

FORM  
2

Rev  
10/24

# 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:

404065759

**(SUBMITTED)**

Date Received:

02/18/2025

### APPLICATION FOR PERMIT TO

Drill  Deepen  Re-enter  Recomplete and Operate Amend

TYPE OF WELL OIL  GAS  COALBE  GEOTHERMAL  OTHER: \_\_\_\_\_

Refile

ZONE TYPE SINGLE ZONE  MULTIPLE ZONES  COMMINGLE ZONES

Sidetrack

Well Name: Allison Unit Well Number: 630H

Name of Operator: HILCORP ENERGY COMPANY ECMC Operator Number: 10133

Address: P O BOX 61229

City: HOUSTON State: TX Zip: 77208

Contact Name: Amanda Walker Phone: (346)237-2177 Fax: ( )

Email: mwalker@hilcorp.com

### FINANCIAL ASSURANCE FOR PLUGGING, ABANDONMENT, AND RECLAMATION

#### ECMC Financial Assurance

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

Surety ID Number (if applicable): 20050122

#### 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: L1 Sec: 20 Twp: 32N Rng: 6W Meridian: N

Footage at Surface: 554 Feet FNL FSL 1635 Feet FEL FWL

Latitude: 36.998536 Longitude: -107.521029

GPS Data: GPS Quality Value: 1.8 Type of GPS Quality Value: PDOP Date of Measurement: 05/14/2024

Ground Elevation: 6350

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: 20 Twp: 32N Rng: 6W Footage at TPZ: 649 FSL 1297 FEL  
Measured Depth of TPZ: 7340 True Vertical Depth of TPZ: 6811 FNL/FSL FEL/FWL

Base of Productive Zone (BPZ)

Sec: 22 Twp: 32N Rng: 6W Footage at BPZ: 613 FSL 1737 FEL

Measured Depth of BPZ: 17473 True Vertical Depth of BPZ: 6814 FNL/FSL  FEL/FWL

Bottom Hole Location (BHL)

Sec: 22 Twp: 32N Rng: 6W Footage at BHL: 613 FSL 1737 FEL

FNL/FSL  FEL/FWL

**LOCAL GOVERNMENT PERMITTING INFORMATION**

County: LA PLATA 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 and §37-90.5-107(2)(b)(I) C.R.S, the following questions pertain to the Relevant Local Government approval of the siting of the proposed Oil and Gas or Deep Geothermal Locations.

The Energy and Carbon Management Act and the Geothermal Resources Act provide 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.

Does the Relevant Local Government regulate the siting of Oil and Gas and Deep Geothermal 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: \_\_\_\_\_ Date of Final Disposition: \_\_\_\_\_

Comments:

## GEOTHERMAL

### Well Overview

The following questions determine informational requirements based on Well type:

Which type of Geothermal Well is this? Select one of the following:

Will this well be constructed using cementing methodologies other than those listed in Rule 408.f?

If Yes, what method will be used:

Please describe the cementing method to be used in detail:

### Geothermal Resource Units

Fill out the information below to submit an application for a Geothermal Resource Unit (GRU) as part of the current permit application. This may also be completed later using a Form 4 Sundry.

Will this Well be in an existing GRU?

Are you submitting your application for a new GRU as part of the current application?

### SURFACE AND MINERAL OWNERSHIP AT WELL'S OIL & GAS OR DEEP GEOTHERMAL LOCATION

Surface Owner of the land at this Well's Oil and Gas Or Deep Geothermal Location:  Fee  State  Federal  Indian

Mineral Owner beneath this Well's Oil and Gas Or Deep Geothermal 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.)

