Inspector Name: HELGELAND, GARY

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

DE	ET	OE	ES

Inspection Date: 11/02/2015

Document Number: 681900122

Overall Inspection: SATISFACTORY

FIELD INSPECTION FORM

Location Identifier	Facility ID	Loc ID	Inspector Name:	On-Site Inspection	2A Doc Num:
	434530	434526	HELGELAND, GARY	☐	

Operator Information:

OGCC Operator Number: 100185

Name of Operator: ENCANA OIL & GAS (USA) INC

Address: 370 17TH ST STE 1700

City: DENVER State: CO Zip: 80202-

☐ THIS IS A FOLLOW UP INSPECTION
☐ FOLLOW UP INSPECTION REQUIRED
☒ NO FOLLOW UP INSPECTION REQUIRED
☐ INSPECTOR REQUESTS FORM 42 WHEN CORRECTIVE ACTIONS ARE COMPLETED

Contact Information:

Contact Name	Phone	Email	Comment
J, D		cogcc.djinspections@encana.com	D J Basin

Compliance Summary:

QtrQtr: SESE Sec: 29 Twp: 1N Range: 68W

Inspector Comment:

Related Facilities:

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	Insp Status	
434525	WELL	DG	11/23/2014	SI	123-38225	Pratt 4G-29H-P168	DG	☒
434527	WELL	XX	07/30/2015	LO	123-38226	Pratt 4D-29H-P168	XX	☒
434528	WELL	XX	07/30/2015	LO	123-38227	Pratt 4F-29H-P168	XX	☒
434529	WELL	XX	07/30/2015	LO	123-38228	Pratt 4E-29H-P168	XX	☒
434530	WELL	XX	07/30/2015	LO	123-38229	Pratt 4B-29H-P168	XX	☒
434733	WELL	XX	07/30/2015	LO	123-38301	Pratt 4C-29H-P168	XX	☒

Equipment: Location Inventory

Special Purpose Pits:		Drilling Pits:		Wells:	6	Production Pits:	
Condensate Tanks:		Water Tanks:		Separators:	6	Electric Motors:	
Gas or Diesel Mortors:		Cavity Pumps:		LACT Unit:		Pump Jacks:	
Electric Generators:		Gas Pipeline:	1	Oil Pipeline:	1	Water Pipeline:	1
Gas Compressors:		VOC Combustor:		Oil Tanks:		Dehydrator Units:	
Multi-Well Pits:		Pigging Station:	1	Flare:		Fuel Tanks:	

Location

Inspector Name: HELGELAND, GARY

Signs/Marker:				
Type	Satisfactory/Action Required	Comment	Corrective Action	CA Date
WELLHEAD				

Emergency Contact Number (S/A/V): SATISFACTORY Corrective Date:

Comment:

Corrective Action:

Spills:				
Type	Area	Volume	Corrective action	CA Date

☐ Multilple Spills and Releases?

Fencing/:				
Type	Satisfactory/Action Required	Comment	Corrective Action	CA Date
WELLHEAD	SATISFACTORY	Pipe and wire mesh.		

Venting:	
Yes/No	Comment
NO	

Flaring:				
Type	Satisfactory/Action Required	Comment	Corrective Action	CA Date

Predrill

Location ID: 434530

Site Preparation:

Lease Road Adeq.: Pads: Soil Stockpile:

S/A/V:

Corrective Action: Date: CDP Num.:

Form 2A COAs:

S/A/V: **Comment:**

CA: **Date:**

Wildlife BMPs:

BMP Type	Comment
General Housekeeping	Any material not in use that might constitute a fire hazard will be removed a minimum of twenty-five (25) feet from the wellhead, tanks and separator. Any electrical equipment installations inside the bermed area will comply with API RP 500 classifications and comply with the current national electrical code as adopted by the State of Colorado.

