FORM 2A Rev 08/13

State of Colorado Oil and 1120

Document Number:

401152362

Oil an

otate of colorado	PINI
Gas Conservation Commission	
Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109	co
d Gas Location Assessment	TM V

Date Received:

New Location Refile Amend Existing Location Location#: 448902	07/2016
This Oil and Gas Location Assessment is to be submitted to the COGCC for approval prior to any ground disturbance activity associated with oil and gas operations. Approval of this Oil and Gas Location Assessment will allow for the construction of the below specified Location; however, it does not supersede any land use rules applied by the local land use authority. Please see the COGCC website at http://cogcc.state.co.us/ for all accompanying information pertinent this Oil and Gas Location Assessment. Locati 44890 Expira 01/112	2 tion Date:
This location assessment is included as part of a permit application.	
CONSULTATION	
This location is included in a Comprehensive Drilling Plan. CDP #	
This location is in a sensitive wildlife habitat area.	
This location is in a wildlife restricted surface occupancy area.	
This location includes a Rule 306.d.(1)A.ii. variance request.	
Operator Contact Information	
Operator Number: 100322 Name: Justin Garrett	
Name: NOBLE ENERGY INC Phone: (303) 228 4449	
Address: 1625 BROADWAY STE 2200 Fax: ()	
City: DENVER State: CO Zip: 80202 email: Justin.Garrett@nblenergy.com	n
RECLAMATION FINANCIAL ASSURANCE	
Relugging and Abandonment Bond Surety ID: 20030009 Gas Facility Surety ID:	
Waste Management Surety ID:	
LOCATION IDENTIFICATION	
Name: England Rydgren Number: L01 Tank	
County: WELD	
QuarterQuarter: NWSW Section: 8 Township: 4N Range: 64W Meridian: 6 Ground Ele	vation: 4829
Define a single point as a location reference for the facility location. When the location is to be used as a well site then the a well location.	point shall be
Footage at surface: 1975 feet FSL from North or South section line	
79 feet FWL from East or West section line	
Latitude: 40.325040 Longitude: -104.583710	
PDOP Reading: 1.3 Date of Measurement: 10/24/2016	
Instrument Operator's Name: Charles Scott	

