

FORM

2

Rev
05/22

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:

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(SUBMITTED)

Date Received:

05/19/2023

APPLICATION FOR PERMIT TO

☒ Drill ☐ Deepen ☐ Re-enter ☐ Recomplete and OperateAmend ☐TYPE OF WELL OIL ☐ GAS ☒ COALBED ☐ OTHER: _____Refill ☐ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐Sidetrack ☐

Well Name: Ardourel 33081718

Well Number: 4HU

Name of Operator: NUEVIDA RESOURCES LLC

COGCC Operator Number: 10764

Address: 5950 CEDAR SPRINGS RD STE #100

City: DALLAS

State: TX

Zip: 75235

Contact Name: Richard Pate

Phone: (303)550-4880

Fax: ()

Email: dpate@nuevidaresources.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): 20200199

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: Lot 3 Sec: 18 Twp: 33N Rng: 8W Meridian: N

FNL/FSL

FEL/FWL

Footage at Surface: 1793 Feet FSL 289 Feet FWL

Latitude: 37.101247

Longitude: -107.767606

GPS Data:

GPS Quality Value: 1.8

Type of GPS Quality Value: PDOP

Date of Measurement: 12/22/2020

Ground Elevation: 6719

Field Name: IGNACIO BLANCO

Field Number: 38300

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: 18 Twp: 33N Rng: 8W

Footage at TPZ: 2532 FNL 600 FWL

Measured Depth of TPZ: 7328

True Vertical Depth of TPZ: 6889 FNL/FSL FEL/FWL

Base of Productive Zone (BPZ)Sec: 17 Twp: 33N Rng: 8WFootage at BPZ: 2532 FNL 600 FELMeasured Depth of BPZ: 16841True Vertical Depth of BPZ: 6838 FNL/FSL FEL/FWL**Bottom Hole Location (BHL)**Sec: 17 Twp: 33N Rng: 8WFootage at BHL: 2531 FNL 491 FEL

FNL/FSL FEL/FWL

LOCAL GOVERNMENT PERMITTING INFORMATIONCounty: LA PLATAMunicipality: N/A

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: 07/21/2022Comments: **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.)

Township 33 North, Range 8 West, N.M.P.M.

Section 17: All

Section 18: Lots 1(39.49), 2(40.12), 3(40.23), 4(39.68), E/2W/2, E/2 (a/k/a All)

Total Acres in Described Lease: 1280

Described Mineral Lease is: ☒ Fee

☐ State

☐ Federal

☐ Indian

Federal or State Lease # _____

SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 1270 Feet

Building Unit: 1270 Feet

Public Road: 79 Feet

Above Ground Utility: 160 Feet

Railroad: 5280 Feet

Property Line: 188 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.)
MANCOS	MNCS			

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: 600 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: 5280 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: 16951 Feet

TVD at Proposed Total Measured Depth 6838 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: 613 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
SURF	17+1/2	13+3/8	J-55	54.5	0	500	509	500	0
1ST	12+1/4	9+5/8	L-80HC	40	0	6356	2778	6356	0
2ND	8+1/2	5+1/2	P-110	20	0	16951	3605	16951	5356

☒ 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
Groundwater	ANIMAS	10	10	1570	1570	0-500	Groundwater Sample	
Groundwater	LOWER ANIMAS	1570	1570	1780	1780	1001-10000	USGS	WRI 4188
Confining Layer	KIRTLAND	1780	1780	1960	1960		USGS	WRI 95-4190
Hydrocarbon	FARMINGTON SAND	1960	1960	2503	2499		USGS	WRI 95-4190
Confining Layer	KIRTLAND SHALE (LOWER)	2503	2499	2675	2669		USGS	WRI 95-4190
Hydrocarbon	FRUITLAND COAL	2675	2669	3122	3106		USGS	WRI 4188
Hydrocarbon	PICTURED CLIFFS	3122	3106	3388	3382		USGS	WRI 4188
Confining Layer	LEWIS SHALE	3388	3382	4919	4859		USGS	WRI 4188
Hydrocarbon	CLIFF HOUSE	4919	4859	5366	5295		USGS	WRI 4188
Hydrocarbon	MENEFEE (MV)	5366	5295	5635	5558		USGS	WRI 4188
Hydrocarbon	POINT LOOKOUT (MV)	5635	5558	6040	5953		USGS	WRI 95-4190
Confining Layer	MANCOS SHALE	6040	5953	6804	6673		USGS	WRI 95-4190
Hydrocarbon	MANCOS-MIDDLE	6804	6673	7314	7274		USGS	WRI 95-4190

OPERATOR COMMENTS AND SUBMITTAL**Comments**

- This well has a bottom hole location beyond the unit boundary setback for operational/cementing purposes. The bottom of the completed interval will be within the unit boundary of 600' FEL x 2532' FSL. The wellbore beyond the boundary set back will be isolated and will not be completed.
- NueVida Resources has no operated wells in the unit.
- There are no producing wells in the Mancos formation located in the unit.
- The Mancos TVD in the Ardourel #4U lateral wellbore is 6889'.
- The nearest well (non-operated) in the unit penetrating through the Mancos (per manual calculation) is at 730'. Harmon DK-MV GU #1 (API: 05-067-05418), Status: P&A 1/16/2023.
- Wells within 150': NONE
- Wellbore to wellbore distances populated from attached anti-collision report unless otherwise indicated.
- NueVida Resources will isolate the Animas/Ojo Alamo formation (potential fresh water source) with surface casing set at 500' and intermediate casing set at 6300', both strings cemented to surface. Deepest water well (SESW 13-T33N-R9W) is approximately 3500' from Ardourel #4HU wellbore and has a TD=320'.

This application is in a Comprehensive Area Plan _____

CAP #: _____

Oil and Gas Development Plan Name Ardourel OGD

OGDP ID#: 483343

Location ID: _____

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

Signed: _____

Print Name: RICHARD PATE

Title: CHIEF OPERATING OFFICER

Date: 5/19/2023

Email: dpate@nuevidaresources.com

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

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

1	Wildlife	If new oil and gas operations must occur within CPW-mapped mule deer and elk severe winter range and/or winter concentration areas, the operator agrees to conduct new oil and gas operations outside the time period from December 1 through April 30.
2	Material Handling and Spill Prevention	Operator will use leak detection and monitoring during completions operations.
3	Material Handling and Spill Prevention	Operator will ensure that a fueling contractor is present during the entire fueling process to prevent overfilling, leaks and drips from improper connections.
4	Emissions mitigation	Operator will not use fracturing fluids which contain PFAS compounds.
5	Emissions mitigation	Venting/Flaring: Operator will not flare or vent gas during completion or flowback, except in upset or emergency conditions, or with prior written approval from the Director for necessary maintenance operations
6	Odor mitigation	Operator will ensure that all drilling fluid is removed from pipes before storage.
7	Odor mitigation	Operator will use a squeegee or other device to remove drilling fluids from pipes as they exit the wellbore.
8	Odor mitigation	Operator will cover trucks transporting drill cuttings.

Total: 8 comment(s)

Attachment List

Att Doc Num

Name

403307730	OffsetWellEvaluations Data
403307813	DIRECTIONAL DATA
403307821	DIRECTIONAL DATA
403307825	DIRECTIONAL DATA

403307834	WELL LOCATION PLAT
403316712	WELLBORE DIAGRAM

Total Attach: 6 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)