Planning	Maximize equipment and wellhead setbacks from occupied buildings and residences to the extent feasible and practicable, as determined by Encana. Prior to commencement of any new drilling or completion operations, provide notification to landowners within one-half (1/2) mile of the well-site. Prior to commencement of any new drilling or completion operations, provide to an Erie designated staff member the following for the well-site for informational purposes only, which Encana may revise from time to time during operations: a) A summary of planned operations, including identified access points and operational timeline, for posting to a local community information web-page b) A site plan for site preparation, mobilization and demobilization c) A plan for interim reclamation and vegetation of the site and final reclamation of the site d) A plan for noise, light and dust mitigation, to the extent feasible e) A traffic management plan f) Updates of this information if any change during operations
Construction	Utilize steel-rim berms around tanks and separators instead of sand or soil berms
General Housekeeping	All surface trash, debris, scrap or discarded material connected with the operations of the property shall be removed from the premises or disposed of in a legal manner.
Construction	Subject pad will have all weather access roads to allow for operator and emergency response.
Noise mitigation	Encana will perform a baseline noise survey prior to any operational activity measuring dBA at a distance 350 feet from the noise source or sound levels will be measured at a point twenty-five (25) feet from the structure towards the noise source. In situations where measurement of noise levels at three hundred and fifty (350) feet is impractical or unrepresentative due to topography, the measurement may be taken at a lesser distance and extrapolated to a 350-foot equivalent using the formula stated in Rule 802 of the State of Colorado Oil and Gas Conservation Commission. As necessary, based on the survey, Encana will install temporary sound walls to minimize noise and light impacts during drilling and completions and will install permanent noise mitigation at the facility location as necessary to meet all COGCC regulations.
General Housekeeping	Encana will identify plugged and abandoned wellbores according to Rule 319.a.(5). including the location of the wellbore with a permanent monument as specified in Rule 319.a.(5). Encana will also inscribe or imbed the well number and date of plugging upon the permanent monument.
Emissions mitigation	Flow lines, separators, and sand traps capable of supporting green completions as described in Rule 805 will be installed on subject location at which commercial quantities of gas are reasonably expected to be produced based on existing adjacent wells within 1 mile.
Drilling/Completion Operations	Encana will employ a rig without kelly that has double ram with blind and pipe ram and an annular preventer. At least one person at the well site during drilling operations will have Mineral Management certification or Director approved training for blowout prevention.
Drilling/Completion Operations	Closed-top tanks will utilize backpressure systems that exert a minimum of four (4) ounces of backpressure and a maximum that does not exceed the pressure rating of the tank to facilitate gathering and combustion of tank.

PROPOSED BMPs	Communication plan for the Pratt 29H location: a. Encana will hold a Community Meeting with the Vista Ridge neighborhood at least 45 days prior to re-entering the Pratt 29H location. The meeting will focus on addressing questions and concerns about all operations at the Pratt site. b. Encana will follow the notification protocol that includes notifying all neighbors within a half mile of the Pratt location via a mailed notice that outlines the phases of activity and critical contact information. This mailed 'Courtesy Notice' will be sent 30 days before drilling starts on location. Addresses are to be pulled from the Weld County Assessors website. c. Additional proactive communication to neighbors that Encana will do includes a phone call, email or text (neighbors can choose how to be contacted via Encana.com) within a half mile of the Pratt location, one week before starting construction, drilling and completions activity. d. Encana will utilize the Town of Erie's website and the Encana page to post the same notices that are sent to neighbors. The Encana activity map will be updated 30 days prior to activity starting on location. Erie's LGD will also receive all notices and distribute via the Town's communication system. e. Encana can be reached with concerns and questions via their hotline 866-896-6371; email address communityrelationsUSA@encana.com; and their Encana Community Relations - Erie, Colorado Facebook Page. Encana will respond to most questions left at these channels within 24 hours.
Material Handling and Spill Prevention	• Annual hydrostatic test on the oil dump line from the separator to the tank battery. • Annual hydrostatic "static" tests on our oil tanks. • Annual hydrostatic "static" tests on our produced water tank and water dump line from the separator to the produced water tank. • Lease Operator inspections of all equipment not to exceed 48 hours. • Monthly documented inspections (EU). • Annual environmental inspections of all battery and well equipment and pads. • Annual UT inspections of the pressure vessels and input into Encana's RIPL Predictive Integrity Maintenance Program. (HLP separators and fuel gas separators)
Emissions mitigation	Encana will follow and comply with all leak detection and repair and storage tank emission management plan conditions as required by Colorado Air Quality Control Commission Regulation Number 7. This will include at least monthly Audible, Visual and Olfactory (AVO) inspections of the components and tanks at our Production Facilities at most weekly or at least monthly starting on January 1, 2015. In addition, Encana will perform infra-red camera inspections of these components and the storage tanks at most monthly or at least annually.
Drilling/Completion Operations	Encana will utilize a closed-loop system for drilling operations at this location.
Construction	The pad will be constructed in such a manner that noise mitigation may be installed and removed without disturbing the site or landscaping.
Material Handling and Spill Prevention	Well effluent containing more than ten (10) barrels per day of condensate or within two (2) hours after first encountering hydrocarbon gas of salable quality will be directed to a combination of sand traps, separators, surge vessels, and tanks as needed to ensure safe separation of sand, hydrocarbon liquids, water, and gas and to ensure salable products are efficiently recovered for sale or conserved and that non-salable products are disposed of in a safe and environmentally responsible manner.
General Housekeeping	The well site will be cleared of all non-essential equipment, trash and debris after ninety days of a well P&A.
Drilling/Completion Operations	Encana will not utilize pits.
Drilling/Completion Operations	Guy line anchors in the DJ Basin are not installed. Encana will use an engineered base beam that we guy wire anchor the derricks to.

