

State of Colorado  
Oil and Gas Conservation Commission

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



FOR OGCC USE ONLY

EARTHEN PIT REPORT/PERMIT

This form is to be used for both reporting and permitting pits. Rule 903 describes when a Permit with prior approval, or a Report within 30 days, is required for pits. Submit required attachments and forms.

Complete the  
Attachment Checklist

FORM SUBMITTED FOR:

☐ Pit Report

☒ Pit Permit

OGCC Operator Number: 10245

Name of Operator: SingleTree Resources, Inc.

Address: 25528 Genesee Trail Road

City: Golden State: CO Zip: 80401

Contact Name and Telephone:

Tony Markve

No: 303-462-3604

Fax: 303-462-3739

	Oper	OGCC
Detailed Site Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Topo Map w/ Pit Location	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Water Analysis (Form 25)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Source Wells (Form 26)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pit Design/Plan & Cross Sec	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Design Calculations	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sensitive Area Determ.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mud Program	<input type="checkbox"/>	<input type="checkbox"/>
Form 2A	<input type="checkbox"/>	<input type="checkbox"/>

API Number (of associated well): 05-075-08471

OGCC Facility ID (of other associated facility):

Pit Location (QtrQtr, Sec, Twp, Rng, Meridian): NESW,36,11N,54W,6PM

Latitude: 40.88214

Longitude: 103.35807

County: Logan

Pit Use: ☒ Production

☐ Drilling (Attach mud program)

☐ Special Purpose (Describe Use):

Pit Type: ☐ Lined

☒ Unlined

Surface Discharge Permit:

☐ Yes ☒ No

Offsite disposal of pit contents:

☐ Injection

☐ Commercial

Pit/Facility Name: State

Pit/Facility No: 1

Attach Form 26 to identify Source Wells and Form 25 to provide Produced Water Analysis results.

Existing Site Conditions

Is the location in a "Sensitive Area?"

☐ Yes

☒ No

Attach data used for determination.

→ STATE OF CO WEBSITE

Distance (in feet) to nearest surface water: >5280

ground water: 300

water wells: >5280

LAND USE (or attach copy of Form 2A if previously submitted for associated well) Select one which best describes land use:

Crop Land: ☐ Irrigated

☐ Dry Land

☐ Improved Pasture

☐ Hay Meadow

☐ CRP

Non-Crop Land: ☒ Rangeland

☐ Timber

☐ Recreational

☐ Other (describe):

Subdivided: ☐ Industrial

☐ Commercial

☐ Residential

SOILS (or attach copy of Form 2A if previously submitted for associated well)

Soil map units form USNRCS survey: Sheet No:

Soil Complex/Series No:

Soils Series Name:

Horizon thickness (in inches): A:

; B:

; C:

Soils Series Name:

Horizon thickness (in inches): A:

; B:

; C:

Attach detailed site plan and topo map with pit location.

Pit Design and Construction

Size of pit (feet): Length: 36

Width: 26

Depth: 8

Calculated pit volume (bbls): 1334

Daily inflow rate (bbls/day): 2

Daily disposal rates (attach calculations):

Evaporation: 0

bbls/day

Percolation: 2

bbls/day

Type of liner material:

Thickness:

Attach description of proposed design and construction (include sketches and calculations).

Method of treatment of produced water prior to discharge into pit (separator, heater treater, other): Heater Treater

Is pit fenced? ☒ Yes

☐ No

Is pit netted?

☐ Yes

☒ No

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

Print Name: Tony Markve

Signed:

Title: VP

Date: 11/2/2009

OGCC Approved:

Title:

Date:

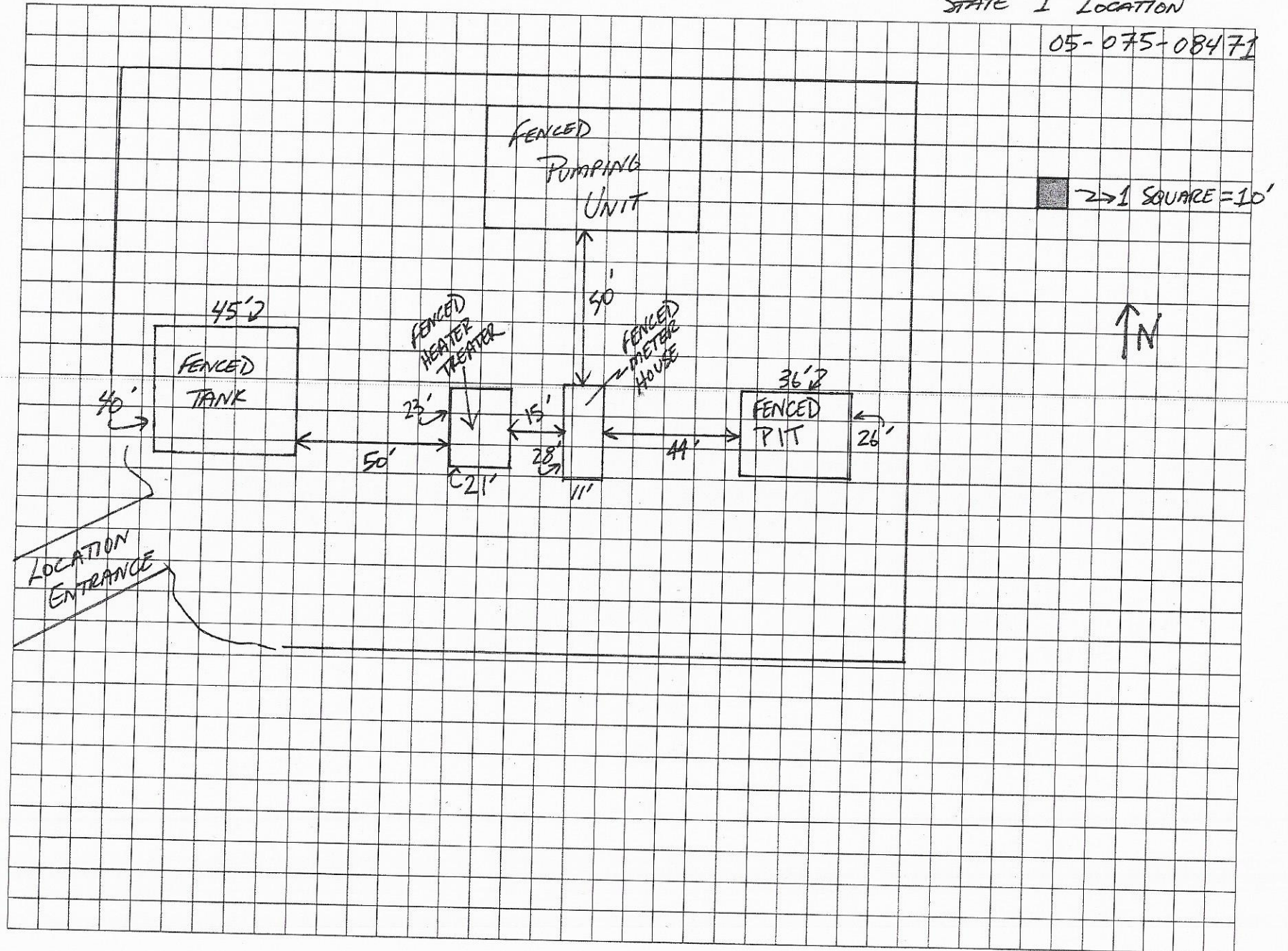
CONDITIONS OF APPROVAL, IF ANY:

FACILITY NUMBER:



STATE #1 LOCATION

05-075-08471



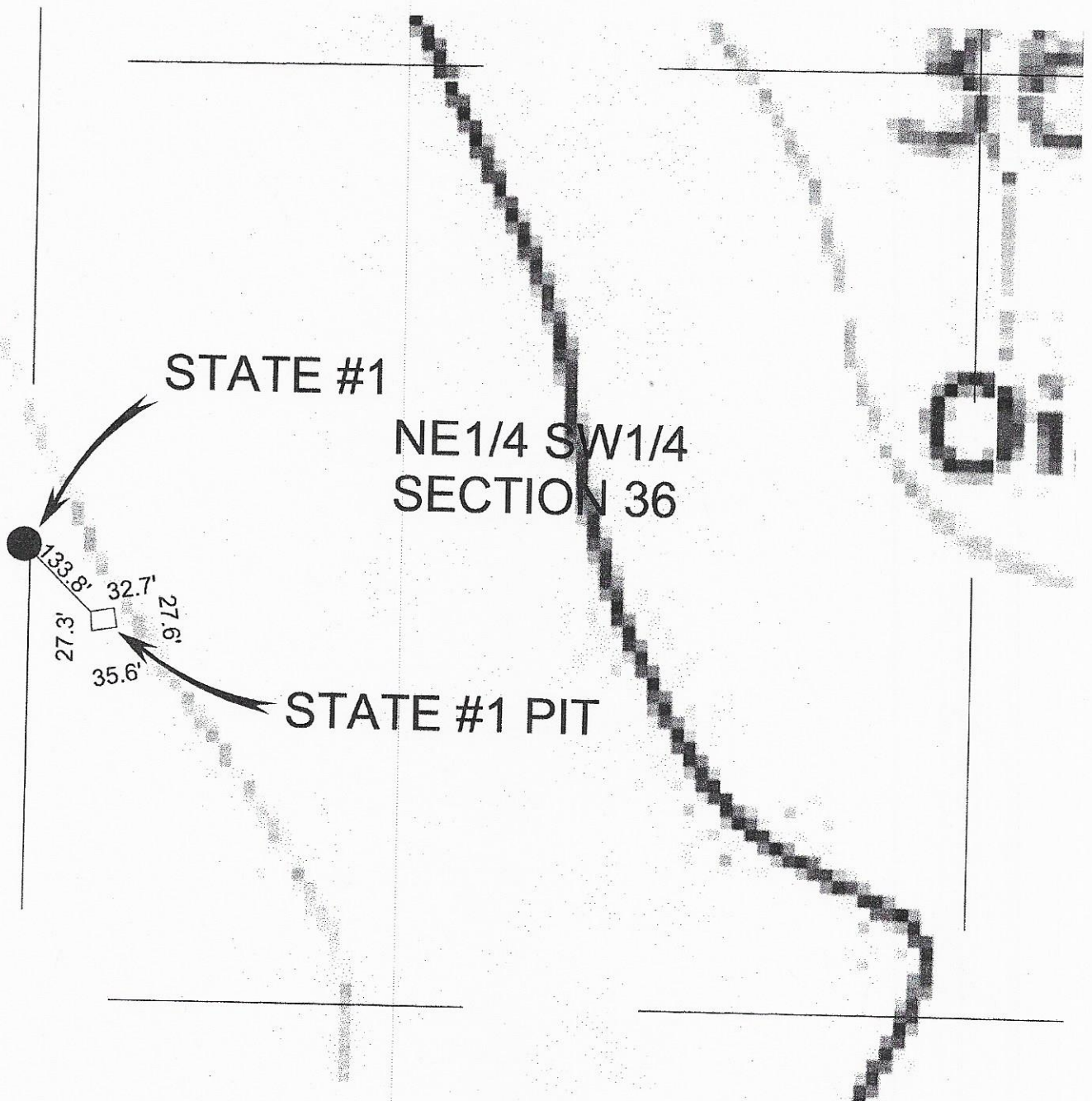
103°21'00" W

103°22'00" W

**NATIONAL  
GEOGRAPHIC**

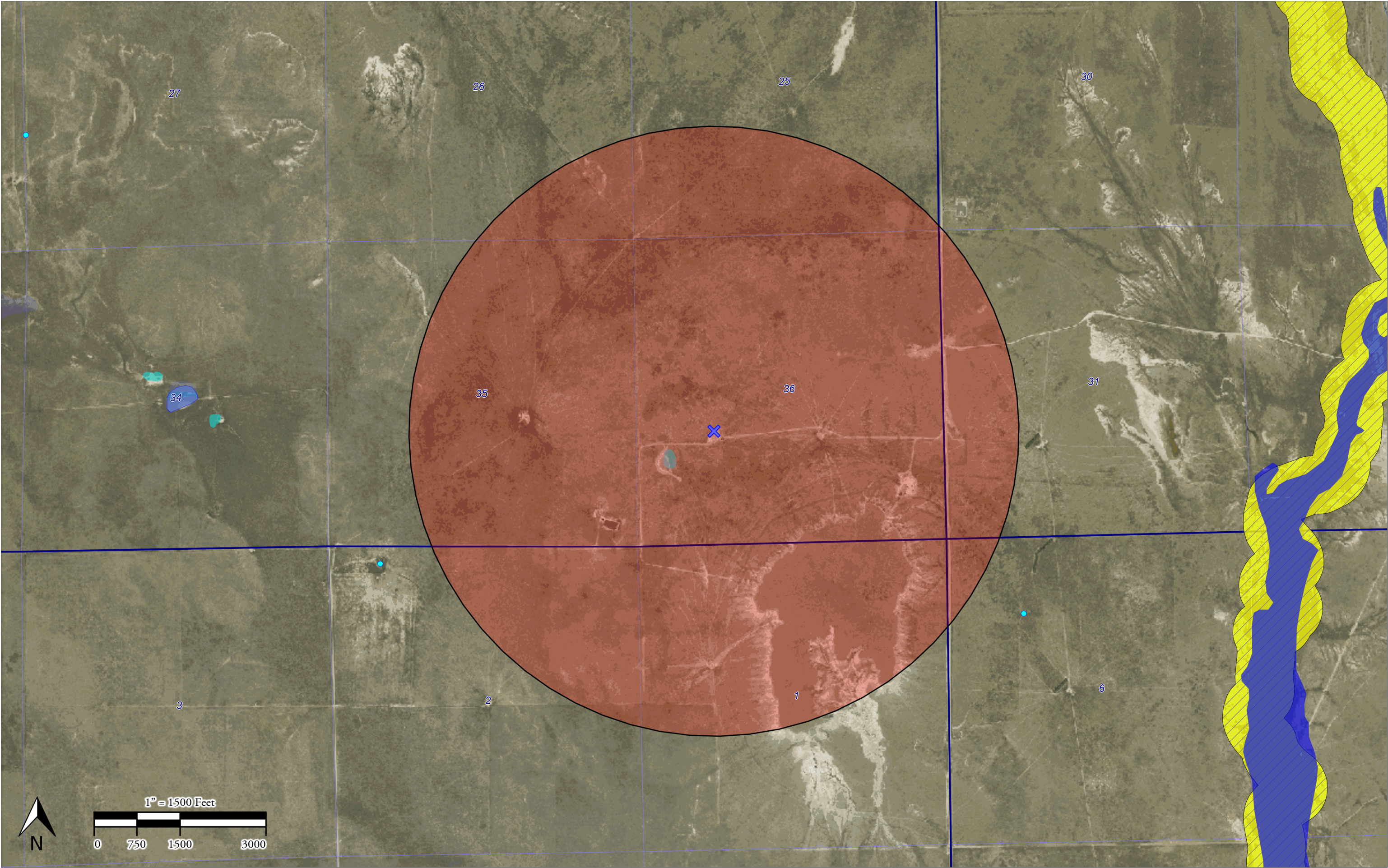
TN★MN  
9°  
10/12/09







Brown O&G State 1 Pit - Sensitive Area 1 Mile Buffer Map





**MAVERICK  
STIMULATION COMPANY, LLC**

P.O. BOX 219 • 12701 ENERGY ROAD • FORT MORGAN, CO. 80701 • PH (970) 867-2700 • FAX (970) 867-2708

**WATER ANALYSIS**

COMPANY: SINGLE TREE RES. INC  
\_\_\_\_\_  
FAX: \_\_\_\_\_  
E-MAIL: \_\_\_\_\_

LEASE: STATE  
#1  
DATE: 10/28/2009  
SAMPLE NUMBER: WS1028092

**DISSOLVED SOLIDS:  
CATIONS:**

Sodium, Na (Calc) ppm: 1,093  
Calcium, Ca, ppm: 1,022  
Magnesium, Mg, ppm: 205

**WELL DATA**

Depth: \_\_\_\_\_ ft  
Formation: \_\_\_\_\_  
Water BPD: \_\_\_\_\_

**ANIONS**

Chlorides, Cl ppm: 3,700  
Sulfates, SO<sub>4</sub>, ppm: 49  
Bicarbonates, HCO<sub>3</sub> ppm: 610  
Carbonates, CO<sub>3</sub> ppm: \_\_\_\_\_

**OTHER PROPERTIES**

pH: 6.0  
Specific Gravity: 1.0035 68 °F  
Resistivity (Meter) ohm\*M: 1.2 66 °F  
Total Hardness, ppm: 1227

Total Dissolved Solids (Calculated) ppm: \_\_\_\_\_  
Derived from Specific Gravity, ppm: 5,400  
Iron, Fe (Total) ppm: 250  
