

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:

400930111

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Date Received:

02/29/2016

Oil and Gas Location Assessment

New Location     Refile     Amend Existing Location    Location#: 331768

Submit signed original form. 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.

Location ID:

**331768**

Expiration Date:

**06/21/2019**

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

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: Ronett Powers

Phone: (720) 929-6759

Fax: (720) 929-7759

email: djregulatory@anadarko.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20010124

Gas Facility Surety ID: \_\_\_\_\_

Waste Management Surety ID: \_\_\_\_\_

LOCATION IDENTIFICATION

Name: HILGERS

Number: 40N-34HZ

County: WELD

Quarter: SESE    Section: 22    Township: 3N    Range: 68W    Meridian: 6    Ground Elevation: 5000

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.

Footage at surface: 856 feet FSL from North or South section line

715 feet FEL from East or West section line

Latitude: 40.206605    Longitude: -104.982099

PDOP Reading: 2.1    Date of Measurement: 06/25/2015

Instrument Operator's Name: JEFF HAWKINS

## 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 #**

Well Site is served by Production Facilities

446137

400927215

## FACILITIES

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

Wells	10	Oil Tanks*	_____	Condensate Tanks*	_____	Water Tanks*	_____	Buried Produced Water Vaults*	_____
Drilling Pits	_____	Production Pits*	_____	Special Purpose Pits	_____	Multi-Well Pits*	_____	Modular Large Volume Tanks	_____
Pump Jacks	9	Separators*	_____	Injection Pumps*	_____	Cavity Pumps*	_____	Gas Compressors*	_____
Gas or Diesel Motors*	_____	Electric Motors	_____	Electric Generators*	_____	Fuel Tanks*	_____	LACT Unit*	_____
Dehydrator Units*	_____	Vapor Recovery Unit*	_____	VOC Combustor*	_____	Flare*	_____	Pigging Station*	_____

## OTHER FACILITIES\*

**Other Facility Type**

**Number**

FLOW LINES	29
TEMP 500 BBL TANKS W/OPTIONAL ECDs	2

\*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.

## CONSTRUCTION

Date planned to commence construction: 11/23/2016 Size of disturbed area during construction in acres: 8.80

Estimated date that interim reclamation will begin: 05/29/2017 Size of location after interim reclamation in acres: 1.00

Estimated post-construction ground elevation: 5000

## DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: Yes

Is H<sub>2</sub>S anticipated? No

Will salt sections be encountered during drilling: No

Will salt based mud (>15,000 ppm Cl) 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 Comments section. Disposal description will not fit in space provided.

Beneficial reuse or land application plan submitted? Yes

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

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

## SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: DONALD C. HILGERS

Phone: 650.468.7750

Address: 2322 S. ROGERS ST.

Fax: \_\_\_\_\_

Address: VILLA #20

Email: \_\_\_\_\_

City: MESA State: AZ Zip: 85202

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

Date of Rule 306 surface owner consultation 04/14/2015

## 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 INFORMATION**

Provide the distance to the nearest cultural feature as measured from Wells or Production Facilities onsite.

	<b>From WELL</b>	<b>From PRODUCTION FACILITY</b>
Building:	520 Feet	_____ Feet
Building Unit:	801 Feet	_____ Feet
High Occupancy Building Unit:	5130 Feet	_____ Feet
Designated Outside Activity Area:	5280 Feet	_____ Feet
Public Road:	280 Feet	_____ Feet
Above Ground Utility:	1951 Feet	_____ Feet
Railroad:	5280 Feet	_____ Feet
Property Line:	187 Feet	_____ Feet

**INSTRUCTIONS:**

- All measurements shall be provided from center of nearest Well or edge of nearest 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 - 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 SETBACK LOCATION INFORMATION**

- Check all that apply. This location is within a:
- Buffer Zone
  - Exception Zone
  - Urban Mitigation Area

- 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.

