

Permitting Oil and Gas

The Form 2A and Form 2

May 1, 2018



COLORADO

**Oil & Gas Conservation
Commission**

Department of Natural Resources

Form 2A is required for an Oil & Gas Location:

- Construct a new location
- Modify an existing location

Form 2 is required for an Oil & Gas Well:

- Drill a new well
- Sidetrack an existing well
- Deepen an existing well
- Recomplete an existing well



Form 2A & 2 Workload

- ✧ Calendar Year 2017:
 - Form 2As - Received 618, Approved 491
 - Form 2s - Received 5933, Approved 3,909
- ✧ Each Form 2A and each Form 2 has nearly 300 data fields to review.
- ✧ Each Form 2A has at least 8 attachments
- ✧ Each Form 2 has at least 4 attachments

REVIEW PROCESS

- ✧ Completeness - Permitting and Oil & Gas Location Assessment (OGLA)
- ✧ Minimum 20 day public comment period
 - Extended by LGD or CPW/CDPHE Consultation
- ✧ Staff Review
 - Form 2A: OGLA & Permitting
 - Form 2: Engineering & Permitting
- ✧ OGLA Supervisor Review: Form 2A for Designated Setback Locations
- ✧ Final Permitting Review: Cross Check of Form 2A & 2
- ✧ DIRECTOR'S FINAL APPROVAL



Permitting Review - Form 2A

- ✧ Financial Assurance
- ✧ Right to Construct
 - Oil & Gas Lease
 - Surface Use Agreement
 - Surface Bond
- ✧ Lease and mineral ownership
- ✧ Cultural Distances for wells
- ✧ Consistency with Form 2s



Permitting Review - Form 2

- ✧ Financial Assurance
- ✧ Right to Construct
- ✧ Location Data & Deviated Drilling Plan
- ✧ Cultural Feature Distances
- ✧ Objective Formation & Spacing: Drilling & Spacing Unit Orders and GWA Wellbore Units
- ✧ Exception Location Requests & Waivers
- ✧ Consistency with Form 2A










Attachments

Accuracy

Compliance with rule requirements

Consistency with information on form

Typical Wattenberg Form 2:

Desc		Name	View	Delete
FORM 2 SUBMITTED		LF@4430273 401599150	View	
SURFACE AGRMT/SURETY		LF@4430274 401599867	View	<input type="checkbox"/>
STIMULATION SETBACK CONSENT		LF@4430275 401600542	View	<input type="checkbox"/>
OffsetWellEvaluations Data		LF@4430276 401601798	View	<input type="checkbox"/>
DIRECTIONAL DATA		LF@4430277 401601820	View	<input type="checkbox"/>
WELL LOCATION PLAT		LF@4430278 401601824	View	<input type="checkbox"/>
EXCEPTION LOC WAIVERS		LF@4430279 401601827	View	<input type="checkbox"/>
EXCEPTION LOC REQUEST		LF@4430280 401601829	View	<input type="checkbox"/>
DEVIATED DRILLING PLAN		LF@4430281 401601830	View	<input type="checkbox"/>
PROPOSED SPACING UNIT		LF@4430282 401602784	View	<input type="checkbox"/>



Operator BMPs

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 as-constructed gyro survey will be submitted to COGCC with the Form 5.

Staff Comments

ON HOLD: Requesting change to water well sampling to Rule 318A, remove the Open Hole Logging Exception request and BMP. Requesting a 30 Day Certification Letter and Proposed Spacing Unit Map of the 40 acres unit for each well and corrected distance to nearest well in the same formation.

Staff Conditions of Approval

- 1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU for the first well activity with a rig on the pad and provide 48 hour spud notice for each subsequent well drilled on the pad.
- 2) Comply with Rule 317.j and provide cement coverage from TD to a minimum of 200' above the Niobrara. Verify coverage with cement bond log.
- 3) Oil-based drilling fluid is to be used only after all aquifers are covered.

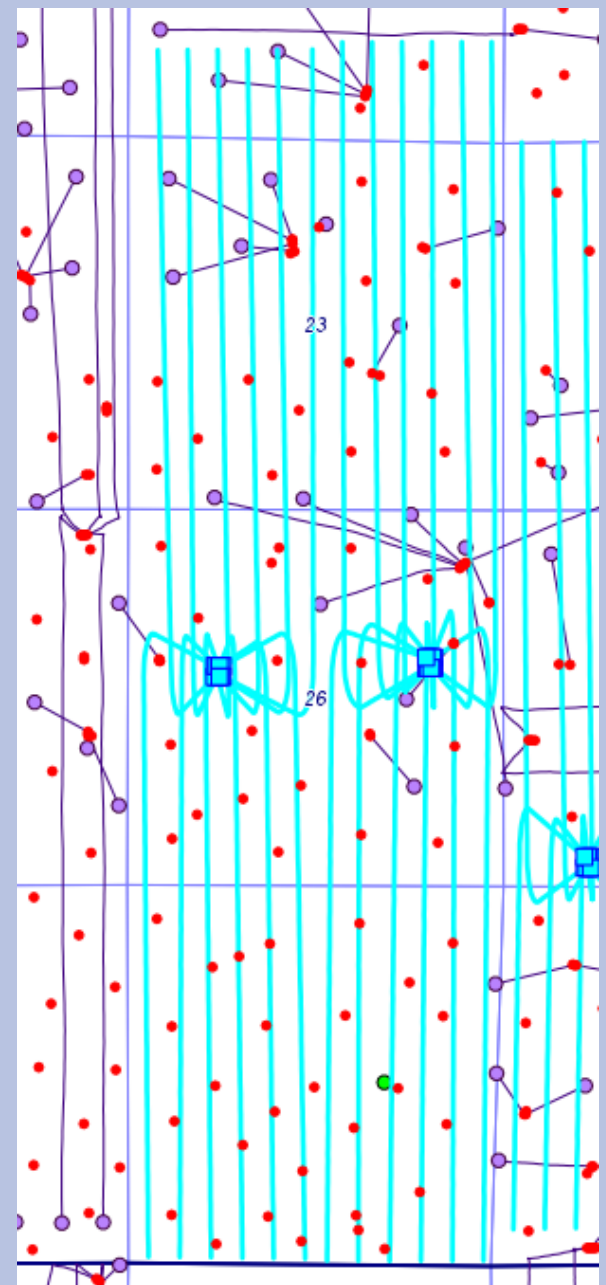
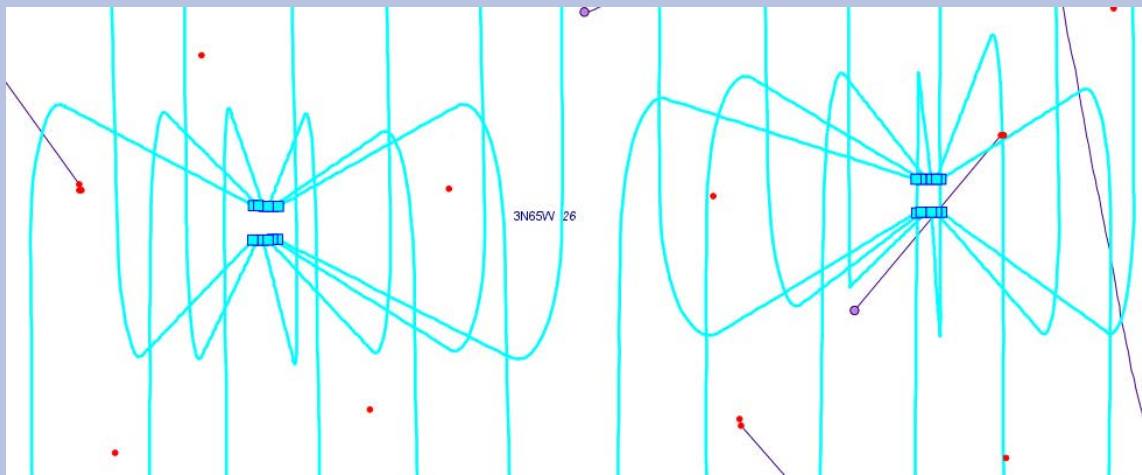
Engineering Review

