FORM 2 Rev

State of Colorado Oil and Gas Conservation Commission

STATE OF COLORADO

Document Number:

Rev 08/13 1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109	OIL& GAS	400533105
APPLICATION FOR PERMIT TO:		
▼ Drill ■ Deepen ■ Re-enter ■ Recomplete and Op	perate	Data Dagaiyadı
TYPE OF WELL OIL 🗵 GAS 🗌 COALBED 🔲 OTHER	Refiling	Date Received: 02/18/2014
ZONE TYPE SINGLE ZONE X MULTIPLE ZONES COMMINGLE ZONES	Sidetrack	02/10/2014
Well Name: Mahalo State Well Number: AA09-78	HNC	
Name of Operator: NOBLE ENERGY INC COGO	CC Operator Num	nber:100322
Address: 1625 BROADWAY STE 2200		
City: DENVER State: CO Zip: 80202		
Contact Name: Justin Garrett Phone: (303)228 4449 Fax: (303) Email: JDGarrett@nobleenergyinc.com	9)228 4286	
RECLAMATION FINANCIAL ASSURANCE		
Plugging and Abandonment Bond Surety ID:20030009		
WELL LOCATION INFORMATION QtrQtr: SWSW Sec: 4 Twp: 6N Rng: 63W Meridian: 6 Latitude: 40.508730 Longitude: -104.450150 FNL/FSL FEL/FWL Footage at Surface: 75 feet FSL 300 feet FWL Field Name: WATTENBERG Field Number: 90750 Ground Elevation: 4707 County: WELD GPS Data: Date of Measurement: 07/11/2013 PDOP Reading: 1.8 Instrument Operator's Name: 1/2014 Name: 1	Adam Kelly FEL/FW 700 FWL 6N Rng:	<u>. </u>
Surface Ownership:		

LEASE INFORMATION						
Using standard QtrQtr, Sec, Twp, R beneath surface location if produced					this well (Describe lease	
T6N-R63W Section 9: All that par	t of the SW/	4 lying North of the Union	Pacific Railroa	d Company's rig	ht-of-way.	
Total Acres in Described Lease:	40	Described Mineral Le	ease is: 🗵 Fee	e 🔲 State	Federal Indian	
Federal or State Lease # CO	9056.6	_				
Distance from Completed Portion of	Wellbore to	Nearest Lease Line of de	escribed lease:	0	Feet	
CULTURAL DISTANCE INFORMA	TION			INSTRUCTIONS:		
Distance to nearest:				the Proposed W	ents shall be provided from center of cell to nearest of each cultural	
Building:	5280	Feet			ibed in Rule 303.a.(5). distance greater than 1 mile.	
Building Unit:		- Feet		- Building - near	est building of any type. If nearest	
High Occupancy Building Unit:		- Feet		Building is a Buil both.	ding Unit, enter same distance for	
Designated Outside Activity Area:		Feet		1	High Occupancy Building Unit, and	
Public Road:	3254	- Feet		100-Series Rules	side Activity Area - as defined in s.	
Above Ground Utility:	3196	Feet				
Railroad:	5280	Feet				
Property Line:	2349	Feet				
DESIGNATED SETBACK LOCATION	ON INFORM	MATION			as described in Rule 604.a.(2), within	
Check all that apply. This location is	within a:	■ Buffer Zone■ Exception Zone		within 500' of a	e - as described in Rule 604.a.(1),	
		Urban Mitigation Are	ea	Rules.		
Pre-application Notifications (require	ed if location	is within 1,000 feet of a b	ouilding unit):			
Date of Rule 305.a.(1) Urban M	litigation Are	ea Notification to Local G	overnment:			
Date of Rule 305.a.(2) Buffer Z	one Notifica	tion to Building Unit Own	ers:			
SPACING and UNIT INFORMATIO	N					
Distance from Completed Portion of	Wellbore to	Nearest Wellbore Permit	tted or Complete	ed in the same f	ormation: 148 Feet	
Distance from Completed Portion of	Wellbore to	Nearest Unit Boundary	621 Fe	et (Enter 5280 fo	or distance greater than 1 mile.)	
Federal or State Unit Name (if appl)	:			Unit Nur	mber:	
SPACING & FORMATIONS COMM	IENTS					
Unit configuration = Sec 9: W/2W this well.	7/2, Sec 16:	NW/4NW/4. State lease (CO 9056.6 is als	so within spacing	g unit and will be produced by	
OBJECTIVE FORMATIONS						
Objective Formation(s) Formation	n Code	Spacing Order Number(s)	Unit Acreage As	ssigned to Well	Unit Configuration (N/2, SE/4, etc.)	
NIOBRARA NBRR			20	00	GWA	
DRILLING PROGRAM						
Proposed Total Measured Depth:	11759	Feet				
Distance to nearest permitted or existing wellbore penetrating objective formation: 148 Feet (Including plugged wells)						
Will a closed-loop drilling system be used? Yes						
Is H ₂ S gas reasonably expected t	o be encour	ntered during drilling oper	ations at concer	ntrations greater	than	
or equal to 100 ppm? No (If Yes, attac	or equal to 100 ppm? No (If Yes, attach an H2S Drilling Operations Plan)				

Will salt secti	ons be encour	ntered during drillin		<u> </u>				
		om CI) drilling fluids	be used?	No				
Will oil based	drilling fluids	be used? No)					
BOP Equipm	ent Type: 🔀	Annular Preventor	▼ Doub	ole Ram 🔽 I	Rotating Head	No.	one	
GROUNDWAT	ER BASELINI	E SAMPLING AND	MONITOR	ING AND WATER	WELL SAMPLI	NG		
Water well sa	ampling require	ed per Rule 31	8A					
DRILLING WA	STE MANAGE	EMENT PROGRAM						
						ı		
Drilling Fluids	· -	OFFSITE		luids Disposal Me				
Cuttings Disp	osal: OFF	SITE	Cı	uttings Disposal Mo	ethod: Beneficial	reuse		
Other Dispos	al Description:	:						
Beneficial	reuse or land a	application plan sul	bmitted?	Yes				
Reuse Fa	acility ID:	or D	ocument Nu	mber: 2614238				
	ND 414			<u> </u>				
CASING PROC								
Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth		Cmt Btm	Cmt Top
				0	100	6	100	0
	18+1/2	16	0		1	360		0
SURF	13+3/4	9+5/8	36	0	770	360 480	770	0
SURF 1ST	+				1	360 480		0
SURF 1ST 1ST LINER Conductor	13+3/4 8+3/4 6+1/8 Casing is NO	9+5/8 7 4+1/2	36 26 11.6	0	770 7124		770	0
SURF 1ST 1ST LINER Conductor DESIGNATED Check all that a Rule 604. Rule 604. Rule 604. Rule 604. Rule 604. Rule 604.	13+3/4 8+3/4 6+1/8 Casing is NO SETBACK LO apply: a.(1)A. Except b.(1)A. Except a.) b.(1)B. Except on after Locati b.(2) Exception	9+5/8 7 4+1/2 T planned DCATION EXCEPT ion Zone (within 50 ion Location (existion Location approval) n Location (SUA or	36 26 11.6 TIONS O' of Buildin ng or approven approven site-specific	0 0 6974 g Unit) ved Oil & Gas Located Oil & Gas Located Coll & Gas Located Coll & Gas Located College (College	770 7124 11759 ation now within a line executed on or	a Designated Designated Se before Augus	770 7124 Setback as a stback due to	result of Building Un
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OTHER LO	CATION EXCEPTIONS
Check all tha	at apply:
Rule	318.c. Exception Location from Rule or Spacing Order Number
Rule	603.a.(2) Exception Location (Property Line Setback).
	otions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. certifications, SUAs).
OPERATOR	R COMMENTS AND SUBMITTAL
Comments	1st string top of cement is 200' above Niobrara. The production liner will be hung off inside 7" casing. Well is part of a 21 -well pad disturbance consisting of the existing NCLP PC AA04-62-1HN and NCLP PC AA04-63-1HN, and the proposed 19-Well Pad in 3 areas: Area A = NCLP AA06-63-1HNB (Ref. Well), NCLP AA06-62-1AHNC, NCLP AA06-62-1BHNC, NCLP AA06-62-1HNA, NCLP AA07-69HNA; Area B = NCLP AA07-69-1HNA, NCLP AA07-69-1AHNC, Mahalo State AA09-79HNC, Mahalo State AA09-79-1AHNB, Mahalo State AA09-79-1BHNB, Mahalo State AA09-78-1BHNC, Mahalo State AA09-78-1HNB; Area C = Mahalo State AA09-78-1BHNC, Mahalo State AA09-77-1HNB, Mahalo State AA09-76-1AHNC, & Mahalo State AA09-76-1HNB. The production facility will be located 333' E of the pad (Doc #400533115). Nearest permitted/producing wellbore is the Gibson 11-9 (API: 05-123-23102). The railroad mentioned in the lease description has been abandoned. There is no railroad within one mile.
This applica	ation is in a Comprehensive Drilling Plan CDP #:
Location ID	D: 432592
Is this appl	lication being submitted with an Oil and Gas Location Assessment application? Yes
I hereby ce	ertify all statements made in this form are, to the best of my knowledge, true, correct, and complete.
Signed:	Print Name: Justin Garrett
Title:	Regulatory Analyst Date: 2/18/2014 Email: RegulatoryNotification@noblee
water right law. Operat	nust have a valid water right or permit allowing for industrial use or purchased water from a seller that has a valid or permit allowing for industrial use, otherwise an application for a change in type of use is required under Colorado tor must also use the water in the location set forth in the water right decree or well permit, otherwise an application ge in place of use is required under Colorado law. Section 37-92-103(5), C.R.S. (2011).
	e information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders by approved. Director of COGCC Date: 3/14/2014
05 123	API NUMBER Expiration Date: 03/13/2016

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>
	Open hole resistivity and gamma logs shall be run to describe the stratigraphy of the entire well bore and to adequately verify the setting depth of surface casing and aquifer coverage. On a multi-well pad, these open hole logs are only required on one of the first wells drilled on the pad and the Drilling Completion Report - Form 5 for every well on the pad shall identify which well was logged.
	 Submit Form 42 electronically to COGCC 48 hours prior to MIRU. Comply with Rule 317.i and provide cement coverage from end of 7" casing to a minimum of 200' above Niobrara. Verify coverage with cement bond log. Comply with Rule 321. Run and submit Directional Survey from TD to base of surface casing. Ensure that the wellbore complies with setback requirements in commission orders or rules prior to producing the well.

Best Management Practices				
No	BMP/COA Type	<u>Description</u>		
1	General Housekeeping	Housekeeping will consist of neat and orderly storage of materials and fluids. Wastes will be temporarily stored in sealed containers and regularly collected and disposed of at offsite, suitable facilities. If spills occur prompt cleanup is required to minimize any commingling of waste materials with stormwater runoff. Routine maintenance will be limited to fueling and lubrication of equipment. Drip pans will be used during routine fueling and maintenance to contain spills or leaks. Any waste product from maintenance will be containerized and transported offsite for disposal or recycling. There will be no major equipment overhauls conducted onsite. Equipment will be transported offsite for major overhauls. Cleanup of trash and discarded materials will be conducted at the end of each work day. Cleanup will consist of patrolling the roadway, access areas, and other work areas to pickup trash, scrap debris, other discarded materials, and any contaminated soil. These materials will be disposed of properly		
2	Storm Water/Erosion Control	Stormwater management plans (SWMP) are in place to address construction, drilling and operations associated with Oil & Gas development throughout the state of Colorado in accordance with Colorado Department of Public Health and Environment (CDPHE) General Permit No. COR- 038637. BMP's will be constructed around the perimeter of the site prior to, or at the beginning of construction. BMP's used will vary according to the location, and will remain in place until the pad reaches final reclamation.		
3	Material Handling and Spill Prevention	Spill Prevention Control and Countermeasures (SPCC) plans are in place to address any possible spill associated with Oil & Gas operations throughout the state of Colorado in accordance with CFR 112.		
4	Drilling/Completion Operations	Anti-collision: Prior to drilling operations, Operator will perform an anti-collision scan of existing offset wells that have the potential of being within close proximity of the proposed well. This anti-collision scan will include definitive MWD or gyro surveys of the offset wells with included error of uncertainty per survey instrument, and compared against the proposed wellpath with its respective error of uncertainty. If current surveys do not exist for the offset wells, Operator may have gyro surveys conducted to verify bottomhole location. The proposed well will only be drilled if the anti-collision scan results indicate that there is not a risk for collision, or harm to people or the environment. For the proposed well, upon conclusion of drilling operations, an asconstructed gyro survey will be submitted to COGCC with the Form 5. During and Post stimulation: Noble Energy will comply with the COGCC Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area dated 5/29/12		

Total: 4 comment(s)

Applicable Policies and Notices to Operators

Notice Concerning Operating Requirements for Wildlife Protection.

Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area.

Attachment Check List

Att Doc Num	<u>Name</u>
400533105	FORM 2 SUBMITTED
400556355	OffsetWellEvaluations Data
400556356	DIRECTIONAL DATA
400556359	DEVIATED DRILLING PLAN
400556360	PLAT
400556361	SURFACE AGRMT/SURETY
400556364	VARIANCE REQUEST
400556366	EXCEPTION LOC WAIVERS
400556367	EXCEPTION LOC REQUEST
400556368	PROPOSED SPACING UNIT
400556369	EXCEPTION LOC WAIVERS

Total Attach: 11 Files

General Comments

User Group	Comment	Comment Date
Permit	Final review complete.	3/12/2014 10:02:37 AM
Permit	The source deed that the legal description for this lease was pulled from is dated 4/16/1918. At that time there was a Union Pacific railroad located across section 9. It appears that the railroad is no longer there, and that the existing right-of-way is now being used for Highway 392. The described lease on the permit would be in the N/2 of the section to the south and east of HWY 392 and the RR is more than a mile away. Inserted state lease number in the surface and minerals tab, attached corrected Proposed Spacing Unit, as per opr. SLB approves this location and their bond is in good order. Corrected lease description and acreage as per opr. Ready to pass pending public comment 3/11/14.	2/25/2014 7:34:53 AM
Permit	Passed completeness.	2/18/2014 2:24:50 PM

Total: 3 comment(s)