

FORM

19

Rev 6/99



02141237

State of Colorado
Oil and Gas Conservation Commission

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

**RECEIVED**

FOR COGCC USE ONLY

JUN 06 2014

COGCC**SPILL/RELEASE REPORT**

This form is to be submitted by the party responsible for the oil and gas spill or release. Any spill or release which may impact waters of the State must be reported as soon as practicable; any spill over 20 bbls must be reported within 24 hours and all spills over five bbls must be reported within ten days. Submit a Site Investigation and Remediation Workplan (Form 27) when requested by the Director.

Spill report taken by:

FACILITY ID:

OPERATOR INFORMATIONName of Operator: Whitewing Resources, LLC OGCC Operator No: 96675Address: 518 17th Street, Suite 250City: Denver State: CO Zip: 80202Contact Person: Ryan Willett**Phone Numbers**No: 303 623-0809Fax: 303 623-1831E-Mail: hlwoilgas@aol.com**DESCRIPTION OF SPILL OR RELEASE**Date of Incident: 6-3-14 Facility Name & No.: Stanley OlsenType of Facility (well, tank battery, flow line, pit): Wells, flow lines, separators, tank batteryWell Name and Number: Stanley Olson #1 and #2 (Samples from W of side by side separators)API Number: 05-123-10374 and 05-123-23335County: WeldQtrQtr: SWSE Section: 14Township: 2N Range: 68WMeridian: 6th

Specify volume spilled and recovered (in bbls) for the following materials:

Oil spilled: _____ Oil recov'd: _____ Water spilled: _____ Water recov'd: _____ Other spilled: _____ Other recov'd: _____

Ground Water impacted? ☒ Yes ☐ NoSurface Water impacted? ☐ Yes ☒ NoContained within berm? ☐ Yes ☒ NoArea and vertical extent of spill: 100 ft x 150 ftCurrent land use: FarmlandWeather conditions: Not relevant because not a recent release

Soil/geology description: _____

IF LESS THAN A MILE, report distance IN FEET to nearest.... Surface water: _____ wetlands: _____ buildings: 960

Livestock: _____ water wells: _____ Depth to shallowest ground water: _____

Cause of spill (e.g., equipment failure, human error, etc.): Historical slow leakage

Detailed description of the spill/release incident:

During due diligence process pursuant to impending sale, environmental consultant took soil and water samples from the area surrounding the wells and detected reportable levels of certain compounds. Samples taken next to side by side separators. Not known if release is from one or both.

CORRECTIVE ACTION

Describe immediate response (how stopped, contained and recovered):

N/A Release is historical

Describe any emergency pits constructed:

N/A Release is historical

How was the extent of contamination determined:

Boring, sampling of subsurface soil and water.

Further remediation activities proposed (attach separate sheet if needed):

Further consultation and remedial planning in progress with consultant and prospective buyer.

Describe measures taken to prevent problem from reoccurring:

The original flow lines and produced water tanks were replaced many years ago with more modern versions than were originally installed. There is no indication of ongoing release.

OTHER NOTIFICATIONS

List the parties and agencies notified (County, BLM, EPA, DOT, Local Emergency Planning Coordinator or other).

Date	Agency	Contact	Phone	Response
6-3-14	Town of Firestone	dmontgomery@ci.firestone.co.us		None

Spill/Release Tracking No: _____

Table **Soil and Water Sample Analytical Summary** **BTEX and TPH**

Site Name	Sample Number	Sample Depth	Sample Matrix	Sample Date	BTEX (µg/L)				TPH (mg/kg)		Boring Location
					Benzene	Toluene	Ethylbenzene	Total Xylenes	GRO (C6-C10 Range)	DRO (C10-C28 Range)	
	PER-SB 1-18	18'	Soil		-	-	-	-	ND	93.6	SW of tank battery
	PER-SB 3-10	10'	Soil	4/24/2014	-	-	-	-	3440	765	SW of separator
Parry 1	PER-SB 1-GW	N/A	Water		5390	ND	1780	12100	-	-	SW of tank battery
	OTT-SB 1-20	20'	Soil	4/24/2014	-	-	-	-	ND	ND	NW of separator
Ottensen 1	OTT-SB3-5	5'	Soil		-	-	-	-	ND	ND	W of tank battery
	BEI-SB1-23	23'	Soil	4/24/2014	-	-	-	-	ND	239	SE of separator
Beierle 1 and 2	BEI-SB3-23	23'	Soil	4/25/2014	-	-	-	-	ND	ND	E of tank battery
	EDI-SB1-25	25'	Soil		-	-	-	-	ND	ND	NW of tank battery
Edith H Whiteside 1	EDI-SB3-20	20'	Soil	4/25/2014	-	-	-	-	ND	ND	NW of separator
	EDI-SB1-GW	N/A	Water		ND	ND	ND	ND	-	-	NW of tank battery
	STAN-SB1-10	10'	Soil		-	-	-	-	ND	74	W of Stanley Olson 1 tank battery
	STAN-SB2-13	13'	Soil		-	-	-	-	908	442	W of separators
Stanley Olson 1 and 2	STAN-SB2-GW	N/A	Water	4/25/2014	26.5	ND	287	7630	-	-	W of separators
	STAN-SB2-MW-GW	N/A	Water		ND	ND	ND	ND	-	-	N of Stanley Olson tank battery

