FORM	Sta	te of Colorado			DNR	Document Number:
2A Rev				ו		401905163
02/19		t, Suite 801, Denver, Colo 894-2100 Fax: (303) 894			CO	
	Oil and Gas	Location Asses	ssment			Date Received:
🕅 New Loc	ation 📃 Refile	Amend Existin	g Location Lo	ocation#:		02/15/2019
activity assocition construction constructio	Gas Location Assessment is to ated with oil and gas operatio of the below specified Location ority. Please see the COGCC Oil and Gas Location Assessr	ns. Approval of this Oil ar ; however, it does not sup website at http://cogcc.st	nd Gas Location persede any land	Assessment will use rules applie	allow for the ed by the local	Location ID: Expiration Date:
X This location	on assessment is included	as part of a permit app	lication.			
This loo This loo This loo	<b>FATION</b> cation is included in a Com cation is in a sensitive wildl cation is in a wildlife restric cation includes a Rule 306.	ife habitat area. red surface occupancy	area.		-	
Operator					t Information	_
Operator Nu					LISA SCHINDLE	:R
	ERR MCGEE OIL & GAS C	INSHORE LP			(720) 929-3091	
	° O BOX 173779			Fax:	(720) 929-3091	
City: DEN	VER State	: <u>CO</u> Zip:	80217-3779	email:	LISA.SCHINDLE COM	R@ANADARKO.
Plugging	AL ASSURANCE g and Abandonment Bond Management Surety ID (Ru	-	20010124	🦳 Gas Fac	ility Surety ID (Ru	ıle 711):
Name: MAE	J WELD		NU	mber: 14-8H	HZ PAD	
QuarterQuart	er: SESW Section:	8 Township: 1	N Range:	68W M	eridian: 6	Ground Elevation: 5081
	le point as a location refere	·	tion. When the		be used as a well	site then the point shall be
Footage at su	Irface: 896 feet FSL	from North or South	section line			
	2420 feet FWL	from East or West se	ection line			
Latitude: 4	0.060711 Longitude:	-105.028600				
PDOP Readi	·		10/26/2018			
Instrument O	perator's Name: ROB WI	LSON				

RELATED REMOTE LOCATIONS			
(Enter as many Related Locations as necessary. Enter	the Form 2A docum	ent # only if there is no est	ablished COGCC Location ID#)
This proposed Oil and Gas Location is:	LOCATION ID #	FORM 2A DOC #	
FACILITIES			
Indicate the number of each type of oil and gas facility	planned on location		
Wells 12 Oil Tanks*	Condensate Tanks*	1 Water Tanks* 2	Buried Produced Water Vaults*
Drilling Pits Production Pits*	Special Purpose Pits	Multi-Well Pits*	Modular Large Volume Tanks
Pump Jacks 12 Separators* 14	Injection Pumps*	Cavity Pumps*	Gas Compressors*
Gas or Diesel Motors* Electric Motors	Electric Generators*	Fuel Tanks*	LACT Unit*2
Dehydrator Units* Vapor Recovery Unit*	VOC Combustor*	1 Flare*	Pigging Station*
OTHER FACILITIES*			
Other Facility Type		Number	
COMPRESSED AIR SUPPLY LINES		12	
FLOW LINES		12	
GAS PIPELINES		3	
		14	
OIL PIPELINES GAS LIFT LINES		1	
TEMPORARY ECDs		3	
*Those facilities indicated by an asterisk (*) shall be us cultural feature on the Cultural Setbacks Tab. Per Rule 303.b.(3)C, description of all oil, gas, and/or v Two 500 barrel skid-mounted frac tanks will be temp and the other will store water-based mud. A tempora Twelve temporary 500 barrel tanks and two tempora estimated the temporary tanks will be on location for declines. The ECDs will be on location for the duration	vater pipelines: orarily placed onsite ry ECD may be utiliz ry ECDs will be utiliz 6 - 9 months, and w	for use of the pre-spud rig ed during drilling. ed during flowback and init ill be removed incremental	only. One tank will store water tially for produced water. It is
Please see Comments section for flow line and pipel	ine description.		
CONSTRUCTION			
Date planned to commence construction: 06/01/	2019 Size	e of disturbed area during	g construction in acres: 16.54
Estimated date that interim reclamation will begin			
Estimated post-construction ground elevation: 5			
DRILLING PROGRAM			
Will a closed loop system be used for drilling fluid	s: 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? <u>Yes</u>			