- ✧ Surface casing check
- ✧ Offset well evaluation
- ✧ Casing and cementing design
- ✧ Distance to wells operated by another operator
- ✧ Safety considerations (H₂S, BOP)

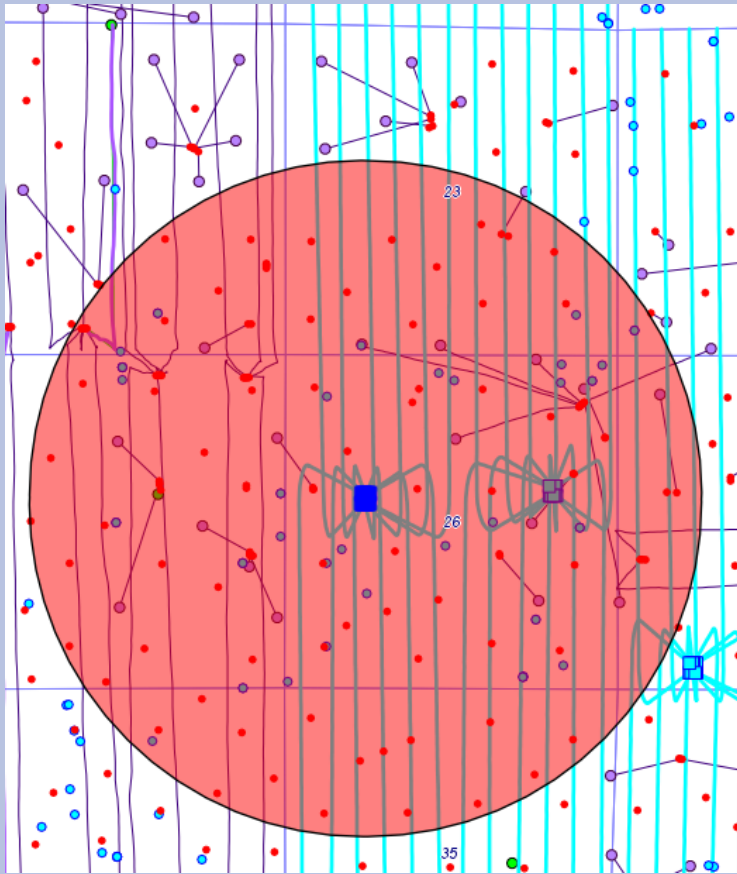
Engineering Example

✧ Two Well Pads

- Wells going North and South from each pad
- 24 Form 2s



Engineering - Surface Casing Check



Create a one mile buffer around the surface location of the permits. Review the water well data and oil & gas wells within one mile.

Bedrock Aquifer Evaluation Determination Tool

Denver Basin Aquifer - Specific Location Determination Tool

Applicant: Operator Name and Well Pad Name

Receipt No:

Evaluated By: DM

Location: NE 1/4 of SW 1/4 of Sec. 24, T.2N, R.64W. (1440 SSL, 2200 WSL)

