Farmar 54 Battery

Latitude 31.242700, Longitude -100.970433
Irion County, Texas

January 31, 2022

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Part 1: Plan Administration

1.1 Management Approval and Designated Person (40 CFR 112.7)

Triple Crown Resources, LLC is committed to preventing discharges of oil to navigable waters and the environment, and to maintaining the highest standards for spill prevention, control, and countermeasures through the implementation and regular review and amendment to the Plan. This SPCC Plan has the full approval of the company. The necessary resources to implement the measures described in this Plan have been committed by the company.

The Facility Manager is the Designated Person Accountable for Oil Spill Prevention at the facilities and has the authority to commit the necessary resources to implement this Plan.

Authorized Facility Manager (Representative):

Signature: _____
Name: Andrew Wlazlo
Title: Production Engineering Manager

1.2 Professional Engineer Certification (40 CFR 112.3(d))

The undersigned Registered Professional Engineer is familiar with the requirements of Part 112 of Title 40 of the *Code of Federal Regulations* (40 CFR part 112). The facility has been visited and examined by the undersigned Registered Professional Engineer or by a qualified agent representing the undersigned Registered Professional Engineer. The undersigned Registered Professional Engineer attests that this Spill Prevention, Control, and Countermeasure Plan has been prepared in accordance with good engineering practice, including consideration of applicable industry standards and the requirements of 40 CFR part 112; that procedures for required inspections and testing have been established; and that this Plan is adequate for the facility. [40 CFR 112.3(d)]

This certification in no way relieves the owner or operator of the facility of his/her duty to prepare and fully implement this SPCC Plan in accordance with the requirements of 40 CFR part 112. This Plan is valid only to the extent that the facility owner or operator maintains, tests, and inspects equipment, containment, and other devices as prescribed in this Plan.

Location: **Farmar 54 Battery**

Date : January 31, 2022

L. Peter Galusky, Jr., P.E.
Name of the Registered Professional Engineer

Signature of Registered Professional Engineer

Reg. No : 94366
State : Texas

Table 1-1 : Plan Review Log

By	Date	Activity	PE Certification required?	Comments

* Previous PE certifications of this Plan are summarized below.

Date	Scope	PE Name	Licensing State	Registration Number

Part 2: General Facility Information

40 CFR 112.7(a)(3)

Name of facility :	**Farmar 54 Battery**
Location :	Latitude 31.242700, Longitude -100.970433 Irion County, Texas
Type :	Onshore Oil and Gas Production Facilities
Owner/Operator :	Andrew Wlazlo Production Engineering Manager (832) 350-1085

Person(s) accountable for spill prevention at the field office :

Name and Title :	Andrew Wlazlo, Production Engineering Manager (832) 350-1085

2.1 Facility Description (40 CFR 112.7(a)(3), 112.9(c)(1))

2.1.1 Oil Storage

The Farmar 54 Battery consists of three (1 - 500 bbl, 2 - 1000 bbl) tanks utilized for the storage of crude oil and four (500 bbl) water tank. Tank Battery installation is safe-fail engineered to prevent spills. This is accomplished through utilization of overflow equalizing lines between tanks and adequate tank capacity management. The material and construction of the tanks containing oil are compatible with the material stored and the conditions of storage. The lease also contains one heater treater and seven separators.

