Inspector Name: Rickard, Jeff

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: 09/03/2015

Document Number: 674102564

Overall Inspection: SATISFACTORY

FIELD INSPECTION FORM

Location Identifier	Facility ID	Loc ID	Inspector Name:	On-Site Inspection	2A Doc Num:
	436671	319537	Rickard, Jeff	☐	

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
,		cogcc.djinspections@encana.com	Group email

Compliance Summary:

QtrQtr: SESE Sec: 36 Twp: 2N Range: 66W

Insp. Date	Doc Num	Insp. Type	Insp Status	Satisfactory /Action Required	PA P/F/I	Pas/Fail (P/F)	Violation (Y/N)
01/06/2015	671103267	DG	PR	ACTION REQUIRED			No

Inspector Comment:

Related Facilities:

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	Insp Status	
243637	WELL	PR	04/26/1985	GW	123-11429	MUMBY STATE 1	PR	X
436667	WELL	PR	02/06/2015	OW	123-39214	Mumby State 4D-36H P266	PR	X
436668	WELL	PR	02/06/2015	OW	123-39215	Mumby State 4H-36H P266	PR	X
436669	WELL	PR	02/06/2015	OW	123-39216	Mumby State 4E-36H P266	PR	X
436670	WELL	PR	02/06/2015	OW	123-39217	Mumby State 4F-36H P266	PR	X
436671	WELL	PR	02/06/2015	OW	123-39218	Mumby State 4G-36H P266	PR	X
436672	WELL	PR	02/06/2015	OW	123-39219	Mumby State 4C-36H P266	PR	X
436673	WELL	PR	02/06/2015	OW	123-39220	Mumby State 4B-36H P266	PR	X
436677	WELL	PR	02/06/2015	OW	123-39222	Mumby State 4A-36H P266	PR	X

Equipment: Location Inventory

Inspector Name: Rickard, Jeff

Special Purpose Pits:		Drilling Pits:		Wells:	9	Production Pits:	
Condensate Tanks:	24	Water Tanks:	4	Separators:	9	Electric Motors:	
Gas or Diesel Mortors:		Cavity Pumps:		LACT Unit:		Pump Jacks:	
Electric Generators:		Gas Pipeline:		Oil Pipeline:		Water Pipeline:	
Gas Compressors:		VOC Combustor:	12	Oil Tanks:		Dehydrator Units:	
Multi-Well Pits:		Pigging Station:		Flare:		Fuel Tanks:	

Location

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

Comment:

Corrective Action:

Spills:				
Type	Area	Volume	Corrective action	CA Date

☐ Multilple Spills and Releases?

Venting:	
Yes/No	Comment

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

Predrill

Location ID: 436671

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
Drilling/Completion Operations	Backup stabbing valves shall be required on well servicing operations during reverse circulation. Valves shall be pressure tested before each well servicing operation using both low-pressure air and high-pressure fluid.
Traffic control	After meetings with the surrounding Building Unit Owners, a request was made for the speed limit to be reduced on County Road 37 and "Children At Play" signs to be installed. Encana does not have jurisdiction over County Roads, however, we are working with Weld County to see if they will implement these requests. Nothing has been agreed upon at this time but Weld County is aware of these concerns.
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. If low frequency noise is a concern, measurement of dBC will be taken 25 feet from the occupied structure towards the noise source.

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 800-5 C.
Material Handling and Spill Prevention	Encana's Leak Detection Program: • 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)
Planning	The proposed location will be consolidated with an existing location, ID #319537, that contains the Mumby State #1, API #05-123-11429. The existing tanks for the Mumby State #1 will be moved and placed in the proposed facilities area. The facilities area was designated per the surface owner's request.
Construction	Encana will install fencing to restrict access to wellheads and equipment.
Construction	The pad will be constructed in such a manner that noise mitigation may be installed and removed without disturbing the site or landscaping.
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. Temporary flowback flaring an doxidizing equipment will include: adequeately 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	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	Prior to drilling operations, Operator will perform an anti-collision scan of existing offset wells that have the potential of being within close proximity of the proposed well. This anti-collision scan will include definitive MWD or gyro surveys of the offset wells with included error of uncertainty per survey instrument, and compared against the proposed wellpath with its respective error of uncertainty. If current surveys do not exist for the offset wells, Operator may have gyro surveys conducted to verify bottomhole location. The proposed well will only be drilled if the anti-collision scan results indicate that there is not a risk for collision, or harm to people or the environment. For the proposed well, upon conclusion of drilling operations, an as-constructed gyro survey will be submitted to COGCC with the Form 5.
Dust control	Per meetings with the surrounding Building Unit Owners, Encana will work with Weld County to reduce dust caused by our increased truck traffic. Encana will use mag chloride, install crushed concrete on the access road and use street sweepers if necessary.
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	Subject pad will have all weather access roads to allow for operator and emergency response.

