MID-CONTINENT ENERGY EXCHANGE

Oil & Gas Asset Auctions



Lot 5915 Data Packet

Blehm West 6X-HC-07-07-67 with 7 Permits

Royalty Interest in Weld County, CO

In this Document:

Lot Summary
Income and Expenses
Production
Misc.
Outgoing Conveyance



BidEx Lot #5915

Lease Name: Blehm West 6X-HC-07-07-67 with 7 Permits

County/State: Weld, CO

Asset Type: Royalty Interest

Legal Description: Sec 7 & 8-7N-67W (see outgoing conveyance for full description)

API: 05-123-51531

Decimal Interest: 0.00001275

Net Monthly Income: \$0.00

Operator: Prairie Operating Co LLC (was Nickel Road Operating, LLC)

Disclaimer: Bidders must conduct their own due diligence prior to bidding at the auction. Bidders shall rely upon their own evaluations of the properties and not upon any representation either oral or written provided here. This is a summary of information provided by the seller to Mid-Continent Energy Exchange.



Summary

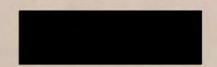
Net Income: One check for \$5.92 has been received.

NICKEL ROAD OPERATING 3773 CHERRY CREEK NORTH DRIVE SUITE 670 DENVER CO 80209

REVENUE CHECK DETAIL REMITTANCESTATEMENT

OWNER:
OWNER ID:
PAYMENT DATE: 10/31/2023
CHECK NO: 7318

ACCT: UMB NICKEL ROAD CHECKING



	PROD	PRICE	8/8 VOLUME		8/8 VALUE	OWNER INT	OWNER SHARE	100	WNER
Property:	1152		BLEHM WEST-6X-HC-07-	07-67		County: WELD		State:	со
0723	GAS	2.14	. 811 BTU: 1	1.0000 Value:	1,735.46	0.00001275 R	0.02		
							Subtotal		0.02
0723	GAS		0 BTU: 1	.0000 Value:	0.00	0.00001275 R	0.00		
			Deductions	Gathering	-708.64	0.00001275 R	-0.01		
							Subtotal		-0.01
0723	NGL	0.41	5,482.71	Value:	2,234.21	0.00001275 R	0.03		
							Subtotal		0.03
0723	NGL		0.00	Value:	0.00	0.00001275 R	0.00		
			Deductions:	Gathering	-912.29	0.00001275 R	-0.01		
							Subtotal		-0.01
0723	CON	71.11	1.89	Value:	134.39	0.00001275 R	0.00		
							Subtotal		0.00
0723	OIL	74.78	3,304.27	Value:	247,108.56	0.00001275 R	3.15		
			Deductions:	Severance Tax	-2,363.05	0.00001275 R	-0.03		
				Ad Valorem Tax	-16,541.36	0.00001275 R	-0.22		
				Oil Deduct	-4,947.50	0.00001275 R	-0.06		
							Subtotal		2.84
0823	DIL	80.07	3,273.61	Value:	262,120.54	0.00001275 R	3.35		
			Deductions:	Severance Tax	-2,506.71	0.00001275 R	-0.04		
				Ad Valorem Tax	-15,040.27	0.00001275 R	-0.19		
				Conserv Tax	-393.18	0.00001275 R	-0.01		
				Oil Deduct	-5,237.71	0.00001275 R	-0.06		
					0,207.77	0.00001270 K			
							Subtotal		3.05
							Check Total:		5.9

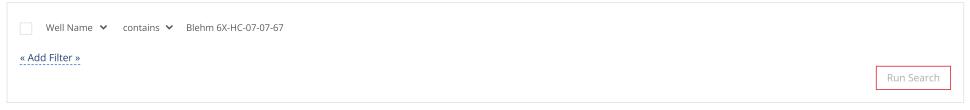


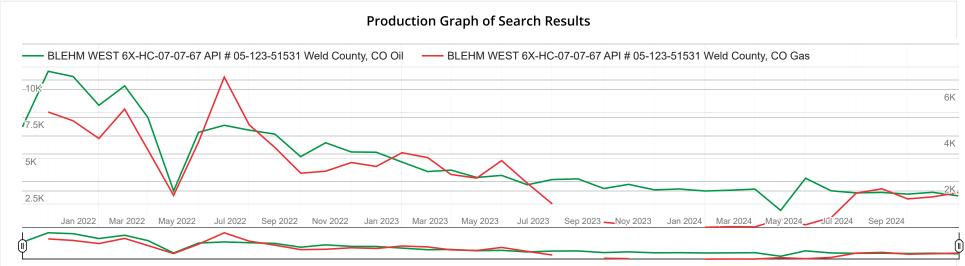
	Value	Tax	Other	Netted	WH	Payment
Owner Totals:	6.55	0.49	0.14	0.00	0.00	5.92





Well Production Search





★ Focus Display	all Display 🕶		▲ Downloa					
		BLEHM WEST 6X-HC-07-07-67						
Date		API # 05-123-51531	API # 05-123-51531 Weld County, CO					
Date		Weld County, CO						
		Oil Prod (BBLs)	Gas Prod (MCF)					
Nov 2024		2,144	1,516					
Oct 2024		2,386	1,329					
Sep 2024		2,264	1,239					
Aug 2024		2,378	1,681					
Jul 2024		2,347	1,492					
Date		BLEHM WEST 6X-HC-07-07-67						
		API # 05-123-51531						
		Weld County, CO						

Date	BLEHM WEST 6X-HC-07-07-67 API # 05-123-51531 Weld County, CO						
	Oil Prod (BBLs)	Gas Prod (MCF)					
Jun 2024	2,486	428					
May 2024	3,344	113					
Apr 2024	1,155	362					
Mar 2024	2,605	22					
Feb 2024	2,531	31					
Jan 2024	2,476	3					
Dec 2023	2,612	0					
Nov 2023	2,553	0					
Oct 2023	2,927	120					
Sep 2023	2,646	222					
Aug 2023	3,300	0					
Jul 2023	3,257	1,021					
Jun 2023	2,900	1,923					
May 2023	3,539	2,908					
Apr 2023	3,398	2,146					
Mar 2023	3,899	2,305					
Feb 2023	3,798	3,038					
Jan 2023	4,446	3,252					
Dec 2022	5,115	2,655					
Nov 2022	5,133	2,825					
Oct 2022	5,760	2,446					
Sep 2022	4,813	2,361					
Aug 2022	6,349	3,478					
Jul 2022	6,620	4,468					
Jun 2022	6,948	6,547					
May 2022	6,470	3,715					
Apr 2022	2,480	1,394					
Mar 2022	7,483	3,374					
Feb 2022	9,632	5,154					
Date	BLEHM WEST 6X-HC-07-07-67 API # 05-123-51531 Weld County, CO						

Date	BLEHM WEST 6X-HC-07-07-67 API # 05-123-51531 Weld County, CO	API#05-123-51531					
	Oil Prod (BBLs)	Gas Prod (MCF)					
Jan 2022	8,313	3,873					
Dec 2021	10,267	4,642					
Nov 2021	10,626	5,027					
Oct 2021	6,841	0					
Sep 2021	0	0					
Aug 2021	0	0					
Jul 2021	0	0					
Jun 2021	0	0					
May 2021	0	0					
Apr 2021	0	0					
Date	BLEHM WEST 6X-HC-07-07-67 API # 05-123-51531 Weld County, CO	API # 05-123-51531					



FORM 2

State of Colorado





Document Number:

402576450

Phone: (303) 894-2100 Fax: (303) 894-2109
APPLICATION FOR PERMIT TO: Date Received:` 01/27/2021
X Drill Deepen Re-enter Recomplete and Operate Amend
TYPE OF WELL OIL X GAS COALBED OTHER:
ZONE TYPE SINGLE ZONE X MULTIPLE ZONES COMMINGLE ZONES Sidetrack
Well Name: BLEHM WEST Well Number: 1X-HNB-07-07-67
Name of Operator: NICKEL ROAD OPERATING LLC COGCC Operator Number: 10669
Address: 1600 STOUT STREET SUITE 1850
City: DENVER State: CO Zip: 80202
Contact Name: JENNIFER LIND Phone: (303)406-1117 Fax: ()
Email: JENNIFER.LIND@NICKELROADOPERATING.COM
RECLAMATION FINANCIAL ASSURANCE
Plugging and Abandonment Bond Surety ID: 20200034
WELL LOCATION INFORMATION
Surface Location
QtrQtr:_NENESec:9Twp:7NRng:_67WMeridian:6
FNL/FSL FEL/FWL
Footage at Surface: 350 Feet FNL 652 Feet FEL
Latitude: 40.594996 Longitude: -104.890975 GPS Data: GPS Quality Value: 1.8 Type of GPS Quality Value: PDOP Date of Measurement: 12/07/2017
Type of dr3 quality value. 1201
Ground Elevation:5088 Field Number: 90750
Well Plan: is Directional X Horizontal (highly deviated) Vertial
If Well plan is Directional or Horizontal attach Deviated Drilling Plan and Directional Data. Subsurface Locations
Top of Productive Zone (TPZ)
Sec: 8 Twp: 7N Rng: 67W Footage at TPZ: 480 FNL 460 FEL
Measured Depth of TPZ: 9236 True Vertical Depth of TPZ: 6925 FNL/FSL FEL/FWL
Base of Productive Zone (BPZ)
Sec: 7 Twp: 7N Rng: 67W Footage at TPZ: 480 FNL 460 FWL Massured Death of TPZ: 4840 FNL/FSL FEL/FWL
Measured Depth of TPZ: 18480 True Vertical Depth of TPZ: 6920
Bottom Hole Location (BHL)
Sec: 7 Twp: 7N Rng: 67W Footage at BHL: 480 FNL 460 FWL
FNL/FSL FEL/FWL

LOCAL GOVERNMENT PERMITTING INFORMATION

County: WELD		Municipality	/: N/A						
Is the Surface Location of this Well	in an area de	esignated as one	of State intere	st and subje	ct to the require	ements of §			
24-65.1-108 C.R.S.? Yes									
Per § 34-60-106(1)(f)(I)(A) C.R.S., 1 proposed Oil and Gas Location.	he following	questions pertain	to the Relevar	it Local Gov	ernment approv	al of the siting o	of the		
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 Governme	ent regulate th	ne siting of Oil and	d Gas Location	s, with resp	ect to this Loca	tion? X Ye	es No		
If yes, in checking this box, I I the siting of the proposed oil a	— If you in chacking this hay I haraby cartify that an application has been filed with the local government with jurisdiction to approve								
The disposition of the application file	ed with the R	elevant Local Gov	vernment is:	Approved	Date of Fin	al Disposition:	09/03/2020		
Comments: 1041WOGLA20-0076	3								
SURFACE AND MINERAL C	WNERSH	IP AT WELL'S	OIL & GAS	i					
LOCATION									
Surface Owner of the land at this W	ell's Oil and	Gas Location:	X Fee	State	Federal	Indian			
Mineral Owner beneath this Well's			X Fee	State	Federal	Indian			
Surface Owner Protection Financial	Assurance (if applicable):		Su ——	rety ID Number	(if applicable):			
MINERALS DEVELOPED WELL	BY								
The ownership of all the mineral X Fee State Federal Indian N/A LEASE INFORMATION Using standard QtrQtr, Section, To this Well is within a unit, described to a unit (Attach a Lease Map or Lease Described Lease Map Total Acres in Described Lease: Federal or State Lease #	ownship, Ran ibe a lease th t, describe th	ge format describ lat will be develop e lease that will b ease if necessary.	e one entire m ed by the Wel e produced by	ineral lease the Well.		Federal	Indian		
SAFETY SETBACK INFORMATION									
Distance from Well to nearest:				INSTRUCT					
Building:	2117	Feet			II distances per R 80 for distance gr	ule 308.b.(1). eater than 1 mile	ı.		
Building Unit:	2117	Feet		- Building	- nearest building	g of any type. If ne	earest		
Public Road:	338	Feet		Building is both.	a Building Unit, o	enter same distan	nce for		
Above Ground Utility:	307	Feet			Unit – as defined	in 100 Series Rule	es.		
Railroad:	5280	Feet							

Prop	erty Line:	329 Feet		
OBJECTIVE FORM	ATIONS			
Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
NIOBRARA	NBRR	407-2769	1280	SEC.7&8:ALL
Federal or State Unit	Name (if appl):		U	nit Number:
SUBSURFACE MIN SETBACKS	ERAL	Enter 5280 for dista	nce greater than 1 mile.	
Is this Well within a unit If YES: Enter the minimu Enter the minimu unit permitted or of If NO: Enter the minimum of Enter the minimum of the same lease and	m distance from the m distance from the completed in the sadistance from the Codistance from the Codistanc	Completed Zone of this Well Completed Zone of this Well Completed Zone of this Well colleted in the same formation Rule 401.c Exception Locativers.	Vell to the Completed Zone of a Feet I to the Lease Line of the descri	bed lease: Feet offset Well producing from
Proposed Total Measur Distance from the proposed Enter distance if less the Will a closed-loop drilling Is H2S gas reasonably or equal to 100 ppm?	red Depth:1848 psed wellbore to not an or equal to 1,50 ng system be used? expected to be end reacture treatment a countered during do ppm CI) drilling fluids be used? Annular Preve and application pla	earest existing or proposed 10 feet:935 Feet 10 feet:935	No well belonging to and erations at concentrations greatess a plan was already submitted	operator, including plugged wells: other operator within 1,500 feet

CASING PROGRAM Casing Type Size of Hole Size of Casing Grade Wt/Ft Csg/Liner Top Setting Depth Sacks Cmt Btm Cmt Cmt Top CONDUCTOR 24 16 N/A 42 0 80 100 80 0

	11010	Ousing			<u>10p</u>	Deptii	Oiiit		<u>100</u>
CONDUCTOR	24	16	N/A	42	0	80	100	80	0
SURF	13+1/2	9+5/8	K55	36	0	1500	415	1500	0
1ST	8+1/2	5+1/2	HCP110	20	0	18480	2440	18480	1000

Conductor Casing is NOT planned

POTENTIAL FLOW AND CONFINING FORMATIONS

Zone Type	Formation /Hazard	<u>Тор</u> М.D.	<u>Top</u> T.V.D.	Bottom M.D.	Bottom T.V.D.	<u>TDS</u> (mg/L)	Data Source	Comment
Groundwater	LARAMIE-FOX HILLS	0	0	139	139	1001-10000	Other	CSU - Domestic Water Analysis Report - Larry Moore Well - 176559
Groundwater	UPPER PIERRE	300	300	1314	1314	1001-10000	Other	Water Quality and the Presence and Origin of Methane in the Upper Pierre Aquifer in Northeastern Weld County, Morgan County and Logan County, Colorado COGCC Project Number 2141 October 2017
Confining Layer	PIERRE SHALE	1314	1314	4745	4207			
Hydrocarbon	SUSSEX	4745	4207	5305	4556			
Hydrocarbon	SHANNON	5305	4556	5348	4585			
Confining Layer	PIERRE SHALE	5348	4585	8885	6822			
Hydrocarbon	NIOBRARA	8885	6822	18480	6920			Btm MD=TD, Btm TVD=TVD @ BHL

OPERATOR COMMENTS AND SUBMITTAL

Co	m	m	ei	nts
\sim			σı	110

935'. Distance to nearest wellbore belonging to another operator measured to the RIO GRANDE 8-67-33-4C (ENERPLUS / 05-123-44902 / XX). There are no other operator wells with treated interval less 175' from the treated interval of the proposed well. Distance measured in 2D map view.