Table 2-1 : Containers

Storage Unit	Storage Unit Amount (bbl)	Type of Storage Unit	Contents of Storage Unit	Description	Above or Underground
Farmar 54 Battery					
T-1	1,000	Tank	Produced Oil	Steel Tank	Aboveground
T-2	1,000	Tank	Produced Oil	Steel Tank	Aboveground
T-3	500	Tank	Produced Oil	Steel Tank	Aboveground
T-4	500	Tank	Produced Water	Fiberglass	Aboveground
T-5	500	Tank	Produced Water	Fiberglass	Aboveground
T-6	500	Tank	Produced Water	Fiberglass	Aboveground
T-7	500	Tank	Produced Water	Fiberglass	Aboveground
T-8	13	Tank	Engine Oil		
HT	179	Heater Treater	Produced Oil & Water	8' x 20'	
S-1	750	Gun Barrel	Produced Oil & Water	15.5' x 21'	
S-2	34	Separator	Produced Oil & Water	4' x 15'	
S-3	34	Separator	Produced Oil & Water	4' x 15'	
S-4	34	Separator	Produced Oil & Water	4' x 15'	
S-5	9	Separator	Produced Oil & Water	30" x 10'	
S-6	9	Separator	Produced Oil & Water	30" x 10'	
S-7	7.56	Separator	Produced Oil & Water	3' x 6'	
Total Storage :	**5569 bbls**				

2.2 Facility Layout Diagram (40 CFR 112.7(a)(3))

The Site Plan, included in Appendix F presents a layout of the facility with the location of the storage units. The diagram also shows the direction of surface water runoff. As required under 40 CFR 112.7(a)(3), the facility diagrams indicates the location and content of ASTs, transfer stations and connecting piping. This facility does not contain stormwater drains.

Part 3: Discharge Prevention - General SPCC Provisions

3.1 Evaluation of Discharge Potential

3.1.1 Distance to Navigable Waters and Adjoining Shorelines and Flow Paths

The Farmar 54 Battery is located at Latitude 31.242700, Longitude -100.970433 Irion County, Texas. The facility diagram included in Appendix F indicates the general direction of drainage and location of the oil extraction, production, storage areas and flowline(s) with the bermed area(s).

The Farmar 54 Battery is situated on relatively level ground that slopes in a general south western direction. In the unlikely event of a discharge from the facility during a 25 year-24 hour rainfall event, oil would follow the natural topography of the site and flow approximately 0.10 miles to the Seep Draw. A series of topographic maps are located within Appendix F. Distance to navigable waterways and direction of flow were determined through the use of these maps.

3.2 Potential Discharge Volumes and Direction of Flow (40 CFR 112.7(b))

Table 3-1 presents expected volume, discharge rate, general direction of flow in the event of equipment failure, and means of secondary containment for different parts of the field office where oil is stored, used, or handled.

Table 3-1 : Potential Discharge Volumes and Direction of Flow

Potential Event	Maximum Volume Released (bbls)	Maximum Discharge Rate	Direction of Flow	Secondary Containment
Bulk Storage Area (Aboveground Storage Tank)				
Failure of aboveground tank (collapse or puncture below product level)	1,000	Gradual to instantaneous	Contained on Site	Yes
Tank overfill	Variable	Gradual	Contained on Site	Yes
Produced Water				
Failure of aboveground tank (collapse or puncture below product level)	500	Gradual to instantaneous	Contained on Site	Yes
Tank overfill	Variable	Gradual	Contained on Site	Yes
Heater Treater/Separator/Gun Barrel				
Rupture	Variable	Variable	Contained on Site	Yes
Flow Lines				
Rupture	Variable	Variable	Refer to Appendix F	Refer to Appendix H

3.3 Discharge History

The Farmar 54 Battery has not experienced a reportable spill during the preceding twelve month period.

In the event such spills do occur a formal record is prepared that includes the date of the spill, the volume and nature of the material which was released and the circumstances surrounding the release, corrective action taken, and steps taken to prevent the recurrence of similar events.

Table 3-2 summarizes the facility's discharge history.

