FORM 2

State of Colorado

Oil and Gas Conservation Commission



Rev 08/16 1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109	401302917			
APPLICATION FOR PERMIT TO:	(RE-SUBMITTED)			
✓ Drill Deepen Re-enter Recomplete and Operate				
TYPE OF WELL OIL X GAS COALBED OTHER Refilin	Date Received:			
ZONE TYPE SINGLE ZONE X MULTIPLE ZONES COMMINGLE ZONES Sidetrac				
Well Name: Postle IC Well Number: 09-059HNX				
Name of Operator: GREAT WESTERN OPERATING COMPANY LLC COGCC Operator	or Number: 10110			
Address: 1801 BROADWAY #500				
City: DENVER State: CO Zip: 80202				
Contact Name: Miracle Pfister Phone: (303)398-0550 Fax: ()	_			
Email: regulatorypermitting@gwogco.com				
RECLAMATION FINANCIAL ASSURANCE				
Plugging and Abandonment Bond Surety ID: 20160041				
WELL LOCATION INFORMATION				
QtrQtr: SWNW Sec: 11 Twp: 3N Rng: 68W Meridian: 6				
Latitude: 40.243978 Longitude: -104.977917				
FNL/FSL FEL/FWL				
Footage at Surface: 1455 Feet FNL 521 Feet FWL Field Name: WATTENBERG Field Number: 90750				
Field Name: WATTENBERG Field Number: 90750 Ground Elevation: 4977 County: WELD				
GPS Data:	7			
Date of Measurement: 03/15/2017 PDOP Reading: 1.7 Instrument Operator's Name: CHAD MEIERS				
If well is Directional X Horizontal (highly deviated) submit deviated drilling plan.				
Footage at Top of Prod Zone: FNL/FSL FEL/FWL Bottom Hole: FNL/FSL	FEL/FWL			
	FWL			
Sec: 11 Twp: 3N Rng: 68W Sec: 9 Twp: 3N	Rng: 68W			
LOCATION SURFACE & MINERALS & RIGHT TO CONSTRUCT				
Surface Ownership: 🗵 Fee 📗 State 📗 Federal 📗 Indian				
The Surface Owner is: is the mineral owner beneath the location.				
(check all that apply) is committed to an Oil and Gas Lease.				
has signed the Oil and Gas Lease.				
is the applicant.				
The Mineral Owner beneath this Oil and Gas Location is: X Fee State Federal Inc	lian			
The Minerals beneath this Oil and Gas Location will be developed by this Well: No				
The right to construct the Oil and Gas Location is granted by: Surface Use Agreement				
Surface damage assurance if no agreement is in place: Surface				
Guildoo Guioty ID				

LEASE INFORMATION					
Using standard QtrQtr, Sec, 7 beneath surface location if pr				duced by this well	(Describe lease
Irregular mineral lease, ple	ase see attached	map. The lease is colored	orange.		
Total Acres in Described Lea	se: 370	Described Mineral Le	ease is: 🗵 Fee	State Fe	ederal 🔲 Indian
Federal or State Lease #					
Distance from Completed Po	rtion of Wellbore t	o Nearest Lease Line of d	escribed lease: 0	Feet	
CULTURAL DISTANCE	INFORMATIC	N		JCTIONS:	e provided from center of
Building High Occupancy Building	y Unit: 1370 y Unit: 5280	Peet Feet Feet Feet	featur - Enter - Build Buildir both.	e as described in Ru 5280 for distance g ing - nearest buildin ng is a Building Unit,	
Designated Outside Activity	-	Feet	Design	ated Outside Activit	ty Area - as defined in
Public I		5 Feet	100-S€	eries Rules.	
Above Ground I	·	Feet			
	-	5 Feet			
Property	Line: 452	2 Feet			
DESIGNATED SETBACINFORMATION	CK LOCATION	1	1,000'	of a Building Unit	ed in Rule 604.a.(2), within ribed in Rule 604.a.(1),
Check all that apply. This loca	ation is within a:	Buffer Zone	within	500' of a Building U	nit.
		Exception Zone	- Urbai Rules.	n Mitigation Area - a	as defined in 100-Series
		Urban Mitigation Are			
Pre-application Notifications ((required if locatio	n is within 1,000 feet of a	building unit):		
Date of Rule 305.a.(1) U	Jrban Mitigation A	rea Notification to Local G	overnment:		
Date of Rule 305.a.(2) B	Buffer Zone Notifica	ation to Building Unit Own	ers:	"A	
SPACING and UNIT INF	FORMATION		7	Th /	0.
Distance from completed por		ellbore to nearest comple	ted portion of offset we	ellbore permitted o	r completed in the
	Feet	, conserve to modificat compre			. completed in the
Distance from Completed Po	rtion of Wellbore t	o Nearest Unit Boundary	470 Feet (Ente	er 5280 for distanc	e greater than 1 mile.)
Federal or State Unit Name (i				Unit Number:	o greater man i mon,
		ITO			
SPACING & FORMATION	JNS COMMEN	115			
Section 11: W2W2 Section 10: all Section 9: all					
OBJECTIVE FORMATION	ONS				
	ormation Code	Spacing Order Number(s)	Unit Acreage Assigned	to Well Unit Co	nfiguration (N/2, SE/4, etc.)
NIOBRARA NI	BRR		1440		GWA

