

FORM  
2A

Rev  
01/21

# State of Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203  
Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

402770498

**(SUBMITTED)**

Date Received:

10/01/2021

Location ID:

Expiration Date:

## Oil and Gas Location Assessment

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 <https://cogcc.state.co.us/> for all accompanying information pertinent this Oil and Gas Location Assessment.

New Location     Refile     Amend Existing Location # \_\_\_\_\_

If this Location assessment is a component of an Oil and Gas Development Plan (OGDP) application, enter the OGDP docket number(s).

Docket Number	OGDP ID	OGDP Name
210900153		

If this Location assessment is part of an existing Oil and Gas Development Plan, enter the OGDP ID number(s).

<No existing OGDP number provided>

## CONSULTATION

- This location is included in a Comprehensive Area Plan (CAP). CAP ID # \_\_\_\_\_
- This Location or its associated new access road, utility, or Pipeline corridor meets Rule 309.e.(2).A, B, or C.
- This Location is within 2,640 feet of a GUDI or Type III Well per Rule 411.b.(4).
- This Location includes a Rule 309.e.(2).E variance request.
- This location includes a Rule 309.f.(1).A.ii. variance request.

## Operator

Operator Number: 47120

Name: KERR MCGEE OIL & GAS ONSHORE LP

Address: P O BOX 173779

City: DENVER      State: CO      Zip: 80217-3779

## Contact Information

Name: Rachel Friedman

Phone: (720) 92996564

Fax: ( )

email: djregulatory@oxy.com

## FINANCIAL ASSURANCE

- Plugging and Abandonment Bond Surety ID (Rule 706): 20010124     Gas Facility Surety ID (Rule 711): \_\_\_\_\_
- Waste Management Surety ID (Rule 704): \_\_\_\_\_

## LOCATION IDENTIFICATION

Name: PAUL NELSON      Number: 25-29HZ

Provide the location description and the latitude and longitude of a single point near the center of the Working Pad Surface as a reference for this Location.

QuarterQuarter: NWSE    Section: 29    Township: 5N    Range: 67W    Meridian: 6    Ground Elevation: 4786

Latitude: 40.368439      Longitude: -104.915654

GPS Quality Value: 1.9      Type of GPS Quality Value: PDOP      Date of Measurement: 07/14/2021



Did a pre-application Formal Consultation Process occur with the Relevant Local Government per Rule 301.f.(3)? Yes

Date of local government consultation: 07/28/2021

Did a pre-application Formal Consultation Process occur with the Federal land manager per Rule 301.f.(3)? No

Date of federal consultation: \_\_\_\_\_

Was an ALA that satisfies Rule 304.b.(2).C (or substantially equivalent information per Rule 304.e) developed during a federal or local government permit application process? If yes, attach the ALA to the Form 2A. No

## ALA APPLICABILITY AND CRITERIA

Complete this section for any pre-application consultation related to this proposed Oil and Gas Location that occurred prior to the submission of this Form 2A. If a pre-application Formal Consultation Process occurred, attach a Consultation Summary.

Does the proposed Oil and Gas Location meet any of the criteria listed in Rule 304.b.(2)B? Yes

If YES, indicate by checking the box for every Rule 304.b.(2).B criterion met by this proposed Location, and attach an ALA. See Rule 304.b.(2).B.i-x for full text of criteria.

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> i. WPS < 2,000 feet from RBU/HOBU                                   | <input type="checkbox"/> vi.aa. WPS within a surface water supply area                                  |
| <input type="checkbox"/> ii. WPS < 2,000 feet from School/Child Care Center                             | <input type="checkbox"/> vi.bb. WPS < 2,640 feet from Type III or GUDI well                             |
| <input type="checkbox"/> iii. WPS < 1,500 feet from DOAA  | <input checked="" type="checkbox"/> vii. WPS within/immediately upgradient of wetland/riparian corridor |
| <input type="checkbox"/> iv. WPS < 2,000 feet from jurisdictional boundary and PLG objects/requests ALA | <input checked="" type="checkbox"/> viii. WPS within HPH and CPW did not waive                          |
| <input checked="" type="checkbox"/> v. WPS within a Floodplain  | <input type="checkbox"/> ix. Operator using Surface bond  |
|   | <input type="checkbox"/> x. WPS < 2,000 feet from RBU/HOBU/School within a DIC                          |

Is the proposed Oil and Gas Location within the exterior boundaries of the Southern Ute Indian Reservation, and the Tribe objects to the Location or requests an ALA? If YES, attach an ALA to the Form 2A. No

Operator requests the Director waive the ALA requirement per Rule 304.b.(2).A.i:

Provide an explanation for the waiver request, and attach supporting information (if necessary).

## ALTERNATIVE LOCATIONS DASHBOARD

List every alternative location reviewed and included in the ALA. Provide a latitude and longitude for the approximate center of the alternative location, all Rule 304.b.(2).B Criteria met, if a variance would be required to permit the location, and a brief comment on the key points of the alternative location.