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: 11/10/2015  
 Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: 11/10/2015

**FOR MULTI-WELL PADS AND PRODUCTION FACILITIES WITHIN DESIGNATED SETBACK LOCATIONS ONLY:**

- Check this box if this Oil and Gas Location has or will have Production Facilities that serve multiple wells (on or offsite) and the Production Facilities are proposed to be located less than 1,000 feet from a Building Unit. *(Pursuant to Rule 604.c.(2)E.i., the operator must evaluate alternative locations for the Production Facilities that are farther from the Building Unit, and determine whether those alternative locations were technically feasible and economically practicable for the same proposed development.)*
- By checking this box, I certify that no alternative placements for the Production Facilities, farther from the nearest Building Unit, were available based on the analysis conducted pursuant to Rule 604.c.(2)E.i.

In the space below, explain rationale for siting the multi-well Production Facility(ies) that supports your Rule 604.c.(2)E.i determination. Attach documentation that supports your determination to this Form 2A.

This field is flood-irrigated and is very fertile and valuable to the Surface Owner. The production facility is in the only spot on the parcel where flood waters were able to be re-routed without impacting the efficacy of the flood irrigation.

The West side of the property has shallow ground water (as that is the direction the flood waters flow) and would not be an operationally feasible location for an oil and gas production facility.

Preserving future value of the property for potential development was also a consideration.

The placement of the well locations in the drilling windows further constrained possible tank battery locations.

The separators on this location have been placed further away from residences to reduce noise impacts.

Please see the attached Siting Rationale Map.

**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: 79 WELD LOAM, 1 TO 3 PERCENT SLOPES

NRCS Map Unit Name: 82 WILEY-COLBY COMPLEX, 1 TO 3 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): \_\_\_\_\_

## WATER RESOURCES

Is this a sensitive area:  No  Yes

Distance to nearest

downgradient surface water feature: 698 Feet

water well: 2357 Feet

Estimated depth to ground water at Oil and Gas Location 90 Feet

Basis for depth to groundwater and sensitive area determination:

Basis for depth to groundwater: Identified water well (Permit # 75104) located approximately 7175' NNE of the proposed oil and gas location. Depth to groundwater at water well is 15' and the water well is at an elevation of approximately 4925'.

Although the calculation for depth to groundwater results in an estimation of 90', based on experience and proximity to surface water features, we estimate depth to groundwater to be between 10' – 20'.

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

## DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

- Rule 604.a.(1)A. Exception Zone (within 500' of Building Unit)
- 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

**OTHER DISPOSAL DESCRIPTION**

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.

If don't know if surface owner agrees to onsite disposal:

Cuttings disposal: If the surface owner authorizes, and if it is feasible for this location at the time of drilling, water-based cuttings will be disposed of onsite using bioremediation/solidification product. If the surface owner does not authorize onsite disposal and/or it is not feasible for this location at the time of drilling, water-based cuttings will be disposed of using a Centralized E&P Waste Management facility or a private spread field. Oil-based cuttings will be disposed of offsite and at a licensed, commercial disposal site.

**FLOW LINES DESCRIPTION**

Flow Lines: Ten 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 1900' (to the Location associated with 2A Document #400927215).

Ten fuel gas 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 poly or steel pipe, buried, and will equal the distance between the well heads and the tank battery, approximately 1900' (to the Location associated with 2A Document #400927215).

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, approximately 1900' (to the Location associated with 2A Document #400927215).

Please Note: The Location Pictures attached to this Form 2A show snow, however this is an existing location and the ground underneath the snow is disturbed ground associated with the location. The crops adjacent are visible despite the small amount of snow.

Please Note: The existing well on this location will either be P&A'd or will be incorporated into the new production facility that will serve these wells. The existing production facilities serving the existing well will go away in either scenario.

Please Note: This location is subject to the Large Urban Mitigation Facility rules. This location qualifies as Urban Mitigation due to the proximity of a large number of large commercial buildings on the other side of I-25. Our operations are unlikely to add significant disturbance to these offset commercial buildings, mostly due to the ambient noise from traffic on the Interstate and the fact that those commercial spaces do not operate 24 hours a day.