Sulfide, as H<sub>2</sub>S ppm: NONE

**REMARKS AND RECOMMENDATIONS:**

TOTAL HARDNESS, CALCIUM AND MAGNESIUM VALUES ARE INCORRECT DUE TO

HIGH IRON CONTENT OF SAMPLE.

Analyst: ALAN L. DUBOIS



State of Colorado  
Oil and Gas Conservation Commission

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



FOR OGCC USE ONLY

**SOURCE OF PRODUCED WATER FOR DISPOSAL**

This form must be completed for any new disposal site and for any change in sources of produced water for an existing disposal site.

Complete the  
Attachment Checklist

OGCC Operator Number: <u>10245</u>		Contact Name and Telephone: <u>Tony Markve</u>
Name of Operator: <u>SingleTree Resources, Inc.</u>		No: <u>303-462-3604</u>
Address: <u>25528 Genesee Trail Road</u>		Fax: <u>303-462-3739</u>
City: <u>Golden</u>	State: <u>CO</u> Zip: <u>80401</u>	
OGCC Disposal Facility Number: _____		
Operator's Disposal Facility Name: _____		Operator's Disposal Facility Number: _____
Location (QtrQtr, Sec, Twp, Rng, Meridian): _____		
Address: _____		
City: _____ State: _____ Zip: _____ County: _____		

Chemical Analysis of fluid	Oper. OGCC
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

If more space is required,  
attach additional sheet.

