

SKIM PIT
Historical Releases and
Stormwater Management

#7232

1

FORM
27
Rev 6/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109



RECEIVED

JUL 31 2012

COGCC

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☐ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☐ Site/Facility Closure ☒ Other (describe): Field Inspection

OGCC Operator Number: 79905

Name of Operator: Smith Oil Properties Inc

Address: 518 17th Street Suite 260

City: Denver State: CO Zip: 80202-4125

Contact Name and Telephone:

Vicki J Shelley

No: 303-825-7405 or 303-859-7293

Fax: 303-825-0516

API Number: 087-07380

County: Morgan

Facility Name:

Facility Number: 226642

Well Name: J A Farms

Well Number: #1

Location: (QtrQtr, Sec, Twp, Rng, Meridian): NWSE Sec 20 5N 58W Latitude: 40.38272 Longitude: -103.88833

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): crude oil and produced water

Site Conditions: Is location within a sensitive area (according to Rule 901e)? ☐ Y ☒ N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): range

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan:

Potential receptors (water wells within 1/4 mi, surface waters, etc.):

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):

Extent of Impact:

How Determined:

☐

Soils

☐

Vegetation

☐

Groundwater

☐

Surface Water

REMEDIAL WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

Production water-straw waddles put in place for storm water control per John Alexson

All oil spills will be removed (by Schneider Services) and samples taken. Unused separator is being removed as is south tank at battery.

Describe how source is to be removed:

Soils to be removed and samples taken.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

Skim pit to be replaced with 100 bbl fiberglass tank.

Skim pit to be backfilled at direction of John Axelson and COGCC



Page 2
REMEDIAL WORKPLAN (Cont.)

Tracking Number:	
Name of Operator:	JUL 31 2012
OGCC Operator No:	
Received Date:	COGCC
Well Name & No:	
Facility Name & No:	

OGCC Employee:

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? ☐ Y ☐ N If yes, describe:

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

IMPLEMENTATION SCHEDULE

Date Site Investigation Began:	Date Site Investigation Completed:	Date Remediation Plan Submitted:
Remediation Start Date:	Anticipated Completion Date:	Actual Completion Date:

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Vicki J Shelley

Signed:

Title: Office Manager

Date: 7/31/2012

OGCC Approved:

Title: FOR John Axelson

Date: 08/16/2012

EPS NE Region

*** See COAs *** all
Attached
(next page)

(A) Skim Pit

(2)

FORM
27
Rev 6/99

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State of Colorado
Oil and Gas Conservation Commission



FOR OGCC USE ONLY

OGCC Employee:

☐ Spill ☐ Complaint
☐ Inspection ☐ NOAV

Tracking No:

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

SITE INVESTIGATION AND REMEDIATION WORKPLAN

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CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☐ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☐ Site/Facility Closure ☒ Other (describe): skim pit closure/remediation

OGCC Operator Number: <u>79905</u>	Contact Name and Telephone:
Name of Operator: <u>Smith Oil Properties Inc.</u>	<u>Vicki Shelley</u>
Address: <u>518 17th Street Suite 260</u>	No: <u>303-825-7405 or 303-859-7293</u>
City: <u>Denver</u> State: <u>CO</u> Zip: <u>80202-4125</u>	Fax: <u>303-825-0516</u>

API Number: <u>05-087-07380</u>	County: <u>Morgan</u>
Facility Name: _____	Facility Number: <u>226642</u>
Well Name: <u>J A Farms</u>	Well Number: <u>#1</u>
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>NWSE Sec 20 5N 58W</u> Latitude: <u>40.38272</u> Longitude: <u>-103.88833</u>	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): crude oil/produced water

Site Conditions: Is location within a sensitive area (according to Rule 901e)? ☐ Y ☒ N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): range

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Ascalon Sandy Loam 3-5% slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): None within 1/4 mile

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input checked="" type="checkbox"/> Soils	<u>former skim pit</u>	<u>visual/sampling</u>
<input type="checkbox"/> Vegetation	_____	_____
<input type="checkbox"/> Groundwater	_____	_____
<input type="checkbox"/> Surface Water	_____	_____

REMEDIALTION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

Dug out pit bottom, confirmation samples taken for analysis - waiting on results.

Describe how source is to be removed:

See above procedure.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

Land farm impacted soils on lease. Skim pit will be replaced with 100bbl fiberglass tank.

