

FORM
2

Rev
05/22

State of Colorado

Energy & Carbon Management Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203
Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

403606586

(SUBMITTED)

Date Received:

11/30/2023

APPLICATION FOR PERMIT TO

☒ Drill ☐ Deepen ☐ Re-enter ☐ Recomplete and Operate

Amend ☐

TYPE OF WELL OIL ☒ GAS ☐ COALBED ☐ OTHER: UNPLANNED SIDETRACK

Refill ☐

ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐

Sidetrack ☒

Well Name: LG Everist

Well Number: 06

Name of Operator: PETRO OPERATING COMPANY LLC

COGCC Operator Number: 10583

Address: 9033 E EASTER PLACE SUITE 112

City: CENTENNIAL

State: CO

Zip: 80112-2105

Contact Name: Alex Corey

Phone: (713)408-7174

Fax: ()

Email: alex.corey@iptenergyservices.com

FINANCIAL ASSURANCE FOR PLUGGING, ABANDONMENT, AND RECLAMATION

COGCC Financial Assurance

☒ The Operator has provided or will provide Financial Assurance to the COGCC for this Well.

Surety ID Number (if applicable): 20150075

Federal Financial Assurance

☐ In checking this box, the Operator certifies that it has provided or will provide at least this amount of Financial Assurance to the federal government for this Well. (Per Rule702.a.)

Amount of Federal Financial Assurance \$

WELL LOCATION INFORMATION

Surface Location

QtrQtr: NWNW Sec: 30 Twp: 2N Rng: 66W Meridian: 6

FNL/FSL

FEL/FWL

Footage at Surface: 1079 Feet FNL 1127 Feet FWL

Latitude: 40.113400

Longitude: -104.826000

GPS Data: GPS Quality Value: 1.4 Type of GPS Quality Value: PDOP

Date of Measurement: 04/24/2023

Ground Elevation: 4875

Field Name: WATTENBERG

Field Number: 90750

Well Plan: is ☐ Directional ☒ Horizontal (highly deviated) ☐ Vertical

If Well plan is Directional or Horizontal attach Deviated Drilling Plan and Directional Data.

Subsurface Locations

Top of Productive Zone (TPZ)

Sec: 30 Twp: 2N Rng: 66W

Footage at TPZ: 460 FNL 946 FWL

Measured Depth of TPZ: 9111

True Vertical Depth of TPZ: 7302

FNL/FSL

FEL/FWL

Base of Productive Zone (BPZ)Sec: 19 Twp: 2N Rng: 66WFootage at BPZ: 464 FNL 1000 FWLMeasured Depth of BPZ: 18779True Vertical Depth of BPZ: 7242 FNL/FSL FEL/FWL**Bottom Hole Location (BHL)**Sec: 19 Twp: 2N Rng: 66WFootage at BHL: 464 FNL 1000 FWL

FNL/FSL FEL/FWL

LOCAL GOVERNMENT PERMITTING INFORMATIONCounty: WELDMunicipality: Fort Lupton

Is the Surface Location of this Well in an area designated as one of State interest and subject to the requirements of §

24-65.1-108 C.R.S.? No

Per § 34-60-106(1)(f)(I)(A) C.R.S., the following questions pertain to the Relevant Local Government approval of the siting of the proposed Oil and Gas Location.

SB 19-181 provides that when "applying for a permit to drill," operators must include proof that they sought a local government siting permit and the disposition of that permit application, or that the local government does not have siting regulations. § 34-60-106(1)(f)(I)(A) C.R.S.

Does the Relevant Local Government regulate the siting of Oil and Gas Locations, with respect to this Location? ☒ Yes ☐ No☒ If yes, in checking this box, I hereby certify that an application has been filed with the local government with jurisdiction to approve the siting of the proposed oil and gas location.The disposition of the application filed with the Relevant Local Government is: Approved Date of Final Disposition: 01/07/2020Comments: The Fort Lupton permit was conditionally approved as per 1/7/2020 meeting. Final approval was issued 10/12/2023 upon their receipt of the approved Form 2A and Form 2.**SURFACE AND MINERAL OWNERSHIP AT WELL'S OIL & GAS LOCATION**Surface Owner of the land at this Well's Oil and Gas Location: ☒ Fee ☐ State ☐ Federal ☐ IndianMineral Owner beneath this Well's Oil and Gas Location: ☒ Fee ☐ State ☐ Federal ☐ Indian

Surface Owner Protection Bond (if applicable): _____

Surety ID Number (if applicable): _____

MINERALS DEVELOPED BY WELL

The ownership of all the minerals that will be developed by this Well is (check all that apply):

☒ Fee☐ State☐ Federal☐ Indian☐ N/A**LEASE INFORMATION**

Using standard QtrQtr, Section, Township, Range format describe one entire mineral lease as follows:

* If this Well is within a unit, describe a lease that will be developed by the Well.