¹ Colorado Oil and Gas Conservation Commission (COGCC), 900 Series, Exploration and Production Waste Management, Table 910-1, Concentration Levels, February 1, 2014

mg/kg

Bold

BTEX

TPH

ND

NA

µg/L

- Milligrams per kilogram

- Above COGCC soil concentration level

- Benzene, toluene, ethylbenzene, total xylenes

- Total petroleum hydrocarbons

- Sample not reported above laboratory reporting limit

- Sample not analyzed for that parameter

- Micrograms per liter

GRO - Gasoline range organics

DRO - Diesel range organics

ORO - Oil range organics

Table 2
Groundwater Sample Analytical Summary
Whitewing

Site Name	Sample Number	Depth to Groundwater (At Time of Drilling)	Sample Date	BTEX (µg/L)				Boring Location
				Benzene	Toluene	Ethylbenzene	Total Xylenes	
Perry 1				Groundwater				
				5	1,000	700	10,000	
	COGCC Groundwater Concentration Levels (mg/L)							
	PER-SB 1-GW	19 ft.	4/24/2014	5,390	ND	1,780	12,100	SW of tank battery
	PER-SB 5-20 GW	21 ft.	5/6/2014	ND	ND	ND	ND	N of separators
	PER-SB6-22GW	17 ft.	5/6/2014	ND	ND	ND	ND	WSW of separator
Ottensen 1	Borings Dry - No Groundwater Samples Collected							
Beldefe 1 and 2	Borings Dry - No Groundwater Samples Collected							
Edith H Whiteside 1	EDI-SB1-GW	22 ft.	4/25/2014	ND	ND	ND	ND	NW of tank battery
	STAN-SB2-GW	7 ft.		26.5	ND	287	7,830	W of separators
	STAN-SB2-MW-GW	Not Measured	4/25/2014	ND	ND	ND	ND	Existing monitoring well N of northern tank battery
Stanley Olson 1&2	STA-SB4-12GW	12 ft.		3,970	ND	1,700	6,390	SW of SB 3
	STA-SB5-16GW	12 ft.	5/7/2014	ND	ND	56	726	SE of northern tank battery
	STA-SB7-12GW	13 ft.		ND	ND	ND	4.7	NW of southern tank battery
	STA-SB8-12GW	13 ft.		ND	ND	ND	ND	E of wellheads

1. COCRAO Oil and Gas Conservation Commission (COGCC), 900 Series, Exploration and Production Waste Management, Table 910-1, Concentration Levels, February 1, 2014

µg/L

Boil

BTEX

ND

NA

- Micrograms per liter

- Above COGCC Table 910-1 concentration level

- Benzene, toluene, ethylbenzene, total xylenes

- Sample not reported above laboratory reporting limit

- Sample not analyzed for that parameter

Table 1
Soil and Water Sample Analytical Summary
BTEX and TPH

Site Name	Sample Number	Sample Depth	Sample Matrix	Sample Date	BTEX (µg/L)				TPH (mg/kg)		Boring Location
					Benzene	Toluene	Ethylbenzene	Total Xylenes	GRO (C6-C10 Range)	DRO (C10-C28 Range)	
Perry 1	PER-SB 1-18	18'	Soil	4/24/2014	-	-	-	-	ND	93.6	SW of tank battery
	PER-SB 3-10	10'	Soil		-	-	-	-	3440	765	SW of separator
	PER-SB 1-GW	N/A	Water		5390	ND	1780	12100	-	-	SW of tank battery
	STAN-SB1-10	10'	Soil		-	-	-	-	ND	74	W of Stanley Olson 1 tank battery
	STAN-SB2-13	13'	Soil		-	-	-	-	908	442	W of separators
Stanley Olson 1 and 2	STAN-SB2-GW	N/A	Water	4/25/2014	26.5	ND	287	7830	-	-	W of separators
	STAN-SB2-MW-GW	N/A	Water		ND	ND	ND	ND	-	-	N of Stanley Olson tank battery