			•		
This applic	cation is in a Comprehensive Area Pl	an No	CAP #:		
Oil and Ga	as Development Plan Name			OGDP ID:	#:
Location II	D:478497				
I hereby c	ertify all statements made in this forn	m are, to the best of	my knowledge, t	true, correct, a	nd complete.
Signed:			Print Name:	JENNIFER LI	ND
Title:	VP REG & ENV	Date:	1/27/2021	Email:	JENNIFER.LIND@NICKELRO

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:	2/25/2021				
API NUMBER	Expiration Date:	02/24/2024				
05 123 51534 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.

COA Type	<u>Description</u>
Drilling/Completion Operations	Per COGCC Order 1-232, Bradenhead tests shall be performed according to the following schedule and Form 17 submitted within 10 days of each test: 1) Within 60 days of rig release, prior to stimulation. If any pressure greater than 200 psi, must contact COGCC engineer prior to stimulation. 2) If a delayed completion, 6 months after rig release and prior to stimulation. If any pressure greater than 200 psi, must contact COGCC engineer prior to stimulation. 3) A post-production test within 60 days after first sales, as reported on the Form 10, Certificate of Clearance.
Drilling/Completion Operations	 Submit Form 42 electronically to COGCC 2 business days prior to MIRU (Spud Notice), for the first well/activity on the pad and provide 2 business days spud notice for all subsequent wells drilled on the pad. Comply with Rule 317.j and provide cement coverage from the end of production casing to a minimum of 500' above Niobrara. Verify coverage with cement bond log. Oil-based drilling fluid is to be used only after all aquifers are covered.

Best Management Practices

No	BMP/COA Type	<u>Description</u>
1	Drilling/Completion Operations	Anti-collision: Operator will perform an anti-collision evaluation of all active (producing, shut in, or temporarily abandoned) offset wellbores that have the potential of being within 150 feet of a proposed well prior to drilling operations for the proposed well. Notice shall be given to all offset operators prior to drilling.
2	Drilling/Completion Operations	Alternative Logging Program: One of the first wells drilled on the pad will be logged with Open Hole Resistivity Log and Gamma Ray Log from the kick-off point to into the surface casing. All wells on the pad 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 openhole logs shall clearly state "Alternative Logging Program - No open-hole logs were run" and shall clearly identify (by API#, well name & number) the well in which openhole logs were run.
3	Drilling/Completion Operations	Operator acknowledges and will comply with COGCC policy for Bradenhead Monitoring during Hydraulic Fracturing treatments in the Greater Wattenberg Area dated May 29, 2012.

Total: 3 comment(s)

Applicable Policies and Notices to Operators

Notice Concerning Operating Requirements for Wildlife Protection. http://cogcc.state.co.us/documents/reg/Policies/Wildlife Notice.pdf

Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area. http://cogcc.state.co.us/documents/reg/Policies/PolicyGwaBradenheadMonitoringFinal.pdf

Attachment List

Att Doc Num	<u>Name</u>
402576450	APD APPROVED
402583747	OffsetWellEvaluations Data
402583765	DEVIATED DRILLING PLAN
402583766	WELL LOCATION PLAT
402583767	DIRECTIONAL DATA
402583770	LEASE MAP
402610889	OFFSET WELL EVALUATION
402610890	FORM 2 SUBMITTED
402610903	PUBLIC COMMENT-0

Total Attach: 9 Files

General Comments

User Group	Comment	Comment Date
Permit	Final Review Completed.	02/25/2021
OGLA	This Location and its associated materials was fully reviewed in the review of this APD in accordance with current Rules. See Sundry doc #402591420 in Location #478497 file for additional information. This APD complies with all COGCC Rules and is adequately protective of public health, safety, welfare, the environment, and wildlife resources. OGLA task passed.	02/24/2021
Engineer	Revised distance to nearest non-operated well from 310' to 935', per Operator.	02/23/2021
Permit	Permitting Review Complete.	02/02/2021
Engineer	Offset Wells Evaluated.	02/02/2021

Total: 5 comment(s)

FORM 2

State of Colorado





Document Number:

402576475

APPLICATION FOR PERMIT TO: Date Received: 01/27/2021	Phone: (303) 894-2100 Fax: (303) 894-2109	
TYPE OF WELL OIL	APPLICATION FOR PERMIT TO:	
Value	X Drill Deepen Re-enter Recomplete and Operate	Amend
Well Name: BLEHM WEST	TYPE OF WELL OIL X GAS COALBED OTHER:	Refile
Name of Operator: NICKEL ROAD OPERATING LLC	ZONE TYPE SINGLE ZONE X MULTIPLE ZONES COMMINGLE ZONES	Sidetrack
Address: 1600 STOUT STREET SUITE 1850 City: DENVER State: CO Zip: 80202	Well Name: BLEHM WEST Well Number: 2X-HNC-07-67	
City: DENVER	Name of Operator: NICKEL ROAD OPERATING LLC COGCC Operator Nu	ımber: 10669
Contact Name: JENNIFER LIND	Address: 1600 STOUT STREET SUITE 1850	
RECLAMATION FINANCIAL ASSURANCE	City: DENVER State: CO Zip: 80202	
RECLAMATION FINANCIAL ASSURANCE Plugging and Abandonment Bond Surety ID:	Contact Name: JENNIFER LIND Phone: (303)406-1117 Fax: ()	
Plugging and Abandonment Bond Surety ID:	Email: JENNIFER.LIND@NICKELROADOPERATING.COM_	
WELL LOCATION INFORMATION Surface Location QtrQtr: NENE	RECLAMATION FINANCIAL ASSURANCE	
Surface Location	Plugging and Abandonment Bond Surety ID: 20200034	
Surface Location		
QtrQtr: NENE	WELL LOCATION INFORMATION	
Footage at Surface: 380 Feet FNL 653 Feet FEL	Surface Location	
Footage at Surface: 380 Feet FNL 653 Feet FEL Latitude: 40.594914 Longitude: -104.890981 GPS Data: GPS Quality Value: 1.8 Type of GPS Quality Value: PDOP Date of Measurement: 01/14/2020 Ground Elevation: 5088 Field Name: WATTENBERG Field Number: 90750 Well Plan: is Directional X Horizontal (highly deviated) Vertial If Well plan is Directional or Horizontal attach Deviated Drilling Plan and Directional Data. Subsurface Locations Top of Productive Zone (TPZ) Sec: 8 Twp: 7N Rng: 67W Footage at TPZ: 1097 FNL 460 FEL Measured Depth of TPZ: 9343 True Vertical Depth of TPZ: 7030 FNL/FSL FEL/FWL Base of Productive Zone (BPZ) Sec: 7 Twp: 7N Rng: 67W Footage at TPZ: 1098 FNL 460 FWL Measured Depth of TPZ: 18581 True Vertical Depth of TPZ: 7015 FNL/FSL FEL/FWL Bottom Hole Location (BHL) Sec: 7 Twp: 7N Rng: 67W Footage at BHL: 1098 FNL 460 FWL		
GPS Data: GPS Quality Value: 1.8 Type of GPS Quality Value: PDOP Date of Measurement: 01/14/2020 Ground Elevation: 5088 Field Name: WATTENBERG Field Number: 90750 Well Plan: is Directional X Horizontal (highly deviated) Vertial If Well plan is Directional or Horizontal attach Deviated Drilling Plan and Directional Data. Subsurface Locations Top of Productive Zone (TPZ) Sec: 8 Twp: 7N Rng: 67W Footage at TPZ: 1097 FNL 460 FEL Measured Depth of TPZ: 9343 True Vertical Depth of TPZ: 7030 FNL/FSL FEL/FWL Base of Productive Zone (BPZ) Sec: 7 Twp: 7N Rng: 67W Footage at TPZ: 1098 FNL 460 FWL Measured Depth of TPZ: 18581 True Vertical Depth of TPZ: 7015 FNL/FSL FEL/FWL Bottom Hole Location (BHL) Sec: 7 Twp: 7N Rng: 67W Footage at BHL: 1098 FNL 460 FWL		
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Well Plan: is Directional X Horizontal (highly deviated) Vertial If Well plan is Directional or Horizontal attach Deviated Drilling Plan and Directional Data. Subsurface Locations Top of Productive Zone (TPZ) Sec: 8 Twp: 7N Rng: 67W Footage at TPZ: 1097 FNL 460 FEL Measured Depth of TPZ: 9343 True Vertical Depth of TPZ: 7030 FNL/FSL FEL/FWL Base of Productive Zone (BPZ) Sec: 7 Twp: 7N Rng: 67W Footage at TPZ: 1098 FNL 460 FWL Measured Depth of TPZ: 18581 True Vertical Depth of TPZ: 7015 FNL/FSL FEL/FWL Bottom Hole Location (BHL) Sec: 7 Twp: 7N Rng: 67W Footage at BHL: 1098 FNL 460 FWL	Ground Elevation: 5088	
If Well plan is Directional or Horizontal attach Deviated Drilling Plan and Directional Data. Subsurface Locations Top of Productive Zone (TPZ) Sec: 8 Twp: 7N Rng: 67W Footage at TPZ: 1097 FNL 460 FEL Measured Depth of TPZ: 9343 True Vertical Depth of TPZ: 7030 FNL/FSL FEL/FWL Base of Productive Zone (BPZ) Sec: 7 Twp: 7N Rng: 67W Footage at TPZ: 1098 FNL 460 FWL Measured Depth of TPZ: 18581 True Vertical Depth of TPZ: 7015 FNL/FSL FEL/FWL Bottom Hole Location (BHL) Sec: 7 Twp: 7N Rng: 67W Footage at BHL: 1098 FNL 460 FWL	Field Name: WATTENBERG Field Number: 90750	
If Well plan is Directional or Horizontal attach Deviated Drilling Plan and Directional Data. Subsurface Locations Top of Productive Zone (TPZ) Sec: 8 Twp: 7N Rng: 67W Footage at TPZ: 1097 FNL 460 FEL Measured Depth of TPZ: 9343 True Vertical Depth of TPZ: 7030 FNL/FSL FEL/FWL Base of Productive Zone (BPZ) Sec: 7 Twp: 7N Rng: 67W Footage at TPZ: 1098 FNL 460 FWL Measured Depth of TPZ: 18581 True Vertical Depth of TPZ: 7015 FNL/FSL FEL/FWL Bottom Hole Location (BHL) Sec: 7 Twp: 7N Rng: 67W Footage at BHL: 1098 FNL 460 FWL	Well Plan: is Directional X Horizontal (highly deviated) Vertial	
Top of Productive Zone (TPZ) Sec: 8 Twp: 7N Rng: 67W Footage at TPZ: 1097 FNL 460 FEL Measured Depth of TPZ: 9343 True Vertical Depth of TPZ: 7030 FNL/FSL FEL/FWL Base of Productive Zone (BPZ) Sec: 7 Twp: 7N Rng: 67W Footage at TPZ: 1098 FNL 460 FWL Measured Depth of TPZ: 18581 True Vertical Depth of TPZ: 7015 FNL/FSL FEL/FWL Bottom Hole Location (BHL) Sec: 7 Twp: 7N Rng: 67W Footage at BHL: 1098 FNL 460 FWL		
Sec: 8 Twp: 7N Rng: 67W Footage at TPZ: 1097 FNL 460 FEL Measured Depth of TPZ: 9343 True Vertical Depth of TPZ: 7030 FNL/FSL FEL/FWL Base of Productive Zone (BPZ) Sec: 7 Twp: 7N Rng: 67W Footage at TPZ: 1098 FNL 460 FWL Measured Depth of TPZ: 18581 True Vertical Depth of TPZ: 7015 FNL/FSL FEL/FWL Bottom Hole Location (BHL) Sec: 7 Twp: 7N Rng: 67W Footage at BHL: 1098 FNL 460 FWL	Subsurface Locations	
Measured Depth of TPZ:9343	Top of Productive Zone (TPZ)	
Base of Productive Zone (BPZ) Sec: 7 Twp: 7N Rng: 67W Footage at TPZ: 1098 FNL 460 FEL/FWL Measured Depth of TPZ: 18581 True Vertical Depth of TPZ: 7015 FNL/FSL Bottom Hole Location (BHL) Sec: 7 Twp: 7N Rng: 67W Footage at BHL: 1098 FNL 460 FWL Fel/FWL Footage at BHL: 1098 FNL 460 FWL FOOTage at BHL: 1098 FWL 460 FWL FOOTage at BHL: 1098 FWL	Sec: 8 Twp: 7N Rng: 67W Footage at TPZ: 1097 FNL	460FEL
Sec: 7 Twp: 7N Rng: 67W Footage at TPZ: 1098 FNL 460 FWL Measured Depth of TPZ: 18581 True Vertical Depth of TPZ: 7015 FNL/FSL FEL/FWL Bottom Hole Location (BHL) Sec: 7 Twp: 7N Rng: 67W Footage at BHL: 1098 FNL 460 FWL	Measured Depth of TPZ: 9343 True Vertical Depth of TPZ: 7030 FNL/FS	SL FEL/FWL
Measured Depth of TPZ:18581 True Vertical Depth of TPZ:7015 FNL/FSL FEL/FWL Bottom Hole Location (BHL) Sec:7 Twp:7N Rng:67W Footage at BHL: 1098 FNL 460 FWL FUL FRU FRU FRU FUL FRU FUL FUL FUL FUL	Base of Productive Zone (BPZ)	
Bottom Hole Location (BHL) Sec:7Twp:7N Rng:67W Footage at BHL:1098 FNL460 FWL		
Sec: 7 Twp: 7N Rng: 67W Footage at BHL: 1098 FNL 460 FWL	Measured Depth of TPZ: 18581 True Vertical Depth of TPZ: 7015	SL FEL/FWL
	Bottom Hole Location (BHL)	
FNL/FSL FEL/FWL	Sec:7 Twp:7N Rng:67W Footage at BHL:1098 FNI	460FWL
	FNL/FS	L FEL/FWL