* If this Well is not subject to a unit, describe the lease that will be produced by the Well.

(Attach a Lease Map or Lease Description or Lease if necessary.)

T2N R66W: S19 W/2; S30 W/2Total Acres in Described Lease: 640Described Mineral Lease is: ☒ Fee ☐ State ☐ Federal ☐ Indian

Federal or State Lease # _____

SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 845 Feet
Building Unit: 1457 Feet
Public Road: 1068 Feet
Above Ground Utility: 255 Feet
Railroad: 4901 Feet
Property Line: 187 Feet

INSTRUCTIONS:

- Specify all distances per Rule 308.b.(1).
- 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 – as defined in 100 Series Rules.

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	407-3479	640	T2N R66W: S19 W/2; S30 W/2

Federal or State Unit Name (if appl):

Unit Number:

SUBSURFACE MINERAL SETBACKS

Enter 5280 for distance greater than 1 mile.

Is this Well within a unit? Yes

If YES:

Enter the minimum distance from the Completed Zone of this Well to the Unit Boundary: 460 Feet

Enter the minimum distance from the Completed Zone of this Well to the Completed Zone of an offset Well within the same unit permitted or completed in the same formation: 736 Feet

If NO:

Enter the minimum distance from the Completed Zone of this Well to the Lease Line of the described lease: Feet

Enter the minimum distance from the Completed Zone of this Well to the Completed Zone of an offset Well producing from the same lease and permitted or completed in the same formation: Feet

Exception Location

- ☐ If this Well requires the approval of a Rule 401.c Exception Location, enter the Rule or spacing order number and attach the Exception Location Request and Waivers.

SPACING & FORMATIONS COMMENTS

DRILLING PROGRAM

Proposed Total Measured Depth: 18779 Feet

TVD at Proposed Total Measured Depth 7242 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: 79 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 Plan unless a plan was already submitted with the Form 2A per Rule 304.c.(10).

Will there be hydraulic fracture treatment at a depth less than 2,000 feet in this well? No

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

Beneficial reuse or land application plan submitted? No

Reuse Facility ID: _____ or Document Number: _____

CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	Grade	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
CONDUCTOR	26	16	Line	42	0	80	56	80	0
SURF	13+1/2	9+5/8	J55	36	0	1810	540	1810	0
1ST	8+1/2	5+1/2	P110	20	0	18779	2764	18779	

☐ Conductor Casing is NOT planned

POTENTIAL FLOW AND CONFINING FORMATIONS

Zone Type	Formation /Hazard	Top M.D.	Top T.V.D.	Bottom M.D.	Bottom T.V.D.	TDS (mg/L)	Data Source	Comment
Confining Layer	Laramie Shale	0	0	935	935			
Hydrocarbon	Laramie/Fox Hills	935	935	995	955	501-1000	USGS	
Confining Layer	Pierre Shale	995	995	1500	1480			
Groundwater	Upper Pierre	1500	1480	1760	1710	1001-10000	Other	ECMC Report 2141
Confining Layer	Pierre Shale	1760	1710	4720	4075			
Confining Layer	Parkman	4720	4075	5500	4560			
Hydrocarbon	Sussex	5500	4560	6215	5075			
Hydrocarbon	Shannon	6215	5075	8990	7100			
Confining Layer	Sharon Springs	8990	7100	9090	7220			
Hydrocarbon	Niobrara	9090	7220	18779	7242			Btm MD=TD, Btm TVD=TVD @ BHL, since well is drilled with inclination > 90 deg

OPERATOR COMMENTS AND SUBMITTAL

Comments: After TD'ing well at 18898ft MD a clean-up cycle was performed and BHA was being POOH to run production casing. At a depth of ~5600ft in the 45° inclination set back section, the stand pulled heavy. Top of fish is 5070'. Planned KOP is 4560'.

This application is in a Comprehensive Area Plan No

CAP #: _____

Oil and Gas Development Plan Name LG Everist 2N66W30

OGDP ID#: 482696

Location ID: 484897

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

Signed: _____

Print Name: Jessica Donahue

Title: Compliance Specialist

Date: 11/30/2023

Email: jdonahue@ardorenvironmental.

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules, applicable orders, and SB 19-181 and is hereby approved.

COGCC Approved: _____

Director of COGCC

Date: _____

Expiration Date: _____

API NUMBER

05 123 52229 01

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

0 COA

Best Management Practices

No BMP/COA Type

Description

Attachment List

Att Doc Num

Name

403606655	OffsetWellEvaluations Data
403607129	PROPOSED OPERATIONS
403609035	DIRECTIONAL DATA
403609042	DEVIATED DRILLING PLAN
403609616	WELLBORE DIAGRAM
403610926	WELLBORE DIAGRAM
403611760	CORRESPONDENCE

Total Attach: 7 Files

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)