304.b.(2).B.i-x Criteria Met:

#	latitude	longitude	i	ii	iii	iv	v	vi	vii	viii	ix	x	Variance Required?	Comments
1	40.367642	-104.881727	x						x					Within 2,000' of 18 RBUs Upgradient from a mapped wetland dedicated to use as a trail no development allowed upgradient from fresh emergent wetlands
2	40.364921	-104.905993	x						x	x				Within 2,000' of 4 RBUS within HPH - Mule Deer Severe Winter Range Would require 2x the number of wells and increased pads and surface impacts upgradient from fresh emergent wetlands
3	40.374916	-104.893425	x						x					Within 2,000' of 5 RBUS within a center pivot Would require 2x the number of wells and increased pads and surface impacts upgradient from fresh emergent wetlands
4	40.357751	-104.920137	x						x					Within 312' of surface owners home who discourages development at this location. upgradient from fresh emergent wetlands
5	40.358696	-104.891762	x							x				AL6: Within 1/2 mile of an active Bald Eagle Nest 4 RBUs within 2000' Would require 2x the number of wells and increased pads and surface impacts
6	40.374761	-104.871349	x											AL7: 4 RBUs within 2000' - nearest 504' Under USR for an airstrip with Weld County Would require additional surface locations to develop the same amount of minerals

## SURFACE & MINERAL OWNERSHIP

Surface Owner Info:

Name: NELSON FAMILY LLC

Phone: 970-397-9357

Address: 7831 COUNTY ROAD 52

Fax: NA

Address: \_\_\_\_\_

Email: earltreat@gmail.com

City: MILLIKEN State: CO Zip: 80543-9615

Surface Owner at this Oil and Gas Location:  Fee  State  Federal  Indian

Check only one:

- The Operator/Applicant is the surface owner.
- The Operator has a signed Surface Use Agreement for this Location – attach SUA.
- All operations on this Oil & Gas Location will develop the minerals beneath the Location, and the surface owner owns the minerals beneath this Location and is committed to an oil and gas lease – attach lease map or provide lease description.
- All operations on this Oil & Gas Location will develop the minerals beneath the Location, and the Operator intends to use a surface bond per Rule 703 to secure access to this Location – attach lease map or provide lease description.

Surface Owner protection Financial Assurance type: N/A

Surety ID Number: \_\_\_\_\_

Mineral Owner beneath this Oil and Gas Location:  Fee  State  Federal  Indian

Minerals beneath this Oil and Gas Location will be developed from or produced to this Oil and Gas Location: No

Lease description if necessary: \_\_\_\_\_

### SITE EQUIPMENT LIST

Indicate the number and type of major equipment components planned for use on this Oil and Gas Location:

Wells	<u>17</u>	Oil Tanks	<u>0</u>	Condensate Tanks	<u>2</u>	Water Tanks	<u>6</u>	Buried Produced Water Vaults	<u>0</u>
Drilling Pits	<u>0</u>	Production Pits	<u>0</u>	Special Purpose Pits	<u>0</u>	Multi-Well Pits	<u>0</u>	Modular Large Volume Tank	<u>0</u>
Pump Jacks	<u>17</u>	Separators	<u>14</u>	Injection Pumps	<u>0</u>	Heater-Treaters	<u>0</u>	Gas Compressors	<u>0</u>
Gas or Diesel Motors	<u>0</u>	Electric Motors	<u>0</u>	Electric Generators	<u>0</u>	Fuel Tanks	<u>0</u>	LACT Unit	<u>2</u>
Dehydrator Units	<u>0</u>	Vapor Recovery Unit	<u>0</u>	VOC Combustor	<u>2</u>	Flare	<u>0</u>	Enclosed Combustion Devices	<u>0</u>
Meter/Sales Building	<u>3</u>	Pigging Station	<u>0</u>	Vapor Recovery Towers	<u>0</u>				

### OTHER PERMANENT EQUIPMENT

Permanent Equipment Type	Number
COMM TOWERS	2
E HOUSE	2
CHEMICAL TOTE	3
AIR COMPRESSORS	3

### OTHER TEMPORARY EQUIPMENT

Temporary Equipment Type	Number
ENCLOSED COMBUSTION DEVICE	7
ENCLOSED COMBUSTION DEVICE (RIG)	1
WATER TANKS (RIG)	2
PROPANE TANK	1
PURGE FLARE	3
WATER TANKS	26
ELECTRIC GENERATORS	2

## GAS GATHERING COMMITMENT

Operator commits to connecting to a gathering system by the Commencement of Production Operations? Yes

If the answer is NO, a Gas Capture Plan consistent with the requirements of Rule 903.e MUST be attached on the Plans tab.

## FLOWLINE DESCRIPTION

Per Rule 304.b.(6), provide a description of all onsite and off-location oil, gas, and/or water flowlines.

Oil, gas and water pipelines will be used at this location. Water for completions operations will be brought to the location through temporary water lines using KMOG's Water on Demand system. The oil and gas pipelines will be constructed by a 3rd party midstream company. Flowlines will flow to the production facility location. During production, flow direction in the flowlines is from the wellhead to the production facility. The outside diameter of flowlines is typically 2"-3". Flowlines will be constructed from carbon steel pipe, buried, and will equal the distance between the well heads and the production facility.