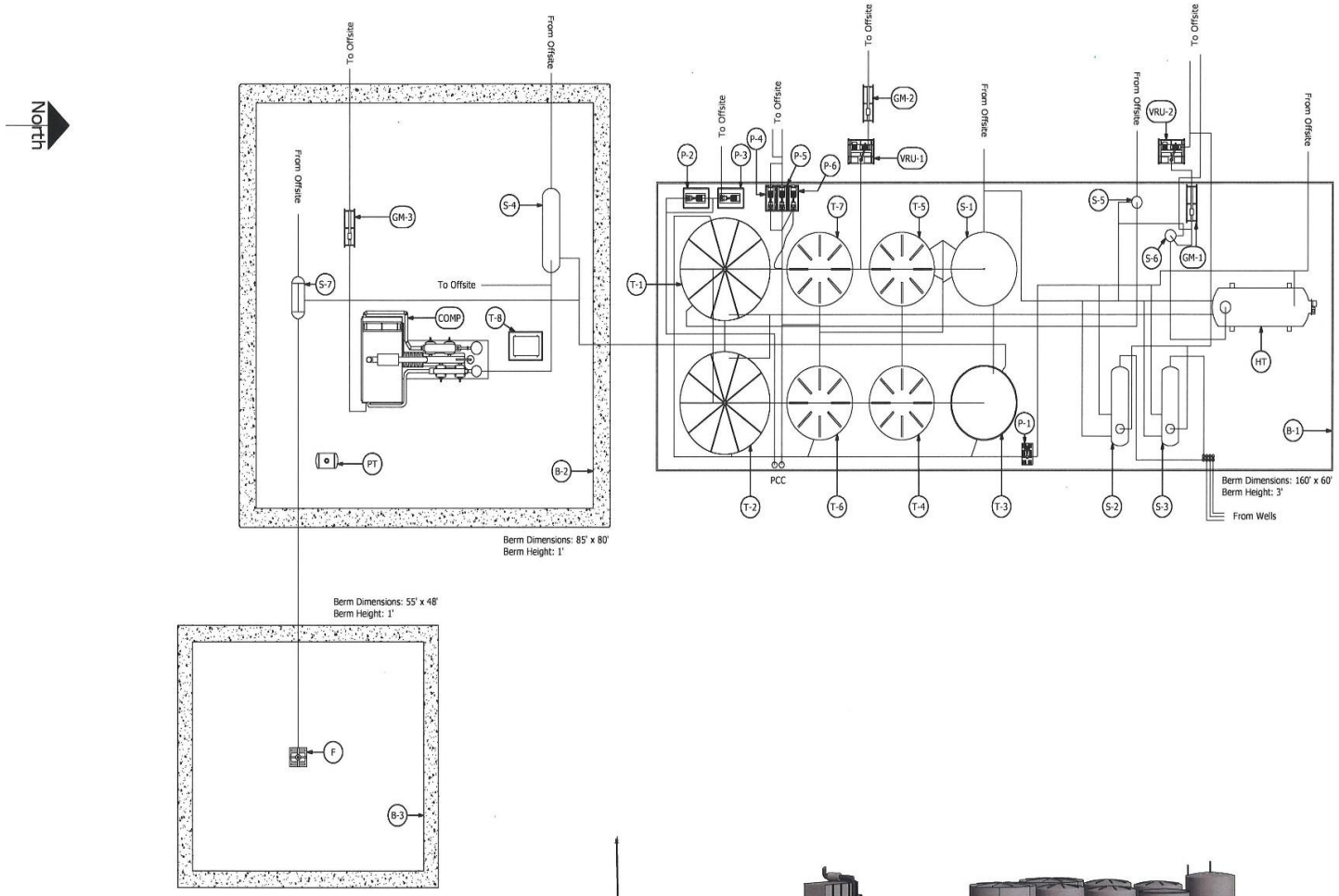
Table 3-2 : Oil Discharge History
Farmar 54 Battery

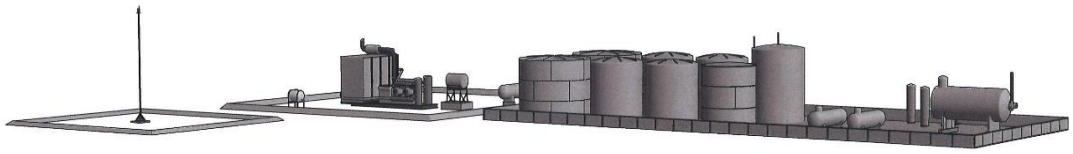
Description of Discharge	Corrective Actions Taken	Plan for Preventing Recurrence

APPENDIX F

Site Plan and Topographic Maps

(See following pages.)