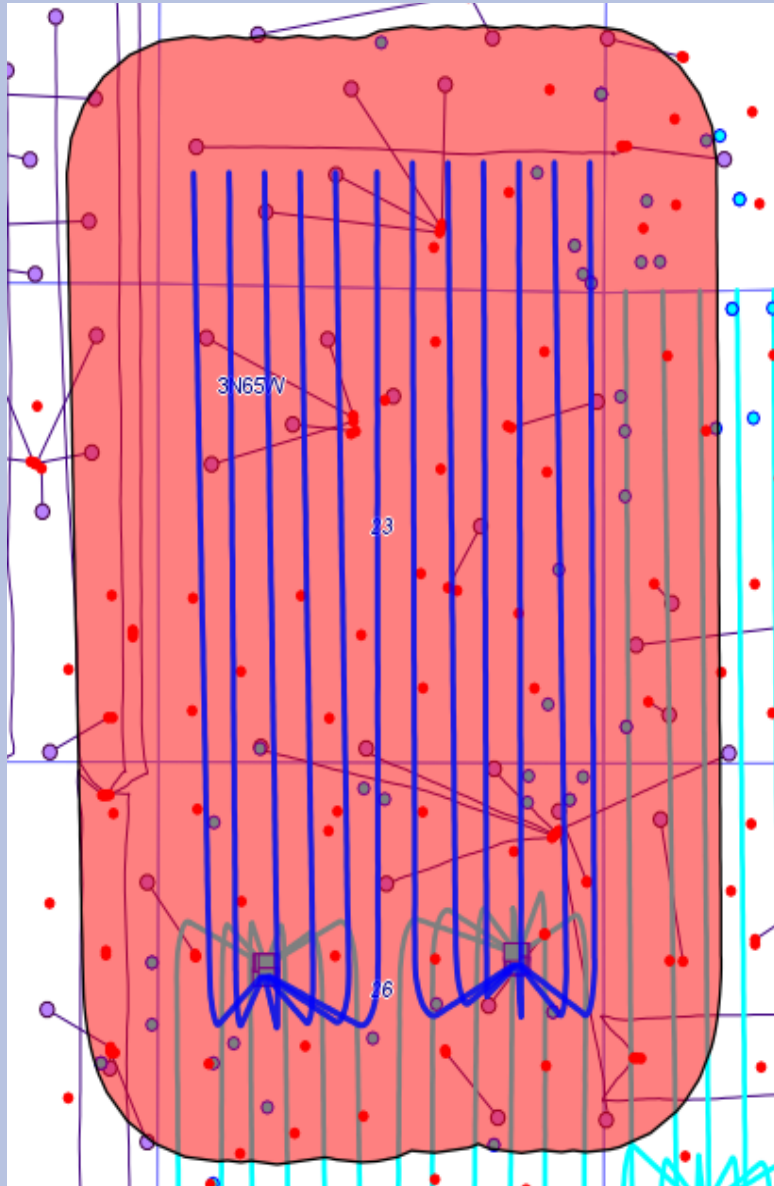
Basin Designation: Location is within the UNKNOWN Designated Ground Water Basin.

Ground Surface Elevation: 4923 Feet **Number of Acres:** 160

Aquifer	Elevation (ft)		Net Sand	DEPTH (ft)		ANNUAL APPROP. (A-F)
	<i>Bof</i>	<i>Top</i>		<i>Bof</i>	<i>Top</i>	
Upper Dawson	--	--	--	--	--	--
Lower Dawson	--	--	--	--	--	--
Denver	--	--	--	--	--	--
Upper Arapahoe	--	--	--	--	--	--
Lower Arapahoe	4756	4659	42.4	167	64	11.53
Laramie-Fox Hills	4073	4366	131.2	850	567	31.48

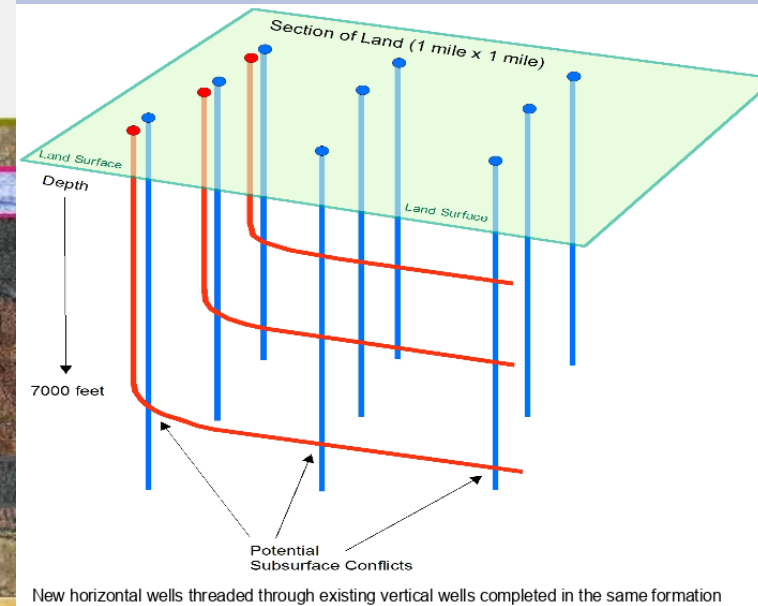
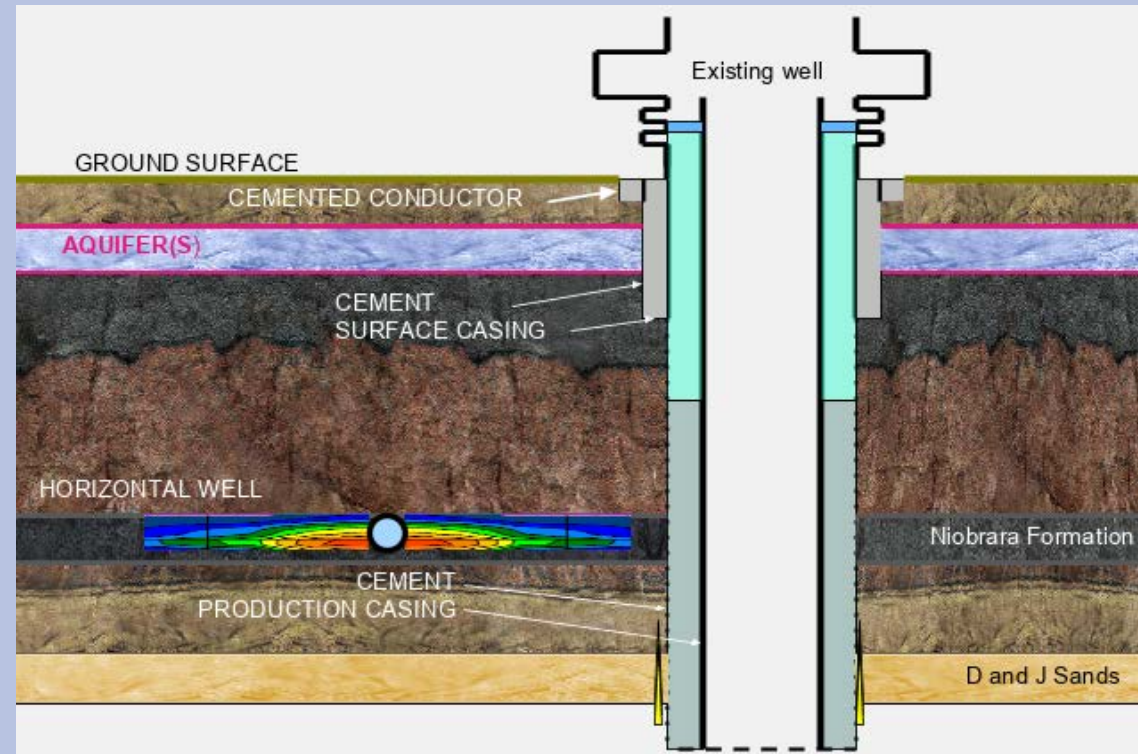
Use this aquifer determination tool developed by Division of Water Resources to verify aquifer elevations.

