

FORM  
2

Rev  
12/20

# 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:

402725316

**(SUBMITTED)**

Date Received:

04/22/2022

## APPLICATION FOR PERMIT TO:

Drill       Deepen       Re-enter       Recomplete and Operate

Amend

Refile

Sidetrack

TYPE OF WELL    OIL     GAS     COALBED     OTHER: \_\_\_\_\_  
ZONE TYPE      SINGLE ZONE     MULTIPLE ZONES     COMMINGLE ZONES

Well Name: Damfino 0680      Well Number: 7-6H31  
Name of Operator: D90 ENERGY LLC      COGCC Operator Number: 10706  
Address: 952 ECHO LANE SUITE 480  
City: HOUSTON      State: TX      Zip: 77024  
Contact Name: Doug Sandridge      Phone: (713)227 0391      Fax: ( )  
Email: doug@fulcrumef.com

## RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20180090

## WELL LOCATION INFORMATION

### Surface Location

QtrQtr: Lot 11      Sec: 6      Twp: 6N      Rng: 80W      Meridian: 6  
Footage at Surface: 454 Feet      FNL/FSL      FSL      2163 Feet      FEL/FWL      FEL  
Latitude: 40.512758      Longitude: -106.417277  
GPS Data:      GPS Quality Value: 1.4      Type of GPS Quality Value: PDOP      Date of Measurement: 08/16/2018  
Ground Elevation: 8219  
Field Name: NORTH PARK HORIZONTAL      Field Number: 60120  
NIOBRARA

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: 6      Twp: 6N      Rng: 80W      Footage at TPZ: 1175      FSL      2060      FEL  
Measured Depth of TPZ: 6977      True Vertical Depth of TPZ: 6743      FNL/FSL      FEL/FWL

#### Base of Productive Zone (BPZ)

Sec: 31      Twp: 7N      Rng: 80W      Footage at BPZ: 100      FNL      2395      FWL  
Measured Depth of BPZ: 17065      True Vertical Depth of BPZ: 6919      FNL/FSL      FEL/FWL

#### Bottom Hole Location (BHL)

Sec: 31      Twp: 7N      Rng: 80W      Footage at BHL: 100      FNL      2395      FWL  
FNL/FSL      FEL/FWL

## LOCAL GOVERNMENT PERMITTING INFORMATION

County: JACKSON

Municipality: 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: Waived Date of Final Disposition: \_\_\_\_\_

Comments: Jackson County does not regulate oil & gas per letter 5/23/19.

## 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  Indian

Mineral Owner beneath this Well's Oil and Gas Location:  Fee  State  Federal  Indian

Surface Owner Protection Financial Assurance (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.)

Please see lease map Doc #401900283.

Total Acres in Described Lease: 952 Described Mineral Lease is:  Fee  State  Federal  Indian

Federal or State Lease # COC 065600

### SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 1199 Feet  
Building Unit: 1241 Feet  
Public Road: 591 Feet  
Above Ground Utility: 242 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.

Railroad: 5280 Feet  
Property Line: 454 Feet

## 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	531-63	1837	All: 31, 6, 7

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: 100 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: 320 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

Township 7 North, Range 80 West Sec:31 All  
Township 6 North, Range 80 West Sec:6,7 All

## DRILLING PROGRAM

Proposed Total Measured Depth: 17065 Feet TVD at Proposed Total Measured Depth 6919 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: 600 Feet  No well belonging to another operator within 1,500 feet

Will a closed-loop drilling system be used? Yes

Is H<sub>2</sub>S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No If yes, attach an H<sub>2</sub>S 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	J55	42	0	90	190	90	0
SURF	12+1/4	9+5/8	J55	36	0	2400	673	2400	0
1ST	8+3/4	5+1/2	P110HC	20	0	17065	2948	17065	

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	Coalmont Sand	0	0	1723	1716	0-500	USGS	Site name: SB00608018DCD1 TD@800' TDS@464
Confining Layer	Coalmont Shale	1723	1716	3339	3315			
Confining Layer	Upper Pierre	3339	3315	4860	4836			
Hydrocarbon	Sussex	4860	4836	5085	5061			
Confining Layer	Pierre Lower (Shale)	5085	5061	5179	5155			
Hydrocarbon	Shannon	5179	5155	5278	5255			
Confining Layer	Pierre Lower (Shale)	5278	5255	6566	6536			
Hydrocarbon	Niobrara	6566	6536	17065	6919			Bottom TVD is bottom of the well and not bottom of the formation; The formation is not planned to be exited.

## OPERATOR COMMENTS AND SUBMITTAL

Comments

This Form 2 is being submitted as a refile of API # 05-057-06620.

There have been no new buildings constructed and no changes to the surrounding land use, well construction plans, or mineral lease description. The well site has been constructed.

There are also no changes to the Surface & Minerals, Cultural Setbacks, or Spacing & Formations. All previously submitted notices, Surface Use Agreements, and letters are also still valid.

Nearest wellbore in proposed unit per manual calculation is the Damfino 0680 8-6H31.

Nearest permitted or existing wellbore belonging to another operator per GIS measurement is the South Coalmont 1 (API: 05-057-06244) PA Status.

PFZ Comment: The upper shallow section of the North Park is not well defined. We used the depth and lithology components to define two separate sections; one being sand (as North Park FM) which is most likely a possible source of groundwater and the second being a shale (as Coalmont FM) which should not be a source of groundwater. The shale should not be a source of groundwater and has not been found to be a source of groundwater in the USGS dataset.

This application is in a Comprehensive Area Plan No CAP #: \_\_\_\_\_

Oil and Gas Development Plan Name \_\_\_\_\_ OGDP ID#: \_\_\_\_\_

Location ID: 416625

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

Signed: \_\_\_\_\_ Print Name: Justin Garrett

Title: Sr. Regulatory Analyst Date: 4/22/2022 Email: regulatory@ascentgeomatics.c

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: \_\_\_\_\_

<b>API NUMBER</b>
05 057 06620 00

### 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.

<u>COA Type</u>	<u>Description</u>
	Return to draft. Update PFZ table with Coalmont groundwater details.

### Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
1	Drilling/Completion Operations	Multi Well Open-Hole Logging - Rule 317.p: Alternative Logging Program: One of the first wells drilled on the pad – Damfino 2-06H (API 05-057-06482). The first well drilled on this pad has been logged with open-hole Resistivity Log and Gamma Ray Log from the kick-off point into the surface casing. That info is attached to form 5 Doc#400519230. All proposed wells related to this permit will have a cement bond log with gamma-ray run on production casing (or on intermediate casing if production liner is run) into the surface casing. The horizontal portion of every well will be logged with a measured while-drilling gamma-ray 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 open hole logs shall clearly state "No open-hole logs were run" and shall clearly identify the well Damfino 2-06H (API 05-057-06482) in which open-hole logs were run.
2	Drilling/Completion Operations	Blowout Prevention Equipment ("BOPE"): A double ram annular preventer will be used during drilling.

Total: 2 comment(s)

### Attachment List

<u>Att Doc Num</u>	<u>Name</u>
403001063	WELL LOCATION PLAT
403001622	DEVIATED DRILLING PLAN
403001694	DIRECTIONAL DATA
403024259	OffsetWellEvaluations Data

Total Attach: 4 Files

### General Comments

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

Total: 0 comment(s)

**Public Comments**

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