EQUIPMENT LIST		EQUIPMENT LIST	
ITEM	DESCRIPTION	ITEM	DESCRIPTION
T-1	21.5' x 16' 1000 bbl Steel Tan Oil Tank	COMP	Recip Compressor
T-2	21.5' x 16' 1000 bbl Steel Tan Oil Tank	P-1	Circ Pump
T-3	15.5' x 16' 500 bbl Steel Tan Oil Tank	P-2	Cent Pump
T-4	15.5' x 16' 500 bbl Fiberglass Tan Produced H2O Tank	P-3	Cent Pump
T-5	15.5' x 16' 500 bbl Fiberglass Tan Produced H2O Tank	P-4	Cent Pump
T-6	15.5' x 16' 500 bbl Fiberglass Tan Produced H2O Tank	P-5	Cent Pump
T-7	15.5' x 16' 500 bbl Fiberglass Tan Produced H2O Tank	P-6	Cent Pump
T-8	550 Gallon Engine Oil Tank in Containment	GM-1	Gas Meter
PT	220 Gallon Unknown Poly Tank in Containment	GM-2	Gas Meter
HT	8' x 20' Horizontal Heater Treater	GM-3	Gas Meter
S-1	15.5' x 21' 750 bbl bbl Gun Barrel	VRU-1	Vapor Recovery Unit
S-2	4' x 15' Horizontal Separator	VRU-2	Vapor Recovery Unit
S-3	4' x 15' Horizontal Separator	B-1	160' x 60' x 3' - Berm - Metal - Poly
S-4	4' x 15' Horizontal Separator	B-2	85' x 80' x 1' - Earthen Berm
S-5	30" x 10' Separator	B-3	55' x 48' x 1' - Earthen Berm
S-6	30" x 10' Separator	F	Flare
S-7	3' x 6' Horizontal Separator		