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 FOR DISPOSAL DESCRIPTION						
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: UPLAND INDUSTRIES CORP Phone:						
Address: PO BOX 1330 Fax:						
Address: Email:						
City: HOUSTON State: TX Zip: 77251						
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: applicant is owner						
The right to construct this Oil and Gas Location is granted by: applicant is owner						
Surface damage assurance if no agreement is in place: Surface Surface Surety ID:						
Surface damage assurance if no agreement is in place: Surface Surety ID:						
Surface damage assurance if no agreement is in place:						
Surface damage assurance if no agreement is in place:						
Surface damage assurance if no agreement is in place:       Surface Surety ID:         Date of Rule 306 surface owner consultation       01/30/2019         CURRENT AND FUTURE LAND USE       Current Land Use (Check all that apply):						
Surface damage assurance if no agreement is in place: Surface Surety ID:   Date of Rule 306 surface owner consultation 01/30/2019   CURRENT AND FUTURE LAND USE   Current Land Use (Check all that apply):   Crop Land:   Irrigated Dry land Improved Pasture Hay Meadow CRP						
Surface damage assurance if no agreement is in place: Surface Surety ID:   Date of Rule 306 surface owner consultation 01/30/2019   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):						
Surface damage assurance if no agreement is in place: Surface Surety ID:   Date of Rule 306 surface owner consultation 01/30/2019   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						
Surface damage assurance if no agreement is in place: Surface Surety ID:   Date of Rule 306 surface owner consultation 01/30/2019   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:   Industrial   Commercial   Residential   Future Land Use (Check all that apply):						
Surface damage assurance if no agreement is in place: Surface Surety ID:   Date of Rule 306 surface owner consultation 01/30/2019   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:   Industrial   Commercial   Residential   Future Land Use (Check all that apply): Crop Land:   Industrial   Commercial   Residential   Future Land Use (Check all that apply):   Crop Land:   Industrial   Commercial   Residential						
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Surface damage assurance if no agreement is in place: Surface Surety ID:   Date of Rule 306 surface owner consultation 01/30/2019   CURRENT AND FUTURE LAND USE   Current Land Use (Check all that apply):   Crop Land:   Irrigated   Dy land   Improved Pasture   Hay Meadow   CRP   Non-Crop Land:   Industrial   Commercial   Residential   Future Land Use (Check all that apply): Crop Land: Industrial Commercial Residential Future Land Use (Check all that apply): Crop Land: Irrigated Dry land Improved Pasture Hay Meadow CRP Non-Crop Land: Irrigated Dry land Improved Pasture Hay Meadow CRP CRP Non-Crop Land: Irrigated Dry land Improved Pasture Hay Meadow CRP CRP Non-Crop Land: Irrigated Dry land Improved Pasture Hay Meadow CRP CRP Non-Crop Land: Improved Pasture Recreational Other (describe):						
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#### CULTURAL DISTANCE INFORMATION

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

	From WE	ELL	From PR		
Building:	1957	Feet	2182	Feet	
Building Unit:	1998	Feet	2186	Feet	
High Occupancy Building Unit:	4045	Feet	3778	Feet	
Designated Outside Activity Area:	5280	Feet	5280	Feet	
Public Road:	715	Feet	202	Feet	
Above Ground Utility:	826	Feet	310	Feet	
Railroad:	445	Feet	826	Feet	
Property Line:	275	Feet	220	Feet	
School Facility::		Feet		Feet	
School Property Line:		Feet		Feet	
Child Care Center:		Feet		Feet	
SCHOOL SETBACK INFORM Was Notice required under Rule 30		Yes	No		
DESIGNATED SETBACK LOO		NFORM	<b>IATION</b>		
Check all that apply. This location is v	within a:				
Buffer Zone					
Exception Zone					

Urban Mitigation Area

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:

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

# FOR MULTI-WELL PADS AND PRODUCTION FACILTIES 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.

#### 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 used when segregating topsoil.

INSTRUCTIONS:

same distance for both.

Facilities Tab.

Series Rules.

Series Rules.

(3)A.

mile.

- 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.