LOCAL GOVERNMENT PERMITTING INFORMATION

County: WELD	Municipalit	y: N/A				
Is the Surface Location of this Well	in an area designated as one	of State interest	and subje	ct to the require	ments of §	
24-65.1-108 C.R.S.? Yes						
Per § 34-60-106(1)(f)(l)(A) C.R.S., proposed Oil and Gas Location.	the following questions pertain	to the Relevant L	_ocal Gov	ernment approv	al of the siting	of the
SB 19-181 provides that when "app permit and the disposition of that pe (A) C.R.S.						
Does the Relevant Local Governme	ent regulate the siting of Oil an	d Gas Locations,	with respe	ect to this Locat	ion? X Ye	es No
X If yes, in checking this box, I the siting of the proposed oil	nereby certify that an application	on has been filed	with the lo	ocal governmen	t with jurisdiction	on to approve
The disposition of the application fil	ed with the Relevant Local Go	overnment is: Ap	oproved	Date of Fina	al Disposition:	09/03/2020
Comments: 1041WOGLA20-0076	6					
SURFACE AND MINERAL C	OWNERSHIP AT WELL'S	S OIL & GAS				
LOCATION						
Surface Owner of the land at this W	ell's Oil and Gas Location:	X Fee	State	Federal	Indian	
Mineral Owner beneath this Well's	Oil and Gas Location:	X Fee	State	Federal	Indian	
Surface Owner Protection Financial	Assurance (if applicable):		Sur —	ety ID Number	(if applicable):	
MINERALS DEVELOPED WELL) BY					
State State Federal Indian N/A LEASE INFORMATION Using standard QtrQtr, Section, To this Well is within a unit, descrot if this Well is not subject to a unit (Attach a Lease Map or Lease Description) SEE ATTACHED LEASE MAP	ibe a lease that will be develor t, describe the lease that will b	ped by the Well. be produced by th		as follows:		
Total Acres in Described Lease:	142 Described M	lineral Lease is:	X Fee	State	Federal	Indian
Federal or State Lease #				_		
SAFETY SETBACK INFORMATION						
Distance from Well to nearest:			INSTRUCTI	ONS:		
Building:	2109 Feet			l distances per Ru		
Building Unit:	2109 Feet			O for distance grong nearest building		I
Public Road:	368 Feet		Building is	a Building Unit, e		I
Above Ground Utility:	337 Feet		both Building U	Jnit – as defined	in 100 Series Rul	es.
Railroad:	5280 Feet					
Kaiiloau.		L				

Prop	erty Line:	359 Feet					
OBJECTIVE FORM	ATIONS						
Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)			
NIOBRARA	NBRR	407-2769	1280	SEC.7&8:ALL			
Federal or State Unit	Name (if appl):		U	nit Number:			
SUBSURFACE MINI SETBACKS	ERAL	Enter 5280 for dista	nce greater than 1 mile.				
Is this Well within a unit If YES: Enter the minimu		e Completed Zone of this V	Vell to the Unit Boundary:	460 Feet			
	m distance from the sa	•	Vell to the Completed Zone of a	n offset Well within the same			
If NO:							
Enter the minimum of	Enter the minimum distance from the Completed Zone of this Well to the Lease Line of the described lease: Feet						
Enter the minimum of	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 comp	oleted in the same formation	n: Feet				
Exception Location If this Well requires Exception Location SPACING & FORMA	Request and Waiv	vers	ion, enter the Rule or spacing o	order number and attach the			
DRILLING PROGRA	M						
Proposed Total Measur	ed Depth: 1858	1 Feet TV	'D at Proposed Total Measured	Depth 7015 Feet			
Distance from the propo	osed wellbore to ne	earest existing or proposed	wellbore belonging to another of	operator, including plugged wells:			
Enter distance if less that	an or equal to 1,50	00 feet: 1025 Feet	No well belonging to and	other operator within 1,500 feet			
Will a closed-loop drillin	g system be used	? Yes					
or equal to 100 ppm?	No If yes, attarracture treatment a	ach an H2S Drilling Plan unle at a depth less than 2,000 fo rilling?No		er than with the Form 2A per Rule 304.c.(10).			
Will oil based drilling flu	ids be used?	Yes	_				
BOP Equipment Type:	Annular Preve	ntor 🔽 Double Ram	Rotating Head	None			
Beneficial reuse or la	and application pla	n submitted? No					
Reuse Facility ID:_		or Document Number:					

CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	<u>Grade</u>	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	<u>Cmt</u> Top
CONDUCTOR	24	16	N/A	42	0	80	100	80	0
SURF	13+1/2	9+5/8	K55	36	0	1500	415	1500	0
1ST	8+1/2	5+1/2	HCP110	20	0	18581	2400	18581	1000

Conductor Casing is NOT planned

POTENTIAL FLOW AND CONFINING FORMATIONS

Zone Type	Formation /Hazard	<u>Top</u> <u>M.D.</u>	<u>Top</u> T.V.D.	Bottom M.D.	Bottom T.V.D.	<u>TDS</u> (mg/L)	Data Source	Comment
Groundwater	LARAMIE-FOX HILLS	0	0	139	139	1001-10000	Other	Data Source: CSU - Domestic Water Analysis Report - Larry Moore Well - 176559
Groundwater	UPPER PIERRE	300	300	1314	1314	1001-10000	Other	Water Quality and the Presence and Origin of Methane in the Upper Pierre Aquifer in Northeastern Weld County, Morgan County and Logan County, Colorado COGCC Project Number 2141 October 2017
Confining Layer	PIERRE SHALE	1314	1314	4776	4224			
Hydrocarbon	SUSSEX	4776	4224	5314	4573			
Hydrocarbon	SHANNON	5314	4573	5362	4602			
Confining Layer	PIERRE SHALE	5362	4602	8845	6839			
Confining Layer	NIOBRARA	8845	6839	18581	7015			Btm MD=TD, Btm TVD=TVD @ BHL

OPERATOR COMMENTS AND SUBMITTAL

Comments	Distance revised rom 250	' to 1025' per operator. D	IS

Distance to nearest wellbore belonging to another operator measured to the RIO GRANDE 8-67-33-4C (ENERPLUS / 05-123-44902 / XX). There are no other operator wells with treated interval less 175' from the treated interval of the proposed well. Distance measured in 2D map view.

This applic	cation is in a Comprehensive Area Plan	No	CAP #:		
Oil and Ga	as Development Plan Name			OGDP ID#	t:
Location II	D:478497				
I hereby o	certify all statements made in this form are	e, to the best of	my knowledge,	true, correct, an	nd complete.
Signed:			Print Name:	JENNIFER LIN	ND
Title:	VP REG & ENV	Date:	1/27/2021	Email:	JENNIFER.LIND@NICKELRO

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 here SB 19-181 and is hereby approved.	in, this Application for Permit-to-Drill complies with COGCO	C Rules, applicable orders, and
COGCC Approved:	Director of COGCC Date:	2/25/2021
API NUMBER	Expiration Date:	02/24/2024
05 123 51530 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.

COA Type	<u>Description</u>
Drilling/Completion Operations	Per COGCC Order 1-232, Bradenhead tests shall be performed according to the following schedule and Form 17 submitted within 10 days of each test: 1) Within 60 days of rig release, prior to stimulation. If any pressure greater than 200 psi, must contact COGCC engineer prior to stimulation. 2) If a delayed completion, 6 months after rig release and prior to stimulation. If any pressure greater than 200 psi, must contact COGCC engineer prior to stimulation. 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 on the pad and provide 2 business days spud notice for all subsequent wells drilled on the pad. 2) Comply with Rule 317.j and provide cement coverage from the end of production casing to a minimum of 500' above Niobrara. Verify coverage with cement bond log. 3) Oil-based drilling fluid is to be used only after all aquifers are covered.

Best Management Practices

No BMP/COA Type	<u>Description</u>
1 Drilling/Completion Operations	Anti-collision: Operator will perform an anti-collision evaluation of all active (producing, shut in, or temporarily abandoned) offset wellbores that have the potential of being within 150 feet of a proposed well prior to drilling operations for the proposed well. Notice shall be given to all offset operators prior to drilling.
2 Drilling/Completion Operations	Alternative Logging Program: One of the first wells drilled on the pad will be logged with Open Hole Resistivity Log and Gamma Ray Log from the kick-off point to into the surface casing. All wells on the pad 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 openhole logs shall clearly state "Alternative Logging Program - No open-hole logs were run" and shall clearly identify (by API#, well name & number) the well in which openhole logs were run.
3 Drilling/Completion Operations	Operator acknowledges and will comply with COGCC policy for Bradenhead Monitoring during Hydraulic Fracturing treatments in the Greater Wattenberg Area dated May 29, 2012.

Total: 3 comment(s)

Applicable Policies and Notices to Operators

Notice Concerning Operating Requirements for Wildlife Protection. http://cogcc.state.co.us/documents/reg/Policies/Wildlife Notice.pdf

Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area. http://cogcc.state.co.us/documents/reg/Policies/PolicyGwaBradenheadMonitoringFinal.pdf

Attachment List

Att Doc Num	<u>Name</u>
402576475	APD APPROVED
402584726	OffsetWellEvaluations Data
402584730	DEVIATED DRILLING PLAN
402584731	WELL LOCATION PLAT
402584732	DIRECTIONAL DATA
402584733	LEASE MAP
402610884	OFFSET WELL EVALUATION
402610891	FORM 2 SUBMITTED
402610898	PUBLIC COMMENT-0

Total Attach: 9 Files

General Comments

User Group	Comment	Comment Date
Permit	Final Review Completed.	02/25/2021
OGLA	This Location and its associated materials was fully reviewed in the review of this APD in accordance with current Rules. See Sundry doc #402591420 in Location #478497 file for additional information. This APD complies with all COGCC Rules and is adequately protective of public health, safety, welfare, the environment, and wildlife resources. OGLA task passed.	02/24/2021
Engineer	Revised distance to neareest non-operated well from 250' to 1025', per operator.	02/24/2021
Permit	Permitting Review Complete.	02/02/2021
Engineer	Offset Wells Evaluated.	02/02/2021

Total: 5 comment(s)

FORM 2 Rev

State of Colorado





Document Number:

402576482

12/20	Phone: (303)	894-2100 Fax: (303)	894-2109	TM DNR		
	APPLICA ⁻	TION FOR PERM	Л ІТ ТО:		Date Rece	ived:` 7/2021
X Drill	Deepen	Re-enter	Recomplete and	Operate	Amend]
TYPE OF WEL	L OIL X GAS	COALBED (OTHER:		Refile]
ZONE TYPE	SINGLE ZONE X	MULTIPLE ZONES	COMMINGLE ZONES		Sidetrack]
Well Name: BL	EHM WEST		Well Number: 3X-HC	C-07-07-67		
Name of Opera	tor: NICKEL ROAD OPE	ERATING LLC	COC	GCC Operator N	umber: 1(0669
Address: 1600	STOUT STREET SUITE	1850				
City: D	ENVER St	ate: CO	Zip: 80202			
Contact Name:	JENNIFER LIND	Phon	e: <u>(303)406-1117</u> Fax: <u>(</u>)		
Email:	JENNIFER.LIND@NIC	KELROADOPERATIN	G.COM_			
RECLAMATI	ON FINANCIAL AS	SURANCE				
Plugging and Ab	pandonment Bond Surety	/ ID:20200034				
WELL LOCA	TION INFORMATIO	ON				
Surface Location	on					
QtrQtr: NENE	Sec: _9		6 Meridian: 6	_		
Footage at	Surface: 410	FNL/FSL Feet FNL	FEL/FWL 655 Feet FEL			
	40.594831		ude: -104.890987			
GPS Data:	GPS Quality Value: 1	_	uality Value: PDOP	Date of M	easurement: 1	1/14/2020
Ground Elevation					_	
Field Name: V		Field Nu	umber: 90750			
Woll Plan: is	Directional	———— Horizontal (highly devi	atod) Vortial			
Well Plan: is	_		ated)	onal Data		
Subsurface Loc	-		Seviated Stilling Flath and Sheet.	onai bata.		
Top of Producti						
Sec	c: 8 Twp: 7N	l Rng: 67W	Footage at TPZ:	1717 FN	L 460	FEL
Me	asured Depth of TPZ:	9506	True Vertical Depth of TPZ:	7140 FNL/F	SL	FEL/FWL
Base of Produc	ctive Zone (BPZ)					
Se		N Rng: 67W	Footage at TPZ:	1717 FN	L 460	FWL
	easured Depth of TPZ:		True Vertical Depth of TPZ:	ENII /E		FEL/FWL
Bottom Hole Lo	_		·			
Se		N Rng: 67W	Footage at BHL:	1717 FN	L 460	FWL
			_	FNL/F	SL	FEL/FWL

LOCAL GOVERNMENT PERMITTING INFORMATION

County: WELD		Municipality	/: N/A				
Is the Surface Location of this Well	in an area d	esignated as one	of State intere	st and subje	ect to the require	ements of §	
24-65.1-108 C.R.S.? Yes							
Per § 34-60-106(1)(f)(I)(A) C.R.S., 1 proposed Oil and Gas Location.	he following	questions pertain	to the Relevar	nt Local Gov	ernment approv	al of the siting o	of the
SB 19-181 provides that when "app permit and the disposition of that pe (A) C.R.S.							
Does the Relevant Local Governme	ent regulate th	ne siting of Oil and	d Gas Location	s, with resp	ect to this Locat	tion? X Ye	es No
If yes, in checking this box, I I the siting of the proposed oil a	nereby certify and gas locat	that an application.	on has been fil	ed with the l	ocal governmen	nt with jurisdictio	n to approve
The disposition of the application file	ed with the R	elevant Local Gov	vernment is:	Approved	Date of Fin	al Disposition:	09/03/2020
Comments: 1041WOGLA20-0076	3						
SURFACE AND MINERAL C	WNERSH	IP AT WELL'S	OIL & GAS	1			
LOCATION							
Surface Owner of the land at this W	ell's Oil and	Gas Location:	X Fee	State	Federal	Indian	
Mineral Owner beneath this Well's			X Fee	State	Federal	Indian	
Surface Owner Protection Financial	Assurance (if applicable):		Su ——	rety ID Number	(if applicable):	
MINERALS DEVELOPED WELL) BY						
The ownership of all the minera X Fee	ownship, Ran ibe a lease th t, describe th	ge format describ lat will be develop e lease that will b lease if necessary.	e one entire med by the Wel	ineral lease the Well.		Federal	Indian
SAFETY SETBACK							
INFORMATION							
Distance from Well to nearest:				INSTRUCT			
Building:	2101	Feet			II distances per R 80 for distance gr		<u> </u>
Building Unit:	2101	Feet		- Building	- nearest building	g of any type. If ne	earest
Public Road:	398	Feet		Building is both.	a Building Unit, e	enter same distan	ice for
Above Ground Utility:	367	Feet			Unit – as defined	in 100 Series Rule	es.
Railroad:	5280	Feet					

Prop	erty Line:	389 Feet		
OBJECTIVE FORM	ATIONS			
Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
NIOBRARA	NBRR	407-2769	1280	SEC.7&8: ALL
Federal or State Unit	Name (if appl):	<u> </u>	U	nit Number:
SUBSURFACE MIN SETBACKS	ERAL	Enter 5280 for dista	nce greater than 1 mile.	
Is this Well within a unit If YES: Enter the minimu Enter the minimu unit permitted or of If NO: Enter the minimum of Enter the minimum of the same lease and	m distance from the m distance from the completed in the sadistance from the Codistance from the Codistanc	Completed Zone of this Well Completed Zone of this Well completed Zone of this Well pleted in the same formation Rule 401.c Exception Locativers.	Vell to the Completed Zone of a Feet I to the Lease Line of the descri	bed lease: Feet offset Well producing from
Enter distance if less the Will a closed-loop drilling Is H ₂ S gas reasonably or equal to 100 ppm?	osed wellbore to not an or equal to 1,50 ag system be used? No If yes, attracture treatment accountered during do ppm CI) drilling floids be used? Annular Prevenand application pla	earest existing or proposed 10 feet:	No well belonging to and erations at concentrations greatess a plan was already submitted	operator, including plugged wells: other operator within 1,500 feet

CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	<u>Grade</u>	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
CONDUCTOR	24	16	N/A	42	0	80	100	80	0
SURF	13+1/2	9+5/8	K55	36	0	1500	415	1500	0
1ST	8+1/2	5+1/2	HCP110	20	0	18737	2420	18737	1000

Conductor Casing is NOT planned

POTENTIAL FLOW AND CONFINING FORMATIONS

Zone Type	Formation /Hazard	<u>Top</u> M.D.	<u>Top</u> T.V.D.	Bottom M.D.	Bottom T.V.D.	TDS (mg/L)	Data Source	Comment
Groundwater	LARAMIE-FOX HILLS	0	0	139	139	1001-10000	Other	Data Source: CSU - Domestic Water Analysis Report - Larry Moore Well - 176559 - 1065 mg/L
Groundwater	UPPER PIERRE	300	300	1314	1314	1001-10000	Other	Water Quality and the Presence and Origin of Methane in the Upper Pierre Aquifer in Northeastern Weld County, Morgan County and Logan County, Colorado COGCC Project Number 2141 October 2017
Confining Layer	PIERRE SHALE	1314	1314	4762	4221			
Hydrocarbon	SUSSEX	4762	4221	5313	4570			
Hydrocarbon	SHANNON	5313	4570	5349	4599			
Confining Layer	PIERRE SHALE	5349	4599	8830	6836			
Hydrocarbon	NIOBRARA	8830	6836	9308	7107			
Confining Layer	FORT HAYS	9308	7107	9400	7130			
Hydrocarbon	CODELL	9400	7130	18737	7130			Btm MD=TD, Btm TVD=TVD @ BHL

OPERATOR COMMENTS AND SUBMITTAL

_					
ᡣ	m	m	Δ	nt	c

Revised distance to nearest non-operated well from 515' to 1055', per operator. Distance to nearest wellbore belonging to another operator measured to the RIO GRANDE 8-67-33-4C (ENERPLUS / 05-123-44902 / XX). There are no other operator wells with treated interval less 175' from the treated interval of the proposed well. Distance measured in 2D map view.

This appli	cation is in a Comprehensive Area Plan	No	CAP #:		
Oil and G	as Development Plan Name			OGDP ID	#:
Location I	D:478497				
I hereby	certify all statements made in this form are	, to the best of n	ny knowledge,	true, correct, a	nd complete.
Signed:			Print Name:	JENNIFER LI	ND
Title:	VP REG & ENV	Date:	1/27/2021	Email:	JENNIFER.LIND@NICKELRO

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 p SB 19-181 and is hereby a		ation for Permit-to-Drill complies with	COGCC	Rules, applicable o	orders, and
COGCC Approved:	Muranel	Director of COGCC	Date:	2/25/2021	
API NUMBER		Expiratio	n Date:	02/24/2024	_
05 123 51528 00	0				

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	<u>Description</u>
Drilling/Completion Operations	Per COGCC Order 1-232, Bradenhead tests shall be performed according to the following schedule and Form 17 submitted within 10 days of each test: 1) Within 60 days of rig release, prior to stimulation. If any pressure greater than 200 psi, must contact COGCC engineer prior to stimulation. 2) If a delayed completion, 6 months after rig release and prior to stimulation. If any pressure greater than 200 psi, must contact COGCC engineer prior to stimulation. 3) A post-production test within 60 days after first sales, as reported on the Form 10, Certificate of Clearance.
Drilling/Completion Operations	 Submit Form 42 electronically to COGCC 2 business days prior to MIRU (Spud Notice), for the first well/activity on the pad and provide 2 business days spud notice for all subsequent wells drilled on the pad. Comply with Rule 317.j and provide cement coverage from the end of production casing to a minimum of 500' above Niobrara. Verify coverage with cement bond log. Oil-based drilling fluid is to be used only after all aquifers are covered.

Best Management Practices

No	BMP/COA Type	<u>Description</u>
1	Drilling/Completion Operations	Anti-collision: Operator will perform an anti-collision evaluation of all active (producing, shut in, or temporarily abandoned) offset wellbores that have the potential of being within 150 feet of a proposed well prior to drilling operations for the proposed well. Notice shall be given to all offset operators prior to drilling.
2	Drilling/Completion Operations	Alternative Logging Program: One of the first wells drilled on the pad will be logged with Open Hole Resistivity Log and Gamma Ray Log from the kick-off point to into the surface casing. All wells on the pad 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 openhole logs shall clearly state "Alternative Logging Program - No open-hole logs were run" and shall clearly identify (by API#, well name & number) the well in which openhole logs were run.
3	Drilling/Completion Operations	Operator acknowledges and will comply with COGCC policy for Bradenhead Monitoring during Hydraulic Fracturing treatments in the Greater Wattenberg Area dated May 29, 2012.

Total: 3 comment(s)

Applicable Policies and Notices to Operators

Notice Concerning Operating Requirements for Wildlife Protection. http://cogcc.state.co.us/documents/reg/Policies/Wildlife Notice.pdf

Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area. http://cogcc.state.co.us/documents/reg/Policies/PolicyGwaBradenheadMonitoringFinal.pdf

Attachment List

Att Doc Num	<u>Name</u>			
402576482	APD APPROVED			
402584798	OffsetWellEvaluations Data			
402584801	VIATED DRILLING PLAN			
402584802	WELL LOCATION PLAT			
402584803	DIRECTIONAL DATA			
402584805	LEASE MAP			
402610881	OFFSET WELL EVALUATION			
402610892	FORM 2 SUBMITTED			
402610900	PUBLIC COMMENT-0			

Total Attach: 9 Files

General Comments

User Group	Comment	Comment Date
Permit	Final Review Completed.	02/25/2021
OGLA	This Location and its associated materials was fully reviewed in the review of this APD in accordance with current Rules. See Sundry doc #402591420 in Location #478497 file for additional information. This APD complies with all COGCC Rules and is adequately protective of public health, safety, welfare, the environment, and wildlife resources. OGLA task passed.	02/24/2021
Engineer	Revised distance to nearest non-operated well from 515' to 1055', per operator.	02/24/2021
Permit	Permitting Review Complete.	02/02/2021
Engineer	Offset Wells Evaluated.	02/02/2021

Total: 5 comment(s)

FORM 2 Rev

State of Colorado





Document Number:

402576494

12/20	, ,	894-2100 Fax: (303)		TM D	NR	Date Rece	ived:` '/2021
X Drill	Deepen	Re-enter	Recomplete and	Operate	_	Amend]
TYPE OF WEL	L OIL X GAS	COALBED	OTHER:			Refile]
ZONE TYPE	SINGLE ZONE X	MULTIPLE ZONES	COMMINGLE ZONES	-	Si	detrack	
Well Name: BL	EHM WEST		Well Number: 4X-HN	NB-07-07-	67		
Address: 1600 City: D Contact Name:	JENNIFER LIND	1850 ate: <u>CO</u> Phone	Zip: 80202 e: (303)406-1117 Fax: (rator Numb	er:1(0669
	JENNIFER.LIND@NIC		G.COM				
	ION FINANCIAL ASS bandonment Bond Surety						
WELL LOCA	TION INFORMATIO	N					
Surface Location OtrQtr: NENE Footage at Latitude: GPS Data: Ground Elevation	Sec: 9 T Surface: 440 40.594749 GPS Quality Value: 1.	FNL/FSL Feet FNL Longit	67W Meridian: 6 FEL/FWL 656 Feet FEL ude: -104.890993 uality Value: PDOP	Da	te of Measu	urement: 1	1/14/2020
Field Name: V		Field Nu	ımber: 90750				
Well Plan: is	Directional X F	Horizontal (highly devi	ated) Vertial				
Subsurface Loc	If Well plan is Directiona cations		Deviated Drilling Plan and Directi	onal Data.			
Se	c: 8 Twp: 7N	Rng: 67W	Footage at TPZ:	2336	FNL	460	FEL
	easured Depth of TPZ: ctive Zone (BPZ)	9511	True Vertical Depth of TPZ:	6915	FNL/FSL —		FEL/FWL
Se	,	I Rng: 67W	Footage at TPZ:	2335	FNL	460	FWL
	easured Depth of TPZ:		True Vertical Depth of TPZ:		FNL/FSL		FEL/FWL
	•		•		_		
Bottom Hole Lo	ocation (BHL)						
Bottom Hole Lo		LRng:67W	Footage at BHL:	2335	FNL	460	FWL