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

Signed: \_\_\_\_\_ Date: 02/29/2016 Email: djregulatory@anadarko.com

Print Name: Ronett Powers Title: Regulatory Analyst II

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: 6/22/2016

**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.**

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

**Best Management Practices**

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
1	Planning	604c.(2).E. Multi-Well Pads: In order to reduce surface impact, this application is for a nine-well pad.
2	Planning	604c.(2).Q. Guy Line Anchors: Should guy line anchors be left buried for future use, they shall be identified by a bright marker greater than four (4) feet high and no more than one (1) foot east of the guy line anchor.

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 Highway 66 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	604c.(2).V. Development From Existing Well Pads: KMG will locate the nine new proposed horizontal wells on the existing well pad with location ID # 331768 to reduce the amount of surface disturbance associated with this project.
6	Community Outreach and Notification	<p>305.a.(2) A Notice of Intent to Conduct Operations was sent to each building unit owner within the Exception Zone or Buffer Zone Setback. Recipients did not contact KMG.</p> <p>As a part of planning this proposed location, Kerr-McGee held multi-disciplinary Surface Impact Planning Meetings regarding the impacts and mitigations associated with this proposed location. The toll-free hotline number and email for the Anadarko Colorado Response Line will be posted at the entrance to the lease access road for stakeholders during drilling and completion operations at this proposed location. Courtesy Notifications will be sent to impacted stakeholders prior to drilling operations and again prior to completions operations, providing contact information for the Anadarko Colorado Response Line and online resources.</p>
7	Traffic control	604c.(2).D. Traffic Plan: If required by the local government, a traffic plan will be coordinated with the local jurisdiction prior to commencement of operations.
8	General Housekeeping	604c.(2).O. Loadlines: All loadlines shall be bullplugged or capped.
9	General Housekeeping	604c.(2).P. 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.
10	Storm Water/Erosion Control	604c.(2).G. Berm Construction: Kerr-McGee will create tertiary containment by construction of a berm or diversion dike, site grading, or other comparable measures sufficient to further protect the ditch located 698' SW of this proposed oil and gas location.
11	Storm Water/Erosion Control	604c.(2).W. Site-Specific Measures: KMG maintains a Storm Water Management Plan that assesses erosion control for every KMG operated location. This location will be added to this plan once construction begins. This site will be inspected every fourteen (14) days during construction activities, every twenty-eight (28) days after construction is completed, and after any major weather event.
12	Material Handling and Spill Prevention	604c.(2).N. Control of Fire Hazards: KMG and its contractors will employ best management practices during the drilling and production of its wells and facilities and will comply with appropriate COGCC rules concerning safety and fire. KMG will ensure that any material that might be deemed a fire hazard will remain no less than twenty-five (25) feet from the wellhead(s), tanks and separator(s).
13	Dust control	<p>805.c. Dust: Water will be placed on dirt access roads to mitigate dust as needed. If feasible, magnesium chloride will also be used as needed on access roads to further abate dust. Highway 66 is paved and maintained by Weld County and will therefore not require dust mitigation.</p> <p>Straw bales placed on location will further help to minimize dust impacts from operations on location to the surrounding area.</p>
14	Construction	604c.(2).M. Fencing Requirements: The completed wellsites will be surrounded with a fence and gate with adequate lock to restrict access to authorized personnel only. KMG personnel will monitor the wellsites regularly upon completion of the wells. Authorized representatives and/or KMG personnel shall be on-site during drilling and completion operations.

