Inspector Name: FISCHER, ALEX

FORM INSP Rev 05/11

State of Colorado
Oil and Gas Conservation Commission

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

FIELD INSPECTION FORM

DE	ET	OE	ES

Inspection Date: 06/25/2013

Document Number: 667100044

Overall Inspection: Satisfactory

Location Identifier	Facility ID	Loc ID	Inspector Name:	On-Site Inspection	2A Doc Num:
	149010		FISCHER, ALEX	☐	

Operator Information:

OGCC Operator Number: 100160 Name of Operator: ENCANA ENERGY RESOURCES INC.

Address: 370 17TH ST STE 1700

City: DENVER State: CO Zip: 80202-

Contact Information:

Contact Name	Phone	Email	Comment
		brandon.pattison@state.co.us	
		trevor.pellerite@state.co.us	
Blake Ford	303-774-3980	blake.ford@encana.com	

Compliance Summary:

QtrQtr: Sec: Twp: Range:

Inspector Comment:

June 25, 2013 Field InspectionFacility ID: 149010, NARCO Wattenberg LandfarmCOGCC: Alex Fischer, Environmental Supervisor Brandon Pattison, Intern Trevor PelleriteEncana: Blake Ford, Environmental Field CoordinatorOn June 25, 2013, COGCC met with Encana to discuss final closeout of the NARCO Wattenberg Landfarm. The Facility has not been used as a landfarm farm for approximately 4 years. The Facility has been somewhat reclaimed and is currently used for equipment storage. There are eight (8) groundwater monitoring wells present that are located around the perimeter of the former soil aeration pad, including two (2) monitoring wells in the vicinity of the dry retention pond.The following was discussed:• Provide a brief discussion of activities performed at the Facility including type(s) of waste brought in for treatment, how the current Soil Aeration Pad had been reclaimed to its current state.• Collect water samples from each of the monitoring wells. Samples should be analyzed for TPH (GRO and DRO), and BTEX.• Advance direct-push or similar soil borings in the area of the Soil Aeration Pad to adequately characterize subsurface conditions. Removal of all equipment currently being stored is not requires; however, some equipment may need to be temporarily moved. Samples should be collected from the subsurface at an elevation in which treatment activities took place. At a minimum, soil samples should be analyzed for TPH (GRO and DRO), and BTEX.Review of documents on file with the COGCC indicated the following:• Document Number: 1417937. Elevated total petroleum hydrocarbons where noted in treated materials located in the southwest corner as well as in the southern half of the Soil Aeration Pad.• Document Number: 1417935. Provided a discussion of a Phase II at the Facility that removal of stained soil and drilling mud should be removed from the southwest corner of the landfarm.• Document Number: 1162748. Provided discussion that the proposed waste profile to be treated and managed would include hydrocarbon affected soil, frac sand, and freshwater based bentonite drilling mud.Based on the review of historical documents, the subsurface soil sampling should focus on in the southwest corner of the Soil Aeration Pad, but should also adequately characterize the entire Soil Aeration Pad Facility.Rule 908.g. Closure. States the following:(1) Preliminary closure plan. A general preliminary plan for closure shall be submitted with the centralized E&P waste management facility permit, Form 28. The preliminary closure plan shall include, but not be limited to: A. A general plan for closure and reclamation of the entire facility, including a description of the activities required to decommission and remove all equipment, close and reclaim pits, dispose of or treat residual waste, collect samples as needed to verify compliance with soil and ground water standards, implement post-closure monitoring, and complete other remediation, as required.(2) Final closure plan. A detailed Site Investigation and Remediation Workplan, Form 27, shall be submitted at least sixty (60) days prior to closure for approval by the Director. The workplan shall include, but not be limited to, a description of the activities required to decommission and remove all equipment, close and reclaim pits, dispose of or treat residual waste, collect samples as needed to verify compliance with soil and ground water standards, implement post-closure monitoring, and complete other remediation, as required.

Related Facilities:

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	
149010	CENTRALIZED EP WASTE MGMT FAC	AC	10/20/2000		-	NARCO WATTENBURG LANDFARM	X

Equipment: Location Inventory

Inspector Name: FISCHER, ALEX

Location

Emergency Contact Number: (S/U/V) _____ Corrective Date: _____

Comment:

Corrective Action:

Spills:				
Type	Area	Volume	Corrective action	CA Date

☐ Multilple Spills and Releases?