¹ Colorado Oil and Gas Conservation Commission (COGCC), 900 Series, Exploration and Production Waste Management, Table 910-1, Concentration Levels, February 1, 2014

mg/kg

Bold

BTEX

TPH

ND

NA

µg/L

- Milligrams per kilogram

- Above COGCC soil concentration level

- Benzene, toluene, ethylbenzene, total xylenes

- Total petroleum hydrocarbons

- Sample not reported above laboratory reporting limit

- Sample not analyzed for that parameter

- Micrograms per liter

GRO - Gasoline range organics

DRO - Diesel range organics

ORO - Oil range organics

Table 2
Groundwater Sample Analytical Summary
Whitewing

Site Name	Sample Number	Depth to Groundwater (At Time of Drilling)	Sample Date	BTEX (µg/L)				Boring Location	
				Benzene	Toluene	Ethylbenzene	Total Xylenes		
	Groundwater								
	COGCC Groundwater Concentration Levels (mg/L)								
			5	1,000	700 ¹	10,000 ¹			
	PER-SB 1-GW	19 ft.	4/24/2014	5,390	ND	1,780	12,100		SW of tank battery
	PER-SB 5-20 GW	21 ft.	5/6/2014	ND	ND	ND	ND		N of separators
	PER-SB6-22GW	22 ft.		ND	ND	ND	ND		SE of separator
	PER-SB8-20GW	20 ft.		ND	ND	ND	ND		W of separators
	PER-SB9-20GW	20 ft.	5/16/2014	ND	ND	ND	ND		E of separators
	PER-SB10-20GW	Boring dry at time of drilling - Temporary well set 5/16/2016 - Checked 5/19/210 - Dry							
STAN-SB2-GW	7 ft.	4/25/2014	26.5	ND	287	7,830	NW of tank battery		
STAN-SB2-MMW-GW	Not Measured		ND	ND	ND	ND	W of separators		
STAN-SB4-12GW	12 ft.		ND	ND	ND	ND	Existing monitoring well N of northern tank battery		
Stanley Olson 1&2	STA-SB5-16GW	12 ft.	5/7/2014	3,970	ND	1,700	6,390	SW of SB 3	
	STA-SB7-12GW	13 ft.		ND	ND	56	726	SE of northern tank battery	
	STA-SB8-12GW	13 ft.		ND	ND	ND	4.7	NW of southern tank battery	
	STA-SB9-12GW	12 ft.	5/16/2014	ND	ND	ND	ND	E of wellheads	
	STA-SB10-15GW	15 ft.		1.6	ND	ND	ND	NE of tank battery	
				ND	ND	ND	13.7	North of well heads	

Colorado Oil and Gas Conservation Commission (COGCC), 900 Series, Exploration and Production Waste Management, Table 910-1, Concentration Levels, February 1, 2014

- 1
µg/L
- Colorado drinking water maximum contaminant level (MCL) as listed in COGCC Table 910-1
 - Micrograms per liter
 - Above COGCC Table 910-1 concentration level
 - BTEX
 - Benzene, toluene, ethylbenzene, total xylenes
 - Sample not reported above laboratory reporting limit
 - NA
 - Sample not analyzed for that parameter

Table 2
Groundwater Sample Analytical Summary
Whiewing

Site Name	Sample Number	Depth to Groundwater (At Time of Drilling)	Sample Date	BTEX (µg/L)				Boring Location	
				Benzene	Toluene	Ethylbenzene	Total Xylenes		
Perry 1	PER-SB 1-GW	19 ft.	4/24/2014	5,390	ND	1,780	12,100	SW of tank battery	
	PER-SB 5-20 GW	21 ft.	5/6/2014	ND	ND	ND	ND	N of separators	
	PER-SB6-22GW	22 ft.		ND	ND	ND	ND	SE of separator	
	PER-SB8-20GW	20 ft.	5/16/2014	ND	ND	ND	ND	W of separators	
	PER-SB8-20GW	20 ft.		ND	ND	ND	ND	E of separators	
	PER-SB10-20GW	Boring dry at time of drilling - Temporary well set 5/16/2016 - Checked 5/19/2010 - Dry			26.5	ND	287	7,830	NW of tank battery
	STAN-SB2-GW	7 ft.		ND	ND	ND	ND	W of separators	
	STAN-SB2-MM-GW	Not Measured	4/25/2014	ND	ND	ND	ND	Existing monitoring well N of northern tank battery	
	STA-SB4-12GW	12 ft.		3,970	ND	1,700	6,390	SW of SB 3	
	STA-SB5-16GW	12 ft.	5/7/2014	ND	ND	56	726	SE of northern tank battery	
Stanley Olson 1&2	STA-SB7-12GW	13 ft.		ND	ND	ND	4.7	NW of southern tank battery	
	STA-SB8-12GW	13 ft.		ND	ND	ND	ND	E of wellheads	
	STA-SB9-12GW	12 ft.	5/16/2014	1.6	ND	ND	ND	NE of tank battery	
	STA-SB10-15GW	15 ft.		ND	ND	ND	13.7	North of well heads	