- Enter 5280 for distance greater than 1

- Building - nearest building of any type. If nearest Building is a Building Unit, enter

- Building Unit, High Occupancy Building Unit, and Designated Outside Activity 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-

- Large UMA Facility – as defined in 100-

as defined in 100-Series Rules.
 For measurement purposes only,
 Production Facilities should only include those items with an asterisk(\*) on the

			datamart.nrcs.usda.org/ or from the tructions are provided within the COGCC
NRCS Map Unit Name	: 79 - WELD LOAM, 1	1 TO 3 PERCENT SLOPES	
NRCS Map Unit Name	: 83 - WILEY-COLBY	COMPLEX, 3 TO 5 PERCENT S	LOPES
NRCS Map Unit Name	:		
PLANT COMMUNIT		e disturbed area of the location's o	current land use is on non-crop land.
Are noxious weeds pre	esent: Yes 🗵	No 📃	
Plant species from:	NRCS or,	<b>x</b> field observation	Date of observation: 02/01/2019
List individual species:	clover, kochia, musk t		rass, yellow tansy mustard, yellow sweet thistle, horseweed, prickly lettuce, flixweed, thistle,
<ul> <li>Shrub Land (Mahog</li> <li>Plains Riparian (Co</li> <li>Mountain Riparian</li> <li>Forest Land (Spruce)</li> </ul>	d (Cactus, Yucca, Che Bluestem, Grama, Whe gany, Oak, Sage, Servi ottonwood, Willow, Aspe (Cottonwood, Willow, B ce, Fir, Ponderosa Pine Bullrush, Sedge, Cattai	atgrass, Rye) eatgrass, Buffalograss, Fescue, O ceberry, Chokecherry) en, Maple, Poplar, Russian Olive, Blue Spruce) , Lodgepole Pine, Juniper, Pinyor	Tamarisk)

WATER RESOURCES	
Is this a sensitive area: 🔲 No 🕅 Yes	
Distance to nearest	
downgradient surface water feature: 60 Fe	eet
water well:1660_Feet	
Estimated depth to ground water at Oil and Gas Loca	tion <u>10</u> Feet
Basis for depth to groundwater and sensitive ar	ea determination:
**Ephemeral Stream: 60' NW Elev: 5067' **Ditch: 292' W Elev: 5065'	
Pond: 378' SSW Elev: 5079'	
Loc Elev: 5081' **Distances are measured to present alignment of su	Irface water features.
Nearest water wells: 1660' N, Permit 17523-F, depth unknown, Static Wat 1909' W, Permit 53218-, depth 36', Static Water Leve	er Level unknown, Elev 5081' el 20', Elev 5098'
Sensitive Area Determination: SENSITIVE AREA, do less than 20'. Location is NOT in floodplain according to Weld Court	owngradient surface water feature within 1,000' AND depth to groundwater
*(SWL calc: (5081 - 5098) + 20 = 3)	
Although the calculation for depth to groundwater res	sults in an estimation of 3' it is estimated depth to groundwater to be between ad to a depth of 8' without the presence of groundwater and proximity to
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 Sup zone:	ply Area buffer <u>No</u>
If the location is within a Rule 317B Surface Wa within 15 miles been notified:	ter Supply Area buffer have all public water supply systems
Is the Location within a IX No I Yes Floodplain?	Floodplain Data Sources Reviewed (check all that apply)
	IX Federal (FEMA)
	State
	Image: County
	Local
	Other
GROUNDWATER BASELINE SAMPLING A	ND 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 r	
	<u> </u>
Operator Proposed Wildlife BMPs	

### CPW Proposed Wildlife BMPs

No BMP

#### DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

- Rule 604.a.(1)A. Exception Zone (within 500' of a Building Unit) and is in an Urban Mitigation Area
- Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of Rule 604.a.)
- Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)
- Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)
- Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)

