

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



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APPLICATION FOR PERMIT TO:

Application type selection: [X] Drill, [] Deepen, [] Re-enter, [] Recomplete and Operate, Amend [], Refile [X], Sidetrack []. Well type: OIL [X], GAS [], COALBED [], OTHER: []. Zone type: SINGLE ZONE [], MULTIPLE ZONES [X], COMMINGLE ZONES [].

Well Name: Alice Seedorf Well Number: 1 Name of Operator: IMPETRO RESOURCES LLC COGCC Operator Number: 10690 Address: 558 CASTLE PINES PKWY UNIT B-4 City: CASTLE PINES State: CO Zip: 80108 Contact Name: Brent Bongers Phone: (361)935-5633 Fax: () Email: bbongers@impetroresources.com

RECLAMATION FINANCIAL ASSURANCE Plugging and Abandonment Bond Surety ID: 20210109

WELL LOCATION INFORMATION

Surface Location QtrQtr: NESW Sec: 22 Twp: 2N Rng: 49W Meridian: 6 Footage at Surface: 1650 Feet FSL 2040 Feet FWL Latitude: 40.123560 Longitude: -102.843830 GPS Data: GPS Quality Value: 2.3 Type of GPS Quality Value: PDOP Date of Measurement: 07/23/2019 Ground Elevation: 4234 Field Name: WILDCAT Field Number: 99999

Well Plan: is [] Directional [] Horizontal (highly deviated) [X] Vertical If Well plan is Directional or Horizontal attach Deviated Drilling Plan and Directional Data.

Subsurface Locations Top of Productive Zone (TPZ) Sec: Twp: Rng: Footage at TPZ: Measured Depth of TPZ: True Vertical Depth of TPZ: Base of Productive Zone (BPZ) Sec: Twp: Rng: Footage at BPZ: Measured Depth of BPZ: True Vertical Depth of BPZ: Bottom Hole Location (BHL) Sec: Twp: Rng: Footage at BHL:

LOCAL GOVERNMENT PERMITTING INFORMATION

County: WASHINGTON 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: Washington County does not have siting regulations

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.)

SW/4 SEC 22-T2N-R49W

Total Acres in Described Lease: 160 Described Mineral Lease is: Fee State Federal Indian

Federal or State Lease # _____

SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 4480 Feet
 Building Unit: 4480 Feet
 Public Road: 1620 Feet
 Above Ground Utility: 1998 Feet
 Railroad: 5280 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.

Property Line: 616 Feet

OBJECTIVE FORMATIONS

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
D SAND	DSND			
J SAND	JSND			

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? No

If YES:

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

If NO:

Enter the minimum distance from the Completed Zone of this Well to the Lease Line of the described lease: 616 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: 5280 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 PROGRAMProposed Total Measured Depth: 4500 Feet TVD at Proposed Total Measured Depth 4500 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: 1003 Feet No well belonging to another operator within 1,500 feetWill a closed-loop drilling system be used? YesIs 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? NoWill salt sections be encountered during drilling? NoWill salt based (>15,000 ppm Cl) drilling fluids be used? NoWill oil based drilling fluids be used? NoBOP Equipment Type: Annular Preventor Double Ram Rotating Head NoneBeneficial reuse or land application plan submitted? No

Reuse Facility ID: _____ or Document Number: _____

CASING PROGRAM

<u>Casing Type</u>	<u>Size of Hole</u>	<u>Size of Casing</u>	<u>Grade</u>	<u>Wt/Ft</u>	<u>Csg/Liner Top</u>	<u>Setting Depth</u>	<u>Sacks Cmt</u>	<u>Cmt Btm</u>	<u>Cmt Top</u>
SURF	12+1/4	8+5/8	J55	24	0	470	250	470	0
1ST	7+7/8	5+1/2	J55	15.5	0	4500	400	4500	2400

 Conductor Casing is NOT planned**POTENTIAL FLOW AND CONFINING FORMATIONS**

<u>Zone Type</u>	<u>Formation /Hazard</u>	<u>Top M.D.</u>	<u>Top T.V.D.</u>	<u>Bottom M.D.</u>	<u>Bottom T.V.D.</u>	<u>TDS (mg/L)</u>	<u>Data Source</u>	<u>Comment</u>
Groundwater	Ogallala	150	150	250	250	0-500	USGS	USGS 400735102571901
Confining Layer	Pierre Shale	250	250	2958	2958			
Confining Layer	Niobrara Shale	2958	2958	3808	3808			
Hydrocarbon	D Sand	3808	3808	3886	3886			
Hydrocarbon	J Sand	3886	3886	4050	4050			

