

State of Colorado
Oil and Gas Conservation Commission

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DE	ET	OE	ES
Document Number: 401737173			
Date Received: 08/22/2018			

SUNDRY NOTICE

Submit a signed original. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full in Comments or provide as an attachment. Identify Well by API Number; identify Oil and Gas Location by Location ID Number; identify other Facility by Facility ID Number.

OGCC Operator Number: 10459 Contact Name Christopher Simmons
 Name of Operator: EXTRACTION OIL & GAS INC Phone: (720) 9747789
 Address: 370 17TH STREET SUITE 5300 Fax: ()
 City: DENVER State: CO Zip: 80202 Email: csimmons@extractionog.com

Complete the Attachment
Checklist

OP OGCC

API Number : 05- 001 00 OGCC Facility ID Number: 438997
 Well/Facility Name: DUCK CLUB PAD Well/Facility Number: _____
 Location QtrQtr: SWSE Section: 12 Township: 1S Range: 66W Meridian: 6
 County: ADAMS Field Name: WATTENBERG
 Federal, Indian or State Lease Number: _____

Survey Plat		
Directional Survey		
Srvc Eqpmt Diagram		
Technical Info Page		
Other		

CHANGE OF LOCATION OR AS BUILT GPS REPORT

- Change of Location * As-Built GPS Location Report As-Built GPS Location Report with Survey

* Well location change requires new plat. A substantive surface location change may require new Form 2A.

SURFACE LOCATION GPS DATA Data must be provided for Change of Surface Location and As Built Reports.

Latitude _____ PDOP Reading _____ Date of Measurement _____
 Longitude _____ GPS Instrument Operator's Name _____

LOCATION CHANGE (all measurements in Feet)

Well will be: _____ (Vertical, Directional, Horizontal)

Change of **Surface** Footage **From** Exterior Section Lines:

Change of **Surface** Footage **To** Exterior Section Lines:

Current **Surface** Location **From** QtrQtr SWSE Sec 12

New **Surface** Location **To** QtrQtr _____ Sec _____

Change of **Top of Productive Zone** Footage **From** Exterior Section Lines:

Change of **Top of Productive Zone** Footage **To** Exterior Section Lines:

Current **Top of Productive Zone** Location **From** Sec _____

New **Top of Productive Zone** Location **To** Sec _____

Change of **Bottomhole** Footage **From** Exterior Section Lines:

Change of **Bottomhole** Footage **To** Exterior Section Lines:

Current **Bottomhole** Location Sec _____ Twp _____

New **Bottomhole** Location Sec _____ Twp _____

Is location in High Density Area? _____

Distance, in feet, to nearest building _____, public road: _____, above ground utility: _____, railroad: _____,

property line: _____, lease line: _____, well in same formation: _____

Ground Elevation _____ feet Surface owner consultation date _____

FNL/FSL		FEL/FWL	
<u>240</u>	<u>FSL</u>	<u>2407</u>	<u>FEL</u>
_____	_____	_____	_____
Twp <u>1S</u>	Range <u>66W</u>	Meridian <u>6</u>	
Twp _____	Range _____	Meridian _____	
_____	_____	_____	_____
_____	_____	_____	_____
Twp _____	Range _____		
Twp _____	Range _____		
_____	_____	_____	_____
_____	_____	_____	_____

**

**

** attach deviated drilling plan

OTHER CHANGES

REMOVE FROM SURFACE BOND Signed surface use agreement is a required attachment

CHANGE OF WELL, FACILITY OR OIL & GAS LOCATION NAME OR NUMBER

From: Name DUCK CLUB PAD Number _____ Effective Date: _____

To: Name _____ Number _____

ABANDON PERMIT: Permit can only be abandoned if the permitted operation has NOT been conducted. Field inspection will be conducted to verify site status.

WELL: Abandon Application for Permit-to-Drill (Form2) – Well API Number _____ has not been drilled.

PIT: Abandon Earthen Pit Permit (Form 15) – COGCC Pit Facility ID Number _____ has not been constructed (Permitted and constructed pit requires closure per Rule 905)

CENTRALIZED E&P WASTE MANAGEMENT FACILITY: Abandon Centralized E&P Waste Management Facility Permit (Form 28) – Facility ID Number _____ has not been constructed (Constructed facility requires closure per Rule 908)

OIL & GAS LOCATION ID Number: _____

Abandon Oil & Gas Location Assessment (Form 2A) – Location has not been constructed and site will not be used in the future.

Keep Oil & Gas Location Assessment (Form 2A) active until expiration date. This site will be used in the future.

Surface disturbance from Oil and Gas Operations must be reclaimed per Rule 1003 and Rule 1004.