•	nter the Form 2A docum	ient # only if there is no e	established COGCC Location ID#)
This proposed Oil and Gas Location is:	LOCATION ID #	FORM 2A DOC #	
Production Facilities Location serves Well(s)	331293		
	322698 310870		
	309757		
FACILITIES			
FACILITIES			
Indicate the number of each type of oil and gas facil Wells Oil Tanks*	• •	Water Tanke*	Puriod Produced Water Voulte*
	2 Condensate Tanks*	Water Tanks*	Buried Produced Water Vaults* —
	Special Purpose Pits Injection Pumps*	Multi-Well Pits*	Modular Large Volume Tanks
Pump Jacks Separators* Gas or Diesel Motors* Electric Motors	1 Injection Pumps* Electric Generators*	Cavity Pumps* Fuel Tanks*	Gas Compressors* — LACT Unit*
Dehydrator Units* Vapor Recovery Unit*	VOC Combustor*	2 Flare*	Pigging Station*
OTHER FACILITIES*			
Other Facility Type		<u>Number</u>	
Per Rule 303.b.(3)C, description of all oil, gas, and/o Four (4) 3-8" Flowline, One (1) 3-8" Gas Line - No		e added to this site	
CONSTRUCTION Date planned to commence construction: 02/ Estimated date that interim reclamation will be	17/2017 Size gin: 02/22/2017 Si	e of disturbed area dur	ring construction in acres: 0.50 erim reclamation in acres: 0.50
Four (4) 3-8" Flowline, One (1) 3-8" Gas Line - No CONSTRUCTION Date planned to commence construction: 02/ Estimated date that interim reclamation will beg Estimated post-construction ground elevation:	17/2017 Size gin: 02/22/2017 Si	e of disturbed area dur	
Four (4) 3-8" Flowline, One (1) 3-8" Gas Line - No CONSTRUCTION Date planned to commence construction: 02/ Estimated date that interim reclamation will be estimated post-construction ground elevation: DRILLING PROGRAM	17/2017 Size gin: 02/22/2017 Si 4829	e of disturbed area dur	
Four (4) 3-8" Flowline, One (1) 3-8" Gas Line - No CONSTRUCTION Date planned to commence construction: 02/ Estimated date that interim reclamation will be estimated post-construction ground elevation: DRILLING PROGRAM Will a closed loop system be used for drilling flowers.	17/2017 Size gin: 02/22/2017 Si 4829	e of disturbed area dur	
Four (4) 3-8" Flowline, One (1) 3-8" Gas Line - No CONSTRUCTION Date planned to commence construction:02/ Estimated date that interim reclamation will beg Estimated post-construction ground elevation: DRILLING PROGRAM Will a closed loop system be used for drilling flats H2S anticipated?	17/2017 Size gin: 02/22/2017 Si 4829 uids:	e of disturbed area dur	
Four (4) 3-8" Flowline, One (1) 3-8" Gas Line - No CONSTRUCTION Date planned to commence construction:02/ Estimated date that interim reclamation will beg Estimated post-construction ground elevation: DRILLING PROGRAM Will a closed loop system be used for drilling flats H ₂ S anticipated? Will salt sections be encountered during drilling	p proposed pipeline to b 17/2017 Size gin: 02/22/2017 Si 4829 uids:	e of disturbed area dur	
Four (4) 3-8" Flowline, One (1) 3-8" Gas Line - No CONSTRUCTION Date planned to commence construction:02/ Estimated date that interim reclamation will beg Estimated post-construction ground elevation: DRILLING PROGRAM Will a closed loop system be used for drilling fluids and the sections be encountered during drilling will salt sections be encountered during drilling will salt based mud (>15,000 ppm Cl) be used	p proposed pipeline to b 17/2017 Size gin: 02/22/2017 Si 4829 uids:	e of disturbed area dur	
Four (4) 3-8" Flowline, One (1) 3-8" Gas Line - No CONSTRUCTION Date planned to commence construction:02/ Estimated date that interim reclamation will beg Estimated post-construction ground elevation: DRILLING PROGRAM Will a closed loop system be used for drilling fluids alt sections be encountered during drilling Will salt sections be encountered during drilling Will salt based mud (>15,000 ppm Cl) be used Will oil based drilling fluids be used?	p proposed pipeline to b	e of disturbed area dur	
Four (4) 3-8" Flowline, One (1) 3-8" Gas Line - No CONSTRUCTION Date planned to commence construction:02/ Estimated date that interim reclamation will beg Estimated post-construction ground elevation: DRILLING PROGRAM Will a closed loop system be used for drilling fluids alt sections be encountered during drilling Will salt sections be encountered during drilling Will salt based mud (>15,000 ppm Cl) be used Will oil based drilling fluids be used? DRILLING WASTE MANAGEMENT PROGRA	p proposed pipeline to b 17/2017 Size gin: 02/22/2017 Si 4829 uids: g:	e of disturbed area dur ze of location after inte	erim reclamation in acres: 0.5
Four (4) 3-8" Flowline, One (1) 3-8" Gas Line - No CONSTRUCTION Date planned to commence construction: 02/ Estimated date that interim reclamation will be estimated post-construction ground elevation: DRILLING PROGRAM Will a closed loop system be used for drilling fluids alt sections be encountered during drilling will salt based mud (>15,000 ppm Cl) be used will oil based drilling fluids be used? DRILLING WASTE MANAGEMENT PROGRAD Drilling Fluids Disposal:	p proposed pipeline to be 17/2017 Size 17/2017 Size 18/29 Size 18/	e of disturbed area dur ze of location after inte	erim reclamation in acres: 0.5
Four (4) 3-8" Flowline, One (1) 3-8" Gas Line - No CONSTRUCTION Date planned to commence construction:02/ Estimated date that interim reclamation will beg Estimated post-construction ground elevation: DRILLING PROGRAM Will a closed loop system be used for drilling fluids alt sections be encountered during drilling Will salt sections be encountered during drilling Will salt based mud (>15,000 ppm Cl) be used Will oil based drilling fluids be used? DRILLING WASTE MANAGEMENT PROGRA Drilling Fluids Disposal: Cutting Disposal:	p proposed pipeline to be 17/2017 Size 17/2017 Size 18/29 Size 18/	e of disturbed area dur ze of location after inte	erim reclamation in acres: 0.5
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SURFACE & MINERALS & RIGHT TO CONSTRUCT
Name: Jeffrey & Mary Gardener Phone:
Address: 22342 County Road 51 Fax:
Address: Email:
City: Kersey State: CO Zip: 80644
Surface Owner: 🗵 Fee 🔲 State 🗎 Federal 🔲 Indian
Check all that apply. The Surface Owner: is the mineral owner
is committed to an oil and Gas Lease
has signed the Oil and Gas Lease is the applicant
The Mineral Owner beneath this Oil and Gas Location is: 🗵 Fee 🔲 State 🔲 Federal 📗 Indian
The Minerals beneath this Oil and Gas Location will be developed from or produced to this Oil and Gas Location: Yes
The right to construct this Oil and Gas Location is granted by: oil and gas lease
Surface damage assurance if no agreement is in place: Surface Surface Surety ID:
Date of Rule 306 surface owner consultation 09/22/2016
CURRENT AND FUTURE LAND USE
Current Land Use (Check all that apply):
Crop Land: Irrigated Dry land Improved Pasture Hay Meadow CRP
Non-Crop Land: 🗵 Rangeland 🔲 Timber 🔲 Recreational 🗎 Other (describe):
Subdivided: Industrial Commercial Residential
Future Land Use (Check all that apply):
Crop Land: ☐ Irrigated ☐ Dry land ☐ Improved Pasture ☐ Hay Meadow ☐ CRP
Non-Crop Land: ☒ Rangeland ☐ Timber ☐ Recreational ☐ Other (describe):
Subdivided: Industrial Commercial Residential