SPORT ENVIRONMENTAL SERVICES
A Terracon COMPANY

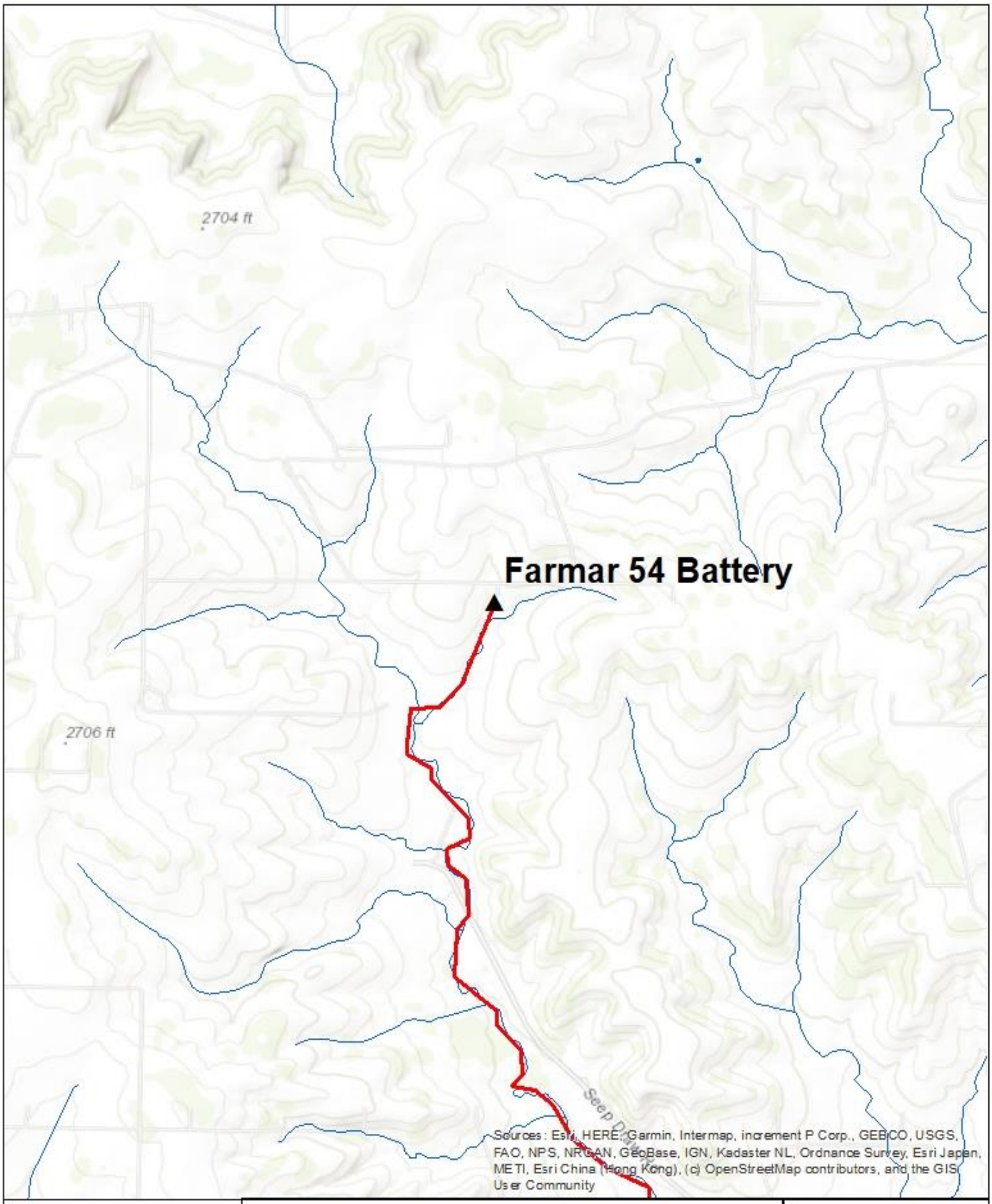
Triple Crown Resources, LLC
Farmar 54 Battery