## CULTURAL DISTANCE AND DIRECTION

Provide the distance and direction to the nearest cultural feature as measured from the edge of the Working Pad Surface.

	Distance	Direction	Rule 604.b Conditions Satisfied (check all that apply):			Details of Condition(s)	604.b. (4)
			604.b. (1)	604.b. (2)	604.b. (3)		
Building:	31 Feet	N					
Residential Building Unit (RBU):	938 Feet	E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
High Occupancy Building Unit(HOBU)	5280 Feet	S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Designated Outside Activity Area:	5280 Feet	SW					
Public Road:	44 Feet	W					
Above Ground Utility:	89 Feet	W					
Railroad:	87 Feet	SW					
Property Line:	36 Feet	SW					
School Facility:	5280 Feet	S					
Child Care Center:	5280 Feet	S					
Disproportionately Impacted (DI) Community:	5280 Feet	NW					
RBU, HOBU, or School Facility within a DI Community.	5280 Feet	NW	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>

## RULE 604.a.(2). EXCEPTION LOCATION REQUEST

Operator requests an Exception Location Request from Rule 604.a.(2) [well is less than 150 feet from a property line]. Exception Location Request Letter and Waiver signed by offset Surface Owner(s) must be attached.

## CULTURAL FEATURE INFORMATION REQUIRED BY RULE 304.b.(3).B.

Provide the number of each Cultural feature identified within the following distances, as measured from the Working Pad Surface:

	0-500 feet	501-1,000 feet	1,001-2,000 feet
Building Units	<u>0</u>	<u>1</u>	<u>7</u>
Residential Building Units	<u>0</u>	<u>1</u>	<u>7</u>
High Occupancy Building Units	<u>0</u>	<u>0</u>	<u>0</u>
School Properties	<u>0</u>	<u>0</u>	<u>0</u>
School Facilities	<u>0</u>	<u>0</u>	<u>0</u>
Designated Outside Activity Areas	<u>0</u>	<u>0</u>	<u>0</u>

## CONSTRUCTION

Size of disturbed area during construction in acres: 16.30

Size of location after interim reclamation in acres: 5.75

Estimated post-construction ground elevation: 4785

## DRILLING PROGRAM

Will a closed-loop drilling system be used? Yes

Is H2S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No If YES, attach H2S Drilling Operations Plan.

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

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE

Drilling Fluids Disposal Method: Commercial Disposal

Cutting Disposal: OFFSITE

Cuttings Disposal Method: Commercial Disposal

Other Disposal Description:

PLEASE SEE ATTACHED WASTE MANAGEMENT PLAN

Beneficial reuse or land application plan submitted? Yes

Reuse Facility ID: \_\_\_\_\_ or Document Number: \_\_\_\_\_

Centralized E&P Waste Management Facility ID, if applicable: 149021

## CURRENT LAND USE

Current Land Use: check all that apply per Rule 304.b.(9).

Crop Land:  Irrigated  Non-Irrigated  Conservation Resource Program (CRP)

Non-Crop Land:  Rangeland  Forestry  Recreation  Other

Subdivided:  Industrial  Commercial  Residential

Describe the current land use:

AGRICULTURE

Describe the Relevant Local Government's land use or zoning designation:

AGRICULTURE

Describe any applicable Federal land use designation:

NA

## FINAL LAND USE

Final Land Use: check all that apply per Rule 304.b.(9).

Crop Land:  Irrigated     Non-Irrigated     Conservation Resource Program (CRP)  
Non-Crop Land:  Rangeland     Forestry     Recreation     Other  
Subdivided:  Industrial     Commercial     Residential

## REFERENCE AREA INFORMATION

If Final Land Use includes Non-Crop Land (as checked above), the following information is required:

Describe landowner's designated final land use(s):

Reference Area Latitude: \_\_\_\_\_ Reference Area Latitude: \_\_\_\_\_

Provide a list of plant communities and dominant vegetation found in the Reference Area.

< No row provided >

Noxious weeds present: \_\_\_\_\_

## SOILS

List all soil map units that occur within the maximum extent of the proposed Oil and Gas Location. Attach the National Resource Conservation Service (NRCS) report showing the "Map Unit Description" listing the typical vertical soil profile(s). This data is to be used when segregating topsoil.

The required information can be obtained from the NRCS website at <https://www.nrcs.usda.gov/wps/portal/nrcs/surveylist/soils/survey/state/> or from the COGCC website GIS Online map page. Instructions are provided within the COGCC website help section.