Construction	Encana utilizes 24” tall corrugated galvanized metal berm walls with a capacity in excess of 150% of the largest tank contained within the wall. In addition, Encana best practices mandates the use of impervious liners that extends under each storage tank and up the walls, permanently affixed to the top of the metal berm wall. Protrusions of piping that come through the liner include a fully sealed “boot” to prevent leakage.
PROPOSED BMPs	Noise: Will perform a baseline noise survey prior to any operational activity measuring the dBA at a distance of three hundred and fifty 350 feet from the noise source or sound level will be measured at a point twenty-five (25) feet from the structure towards the noise source. In situations where measurement of noise levels at 350 feet is impractical or unrepresentative due to topography, the measurement may be taken at a lesser distance and extrapolated to the 350-foot equivalent using the formula stated in Rule 802. At a minimum Encana will: a. Install 32’ temporary sound walls around the drill pad to minimize noise and light impacts during drilling and completions. b. Install 16’ temporary sound wall along the south side of the access road. c. Additional noise surveys will be completed during major change of operations and shared with COGCC inspectors when requested. d. May place additional noise mitigation at operators discretion after review of noise surveys to ensure sound regulations are being met.
Material Handling and Spill Prevention	All loadlines will be capped for every location in the DJ.
Drilling/Completion Operations	Utilize closed-loop systems for drilling and completion operations to minimize the need for earthen pits Utilize a high-low pressure vessel (HLP) and vapor recovery unit (VRU) for new wells drilled. Encana may remove the VRU system at such time Encana determines that the VRU system is no longer necessary due to reduced emission recoveries and/or efficiencies, but no earlier than one (1) year after the new well is drilled
Construction	At the time of construction, all leasehold roads will be constructed to accommodate local emergency vehicle access requirements, and will be maintained in a reasonable condition.
Emissions mitigation	Temporary flowback flaring and oxidizing equipment will include: adequately sized equipment to handle 1.5 times the largest flowback volume of gas experienced in a ten mile radius. If there is overrun, Encana will shut in the well versus freely venting.
Drilling/Completion Operations	All newly installed or replaced crude oil and condensate storage tanks will be designed, constructed, and maintained in accordance with National Fire Protection Association (NFPA) Code 30 (2008 version). Encana will maintain written records verifying proper design, construction, and maintenance, and will make these records available for inspection by the Director. In addition, onsite inspections are conducted internally to insure guidelines are met.
Construction	Encana will install fencing to restrict access to wellheads and equipment. Fencing style will be installed as required by the town.

S/A/V: _____ **Comment:** _____

CA: _____ **Date:** _____

Stormwater:

Comment: _____

Staking:

On Site Inspection (305):

Surface Owner Contact Information:

Name: _____ Address: _____

Phone Number: _____ Cell Phone: _____

Operator Rep. Contact Information:

Inspector Name: HELGELAND, GARY

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: 434525 Type: WELL API Number: 123-38225 Status: DG Insp. Status: DG

Well Drilling

Rig: Rig Name: Pusher/Rig Manager:

Permit Posted: Access Sign:

Well Control Equipment:

Pipe Ram: Blind Ram: Hydril Type:

Pressure Test BOP: Test Pressure PSI: Safety Plan:

Drill Fluids Management:

Lined Pit: Unlined Pit: Closed Loop: Semi-Closed Loop:

Multi-Well: Disposal Location:

Comment:

Only conductor pipe set.

