


FORM 2 Rev 08/16	State of Colorado Oil and Gas Conservation Commission 1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109		Document Number: 401303149 (REJECTED) Date Received: 10/18/2017																																						
APPLICATION FOR PERMIT TO:																																									
<input checked="" type="checkbox"/> Drill <input type="checkbox"/> Deepen <input type="checkbox"/> Re-enter <input type="checkbox"/> Recomplete and Operate																																									
TYPE OF WELL OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> COALBED <input type="checkbox"/> OTHER _____			Refiling <input type="checkbox"/>																																						
ZONE TYPE SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONES <input type="checkbox"/> COMMINGLE ZONES <input type="checkbox"/>			Sidetrack <input type="checkbox"/>																																						
Well Name: <u>Postle IC</u>		Well Number: <u>09-179HN</u>																																							
Name of Operator: <u>GREAT WESTERN OPERATING COMPANY LLC</u>		COGCC Operator Number: <u>10110</u>																																							
Address: <u>1801 BROADWAY #500</u>																																									
City: <u>DENVER</u>		State: <u>CO</u> Zip: <u>80202</u>																																							
Contact Name: <u>Miracle Pfister</u>		Phone: <u>(303)398-0550</u> Fax: ()																																							
Email: <u>regulatorypermitting@gwogco.com</u>																																									
RECLAMATION FINANCIAL ASSURANCE Plugging and Abandonment Bond Surety ID: <u>20160041</u>																																									
WELL LOCATION INFORMATION QtrQtr: <u>SWNW</u> Sec: <u>11</u> Twp: <u>3N</u> Rng: <u>68W</u> Meridian: <u>6</u> Latitude: <u>40.243706</u> Longitude: <u>-104.977897</u> <table style="width:100%; border: none;"> <tr> <td style="text-align: center;">Footage at Surface:</td> <td style="text-align: center;"><u>1555</u></td> <td style="text-align: center;">Feet</td> <td style="text-align: center;">FNL/FSL</td> <td style="text-align: center;"><u>526</u></td> <td style="text-align: center;">Feet</td> <td style="text-align: center;">FEL/FWL</td> </tr> <tr> <td></td> <td style="text-align: center;"><u>FNL</u></td> <td></td> <td style="text-align: center;"><u>FNL</u></td> <td style="text-align: center;"><u>526</u></td> <td></td> <td style="text-align: center;"><u>FWL</u></td> </tr> </table> Field Name: <u>WATTENBERG</u> Field Number: <u>90750</u> Ground Elevation: <u>4977</u> County: <u>WELD</u> GPS Data: Date of Measurement: <u>03/15/2017</u> PDOP Reading: <u>1.8</u> Instrument Operator's Name: <u>CHAD MEIERS</u> If well is <input type="checkbox"/> Directional <input checked="" type="checkbox"/> Horizontal (highly deviated) submit deviated drilling plan. <table style="width:100%; border: none;"> <tr> <td style="text-align: center;">Footage at Top of Prod Zone:</td> <td style="text-align: center;">FNL/FSL</td> <td style="text-align: center;">FEL/FWL</td> <td style="text-align: center;">Bottom Hole:</td> <td style="text-align: center;">FNL/FSL</td> <td style="text-align: center;">FEL/FWL</td> </tr> <tr> <td style="text-align: center;"><u>2255</u></td> <td style="text-align: center;"><u>FNL</u></td> <td style="text-align: center;"><u>310</u></td> <td style="text-align: center;"><u>2270</u></td> <td style="text-align: center;"><u>FNL</u></td> <td style="text-align: center;"><u>370</u></td> </tr> <tr> <td></td> <td style="text-align: center;"><u>FNL</u></td> <td style="text-align: center;"><u>FWL</u></td> <td></td> <td style="text-align: center;"><u>FNL</u></td> <td style="text-align: center;"><u>FWL</u></td> </tr> <tr> <td style="text-align: center;">Sec: <u>11</u></td> <td style="text-align: center;">Twp: <u>3N</u></td> <td style="text-align: center;">Rng: <u>68W</u></td> <td style="text-align: center;">Sec: <u>9</u></td> <td style="text-align: center;">Twp: <u>3N</u></td> <td style="text-align: center;">Rng: <u>68W</u></td> </tr> </table>				Footage at Surface:	<u>1555</u>	Feet	FNL/FSL	<u>526</u>	Feet	FEL/FWL		<u>FNL</u>		<u>FNL</u>	<u>526</u>		<u>FWL</u>	Footage at Top of Prod Zone:	FNL/FSL	FEL/FWL	Bottom Hole:	FNL/FSL	FEL/FWL	<u>2255</u>	<u>FNL</u>	<u>310</u>	<u>2270</u>	<u>FNL</u>	<u>370</u>		<u>FNL</u>	<u>FWL</u>		<u>FNL</u>	<u>FWL</u>	Sec: <u>11</u>	Twp: <u>3N</u>	Rng: <u>68W</u>	Sec: <u>9</u>	Twp: <u>3N</u>	Rng: <u>68W</u>
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LOCATION SURFACE & MINERALS & RIGHT TO CONSTRUCT Surface Ownership: <input checked="" type="checkbox"/> Fee <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Indian The Surface Owner is: <input type="checkbox"/> is the mineral owner beneath the location. (check all that apply) <input type="checkbox"/> is committed to an Oil and Gas Lease. <input type="checkbox"/> has signed the Oil and Gas Lease. <input type="checkbox"/> is the applicant. The Mineral Owner beneath this Oil and Gas Location is: <input checked="" type="checkbox"/> Fee <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Indian The Minerals beneath this Oil and Gas Location will be developed by this Well: <u>Yes</u> The right to construct the Oil and Gas Location is granted by: <u>Surface Use Agreement</u> Surface damage assurance if no agreement is in place: _____ Surface Surety ID: _____																																									