NRCS Map Unit Name: 31-Kim loam, 0-1 percent slopes

NRCS Map Unit Name: 54-Paoli loam, 0 to 1 percent slopes

NRCS Map Unit Name: 32—Kim loam, 1 to 3 percent slopes

## GROUNDWATER AND WATER WELL INFORMATION

Provide the distance and direction, as measured from the Working Pad Surface, to the nearest:

water well: 187 Feet W

Spring or Seep: 5280 Feet N

Estimated depth to shallowest groundwater that can be encountered at this Oil and Gas Location: 6 Feet

Basis for estimated depth to and description of shallowest groundwater occurrence:

Groundwater monitoring holes were drilled to a depth of 8' at various locations within and around the proposed oil and gas location. The shallowest depth groundwater was encountered was 6'

## SURFACE WATER AND WETLANDS

Provide the distance and direction to the nearest downgradient surface Waters of the State, as defined 23 Feet W

in the 100-Series Rules, measured from the Working Pad Surface:

If less than 2,640 feet, is the Waters of the State identified above within 15 stream miles upstream of a Public Water

System intake? No

Provide the distance and direction to the nearest downgradient wetland, measured from the Working

Pad Surface: 67 Feet W

Provide a description of the nearest downgradient surface Waters of the State:

Cottonwood-willow riparian forest along the Big Thompson River is dominated by plains cottonwood (*Populus deltoides*) with scattered willows (*Salix* sp.) on banks. The Big Thompson River is a perennial stream with a streambed width of approximately 25-35 feet.

If the proposed Oil and Gas Location is within a Rule 411.a Surface Water Supply Area buffer zone, select the buffer zone type: \_\_\_\_\_

Public Water System Administrator - Contact Name \_\_\_\_\_ Email \_\_\_\_\_

If the proposed Oil and Gas Location is within a Rule 411.b GUDI/Type III buffer zone, select the buffer zone type: \_\_\_\_\_

Public Water System Administrator - Contact Name \_\_\_\_\_ Email \_\_\_\_\_

Is a U.S. Army Corps of Engineers Section 404 permit required for the proposed Oil and Gas Location, access road, or associated pipeline corridor? No

If a U.S. Army Corps of Engineers Section 404 permit is required, provide the permit status, and permit number if available:

\_\_\_\_\_

Is the Location within a Floodplain? Yes Floodplain Data Sources Reviewed (check all that apply):

Federal (FEMA)  State  County  Local

Other \_\_\_\_\_

Does this proposed Oil and Gas Location lie within a Sensitive Area for water resources, as defined in the 100-Series Rules? Yes

## CONSULTATION, WAIVERS, AND EXCEPTIONS

When Rule 309.e.(2) Consultation must occur, check all that apply:

- This location is included in a Wildlife Mitigation Plan
- This Oil and Gas Location or associated new access road, utility, or pipeline corridor falls within federally designated critical habitat or an area with a known occurrence for a federal or Colorado threatened or endangered species. Provide description in Comments section of Submit tab.
- This Oil and Gas Location or associated new access road, utility, or pipeline corridor falls within an existing conservation easement established wholly or partly for wildlife habitat. Provide description in Comments section of Submit tab.

When Rule 309.e.(3) Consultation is not required, check all that apply:

- This Oil and Gas Location has been included in a previously approved, applicable Wildlife Protection Plan.
- This Oil and Gas Location has been included in a previously approved, applicable Wildlife Mitigation Plan.
- This Oil and Gas Location has been included in a previously approved, applicable conservation plan.

Pre-application Consultation:

- A pre-application consultation with CPW, regarding this Oil and Gas Location, occurred 03/31/2021 on:

**CPW Waivers and Exceptions (check all that apply and attach all CPW waivers to this Form 2A):**

- The applicant has obtained a Rule 304.b.(2).B.viii CPW waiver for the requirement to complete an ALA.
- The applicant has obtained a Rule 309.e.(2).G CPW waiver and consultation is not required.
-

The applicant has obtained a Rule 309.e.(5).D.i CPW waiver and is requesting an exception from Rule 1202.c.(1).R.

The applicant has obtained a Rule 309.e.(5).D.ii CPW waiver and is requesting an exception from Rule 1202.c.(1).S.

The applicant has obtained a Rule 309.e.(5).D.iii CPW waiver of Rule 1202.c.(1).T.

The applicant has obtained a Rule 309.e.(5).D.iv CPW waiver and is requesting an exception from Rule 1202.c.(1) in accordance with an approved CAP.

The applicant has obtained a Rule 1202.a CPW waiver.

The applicant has obtained a Rule 1202.b CPW waiver.

In accordance with Rule 1203.a.(3), the applicant requests an exception from compensatory mitigation Rule(s): \_\_\_\_\_

### HIGH PRIORITY HABITAT AND COMPENSATORY MITIGATION

This Oil and Gas Location, associated access roads, utility, or Pipeline corridor falls wholly or partially within the following High Priority Habitats (Note: dropdown options are abbreviated - see Rule 1202 for full rule text):

High Priority Habitat (list all that apply)	Oil and Gas Location	Access Road	Utility or Pipeline Corridor
1202.d.(3) - Mule deer migration & winter	x	x	x

The following questions are for Oil and Gas Locations that cause the density to exceed one Oil and Gas Location per square mile in Rule 1202.d High Priority Habitat:

Direct Impacts:

Is Compensatory Mitigation required per Rule 1203.a for this Oil and Gas Location? Yes

Is a Compensatory Mitigation Plan proposed to address direct impacts for this Oil and Gas Location? No

Have all Compensatory Mitigation Plans been approved for this Location? No

If not, what is the current status of each Plan?