DRILLING P	ROGRAM							
Proposed Tot	al Measured D	epth:18021 F	eet					
Distance from	the proposed	wellbore to neares	t existing or p	proposed wellbore	belonging to and	other operator,	including plug	ged wells:
Enter distance	e if less than or	equal to 1,500 fee	et: 88	Feet No	well belonging	to another ope	rator within 1	,500 feet
Will a closed-	loop drilling sys	stem be used?	Yes					
Is H ₂ S gas re	asonably expe	cted to be encount	ered during o	Irilling operations a	t concentrations	greater than		
or equal to 10	00 ppm? No	(If Yes, attach	an H2S Drill	ing Operations Pla	n)			
		tered during drilling	100					
	100	n CI) drilling fluids		No				
	drilling fluids b	THE RESERVE TO SERVE THE PROPERTY OF THE PROPE	_					
BOP Equipm	ent Type: 🔀 A	Annular Preventor	⊠ Double	Ram Ro	tating Head	None	е	
GROUNDW	ATER BASE	LINE SAMPLIN	NG AND M	ONITORING AI	ND WATER V	VELL SAMP	LING	
Water well sa	ampling require	d per Rule 31	8A					
DRILLING V	VASTE MAN	AGEMENT PR	OGRAM					
Drilling Fluids	s Disposal:	OFFSITE	Drilling Flu	uids Disposal Meth	ods: Commercia	l Disposal		
Cuttings Disp	osal: OFF	SITE	Cut	tings Disposal Metl	nod: Commercia	l Disposal		
Other Dispos	al Description:		-					
			- 1	18.4				
Beneficial	reuse or land a	pplication plan sub	omitted?	No				
	acility ID:		cument Nun	nber:				
					2 ,			
CASING PR	OGRAM			1				
Casing Type	1	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
SURF 1ST	13+1/2 8+1/2	9+5/8 5+1/2	36 17	0	1500 18021	624 2336	1500 18021	0
	Casing is NOT		17		10021	2550	10021	0
		K LOCATION E	XCEPTIO	NS	-			
Check all that a								
		on Zone (within 50	0' of Building	Unit)				
		•	ū	ed Oil & Gas Locati	ion now within a	Designated Se	etback as a res	sult of
Rule 604.								
	a.)							
	,		ng or approve	ed Oil & Gas Locati	ion is within a De	esignated Setb	ack due to Bu	ilding Unit
constructi	b.(1)B. Excepti on after Location	on approval)		ed Oil & Gas Locati development plan o		-		ilding Unit
constructi Rule 604.	b.(1)B. Exception after Location b.(2) Exception b.(3) Exception	on approval) on Location (SUA or	site-specific		executed on or b	efore August 1	I, 2013)	-
constructi Rule 604. Rule 604. developm	b.(1)B. Exception after Location b.(2) Exception b.(3) Exception ent plan)	on approval) on Location (SUA or	site-specific Units constr	development plan oucted after August	executed on or b	efore August 1	I, 2013)	-
constructi Rule 604. Rule 604. developm	b.(1)B. Exception after Location b.(2) Exception b.(3) Exception ent plan)	on approval) Location (SUA or Location (Building	site-specific Units constr	development plan oucted after August	executed on or b	efore August 1	I, 2013)	-
Rule 604. Rule 604. developm GREATER V Check all that a	b.(1)B. Exception after Location b.(2) Exception b.(3) Exception ent plan) WATTENBE	on approval) Location (SUA or Location (Building	site-specific Units constr	development plan oucted after August	executed on or b	efore August 1	I, 2013)	-
Constructi Rule 604. Rule 604. developm GREATER V Check all that a	b.(1)B. Exception after Location b.(2) Exception b.(3) Exception ent plan) WATTENBER Apply: A.a. Exception 1	on approval) Location (SUA or Location (Building	site-specific Units constr ATION EX ndows).	development plan oucted after August	executed on or b	efore August 1	I, 2013)	-
Constructi Rule 604. Rule 604. developm GREATER V Check all that a	b.(1)B. Exception after Location b.(2) Exception b.(3) Exception ent plan) WATTENBEL apply: A.a. Exception I	on approval) Location (SUA or Location (Building RG AREA LOCAL Location (GWA Will Location (GWA Tw	site-specific Units constr ATION EX ndows).	development plan oucted after August	executed on or b	efore August 1	I, 2013)	-