LEASE INFORMATION

Using standard QtrQtr, Sec, Twp, Rng format, describe one entire mineral lease that will be produced by this well (Describe lease beneath surface location if produced. Attach separate description page or map if necessary.)

Irregular mineral lease, please see attached map. The lease is colored pink.

Total Acres in Described Lease: 224 Described Mineral Lease is: Fee State Federal Indian

Federal or State Lease # _____

Distance from Completed Portion of Wellbore to Nearest Lease Line of described lease: 0 Feet

CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 1398 Feet

Building Unit: 1468 Feet

High Occupancy Building Unit: 5280 Feet

Designated Outside Activity Area: 5280 Feet

Public Road: 506 Feet

Above Ground Utility: 465 Feet

Railroad: 307 Feet

Property Line: 354 Feet

INSTRUCTIONS:

- All measurements shall be provided from center of the Proposed Well to nearest of each cultural feature as described in Rule 303.a.(5).

- Enter 5280 for distance greater than 1 mile.

- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.

- Building Unit, High Occupancy Building Unit, and Designated Outside Activity Area - as defined in 100-Series Rules.

DESIGNATED SETBACK LOCATION INFORMATION

Check all that apply. This location is within a: Buffer Zone
 Exception Zone
 Urban Mitigation Area

- Buffer Zone – as described in Rule 604.a.(2), within 1,000' of a Building Unit

- Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit.

- Urban Mitigation Area - as defined in 100-Series Rules.

Pre-application Notifications (required if location is within 1,000 feet of a building unit):

Date of Rule 305.a.(1) Urban Mitigation Area Notification to Local Government: _____

Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: _____

SPACING and UNIT INFORMATION

Distance from completed portion of proposed wellbore to nearest completed portion of offset wellbore permitted or completed in the same formation: 90 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 470 Feet (Enter 5280 for distance greater than 1 mile.)