Add Source:	OGCC Lease No: <u>7865.3</u>	API No: <u>05-075-08471</u>	Well Name & No: <u>State #1</u>
<input checked="" type="checkbox"/>	Operator Name: <u>SingleTree Resources</u>	Operator No: <u>10245</u>	
Delete Source:	Location: QtrQtr: <u>NESW</u> Section: <u>36</u> Township: <u>11N</u> Range: <u>54W</u>	Producing Formation: <u>D-Sand</u>	
<input type="checkbox"/>	Analysis Attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Transported to disposal site via: <input type="checkbox"/> Pipeline <input type="checkbox"/> Truck TDS: <u>Flowline</u>	
Add Source:	OGCC Lease No: _____	API No: _____	Well Name & No: _____
<input type="checkbox"/>	Operator Name: _____	Operator No: _____	
Delete Source:	Location: QtrQtr: _____ Section: _____ Township: _____ Range: _____	Producing Formation: _____	
<input type="checkbox"/>	Analysis Attached? <input type="checkbox"/> Yes <input type="checkbox"/> No	Transported to disposal site via: <input type="checkbox"/> Pipeline <input type="checkbox"/> Truck TDS: _____	
Add Source:	OGCC Lease No: _____	API No: _____	Well Name & No: _____
<input type="checkbox"/>	Operator Name: _____	Operator No: _____	
Delete Source:	Location: QtrQtr: _____ Section: _____ Township: _____ Range: _____	Producing Formation: _____	
<input type="checkbox"/>	Analysis Attached? <input type="checkbox"/> Yes <input type="checkbox"/> No	Transported to disposal site via: <input type="checkbox"/> Pipeline <input type="checkbox"/> Truck TDS: _____	
Add Source:	OGCC Lease No: _____	API No: _____	Well Name & No: _____
<input type="checkbox"/>	Operator Name: _____	Operator No: _____	
Delete Source:	Location: QtrQtr: _____ Section: _____ Township: _____ Range: _____	Producing Formation: _____	
<input type="checkbox"/>	Analysis Attached? <input type="checkbox"/> Yes <input type="checkbox"/> No	Transported to disposal site via: <input type="checkbox"/> Pipeline <input type="checkbox"/> Truck TDS: _____	
Add Source:	OGCC Lease No: _____	API No: _____	Well Name & No: _____
<input type="checkbox"/>	Operator Name: _____	Operator No: _____	
Delete Source:	Location: QtrQtr: _____ Section: _____ Township: _____ Range: _____	Producing Formation: _____	
<input type="checkbox"/>	Analysis Attached? <input type="checkbox"/> Yes <input type="checkbox"/> No	Transported to disposal site via: <input type="checkbox"/> Pipeline <input type="checkbox"/> Truck TDS: _____	

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

Print Name: Tony Markve

Title: VP

Signed: \_\_\_\_\_

Date: 11/2/2009

OGCC Approved: \_\_\_\_\_

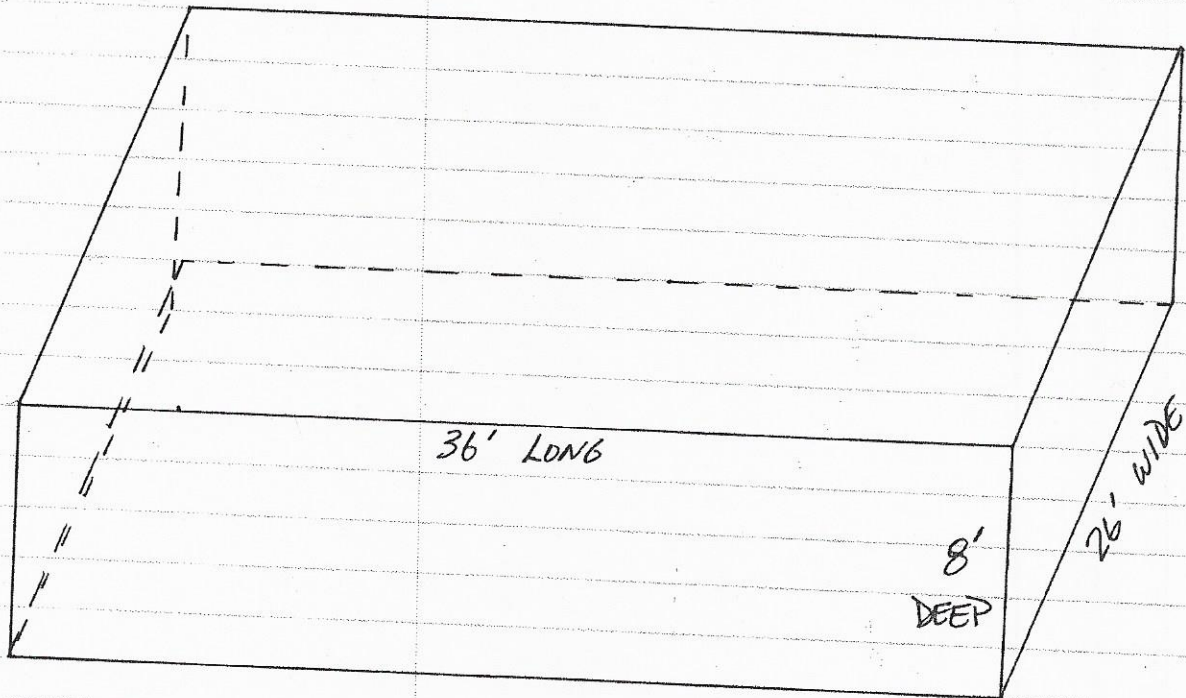
Title: \_\_\_\_\_

Date: \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

STATE #1  
05-075-08471

### PIT CROSS SECTION



### PIT CALCULATIONS

$$\text{VOLUME} \Rightarrow 36' \times 26' \times 8' \Rightarrow 7,488 \text{ FT}^3$$

$$7488 \text{ FT}^3 \times 0.17811 \text{ BBL/FT}^3$$

1334 BBL CAPACITY



**COGCC Approved GPS Form**

The current operator name	The number assigned to the operator by the Colorado Oil and Gas Conservation Commission.	The state code for Colorado is 05.	The FIPS county code of the county where the well is located.	The unique well number assigned to the well by the COGCC when it was permitted.	The operators well name and number.	The 40 acre quarter quarter location in the section where the well is located.	The section number in the Public Land Survey System where the well is located.	The Township number and direction in the Public Land Survey System where the well is located.	The range number and direction in the Public Land Survey System where the well is located.	The Latitude of the well decimal degrees with an accuracy and precision of five (5) decimals of a degree using the North American Datum (NAD) of 1983	The Longitude of the well decimal degrees with an accuracy and precision of five (5) decimals of a degree using the North American Datum (NAD) of 1983	Position dilution of precision (PDOP) value from the and shall be included with location data.
<b>Operator Name</b>	<b>COGCC Operator Number</b>	<b>API State Code</b>	<b>API County Code</b>	<b>API Sequence Number</b>	<b>Well Name and Number</b>	<b>QtrQtr</b>	<b>Section</b>	<b>Township</b>	<b>Range</b>	<b>Latitude</b>	<b>Longitude</b>	<b>PDOP</b>
SINGLETREE RESOURCES INC.	10245	05	75	08045	HALEY SMITH #1	NESE	24	11 NORTH	54 WEST	40.91151°N	103.34598°W	2.000
SINGLETREE RESOURCES INC.	10245	05	75	08471	STATE #1	NESW	36	11 NORTH	54 WEST	40.83214°N	103.35807°W	1.800
SINGLETREE RESOURCES INC.	10245	05	75	09346	JULIE CAMPBELL #1	SESE	8	11 NORTH	54 WEST	40.93881°N	103.42261°W	1.500
SINGLETREE RESOURCES INC.	10245	05	75	09359	DOUD 11-4	NWNW	4	11 NORTH	54 WEST	40.96149°N	103.41606°W	2.100
SINGLETREE RESOURCES INC.	10245	05	75	09358	MARILEE STATE 11-16	NWNW	16	11 NORTH	54 WEST	40.93161°N	103.41547°W	1.700
SINGLETREE RESOURCES INC.	10245	05	75	09366	DOUD 43-5	NESE	5	11 NORTH	54 WEST	40.95513°N	103.42248°W	1.800

Inspector Name: ALLISON, RICK

FORM  
INSP

Rev  
05/11

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



DE ET OE ES

Inspection Date:

03/06/2012

Document Number:

667400006

Overall Inspection:

Satisfactory

FIELD INSPECTION FORM

Location Identifier Facility ID Loc ID Tracking Type  
389830 389830 Inspector Name: ALLISON, RICK

Operator Information:

OGCC Operator Number: 10245 Name of Operator: SINGLETREE RESOURCES INC

Address: 521 PROGRESS CIRCLE #1

City: CHEYENNE

State: WY

Zip: 82007

Contact Information:

Contact Name	Phone	Email	Comment
Tony Markve	307-316-0100	tony@singletreeresources.com	

Compliance Summary:

QtrQtr: NESW Sec: 36 Twp: 11N Range: 54W

Inspector Comment:

Related Facilities:

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name
220349	WELL	PR	05/16/2009	LO	075-08471	STATE 1
389830	LOCATION	CL	04/14/2009		-	STATE-611N54W 36NESW

Equipment:

Location Inventory

Special Purpose Pits:	Drilling Pits:	Wells:	Production Pits:
Condensate Tanks:	Water Tanks:	Separators:	Electric Motors:
Gas or Diesel Motors:	Cavity Pumps:	LACT Unit:	Pump Jacks:
Electric Generators:	Gas Pipeline:	Oil Pipeline:	Water Pipeline:
Gas Compressors:	VOC Combustor:	Oil Tanks:	Dehydrator Units:
Multi-Well Pits:	Pigging Station:	Flare:	Fuel Tanks:

Location

Emergency Contact Number: (S/U/V) Satisfactory

Corrective Date: 03/06/2012

Comment:

Corrective Action:

Spills:

Type	Area	Volume	Corrective action	CA Date
------	------	--------	-------------------	---------

☐ Multiple Spills and Releases?



Inspector Name: ALLISON, RICK

**Tanks/Berms:**

☐ New Tank

Tank ID: \_\_\_\_\_

Contents	#	Capacity	Type	SE GPS
CRUDE OIL	1	300 BBLs	STEEL AST	

S/U/V: Unsatisfactory

Comment:

Corrective Action: label crude oil tank per Rule 210.d.

Corrective Date: 03/06/2012

**Paint**

Condition	Adequate
-----------	----------

Other (Content)

Other (Capacity)

Other (Type)

**Berms**

Type	Capacity	Permeability (Wall)	Permeability (Base)	Maintenance
Earth	Inadequate	Walls Sufficient	Base Sufficient	Inadequate

Corrective Action build up berm to provide sufficient capacity per Rule 604.d.

Corrective Date 04/30/2012

Comment berms worn

**Venting:**

Yes/No

Comment

**Flaring:**

Type

Satisfactory/Unsatisfactory

Comment

Corrective Action

CA Date

Inspector Name: ALLISON, RICK

**Predrill**

Location ID: 389830

**Site Preparation:**

Lease Road Adeq.: \_\_\_\_\_

Pads: \_\_\_\_\_

Soil Stockpile: \_\_\_\_\_

Corrective Action: \_\_\_\_\_

Date: \_\_\_\_\_ CDP Num.: \_\_\_\_\_

**Form 2A COAs:**

**Wildlife BMPs:**

**Stormwater:**

**Comment:**

**Staking:**

**On Site Inspection (305):**

**Surface Owner Contact Information:**

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Cell Phone: \_\_\_\_\_

**Operator Rep. Contact Information:**

Landman Name: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Date Onsite Request Received: \_\_\_\_\_

Date of Rule 306 Consultation: \_\_\_\_\_

Request LGD Attendance: \_\_\_\_\_

**LGD Contact Information:**

Name: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Agreed to Attend: \_\_\_\_\_

**Summary of Landowner Issues:**

**Summary of Operator Response to Landowner Issues:**

**Onsite Inspection Memorandum Summarizing Discussions at Inspection as Attachment:**

**Environmental**

**Spills/Releases:**

Type of Spill: \_\_\_\_\_ Description: \_\_\_\_\_ Estimated Spill Volume: \_\_\_\_\_

Comment: \_\_\_\_\_

Corrective Action: \_\_\_\_\_ Date: \_\_\_\_\_

Reportable: \_\_\_\_\_ GPS: Lat \_\_\_\_\_ Long \_\_\_\_\_

Proximity to Surface Water: \_\_\_\_\_ Depth to Ground Water: \_\_\_\_\_

**Water Well:**

DWR Receipt Num: \_\_\_\_\_ Owner Name: \_\_\_\_\_ GPS : \_\_\_\_\_ Lat \_\_\_\_\_ Long \_\_\_\_\_

**Field Parameters:**

Sample Location: \_\_\_\_\_

Emission Control Burner (ECB): \_\_\_\_\_

Comment: \_\_\_\_\_

Pilot: \_\_\_\_\_



Inspector Name: ALLISON, RICK

Wildlife Protection Devices (fired vessels):

**Reclamation - Storm Water - Pit**

**Interim Reclamation:**

Date Interim Reclamation Started: \_\_\_\_\_ Date Interim Reclamation Completed: \_\_\_\_\_

Land Use: \_\_\_\_\_

Comment: \_\_\_\_\_

1003a. Debris removed? \_\_\_\_\_ CM \_\_\_\_\_  
CA \_\_\_\_\_ CA Date \_\_\_\_\_  
Waste Material Onsite? \_\_\_\_\_ CM \_\_\_\_\_  
CA \_\_\_\_\_ CA Date \_\_\_\_\_  
Unused or unneeded equipment onsite? \_\_\_\_\_ CM \_\_\_\_\_  
CA \_\_\_\_\_ CA Date \_\_\_\_\_  
Pit, cellars, rat holes and other bores closed? \_\_\_\_\_ CM \_\_\_\_\_  
CA \_\_\_\_\_ CA Date \_\_\_\_\_  
Guy line anchors removed? \_\_\_\_\_ CM \_\_\_\_\_  
CA \_\_\_\_\_ CA Date \_\_\_\_\_  
Guy line anchors marked? \_\_\_\_\_ CM \_\_\_\_\_  
CA \_\_\_\_\_ CA Date \_\_\_\_\_

1003b. Area no longer in use? \_\_\_\_\_ Production areas stabilized? \_\_\_\_\_

1003c. Compacted areas have been cross ripped? \_\_\_\_\_

1003d. Drilling pit closed? \_\_\_\_\_ Subsidence over on drill pit? \_\_\_\_\_

Cuttings management: \_\_\_\_\_

1003e. Areas no longer needed for drilling or subsequent operations for have been re-vegetated to 80% of pre-existing? \_\_\_\_\_  
Production areas have been stabilized? \_\_\_\_\_ Segregated soils have been replaced? \_\_\_\_\_

**RESTORATION AND REVEGETATION**

Cropland

Top soil replaced \_\_\_\_\_ Recontoured \_\_\_\_\_ Perennial forage re-established \_\_\_\_\_

Non-Cropland

Top soil replaced \_\_\_\_\_ Recontoured \_\_\_\_\_ 80% Revegetation \_\_\_\_\_

1003 f. Weeds Noxious weeds? \_\_\_\_\_

Comment: \_\_\_\_\_

Overall Interim Reclamation \_\_\_\_\_

**Final Reclamation/ Abandoned Location:**

Date Final Reclamation Started: \_\_\_\_\_ Date Final Reclamation Completed: \_\_\_\_\_

Final Land Use: \_\_\_\_\_

Reminder: \_\_\_\_\_

Comment: \_\_\_\_\_

Well plugged \_\_\_\_\_

Pit mouse/rat holes, cellars backfilled \_\_\_\_\_

Debris removed \_\_\_\_\_

No disturbance /Location never built \_\_\_\_\_

Inspector Name: ALLISON, RICK

Access Roads \_\_\_\_\_ Regraded \_\_\_\_\_ Contoured \_\_\_\_\_ Culverts removed \_\_\_\_\_  
Gravel removed \_\_\_\_\_  
Location and associated production facilities reclaimed \_\_\_\_\_ Locations, facilities, roads, recontoured \_\_\_\_\_  
Compaction alleviation \_\_\_\_\_ Dust and erosion control \_\_\_\_\_  
Non cropland: Revegetated 80% \_\_\_\_\_ Cropland: perennial forage \_\_\_\_\_  
Weeds present \_\_\_\_\_ Subsidence \_\_\_\_\_  
Comment: \_\_\_\_\_  
Corrective Action: \_\_\_\_\_ Date \_\_\_\_\_  
Overall Final Reclamation \_\_\_\_\_

**Storm Water:**

Loc Erosion BMPs	BMP Maintenance	Lease Road Erosion BMPs	Lease BMP Maintenance	Chemical BMPs	Chemical BMP Maintenance	Comment

S/U/V: \_\_\_\_\_ Corrective Date: \_\_\_\_\_  
Comment: \_\_\_\_\_  
CA: \_\_\_\_\_

**Pits:**

Pit Type: Percolation \_\_\_\_\_ Lined: NO \_\_\_\_\_ Pit ID: \_\_\_\_\_ Lat: \_\_\_\_\_ Long: \_\_\_\_\_

**Lining:**

Liner Type: \_\_\_\_\_ Liner Condition: \_\_\_\_\_

Comment: \_\_\_\_\_

**Fencing:**

Fencing Type: Livestock \_\_\_\_\_ Fencing Condition: Adequate \_\_\_\_\_

Comment: \_\_\_\_\_

**Netting:**

Netting Type: \_\_\_\_\_ Netting Condition: \_\_\_\_\_

Comment: \_\_\_\_\_

Anchor Trench Present: \_\_\_\_\_ Oil Accumulation: NO \_\_\_\_\_ 2+ feet Freeboard: \_\_\_\_\_

Pit (S/U/V): Satisfactory \_\_\_\_\_ Comment: a skim tank is present; permit was submitted to COGCC November 2009, remains in process; pit size approximately 20 ft x 30 ft x 8 ft

Corrective Action: \_\_\_\_\_ Date: \_\_\_\_\_

**Attached Documents**

You can go to COGCC Images (<https://cogcc.state.co.us/weblink/>) and search by document number:

Document Num	Description	URL
667400010	Pit Photo from SE corner	<a href="http://cogcc.state.co.us/weblink/DownloadDocumentPDF.aspx?DocumentId=2887245">http://cogcc.state.co.us/weblink/DownloadDocumentPDF.aspx?DocumentId=2887245</a>