**FORM** 2

## State of Colorado

## Oil and Gas Conservation Commission 1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 804 3100 Fave (200) 201 2012





Document Number:

Rev 02/20	1120		eet, Suite 801, D 3) 894-2100 Fax	,		1M	DNR	401872019	
		APPLICA	ATION FOR	PERMI	Г ТО:			(SUBMITTED)	
TYPE O	F WELL OIL	GAS CONE	COALBED MULTIPLE ZONE		_	plete and Op	Refiling Sidetrack	Date Received: 04/11/2019	
Name of	ne: Prairie LE Operator: GREA : 1001 17TH STR		N OPERATING	COMPAN		er: <u>31-369H</u> COGC	C C Operator Num	nber: 10110	
City: Contact	DENVER  Name: Linsey  Email: Ijones@g	 Jones	State: CO	Phone:	Zip: 80202 (720)595-2218	Fax: (	)		
	MATION FINA			1 1 1 1		1			

WELL LOCATION INFO	DRMATION			
QtrQtr: SWSW Sec:	20Twp:1	S Rng: 66W	Meridian: 6	
Latitude: 39.944914		Longitude: -1	04.804824	
		FNL/FSL	FEL/FWL	
Footage at Surface:	577 Feet	FSL 1122	Feet FWL	
Field Name: WATTENBERG	<b>3</b>	Field Number:	90750	
Ground Elevation: 5046		County: AD	AMS	
GPS Data: CDS Quality	12 -	1 600 0 11 14 1	PDOP	Date of Measurement: 09/21/2018
GPS Quality	Value: 1.2 T	ype of GPS Quality Val	ue: 1 BOI	
GPS Quality		ared Christopher	ue. 1 DOI	Bate of Medadicinent. 03/21/2010
GPS Quality		ared Christopher	it deviated drilling plan.	Bate of Medical Control Contro
Instrument O	perator's Name: _J	ared Christopher ighly deviated) subm		FEL/FWL
Instrument Op	perator's Name: _J	ared Christopher ighly deviated) subm	it deviated drilling plan.	
Instrument Op  If well is Directional  Footage at Top of Prod Zone	perator's Name:	ared Christopher ighly deviated) subm	nit deviated drilling plan.	FEL/FWL 2255 FEL

Ins	trumer	it Ope	erator's Nar	me: <u>Jar</u>	ed Chris	topher		_ `	/ 4		1/1	
If well is Direc	tional		<b>⋉</b> Horizo	ontal (high	nly devia	ted) su	bmit devia	ted dr	illing plan.	-		
Footage at Top of I	Prod Z	one:	FNL/FSL		FEL/F	wL B	ottom Hole	): F	FNL/FSL		FEL/FWL	
	460	)	FNL	2255	FE	L	370		FSL	2255	FEL	
	Sec:	30	Twp:	1S	Rng:	66W	Sec:	31	Twp	: 1S	Rng:	66W
LOCAL GOVE	RNM	ENT	INFORM	IATION								
County: ADAMS					Muni	cipality: E	Brighton				_	
Per § 34-60-106 (1 proposed oil and ga			following o	questions	pertain	to the "lo	cal govern	ment	with juriso	liction to a	pprove the	siting of the
The local governme	ent with	n juris	diction is:	Municipa	lity							
Does the local gove location? If the location, indicate indicate in the locate in the	al gove	rnmer	nt does reg	ulate the	siting, b	ut has wa	aived its rig	ht to	precede th	ne COGC(		⊠ Yes  No
If yes, in checking t local government w location.		,	, ,									
The local governme	ent sitir	ng per	rmit type is:	CUG								
The local governme	ent sitir	ng per	rmit was file	ed on:	08/23/	2019						
Date Run: 9/9/202	20 Doc	· [#A0	18720101	Wall Nam	aa. Drair	:- I F 24	200110					Page 1 of 8

The disposition of the application file	ed with the local government is:	Approved
Additional explanation of local proce	-	<u></u>
The CUG was approved on 1/2		
LOCATION SURFACE & MI	INERALS & RIGHT TO CO	ONSTRUCT
Surface Ownership: X Fee		Indian
(check all that apply)	mineral owner beneath the loca mmitted to an Oil and Gas Lease	
IX IS COL		<b>3.</b>
	igned the Oil and Gas Lease.	
is the	applicant.	
The Mineral Owner beneath this Oil	and Gas Location is: X Fee	State Federal Indian
The Minerals beneath this Oil and C	Sas Location will be developed b	by this Well: No
The right to construct the Oil and G	as Location is granted by: Sur	face Use Agreement
Surface damage assurance if no ag	reement is in place:	Surface Surety ID:
LEASE INFORMATION		
Using standard QtrQtr, Sec, Twp, R beneath surface location if produce		nineral lease that will be produced by this well (Describe lease age or map if necessary.)
Irregular lease - see attached ma	.p	
Total Acres in Described Lease:	140 Described Mine	eral Lease is: X Fee State Federal Indian
Federal or State Lease #		
Distance from Completed Portion of	————— f Wellbore to Nearest Lease Line	e of described lease: 0 Feet
<u>·</u>		
CULTURAL DISTANCE INF	ORMATION	INSTRUCTIONS:  - All measurements shall be provided from center of
Distance to nearest:		the Proposed Well to nearest of each cultural feature as described in Rule 303.a.(5).
Building:	1362 Feet	- Enter 5280 for distance greater than 1 mile.
Building Unit:	1362 Feet	- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for
High Occupancy Building Unit:	5280 Feet	both.
Designated Outside Activity Area:	5280 Feet	- Building Unit, High Occupancy Building Unit, Designated Outside Activity Area, School Facility,
Public Road:	563 Feet	and Child Care Center – as defined in 100 Series
Above Ground Utility:	606 Feet	Rules.
Railroad:	5313 Feet	
Property Line:	577_ Feet	
School Facility:	5280 Feet	
School Property Line:	5280 Feet	
Child Care Center:	5280 Feet	