Larry Robbins



REMEDIATION WORKPLAN (Cont.)

Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

N/A

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

Dig out skim pit, sample soil, backfill excavated skim pit with clean fill upon satisfactory soil analysis.
Land farm impacted soils on lease.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? ☐ Y ☒ N If yes, describe:

Confirmation samples to demonstrate completion of remediation will be submitted prior to pit closure.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

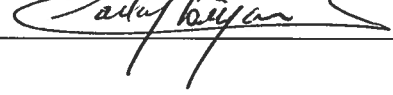
Land farm impacted soils on lease.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 6/26/2012	Date Site Investigation Completed: 8/6/2012	Date Remediation Plan Submitted: 7/31/2012
Remediation Start Date: _____	Anticipated Completion Date: 9/15/2012	Actual Completion Date: _____

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Larry Robbins Signed: Larry Robbins
Title: Consultant Date: 8/24/2012

OGCC Approved:  Title: FOR JOHN AXELSON Date: 08/28/2012
EPS NE Region

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State of Colorado Oil and Gas Conservation Commission



FOR OGCC USE ONLY

OGCC Employee:

☐ Spill ☐ Complaint

☐ Inspection ☐ NOAV

Tracking No:

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CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☐ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☐ Site/Facility Closure ☒ Other (describe): historical spill reclamation/stormwater mgmt

OGCC Operator Number: 79905	Contact Name and Telephone: Vicki Shelley
Name of Operator: Smith Oil Properties Inc	No: 303-825-7405 or 303-859-7293
Address: 518 17th Street Suite 260	Fax: 303-825-0516
City: Denver State: CO Zip: 80202-4125	
API Number: 05-087-07380	County: Morgan
Facility Name:	Facility Number: 226642
Well Name: J A Farms	Well Number: #1
Location: (QtrQtr, Sec, Twp, Rng, Meridian): NWSE Sec 20 5N 58W Latitude: 40.38272 Longitude: -103.88833	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc):

Site Conditions: Is location within a sensitive area (according to Rule 901e)? ☐ Y ☒ N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Range Land

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Ascalon sandy loam 3-5% slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): none within 1/4 mile

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input type="checkbox"/> Soils		
<input checked="" type="checkbox"/> Vegetation	50' x 4' area southwest of pumpjack	visual inspection
<input type="checkbox"/> Groundwater		
<input type="checkbox"/> Surface Water		

REMEDIALTION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

BMP's (straw waddles) put in place to prevent further erosion due to stormwater drainage.

Describe how source is to be removed:

N/A

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

The affected area will be disc or rototilled, soil amendements added as required and reseeded with native vegetation.

Larry Robbins



REMEDIATION WORKPLAN (Cont.)

Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

N/A

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

The affected area will be disc or rototilled, soil amendments added as required and reseeded with native vegetation.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? ☐ Y ☒ N If yes, describe:

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

N/A

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 6/26/2012 Date Site Investigation Completed: _____ Date Remediation Plan Submitted: 7/31/2012
Remediation Start Date: _____ Anticipated Completion Date: 9/15/2012 Actual Completion Date: _____

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Larry Robbins Signed: Larry Robbins
Title: Consultant Date: 8/24/2012

OGCC Approved: Title: FOR JOHN AXELSON Date: 08/28/2012
EPS NE Region

Conditions of Approval

Form 27 Work Plan

J A Farms #1, Location ID # 313873

Smith Oil Properties, Inc.

Smith Oil Properties, Inc. (Smith Oil) submitted a Form 27 work plan for 1) the remediation and reclamation of several oil and produced water releases, and 2) for the closure of a skim pit that will be replaced with a 100 bbl fiberglass tank. Form 27 was approved with the following Conditions of Approval (COAs):

1) Oil and Water Spills

- a. Impacted soil determination. Rule 909 b. (2). Sampling and analysis of soil and groundwater (if applicable) shall be conducted in accordance with Rule 910 to determine the horizontal and vertical extent of any contamination in excess of the concentrations in Table 910-1.
- b. Remediation. Rule 909 b. (5). "Remediation shall be performed in a manner to mitigate, remove, or reduce contamination that exceeds the concentrations in Table 910-1." If separator and tanks will be removed, ensure soil around and beneath the equipment are evaluated and if necessary remediated (i.e. remove impacted soil).
- c. Reclamation. Rule 909 b. (6). "Remediation sites shall be reclaimed in accordance with the 1000 Series rules for reclamation." Reclamation of the salt kill will include stormwater controls as specified in Rules 1002 f. See Rules 1003 e. Interim Reclamation for instruction regarding restoration and revegetation.

2) Skim Pit Closure

Please refer to Rules 905. Closure of Pits, for COGCC rules regarding the closure of pits, and particularly the disposal of pit material and liner.

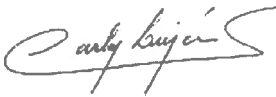
Please refer to Rules 909. Site Investigation, Remediation, and Closure, for COGCC rules regarding soil sampling, and remediation of impacted soil beneath the liner, as well as reclamation.

- a. After removing the liner, discrete samples at the bottom of the pit should be collected and sent for analysis to an authorized laboratory. Samples (one at the minimum) should be taken where there is suspicion of impact or at the lowest point of the pit. Minimum analysis required are TPH, BTEX, inorganics (EC, SAR, pH), and metals. PAH analysis is not required at this time (Acenaphthene, and others). See COGCC Rules 900, Table 910-1.
- b. If the analytical results are below Table 910-1, the pit will be backfilled with stockpiled or natural soil. If analytical results are above Table 910-1 (i.e. TPH > 500 mg/kg) the bottom of the pit must be remediated before any backfilling takes place. After remediation (i.e. excavation and disposal of impacted soil) confirmation samples must be taken to ensure Table 910-1 values are met.

- c. Notify COGCC Environmental Protection Specialist (EPS) of analytical results and remediation progress, to get his approval BEFORE backfilling the pit.
- d. Reclamation. Rule 909 b. (6). "Remediation sites shall be reclaimed in accordance with the 1000 Series rules for reclamation." See Rules 1003 e. Interim Reclamation for instruction regarding restoration and revegetation.

3) Notice of Completion

When remediation and reclamation are completed, the operator will submit a Notice of Completion brief report describing the activities completed. The confirmation samples analytical results and a figure showing facilities, sampling locations, and areas remediated will be included with the report. At that point the project will be closed as long as the NOC report provides information sufficient to demonstrate compliance with the work plan and COAs.

A handwritten signature in black ink, appearing to read "Carlos Luján", with a stylized flourish at the end.

Carlos Luján, Ph.D.

For John Axelson, EPS NE Region

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JUL 31 2012

COGCC

Smith oil Properties

7/31/12

RE: JA Farms Clean up

Tank Battery Placards & Signs are on order from WB Supply (To be put on at arrival)

Trash: Empty 55 gal Drum - Removed.

Un used Equipment: Tubing belts HAVE been Re-shred: will be Removed.

SPINS Pump JACK AJAX Leaks will be Lube oil: Repaired. Soil Removed / John Axelsson

Crude: Tank: Repaired Leaks - Soil Removed. John. Axelsson - Russ

Crude: Pump JACK Soil Removed - John Axelsson contacted by Russ: Shenelher Services.

Produced Water: Wellhead 50' x 4' Area will have straw waddles Put in Place For Storm Water Control. Per John Axelsson - Russ

Crude oil : Pump Jack - Crude oil behind shed /
dag out - Soil sample to be Taken Per JOI
Axelson - Russ.

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COGCC

Fencing

Pump Jack

Pit

Separator

Repair work is being
Done

RECEIVED

JUL 31 2012

COGCC

Deadman : Markers will be placed at
Deadmen.

Flowline : To be left not capped until
permanent abandonment.

Pump JACK : Addressed Repairs, Leaks & unused
Equipment Removed. Soils Remediated

Equip : Containment Tub For Chemical drum
To be Put in Place.

Separator : Repaired
2 Phase Separator Removed.

Berm : Installed at Treater.

Tank : with leak will be Removed.

SKim Pit : Cleaned up & Replace it with 100
Fiberglass Tank.

1 Tanks 11/11/12

J.A. Farms HI

8-6-12

J.A. Farms HI

8-6-12

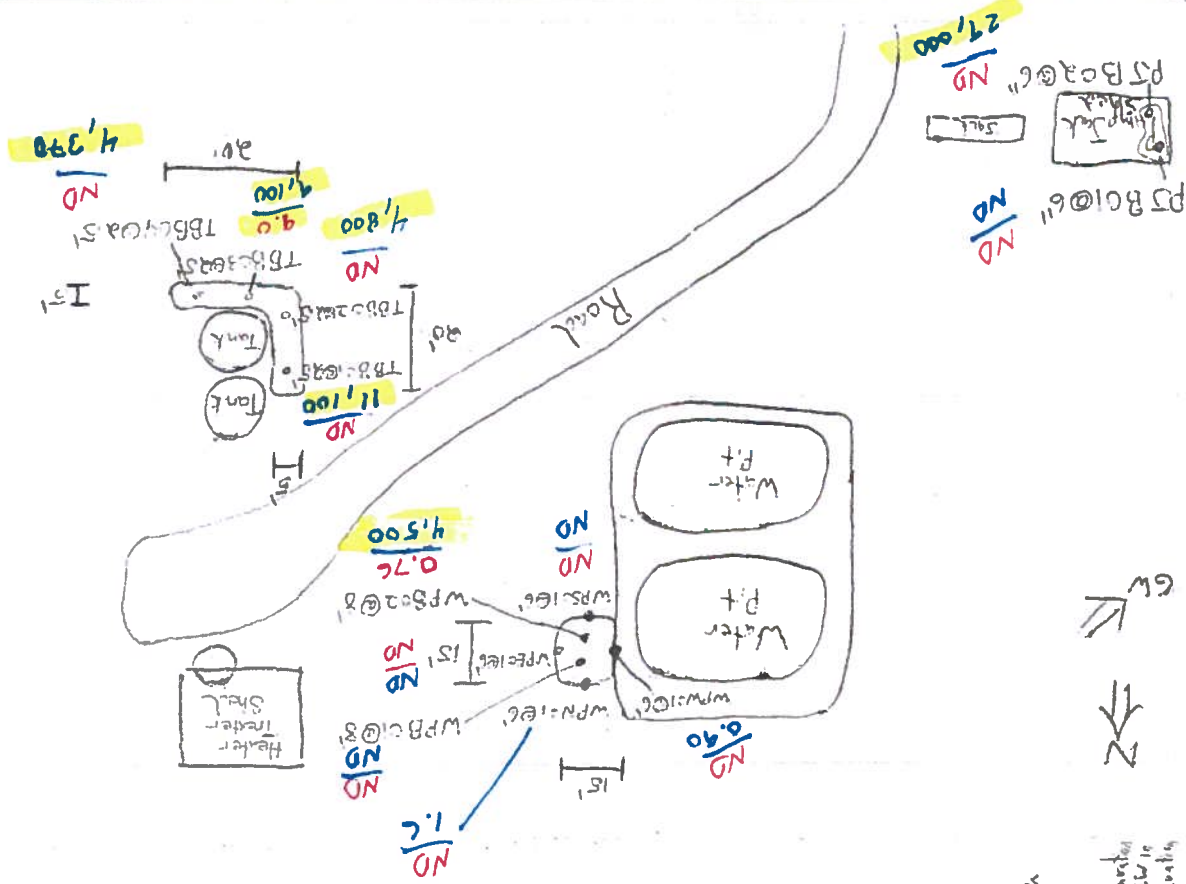
1050 JE onsite for soil sampling
- Review HASP

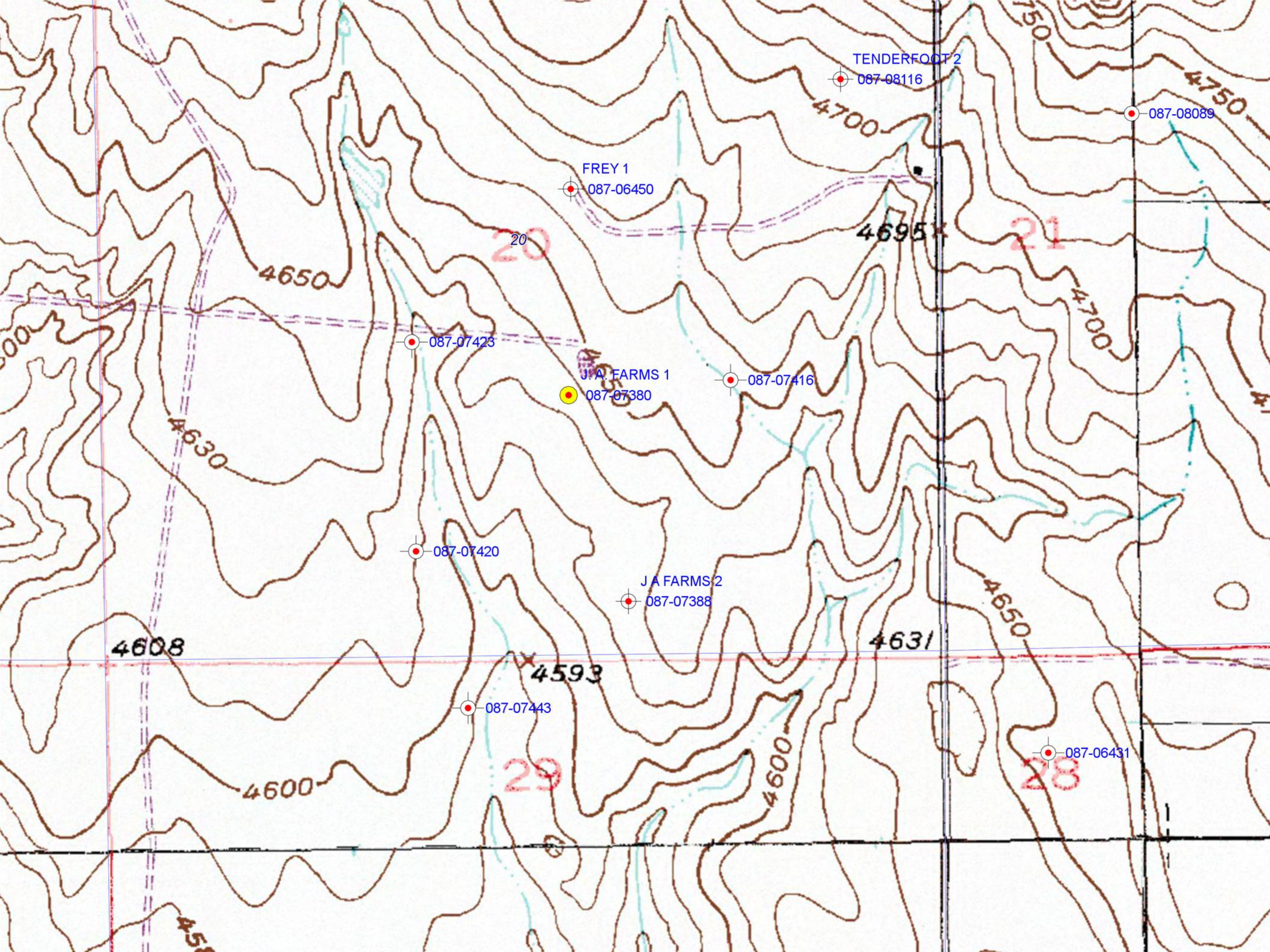
ID	Time	Type	Stain	odor
WPB0106'	1140	Silty Sand	No	No
WPB0106'	1145	↗	No	No
WPB0106'	1135		Yes	Yes
WPB0106'	1150	↘	No	No
WPB0106'	1155		No	No
WPB0208'	1200		Yes	Yes
PSB0106'	1235	Silty Sand	Yes	No
PSB0206'	1240	Gravelly Sand	Yes	Yes
TB801025	1300	↗	Yes	Yes
TB802025	1305		Yes	Yes
TB803025	1310		Yes	Yes
TB804025	1315		Yes	Yes

- Water Pit excavation 15' x 15' x 8', no water in excavation

- Pump Jack excavation 4' NS x 2' EW x 6", no water in excavation

- Tank Battery excavation 40' x 41' x 25' in L shape, excavating 1330 off site





TENDERFOOT 2

087-08116

087-08089

FREY 1

087-06450

4695

20

21

087-07423

J.A. FARMS 1

087-07380

087-07416

087-07420

J.A. FARMS 2

087-07388

4608

4593

4631

087-07443

087-06431

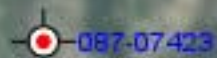
29

28

4600

4600

20



087-07423

J A FARMS 2-A



J. A. FARMS 1



087-07380



087-07416

J A FARMS 3