Engineering- Offset Well Evaluation



- ✧ Create a 1500' buffer around the proposed wellbores.
- ✧ Select the wells within 1500' of the proposed wellbores. Each offset well will be reviewed for adequate aquifer and formation isolation.
- ✧ This example has 12 Form 2s and 104 offset wells that must be reviewed.

Engineering- Offset Well Evaluation



Potential outcomes for each offset well:

1. All known useable fresh water and hydrocarbon producing zones are isolated behind steel and cement.
2. Existing well to remain - remediate to isolate known useable fresh water or hydrocarbon zones.
3. Existing well to be abandoned - plugged to isolate known useable fresh water or hydrocarbon zones.
4. Existing abandoned well re-entered to isolate known useable fresh water or hydrocarbons zones.



*Oil and Gas
Location Assessment
Form 2A*



Form 2A

- ✧ To implement HB07-1298 and HB07-1341, COGCC engaged in significant rule-making effort in 2008, implemented in 2009.
- ✧ Additional Rule makings 2012 for Setbacks - Designated Setback Locations (DSL)
- ✧ Governor's Task Force in 2015

Evaluate and minimize adverse impacts from oil and gas operations to the surrounding area.



Rules in the Form 2A

- ✧ 100-Series - Definitions
- ✧ 300-Series - Drilling, Development, Production, and Abandonment - 303.b, 305, and 306
- ✧ 600-Series - Safety Regulations - 603, 604, and 605
- ✧ 800-Series -Aesthetic and Noise Control Regulations
- ✧ 900-Series - Exploration and Production (E and P) Waste Management - 901-905, 907, and 912
- ✧ 1000-Series - Reclamation Regulation
- ✧ 1200-Series Protection of Wildlife Resources

Form 2A - information:

- Location information - equipment, timing, waste, potential impacts
- Consultation CPW or CDPHE
- Minimum of 8 attachments
- Cultural Distances - determines designated setback - Rule 604 applies
 - ⊕ Additional attachments
 - ⊕ 23 additional best management practices
 - ⊕ Siting rationale
 - ⊕ Notifications



COGCC OGLA Review

- Cultural items - building units, roads, etc
- Lease Agreements/Right to Construct
- Land use
- Waste Management
- Wildlife, wetlands, floodplains, etc.
- Water resources
- Mitigation measures
- Local Jurisdiction and Other Agencies