Irion County, Texas

SITE PLAN

Latitude	Longitude
31.242700 N	-100.970433 W

Author	Drawing Date	Site Visit Date
mlb	1-28-2022	12-9-2021

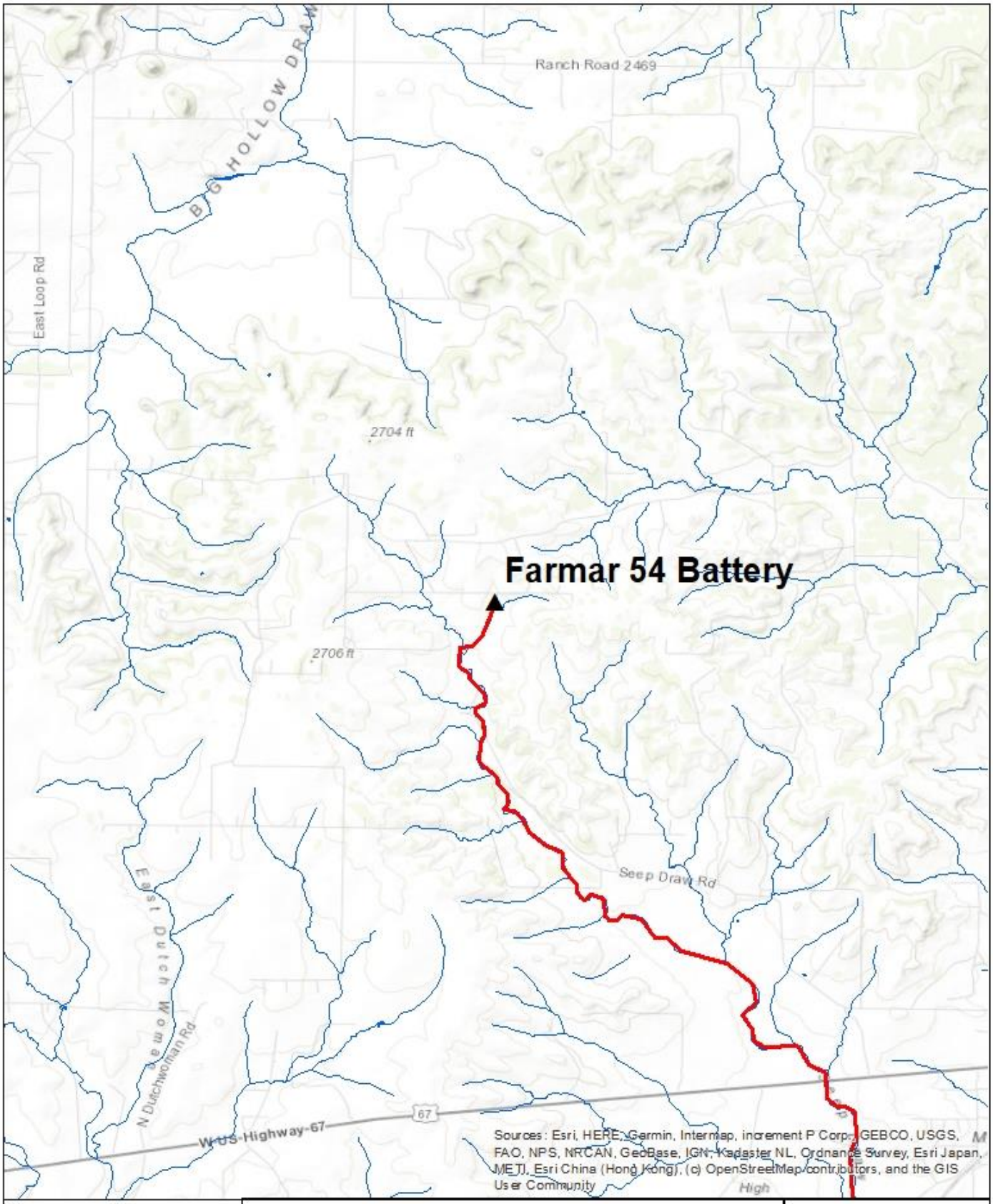


USGS 1:24000

Discharged Topographic Map
Triple Crown Resources
Farmar 54 Battery
31.242700, -100.970433
Irion County, Texas

0 0.5 1 Miles

N



USGS 1:24000

Discharged Topographic Map
Triple Crown Resources
Farmar 54 Battery
31.242700, -100.970433
Irion County, Texas

0 1.5 3 Miles

N

APPENDIX G

Annual Facility Inspection Checklist

This inspection record must be completed *each year.* If any response requires further elaboration, provide comments in Description & Comments space provided. Further description and comments, if necessary, must be provided on a separate sheet of paper and attached to this sheet. *Any item that receives "yes" as an answer must be described and addressed immediately.