#### **RULE 502.b VARIANCE REQUEST**

Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number

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

#### **OPERATOR COMMENTS AND SUBMITTAL**

Comments

PLEASE ENSURE ALL CORRESPONDENCE ASSOCIATED WITH THIS PERMIT GOES TO ANALYST EMAIL AND DJREGULATORY EMAIL AS LISTED ON THIS PERMIT.
SUBJECT LOCATION (PAD EDGE) IS GREATER THAN 1,320' FROM A SCHOOL PROPERTY BOUNDARY OR DAY CARE FACILITY BOUNDARY, AS CONFIRMED VIA GIS SURVEILANCE. Upland Industries Corp. is owned by Anadarko Petroleum Corporation. Applicant is the landowner therefore no surface use agreement is submitted. 318A waiver attached.
Drilling fluids disposal: KMG will reuse water-based drilling fluids to the maximum extent possible, at which point they will either be land applied offsite or taken offsite 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 offsite at a licensed, commercial disposal site.
Cuttings disposal: Water-based cuttings will be disposed of offsite using a Centralized E&P Waste Management facility or a private spread field (offsite), 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.
Pipelines: Buried pipelines will be utilized to gather the gas and oil product from the location (3 gas pipelines, 1 oil pipeline). Both gas and oil pipelines will be constructed from steel of suitable wall thickness and material grade to meet the respective gathering systems design pressure. Gas pipelines will range in diameter from 4" to 20"; oil pipelines from 4" to 12". Capacity of pipelines will vary based on diameter. Pipelines will begin at the location and terminate at larger trunk lines in the area.
Temporary above ground polyethylene water pipelines (diameter 10" – 12" with a 60 BPM capacity) will deliver water to location operations from larger trunk lines.
12 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 production facility, approximately 460' to 700'.
12 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, approximately 460' to 700'.
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 production facility, approximately 460' to 700'.
Cultural distances for temporary tank area as follows: Distance to Building is 2129', Building Unit is 2130', Public Road is 391', Above Ground Utility is 500', Railroad is 676', Property Line is 408', HOBU is 3673' and DOAA is 5280'.
CUSTODY TRANSFER: 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. Oil is transferred from the LACT Unit into a pipeline owned by Anadarko Wattenberg Oil Complex LLC
I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete. Signed: Date: 02/15/2019 Email: DJREGULATORY@ANADARKO.COM
Print Name: LISA SCHINDLER Title: SR REGULATORY ANALYST
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:
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
Best Management Practices

	BMP/COA Type	Description
1	Planning	604c.(2).E. Multi-Well Pads: In order to reduce surface impact, this application is for a 12-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 Weld CR 10 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: Drilling from an existing well pad was not feasible for the development of the wells on this proposed oil and gas location however, this well pad will be considered for future well locations
6	Community Outreach and Notification	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.
7	Traffic control	KMG currently plans to use the water-on-demand system on this location which is a network of over 140 miles of underground pipeline 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.
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 debri 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 and disposed of in an appropriate manner.
10	General Housekeeping	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.
11	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 adjacent water features, including the ephemeral stream 60 NW, the ditch 292' W and the pond 378' SSW of this proposed oil and gas location
12	Material Handling and Spill Prevention	604c.(2).G. Berm Construction: The temporary produced water storage tanks will be staged on a geosynthetic liner and surrounded by an earthen berm. The berms shall enclose an area sufficient to provide secondary containment for 150% of the volume of the largest single tank, and shall be sufficiently impervious to contain spilled or released material. Berms and the liner shall be inspected at regular intervals and maintained in good condition.
13	Emissions mitigation	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.
14	Material Handling and Spill Prevention	604c.(2).R. Tank Specifications: A geosynthetic liner will be laid under the tanks on this location and a steel containment will be constructed. Storage tanks will be designed, constructed and maintained in accordance with National Fire Protection Association (NFPA) Code 30 (2008 version). KMG will maintain written records to verify proper design, construction and maintenance. All records will be available for inspection by the Director.
15	Odor mitigation	805b. Odors: KMG will comply with the provisions of Rule 805b as deemed applicable Additional BMPs for the location are: 1) the storage of excess drilling fluid (e.g., fluid not being used in the active mud system) in closed, upright tanks; and 2) the use of ar odor neutralizer in the active mud system.