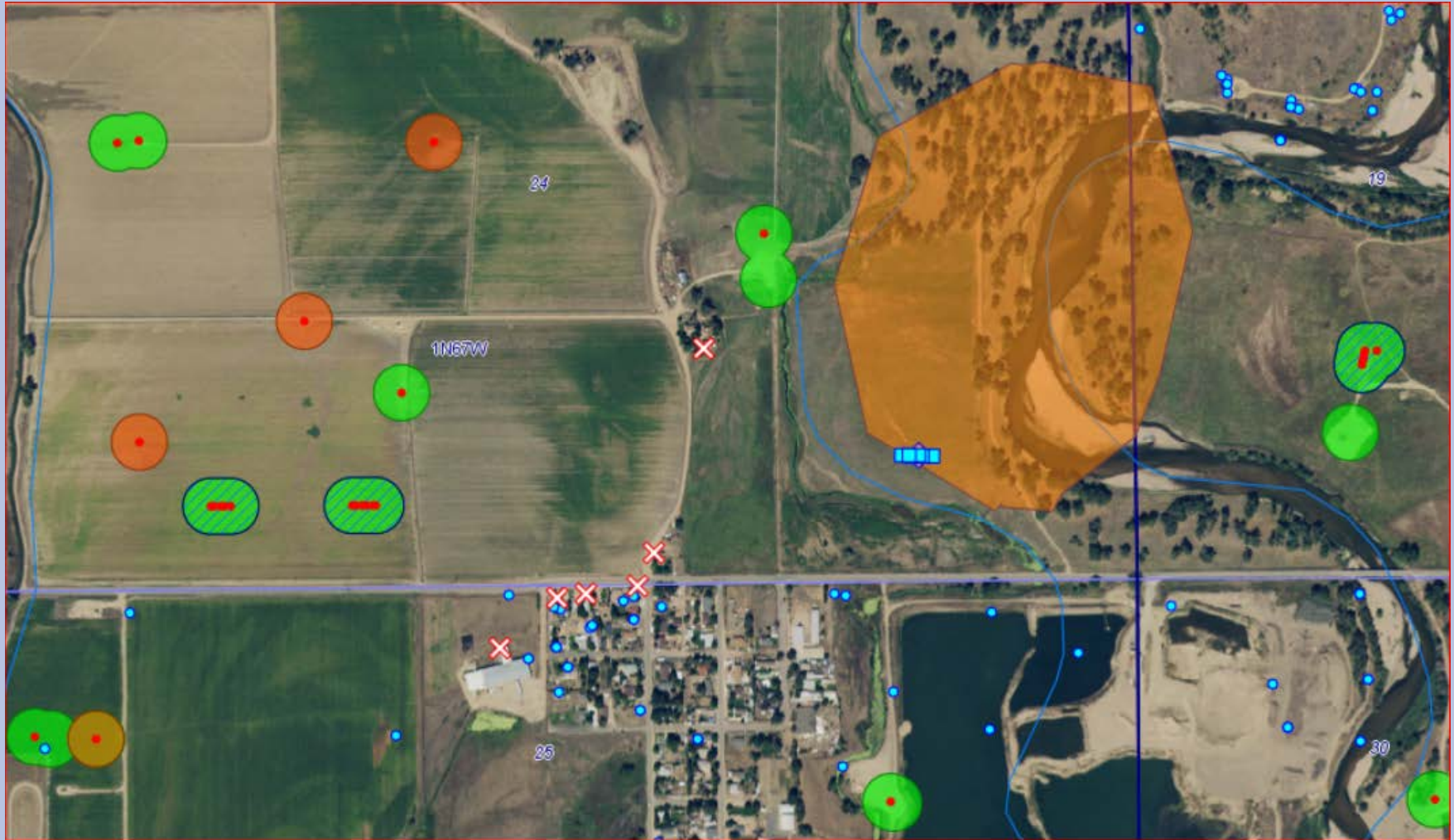
EXAMPLE

- ✧ Two Locations
- ✧ Three Multi-Well Pads
- ✧ One Production Facility
 - Pre-meeting with Operator regarding LUMA and UMA
 - CDPHE consultation
 - CPW consultation

EXAMPLE




COGCC GIS MAPPING



The 2A

- New or Amended,
- Consultations
- Operator
- Contact
- Location Identification

FORM 2A Rev 08/13	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: 401291753
Oil and Gas Location Assessment <input checked="" type="checkbox"/> New Location <input type="checkbox"/> Refile <input type="checkbox"/> Amend Existing Location Location#: _____			Date Received: 06/26/2017
<p>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.</p>			Location ID: Expiration Date:
<input checked="" type="checkbox"/> This location assessment is included as part of a permit application.			
CONSULTATION			
<input type="checkbox"/> This location is included in a Comprehensive Drilling Plan. CDP # _____			
<input checked="" type="checkbox"/> This location is in a sensitive wildlife habitat area.			
<input type="checkbox"/> This location is in a wildlife restricted surface occupancy area.			
<input type="checkbox"/> This location includes a Rule 306.d.(1)A.ii. variance request.			
Operator		Contact Information	
Operator Number: <u>47120</u>		Name: <u>SHAYELYN MARSHALL</u>	
Name: <u>KERR MCGEE OIL & GAS ONSHORE LP</u>		Phone: <u>(720) 929 6907</u>	
Address: <u>P O BOX 173779</u>		Fax: <u>(720) 929 7907</u>	
City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80217-3779</u>		email: <u>CHERYL.LIGHT@ANADARKO.COM</u>	
RECLAMATION FINANCIAL ASSURANCE			
<input checked="" type="checkbox"/> Plugging and Abandonment Bond Surety ID: <u>20010124</u> <input type="checkbox"/> Gas Facility Surety ID: _____			
<input type="checkbox"/> Waste Management Surety ID: _____			
LOCATION IDENTIFICATION			
Name: <u>QUARTER CIRCLE</u>		Number: <u>24-15HZ</u>	
County: <u>WELD</u>			
QuarterQuarter: <u>SESE</u> Section: <u>24</u> Township: <u>1N</u> Range: <u>67W</u> Meridian: <u>6</u> Ground Elevation: <u>4930</u>			
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 point shall be a well location.			

-CULTURAL FEATURES, -SETBACKS, and -NOTIFICATIONS

	From WELL	From PRODUCTION FACILITY	Production Facility to nearest of each cultural feature as described in Rule 303.b.(3)A. - Enter 5280 for distance greater than 1 mile.
Building:	<u>826</u> Feet	<u>629</u> Feet	
Building Unit:	<u>826</u> Feet	<u>629</u> Feet	

Date Run: 1/11/2018 Doc [#401313191]

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High Occupancy Building Unit:	<u>5280</u> Feet	<u>5280</u> Feet	- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both. - Building Unit, High Occupancy Building Unit, and Designated Outside Activity Area - as defined in 100-Series Rules. - For measurement purposes only, Production Facilities should only include those items with an asterisk(*) on the Facilities Tab.
Designated Outside Activity Area:	<u>5280</u> Feet	<u>5280</u> Feet	
Public Road:	<u>354</u> Feet	<u>137</u> Feet	
Above Ground Utility:	<u>339</u> Feet	<u>122</u> Feet	
Railroad:	<u>5280</u> Feet	<u>5280</u> Feet	
Property Line:	<u>343</u> Feet	<u>125</u> Feet	

DESIGNATED SETBACK LOCATION INFORMATION

Check all that apply. This location is within a:

Buffer Zone

Exception Zone

Urban Mitigation Area

Does the UMA Facility meet the definition of a Large UMA Facility Yes No

- Buffer Zone - as described in Rule 604.a.(2), within 1,000' of a Building Unit.
 - Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit.
 - Urban Mitigation Area - as defined in 100-Series Rules.
 - Large UMA Facility - as defined in 100-Series Rules.

Pre-application Notifications (required if location is within 1,000 feet of a building unit):

Date of Rule 305.a.(1) Urban Mitigation Area Notification to Local Government: 05/12/2017

Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: 05/12/2017

Pre-application Notifications (required if location is a Large UMA Facility)

Date of Rule 305A.a.(1)A Notice of intent to construct a Large UMA Facility to Local Government: 12/06/2016

Date of Rule 305A.a.(1)B Notice of intent to construct a Large UMA Facility to Surface Owner: 12/06/2016

Date of Rule 305.a.(3) Large UMA Facility Notice to Proximate Local Governments: 12/06/2016

Large UMA Facility Form 2A Process Initiation (check all that apply)

Rule 305A.f.(1)A. Local Government and Operator have reached agreement regarding the siting of the Large UMA Facility (attach certification of Rule 305A compliance)

Rule 305A.f.(1)B. Rule 305A.e exception claimed (if checked then a 305A exception must be checked on the Exceptions Tab)

Rule 305A.f.(1)C. Local Government waived 305A procedures for this proposed location (attach waiver as evidence of Rule 305A compliance)

Rule 305A.f.(1)D. The Local Government did not respond in writing within 30 days of receiving the notice of intent to construct (attach certification of Rule 305A compliance)