Fencing/:				
Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date
LOCATION	Satisfactory			

Venting:	
Yes/No	Comment

Flaring:				
Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date

Inspector Name: FISCHER, ALEX

Predrill

Location ID: 149010

Site Preparation:

Lease Road Adeq.: _____ Pads: _____ Soil Stockpile: _____

Corrective Action: _____ Date: _____ CDP Num.: _____

Form 2A COAs:

Comment: _____

CA: _____ **Date:** _____

Wildlife BMPs:

Comment: _____

CA: _____ **Date:** _____

Stormwater:

Erosion BMPs	Present	Other BMPs	Present
			`

Corrective Action: _____ Date: _____

Comments: Erosion BMPs: _____

Other BMPs: _____

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:

Facility

Facility ID: 149010 Type: CENTRALIZE API Number: - Status: AC Insp. Status: IO

Environmental

Spills/Releases:

Type of Spill: _____ Description: _____ Estimated Spill Volume: _____

Inspector Name: FISCHER, ALEX

Comment:

Corrective Action: Date:

Reportable: GPS: Lat Long

Proximity to Surface Water: Depth to Ground Water:

Water Well:

Lat Long

DWR Receipt Num: Owner Name: GPS :

Field Parameters:

Sample Location:

Emission Control Burner (ECB):

Comment:

Pilot: 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

Inspector Name: FISCHER, ALEX

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 _____

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 _____ Multi-Well Location ☐

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:

COGCC Comments

Inspector Name: FISCHER, ALEX

Comment	User	Date
June 25, 2013 Field Inspection Facility ID: 149010, NARCO Wattenberg Landfarm COGCC: Alex Fischer, Environmental Supervisor Brandon Pattison, Intern Trevor Pellerite Encana: Blake Ford, Environmental Field Coordinator On June 25, 2013, COGCC met with Encana to discuss final closeout of the NARCO Wattenberg Landfarm. The Facility has not been used as a landfarm farm for approximately 4 years. The Facility has been somewhat reclaimed and is currently used for equipment storage. There are eight (8) groundwater monitoring wells present that are located around the perimeter of the former soil aeration pad, including two (2) monitoring wells in the vicinity of the dry retention pond. The following was discussed: • Provide a brief discussion of activities performed at the Facility including type(s) of waste brought in for treatment, how the current Soil Aeration Pad had been reclaimed to its current state. • Collect water samples from each of the monitoring wells. Samples should be analyzed for TPH (GRO and DRO), and BTEX. • Advance direct-push or similar soil borings in the area of the Soil Aeration Pad to adequately characterize subsurface conditions. Removal of all equipment currently being stored is not requires; however, some equipment may need to be temporarily moved. Samples should be collected from the subsurface at an elevation in which treatment activities took place. At a minimum, soil samples should be analyzed for TPH (GRO and DRO), and BTEX. Review of documents on file with the COGCC indicated the following: • Document Number: 1417937. Elevated total petroleum hydrocarbons where noted in treated materials located in the southwest corner as well as in the southern half of the Soil Aeration Pad. • Document Number: 1417935. Provided a discussion of a Phase II at the Facility that removal of stained soil and drilling mud should be removed from the southwest corner of the landfarm. • Document Number: 1162748. Provided discussion that the proposed waste profile to be treated and managed would include hydrocarbon affected soil, frac sand, and freshwater based bentonite drilling mud. Based on the review of historical documents, the subsurface soil sampling should focus on in the southwest corner of the Soil Aeration Pad, but should also adequately characterize the entire Soil Aeration Pad Facility. Rule 908.g. Closure. States the following: (1) Preliminary closure plan. A general preliminary plan for closure shall be submitted with the centralized E&P waste management facility permit, Form 28. The preliminary closure plan shall include, but not be limited to: A. A general plan for closure and reclamation of the entire facility, including a description of the activities required to decommission and remove all equipment, close and reclaim pits, dispose of or treat residual waste, collect samples as needed to verify compliance with soil and ground water standards, implement post-closure monitoring, and complete other remediation, as required. (2) Final closure plan. A detailed Site Investigation and Remediation Workplan, Form 27, shall be submitted at least sixty (60) days prior to closure for approval by the Director. The workplan shall include, but not be limited to, a description of the activities required to decommission and remove all equipment, close and reclaim pits, dispose of or treat residual waste, collect samples as needed to verify compliance with soil and ground water standards, implement post-closure monitoring, and complete other remediation, as required.	fischera	06/26/2013