County: WELD		Municipality	/: N/A				
Is the Surface Location of this Well	in an area de	esignated as one	of State intere	st and subje	ect to the require	ements of §	
24-65.1-108 C.R.S.? Yes							
Per § 34-60-106(1)(f)(I)(A) C.R.S., 1 proposed Oil and Gas Location.	he following	questions pertain	to the Relevar	nt Local Gov	ernment approv	al of the siting o	of the
SB 19-181 provides that when "app permit and the disposition of that pe (A) C.R.S.							
Does the Relevant Local Governme	ent regulate th	ne siting of Oil and	d Gas Location	s, with resp	ect to this Locat	tion? X Ye	es No
If yes, in checking this box, I I the siting of the proposed oil a	nereby certify and gas locat	that an application.	on has been fil	ed with the I	ocal governmer	nt with jurisdictio	n to approve
The disposition of the application file	ed with the R	elevant Local Gov	vernment is:	Approved	Date of Fin	al Disposition:	09/03/2020
Comments: 1041WOGLA20-0076	3						
SURFACE AND MINERAL C	WNERSH	IP AT WELL'S	OIL & GAS				
LOCATION			-				
Surface Owner of the land at this W			X Fee	State	Federal	Indian	
Mineral Owner beneath this Well's			X Fee	State	Federal	Indian	
Surface Owner Protection Financial	Assurance (if applicable): —		Su 	rety ID Number	(if applicable):	
MINERALS DEVELOPED WELL) BY						
The ownership of all the minera X Fee State Federal Indian N/A LEASE INFORMATION Using standard QtrQtr, Section, To this Well is within a unit, described to a unit (Attach a Lease Map or Lease Described Lease Described Lease: SEE ATTACHED LEASE MAP Total Acres in Described Lease: Federal or State Lease #	ownship, Ran ibe a lease th t, describe th	ge format describ lat will be develop e lease that will b lease if necessary.	e one entire med by the Wel	ineral lease the Well.		Federal	☐ Indian
SAFETY SETBACK							
INFORMATION							
Distance from Well to nearest:				INSTRUCT		1 000: / :	
Building:	2093	Feet			II distances per R 80 for distance gr		<u>.</u>
Building Unit:	2093	Feet		- Building	- nearest building	g of any type. If ne	earest
Public Road:	428	Feet		Building is both.	a Building Unit, 6	enter same distan	nce for
Above Ground Utility:	397	Feet			Unit – as defined	in 100 Series Rule	es.
Railroad:	5280	Feet					

Prop	erty Line:	419 Feet		
OBJECTIVE FORM	ATIONS			
Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
NIOBRARA	NBRR	407-2769	1280	SEC.7&8: ALL
Federal or State Unit	Name (if appl):		U	nit Number:
SUBSURFACE MINI SETBACKS	ERAL	Enter 5280 for dista	nce greater than 1 mile.	
Is this Well within a unit	? Yes			
	m distance from th	e Completed Zone of this V	Vell to the Unit Boundary:	460 Foot
		•	Vell to the Completed Zone of a	n offset Well within the same
	completed in the sa		•	in onset well within the same
·	completed in the sa	ame formation: 619	Feet	
If NO:	diatamaa fuama tha C	Samulatad Zana of this Wall		had lasse.
		•	I to the Lease Line of the descri	
		•	I to the Completed Zone of an o	itset vveii producing from
the same lease and	permitted or comp	oleted in the same formation	n: Feet	
Exception Location				
If this Well requires	the approval of a	Rule 401.c Exception Locat	ion, enter the Rule or spacing o	rder number and attach the
Exception Location	Request and Waiv	vers.		
SPACING & FORMA	ATIONS COMM	ENTS		
DRILLING PROGRA	M			
Proposed Total Measur	ed Depth: 1873	6 Feet TV	D at Proposed Total Measured	Depth 6915 Feet
Distance from the propo	osed wellbore to ne	earest existing or proposed	wellbore belonging to another of	pperator, including plugged wells:
Enter distance if less that	an or equal to 1,50	00 feet: 985 Feet	No well belonging to and	other operator within 1,500 feet
Will a closed-loop drillin	g system be used	? Yes		
Is H2S gas reasonably	expected to be end	countered during drilling ope	erations at concentrations greate	er than
or equal to 100 ppm?	No If yes, atta	ach an H2S Drilling Plan unle	ess a plan was already submitted	with the Form 2A per Rule 304.c.(10).
Will there be hydraulic f	racture treatment a	at a depth less than 2,000 fe	eet in this well? No	
Will salt sections be end	countered during d	rilling? No		
Will salt based (>15,000	ppm CI) drilling fl	uids be used? No	_	
Will oil based drilling flu	ids be used?	Yes		
BOP Equipment Type:		ntor 🔽 Double Ram	Rotating Head	None
Beneficial reuse or la	and application pla	n submitted? No		
Reuse Facility ID:_		or Document Number:		
		-		

CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	<u>Grade</u>	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	<u>Cmt</u> Top
CONDUCTOR	24	16	N/A	42	0	80	100	80	0
SURF	13+1/2	9+5/8	K55	36	0	1500	415	1500	0
1ST	8+1/2	5+1/2	HCP110	20	0	18736	2420	18736	1000

Conductor Casing is NOT planned

POTENTIAL FLOW AND CONFINING FORMATIONS

Zone Type	Formation /Hazard	<u>Top</u> <u>M.D.</u>	<u>Top</u> T.V.D.	Bottom M.D.	Bottom T.V.D.		Data Source	Comment
Groundwater	LARAMIE-FOX HILLS	0	0	139	139	1001-10000	Other	CSU - Domestic Water Analysis Report - Larry Moore Well - 176559
Groundwater	UPPER PIERRE	300	300	1314	1314	1001-10000	Other	Water Quality and the Presence and Origin of Methane in the Upper Pierre Aquifer in Northeastern Weld County, Morgan County and Logan County, Colorado COGCC Project Number 2141 October 2017
Confining Layer	PIERRE SHALE	1314	1314	4767	4197			
Hydrocarbon	SUSSEX	4767	4197	5355	4546			
Hydrocarbon	SHANNON	5355	4546	5400	4575			
Confining Layer	PIERRE SHALE	5400	4575	9146	6812			
Hydrocarbon	NIOBRARA	9146	6812	18736	6915			Btm MD=TD, Btm TVD=TVD @ BHL

OPERATOR COMMENTS AND SUBMITTAL

Comments

Revised distance to nearest non-operated well from 308' to 985', per operator. Distance to nearest wellbore belonging to another operator measured to the BLACK WILLOW 1 (AMERICAN PETROFINA / 05-123-09381 / AB). There are no other operator wells with treated interval less 175' from the treated interval of the proposed well. Distance measured in 2D map view.

	•				
This applic	cation is in a Comprehensive Area Plan	No	CAP #:		
Oil and Ga	as Development Plan Name		- 	OGDP ID:	- #:
Location II	D:478497				
I hereby o	ertify all statements made in this form are, t	to the best of r	my knowledge, t	true, correct, ar	nd complete.
Signed:			Print Name:	JENNIFER LI	ND
Title:	VP REG & ENV	Date:	1/27/2021	Email:	JENNIFER.LIND@NICKELRO

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 her SB 19-181 and is hereby approved.	ein, this Application for Permit-to-Drill complies with COGC	C Rules, applicable orders, and
COGCC Approved:	Director of COGCC Date	2/25/2021
API NUMBER	Expiration Date	: 02/24/2024
05 123 51533 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.

COA Type	<u>Description</u>				
Drilling/Completion Operations	Per COGCC Order 1-232, Bradenhead tests shall be performed according to the following schedule and Form 17 submitted within 10 days of each test: 1) Within 60 days of rig release, prior to stimulation. If any pressure greater than 200 psi, must contact COGCC engineer prior to stimulation. 2) If a delayed completion, 6 months after rig release and prior to stimulation. If any pressure greater than 200 psi, must contact COGCC engineer prior to stimulation. 3) A post-production test within 60 days after first sales, as reported on the Form 10, Certificate of Clearance.				
Drilling/Completion Operations	 Submit Form 42 electronically to COGCC 2 business days prior to MIRU (Spud Notice), for the first well/activity on the pad and provide 2 business days spud notice for all subsequent wells drilled on the pad. Comply with Rule 317.j and provide cement coverage from the end of production casing to a minimum of 500' above Niobrara. Verify coverage with cement bond log. Oil-based drilling fluid is to be used only after all aquifers are covered. 				
Best Management Practices					

Best Management Practices

No BMP/COA Type	<u>Description</u>
1 Drilling/Completion Operations	Anti-collision: Operator will perform an anti-collision evaluation of all active (producing, shut in, or temporarily abandoned) offset wellbores that have the potential of being within 150 feet of a proposed well prior to drilling operations for the proposed well. Notice shall be given to all offset operators prior to drilling.
2 Drilling/Completion Operations	Alternative Logging Program: One of the first wells drilled on the pad will be logged with Open Hole Resistivity Log and Gamma Ray Log from the kick-off point to into the surface casing. All wells on the pad 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 openhole logs shall clearly state "Alternative Logging Program - No open-hole logs were run" and shall clearly identify (by API#, well name & number) the well in which openhole logs were run.
3 Drilling/Completion Operations	Operator acknowledges and will comply with COGCC policy for Bradenhead Monitoring during Hydraulic Fracturing treatments in the Greater Wattenberg Area dated May 29, 2012.

Total: 3 comment(s)

Applicable Policies and Notices to Operators

Notice Concerning Operating Requirements for Wildlife Protection. http://cogcc.state.co.us/documents/reg/Policies/Wildlife Notice.pdf

Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area. http://cogcc.state.co.us/documents/reg/Policies/PolicyGwaBradenheadMonitoringFinal.pdf

Attachment List

Att Doc Num	<u>Name</u>
402576494	APD APPROVED
402584832	OffsetWellEvaluations Data
402584835	DEVIATED DRILLING PLAN
402584836	WELL LOCATION PLAT
402584837	DIRECTIONAL DATA
402584838	LEASE MAP
402610887	OFFSET WELL EVALUATION
402610893	FORM 2 SUBMITTED
402610899	PUBLIC COMMENT-0

Total Attach: 9 Files

General Comments

User Group	Comment	Comment Date
Permit	Final Review Completed.	02/25/2021
OGLA	This Location and its associated materials was fully reviewed in the review of this APD in accordance with current Rules. See Sundry doc #402591420 in Location #478497 file for additional information. This APD complies with all COGCC Rules and is adequately protective of public health, safety, welfare, the environment, and wildlife resources. OGLA task passed.	02/24/2021
Engineer	Revised distance to nearest non-operated well from 308' to 985', per operator.	02/24/2021
Permit	Permitting Review Complete.	02/02/2021
Engineer	Offset Wells Evaluated.	02/02/2021

Total: 5 comment(s)

FORM 2

State of Colorado





Document Number:

402576499

Phone: (303) 894-2100 Fax: (303) 894-2109							
APPLICATION FOR PERMIT TO:	Date Received:` 01/27/2021						
X Drill Deepen Re-enter Recomplete and Operate	Amend						
TYPE OF WELL OIL X GAS COALBED OTHER:	Refile						
ZONE TYPE SINGLE ZONE X MULTIPLE ZONES COMMINGLE ZONES	Sidetrack						
Well Name: BLEHM WEST Well Number: 5X-HNC-07-07-67							
Name of Operator: NICKEL ROAD OPERATING LLC COGCC Operator Number: 10669							
Address: 1600 STOUT STREET SUITE 1850							
City: DENVER State: CO Zip: 80202							
Contact Name: JENNIFER LIND Phone: (303)406-1117 Fax: ()							
Email: JENNIFER.LIND@NICKELROADOPERATING.COM							
RECLAMATION FINANCIAL ASSURANCE							
Plugging and Abandonment Bond Surety ID:20200034							
WELL LOCATION INFORMATION							
Surface Location							
QtrQtr: NENE Sec: 9 Twp: 7N Rng: 67W Meridian: 6							
FNL/FSL FEL/FWL Footage at Surface: 470 Feet FNL 658 Feet FEL							
<u> </u>							
Latitude: 40.594667 Longitude: -104.890999 GPS Data: GPS Quality Value: 1.8 Type of GPS Quality Value: PDOP Date of Measurement: 11/14/2020							
1 ype of of 5 quality value	<u> </u>						
Ground Elevation:5088 Field Number: 90750							
Well Plan: is Directional X Horizontal (highly deviated) Vertial							
If Well plan is Directional or Horizontal attach Deviated Drilling Plan and Directional Data.							
Subsurface Locations							
Top of Productive Zone (TPZ)							
Sec: 8 Twp: 7N Rng: 67W Footage at TPZ: 2337 F	SL 460 FEL						
Measured Depth of TPZ: 9764 True Vertical Depth of TPZ: 7010	/FSL FEL/FWL						
Base of Productive Zone (BPZ)							
	SL 460 FWL						
` ` `	/FSL FEL/FWL						
Bottom Hole Location (BHL)							
Sec: 7 Twp: 7N Rng: 67W Footage at BHL: 2339 F	SL 460 FWL						
FNL/I	FSL FEL/FWL						

LOCAL GOVERNMENT PERMITTING INFORMATION

County: WELD	Municipality	y: N/A				
Is the Surface Location of this Well	in an area designated as one	of State interest	and subje	ct to the require	ments of §	
24-65.1-108 C.R.S.? Yes						
Per § 34-60-106(1)(f)(l)(A) C.R.S., proposed Oil and Gas Location.	the following questions pertain	to the Relevant	Local Gov	ernment approv	al of the siting	of the
SB 19-181 provides that when "app permit and the disposition of that pe (A) C.R.S.						
Does the Relevant Local Governme	ent regulate the siting of Oil and	d Gas Locations,	with respe	ect to this Locat	ion? X Ye	es No
X If yes, in checking this box, I the siting of the proposed oil	nereby certify that an application	on has been filed	with the lo	ocal governmen	t with jurisdiction	on to approve
The disposition of the application fil	ed with the Relevant Local Go	overnment is: A	pproved	Date of Fin	al Disposition:	09/03/2020
Comments: 1041WOGLA20-0076	3					
SURFACE AND MINERAL C	OWNERSHIP AT WELL'S	OIL & GAS				
LOCATION			_			
Surface Owner of the land at this W	'ell's Oil and Gas Location:	X Fee	State	Federal	Indian	
Mineral Owner beneath this Well's		X Fee	State	Federal	Indian	
Surface Owner Protection Financial	Assurance (if applicable):		Sur —	ety ID Number	(if applicable):	
MINERALS DEVELOPED WELL) BY					
State 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.) SEE ATTACHED LEASE MAP						
Total Acres in Described Lease:	142 Described M	lineral Lease is:	X Fee	State	Federal	Indian
Federal or State Lease #						
SAFETY SETBACK INFORMATION						
Distance from Well to nearest:			INSTRUCTI	ONS:		
Building:	2086 Feet			l distances per R		
Building Unit:	 2086 Feet			30 for distance gr nearest building		I
Public Road:	458 Feet		Building is	a Building Unit, 6		I
Above Ground Utility:	427 Feet		both. - Building l	Jnit – as defined	in 100 Series Rul	es.
Railroad:	5280 Feet					
Naiii Odu.						