CULTURAL FEATURES





ATTACHMENTS

Desc		Name	View
FORM 2A SUBMITTED		LF@4193631 401291753	View
LOCATION DRAWING		LF@4193632 401293642	View
LOCATION PICTURES		LF@4193633 401293643	View
MULTI-WELL PLAN		LF@4193634 401293644	View
ACCESS ROAD MAP		LF@4193635 401293646	View
NRCS MAP UNIT DESC		LF@4193636 401293647	View
HYDROLOGY MAP		LF@4193638 401312005	View
REFERENCE AREA MAP		LF@4193639 401312006	View
FACILITY LAYOUT DRAWING		LF@4193640 401312151	View
PRE-APPLICATION NOTIFICATION CERTIFICATION		LF@4193641 401312552	View
REFERENCE AREA PICTURES		LF@4193642 401318649	View
WELL LOCATION PLAT		LF@4193643 401318659	View
SURFACE AGRMT/SURETY		LF@4193644 401319001	View
WILDLIFE BMPs		LF@4266144 2316178	View
WASTE MANAGEMENT PLAN		LF@4266145 2316179	View
RULE 306.E. CERTIFICATION		LF@4287319 2316180	View

FACILITIES, CONSTRUCTION, WASTE MANAGEMENT

RELATED REMOTE LOCATIONS

(Enter as many Related Locations as necessary. Enter the Form 2A document # only if there is no established COGCC Location ID#)

This proposed Oil and Gas Location is: **LOCATION ID #** **FORM 2A DOC #**
 Production Facilities Location serves Well(s) _____ 401291753

FACILITIES

Indicate the number of each type of oil and gas facility planned on location

Wells	11	Oil Tanks*	_____	Condensate Tanks*	2	Water Tanks*	5	Buried Produced Water Vaults*	_____
Drilling Pits	_____	Production Pits*	_____	Special Purpose Pits	_____	Multi-Well Pits*	_____	Modular Large Volume Tanks	_____
Pump Jacks	11	Separators*	23	Injection Pumps*	_____	Cavity Pumps*	_____	Gas Compressors*	_____
Gas or Diesel Motors*	_____	Electric Motors	_____	Electric Generators*	_____	Fuel Tanks*	_____	LACT Unit*	4
Dehydrator Units*	_____	Vapor Recovery Unit*	_____	VOC Combustor*	2	Flare*	_____	Pigging Station*	_____

OTHER FACILITIES*

Other Facility Type	Number
Flow Lines	33
Temp 500 bbl tanks w/optional EC	2
Oil Pipeline	1
Gas Pipelines	3

Those facilities indicated by an asterisk () shall be used to determine the distance from the Production Facility to the nearest cultural feature on the Cultural Setbacks Tab.

Per Rule 303.b.(3)C, description of all oil, gas, and/or water pipelines:

Two 500 barrel skid-mounted frac 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.

Please see Comments section for flow line description.

Please see Comments section. Description of pipelines and flow lines does not fit in space provided.

36 temporary tanks with 4 ECDs.

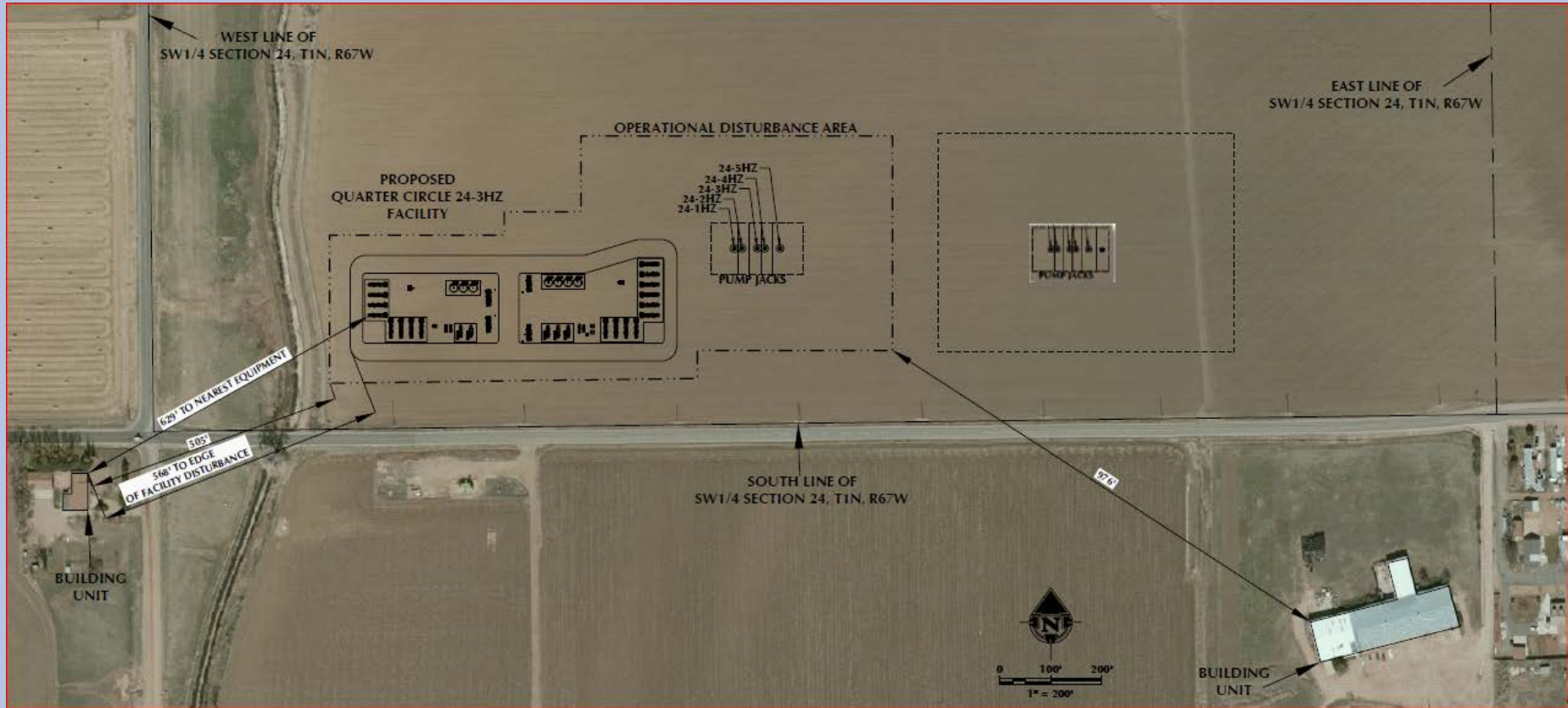
CONSTRUCTION

Date planned to commence construction: 01/22/2018 Size of disturbed area during construction in acres: 15.00
 Estimated date that interim reclamation will begin: 09/01/2018 Size of location after interim reclamation in acres: 4.23
 Estimated post-construction ground elevation: 4940

DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: Yes
 Is H₂S anticipated? No

FACILITY LAYOUT DRAWING



SOIL, VEGETATION, and LAND USE

SOIL

List all soil map units that occur within the proposed location. attach the National Resource Conservation Service (NRCS) report showing the "Map Unit Description" report listing the soil typical vertical profile. This data is to be used when segregating topsoil.