NA

Is a Compensatory Mitigation Fee proposed for this Oil and Gas Location? Yes

Direct impact habitat mitigation fee amount: \$ 38359

Indirect Impacts:

Is Compensatory Mitigation required per Rule 1203.d for this Oil and Gas Location? Yes

Is a Compensatory Mitigation Plan proposed to address indirect impacts for this Oil and Gas Location? No

Have all Compensatory Mitigation Plans been approved for this Location? No

If not, what is the current status of each Plan?

NA

Is a Compensatory Mitigation Fee proposed for this Oil and Gas Location? Yes

Indirect impact habitat mitigation fee amount: \$ 19224

### Operator Proposed Wildlife BMPs

No	Target Species	BMP Type	Description
1	MULE DEER & ELK	Wildlife - Minimization	If new oil and gas operations must occur within CPW-mapped mule deer and elk severe winter range and/or winter concentration areas, the operator agrees to conduct new oil and gas operations outside the time period from December 1 through April 30.
2	MULE DEER & ELK	Wildlife - Avoidance	The operator agrees to reclaim mule deer and elk habitats with CPW-identified native shrubs, grasses, and forbs appropriate to the ecological site disturbed.
3	BALD EAGLE	Wildlife - Avoidance	The operator will preclude new oil and gas operations within 0.25 miles of any CPW-mapped active bald eagle nest site.
4	BALD EAGLE	Wildlife - Avoidance	The operator will preclude new oil and gas operations within 0.25 miles of any CPW-mapped active bald eagle nest site.
5	BALD EAGLE	Wildlife - Minimization	Prior to commencement of oil and gas operations, the operator agrees to survey suitable nesting habitat within 0.5 mile of the proposed activity for active bald eagle nests.
6	BALD EAGLE	Wildlife - Minimization	The operator and its contractors agree to restrict well site visitations to no more than once per day, and to portions of the day between 10:00 a.m. and 2:00 p.m. between November 15 to March 15 within 0.5 miles of a CPW-mapped bald eagle winter night roost.
7	AQUATIC SPECIES/AMPHIBIANS	Wildlife - Minimization	"The operator agrees to, when working in waters of the State of Colorado, disinfect heavy equipment, hand tools, boots and any other equipment that was previously used in a river, stream, lake, pond, or wetland prior to moving the equipment to another water body. The disinfection practice should follow this outline:
8	AQUATIC SPECIES/AMPHIBIANS	Wildlife - Minimization	The operator agrees to preclude the use of low water crossings.
9	AQUATIC SPECIES/AMPHIBIANS	Wildlife - Minimization	The operator agrees to avoid changes to water quality and quantity.
10	AQUATIC SPECIES/AMPHIBIANS	Wildlife - Minimization	The operator agrees to, when working in waters of the State of Colorado, drain all water and remove all visible mud, plants, and organisms from boats, trailers and equipment followed by a thorough scrubbing with water (140 degrees Fahrenheit); complete drying; and then disinfection using the Green Solutions High Dilution Disinfectant 256.
11	AQUATIC SPECIES/AMPHIBIANS	Wildlife - Minimization	Contain Flowback and Stimulation Fluids in Tanks that are placed on a Working Pad Surface in an area with downgradient perimeter berming
12	AQUATIC SPECIES/AMPHIBIANS	Wildlife - Minimization	Construct lined berms or other lined containment devices pursuant to Rule 603.o around any new crude oil, condensate, and produced water storage Tanks that are installed after January 15, 2021
13	AQUATIC SPECIES/AMPHIBIANS	Wildlife - Minimization	Inspect the Oil and Location on a daily basis, unless the approved Form 2A provides for different inspection frequency or alternative method of compliance. CPW has approved the use of our remote monitoring capabilities in lieu of daily inspections during the production phase. KMOG will inspect the location weekly during the production phase of the location.
14	AQUATIC SPECIES/AMPHIBIANS	Wildlife - Minimization	Maintain adequate Spill response equipment at the Oil and Gas Location during drilling and completion operations
15	AQUATIC SPECIES/AMPHIBIANS	Wildlife - Minimization	Not construct or utilize any Pits, except that Operators may continue to utilize existing Pits that were properly permitted, constructed, operated, and maintained in compliance prior to January 15, 2021

## AIR QUALITY MONITORING PROGRAM

Will the Operator install and administer an air quality monitoring program at this Location? Yes