Federal or State Unit Name (if appl): _____ Unit Number: _____

SPACING & FORMATIONS COMMENTS

Proposed Spacing Unit:
Section 11: W2W2
Section 10: all
Section 9: all

OBJECTIVE FORMATIONS

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
NIOBRARA	NBRR		1440	GWA

DRILLING PROGRAM

Proposed Total Measured Depth: 18199 Feet

Distance from the proposed wellbore to nearest existing or proposed wellbore belonging to another operator, including plugged wells:

Enter distance if less than or equal to 1,500 feet: 258 Feet No well belonging to another operator within 1,500 feet

Will a closed-loop drilling system be used? Yes

Is H₂S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No (If Yes, attach an H₂S Drilling Operations Plan)

Will salt sections be encountered during drilling? No

Will salt based (>15,000 ppm Cl) drilling fluids be used? No

Will oil based drilling fluids be used? Yes

BOP Equipment Type: Annular Preventor Double Ram Rotating Head None

GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 318A

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Methods: Commercial Disposal

Cuttings Disposal: OFFSITE Cuttings Disposal Method: Commercial Disposal

Other Disposal Description:

Beneficial reuse or land application plan submitted? No

Reuse Facility ID: _____ or Document Number: _____

CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
SURF	13+1/2	9+5/8	36	0	1500	624	1500	0
1ST	8+1/2	5+1/2	17	0	18199	2354	18199	0

Conductor Casing is NOT planned

DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

- Rule 604.a.(1)A. Exception Zone (within 500' of Building Unit)
- Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of Rule 604.a.)
- Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)
- Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)
- Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)

GREATER WATTENBERG AREA LOCATION EXCEPTIONS

Check all that apply:

- Rule 318A.a. Exception Location (GWA Windows).
- Rule 318A.c. Exception Location (GWA Twinning).

RULE 502.b VARIANCE REQUEST

Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number _____

OTHER LOCATION EXCEPTIONS

Check all that apply:

- Rule 318.c. Exception Location from Rule or Spacing Order Number _____
- Rule 603.a.(2) Exception Location (Property Line Setback).

ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).

OPERATOR COMMENTS AND SUBMITTAL

Comments

The Postle IC 11-162HN (API# 05-123-39352), operated by Great Western Operating Company LLC, is the nearest well in the same formation. The distance was measured in 3D.

The nearest wellbore belonging to another operator was measured to E.L. Minch #22-9D, (API: [#05-123-33635]), operated by SRC Energy Inc. The distance was measured in 3D. The well status is SI.

The BHL location will be drilled past the 460' setback to 370' FWL, however the deepest perforation will be at 470' from the unit boundary. Great Western affirms it will not complete the wellbore within the 460' boundary setback.

This application is in a Comprehensive Drilling Plan No CDP #: _____

Location ID: 433857

Is this application being submitted with an Oil and Gas Location Assessment application? Yes

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

Signed: _____ Print Name: Christi Ng

Title: Sr. Regulatory Analyst Date: 10/18/2017 Email: cng@gwogco.com

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: _____ Director of COGCC Date: _____

Expiration Date: _____

API NUMBER

05

Conditions Of Approval

All representations, stipulations and conditions of approval stated in the Form 2A for this location shall constitute representations, stipulations and conditions of approval for this Form 2 Permit-to-Drill and are enforceable to the same extent as all other representations, stipulations and conditions of approval stated in this Permit-to-Drill.

COA Type

Description

COA Type	Description

Best Management Practices

No BMP/COA Type

Description

No BMP/COA Type	Description
1 Planning	Drill stem tests (Rule 604.c.(2)L Conventional drill stem tests will not be conducted on DJ Basin horizontal wells currently being executed or planned by GWOC. If plans change in the future a well specific drill stem testing plan will be prepared for that particular well. Note that GWOC may elect to use one of several available wireline deployed tools for the purpose of measuring down hole formation pressures and/or collecting down hole fluid samples from the target formation(s) of a particular well.