	BACK LOCATION	1	1,000' of a Build	is described in Rule 604.a.(2), within ing Unit - as described in Rule 604.a.(1),
Check all that apply. This	location is within a:	Buffer Zone	within 500' of a	Building Unit.
		Exception Zone	- Urban Mitigation	on Area - as defined in 100-Series
		Urban Mitigation Area		
Pre-application Notification	ons (required if location	n is within 1,000 feet of a buildi	ng unit):	
Date of Rule 305.a.	(1) Urban Mitigation A	rea Notification to Local Govern	ment:	
Date of Rule 305.a.(	2) Buffer Zone Notific	ation to Building Unit Owners:		
SPACING and UNIT	INFORMATION			
Distance from completed	portion of proposed v	wellbore to nearest completed p	ortion of offset wellbore pe	rmitted or completed in the
same formation: 306	Feet			
Distance from Completed	d Portion of Wellbore t	to Nearest Unit Boundary	460 Feet (Enter 5280 fo	or distance greater than 1 mile.)
Federal or State Unit Nar	ne (if appl):		 Unit Nur	mber:
SPACING & FORM		NITS		
	ATTOMS COMMINIC	NI 3		
DSU T1S R66W				
Sections 30 and 31: A	п 🔪			
		7		
If this Form 2 is asso	ciated with a Drilling a	and Spacing Unit application, pro	ovide docket number:	
OBJECTIVE FORM	ATIONS			
Objective Formation(s)	Formation Code	Spacing Order Number(s) Unit	t Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
CODELL	CODL	407-2558	1280	Sec 30, 31: All
			(2)	

Proposed Total Measured Depth:18961 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:605 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: X Annular Preventor X Double Ram X Rotating HeadNone  GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING
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:605 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: X Annular Preventor X Double Ram X Rotating HeadNone
Enter distance if less than or equal to 1,500 feet:
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Water well sampling required per Rule318A
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   1700   717   1700   0
1ST 8+1/2 5+1/2 17 0 18961 2356 18961 4759
IST 8+1/2 5+1/2 17 0 18961 2356 18961 4759  ▼ 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
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OTHER LO	OCATION EXCEPT	IONS
Check all tha	t apply:	
Rule 3	318.c. Exception Locatio	n from Rule or Spacing Order Number
Rule 6	603.a.(2) Exception Loca	tion (Property Line Setback).
	tions and variances requertifications, SUAs).	uire attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g.
OPERATO	OR COMMENTS AN	D SUBMITTAL
Comments		ed portion of the wellbore to nearest wellbore permitted or completed in the same formation was proposed Prairie LE 31-369HN.
		osed wellbore to nearest existing or proposed wellbore belonging to another operator, including sured to the Cutler Brothers Freeman 1-A, API# 05-001-07092 (PA status).
	within the unit boundar	hole location beyond the unit boundary setback. The bottom of the completed interval will be y setback at 470' FSL and 2255" FEL of Section 31. The wellbore beyond the unit boundary lly isolated and will not be completed.
	The Exception Location section 6.15 (B).	n Waiver for Rule 318A.a. and 318A.c. is in the attached Surface Use Agreement on page 13
This applica	tion is in a Comprehens	ive Drilling Plan No CDP #:
Location ID:	450942	
Is this appli	cation being submitted v	with an Oil and Gas Location Assessment application?
I hereby ce	rtify all statements made	e in this form are, to the best of my knowledge, true, correct, and complete.
Signed:		Print Name: Linsey Jones
Title: F	Regulatory Analyst	Date: 4/11/2019 Email: regulatorypermitting@gwogco.c
Donal on the		and in this Application for Develt to Drill complies with COCCO Pulse and likely and are and
	nd is hereby approved.	erein, this Application for Permit-to-Drill complies with COGCC Rules, applicable orders, and
COGCC App	roved:	Director of COGCC Date:
	API NUMBER	Expiration Date:
05		
constitut enforcea	te representations, s	Conditions Of Approval ons and conditions of approval stated in the Form 2A for this location shall stipulations and conditions of approval for this Form 2 Permit-to-Drill and are ent as all other representations, stipulations and conditions of approval stated in
COA Type		<u>Description</u>
		Best Management Practices

<u> BMP/COA Type</u>	<u>Description</u>
Drilling/Completion Operations	Drill stem tests (Rule 604.c.(2)L
Operations	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 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.
Drilling/Completion Operations	Stimulation Setback – Rule 317.s
Operations	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.
Drilling/Completion Operations	BOPE for well servicing (Rule 604.c.(2)J
Operations	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 & retaine 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.
5 Drilling/Completion Operations	Bradenhead Monitoring  GWOC will comply with the "COGCC Policy for Bradenhead Monitoring during

l	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
		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.

Total: 6 comment(s)

## **Attachment Check List**

Att Doc Num	<u>Name</u>
401872053	OffsetWellEvaluations Data
401872068	MINERAL LEASE MAP
402471894	DIRECTIONAL DATA
402471900	DEVIATED DRILLING PLAN
402471905	SURFACE AGRMT/SURETY
402483529	EXCEPTION LOC REQUEST
402483996	WELL LOCATION PLAT

Total Attach: 7 Files

## **General Comments**

<u>oser Group</u>	Comment		Comment Date
Permit	Returned to draft: Operator to been reviewed for completen	o complete Local Government Information. This form has not ness.	05/30/2019

Total: 1 comment(s)

Date Run: 9/9/2020 Doc [#401872019] Well Name: Prairie LE 31-369HC

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