### Operator Proposed BMPs

No	BMP Target	CDPHE Recommendation	COGCC Action
1	Air		
	Description	Pipelines: Operator will have adequate and committed pipeline take away capacity for all produced gas and oil	
	CDPHE Comment		
2	Air		
	Description	Operator will implement ambient air quality monitoring on site	
	CDPHE Comment		
3	Water		
	Description	Dust suppression: Operator will not use produced water or other process fluids for dust suppression	
	CDPHE Comment		
4	Water		
	Description	Stormwater inspections: Operator will conduct stormwater inspections immediately after storm event	
	CDPHE Comment		
5	Waste		
	Description	Operator will properly characterize and dispose of all waste (i.e. the specific landfill/waste disposal location allows for acceptance of the waste stream)	
	CDPHE Comment		
6	Air		
	Description	Operator will properly maintain vehicles and equipment	
	CDPHE Comment		
7	Air		
	Description	Operator will use lease automated custody transfer (LACT) system to reduce the need for truck loadout	
	CDPHE Comment		
8	Air		
	Description	Operator will use non-emitting pneumatic controllers	
	CDPHE Comment		

## PLANS

Total Plans Uploaded: 17

- (1) Emergency Spill Response Program consistent with the requirements of Rules 411.a.(4).B, 411.b.(5).B, & 602.j
- (2) Noise Mitigation Plan consistent with the requirements of Rule 423.a
- (3) Light Mitigation Plan consistent with the requirements of Rule 424.a
- (4) Odor Mitigation Plan consistent with the requirements of Rule 426.a
- (5) Dust Mitigation Plan consistent with the requirements of Rule 427.a
- (6) Transportation Plan
- (7) Operations Safety Management Program consistent with the requirements of Rule 602.d
- (8) Emergency Response Plan consistent with the requirements of Rule 602.j
- (9) Flood Shut-In Plan consistent with the requirements of Rule 421.b.(1)
- (10) Hydrogen Sulfide Drilling Operations Plan consistent with the requirements of Rule 612.d
- (11) Waste Management Plan consistent with the requirements of Rule 905.a.(4)

- (12) Gas Capture Plan consistent with the requirements of Rule 903.e
- (13) Fluid Leak Detection Plan
- (14) Topsoil Protection Plan consistent with the requirements of Rule 1002.c
- (15) Stormwater Management Plan consistent with the requirements of Rule 1002.f
- (16) Interim Reclamation Plan consistent with the requirements of Rule 1003
- (17) Wildlife Plan consistent with the requirements of Rule 1201
- (18) Water Plan
- (19) Cumulative Impacts Plan
- (20) Community Outreach Plan
- (21) Geologic Hazard Plan

## VARIANCE REQUESTS

Check all that apply:

- This proposed Oil and Gas Location requires the approval of a Rule 502.a variance from COGCC Rule or Commission  
Order number: \_\_\_\_\_

ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).

## RULE 304.d LESSER IMPACT AREA EXEMPTION REQUESTS

Check the boxes below for all Exemptions being requested. Lesser Impact Area Exemption Request must be attached, and will include all requested exemptions.

- |  |  |
|--|--|
| <input type="checkbox"/> 304.b.(1). Local Government Siting Information      | <input type="checkbox"/> 304.c.(1). Emergency Spill Response Program           |
| <input type="checkbox"/> 304.b.(2). Alternative Location Analysis            | <input type="checkbox"/> 304.c.(2). Noise Mitigation Plan                      |
| <input type="checkbox"/> 304.b.(3). Cultural Distances                       | <input type="checkbox"/> 304.c.(3). Light Mitigation Plan                      |
| <input type="checkbox"/> 304.b.(4). Location Pictures                        | <input type="checkbox"/> 304.c.(4). Odor Mitigation Plan                       |
| <input type="checkbox"/> 304.b.(5). Site Equipment List                      | <input type="checkbox"/> 304.c.(5). Dust Mitigation Plan                       |
| <input type="checkbox"/> 304.b.(6). Flowline Descriptions                    | <input type="checkbox"/> 304.c.(6). Transportation Plan                        |
| <input type="checkbox"/> 304.b.(7). Drawings                                 | <input type="checkbox"/> 304.c.(7). Operations Safety Management Program       |
| <input type="checkbox"/> 304.b.(8). Geographic Information System (GIS) Data | <input type="checkbox"/> 304.c.(8). Emergency Response Plan                    |
| <input type="checkbox"/> 304.b.(9). Land Use Description                     | <input type="checkbox"/> 304.c.(9). Flood Shut-In Plan                         |
| <input type="checkbox"/> 304.b.(10). NRCS Map Unit Description               | <input type="checkbox"/> 304.c.(10). Hydrogen Sulfide Drilling Operations Plan |
| <input type="checkbox"/> 304.b.(11). Best Management Practices               | <input type="checkbox"/> 304.c.(11). Waste Management Plan                     |
| <input type="checkbox"/> 304.b.(12). Surface Owner Information               | <input type="checkbox"/> 304.c.(12). Gas Capture Plan                          |
| <input type="checkbox"/> 304.b.(13). Proximate Local Government              | <input type="checkbox"/> 304.c.(13). Fluid Leak Detection Plan                 |
| <input type="checkbox"/> 304.b.(14). Wetlands                                | <input type="checkbox"/> 304.c.(14). Topsoil Protection Plan                   |
| <input type="checkbox"/> 304.b.(15). Schools and Child Care Centers          | <input type="checkbox"/> 304.c.(15). Stormwater Management Plan                |
|  | <input type="checkbox"/> 304.c.(16). Interim Reclamation Plan                  |
|  | <input type="checkbox"/> 304.c.(17). Wildlife Plan                             |
|  | <input type="checkbox"/> 304.c.(18). Water Plan                                |
|  | <input type="checkbox"/> 304.c.(19). Cumulative Impacts Plan                   |
|  | <input type="checkbox"/> 304.c.(20). Community Outreach Plan                   |
|  | <input checked="" type="checkbox"/> 304.c.(21). Geologic Hazard Plan           |