16	Planning	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.
		As a part of planning this proposed location, Kerr-McGee will hold 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
17	Traffic control	604c.(2).D. Traffic Plan: Prior to the commencement of operations, the operator will obtain access and ROW permits per Weld County Code and implement COAs or traff control plans as required.
18	Storm Water/Erosion Control	604c.(2).W. Site-Specific Measures: KMG maintains a Storm Water Management Pla 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 fourteer 14) days during construction activities, every twenty-eight (28) days after construction is completed, and after any major weather event.
		Examples include ditching and berming and installation of sediment catch basins as needed
19	Material Handling and Spill Prevention	604c.(2).F. Leak Detection Plan: Automation technology will be utilized at this facility. This technology includes the use of fluid level monitoring for the tanks and produced water sumps, high-level shut offs, and electronic sensors to monitor the interstitial space of double-walled produced water sumps. All automation is monitored by Kerr-McGee's Integrated Operations Center (IOC), which is manned 24 hours per day, 7 days per week.
20	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).
21	Material Handling and Spill Prevention	606.A.d. Fire Prevention and Protection: KMG and its contractors will employ best management practices during the drilling and production of its wells and and will comply with appropriate COGCC rules concerning fire prevention. Flammable liquids will not be stored within (fifty) 50' of the proposed wellheads. If storage of flammable liquid is to be conducted within (fifty) 50' of the wellhead, sufficient safety measures will be implemented.
22	Material Handling and Spill Prevention	604c.(2).K. 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 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.
23	Dust control	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.
24	Construction	604c.(2).G. Berm Construction: A geosynthetic liner will be laid under the tanks on thi location and a metal containment will be constructed. Berms or other secondary containment devices will be constructed around crude oil, condensate, and produced water storage tanks and shall enclose an area sufficient to contain and provide secondary containment for 150% of the largest single tank. Berms and other secondary containment devices shall be inspected at scheduled intervals and maintained in good condition

25 Co	onstruction	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.
26 Fir	nal 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.
27 Fir	nal 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.
28 No	oise mitigation	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. Pending a safety review after construction of the location, the pad may have a full or partial sound wall wrap. Mitigation walls will be placed along some or all of the edges of the pad location, except as needed for ingress and egress, to dampen noise and minimize impact to the adjacent town of Erie and to Weld County Road 10 during drilling and completions.
		If needed, use of a sound walls or similar devices would restrict visual (sight) impacts and minimize auditory (sound) impacts to surrounding stakeholders. Sound walls would be deployed in such a manner that provides for unrestricted ingress/egress to the well pad using approved access road(s).
		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.
29 No	oise mitigation	Quiet completions fleet will be used for completions operations

Total: 29 comment(s)

## Attachment Check List

Att Doc Num	Name
401905163	FORM 2A SUBMITTED
401908405	WASTE MANAGEMENT PLAN
401908407	ACCESS ROAD MAP
401908409	MULTI-WELL PLAN
401908420	WELL LOCATION PLAT
401929439	LOCATION PICTURES
401929441	NRCS MAP UNIT DESC
401929451	REFERENCE AREA PICTURES
401929454	REFERENCE AREA MAP
401941663	LOCATION DRAWING
401941719	HYDROLOGY MAP
Tatal Attacks 44 E	

Total Attach: 11 Files

	General Comments					
User Group Comment						
OGLA	Operator contacted COGCC to add BMPs to the permit based on discussions with the local govenment. BMPs follow COGCC Rule 604.c.(2) for best management practices.	02/25/201				
Permit	Passed completeness.	02/20/201				
Permit Total: 2 comm		02/20/201				

#### **Public Comments** The following comments were provided by members of the public and were considered during the technical review of this application. No. Comment **Comment Date** 1 This permit, which includes dumping toxic waste onsite near Erie town residents, is unconscionable. 02/22/2019 You are putting families at risk by allowing this irresponsible plan of Anadarko. People are worth more than money. I ask you to cancel this permit for the good of the people of Erie and unincorporated Weld County. Please do what is right! 2 With over 300 wells and the label the most fracked city in the state, do we really need to keep 02/22/2019 approving more? Really? And to include a toxic waste dump? You want us to be the toxic waste dump in Erie? More and more people are choosing NOT to live in Erie because of this. But those of that do live here are forced to live next to toxic polluters? Why? 90% of it is shipped out of state. 3 This proposed Oil and gas activity is alarmingly too close to neighborhoods and schools. Please reject 02/23/2019 this activity from taking place so close to people. The technology exists, move this to a safer spot with less people. 4 Please deny this application. Although it is in unincorporated Weld county, it is still very close to Erie 02/24/2019 neighborhoods and schools and will adversely affect people and the environment. Under no circumstances should drilling much less onsite disposal of drilling fluids and drill cuttings be allowed in this residential area. 5 Would you approve the location if your home or kids school was there? 02/24/2019 6 The mae J site is located close to neighborhoods and schools. And to allow waste disposal onsite 02/25/2019 would be an extreme health hazard for years and years. Do not condemn Erie's youth and families to a future of toxicity and health hazards. Total: 6 comment(s)