ОТН	ER LOCATION EXCEPTI	ONS
Check	all that apply:	
	Rule 318.c. Exception Location	n from Rule or Spacing Order Number
	Rule 603.a.(2) Exception Loca	tion (Property Line Setback).
		ire attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g.
wai	vers, certifications, SUAs).	
OPF	RATOR COMMENTS AN	D SUBMITTAL
Comn	05-123-33637) SI statu the process of obtaining	e formation and the nearest wellbore belonging to another operator is the E.L. Minch 21-9 (API# s, operated by SRC Energy Inc. The distance was measured in 3D. Great Western is currently in g an stimulation setback consent from SRC and will not complete any portion of the wellbore less nuch 21-9 without consent.
		e drilled past the 460' setback to 370' FWL, however the deepest perforation will be at 470' from at Western affirms the wellbore will not be completed within the 460' boundary setback.
This	application is in a Comprehensi	ve Drilling Plan No CDP #:
Loca	tion ID: 433857	
Is th	is application being submitted w	vith an Oil and Gas Location Assessment application? Yes
I her	eby certify all statements made	in this form are, to the best of my knowledge, true, correct, and complete.
Sigr	ned:	Print Name: Christi Ng
Т	itle: Sr. Regulatory Analyst	Date: Email: _cng@gwogco.com
		rein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders
and is	hereby approved.	
COG	CC Approved:	Director of COGCC Date:
	API NUMBER	Expiration Date:
0	5	
		Conditions Of Approval
co en	nstitute representations, s	ons and conditions of approval stated in the Form 2A for this location shall tipulations and conditions of approval for this Form 2 Permit-to-Drill and are nt as all other representations, stipulations and conditions of approval stated in
COA	<u>Type</u>	<u>Description</u>
		Best Management Practices
No	BMP/COA Type	<u>Description</u>
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

2	Planning	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.
3	Drilling/Completion Operations	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.
4	Drilling/Completion Operations	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.
5	Drilling/Completion Operations	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.
6	Drilling/Completion Operations	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.
7	Drilling/Completion Operations	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

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l	8	Drilling/Completion	Multi Well Open-Hole Logging – Rule 317.p	
l		Operations	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	
l			casing or production liner if run) to the surface casing. The horizontal portion of every	
l			well will be logged with a MWD/GR log. The Form 5, Completion Report, for each well	
l			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.	
ı				

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
401302917	FORM 2 SUBMITTED
401433245	FORM 2 SUBMITTED
401433246	FORM 2 REJECTED
401434309	OffsetWellEvaluations Data
401434323	DIRECTIONAL DATA
401434325	WELL LOCATION PLAT
401434328	MINERAL LEASE MAP
401434334	SURFACE AGRMT/SURETY
401434338	DEVIATED DRILLING PLAN
401434343	PROPOSED SPACING UNIT
401434347	EXCEPTION LOC REQUEST
401434349	EXCEPTION LOC REQUEST
401434354	EXCEPTION LOC WAIVERS

Total Attach: 13 Files

General Comments

User Group	Comment		Comment Date
		V	Stamp Upon Approval

Total: 0 comment(s)

Date Run: 10/18/2017 Doc [#401302917] Well Name: Postle IC 09-059HNX

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