Property Line:449 Feet							
OBJECTIVE FORM	ATIONS						
Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)			
NIOBRARA	NBRR	407-2769	1280	SEC.7&8: ALL			
Federal or State Unit	Name (if appl):		U	nit Number:			
SUBSURFACE MIN SETBACKS	ERAL	Enter 5280 for dista	nce greater than 1 mile.				
Is this Well within a uni	t? Yes						
If YES:							
		ne Completed Zone of this V		460 Feet			
		·	Vell to the Completed Zone of a	n offset Well within the same			
unit permitted or	completed in the s	ame formation: 619	Feet				
If NO:							
		•	I to the Lease Line of the descri				
		•	I to the Completed Zone of an o	offset Well producing from			
the same lease and	permitted or com	pleted in the same formation	n: Feet				
Exception Location							
If this Well requires	the approval of a	Rule 401.c Exception Locat	tion, enter the Rule or spacing o	order number and attach the			
Exception Location	Request and Wair	vers.					
CDACING & FORM	TIONS COMM	IENTO					
SPACING & FORMA	ATIONS COMM	IEN 15					
DRILLING PROGRA	M						
Proposed Total Measur	red Depth: 1898	S2 Feet TV	D at Proposed Total Measured	Depth 7010 Feet			
Distance from the property	osed wellbore to no	earest existing or proposed	wellbore belonging to another of	operator, including plugged wells:			
Enter distance if less th	an or equal to 1,50	00 feet: 340 Feet	No well belonging to and	other operator within 1,500 feet			
Will a closed-loop drilling	ng system be used	? <u>Yes</u>					
Is H ₂ S gas reasonably			erations at concentrations great				
or equal to 100 ppm?		_		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:		entor 🔀 Double Ram	Rotating Head	None			
Beneficial reuse or la	and application pla	n submitted? No					
Reuse Facility ID:		or Document Number:					

CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	<u>Grade</u>	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
CONDUCTOR	24	16	N/A	42	0	80	100	80	0
SURF	13+1/2	9+5/8	K55	36	0	1500	415	1500	0
1ST	8+1/2	5+1/2	HCP110	20	0	18982	2450	18982	1000

Conductor Casing is NOT planned

POTENTIAL FLOW AND CONFINING FORMATIONS

Zone Type	Formation /Hazard	<u>Top</u> <u>M.D.</u>	<u>Top</u> T.V.D.	Bottom M.D.	Bottom T.V.D.	<u>TDS</u> (mg/L)	Data Source	Comment
Groundwater	LARAMIE-FOX HILLS	0	0	139	139	1001-10000	Other	CSU - Domestic Water Analysis Report - Larry Moore Well - 176559
Groundwater	UPPER PIERRE	300	300	1314	1314	1001-10000	Other	Water Quality and the Presence and Origin of Methane in the Upper Pierre Aquifer in Northeastern Weld County, Morgan County and Logan County, Colorado COGCC Project Number 2141 October 2017
Confining Layer	PIERRE SHALE	1314	1314	4787	4204			
Hydrocarbon	SUSSEX	4787	4204	5381	4553			
Hydrocarbon	SHANNON	5381	4553	5436	4582			
Confining Layer	PIERRE SHALE	5436	4582	9231	6819			
Hydrocarbon	NIOBRARA	9231	6819	18982	7010			Btm MD=TD, Btm TVD=TVD @ BHL

OPERATOR COMMENTS AND SUBMITTAL

Comments

Revised the distance to the nearest non-operated well from 395' to 340', per operator. Distance to nearest wellbore belonging to another operator measured to the BLACK WILLOW 1 (AMERICAN PETROFINA / 05-123-09381 / AB). There are no other operator wells with treated interval less 175' from the treated interval of the proposed well. Distance measured in 2D map view.

cation is in a Comprehensive Area Plan	No	CAP #:					
Oil and Gas Development Plan Name OGDP ID#:							
Location ID: 478497							
I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.							
		Print Name:	JENNIFER LIN	ND			
VP REG & ENV	Date: _	1/27/2021	Email:	JENNIFER.LIND@NICKELRO			
	D: 478497 certify all statements made in this form are,	as Development Plan Name D:478497 certify all statements made in this form are, to the best of n	as Development Plan Name D:478497 certify all statements made in this form are, to the best of my knowledge, t Print Name:	D: 478497 certify all statements made in this form are, to the best of my knowledge, true, correct, are Print Name: JENNIFER LIN			

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:	2/25/2021				
API NUMBER	Expiration Date:	02/24/2024				
05 123 51529 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.

COA Type	<u>Description</u>
Drilling/Completion Operations	Per COGCC Order 1-232, Bradenhead tests shall be performed according to the following schedule and Form 17 submitted within 10 days of each test: 1) Within 60 days of rig release, prior to stimulation. If any pressure greater than 200 psi, must contact COGCC engineer prior to stimulation. 2) If a delayed completion, 6 months after rig release and prior to stimulation. If any pressure greater than 200 psi, must contact COGCC engineer prior to stimulation. 3) A post-production test within 60 days after first sales, as reported on the Form 10, Certificate of Clearance.
Drilling/Completion Operations	 Submit Form 42 electronically to COGCC 2 business days prior to MIRU (Spud Notice), for the first well/activity on the pad and provide 2 business days spud notice for all subsequent wells drilled on the pad. Comply with Rule 317.j and provide cement coverage from the end of production casing to a minimum of 500' above Niobrara. Verify coverage with cement bond log. Oil-based drilling fluid is to be used only after all aquifers are covered.

Best Management Practices

No	BMP/COA Type	<u>Description</u>
1	Drilling/Completion Operations	Anti-collision: Operator will perform an anti-collision evaluation of all active (producing, shut in, or temporarily abandoned) offset wellbores that have the potential of being within 150 feet of a proposed well prior to drilling operations for the proposed well. Notice shall be given to all offset operators prior to drilling.
2	Drilling/Completion Operations	Alternative Logging Program: One of the first wells drilled on the pad will be logged with Open Hole Resistivity Log and Gamma Ray Log from the kick-off point to into the surface casing. All wells on the pad 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 openhole logs shall clearly state "Alternative Logging Program - No open-hole logs were run" and shall clearly identify (by API#, well name & number) the well in which openhole logs were run.
3	Drilling/Completion Operations	Operator acknowledges and will comply with COGCC policy for Bradenhead Monitoring during Hydraulic Fracturing treatments in the Greater Wattenberg Area dated May 29, 2012.

Total: 3 comment(s)

Applicable Policies and Notices to Operators

Notice Concerning Operating Requirements for Wildlife Protection. http://cogcc.state.co.us/documents/reg/Policies/Wildlife Notice.pdf

Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area. http://cogcc.state.co.us/documents/reg/Policies/PolicyGwaBradenheadMonitoringFinal.pdf

Attachment List

Att Doc Num	<u>Name</u>
402576499	APD APPROVED
402584903	OffsetWellEvaluations Data
402584904	DEVIATED DRILLING PLAN
402584905	WELL LOCATION PLAT
402584906	LEASE MAP
402584907	DIRECTIONAL DATA
402610882	OFFSET WELL EVALUATION
402610894	FORM 2 SUBMITTED
402610902	PUBLIC COMMENT-0

Total Attach: 9 Files

General Comments

User Group	Comment	Comment Date
Permit	Final Review Completed.	02/25/2021
OGLA	This Location and its associated materials was fully reviewed in the review of this APD in accordance with current Rules. See Sundry doc #402591420 in Location #478497 file for additional information. This APD complies with all COGCC Rules and is adequately protective of public health, safety, welfare, the environment, and wildlife resources. OGLA task passed.	02/24/2021
Engineer	Revised the distance to the nearest non-operated well from 395' to 340', per operator.	02/24/2021
Permit	Permitting Review Complete.	02/02/2021
Engineer	Offset Wells Evaluated.	02/02/2021

Total: 5 comment(s)

FORM 2 Rev

State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203

Phone: (202) 904 2100 Ferr (202) 204 2170





Document Number:

402576514

	12/20	`	3) 894-2100 Fax: (303) 3		DNI		ite Recei 01/27/	
Value	X Drill	Deepen	Re-enter	Recomplete and	Operate	Aı	mend 🗌	
Well Name: BLEHM WEST	TYPE OF WELL	OIL X GAS	COALBED C	OTHER:		F	Refile	
Name of Operator: NICKEL ROAD OPERATING LLC	ZONE TYPE	SINGLE ZONE X	MULTIPLE ZONES	COMMINGLE ZONES	-	Side	track	
Address: 1600 STOUT STREET SUITE 1850 City: DENVER State: CO Zip: 80202	Well Name: BLE	HM WEST		Well Number: 7X-HN	B-07-07-67			
City: DENVER	Name of Operato	or: NICKEL ROAD OF	PERATING LLC	COG	SCC Operat	or Number:	10	669
Contact Name: JENNIFER LIND	Address: 1600 S	TOUT STREET SUIT	E 1850					
RECLAMATION FINANCIAL ASSURANCE Plugging and Abandonment Bond Surety ID:	City: DE	NVER	State: CO	Zip: 80202				
Plugging and Abandonment Bond Surety ID:	_			_)			
Plugging and Abandonment Bond Surety ID:	RECLAMATIO	ON FINANCIAL A	SSLIBANCE					
WELL LOCATION INFORMATION								
Surface Location QtrQtr: NENE								
QtrQtr: NENE	WELL LOCAT	TION INFORMATI	ON					
Footage at Surface: 500 Feet FNL 660 Feet FEL/FWL Latitude: 40.594585 Longitude: -104.891006 GPS Data: GPS Quality Value: 2.0 Type of GPS Quality Value: PDOP Date of Measurement: 11/14/2020 Ground Elevation: 5088 Field Name: WATTENBERG Field Number: 90750 Well Plan: is Directional X Horizontal (highly deviated) Vertial If Well plan is Directional or Horizontal attach Deviated Drilling Plan and Directional Data. Subsurface Locations Top of Productive Zone (TPZ) Sec: 8 Twp: 7N Rng: 67W Footage at TPZ: 1100 FSL 460 FEL Measured Depth of TPZ: 10252 True Vertical Depth of TPZ: 6915 FNL/FSL FEL/FWL Base of Productive Zone (BPZ) Sec: 7 Twp: 7N Rng: 67W Footage at TPZ: 1102 FSL 460 FWL Measured Depth of TPZ: 19457 True Vertical Depth of TPZ: 6915 FNL/FSL FEL/FWL Bottom Hole Location (BHL) Sec: 7 Twp: 7N Rng: 67W Footage at BHL: 1102 FSL 460 FWL	Surface Location	n						
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	Bottom Hole Loc	cation (BHL)						
FNL/FSL FEL/FWL	Sec	:7 Twp:7	N Rng: 67W	Footage at BHL:	1102	FSL	460	FWL
		-			F	NL/FSL		FEL/FWL