15	Noise mitigation	<p>604c.(2).A. Noise: Sound surveys have been conducted on each rig type and are utilized to anticipate any additional effective noise mitigation once a drilling rig is determined.</p> <p>At a minimum, and pending a safety review after construction of the location, sound mitigation barriers (straw bales) will be placed around the perimeter of the pad location (excluding access points) to dampen noise and minimize impact to the nearby residences and to Highway 66 and Interstate 25 during drilling and completions. Operations are not expected to significantly impact the building units on the other side of the Interstate, due to the commercial/industrial nature of the building units and the ambient noise from the Interstate.</p> <p>Should technological advancements allow for better noise mitigation at the time of drilling and completion operations on this location, Kerr-McGee will re-evaluate the most effective method at that time.</p>
16	Drilling/Completion Operations	604c.(2).B. Closed Loop Drilling System: KMG will use a closed loop or "pitless" system for drilling and fluid management and will not construct a reserve pit.
17	Drilling/Completion Operations	604c.(2).C. Green Completions: Temporary above ground polyethylene water pipelines will deliver water to location operations from larger trunk lines to reduce truck traffic and minimize air pollution. Pipeline infrastructure is in place prior to completions operations to ensure saleable gas, once hydrocarbons are cut, is sent directly to sales without flaring during flowback.
18	Drilling/Completion Operations	604c.(2).H. BOPE: Our rigs at a minimum will have a double ram with blind and pipe ram and annular preventer.
19	Drilling/Completion Operations	604c.(2).I. BOPE Testing for Drilling Operations: Upon initial rig-up, BOPes will be tested at a minimum of every 30 days.
20	Drilling/Completion Operations	604c.(2).J. BOPE for Well Servicing Operations: Blowout prevention equipment will be used on any servicing operations associated with this well. Backup stabbing valves will be used during any future servicing operations during reverse circulation. Valves shall be pressure tested before each well servicing operation using low-pressure air and high-pressure fluid.
21	Drilling/Completion Operations	604c.(2).K. Pit Level Indicators: All storage tanks used for active drilling operations (in lieu of pits) contain pit level monitors with Electronic Drilling Recorders (EDR). KMG 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.
22	Drilling/Completion Operations	604c.(2).L. Drill Stem Tests: No drill stem tests are planned and none will be performed without prior approval from the Director.
23	Drilling/Completion Operations	<p>803. Lighting: To the extent practicable, site lighting shall be shielded and directed downward and inward toward operations to avoid glare on public roads and nearby Building Units.</p> <p>Straw bales placed on location will further assist in mitigating light nuisance for residents and drivers in the area. LED lighting will be utilized during completions operations on this location.</p>
24	Drilling/Completion Operations	Visual Mitigation: A flare enclosure will be utilized during drilling operations. Straw bales will also assist in providing visual mitigation during drilling and completion operations.
25	Drilling/Completion Operations	604.c.(4)B.i. Production Facility will be automated and remotely monitored by the Integrated Operations Center (IOC) at all times. In the event of a fire, explosion or lighting strike, wells flowing to the Production Facility would be remotely shut-in and Kerr McGee's Emergency Response Plan would be initiated. This location is bonded and grounded and static is not a concern due to the lack of oil storage tanks.
26	Drilling/Completion Operations	604.c.(4)B.ii. The piping between pieces of equipment on this Production Facility will be above-ground on racks, expediting any fluid leak detection and associated repair. Oil will be piped off location in a closed system to the sales line, minimizing on-site fluid handling and storage. Water and condensate will be stored on location and Kerr-McGee will adhere to all regulations pertaining to leak detection, repair, reporting and record keeping.