The required information can be obtained from the NRCS web site at <http://soildatamart.nrcs.usda.org/> or from the COGCC web site GIS Online map page found at <http://colorado.gov/cogcc>. Instructions are provided within the COGCC web site help section.

NRCS Map Unit Name: 1—Altvan loam, 0 to 1 percent slopes

NRCS Map Unit Name: 21—Dacono clay loam, 0 to 1 percent slopes

NRCS Map Unit Name: _____

PLANT COMMUNITY:

Complete this section only if any portion of the disturbed area of the location's current land use is on non-crop land.

Are noxious weeds present: Yes No

Plant species from: NRCS or, field observation Date of observation: _____

List individual species: _____

Check all plant communities that exist in the disturbed area.

- Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye)
- Native Grassland (Bluestem, Grama, Wheatgrass, Buffalograss, Fescue, Oatgrass, Brome)
- Shrub Land (Mahogany, Oak, Sage, Serviceberry, Chokecherry)
- Plains Riparian (Cottonwood, Willow, Aspen, Maple, Poplar, Russian Olive, Tamarisk)
- Mountain Riparian (Cottonwood, Willow, Blue Spruce)
- Forest Land (Spruce, Fir, Ponderosa Pine, Lodgepole Pine, Juniper, Pinyon, Aspen)
- Wetlands Aquatic (Bullrush, Sedge, Cattail, Arrowhead)
- Alpine (above timberline)
- Other (describe): _____

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): _____

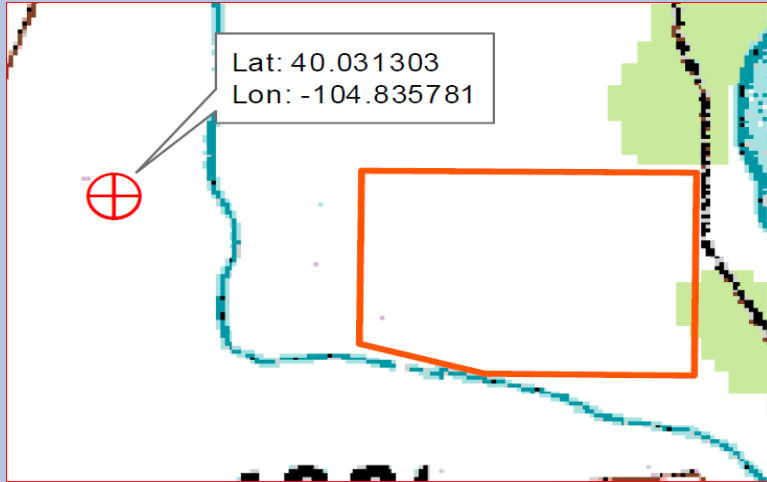
Subdivided: Industrial Commercial Residential



CROPLAND PHOTO



RANGELAND PHOTO



REFERENCE AREA MAP

REFERENCE AREA PHOTO



WATER RESOURCES

- Surface water
- Groundwater
- Floodplain
- Wetlands/
- Riparian
- Water sampling

WILDLIFE

WATER RESOURCES

Is this a sensitive area: No Yes

Distance to nearest
 downgradient surface water feature: 10 Feet
 water well: 473 Feet

Estimated depth to ground water at Oil and Gas Location 2 Feet

Basis for depth to groundwater and sensitive area determination:

Ditch: 10' S Elev: 4927'
 S Platte River: 100' E Elev: 4924'
 Pond: 500' S Elev: 4926'
 Loc Elev: 4930'
 Nearest water wells:
 473' SSW, Permit 179406-, depth 10', Static Water Level 4', Elev 4932'

Location is IN floodplain according to Weld County and FEMA

Is the location in a riparian area: No Yes

Was an Army Corps of Engineers Section 404 permit filed No Yes If yes attach permit.

Is the location within a Rule 317B Surface Water Supply Area buffer No zone:

If the location is within a Rule 317B Surface Water Supply Area buffer have all public water supply systems within 15 miles been notified: _____

Is the Location within a Floodplain? No Yes Floodplain Data Sources Reviewed (check all that apply)

Federal (FEMA)
 State
 County
 Local
 Other _____

GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 318A

WILDLIFE

This location is included in a Wildlife Mitigation Plan

This location was subject to a pre-consultation meeting with CPW held on _____

Operator Proposed Wildlife BMPs

No	Target Species	BMP Type	Description
1	Bald Eagle	Wildlife - Mitigation	

CPW Proposed Wildlife BMPs



WETLANDS

National Wetlands
Inventory



FLOODPLAIN

FEMA Maps



OPERATOR COMMENTS

OPERATOR COMMENTS AND SUBMITTAL

Comments

KMG will comply with the Weld County floodplain requirements. A county permit has been submitted for this location.

This location is located within sensitive wildlife habitat due to the bald eagle nest within the half-mile buffer. KMG has been and will continue to be in contact with Brandon Marette regarding this pad. KMG has conducted preliminary surveys and has identified potential raptor, burrowing owl and mouse habitats. We will monitor the location prior to construction.