	Y*	N	Description & Comments
Storage tanks			
Tank - Produced Oil			
Tank surfaces show signs of leakage			
Tank is damaged, rusted or deteriorated			
Bolts, rivets or seams are damaged			
Tank supports are deteriorated or buckled			
Tank foundations have eroded or settled			
Level gauges or alarms are inoperative			
Tank - Produced Oil			
Tank surfaces show signs of leakage			
Tank is damaged, rusted or deteriorated			
Bolts, rivets or seams are damaged			
Tank supports are deteriorated or buckled			
Tank foundations have eroded or settled			
Level gauges or alarms are inoperative			
Tank - Produced Oil			
Tank surfaces show signs of leakage			
Tank is damaged, rusted or deteriorated			
Bolts, rivets or seams are damaged			
Tank supports are deteriorated or buckled			
Tank foundations have eroded or settled			
Level gauges or alarms are inoperative			
Tank - Produced Water			
Tank surfaces show signs of leakage			
Tank is damaged, rusted or deteriorated			
Bolts, rivets or seams are damaged			
Tank supports are deteriorated or buckled			
Tank foundations have eroded or settled			
Level gauges or alarms are inoperative			

	Y*	N	Description & Comments
Tank - Produced Water			
Tank surfaces show signs of leakage			
Tank is damaged, rusted or deteriorated			
Bolts, rivets or seams are damaged			
Tank supports are deteriorated or buckled			
Tank foundations have eroded or settled			
Level gauges or alarms are inoperative			
Tank - Produced Water			
Tank surfaces show signs of leakage			
Tank is damaged, rusted or deteriorated			
Bolts, rivets or seams are damaged			
Tank supports are deteriorated or buckled			
Tank foundations have eroded or settled			
Level gauges or alarms are inoperative			
Tank - Produced Water			
Tank surfaces show signs of leakage			
Tank is damaged, rusted or deteriorated			
Bolts, rivets or seams are damaged			
Tank supports are deteriorated or buckled			
Tank foundations have eroded or settled			
Level gauges or alarms are inoperative			
Tank - Gun Barrel			
Tank surfaces show signs of leakage			
Tank is damaged, rusted or deteriorated			
Bolts, rivets or seams are damaged			
Tank supports are deteriorated or buckled			
Tank foundations have eroded or settled			
Level gauges or alarms are inoperative			
Heater Treater			
Heater Treater surfaces show signs of leakage			
Heater Treater is damaged, rusted, or deteriorated			
Valves and connections are damaged			
Valves and connections show signs of leakage			
Separator			
Separator surfaces show signs of leakage			
Separator is damaged, rusted, or deteriorated			
Valves and connections are damaged			
Valves and connections show signs of leakage			

	Y*	N	Description & Comments
Separator			
Separator surfaces show signs of leakage			
Separator is damaged, rusted, or deteriorated			
Valves and connections are damaged			
Valves and connections show signs of leakage			
Separator			
Separator surfaces show signs of leakage			
Separator is damaged, rusted, or deteriorated			
Valves and connections are damaged			
Valves and connections show signs of leakage			
Separator			
Separator surfaces show signs of leakage			
Separator is damaged, rusted, or deteriorated			
Valves and connections are damaged			
Valves and connections show signs of leakage			
Separator			
Separator surfaces show signs of leakage			
Separator is damaged, rusted, or deteriorated			
Valves and connections are damaged			
Valves and connections show signs of leakage			
Separator			
Separator surfaces show signs of leakage			
Separator is damaged, rusted, or deteriorated			
Valves and connections are damaged			
Valves and connections show signs of leakage			
Dike or earthen firewalls			
Containment berm is damaged or stained			
Berm is not retaining water (following large rainfall)			
Berm is breached, eroded or has vegetation			
Tank area is clear of trash and vegetation			
Piping/Flowlines and Related Equipment			
Valve seals or gaskets are leaking			
Pipelines or supports are damaged or deteriorated			
Joints, valves and other appurtenances are leaking			
Buried piping is exposed			
Out-of-service pipes are not capped			
Warning signs are missing or damaged			

	Y*	N	Description & Comments
Loading/unloading and transfer equipment			
Connections are not capped or blank-flanged			
Berm drainage valve is open or is not locked			
Drip pans have accumulated oil or are leaking			

Annual reminders :

Hold SPCC Briefing for all oil-handling personnel (and update briefing log in the Plan).
Check contact information for key employees and response/cleanup contractors and update them in the Plan as needed.