27	Drilling/Completion Operations	604.c.(4)B.iii. This Production Facility will have continuous pressure monitoring by the IOC (Integrated Operations Center) and in the event of an upset condition the entire facility would be shut down to prevent improper venting from occurring. Bulk and production separators have monitors that assist in preventing a release to the atmosphere. ECDs are constantly monitored and any upset conditions would result in all wells served by the ECD being automatic remotely shut-in. At this site, Kerr-McGee will install compressed air (instrument air skids) to drive pneumatically actuated valves; there are no emissions associated with this activity. Wells are also shut-in automatically or remotely shut-in in upset conditions.
28	Drilling/Completion Operations	604.c.(4)B.iv. Zero flaring or venting of gas upon completion of flowback, excepting upset or emergency conditions, or with prior written approval from the director for necessary maintenance operations.
29	Drilling/Completion Operations	604.c.(4)B.v. Fluid levels at the Production Facility are metered via sensor automation. Maintenance tanks are used only during maintenance and upset conditions, with levels monitored at all times. Oil will not be trucked off location; it will be transported via a closed system that ties into a sales line.
30	Drilling/Completion Operations	604.c.(4)B.vi. During completions operations, proppant is contained on location in sand silos, which are designed to minimize release and reduce silica dust at ground level and at breathing levels. The associated process has been tested to ensure compliance with OSHA & industry regulations and standards.
31	Final Reclamation	604c.(2).T. 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.
32	Final Reclamation	604c.(2).U. Identification of Plugged and Abandoned Wells: Pursuant to rule 319.a.(5)., once the well has been plugged and abandoned, KMG will identify the location of the wellbore with a permanent monument that will detail the well name and date of plugging.

Total: 32 comment(s)

### Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
1668951	RULE 306.E. CERTIFICATION
400930111	FORM 2A SUBMITTED
400984598	LOCATION DRAWING
400984599	WELL LOCATION PLAT
400984612	LOCATION PICTURES
400984617	MULTI-WELL PLAN
400984618	HYDROLOGY MAP
400984626	ACCESS ROAD MAP
400984628	NRCS MAP UNIT DESC
400984629	WASTE MANAGEMENT PLAN
400984635	FACILITY LAYOUT DRAWING
400996770	SITING RATIONALE
400996775	OTHER

Total Attach: 13 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Added Loc. ID#446137 for approved related remove production facility location.	6/22/2016 7:19:10 AM
Permit	Final Review Completed.	6/21/2016 9:52:54 AM
OGLA	Based on the information provided by the Operator, COGCC has determined that this proposed Oil and Gas Location meets the requirements for conditional approval based on compliance with COGCC Rules, including, but not limited to; Rule 604 Series Setback and Mitigation Measures. The Operator has presented a siting rationale for the Production Facilities in the Buffer Zone and Best Management Practices that adequately address site specific environmental, health, safety and welfare concerns.	6/20/2016 9:35:55 AM
OGLA	Potential CDOT concern - OGCC spoke with CDOT on 6/8/16 and location is outside the area of concern for I-25 expansion. Supervisor review for LUMA.	6/17/2016 1:39:29 PM
Permit	Permitting Review Complete.	5/1/2016 3:22:41 PM
OGLA	Emailed Operator regarding clarification on BMP #27 for well shut-in in addition to ECD shut in. Operator replied wells can be remotely and automatically shut-in. Add information to BMP #27	5/9/2016 2:14:50 PM
OGLA	Operator sent 306e certification letter - attached. Added siting rationale regarding LUMA under Operator comments.	4/28/2016 12:40:47 PM
OGLA	Spoke with Operator on 3/29/16 regarding 306e cert. They are waiting from public reations team to be sure all questions are answered from 305 letters.	4/14/2016 2:23:44 PM
LGD	This proposed location is within the Town of Mead.As of today's date, March 21, 2016, the Weld County Oil and Gas Liaison/LGD has not been contacted by any nearby resident(s) or governmental jurisdiction(s) regarding this proposed location.Weld County has a Coordinated Planning Agreement with the Town of Mead, which includes a land use referral process.	3/21/2016 2:15:07 PM
OGLA	OGLA review - Groundwater listed on 2A is at 90 feet, but mentioned that GW is more likely between 10-20 ft bgs. - BMP 10 has measures to protect SW and GW. Nearest resident is approx 1,400 ft west. LgUMA due to commercial buildings on the east side of I-25.	3/16/2016 4:14:36 PM
Permit	Passed completeness.	3/7/2016 8:25:31 AM
OGLA	Passed Buffer Zone completeness review.	3/4/2016 2:25:22 PM
Permit	Referred to OGLA supervisor for buffer zone review.	3/1/2016 8:23:36 AM

Total: 13 comment(s)