Drilling/Completion Operations	Upon initial rig-up and at least once every thirty (30) days during drilling operations thereafter, pressure testing of the casing string and each component of the blowout prevention equipment including flange connections will be performed to seventy percent (70%) of working pressure or seventy percent (70%) of the internal yield of casing, whichever is less. Pressure testing shall be conducted and the documented results will be retained by the operator for inspection by the Director for a period of one (1) year. Activation of the pipe rams for function testing shall be conducted on a daily basis when practicable.
Noise mitigation	The subject location will be constructed to allow potential future noise mitigation installation without disturbance.
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.
Pre-Construction	Prior to construction, Encana will write a "Risk Assessment Needs Determination" document to analyze the site for any other potential mitigation measures that might be needed.
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.
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.
Noise mitigation	Per meetings with the surrounding Building Unit Owners, Encana will install 32' temporary sound walls on this location through drilling and completion operations.
Drilling/Completion Operations	Encana will utilize a closed-loop system for drilling operations at this location. Encana will not utilize pits.
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.
Construction	Encana utilizes 48” 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.

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:

Landman Name: Phone Number:

Date Onsite Request Received: Date of Rule 306 Consultation:

Inspector Name: Rickard, Jeff

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: 243637 Type: WELL API Number: 123-11429 Status: PR Insp. Status: PR

Producing Well

Comment: PR

BradenHead

Comment: Braden head is exposed at surface.

CA:

CA Date:

Facility ID: 436667 Type: WELL API Number: 123-39214 Status: PR Insp. Status: PR

Producing Well

Comment: PR

Workover

Comment: Braden head is exposed at surface.

Facility ID: 436668 Type: WELL API Number: 123-39215 Status: PR Insp. Status: PR

Producing Well

Comment: PR

Workover

Comment: Braden head is exposed at surface.

Facility ID: 436669 Type: WELL API Number: 123-39216 Status: PR Insp. Status: PR

Producing Well

Comment: PR

Workover

Comment: Braden head is exposed at surface.

Facility ID: 436670 Type: WELL API Number: 123-39217 Status: PR Insp. Status: PR

Producing Well

Comment: PR

Workover

Comment: Braden head is exposed at surface.

Facility ID: 436671 Type: WELL API Number: 123-39218 Status: PR Insp. Status: PR

Producing Well

Comment: PR

Workover

Comment: Braden head is exposed at surface.

Facility ID: 436672 Type: WELL API Number: 123-39219 Status: PR Insp. Status: PR

Producing Well

Comment: PR

Workover

Comment: Braden head is exposed at surface.

Facility ID: 436673 Type: WELL API Number: 123-39220 Status: PR Insp. Status: PR

Producing Well

Comment: PR

Workover

Comment: Braden head is exposed at surface.

Facility ID: 436677 Type: WELL API Number: 123-39222 Status: PR Insp. Status: PR

Producing Well

Comment: PR

Workover

Comment: Braden head is exposed at surface.

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): Y

Comment: _____

Pilot: ON Wildlife Protection Devices (fired vessels): YES

Reclamation - Storm Water - Pit

Interim Reclamation:

Date Interim Reclamation Started: _____ Date Interim Reclamation Completed: _____

Inspector Name: Rickard, Jeff

Land Use: HAY MEADOW, OTHER

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? Pass CM _____

CA _____ CA Date _____

Guy line anchors marked? _____ CM _____

CA _____ CA Date _____

1003b. Area no longer in use? In Production areas stabilized ? Pass

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: HAY MEADOW, OTHER

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 _____

Inspector Name: Rickard, Jeff

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					
Rip Rap	Pass					

S/A/V: SATISFACTORY Corrective Date: _____

Comment:

CA:

Pits: ☐ NO SURFACE INDICATION OF PIT