BradenHead

Comment: Only conductor pipe set.

CA:

CA Date:

Facility ID: 434527 Type: WELL API Number: 123-38226 Status: XX Insp. Status: XX

Well Drilling

Rig: Rig Name: Pusher/Rig Manager:

Permit Posted: Access Sign:

Well Control Equipment:

Pipe Ram: Blind Ram: Hydril Type:

Pressure Test BOP: Test Pressure PSI: Safety Plan:

Drill Fluids Management:

Lined Pit: Unlined Pit: Closed Loop: Semi-Closed Loop:

Multi-Well: Disposal Location:

Comment:

Only conductor pipe set.

BradenHead

Comment: Only conductor pipe set.

CA:

CA Date:

Facility ID: 434528 Type: WELL API Number: 123-38227 Status: XX Insp. Status: XX

Well Drilling

Rig: Rig Name: Pusher/Rig Manager:

Permit Posted: Access Sign:

Well Control Equipment:

Pipe Ram: Blind Ram: Hydril Type:

Pressure Test BOP: Test Pressure PSI: Safety Plan:

Drill Fluids Management:

Lined Pit: Unlined Pit: Closed Loop: Semi-Closed Loop:

Multi-Well: Disposal Location:

Comment:

Only conductor pipe set.

BradenHead

Comment: Only conductor pipe set.

CA:

CA Date:

Facility ID: 434529 Type: WELL API Number: 123-38228 Status: XX Insp. Status: XX

Well Drilling

Rig: Rig Name: Pusher/Rig Manager:

Permit Posted: Access Sign:

Well Control Equipment:

Pipe Ram: Blind Ram: Hydril Type:

Pressure Test BOP: Test Pressure PSI: Safety Plan:

Drill Fluids Management:

Lined Pit: Unlined Pit: Closed Loop: Semi-Closed Loop:

Multi-Well: Disposal Location:

Comment:

Only conductor pipe set.

BradenHead

Comment: Only conductor pipe set.

CA:

CA Date:

Facility ID: 434530 Type: WELL API Number: 123-38229 Status: XX Insp. Status: XX

Well Drilling

Rig: Rig Name: Pusher/Rig Manager:

Permit Posted: Access Sign:

Well Control Equipment:

Pipe Ram: _____ Blind Ram: _____ Hydril Type: _____

Pressure Test BOP: _____ Test Pressure PSI: _____ Safety Plan: _____

Drill Fluids Management:

Lined Pit: _____ Unlined Pit: _____ Closed Loop: _____ Semi-Closed Loop: _____

Multi-Well: _____ Disposal Location: _____

Comment:

Wellhead in place. Not completed.

BradenHead

Comment: Bradenhead is plumed to surface.

CA:

CA Date:

Facility ID: 434733 Type: WELL API Number: 123-38301 Status: XX Insp. Status: XX

Well Drilling

Rig: Rig Name: _____ Pusher/Rig Manager: _____

Permit Posted: _____ Access Sign: _____

Well Control Equipment:

Pipe Ram: _____ Blind Ram: _____ Hydril Type: _____

Pressure Test BOP: _____ Test Pressure PSI: _____ Safety Plan: _____

Drill Fluids Management:

Lined Pit: _____ Unlined Pit: _____ Closed Loop: _____ Semi-Closed Loop: _____

Multi-Well: _____ Disposal Location: _____

Comment:

Only conductor pipe set.

BradenHead

Comment: Only conductor pipe set.

CA:

CA Date:

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:

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: RANGELAND

Comment:

1003a. Debris removed? Pass CM

CA CA Date

Waste Material Onsite? Pass CM

CA CA Date

Unused or unneeded equipment onsite? Pass CM

CA CA Date

Pit, cellars, rat holes and other bores closed? Pass CM

CA CA Date

Guy line anchors removed? Pass 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 In Process

Final Reclamation/ Abandoned Location:

Date Final Reclamation Started: Date Final Reclamation Completed:

Final Land Use: RANGELAND

Reminder:

Inspector Name: HELGELAND, GARY

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 _____ Well Release on Active Location ☐ Multi-Well Location ☐

Storm Water:

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

S/A/V: SATISFACTORY Corrective Date: _____

Comment:

CA:

Pits: ☐ NO SURFACE INDICATION OF PIT

Attached Documents

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

Document Num	Description	URL
681900122	INSPECTION APPROVED	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3713301