

Base of Productive Zone (BPZ)

Sec: 24 Twp: 2S Rng: 98W Footage at BPZ: 250 FNL 1732 FWL
 Measured Depth of BPZ: 6507 True Vertical Depth of BPZ: 6077 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 24 Twp: 2S Rng: 98W Footage at BHL: 250 FNL 1732 FWL
 FNL/FSL FEL/FWL

LOCAL GOVERNMENT PERMITTING INFORMATION

County: RIO BLANCO 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: Approved Date of Final Disposition: 04/29/2022

Comments: Rio Blanco County Oil or Gas Well Pad Special Use/Building Permit: COGW-0002-22

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 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.)

T2S-R97W
 SEC 18: S2NE4, E2W2, SE4, LOTS 1-4
 T2S-R98W
 SEC 12: N2SW4, S2NW4, SW4NE4, NE4NW4, LOTS 17-20
 SEC 13: LOTS 1-12, SW4
 SEC 14: E2SE4, LOTS 1, 8
 SEC 23: E2NE4, N2SE4, SW4NE4
 SEC 24: N2, N2S2

Total Acres in Described Lease: 2371 Described Mineral Lease is: Fee State Federal Indian

Federal or State Lease # COC0003453

SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 5280 Feet
 Building Unit: 5280 Feet
 Public Road: 4819 Feet
 Above Ground Utility: 5102 Feet
 Railroad: 5280 Feet
 Property Line: 4947 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.)
ILES	ILES	1-229		
WILLIAMS FORK	WMFK	1-229		

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: 2996 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: 381 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: 11850 Feet

TVD at Proposed Total Measured Depth 11377 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: 517 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? No

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	30	20	X-65	78.67	0	80	230	80	0
SURF	17+1/2	13+3/8	J-55	54.5	0	1362	445	1362	0
1ST	12+1/4	9+5/8	J-55	36	0	3150	154	3150	2150
2ND	8+3/4	4+1/2	P-110	11.6	0	11850	993	11850	6307

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	UINTA	30	30	887	880	501-1000	Produced Water Sample	
Groundwater	GRRV	887	880	1042	1030	501-1000	Produced Water Sample	
Subsurface Hazard	GRRV A GROOVE	1042	1030	1243	1220			
Subsurface Hazard	GRRV B GROOVE	1243	1220	1578	1530			
Subsurface Hazard	GRRV DISSOLUTION SURF	1578	1530	2326	2220			Potential Loss Zone
Confining Layer	GARDEN GULCH	2326	2220	2521	2400			
Confining Layer	GRRV ORANGE	2521	2400	2608	2480			
Confining Layer	U WASATCH	2608	2480	4906	4600			
Hydrocarbon	G SAND	4906	4600	5356	5015			Potential Loss Zone/Non-Productive Zone
Hydrocarbon	FT UNION	5356	5015	6207	5800			
Confining Layer	L WASATCH	6207	5800	6507	6077			
Hydrocarbon	OHIO CREEK	6507	6077	7264	6797			
Hydrocarbon	U MESAVERDE	7264	6797	8070	7597			
Hydrocarbon	KMVGAS	8070	7597	9640	9167			
Hydrocarbon	CAMEO	9640	9167	10370	9897			
Hydrocarbon	ROLLINS	10370	9897	10520	10047			
Hydrocarbon	COZZETTE	10520	10047	10845	10372			
Hydrocarbon	CORCORAN	10845	10372	11105	10632			
Hydrocarbon	UPPER SEGO	11105	10632	11350	10877			
Hydrocarbon	LOWER SEGO	11350	10877	11850	11377			

OPERATOR COMMENTS AND SUBMITTAL

Comments: Nearest permitted or completed well in same formation: Federal RG 321-24-298 (Doc #402988813).

The Federal OG Colo 03435 # 9 well (05-103-05161) was used for the distance from the proposed wellbore to nearest existing or proposed wellbore belonging to another operator (AC Report).

OGDP Application (Docket #220500097) and Form 2A (Doc #402932454) approved on 09/21/2022.

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

Oil and Gas Development Plan Name Ryan Gulch Phase 2 OGDP ID#: 482485

Location ID: 315513

Public Comments

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