County: WELD	Municipalit	y: N/A				
Is the Surface Location of this Well	l in an area designated as one	of State interest	and subjec	ct to the requirer	ments of §	
24-65.1-108 C.R.S.? Yes						
Per § 34-60-106(1)(f)(I)(A) C.R.S., proposed Oil and Gas Location.	the following questions pertain	to the Relevant	Local Gove	ernment approva	al of the siting o	of the
SB 19-181 provides that when "approximate and the disposition of that potential (A) C.R.S.						
Does the Relevant Local Governme	ent regulate the siting of Oil an	d Gas Locations,	with respe	ect to this Locati	on? X Ye	es No
If yes, in checking this box, I the siting of the proposed oil	hereby certify that an application and gas location.	on has been filed	with the lo	ocal government	t with jurisdictio	n to approve
The disposition of the application fil	ed with the Relevant Local Go	vernment is: A	pproved	Date of Fina	al Disposition:	09/03/2020
Comments: 1041WOGLA20-007	6					
SURFACE AND MINERAL OLOCATION	OWNERSHIP AT WELL'S	OIL & GAS				
Surface Owner of the land at this W	/ell's Oil and Gas Location:	X Fee	State	Federal	Indian	
Mineral Owner beneath this Well's		X Fee	State	Federal	Indian	
Surface Owner Protection Financia		X 100		ety ID Number (_	
MINERALS DEVELOPED WELL	_		_		` - ' -	
The ownership of all the mineral X Fee State Federal Indian N/A LEASE INFORMATION Using standard QtrQtr, Section, To this Well is within a unit, descrel to a un (Attach a Lease Map or Lease Described Lease: SEE ATTACHED LEASE MAP Total Acres in Described Lease: Federal or State Lease #	ownship, Range format describ ibe a lease that will be develop it, describe the lease that will b scription or Lease if necessary	ne one entire min oed by the Well. De produced by th	eral lease a		Federal	Indian
SAFETY SETBACK INFORMATION						
Distance from Well to nearest:			INSTRUCTION		ulo 200 h /4\	
Building: 2080 Feet - Specify all distances per Rule 308.b.(1) Enter 5280 for distance greater than 1 mile.						
Building Unit: 2080 Feet - Building - nearest building of any type. If nearest						earest
Public Road:	488 Feet		Building is a both.	a Building Unit, e	nter same distan	ice for
Above Ground Utility:	457 Feet			Jnit – as defined i	n 100 Series Rul	es.
Railroad:	5280 Feet					

Prop	Property Line: 479 Feet						
OBJECTIVE FORM	ATIONS						
Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)			
NIOBRARA	NBRR	407-2769	1280	SEC.7&8: ALL			
Federal or State Unit	Name (if appl):		U	nit Number:			
SUBSURFACE MINI SETBACKS	ERAL	Enter 5280 for dista	nce greater than 1 mile.				
Enter the minimu	m distance from th	•	Vell to the Unit Boundary: Vell to the Completed Zone of a Feet	460 Feet n offset Well within the same			
If NO:							
	listance from the (Completed Zone of this Well	I to the Lease Line of the descri	hed lease.			
		•	I to the Completed Zone of an o				
		•	•	miset well producing from			
the same lease and	permitted or comp	oleted in the same formation	n: Feet				
Exception Location If this Well requires Exception Location SPACING & FORMA	Request and Waiv	vers	ion, enter the Rule or spacing o	order number and attach the			
DRILLING PROGRA	М						
Proposed Total Measur	ed Depth: 1945	7 Feet TV	D at Proposed Total Measured	Depth 6915 Feet			
Distance from the propo	osed wellbore to ne	earest existing or proposed	wellbore belonging to another of	pperator, including plugged wells:			
Enter distance if less that	an or equal to 1,50	00 feet: 410 Feet	No well belonging to and	other operator within 1,500 feet			
Will a closed-loop drillin	•			·			
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:			Rotating Head	None			
Beneficial reuse or la	and application pla	n submitted? No					
Reuse Facility ID:_		or Document Number:					

CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	<u>Grade</u>	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	<u>Cmt</u> Top
CONDUCTOR	24	16	N/A	42	0	80	100	80	0
SURF	13+1/2	9+5/8	K55	36	0	1500	415	1500	0
1ST	8+1/2	5+1/2	HCP110	20	0	19457	2520	19457	1000

Conductor Casing is NOT planned

POTENTIAL FLOW AND CONFINING FORMATIONS

Zone Type	Formation /Hazard	<u>Top</u> <u>M.D.</u>	<u>Top</u> <u>T.V.D.</u>	Bottom M.D.	Bottom T.V.D.	<u>TDS</u> (mg/L)	Data Source	Comment
Groundwater	LARAMIE-FOX HILLS	0	0	139	139	1001-10000	Other	CSU - Domestic Water Analysis Report - Larry Moore Well - 176559
Groundwater	UPPER PIERRE	300	300	1314	1314	1001-10000	Other	Water Quality and the Presence and Origin of Methane in the Upper Pierre Aquifer in Northeastern Weld County, Morgan County and Logan County, Colorado COGCC Project Number 2141 October 2017
Confining Layer	PIERRE SHALE	1314	1314	4821	4197			
Hydrocarbon	SUSSEX	4821	4197	5490	4546			
Hydrocarbon	SHANNON	5490	4546	5543	4575			
Confining Layer	PIERRE SHALE	5543	4575	9836	6812			
Hydrocarbon	NIOBRARA	9836	6812	19457	6915			Btm MD=TD, Btm TVD=TVD @ BHL

OPERATOR COMMENTS AND SUBMITTAL

Comments

Revised the distance to the nearest non-operated well from 485' to 410', per operator. Distance to nearest wellbore belonging to another operator measured to the WALT 08W-20-01C (EXTRACTION / 05-123-45244 / XX). There are no other operator wells with treated interval less 175' from the treated interval of the proposed well. Distance measured in 2D map view.

	•				
This applic	cation is in a Comprehensive Area Plan	No	CAP #:		
Oil and Ga	as Development Plan Name		- 	OGDP ID	- #:
Location II	D:478497				
I hereby o	ertify all statements made in this form are, t	to the best of r	my knowledge, t	true, correct, ar	nd complete.
Signed:			Print Name:	JENNIFER LI	ND
Title:	VP REG & ENV	Date:	1/27/2021	Email:	JENNIFER.LIND@NICKELRO

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	e: <u>2/25/2021</u>					
API NUMBER	Expiration Date	e: <u>02/24/2024</u>					
05 123 51532 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.

COA Type	<u>Description</u>				
Drilling/Completion Operations	Per COGCC Order 1-232, Bradenhead tests shall be performed according to the following schedule and Form 17 submitted within 10 days of each test: 1) Within 60 days of rig release, prior to stimulation. If any pressure greater than 200 psi, must contact COGCC engineer prior to stimulation. 2) If a delayed completion, 6 months after rig release and prior to stimulation. If any pressure greater than 200 psi, must contact COGCC engineer prior to stimulation. 3) A post-production test within 60 days after first sales, as reported on the Form 10, Certificate of Clearance.				
Drilling/Completion Operations	 Submit Form 42 electronically to COGCC 2 business days prior to MIRU (Spud Notice), for the first well/activity on the pad and provide 2 business days spud notice for all subsequent wells drilled on the pad. Comply with Rule 408.j and provide cement coverage from the end of production casing to a minimum of 500' above Niobrara. Verify coverage with cement bond log. Oil-based drilling fluid is to be used only after all aquifers are covered. 				
Best Management Practices					

No	BMP/COA Type	<u>Description</u>
1	Drilling/Completion Operations	Anti-collision: Operator will perform an anti-collision evaluation of all active (producing, shut in, or temporarily abandoned) offset wellbores that have the potential of being within 150 feet of a proposed well prior to drilling operations for the proposed well. Notice shall be given to all offset operators prior to drilling.
2	Drilling/Completion Operations	Alternative Logging Program: One of the first wells drilled on the pad will be logged with Open Hole Resistivity Log and Gamma Ray Log from the kick-off point to into the surface casing. All wells on the pad 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 openhole logs shall clearly state "Alternative Logging Program - No open-hole logs were run" and shall clearly identify (by API#, well name & number) the well in which openhole logs were run.
3	Drilling/Completion Operations	Operator acknowledges and will comply with COGCC policy for Bradenhead Monitoring during Hydraulic Fracturing treatments in the Greater Wattenberg Area dated May 29, 2012.

Total: 3 comment(s)

Applicable Policies and Notices to Operators

Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area. http://cogcc.state.co.us/documents/reg/Policies/PolicyGwaBradenheadMonitoringFinal.pdf

Attachment List

Att Doc Num	<u>Name</u>
402576514	APD APPROVED
402584942	OffsetWellEvaluations Data
402584946	LEASE MAP
402584947	DEVIATED DRILLING PLAN
402584948	WELL LOCATION PLAT
402584949	DIRECTIONAL DATA
402610886	OFFSET WELL EVALUATION
402610896	FORM 2 SUBMITTED
402610901	PUBLIC COMMENT-0

Total Attach: 9 Files

General Comments

User Group	Comment	Comment Date
Permit	Final Review Completed.	02/25/2021
OGLA	This Location and its associated materials was fully reviewed in the review of this APD in accordance with current Rules. See Sundry doc #402591420 in Location #478497 file for additional information. This APD complies with all COGCC Rules and is adequately protective of public health, safety, welfare, the environment, and wildlife resources. OGLA task passed.	02/24/2021
Engineer	Revised the distance to the nearest non-operated well from 485' to 410', per operator.	02/24/2021
Permit	Permitting Review Complete.	02/02/2021
Engineer	Offset Wells Evaluated.	02/02/2021

Total: 5 comment(s)

FORM 2 Rev

State of Colorado





Document Number:

402576518

Phone: (303) 894-2100 Fax: (303) 894-2109	
APPLICATION FOR PERMIT TO:	Date Received:` 01/27/2021
X Drill Deepen Re-enter Recomplete and Operate	Amend
TYPE OF WELL OIL X GAS COALBED OTHER:	Refile
ZONE TYPE SINGLE ZONE X MULTIPLE ZONES COMMINGLE ZONES	Sidetrack
Well Name: BLEHM WEST Well Number: 8X-HNC-07-07-67	_
Name of Operator: NICKEL ROAD OPERATING LLC COGCC Operator Numl	ber: 10669
Address: 1600 STOUT STREET SUITE 1850	
City: DENVER State: CO Zip: 80202	
Contact Name: JENNIFER LIND Phone: (303)406-1117 Fax: ()	
Email: JENNIFER.LIND@NICKELROADOPERATING.COM	
RECLAMATION FINANCIAL ASSURANCE	
Plugging and Abandonment Bond Surety ID:20200034	
WELL LOCATION INFORMATION	
WELL LOCATION INFORMATION	
Surface Location	
QtrQtr: NENE Sec: 9 Twp: 7N Rng: 67W Meridian: 6	
FNL/FSL FEL/FWL Footage at Surface: 545 Feet FNL 662 Feet FEL	
Latitude: 40.594461 Longitude: -104.891015	
	surement: 11/14/2020
Ground Elevation: 5088	
Field Name: WATTENBERG Field Number: 90750	
Well Plan: is Directional X Horizontal (highly deviated) Vertial	
If Well plan is Directional or Horizontal attach Deviated Drilling Plan and Directional Data.	
Subsurface Locations	
Top of Productive Zone (TPZ)	
Sec: 8 Twp: 7N Rng: 67W Footage at TPZ: 482 FSL	460 FEL
Measured Depth of TPZ: 10617 True Vertical Depth of TPZ: 7015 FNL/FSL	FEL/FWL
Base of Productive Zone (BPZ)	
Sec: 7 Twp: 7N Rng: 67W Footage at TPZ: 484 FSL	460 FWL
Measured Depth of TPZ: 19815 True Vertical Depth of TPZ: 7010 FNL/FSL	FEL/FWL
Bottom Hole Location (BHL)	
Sec: 7 Twp: 7N Rng: 67W Footage at BHL: 484 FSL	460 FWL
FNL/FSL	FEL/FWL

LOCAL GOVERNMENT PERMITTING INFORMATION

County: WELD	Municipalit	y: N/A				
Is the Surface Location of this Well	in an area designated as one	of State interest	and subje	ct to the require	ments of §	
24-65.1-108 C.R.S.? Yes						
Per § 34-60-106(1)(f)(l)(A) C.R.S., proposed Oil and Gas Location.	the following questions pertain	n to the Relevant I	Local Gov	ernment approv	al of the siting	of the
SB 19-181 provides that when "app permit and the disposition of that pe (A) C.R.S.						
Does the Relevant Local Governme	ent regulate the siting of Oil an	d Gas Locations,	with respe	ect to this Locat	ion? X Ye	es No
X If yes, in checking this box, I the siting of the proposed oil	nereby certify that an application and gas location.	on has been filed	with the lo	ocal governmen	t with jurisdiction	on to approve
The disposition of the application fil	ed with the Relevant Local Go	overnment is: Ap	oproved	Date of Fina	al Disposition:	09/03/2020
Comments: 1041WOGLA20-0076	6					
SURFACE AND MINERAL O	OWNERSHIP AT WELL'S	S OIL & GAS				
LOCATION			_			
Surface Owner of the land at this W	ell's Oil and Gas Location:	X Fee	State	Federal	Indian	
Mineral Owner beneath this Well's		X Fee	State	Federal	Indian	
Surface Owner Protection Financial	Assurance (if applicable):		Sur —	ety ID Number	(if applicable):	
MINERALS DEVELOPED WELL) BY					
State State Federal Indian N/A LEASE INFORMATION Using standard QtrQtr, Section, To this Well is within a unit, describe to a unit (Attach a Lease Map or Lease Description) SEE ATTACHED LEASE MAP	ibe a lease that will be develor t, describe the lease that will be	ped by the Well. be produced by th		as follows:		
Total Acres in Described Lease:	142 Described M	lineral Lease is:	X Fee	State	Federal	Indian
Federal or State Lease #				_		_
SAFETY SETBACK INFORMATION						
Distance from Well to nearest:			INSTRUCTI	ONS:		
Building:	2071 Feet			l distances per Ru		
Building Unit:	2071 Feet			30 for distance grone nearest building		I
Public Road:	 533 Feet		Building is	a Building Unit, e		I
Above Ground Utility:	502 Feet		both. - Building l	Jnit – as defined	in 100 Series Rul	es.
Railroad:	5280 Feet					
Kaiiloau.		·				