REQUEST FOR CONFIDENTIAL STATUS

DIGITAL WELL LOG UPLOAD

DOCUMENTS SUBMITTED Purpose of Submission: _____

RECLAMATION

INTERIM RECLAMATION

Interim Reclamation will commence approximately _____

Per Rule 1003.e.(3) operator shall submit Sundry Notice reporting interim reclamation is complete and site is ready for inspection when vegetation reaches 80% coverage.

Interim reclamation complete, site ready for inspection.

Per Rule 1003.e(3) describe interim reclamation procedure in Comments below or provide as an attachment and attach required location photographs.

Field inspection will be conducted to document Rule 1003.e. compliance

FINAL RECLAMATION

Final Reclamation will commence approximately _____

Per Rule 1004.c.(4) operator shall submit Sundry Notice reporting final reclamation is complete and site is ready for inspection when vegetation reaches 80% coverage.

Final reclamation complete, site ready for inspection. Per Rule 1004.c(4) describe final reclamation procedure in Comments below or provide as an attachment.

Field inspection will be conducted to document Rule 1004.c. compliance

Comments:

ENGINEERING AND ENVIRONMENTAL WORK

NOTICE OF CONTINUED TEMPORARILY ABANDONED STATUS

Indicate why the well is temporarily abandoned and describe future plans for utilization in the COMMENTS box below or provide as an attachment, as required by Rule 319.b.(3).

Date well temporarily abandoned _____ Has Production Equipment been removed from site? _____

Mechanical Integrity Test (MIT) required if shut in longer than 2 years. Date of last MIT _____

SPUD DATE: _____

TECHNICAL ENGINEERING AND ENVIRONMENTAL WORK

Details of work must be described in full in the COMMENTS below or provided as an attachment.

NOTICE OF INTENT Approximate Start Date _____

REPORT OF WORK DONE Date Work Completed _____

- Intent to Recomplete (Form 2 also required)
- Request to Vent or Flare
- E&P Waste Mangement Plan
- Change Drilling Plan
- Repair Well
- Beneficial Reuse of E&P Waste
- Gross Interval Change
- Rule 502 variance requested. Must provide detailed info regarding request.
- Other _____
- Status Update/Change of Remediation Plans for Spills and Releases

COMMENTS:

H2S REPORTING

Data Fields in this section are intended to document Sample and Location Data associated with the collection of a Gas Sample that is submitted for Laboratory Analysis.

Gas Analysis Report must be attached.

H2S Concentration: _____ in ppm (parts per million) Date of Measurement or Sample Collection _____

Description of Sample Point:

Absolute Open Flow Potential _____ in CFPD (cubic feet per day)

Description of Release Potential and Duration (If flow is not open to the atmosphere, identify the duration in which the container or pipeline would likely be opened for servicing operations.):

Distance to nearest occupied residence, school, church, park, school bus stop, place of business, or other areas where the public could reasonably be expected to frequent: _____

Distance to nearest Federal, State, County, or municipal road or highway owned and principally maintained for public use: _____

COMMENTS:

Best Management Practices

No	<u>BMP/COA Type</u>	<u>Description</u>
1	Planning	Per COGCC Rule 318A (f), Initial baseline samples and a subsequent monitoring sample shall be collected from one (1) Available Water Source in the governmental quarter section in which a new Oil and Gas Well, the first well on a Multi-Well Site, or a Dedicated Injection Well is located. If a sampling location has previously been established within the governmental quarter section and sampled within the prior sixty (60) months before spudding, no initial baseline sample is required. If there is no Available Water Source within the governmental quarter section where a proposed new Oil and Gas Well, Multi-Well Site, or Dedicated Injection Well is located, then an Available Water Source from a previously unsampled governmental quarter section within a 1/2-mile radius of the Oil and Gas well, Multi-Well Site, or Dedicated Injection Well, if any, shall be sampled. Once a sample location is established in a governmental quarter section, no additional sample locations are required for that governmental quarter section. Initial sampling shall be conducted within 12 months prior to setting conductor pipe in an Oil and Gas Well or the first well on a Multi-Well Site. One subsequent sampling event shall be conducted at the initial (or previously established) sample location between six (6) and twelve (12) months following completion of the Well or Dedicated Injection Well, or the last Well on a Multi-Well Site.
2	Planning	All long-term facility structures will be painted a color that enables the facilities to blend in with the natural background color of the landscape, as seen from a viewing distance and location typically used by the public
3	Planning	The water that we use in our operations is specifically augmented for industrial use. We secure independent water supplies that do not compete with agriculture, municipal or domestic supplies, recreation, or the natural environment. We provide the Colorado State Engineer with detailed accounting and reporting of our water use and meet or exceed all relevant Colorado water law and regulations. We are also a member of SPWRAP (South Platte Water Related Activities Program) to ensure users of water in the South Platte watershed have adequate supply.
4	Planning	A meeting with the surface owner will determine a fencing plan. The location will be adequately fenced to restrict access by unauthorized persons.
5	Planning	Through mutual site specific conversation between East Cherry Creek Valley Water and Sanitation District (ECCV) and Extraction Oil & Gas, Inc. (Extraction), Extraction, at its own expense and volition will install four 2-inch monitoring wells on the Duck Club pad. Installation of these monitoring wells is based on private negotiations that Extraction voluntarily conducted with ECCV, separate from Colorado Oil and Gas Conservation Commission (COGCC) rules and regulations.
6	Planning	Generally, screening shall defer to surface owner request and city specific zoning. All tanks on site must be no taller than 12.5 feet.
7	General Housekeeping	Trash Removal: All trash, debris and material not intrinsic to the operation of the oil and gas facility shall be removed and legally disposed of as applicable. Maintain appearance with garbage clean-up; a trash bin will be located on site to accumulate waste by the personnel drilling the wells. Site will have unused equipment, trash and junk removed immediately.
8	General Housekeeping	Light sources during all phases of operations will be directed downwards and away from occupied structures and E470, where possible. Permanent lighting shall be mounted at compressor stations on a pole or building and directed downward to illuminate key areas within the facility, while minimizing the amount of light projected outside the facility.
9	General Housekeeping	Permanent lighting will be installed around the facility to allow both the operator and haulers to conduct safe operations at night. All lights will be directed down toward the location or shielded so no light pollution leaves the facility.

10	Storm Water/Erosion Control	Extraction O&G will implement and maintain BMPs to control storm water runoff in a manner that minimizes erosion, transport of sediment offsite, and site degradation. Co-locate flowlines and/or gathering lines whenever feasible and mitigate any erosion problems that arise due to the construction of any pipeline(s). Location will be covered under Extraction Oil & Gas's field wide permit, permit number COR03M013. Typical storm water BMPs installed will include a diversion ditch and berm with sediment traps and installation of wattles where necessary.
11	Material Handling and Spill Prevention	Tank Specifications: Tanks will be designed, constructed and maintained in accordance with NFPA Code 30 (2008 version). All tanks are visually inspected by the operator weekly at a minimum to a maximum of daily and annual SPCC inspections will be conducted and documented. Inspection and record retention of tank inspections will be in accordance per SPCC regulation. All records will be made available to the COGCC upon request. Leak Detention Plan: Operator will monitor production facilities weekly at a minimum to a maximum of daily to identify fluid leaks, including, but not limited to, visually inspecting all wellheads, tanks and fittings.
12	Material Handling and Spill Prevention	Berm construction. Tank berms shall be constructed of steel rings with a synthetic or engineered liner and designed to contain 150% of the capacity of the largest tank. All berms will be visually checked weekly at a minimum to a maximum of daily to ensure proper working condition. Secondary containment devices shall be sufficiently impervious to contain any spilled or released material. No potential ignition sources shall be installed inside the secondary containment area unless the containment area encloses a fired vessel. The eastern side of the site is where the FEMA flood zone is present. There will be a stormwater retention ditch, sediment trap, and tertiary berms installed on the opposite side of the ditch to protect the flood zone from any surficial pollutants.
13	Dust control	Extraction O&G shall employ practices for control of fugitive dust caused by their operations. Such practices shall include but are not limited to the use of speed restrictions, regular road maintenance, restriction of construction activity during high-wind days, and silica dust controls when handling sand used in hydraulic fracturing operations. Additional management practices such as road surfacing, wind breaks and barriers may be used.
14	Dust control	Silica dust from sand used during hydraulic fracturing will be minimized through use of "Sandbox" proppant delivery process, or equivalent system. If necessary, silica dust will be contained using a dust suppression vacuum system.
15	Construction	The access road will be constructed to accommodate local emergency vehicles. This road will be maintained for access at all times. Traffic will be routed to minimize local interruption. Additionally, the access road will be constructed with aggregate road base material and vehicle speeds will be limited to ten miles per hour to reduce dust.
16	Construction	This will be a multi-well pad, located in a manner which allows for the greatest distances possible from building units. Refer to Condor location drawing for specific distances.
17	Noise mitigation	Extraction will comply with COGCC Rule 802.b regarding maximum permissible noise levels.
18	Noise mitigation	Baseline noise monitoring and testing will be conducted prior to commencement of pad construction. Additional sound mitigation measures will be considered and implemented pursuant to third party recommendations. All noise survey data will be made available to the COGCC inspector upon request.
19	Noise mitigation	During drilling and completion activities, onsite equipment shall be positioned to take full advantage of the sound mitigation measures provided by well pad grading, surrounding topography, and nearby roadways. Extraction will implement necessary mitigation measures to ensure compliance with allowable noise levels.
20	Emissions mitigation	Green Completions - Emission Control System. Test separators and associated flow lines and sand traps shall be installed on-site to accommodate green completions techniques pursuant to COGCC Rules.
21	Emissions mitigation	There will be no flaring or venting of gas upon completion unless there are upset or emergency conditions, or unless there is prior approval from the Director for necessary maintenance conditions.