CULTURAL DISTANCE INFORMAT	ION			
Provide the distance to the nearest c	ultural feature as me	asured from	n Wells or	INSTRUCTIONS: - All measurements shall be provided from
Production Facilities onsite.				center of nearest Well or edge of nearest
	From WELL	From PR	ODUCTION	Production Facility to nearest of each cultural feature as described in Rule 303.b.
Building:	Feet	_	Feet	(3)A. - Enter 5280 for distance greater than 1
Building Unit:	Feet	185	Feet	mile.
High Occupancy Building Unit:	Feet	5280	Feet	 Building - nearest building of any type. If nearest Building is a Building Unit, enter
Designated Outside Activity Area:	Feet	5280	Feet	same distance for both.
Public Road:	Feet	65	Feet	 Building Unit, High Occupancy Building Unit, and Designated Outside Activity Area
Above Ground Utility:	Feet	31	Feet	- as defined in 100-Series Rules.
Railroad:	Feet	5280	Feet	-For measurement purposes only, Production Facilities should only include
Property Line:	Feet	25	Feet	those items with an asterisk(*) on the Facilities Tab.
				Facilities rab.
DESIGNATED SETBACK LOCATION	N INFORMATION			
Check all that apply. This location is				- Buffer Zone - as described in Rule 604.a. (2), within 1,000' of a Building Unit.
□ Buffer Zone				- Exception Zone - as described in Rule
				604.a.(1), within 500' of a Building Unit Urban Mitigation Area - as defined in 100
Urban Mitigation Area				Series Rules.
				 - Large UMA Facility – as defined in 100- Series Rules.
Pre-application Notifications (required			.	
Date of Rule 305.a.(1) Urban Mi	tigation Area Notifica	ation to Loca	al Government:	<u></u>
Date of Rule 305.a.(2) Buffer Zo	ne Notification to Bu	ilding Unit C	Owners: 10/26/2016	_
FOR MULTI-WELL PADS AND PRO	DUCTION FACILTI	ES WITHIN	DESIGNATED SETBA	ACK LOCATIONS ONLY:
Production Facilities are propose	d to be located less to the state of the Production	than 1,000 fo Facilities th	eet from a Building Unit aat are farther from the I	ve multiple wells (on or offsite) and the at (Pursuant to Rule 604.c.(2)E.i., the operator Building Unit, and determine whether those proposed development.)
By checking this box, I certify that available based on the analysis c	no alternative place onducted pursuant to	ments for th Rule 604.c	ne Production Facilities, c.(2)E.i.	farther from the nearest Building Unit, were
In the space below, explain rationale Attach documentation that supports y				ports your Rule 604.c.(2)E.i determination.
SOIL List all soil map units that occur report showing the "Map Unit Desegregating topsoil.				Resource Conservation Service (NRCS) file. This data is to used when
The required information can be COGCC web site GIS Online may web site help section.				amart.nrcs.usda.org/ or from the ctions are provided within the COGCC
NRCS Map Unit Name: 62 – Te	erry fine sandy Loa	am, 0-3 pei	rcent slopes	
NRCS Map Unit Name:				
NDCC Man Unit Name				