Factors that impacted the placement of this well pad:

- Ditches, Rivers and Floodplain
- Crop land
- Drilling restraints (back builds)
- Building Units

KMG placed the well pad as far south as possible, in between a river and a ditch. There are rivers and ditches surrounding the parcel (river to the NE, ditch on the west side running from the N to the SE). We will be utilizing an existing access road in order to minimize surface disturbance. The area to the west was not a viable option because it is used as crop land. We originally planned four pads on this parcel but shrunk it down to three after technological advancements. The parcel to the south is owned by consolidated water company and there are reservoirs on their parcel. We pushed the pad as far east as possible to stay away from the building units to the south west. We were not able to move the pad north because of drilling limitations. The back builds would be too large if we pushed it any further north.

Drilling fluids disposal: KMG will reuse water-based drilling fluids to the maximum extent possible, at which point they will either be land applied or taken to a licensed, commercial disposal site; the decision will be based upon laboratory analysis of fluids. KMG will reuse oil-based drilling fluids to the maximum extent possible, at which point they will be returned to the fluids manufacturer for reconditioning or disposal at a licensed, commercial disposal site.

Cuttings disposal: Water-based cuttings will be disposed of using a Centralized E&P Waste Management facility or a private spread field, depending on what is feasible at the time of drilling. Oil-based cuttings will be disposed of offsite and at a licensed, commercial disposal site.

Flow Lines: Seven flow lines will flow to the production facility location. During production, flow direction in the flow lines is from the well head to the production facility. The size of flow lines is typically 2". Flow lines will be constructed from steel pipe, buried, and will equal the distance between the well heads and the tank battery, approximately 2000'.

SITE SPECIFIC Best Management Practices (BMP) and Conditions of Approval (COA)

Best Management Practices	
No BMP/COA Type	Description
1 Planning	604c.(2).E. Multi-Well Pads: In order to reduce surface impact, this application is for a 7-well pad.
2 Planning	604c.(2).Q. Guy Line Anchors: Guy line anchors will not be used. Base Beams will be used to stabilize the rig and removed after drilling.
3 Planning	604c.(2).R. Tank Specifications: Two 500 barrel skid-mounted frac tanks will be temporarily placed on-site for use of the pre-spud rig only. One tank will store water and the other will store water based mud.
4 Planning	604c.(2).S. Access Roads: KMG will utilize a lease access road from CR 6 for drilling, completions, and production operations, including maintenance equipment. The road will be properly constructed and maintained to accommodate for local emergency vehicle access.
5 Planning	<p>PRESCRIPTIVE MITIGATION</p> <p>Scenario #1: Nest is vacant; alternate nest is used:</p> <ul style="list-style-type: none"> - Begin nest monitoring 1/15 to identify/confirm nest building/occupancy and egg presence (NOTE: eagle behavior will serve as an indication of whether egg is present. Contractor monitoring conclusions/determinations will be shared with CPW for concurrence). - If no eggs are present by 3/15, KMG can commence 24 hour operations (construction/drilling/completion) following notification to CPW. Operations would cease by 10/15. - Primary BMPs would be utilized. <p>Scenario #2: Nest is occupied, but eggs are not viable:</p> <ul style="list-style-type: none"> - Begin nest monitoring 1/15 to identify/confirm nest building/occupancy and egg presence. (NOTE: eagle behavior will serve as an indication of whether egg is present. Contractor monitoring conclusions/determinations will be shared with CPW for concurrence). - If eggs fail to hatch and juveniles fail to materialize by 4/15, KMG can commence 24 hour operations (construction/drilling/completions) following notification to CPW. - Primary BMPs would be utilized. <p>Scenario #3: Nest is occupied, juvenile(s) are present:</p> <ul style="list-style-type: none"> - Construction expected to start no earlier than 6/1 using daylight construction hours - 24 hour Drilling / Completions expected to start no earlier than 7/1 - Primary BMPs would be utilized - Additional BMPs:

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
Construction	The Approved Form 2A permit will be posted at the location during construction, drilling, and completions operations.
Construction	Flowline Layout Drawing - Operator shall provide a scaled drawing that shows the planned layout of all existing and proposed flowlines between the well pad and production pad and between the production pad. Provide the drawing via Form 4 Sundry - due within 30 days of initiating flowline construction.

will be limited to daylight hours (as previously defined) if on 6/1 and 7/31 for 24 hour drilling and completions activity, if said activities occur between 7/1 to 7/31 and/or 10/15 to 11/30. (i.e. our drilling/completions activities will occur prior to or window of 8/1 to 10/15) .

COMMENTS AND TRANSPARENCY

OGLA	OGCC, Operator, and CPW met at the proposed location on 8/17/2017 for wildlife consultation. CPW concerns were in regards to active Eagle nest within the half-mile buffer area. CPW did identify the nest to the northeast of the location and will be providing recommendations to the Operator.	08/22/2017
DOW	CPW spoke with the operator on 8/8/17 about the need to develop BMPs to minimize impacts on a nearby active bald eagle nest, bald eagle winter roost, and potential burrowing owl habitat. Operator is currently discussing BMPs internally and will contact CPWs NE Region Energy Liaison (Brandon Marette 303-291-7327) in the weeks to come.	08/08/2017
LGD	This proposed oil and gas facility is located in the Agricultural Zoned District of unincorporated Weld County. A Weld Oil and Gas Location Assessment (WOGLA) is required prior to constructing any improvements related to oil and gas exploration and production and prior to the issuance of building permits. The operator has applied for a WOGLA, which is currently under review. The operator has been issued a Flood Hazard Development Permit (FHDP17-0020) for planned construction in the floodplain. A building permit is required for the production facilities (tank battery, separators, pump jacks, compressors, generators, etc.) from the Department of Planning Services. Access points from County roads require an Access Permit from the Department of Public Works, which includes any necessary traffic control plans and Improvement Agreements. The use of County right-of-way requires a permit from the Department of Public Works. Troy Swain, Weld Oil/Gas Liaison and LGD (970) 400-3579.	07/28/2017
LGD	The City has no concerns on this project, however it is noted that the wells associated with this Form 2A are located within the Flood Impact Zone.	07/21/2017
Permit	Passed Completeness.	07/10/2017
OGLA	Passed Buffer Zone completeness review. Note that wells are required to have remote shut in capabilities per Rule 603.h.(1)	07/05/2017
Permit	Referred to OGLA Supervisor for buffer zone review.	06/27/2017
Total: 16 comment(s)		

QUESTIONS?