FORM INSP Rev 05/11

# State of Colorado
# Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203
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| DE | ET | OE | ES |
|---|---|---|---|
| | | | |

Inspection Date: 01/30/2015

Document Number: 673801729

Overall Inspection: SATISFACTORY

## FIELD INSPECTION FORM

| Location Identifier | Facility ID | Loc ID | Inspector Name: | On-Site Inspection | 2A Doc Num: |
|---|---|---|---|---|---|
| | 432004 | 432004 | Gomez, Jason | ☐ | |

**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 |
|---|---|---|---|
| Kulmann, Dave | | dave.kulmann@state.co.us | |
| , | | cogcc.djinspections@encana.com | Group email |

**Compliance Summary:**

QtrQtr: NWSW Sec: 18 Twp: 3N Range: 68W

**Inspector Comment:**

**Related Facilities:**

| Facility ID | Type | Status | Status Date | Well Class | API Num | Facility Name | Insp Status | |
|---|---|---|---|---|---|---|---|---|
| 432001 | WELL | DG | 10/10/2014 | LO | 123-36889 | Billings 3E-18H L368 | DG | X |
| 432002 | WELL | DG | 10/10/2014 | LO | 123-36890 | Billings 3D-18H L368 | DG | X |
| 432003 | WELL | DG | 10/09/2014 | LO | 123-36891 | Billings 3F-18H L368 | DG | X |
| 432005 | WELL | DG | 10/08/2014 | LO | 123-36892 | Billings 3H-18H L368 | DG | X |
| 432006 | WELL | DG | 10/01/2014 | LO | 123-36893 | Billings 3G-18H L368 | DG | X |
| 432160 | WELL | DG | 10/11/2014 | LO | 123-36982 | Billings 3B-18H L368 | DG | X |
| 432161 | WELL | DG | 10/11/2014 | LO | 123-36983 | Billings 3A-18H L368 | DG | X |
| 432162 | WELL | DG | 10/10/2014 | LO | 123-36984 | Billings 3C-18H L368 | DG | X |

**Equipment:** Location Inventory

Inspector Name: Gomez, Jason

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Special Purpose Pits: | | Drilling Pits: | | Wells: | 8 | Production Pits: | |
| Condensate Tanks: | | Water Tanks: | | Separators: | | Electric Motors: | |
| Gas or Diesel Mortors: | | 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/A/V): SATISFACTORY

Corrective Date:

Comment:

Corrective Action:

**Spills:**

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

☐ Multilple Spills and Releases?

**Venting:**

| Yes/No | Comment |
|---|---|
| NO | |

**Flaring:**

| Type | Satisfactory/Action Required | Comment | Corrective Action | CA Date |
|---|---|---|---|---|
| | | | | |

## Predrill

Location ID: 432004

**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 | The rig that will drill the wells at this location is without kelly. A double ram with blind ram and pipe ram as well as an annular preventer will be used. At least one person at the well site during drilling operations will have the Mineral Management certification or Director approved training for blowout prevention. |
| Construction | This location will be constructed in such a manner that noise mitigation may be installed and removed without disturbing the site or landscaping. |

| | |
|---|---|
| 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. |
| Emissions mitigation | 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 |
| Noise mitigation | Encana will construct the subject location to allow potential future noise mitigation installation without disturbance. |
| 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. |
| Pre-Construction | Prior to construction, Encana will write a "Risk Assessment Need Determination" to identify any further mitigation measures that will be needed for this location that meet Encana's Best Managment Practices. |
| 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, we will measure dBC at 25 feet from the occupied structure towards the noise source. As necessary based on the survey, we will install temporary sound walls to minimize noise and light impacts during drilling and completions. |
| 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 wellheads. |
| 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. |
| 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 will 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 will be conducted on a daily basis when practicable. |
| Traffic control | At this time, Weld County does not require traffic control plans. Encana has already obtained the necessary access permit for this location through the county. |
| Drilling/Completion Operations | Adequate blowout prevention equipment will be used on all well servicing operations. Backup stabbing valves will be used on well servicing operations during reverse circulation. Valves will be pressure tested before each well servicing operation using both low-pressure air and high-pressure fluid. |
| General Housekeeping | Encana will maintain the site so that all surface trash, debris, scrap or discarded material connected with the operations of the property will be removed from the premises or disposed of in a legal manner. |
| Drilling/Completion Operations | Encana will utilize a closed-loop system for drilling operations at this location. Encana will not utilize pits. |

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

Inspector Name: Gomez, Jason

**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:

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: 432001 Type: WELL API Number: 123-36889 Status: DG Insp. Status: DG

### Well Stimulation

Stimulation Company: BWS Stimulation Type: HYDRAULIC FRAC

**Observation:** Other:

Maximum Casing Recorded: PSI Tubing:

Surface: Intermediate:

Production: Instantaneous Shut-In Pressure (ISIP)

Bradenhead Psi: Frac Flow Back: Fluid: Gas:

Facility ID: 432002 Type: WELL API Number: 123-36890 Status: DG Insp. Status: DG

### Well Stimulation

Stimulation Company: BWS Stimulation Type: HYDRAULIC FRAC

**Observation:** Other:

Maximum Casing Recorded: PSI Tubing:

Surface: Intermediate:

Production: Instantaneous Shut-In Pressure (ISIP)

Bradenhead Psi: Frac Flow Back: Fluid: Gas:

Facility ID: 432003 Type: WELL API Number: 123-36891 Status: DG Insp. Status: DG

**Well Stimulation**

Stimulation Company: BWS | Stimulation Type: HYDRAULIC FRAC

**Observation:** | Other:

Maximum Casing Recorded: PSI | Tubing:

Surface: | Intermediate:

Production: | Instantaneous Shut-In Pressure (ISIP):

Bradenhead Psi: | Frac Flow Back: | Fluid: | Gas:

Facility ID: 432005 Type: WELL API Number: 123-36892 Status: DG Insp. Status: DG

**Well Stimulation**

Stimulation Company: BWS | Stimulation Type: HYDRAULIC FRAC

**Observation:** | Other:

Maximum Casing Recorded: PSI | Tubing:

Surface: | Intermediate:

Production: | Instantaneous Shut-In Pressure (ISIP):

Bradenhead Psi: | Frac Flow Back: | Fluid: | Gas:

Facility ID: 432006 Type: WELL API Number: 123-36893 Status: DG Insp. Status: DG

**Well Stimulation**

Stimulation Company: BWS | Stimulation Type: HYDRAULIC FRAC

**Observation:** | Other:

Maximum Casing Recorded: PSI | Tubing:

Surface: | Intermediate:

Production: | Instantaneous Shut-In Pressure (ISIP):

Bradenhead Psi: | Frac Flow Back: | Fluid: | Gas:

Facility ID: 432160 Type: WELL API Number: 123-36982 Status: DG Insp. Status: DG

**Complaint**

Comment:

Complaint # 200422153

Date Complaint Received: 1-30-2015

Location Inspected: Billings Location

Inspection Document # 673801729
Complainant: Sarah Sharp
Phone: 303-485-6414
Address: 161 Henson Drive Longmont CO, 80504

Nature of Complaint: Noise

Field Inspector Assigned: Jason E. Gomez
Field Inspection Actions:
On 1-30-2015 I returned the complainants home to perform a sound study to check on the noise levels coming from the frac operation located at the Encana Billings location. I set up my sound equipment next to the independent sound study equipment being performed by Encana. I set my equipment of the north side of the complainants home approx 25' from the residence. During the 1hr long sound study the winds were between 0 to 4 mph out of the west. The results of the sound study were attached to the site inspection Doc#673801729. I also received a copy of the Independent sound study results from Encan which are also attached to Doc # 673801729. As a result of both the COGCC sound study and the independent sound study from Encana it was found that the frac operation at the Billings location was operating within the limits of the COGCC at this time.

Inspector Name: Gomez, Jason

**Well Stimulation**

Stimulation Company: BWS | Stimulation Type: HYDRAULIC FRAC

**Observation:** | Other:

Maximum Casing Recorded: PSI | Tubing:

Surface: | Intermediate:

Production: | Instantaneous Shut-In Pressure (ISIP):

Bradenhead Psi: | Frac Flow Back: | Fluid: | Gas:

Facility ID: 432161 Type: WELL API Number: 123-36983 Status: DG Insp. Status: DG

**Well Stimulation**

Stimulation Company: BWS | Stimulation Type: HYDRAULIC FRAC

**Observation:** | Other:

Maximum Casing Recorded: PSI | Tubing:

Surface: | Intermediate:

Production: | Instantaneous Shut-In Pressure (ISIP):

Bradenhead Psi: | Frac Flow Back: | Fluid: | Gas:

Facility ID: 432162 Type: WELL API Number: 123-36984 Status: DG Insp. Status: DG

**Well Stimulation**

Stimulation Company: BWS | Stimulation Type: HYDRAULIC FRAC

**Observation:** | Other:

Maximum Casing Recorded: PSI | Tubing:

Surface: | Intermediate:

Production: | Instantaneous Shut-In Pressure (ISIP):

Bradenhead Psi: | Frac Flow Back: | Fluid: | Gas:

**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):

Inspector Name: Gomez, Jason

## Reclamation - Storm Water - Pit

**Interim Reclamation:**

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

Land Use: DRY LAND

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: DRY LAND

Reminder: _____

Comment:

Well plugged _____ Pit mouse/rat holes, cellars backfilled _____

Debris removed _____ No disturbance /Location never built _____

Access Roads Regraded _____ Contoured _____ Culverts removed _____

Inspector Name: Gomez, Jason

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 |
|---|---|---|---|---|---|---|
| Berms | Pass | Berms | Pass | VT | Pass | |
| Ditches | Pass | Ditches | Pass | | | |
| Waddles | Pass | Waddles | 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 |
|---|---|---|
| 673801730 | COGCC Sound Study | http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3542617 |
| 673801731 | Independent Sound Study | http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3542618 |