PLANT COMMUNITY: Complete this section only if any portion	of the disturb	oed area of the loca	tion's current land	d use is on non	-crop land.
Are noxious weeds present: Yes					
Plant species from: NRCS o		` ⊠ field observatio	n Date o	f observation:	09/22/2016
List individual species:	• •	, Thora observation			
Check all plant communities that exist in Disturbed Grassland (Cactus, Yucca Native Grassland (Bluestem, Grama Shrub Land (Mahogany, Oak, Sage, Plains Riparian (Cottonwood, Willow Mountain Riparian (Cottonwood, Willow Forest Land (Spruce, Fir, Ponderosa Wetlands Aquatic (Bullrush, Sedge, Alpine (above timberline)	, Cheatgrass , Wheatgrass Serviceberry , Aspen, Map low, Blue Spr , Pine, Lodge	, Rye) s, Buffalograss, Fesc r, Chokecherry) sle, Poplar, Russian ruce) pole Pine, Juniper, I	Olive, Tamarisk)	ome)	
WATER RESOURCES					
Is this a sensitive area: No 🗵 Ye	es				
Distance to nearest					
downgradient surface water feature	e:530 Fe	eet			
water well:1040 Feet					
Estimated depth to ground water at Oil a	nd Gas Locat	tion 13 Feet			
Basis for depth to groundwater and	I sensitive are	ea determination:			
This location is considered a sensitive (Neres Canal is 530' SE of location), a	area, based on nd there are oc	n depth of groundwate ccupied buildings withi	(SWL 13'), proxim n 1,000' of location	ity to down-grad	ient surface water
Is the location in a riparian area: X No	Yes				
Was an Army Corps of Engineers Section	n 404 permit	filed 🗵 No 🔲 Yes	If yes attach pe	rmit.	
Is the location within a Rule 317B Surfactione:	e Water Supp	oly Area buffer	No		
If the location is within a Rule 317E within 15 miles been notified:	Surface Wat	ter Supply Area buff	er have all public	water supply s	ystems
Is the Location within a Floodplain?	lo Yes	Floodplain Data S	ources Reviewed	(check all that	apply)
		▼ Federal (FEMA)		
		State			
		County			
		Local			
		Other			
GROUNDWATER BASELINE SAMPLIN	G AND MON	ITORING AND WAT	ER WELL SAMF	LING	
Water well sampling required per F	Rule 318A	<u> </u>			
WILDLIFE					
This location is included in a Wildlif	e Mitigation F	Plan			

This location was subject to a pre-consultation meeting with CPW held on	
DESIGNATED SETBACK LOCATION EXCEPTIONS	
Check all that apply:	
Rule 604.a.(1)A. Exception Zone (within 500' of a Building Unit) and is in an Urban Mitigation Area	
Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of	
Rule 604.a.)	
Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)	
Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)	
Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)	
RULE 502.b VARIANCE REQUEST	
Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number	
ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).	
OPERATOR COMMENTS AND SUBMITTAL	
Comments Noble will be rerouting existing fence and increasing the disturbance by to the east to accommodate for the new VOC]
combustor. The property line will be greater than 31' from the nearest piece of equipment.	
4 Associated wells: RYDGREN 8-1 (API# 05-123-11897, LOC ID: 322698) located approx. 574' east of location,	
RYDGREN 8-31 (API# 05-123-20445, LOC ID: 331293) located approx. 2,108' east of location, ENGLAND 8-3-17 (API# 05-123-27160, LOC ID: 310870) located approx. 1,063' northeast of location, ENGLAND 8-35 (API# 05-123-25347, LOC	
ID: 309757) located approx. 1,387' southeast of location.	
Existing Equipment includes: One (1) Separator, Two (2) Water Vaults, Two (2) Oil Tanks, One (1) VOC Combustor.	
Total Equipment includes: One (1) Separator, Two (2) Water Vaults, Two (2) Oil Tanks, Two (2) VOC Combustors.	
I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.	
Signed: Date: 12/07/2016 Email: RegulatoryNotification@nblenergy.com	
Print Name: Justin Garrett Title: Regulatory Analyst	
This regulatory reliance	
Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders	_
and is hereby approved.	
COGCC Approved: Director of COGCC Date: 1/13/2017	
Conditions Of Approval	
Conditions Of Approval	
All representations, stipulations and conditions of approval stated in this Form 2A for this location shall constitute representations, stipulations and conditions of approval for any and all subsequent operations on	
the location unless this Form 2A is modified by Sundry Notice, Form 4 or an Amended Form 2A.	
COA Type Description	
<u>GOA Type</u> <u>Description</u>	7