2	Planning	<p>Identification of P&A wells (Rule 604.c.(2)U GWOC shall identify the location of the P&A wellbore with a permanent monument as specified in Rule 319.a.(5). The operator shall also inscribe or imbed the well number and date of plugging upon the permanent monument. P&A wellbores shall be cutoff well below ground surface in agricultural areas to provide for landowners to safely farm the reclaimed well area.</p>
3	Drilling/Completion Operations	<p>Green Completions (Rule 604.c.(2)C. As applicable, per COGCC Rule 805, GWOC will utilize all reasonable and cost-efficient best practices, including but not limited to those listed in Rule 805, to maximize resource recovery and mitigate releases to the environment. Initial frac and drill out effluent is routed through a sand catcher/trap and a junk/sand tank to remove sand and well frac debris.</p>
4	Drilling/Completion Operations	<p>Wellbore Collision Prevention – Rule 317.r Prior to drilling operations, GWOG 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 well path with its respective error of uncertainty. If current surveys do not exist for the offset wells, Operator may have gyro surveys conducted to verify bottom hole 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.</p>
5	Drilling/Completion Operations	<p>Stimulation Setback – Rule 317.s GWOG shall obtain signed written consent for any portion of the proposed wellbore's treated interval within 150' of an existing (producing, Shut-in, or temporarily abandoned) or permitted oil and gas well's treated interval belonging to another operator prior to completion of the well.</p>
6	Drilling/Completion Operations	<p>BOPE for well servicing (Rule 604.c.(2)J A BOPE with a minimum pressure rating of 3,000 psi will be utilized. At a minimum it will consist of 2 ram preventers and 1 annular preventer. The blind rams will be positioned below the pipe rams. A backup system of pressure control will be onsite consisting of at a minimum 1,000 psi accumulator (backup pressure). Accumulator is tested to 1,000 psi. Operator may use fixed sized pipe rams matching the tubular size. The annular preventer will be pressure tested to 250 psi low and 2,000 psi high for 10 minutes each. The ram preventers will be tested to 250 psi low and 2,500 psi high for 10 minutes each. All remaining well control equipment will be tested to 250 psi low and 2,500 psi high for 10 minutes each. The pressure tests will be conducted when the equipment is first installed and every 30 days thereafter. Pipe rams and blind rams will be function tested before every well service operation. Annual BOP inspections and pressure tests will be performed by the service company and will be charted & retained for 1 year. Backup stabbing valves shall be used on operations that require reverse circulation. Valves will be pressure tested before each well service operation in low pressure and high pressure range. The GWOC onsite representative will be certified in Well Control Operations by a Well-Cap certified training service.</p>
7	Drilling/Completion Operations	<p>Bradenhead Monitoring GWOC will comply with the "COGCC Policy for Bradenhead Monitoring during Hydraulic Fracturing Treatments in the Greater Wattenberg Area", dated May 29, 2012</p>

8	Drilling/Completion Operations	<p>Multi Well Open-Hole Logging – Rule 317.p</p> <p>One of the first wells drilled on the pad will be logged with an open-hole Resistivity and Gamma Ray Log from the kick-off point into the surface casing. All wells on the pad will have a cement bond log with gamma-ray run on production casing (intermediate casing or production liner if run) to the surface casing. The horizontal portion of every well will be logged with a MWD/GR log. The Form 5, Completion Report, for each well on the pad will list all logs run and have those logs attached. The Form 5 for a well without an open hole log shall clearly state “No open-hole logs were run” and shall clearly identify (by API#, well name and number) the well in which open-hole logs were run.</p>
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Total: 8 comment(s)

Applicable Policies and Notices to Operators

Policy
Notice Concerning Operating Requirements for Wildlife Protection. http://cogcc.state.co.us/documents/reg/Policies/Wildlife_Notice.pdf

Attachment Check List

Att Doc Num	Name
401303149	FORM 2 RESUBMITTED
401433289	FORM 2 SUBMITTED
401433290	FORM 2 REJECTED
401434782	OffsetWellEvaluations Data
401434783	DIRECTIONAL DATA
401434784	WELL LOCATION PLAT
401434785	MINERAL LEASE MAP
401434786	SURFACE AGRMT/SURETY
401434787	PROPOSED SPACING UNIT
401434788	DEVIATED DRILLING PLAN
401434789	EXCEPTION LOC REQUEST
401434790	EXCEPTION LOC WAIVERS
401434791	EXCEPTION LOC WAIVERS
401434792	FORM 2 SUBMITTED

Total Attach: 14 Files

General Comments

User Group	Comment	Comment Date
		Stamp Upon Approval

Total: 0 comment(s)

Public Comments

No public comments were received on this application during the comment period.

REJECTED