Prop	perty Line:	524 Feet					
OBJECTIVE FORM	ATIONS						
Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)			
NIOBRARA	NBRR	407-2769	1280	SEC.7&8: ALL			
Federal or State Unit	State Unit Name (if appl): Unit Number:						
SUBSURFACE MIN SETBACKS	ERAL	Enter 5280 for dista	nce greater than 1 mile.				
Is this Well within a uni	t? Yes						
If YES:							
		e Completed Zone of this V		460 Feet			
		·	Vell to the Completed Zone of a	n offset Well within the same			
unit permitted or	completed in the s	ame formation: 150	Feet				
If NO:							
		•	I to the Lease Line of the descri				
		•	I to the Completed Zone of an o	offset Well producing from			
the same lease and	d permitted or com	pleted in the same formation	n: Feet				
Exception Location							
If this Well requires	the approval of a	Rule 401.c Exception Locat	ion, enter the Rule or spacing o	order number and attach the			
Exception Location	Request and Wai	vers.					
SPACING & FORMA	TIONS COMM	IENTO					
SPACING & FURIVIA	ATIONS COMIN	IEN 13					
DRILLING PROGRA	M						
Proposed Total Measur	red Depth: 1981	5 Feet TV	D at Proposed Total Measured	Depth 7010 Feet			
Distance from the property	osed wellbore to no	earest existing or proposed	wellbore belonging to another of	pperator, including plugged wells:			
Enter distance if less th	an or equal to 1,50	00 feet: 397 Feet	No well belonging to and	other operator within 1,500 feet			
Will a closed-loop drilling	ng system be used	? <u>Yes</u>					
Is H ₂ S gas reasonably	-		erations at concentrations great				
or equal to 100 ppm?		_		with the Form 2A per Rule 304.c.(10).			
•		at a depth less than 2,000 for	eet in this well? No				
Will salt sections be en	_						
Will salt based (>15,00		uids be used? No	_				
Will oil based drilling flu		Yes					
BOP Equipment Type:	X Annular Preve	ntor 🔀 Double Ram	Rotating Head	None			
Beneficial reuse or la	and application pla	n submitted? No					
Reuse Facility ID:		or Document Number:					

CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	<u>Grade</u>	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
CONDUCTOR	24	16	N/A	42	0	80	100	80	0
SURF	13+1/2	9+5/8	K55	36	0	1500	415	1500	0
1ST	8+1/2	5+1/2	HCP110	20	0	19815	2550	19815	1000

Conductor Casing is NOT planned

POTENTIAL FLOW AND CONFINING FORMATIONS

Zone Type	Formation /Hazard	<u>Top</u> <u>M.D.</u>	<u>Top</u> <u>T.V.D.</u>	Bottom M.D.	Bottom T.V.D.	<u>TDS</u> (mg/L)	Data Source	Comment
Groundwater	LARAMIE-FOX HILLS	0	0	139	139	1001-10000	Other	CSU - Domestic Water Analysis Report - Larry Moore Well - 176559
Groundwater	UPPER PIERRE	300	300	1314	1314	1001-10000	Other	Water Quality and the Presence and Origin of Methane in the Upper Pierre Aquifer in Northeastern Weld County, Morgan County and Logan County, Colorado COGCC Project Number 2141 October 2017
Confining Layer	PIERRE SHALE	1314	1314	4855	4209			
Hydrocarbon	SUSSEX	4855	4209	5542	4558			
Hydrocarbon	SHANNON	5542	4558	5598	4587			
Confining Layer	PIERRE SHALE	5598	4587	10010	6824			
Hydrocarbon	NIOBRARA	10010	6824	19815	7010			Btm MD=TD, Btm TVD=TVD @ BHL

OPERATOR COMMENTS AND SUBMITTAL

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Co		

Distance from completed portion to nearest completed portion of wellbore permitted/completed in the same formation and subject to the proposed spacing order measured to the WALT 08W-20-01C (Extraction, XX, 05-123-45244). Please note, the portion of the proposed wellbore located within 150' of the offset operator wellbore will not be completed. Distances measured in 3D anti-collision.

This applic	cation is in a Comprehensive Area Plan	No	CAP #:		
Oil and Ga	as Development Plan Name			OGDP ID#	: ::
Location II	D:478497				
I hereby o	ertify all statements made in this form are, to	the best of r	ny knowledge, t	rue, correct, an	d complete.
Signed:			Print Name:	JENNIFER LIN	ND
Title:	VP REG & ENV	Date:	1/27/2021	Email:	JENNIFER.LIND@NICKELRO

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:	2/25/2021			
API NUMBER	Expiration Date:	02/24/2024			
05 123 51527 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.

COA Type	<u>Description</u>
Drilling/Completion Operations	Per COGCC Order 1-232, Bradenhead tests shall be performed according to the following schedule and Form 17 submitted within 10 days of each test: 1) Within 60 days of rig release, prior to stimulation. If any pressure greater than 200 psi, must contact COGCC engineer prior to stimulation. 2) If a delayed completion, 6 months after rig release and prior to stimulation. If any pressure greater than 200 psi, must contact COGCC engineer prior to stimulation. 3) A post-production test within 60 days after first sales, as reported on the Form 10, Certificate of Clearance.
Drilling/Completion Operations	 Submit Form 42 electronically to COGCC 2 business days prior to MIRU (Spud Notice), for the first well/activity on the pad and provide 2 business days spud notice for all subsequent wells drilled on the pad. Comply with Rule 408.j and provide cement coverage from the end of production casing to a minimum of 500' above Niobrara. Verify coverage with cement bond log. Oil-based drilling fluid is to be used only after all aquifers are covered.
	Doct Management Departing

Best Management Practices

No	BMP/COA Type	<u>Description</u>
1	Drilling/Completion Operations	Anti-collision: Operator will perform an anti-collision evaluation of all active (producing, shut in, or temporarily abandoned) offset wellbores that have the potential of being within 150 feet of a proposed well prior to drilling operations for the proposed well. Notice shall be given to all offset operators prior to drilling.
2	Drilling/Completion Operations	Alternative Logging Program: One of the first wells drilled on the pad will be logged with Open Hole Resistivity Log and Gamma Ray Log from the kick-off point to into the surface casing. All wells on the pad 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 openhole logs shall clearly state "Alternative Logging Program - No open-hole logs were run" and shall clearly identify (by API#, well name & number) the well in which openhole logs were run.
3	Drilling/Completion Operations	Operator acknowledges and will comply with COGCC policy for Bradenhead Monitoring during Hydraulic Fracturing treatments in the Greater Wattenberg Area dated May 29, 2012.

Total: 3 comment(s)

Applicable Policies and Notices to Operators

Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area. http://cogcc.state.co.us/documents/reg/Policies/PolicyGwaBradenheadMonitoringFinal.pdf

Attachment List

Att Doc Num	<u>Name</u>
402576518	APD APPROVED
402584960	OffsetWellEvaluations Data
402584962	LEASE MAP
402584963	DEVIATED DRILLING PLAN
402584964	WELL LOCATION PLAT
402584965	DIRECTIONAL DATA
402610880	OFFSET WELL EVALUATION
402610897	FORM 2 SUBMITTED
402610905	PUBLIC COMMENT-0

Total Attach: 9 Files

General Comments

<u>User Group</u>	Comment	Comment Date
Permit	Final Review Completed.	02/25/2021
OGLA	This Location and its associated materials was fully reviewed in the review of this APD in accordance with current Rules. See Sundry doc #402591420 in Location #478497 file for additional information. This APD complies with all COGCC Rules and is adequately protective of public health, safety, welfare, the environment, and wildlife resources. OGLA task passed.	02/24/2021
Permit	Pending - requesting correction to distance to well. In Process - Operator provided corrected distance nearest well and comment. Permitting Review Complete.	02/02/2021
Engineer	Offset Wells Evaluated.	02/02/2021

Total: 4 comment(s)

4917663 08/28/2023 03:43 PM
Total Pages: 1 Rec Fee: \$13.00 Doc Fee: \$0.55
Carly Koppes - Clerk and Recorder, Weld County , CO

MINERAL AND ROYALTY DEED

know ALL MEN BY THESE PRESENTS, That hereinafter called "Grantor" (whether one or more), for and in paid and other good and valuable considerations, which is acknowledged, whose address is including all royalty in and under the oil, gas, and other minerals, including all royalty in and under lands in Weld County, Colorado, to-wit:	or after acquired title and interest in and in the
Township 7 North, Range 67 West, 6th P.M. Section 8: Part of the NE/4 described as Lot 9, Prairie Ridge E recorded July 6, 2005 at Reception No. 3300326	states Subdivision MF-1053, according to the plat
together with the right of ingress and egress at all times for the purposes of m for oil, gas and other minerals and storing, handling, transporting and marketing	ining, drilling, exploring, operating, and developing said lands g the same therefrom.
This sale is made subject to any rights now existing to any lessee record heretofore executed and now of legal record; it being understood and aggranted undivided interest in and to all bonuses, rents, royalties and other beneficovers the above described land from and after the date hereof, precisely a interests at the date of such lease and lessors therein.	firs which may accrue under the terms of said lease insofar as it
This conveyance includes all unpaid past and future royalties, or attributable to the interests herein conveyed.	verriding royalties, bonuses, delay rents, and other revenues
GRANTOR agrees to execute such further assurances as may be rec- granted and likewise agrees that Grantee herein shall have the right at any tim or other liens on the above described lands, upon default of payment by Granto	e to redeem for said Grantor by payment, any mortgage, taxes,
TO HAVE AND TO HOLD the above described property and appurtenances thereunto or in any wise belonging to the said Grantee herein, texecutors and assigns forever, and Grantor does hereby warrant said title representatives, successors and assigns forever against all persons claiming by,	their heirs, successors, personal representatives, administrators, eto Grantee their heirs, executors, administrators, personal through and under Grantor, but not otherwise.
Executed this 15 day of AUSUS+ , 2023, but E	FFECTIVE as of July 1, 2023.
STATE OF LOW MEXICO SS. COUNTY OF SONJAFE SS.	ENT
The foregoing instrument was acknowledged before me this	and acknowledged to me that he/she/they executed the same as orth.
Notary Public (Signed):	Notary
Scal Notary Public (Printed): Aux (A 14 Sala is 5	
My Commission Expires: HPC1 7 2026	LAURA KARINA SALAISES PINUELAS Notary Public - State of New Mexico
RETURN RECORDED ASSIGNMENT TO:	Commission # 1137780 My Comm, Expires Apr 7, 2026
PO Box 1984 Ardmore, OK 73402	Lot 1486b
Submitted By: Paratus Land Management LLC., 301 We	st Main Street, Suite 212, Ardmore, OK 73401



Conveyance Document

Please note the following draft deed/assignment has been prepared by the seller in advance of sale. The successful buyer agrees to accept title to the lots pursuant to said deeds or assignments. Seller shall not be obligated or required to modify or change said deeds or assignments unless a correction is required to properly convey the interests being sold.

MINERAL AND ROYALTY DEED

know all Men By these presents, that hereinafter called "Grantor" (whether one or more), for and in consideration of the sum of Ten Dollars (\$10.00) cash in hand pair and other good and valuable considerations, which is acknowledged, does hereby grant, bargain, sell, convey, and deliver unto whose address is hereinafter called "Grantee", hereinafter called "Grantee"
All of Grantor's right, title & interest and any reversionary or after acquired title and interest in and to all of the oil, gas, and other minerals, including all royalty in and under and that may be produced from the following described lands in Weld County, Colorado, to-wit:
Township 7 North, Range 67 West, 6th P.M. Section 8: Part of the NE/4 described as Lot 9, Prairie Ridge Estates Subdivision MF-1053, according to the plat recorded July 6, 2005 at Reception No. 3300326
together with the right of ingress and egress at all times for the purposes of mining, drilling, exploring, operating, and developing said lands for oil, gas and other minerals and storing, handling, transporting and marketing the same therefrom.
This sale is made subject to any rights now existing to any lessee or assigns under any valid and subsisting oil and gas lease of record heretofore executed and now of legal record; it being understood and agreed that said Grantee shall have, receive, and enjoy the herein granted undivided interest in and to all bonuses, rents, royalties and other benefits which may accrue under the terms of said lease insofar as it covers the above described land from and after the date hereof, precisely as if Grantee herein had been the owner of similar undivided interests at the date of such lease and lessors therein.
This conveyance includes all unpaid past and future royalties, overriding royalties, bonuses, delay rents, and other revenues attributable to the interests herein conveyed.
GRANTOR agrees to execute such further assurances as may be requisite for the full and complete enjoyment of the rights herein granted and likewise agrees that Grantee herein shall have the right at any time to redeem for said Grantor by payment, any mortgage, taxes or other liens on the above described lands, upon default of payment by Grantor, and shall be subrogated to the rights of the holder thereof.
TO HAVE AND TO HOLD the above described property and easement with all and singular the rights, privileges and appurtenances thereunto or in any wise belonging to the said Grantee herein, their heirs, successors, personal representatives, administrators executors and assigns forever, and Grantor does hereby warrant said title to Grantee their heirs, executors, administrators, personal representatives, successors and assigns forever against all persons claiming by, through and under Grantor, but not otherwise.
Executed thisday of, 2025, but EFFECTIVE as of March 1, 2025.
By:
STATE OF
COUNTY OF) SS.
The foregoing instrument was acknowledged before me this day of, 2025, by, to me known to be the identical person(s) who executed the within and foregoing instrument and acknowledged to me that he/she/they executed the same as his/her/their free and voluntary act and deed for the uses and purposes therein set forth.
Notary Public (Signed): Notary
Seal Notary Public (Printed):
My Commission Expires: