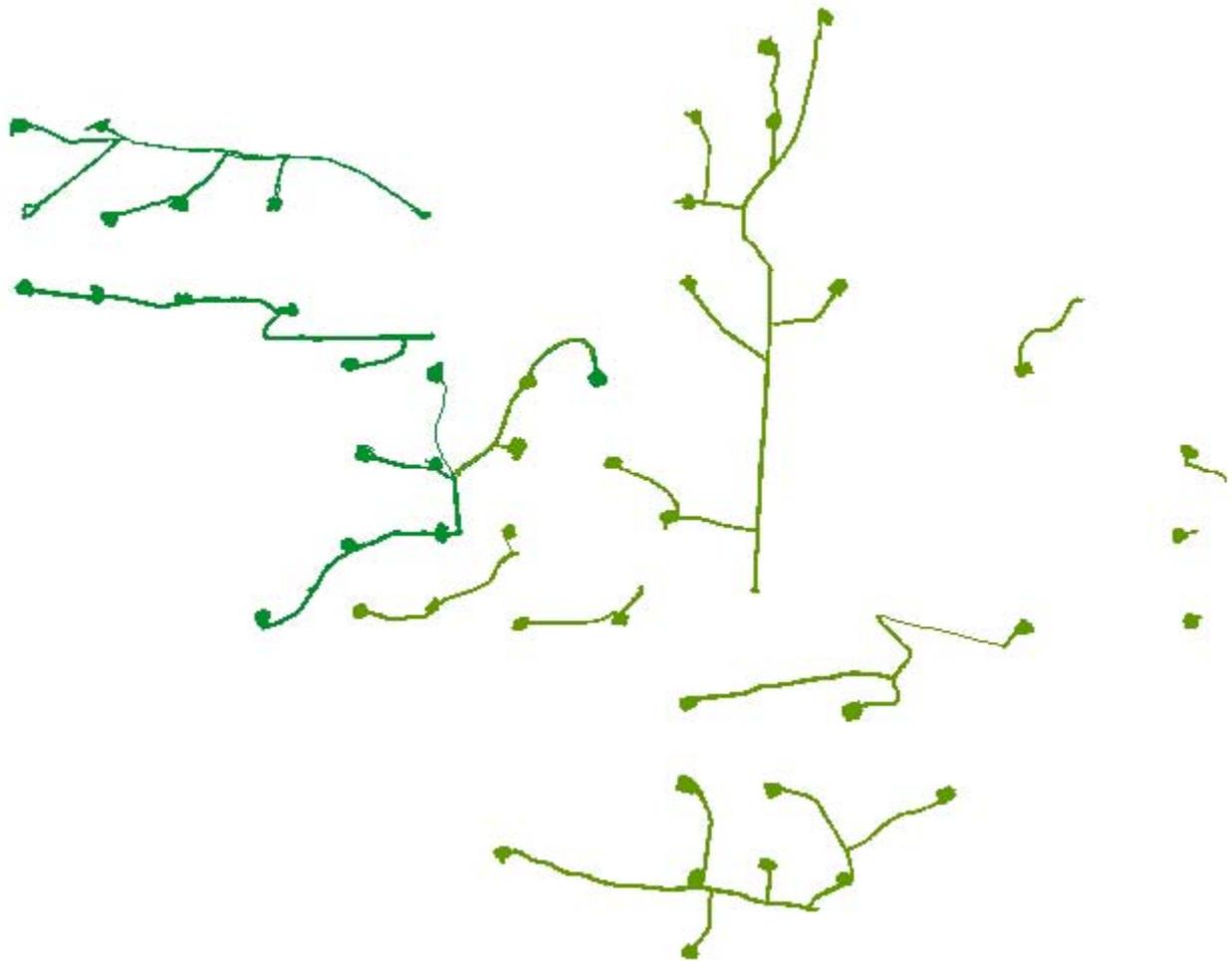




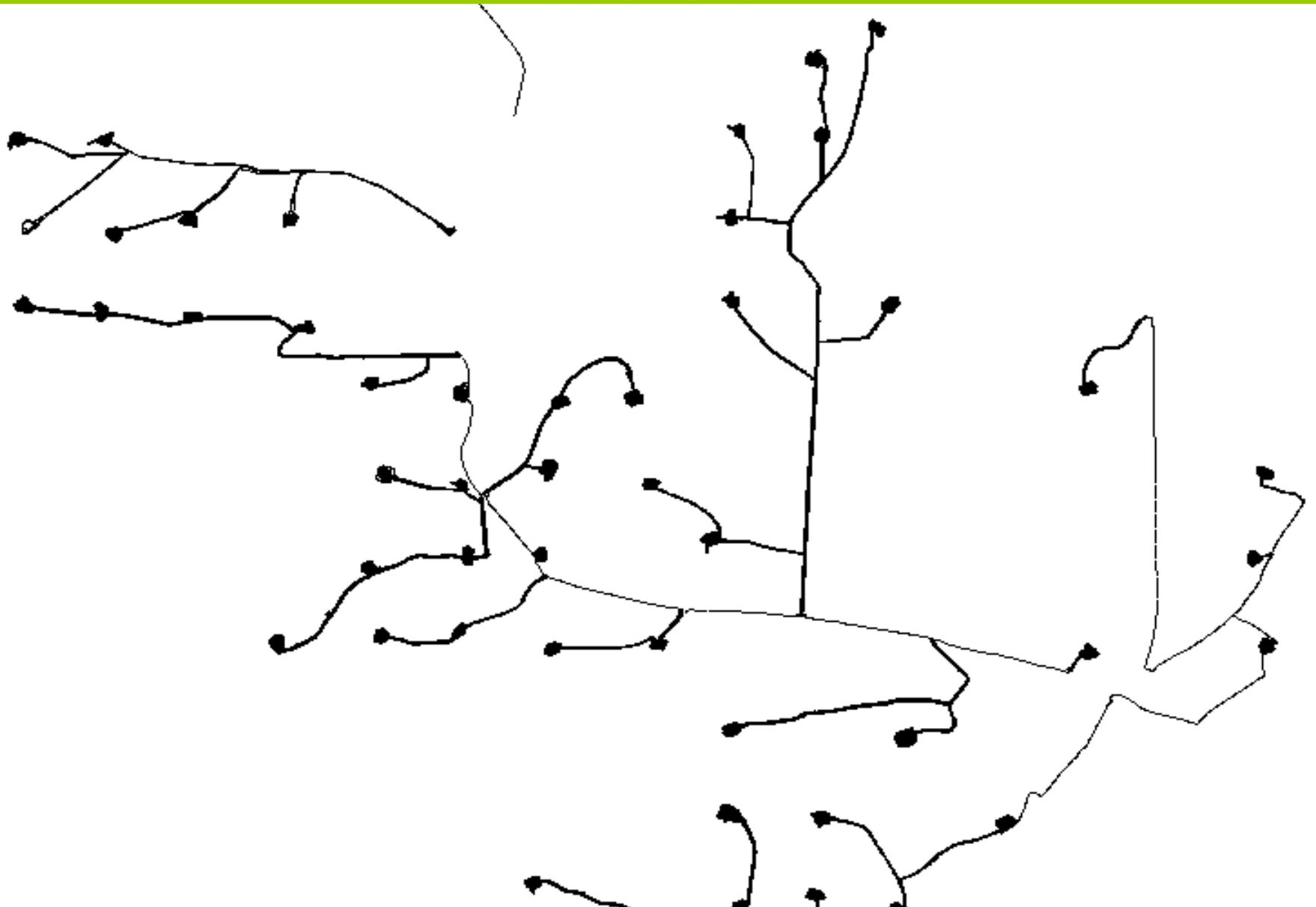


ExxonMobil Colorado





WOGC

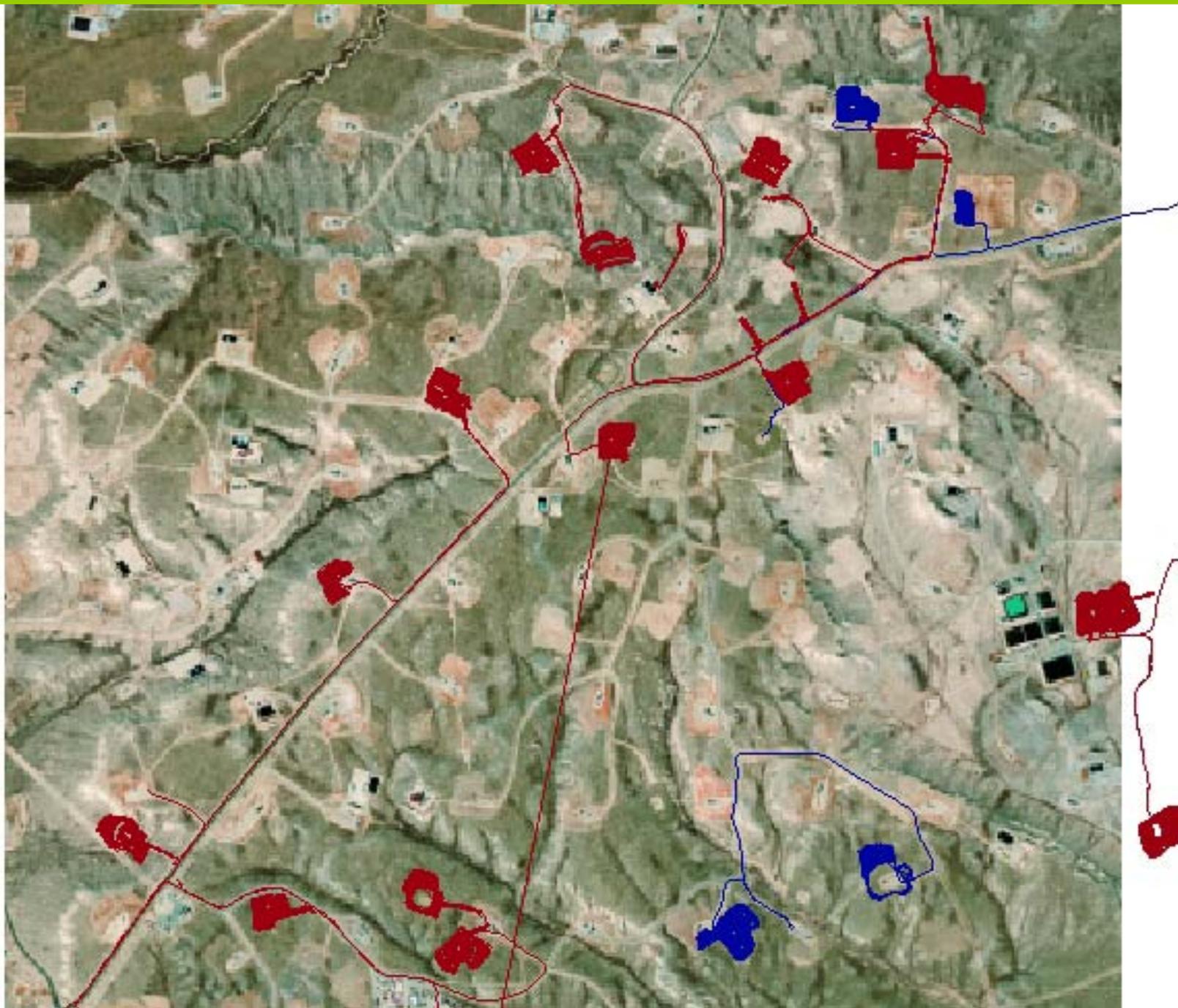








GPS Overlay

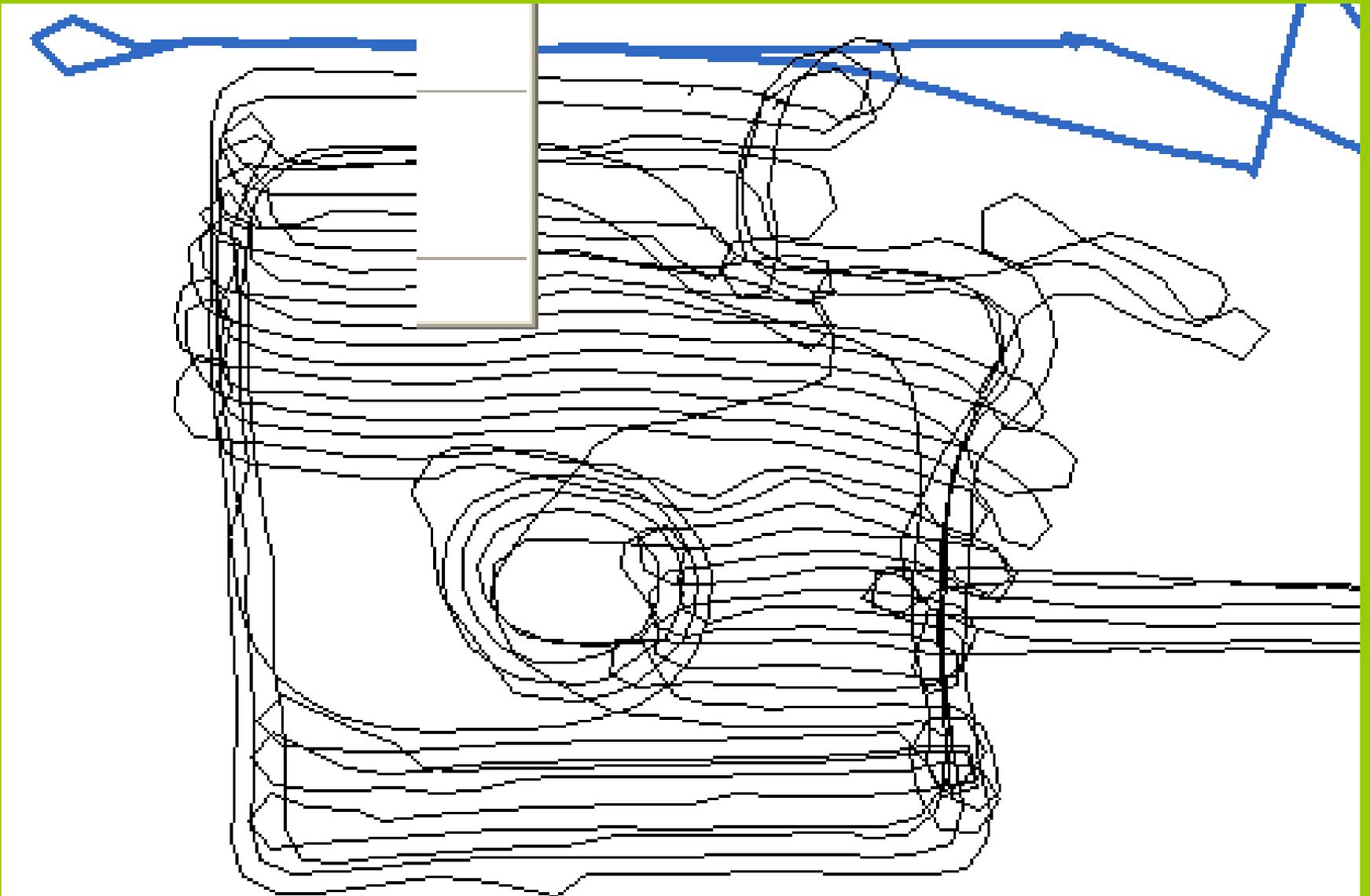


Close up

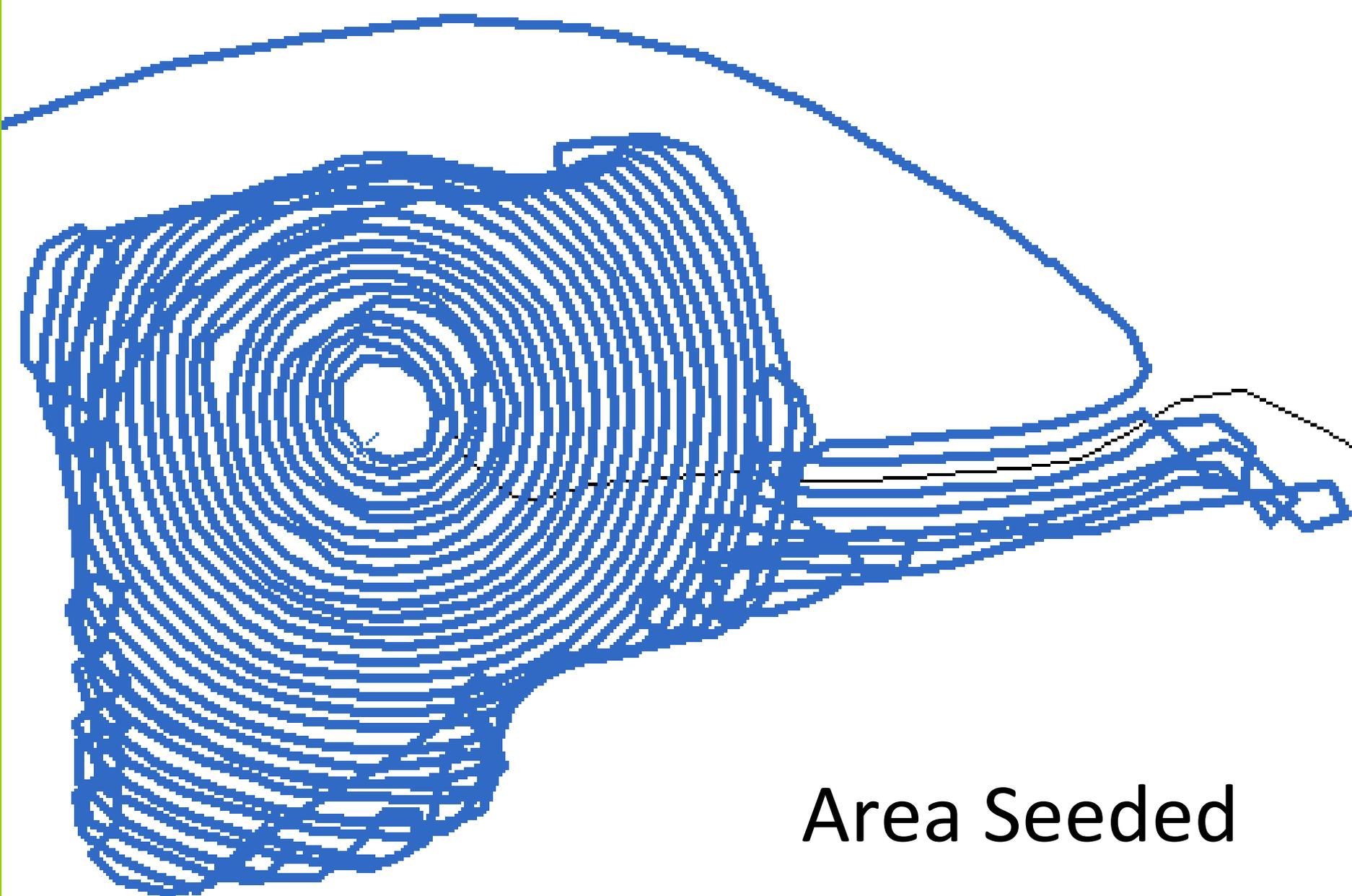


Quality control

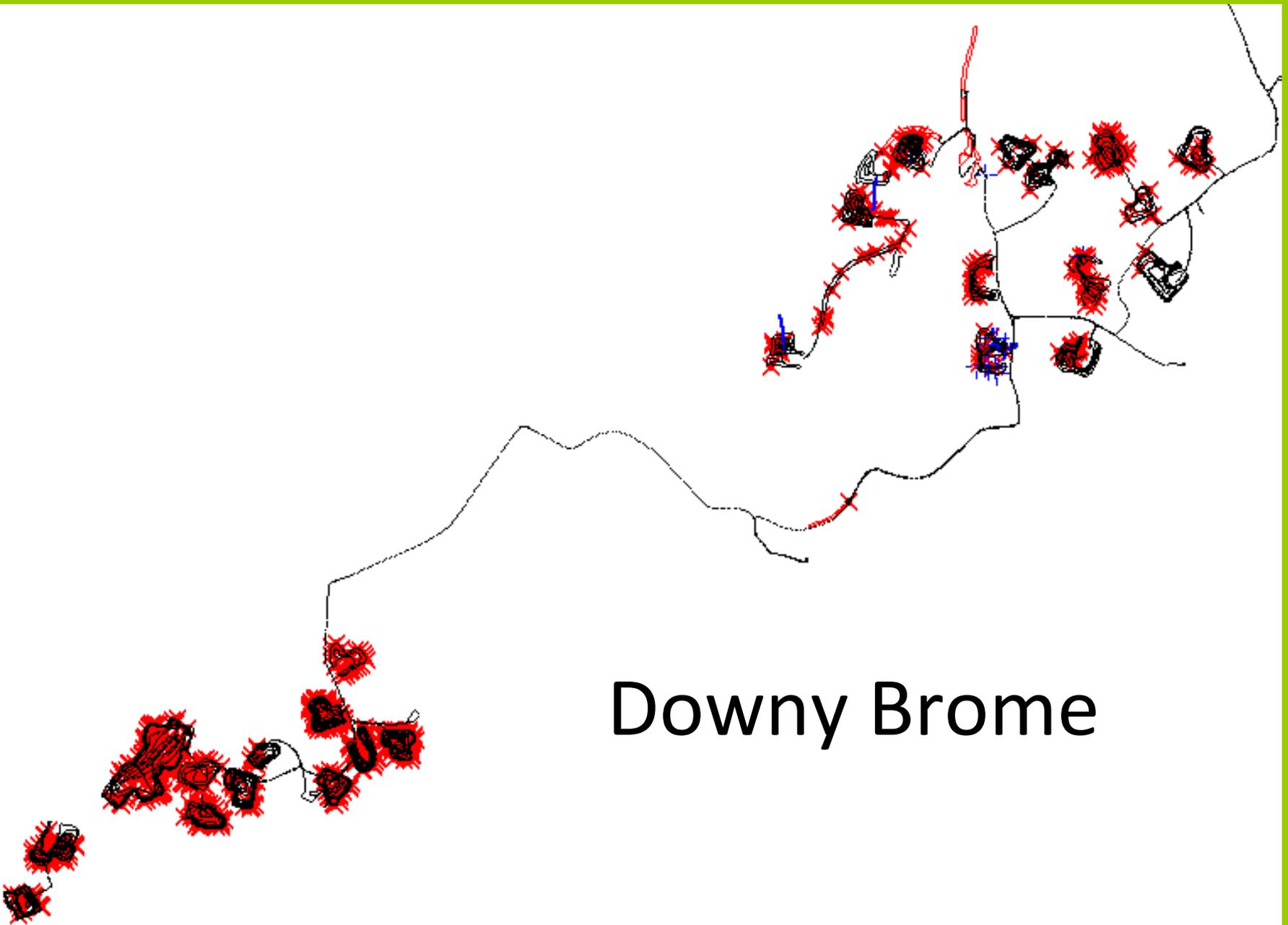
A large, intricate red scribble made of many overlapping, thin lines. The scribble is roughly rectangular but has irregular, wavy edges. The text "Quality control" is written in a black, sans-serif font, rotated 45 degrees counter-clockwise, and is positioned in the center of the scribble. The background is white, and the entire image is framed by a thick green border.



There may be a problem



Area Seeded



Downy Brome

Distribution of Downy Brome