Best Management Practices						
	BMP/COA Type	<u>Description</u>				
1	Planning	Planning: Lighting will not be used on location during construction activities.				
2	Planning	Planning: A VOC will be added to the existing production facility location, with an increase of disturbance of approximately 2,500 square feet east of the existing production tanks.				
3	Traffic control	Traffic Control: Construction operations – Based on construction of adding one VOC and increasing disturbance area by approximately 2,500 square/feet, the need for dust suppression is unlikely. If dust suppression is needed, it could include a combination of water, magnesium chloride, or calcium chloride. Limited traffic speed will be used for dust mitigation.				
4	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.				
5	General Housekeeping	General Housekeeping: All surface trash, debris, scrap or discarded material connected with the operations of the property shall be removed from the premises or disposed of in a legal manner.				
6	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 and maintained until the pad reaches final reclamation.				
7	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.				
8	Construction	Construction: Fencing is not planned with this construction activity.				
9	Construction	Construction: At the time of construction, all leasehold roads shall be constructed to accommodate local emergency vehicle access requirements, and shall be maintained in a reasonabl condition.				
10	Noise mitigation	Noise Mitigation: Construction operations – Construction activities will take place during the day, and there are no foreseen noise impacts associated with the construction and equipment being installed.				

Total: 10 comment(s)

Attachment Check List

Att Doc Num	<u>Name</u>
2316037	RULE 306.E. CERTIFICATION
401152362	FORM 2A SUBMITTED
401162240	NRCS MAP UNIT DESC
401162241	ACCESS ROAD MAP
401162243	HYDROLOGY MAP
401162244	LOCATION PICTURES
401162246	LOCATION DRAWING
401162247	REFERENCE AREA MAP
401162249	REFERENCE AREA PICTURES
401162250	FACILITY LAYOUT DRAWING
401162252	OTHER
401166893	RULE 305A CERTIFICATION OF COMPLIANCE

Total Attach: 12 Files

General Comments

<u>User Group</u>	Comment	Comment Date
Permit	Final Review Completed.	01/13/2017
OGLA	No comments to COGCC or LGD from the public. LGD commented on county requirements for the location. OGLA review complete and task passed.	01/10/2017
OGLA	Noble is amending this location by expanding the disturbed area and adding a VRU for emissions controls. The 1999 Google Earth Aerials the tank battery is present with 1 tank and 1 separator with the nearest building units approximately 400 feet north and 900 feet southeast of the location. In the 2004 aerial photo a new building unit is visible approximately 200 feet from this location. In the 2010 aerials, an additional tank and separator is visible on the location. The approval of this Form 2A does not exempt the Operator from the 600-series setback rules or other non-compliance issues at the time of construction of any equipment.	01/09/2017
OGLA	OGLA supervisor review - create location ID 448902 and change to an amended location.	01/09/2017
OGLA	Spoke with Operator via phone to discuss cultural distances. Distances on 2A were from edge of distrubance. Updated to be from nearest equipment to cultural object. Attached 306e certification letter.	01/04/2017
Permit	OGLA Review: Existing tank battery location with exception request for Rule 604.b. (1)A. adding a VOC equipment. Distances to cultural distances appear to be from the edge of disturbance and not from equipment - check with Operator.	01/03/2017
LGD	No comment.Minor change to location to add air pollution control device. This activity is similar to a workover or remediation and shouldnt warrant a permitting/comment process other than surface owner notification/agreement. Per Weld County Code, modifications to existing oil and gas locations to meet the terms of Compliance Orders are considered a Use by Right and no Weld Oil and Gas Location Assessment (WOGLA) is required. A building permit is required for the production facilities (tank battery, separators, pump jacks, compressors, generators, etc.) from the Department of Planning Services. Troy Swain, Weld Oil and Gas Liaison and LGD (970) 400-3579.	12/22/2016
Permit	Verified that 305.a letter is attached. Passed completeness.	12/14/2016
OGLA	Buffer Zone completeness review - contacted operator and pushed to Draft for 305.a certification letter, no other completeness issues were identified.	12/14/2016
Permit	Referred to OGLA Supervisor for Buffer and Exception Zone Review.	12/09/2016

Total: 10 comment(s)