## OPERATOR COMMENTS AND SUBMITTAL

Comments

- Please direct correspondence regarding this location to Rachel Friedman rachel\_friedman@oxy.com or 720.929.6564
- A 1041 WOGLA will be submitted in association with this location
- Weld County Pre-Application meeting summary attached as "Other"
- The alternative locations for the proposed Paul Nelson 25-29HZ pad are listed as #1, #2, #3, #4, #6 and #7 in the ALA narrative, maps (attachment Other) and template
- Brandon Marette with CPW has waived daily inspections associated with this location during the production phase see attachment email labeled "Other"
- The applicant has requested a Rule 309.e.(5).D.i CPW waiver and is requesting an exception from daily inspections during production per Rule 1202.c.(1).R. The Operator will use remote monitoring in lieu of daily inspections during the production phase of the location and commits to weekly in person inspections of the location
- The compensatory mitigation fee for Rule 1203.d is still being determined by CPW they have provided a range of \$14,418.63 to \$19,224.84
- The attached EAP will be submitted to the Front Range Fire Rescue. Once the plan is approved a signed copy will be sent to the COGCC OGLA staff
- KMOG's general Air Monitoring Plan has been approved by the CDPHE and is attached to the 2B. A site-specific Air Monitoring Plan for this location will be submitted to the COGCC and CDPHE for approval of air monitor locations prior to operations
- Temporary above ground polyethylene water pipelines (diameter 10" - 12" with a 60 BPM capacity) will deliver water to location operations from larger trunk lines for completions operations
- Flowlines will flow to the production facility location. During production, flow direction in the flow lines is from the wellhead to the production facility. The size of flowlines is typically 2". Flow lines will be constructed from steel pipe, buried, and will equal the distance between the well heads and the production facility
- Gas custody transfer occurs at the custody transfer meter located on the proposed production facility location. Oil custody transfer occurs at the LACT Unit located on the proposed production facility location. Two 500 barrel skid-mounted tanks will be temporarily placed onsite for use of the pre-spud rig only. One tank will store water and the other will store water-based mud. A temporary ECD may be utilized during drilling
- Gas lift lines are also occasionally installed (one per well) from the well head to the production facility. During operation flow direction in the gas lift lines will be from the production facility to the well head. The size of the gas lift lines is typically 2". Gas lift lines will be constructed from steel pipe, buried, and will equal the distance between the well heads and the tank battery
- Compressed air supply lines will also be installed from the well head to the production facility. During operation flow direction in the supply lines will be from the production facility to the well head. The size of the supply lines is typically 1". Supply lines will be constructed from steel pipe, buried, and will equal the distance between the well heads and the production facility
- 26 temporary 500 BBL skid-mounted frac tanks will be utilized during flowback and initially for produced water. 4 temporary ECDs and temporary tanks will be on location for 9 - 12 months and will be removed as water production declines. A temporary generator may be placed on location if needed and would be in place until electric power is available. Temporary purge flares may be placed on location for up to 60 days. A temporary 500-gallon propane tank will be used on location to provide fuel gas during facility equipment startup
- Gas custody transfer occurs at the custody transfer meter on the proposed production facility location. Oil custody transfer occurs at the LACT Unit on the proposed production facility location
- Two temp 500 BBL tanks for pre-spud rig

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

Signed: \_\_\_\_\_ Date: 10/01/2021 Email: djregulatory@oxy.com

Print Name: Rachel Friedman Title: Geologist Staff Sr.

Based on the information provided herein, this Oil and Gas Location Assessment complies with COGCC Rules, applicable orders, and SB 19-181 and is hereby approved.