OPERATOR COMMENTS AND SUBMITTALComments

This application is in a Comprehensive Area Plan _____ CAP #: _____

OGDP ID#: _____ OGDP Name: _____ Expiration Date: _____

Location ID: 474453 Location Name: ALICE SEEDORF 1

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

Signed: _____ Print Name: Jessica DonahueTitle: Compliance Specialist Date: 3/28/2022 Email: jdonahue@ardorenvironmental.

Operator must have a valid water right or permit allowing for industrial use or purchased water from a seller that has a valid water right or permit allowing for industrial use, otherwise an application for a change in type of use is required under Colorado law. Operator must also use the water in the location set forth in the water right decree or well permit, otherwise an application for a change in place of use is required under Colorado law. Section 37-92-103(5), C.R.S. (2011).

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: 8/15/2022

Expiration Date: 08/14/2025

API NUMBER
05 121 11094 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.

Condition of Approval

<u>COA Type</u>	<u>Description</u>
Drilling/Completion Operations	Bradenhead tests shall be performed and reported according to the following schedule and Form 17 submitted within 10 days of each test.: 1) Within 60 days of rig release. 2) Delayed completion: 6 months after rig release. 3) A post-production test within 60 days after first sales, as reported on the Form 10, Certificate of Clearance.
Drilling/Completion Operations	1) Submit Form 42 electronically to COGCC 2 business days prior to MIRU (spud notice) for the first well activity with a rig on the pad and provide 2 business day spud notice via Form 42 for all subsequent wells drilled on the pad. 2) Comply with Rule 408.j. and provide cement coverage from TD to a minimum of 500' above Niobrara. Verify coverage with a cement bond log. Note changed TOC in casing table from value submitted. Adjust cement volume accordingly. 3) Drill Stem Tests that do not allow formation fluids to flow to the surface will be allowed as described in the Operator's BMP. 4) If dry hole, set 40 sks cement at top of J-Sand, set 40 sks cement at top of D-Sand, set 40 sks cement at top of Niobrara, 40 sks across any DST w/ show, 40 sks at 1500', 50 sks cement 1/2 out, 1/2 in surface casing, 15 sks cement top of surface casing, cut 4' below GL, weld on plate, 5 sks cement in rat hole & 5 sks cement in mouse hole. 5) Prior approval from COGCC is required for fracture stimulation of this well.
2 COAs	

Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
1	Drilling/Completion Operations	Open-hole resistivity log with gamma ray will be run from TD into the surface casing. A cement bond log with gamma ray will be run on production casing, or on intermediate casing if a production liner is run. The Form 5, Completion Report, will list all logs run and have those logs attached.
2	Drilling/Completion Operations	DST's are planned for this well and results will be submitted with the Form 5 Completion Report. Any DST will be conducted with the drillpipe shutin at the surface. Any fluids that do enter the drill pipe will be reversed out before tripping out of the hole. Per Rule 903.b.(1) Reversed out fluids will be collected at the surface, stored in tanks, and processed and disposed of accordingly.

Total: 2 comment(s)

Attachment List

<u>Att Doc Num</u>	<u>Name</u>
402992016	FORM 2 SUBMITTED
402993716	LEGAL/LEASE DESCRIPTION

402993718	SURFACE AGRMT/SURETY
402993719	WELL LOCATION PLAT
402993774	OffsetWellEvaluations Data
403135417	OFFSET WELL EVALUATION

Total Attach: 6 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed.	08/05/2022
Engineer	Surface casing check complete - Deepest water well within 1 mile is 355' 408.t - No wells 408.u - No wells Engineering review complete	08/03/2022
OGLA	The Location and its associated Form 2A materials was fully reviewed during the review of this APD. This APD complies with all COGCC Rules and is adequately protective of public health, safety, welfare, the environment, and wildlife resources. OGLA task passed.	05/09/2022
Permit	Corrected SHL qtrqtr (typo) and corrected 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 to 5280 (no other producing wells in this lease).	04/29/2022

Total: 4 comment(s)