Colorado Oil and Gas Conservation Commission (COGCC), 900 Series, Exploration and Production Waste Management, Table 910-1, Concentration Levels, February 1, 2014

1

µg/L

ND

BTEX

NA

- Colorado drinking water maximum contaminant level (MCL) as listed in COGCC Table 910-1

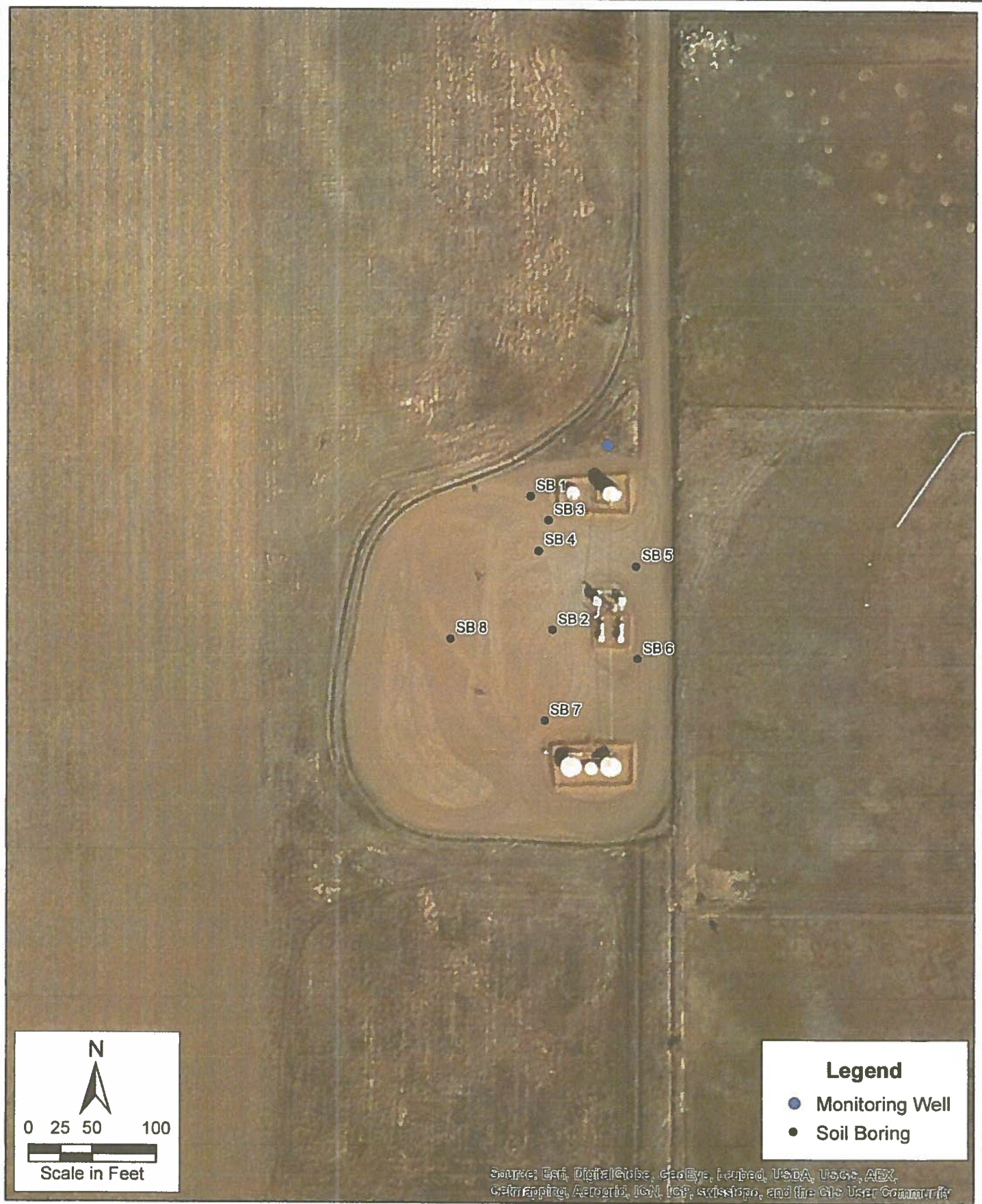
- Micrograms per liter

- Above COGCC Table 910-1 concentration level

- Benzene, toluene, ethylbenzene, total xylenes

- Sample not reported above laboratory reporting limit

- Sample not analyzed for that parameter



PROJECT: 014-0905

DRAWN BY: JM

DATE: May 12, 2014

Stanley Olson #1 and #2
Great Western Oil & Gas
Company
Weld County, Colorado

OLSSON[®]
ASSOCIATES

FIGURE

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