22	Emissions mitigation	Per Colorado Dept of Public Health and Environment - Regulation 7, Section XVII, Extraction O&G's Leak Detection and Repair (LDAR) program will include monthly inspection of above ground flowlines and piping with an infra-red camera. This frequency may be reduced as production declines. If identified, hydrocarbon leaks are tagged and repaired accordingly: a first attempt of repair will be made within the first five days, and thereafter will be cleared or repaired on the next scheduled shutdown. Whenever any condition that could adversely affect the safe and proper operation of the facility is discovered, it will be addressed immediately. If at any time, the condition is of such a nature that it presents an immediate hazard to persons or property, the affected part of the system shall not be operated until the unsafe condition has been corrected. Additionally, inspections will be completed monthly, if not more frequently, as part of Extraction's internal Audio, Visual, and Olfactory (AVO) Monitoring Program. Records of the AVO inspections will be maintained through Extraction's field data capture software. In the event that a leak is identified, reporting and repair will be initiated through Extraction's internal process.
23	Odor mitigation	Oil & gas facilities and equipment shall be operated in such a manner that odors do not constitute a nuisance or hazard to public welfare. Operator will utilize advanced oil-based mud systems which target the reduction of aromatics.
24	Drilling/Completion Operations	Extraction O & G will be utilizing a closed loop system. All cuttings and waste fluids will be trucked to an offsite permitted disposal facility.
25	Drilling/Completion Operations	The location will be automated to monitor all production operations remotely. In the event the facility is not operating under normal conditions, the automation system will immediately notify the operator. The automation system also has the ability to remotely perform an emergency shut down if necessary.
26	Drilling/Completion Operations	In accordance with COGCC Rule 205A, within 60 days following the conclusion of a hydraulic fracturing treatment of an oil and gas well, and in no case later than 120 days after the commencement of such hydraulic fracturing treatment, Extraction O&G will complete the COGCC-required chemical disclosure registry form and post the form on the chemical disclosure registry, including the date of the hydraulic fracturing treatment, the API number for the well, the well name and number, the longitude and latitude of the wellhead, the total volume of water used in the hydraulic fracturing treatment of the well or the type and total volume of the base fluid used in the hydraulic fracturing treatment, if something other than water, each hydraulic fracturing additive used in the hydraulic fracturing fluid and the trade name, vendor, and a brief descriptor of the intended use or function of each hydraulic fracturing additive in the hydraulic fracturing fluid, each chemical intentionally added to the base fluid, the maximum concentration, in percent by mass, of each chemical intentionally added to the base fluid, and the chemical abstract service number for each chemical intentionally added to the base fluid, if applicable. Unless the information is entitled to protection as a trade secret, information submitted to the Commission or posted to the chemical disclosure registry is public information. The chemical disclosure registry shall allow the Commission staff and the public to search and sort the registry for Colorado information by geographic area, ingredient, chemical abstract service number, time period, and operator.
27	Interim Reclamation	Extraction will segregate the topsoil, backfilling, re-compacting, reseeding, and re-contouring the surface of any disturbed area so as not to interfere with Surface Owner's operations and shall reclaim such area to be returned to pre-existing conditions as best as possible with control of all noxious weeds in accordance with COGCC Rules.

Total: 27 comment(s)

Operator Comments:

[Empty box for operator comments]

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: _____ Print Name: Christopher Simmons
Title: Regulatory Project Manage _____ Email: csimmons@extractionog.com Date: 8/22/2018

Based on the information provided herein, this Sundry Notice (Form 4) complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: Housey, Melissa _____ Date: 9/11/2018

CONDITIONS OF APPROVAL, IF ANY:

COA Type

Description

COA Type	Description

General Comments

User Group

Comment

Comment Date

Routing Review	A task has been opened for the Regional OGLA Specialist to review the information provided by the operator.	08/23/2018
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Total: 1 comment(s)

Attachment Check List

Att Doc Num

Name

401737173	SUNDRY NOTICE APPROVED
401759870	FORM 4 SUBMITTED

Total Attach: 2 Files