COGCC Approved: \_\_\_\_\_ Director of COGCC Date: \_\_\_\_\_

### 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>COA Type</u>	<u>Description</u>

### Best Management Practices

No BMP/COA Type	Description
1 Planning	Access Road: KMOG will create a short road off of CR 15.5 to access the location for drilling, completions, and production operations, including maintenance equipment. The road will be upgraded as needed and maintained to accommodate for emergency vehicle access.
2 Planning	KMOG held Surface Impact Planning (SIP) meetings for this location. These meetings are attended by KMOG internal teams. This is a multi-disciplinary team including construction, operations, facilities, EHS, stakeholder relations, regulatory, surface land and mitigation. The team reviews potential impacts to the surrounding residents, identify and plan for necessary mitigations, and identify BMPs that should be included in the pad development moving forward. The team reviews noise, odor, lights, traffic, haul routes, rig orientation and visual mitigation and any input we have received from surrounding communities either from response line calls or community meetings, relative to our operations. The purpose of the meeting is to proactively identify potential concerns, exhaust possible options and provide best in class solutions in order to have compatible operations.
3 Traffic control	KMOG currently plans to use the water-on-demand system on this location which is a network of over 180 miles of underground pipelines that stretches the length of the 20-mile by 30-mile field to source and transport water to completions crews. This system eliminates more than 2,000 truck trips per day, also reducing associated concerns of traffic, noise, emissions and dust.
4 Traffic control	The operator will obtain access permits from Weld County and will implement traffic control plans prior to the commencement of operations.
5 General Housekeeping	Loadlines: All loadlines shall be bullplugged or capped.
6 General Housekeeping	Removal of Surface Trash: A commercial size trash bin for removing debris will be located on site. This bin will be for use by all parties affiliated with the operation. Upon completion of operations, the commercial trash bin will be removed from the location.
7 Material Handling and Spill Prevention	Pit Level Indicators: All storage tanks used for active drilling operations (used in lieu of pits) contain pit level monitors with Electronic Drilling Recorders (EDR). KMOG uses EDRs with pit level monitor(s) and alarm(s) for production rigs. Basic level gauges are used on tanks utilized for the surface rig.
8 Dust control	Dust: KMOG will proactively deploy fresh water to suppress dust along access road to well pad, and facility during all phases of pre-production operations. Speed limits will be reduced to 10 mph on access road and 5 mph once vehicles reach location.
9 Construction	Fencing Requirements: The completed well sites will be surrounded with a fence and gate with adequate lock to restrict access to authorized personnel only. KMOG personnel will monitor the wellsites upon completion of the wells. Authorized representatives and/or KMOG personnel shall be on-site during drilling and completions operations.
10 Emissions mitigation	All seventeen of the wells are commingled into a bulk and test design. This reduces the total number of separators on location on a per well basis which in turn allows to have a smaller facility footprint. Reducing the total number of separators per well also reduces the total noise and emissions from the separator burners.
11 Emissions mitigation	Temporary ECD(s) will be utilized to mitigate releases of emissions from temporary produced water storage tanks for the duration which the tanks are on location and being used.

12	Drilling/Completion Operations	Green Completions: Test separators and associated flow lines, sand traps and emission control systems shall be installed on-site to accommodate green completions techniques. When commercial quantities of salable quality gas are achieved at each well, the gas shall be immediately directed to a sales line or shut in and conserved. If a sales line is unavailable or other conditions prevent placing the gas into a sales line, KMOG shall not produce the wells.
13	Drilling/Completion Operations	KMOG`s Integrated Operations Center is staffed 24-hours per day, seven days per week, 365 days per year providing real-time remote monitoring capabilities for all of KMOG`s wells. Employees in the Integrated Operations Center are able to shut in wells remotely and dispatch personnel to a location within 5-15 minutes.
14	Drilling/Completion Operations	Guy line anchors will not be used. Base Beams will be used to stabilize the rig and removed after drilling.
15	Final Reclamation	Identification of Plugged and Abandoned Wells: Once the wells have been plugged and abandoned, KMOG will identify the location of the wellbores with permanent monuments that will detail the well names, API number and location.
16	Underground Injection Control	Well Site Cleared: The wellsite will be cleared of all non-essential equipment within ninety (90) days after all wells associated with the pad have been plugged and abandoned.

Total: 16 comment(s)

### Attachment List

<u>Att Doc Num</u>	<u>Name</u>
402817187	SURFACE AGRMT/SURETY
402817234	LOCATION DRAWING
402817255	ALA DATASHEET
402817258	OIL AND GAS LOCATION GIS SHP
402817283	CULTURAL FEATURES MAP
402817293	DIRECTIONAL WELL PLAT
402817297	HYDROLOGY MAP
402817300	PRELIMINARY PROCESS FLOW DIAGRAMS
402821461	GEOLOGIC HAZARD MAP
402828414	CPW WAIVER
402870549	LESSER IMPACT AREA EXEMPTION REQUEST
402872154	CPW CONSULTATION
402882192	NRCS MAP UNIT DESC
402882273	ACCESS ROAD MAP
402882288	OTHER
402882337	LOCATION PICTURES
402882447	LAYOUT DRAWING
402887832	RELATED LOCATION AND FLOWLINE MAP
402890744	WILDLIFE HABITAT DRAWING
402890836	ALA NARRATIVE SUMMARY

Total Attach: 20 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	Finished initial "Completeness Review". Provided the operator with a spreadsheet that details issues identified and provides comments for making revisions and corrections to the attachments and plans. Form 2A #402770498 has been sent back to 'DRAFT'.	10/29/2021

Total: 1 comment(s)



**Public Comments**

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