Additional Remarks :

Date : _____ Signature : _____

APPENDIX H
Calculations of Secondary Containment Capacity
40 CFR 112.7(a)(3)(iii), 112.9(c)(2)
Triple Crown Resources, LLC
Farmar 54 Battery

The maximum 24-hour rainfall recorded in the last 25 years at this location is : 6.0 inches

Bulk Storage Secondary Containment

Capacity within the Bermed Area 1:

Storage Unit	Tank Amount bbls	Tank Amount gallons		Diameter feet	Volume Displaced gallons
T-1	1000	42,000	Produced Oil	21.5	8147
T-2	1000	42,000	Produced Oil	21.5	8147
T-3	500	21,000	Produced Oil	15.5	4234
T-4	500	21,000	Produced Water	15.5	4234
T-5	500	21,000	Produced Water	15.5	4234
T-6	500	21,000	Produced Water	15.5	4234
T-7	500	21,000	Produced Water	15.5	4234
HT	179	7,518	8' x 20'	skid	752
S-1	750	31,500	15.5' x 21'	15.5	4234
S-2	34	1,428	4' x 15'	skid	188
S-3	34	1,428	4' x 15'	skid	188
S-5	34	1,428	30" x 10'	2.5	110
S-6	8.75	368	30" x 10'	2.5	110

Berm Dimensions:

Berm footprint = 160 ft
60 ft

Berm height = 3 ft

Berm Vol = 160 ft x 60 ft x 3 ft x (7.48 gallons/ ft^3)

= **215,424** gallons

Displacement Vol = $(3.1415 * (21.5\ ft)^2/4 * 3\ ft) + (6(3.1415 * (15.5\ ft)^2/4 * 3\ ft)) + (3.1415 * (8\ ft)^2/4 * 3\ ft) + (2(3.1415 * (4\ ft)^2/4 * 3\ ft)) + (2(3.1415 * (2.5\ ft)^2/4 * 3\ ft))$ x 7.48 gal./ft.

= **34,900** gallons

Available Freeboard for Precipitation

215424 gallons - (42000 gallons + 34900 gallons)

= 138,524 gallons

138524 gal / (7.48 gal/ ft^3) / (160 ft x 60 ft)

= 1.93 feet

= **23.15** inches

The secondary containment area, with the given dimensions, provides sufficient storage capacity for the largest bulk storage container within the bermed area, tank displacement, and precipitation.

*The containment capacity is equivalent to 430% of the largest container.
* ((215424 gallons - 34900 gallons) / 42000 gallons) x 100

Capacity within the Bermed Area 2:

Storage Unit	Tank Amount bbls	Tank Amount gallons		Diameter feet	Volume Displaced gallons
S-4	34	1,428	4' x 15'	sitting on 2 - 4' x 1' concrete piers	60
S-7	7.56	318	3' x 6'	3	53

Berm Dimensions:

Berm footprint = 85 ft
80 ft

Berm height = 1 ft

Berm Vol = 85 ft x 80 ft x 1 ft x (7.48 gallons/ ft^3)
= **50,864** gallons

Displacement Vol = (3.1415 * (3 ft)^2/4 * 1 ft) x 7.48 gal./ft.
= **53** gallons

Available Freeboard for Precipitation
50864 gallons - (1428 gallons + 53 gallons)
= 49,383 gallons
49383 gal / (7.48 gal/ ft^3) / (85 ft x 80 ft)
= 0.97 feet
= **11.65** inches

The secondary containment area, with the given dimensions, provides sufficient storage capacity for the largest bulk storage container within the bermed area, tank displacement, and precipitation.

*The containment capacity is equivalent to 3558% of the largest container.
* ((50864 gallons - 53 gallons) / 1428 gallons) x 100

APPENDIX I
Site Photographs