T32N-R06W, NMPM  
SEC 21: LOT 3 (32.12), SW/4 NE/4, SE/4 NW/4  
La Plata County, CO

Total Acres in Described Lease: 112 Described Mineral Lease is:  Fee  State  Federal  Indian

Federal or State Lease # \_\_\_\_\_

## SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 5280 Feet  
Building Unit: 5280 Feet  
Public Road: 5280 Feet  
Above Ground Utility: 5280 Feet  
Railroad: 5280 Feet  
Property Line: 865 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	112-304	679	See Comments

Federal or State Unit Name (if appl): Allison Unit Unit Number: 630H

## 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: 385 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: 1040 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

DSU No. 2:  
 Township 32 North, Range 6 West, N.M.P.M.  
 Section 20: Lots 1, 2, S/2 NE/4  
 Section 21: Lots 1, 2, 3, 4, S/2 N/2  
 Section 22: Lots 1, 2, 3, 4, S/2 NW/4, SW/4 NE/4

## DRILLING PROGRAM

Proposed Total Measured Depth: 17473 Feet                      TVD at Proposed Total Measured Depth 6814 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: \_\_\_\_\_ 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
SURF	17+1/2	13+3/8	J55	54.5	0	350	352	350	0
1ST	12+1/4	9+5/8	L80	43.5	0	6301	381	6301	0
S.C. 1.1	12+1/4	9+5/8	L80	43.5	0	6301	237	6301	5000
2ND	8+1/2	5+1/2	P110	20	0	17473	228	17473	5000
S.C. 2.1	8+1/2	5+1/2	P110	20	0	17473	2144	17473	6400

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	OJO ALAMO	2109	2084	2176	2150	501-1000	USGS	POSSIBLE WATER
Confining Layer	KIRTLAND	2176	2150	2616	2581	1001-10000	USGS	GAS & WATER
Hydrocarbon	FRUITLAND	2616	2581	2992	2950	1001-10000	USGS	GAS & WATER
Hydrocarbon	PICTURED CLIFFS	2992	2950	3520	3467			POSSIBLE GAS
Confining Layer	LEWIS SHALE	3520	3467	4981	4900		USGS	NONE
Hydrocarbon	CLIFFHOUSE	4981	4900	5363	5274		USGS	POSSIBLE GAS & WATER
Confining Layer	MENEFEE	5363	5274	5548	5455		USGS	NONE
Hydrocarbon	POINT LOOKOUT	5548	5455	6077	5974		USGS	GAS
Hydrocarbon	MANCOS	6077	5974	6277	6174		USGS	GAS

## OPERATOR COMMENTS AND SUBMITTAL

Comments SHL WILL BE IN THE STATE OF NEW MEXICO (API: 30-045-38410). BHL AND ALL PRODUCTION WILL BE FROM THE STATE OF COLORADO. SHL IS UL: F, LOT 3, SEC 12, T32N, R 7W

This application is in a Comprehensive Area Plan \_\_\_\_\_ CAP #: \_\_\_\_\_  
Oil and Gas Development Plan Name \_\_\_\_\_ OGDID #: \_\_\_\_\_  
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: Amanda Walker

Title: Regulatory Tech Sr. Date: 2/18/2025 Email: mwalker@hilcorp.com

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

ECMC Approved: \_\_\_\_\_ Director of ECMC Date: \_\_\_\_\_

Expiration Date: \_\_\_\_\_

API NUMBER  
05

### CONDITIONS OF APPROVAL, IF ANY LIST

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	

### Operator Best Management Practices

No	BMP/COA Type	Description
1	Drilling/Completion Operations	Open-hole resistivity log with gamma-ray log will be run from the kick-off point into the surface casing. A cement bond log with gamma-ray log will be run if cement is not circulated to surface on the intermediate cement job, a cement bod log will be run to verify top of cement. The horizontal portion of the wellbore will be logged with a measured-while drilling gamma-ray. log. The Form 5, Completion Report, will list all logs run and have those logs attached.

Total: 1 comment(s)

### ATTACHMENT LIST

Att Doc Num	Name
404065773	APD APPROVED
404066295	DIRECTIONAL DATA
404066368	OffsetWellEvaluations Data

404073901

OTHER

Total Attach: 4 Files

**General Comments**

**User Group**

**Comment**

**Comment Date**

Stamp Upon Approval

Total: 0 comment(s)

