

FORM
2A

Rev
08/19

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:

401886061

Date Received:

02/11/2019

Oil and Gas Location Assessment

New Location Refile Amend Existing Location Location#: 324749

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:

324749

Expiration Date:

This location assessment is included as part of a permit application.

CONSULTATION

- This location is included in a Comprehensive Drilling Plan. CDP # _____
- This location is in a sensitive wildlife habitat area.
- This location is in a wildlife restricted surface occupancy area.
- This location includes a Rule 306.d.(1)A.ii. variance request.

Operator

Operator Number: 10598
 Name: SANDRIDGE EXPLORATION & PRODUCTION LLC
 Address: 123 ROBERT S KERR AVE
 City: OKLAHOMA CITY State: OK Zip: 73102

Contact Information

Name: Diane Overbey
 Phone: (405) 429 5828
 Fax: ()
 email: doverbey@sandridgeenergy.com

FINANCIAL ASSURANCE

- Plugging and Abandonment Bond Surety ID (Rule 706): 20170015 Gas Facility Surety ID (Rule 711): _____
- Waste Management Surety ID (Rule 704): _____

LOCATION IDENTIFICATION

Name: Willow View Number: CTB
 County: JACKSON
 Quarter: SWNW Section: 33 Township: 7N Range: 80W Meridian: 6 Ground Elevation: 8173

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: 2141 feet FNL from North or South section line
119 feet FWL from East or West section line

Latitude: 40.535240 Longitude: -106.387669

PDOP Reading: 1.6 Date of Measurement: 10/02/2018

Instrument Operator's Name: James Freshwater

LOCAL GOVERNMENT INFORMATION

County: JACKSON Municipality: _____

Per § 34-60-106 (1)(f)(I)(A), the following questions pertain to the "local government with jurisdiction to approve the siting of the proposed oil and gas location."

The local government with jurisdiction is: _____

Does the local government with jurisdiction regulate the siting of Oil and Gas Locations, with respect to this COGCC application? If the local government has waived its right to precede the COGCC in siting determination, indicate by selecting "NO" here and selecting "Waived" below. Yes No

If yes, in checking this box, I hereby certify that an application has been filed with the local government with jurisdiction to approve the siting of the proposed oil and gas location.

The local government siting permit type is: _____

The local government siting permit was filed on: _____

The disposition of the application filed with the local government is: _____

Additional explanation of local process:

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)	_____	401800370
	416625	_____
	438250	_____
	324754	_____

FACILITIES

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

Wells _____	Oil Tanks* 30	Condensate Tanks* _____	Water Tanks* 30	Buried Produced Water Vaults* _____
Drilling Pits _____	Production Pits* _____	Special Purpose Pits _____	Multi-Well Pits* _____	Modular Large Volume Tanks _____
Pump Jacks _____	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
Gas Scrubbers	5
LP Combustors	5
Heater Treaters	5

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:

All offsite pipelines will be 8" or smaller and be at least schedule 40 steel lines and will meet APD standards. Any onsite location flowlines connected to the offsite pipelines will be 4" or smaller and be at least schedule 40 steel lines and will meet APD standards. All pipelines will be buried to a minimum of 4' below grade.

CONSTRUCTION

Date planned to commence construction: 04/01/2019 Size of disturbed area during construction in acres: 15.50
Estimated date that interim reclamation will begin: 10/01/2019 Size of location after interim reclamation in acres: 7.00
Estimated post-construction ground elevation: 8173

DRILLING PROGRAM

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

Is H₂S anticipated? _____

Will salt sections be encountered during drilling: _____

Will salt based mud (>15,000 ppm Cl) be used? _____

Will oil based drilling fluids be used? _____

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Method: Commercial Disposal

Cutting Disposal: OFFSITE Cuttings Disposal Method: Commercial Disposal

Other Disposal Description:

Beneficial reuse or land application plan submitted? _____

Reuse Facility ID: _____ or Document Number: _____

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

SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: Jack E Haworth

Phone: _____

Address: 910 JCR 34

Fax: _____

Address: _____

Email: _____

City: Walden State: CO Zip: 80480

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: No

The right to construct this Oil and Gas Location is granted by: Surface Use Agreement

Surface damage assurance if no agreement is in place: _____ Surface Surety ID: _____

Date of Rule 306 surface owner consultation _____

If this Form 2A is associated with Drilling and Spacing Unit applications, list docket number(s): _____

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.

	From WELL	From PRODUCTION FACILITY
Building:	_____ Feet	554 Feet
Building Unit:	_____ Feet	4278 Feet
High Occupancy Building Unit:	_____ Feet	5280 Feet
Designated Outside Activity Area:	_____ Feet	5280 Feet
Public Road:	_____ Feet	1962 Feet
Above Ground Utility:	_____ Feet	1171 Feet
Railroad:	_____ Feet	5280 Feet
Property Line:	_____ Feet	304 Feet
School Facility::	_____ Feet	1999 Feet
School Property Line:	_____ Feet	1999 Feet
Child Care Center:	_____ Feet	1999 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, Designated Outside Activity Area, School Facility, and Child Care Center – as defined in 100 Series Rules.
 -For measurement purposes only, Production Facilities should only include those items with an asterisk(*) on the Facilities Tab.

SCHOOL SETBACK INFORMATION

Was Notice required under Rule 305.a.(4)? Yes No

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.
 - 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: _____

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

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.

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.

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: Ca - Cabin sandy loam

NRCS Map Unit Name: Fh - Fluetsch-Tiagos association

NRCS Map Unit Name: Me - Mendenhall loam

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: 10/02/2018

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: 308 Feet

water well: 0 Feet

Estimated depth to ground water at Oil and Gas Location 40 Feet

Basis for depth to groundwater and sensitive area determination:

Location is sensitive due to proximity to drainage and water well, and potential for shallow groundwater.
Depth to groundwater taken from water well permit #273561 -

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 609

WILDLIFE

This location is included in a Wildlife Mitigation Plan

This location was subject to a pre-consultation meeting with CPW held on 06/06/2018

Operator Proposed Wildlife BMPs

No BMP

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 Buffalo Ditch 1-32 (API: 05-057-06463) is being P&A'd; therefore, it is not included in facility count or depicted on drawings.

Location crosses property line; same owner on both sides of line.

Below is a statement indicating the relationship between the Willow View Central Tank Battery (CTB) and Willow View Transfer Facility:

- The Willow View CTB is an amendment to the Loc ID 324749. The Buffalo Ditch 1-32 (API: 05-057-06463) is being plugged and abandoned and the site being converted to a central tank battery (CTB) for surrounding pads, which are also being amended to add wells and update equipment. The reconfiguration is intended to remove equipment from the remote sites and consolidate at the Willow View CTB.
- The existing Buffalo Ditch 2-32H Location (Loc ID 324750) is being converted to the Willow View Transfer Facility. The Buffalo Ditch 2-32H well (API: 05-057-06464) is being abandoned. The Willow View Transfer Station will be used for trucks to on-load oil and/or water produced from oil and gas wells operated by SandRidge Energy at pads in the vicinity of HWY 14. The production from surrounding wells will be collected at the Willow View CTB (Loc ID 324749, Doc #401886061) and piped underground to this transfer station. This transfer station will allow easier access for trucks on and off HWY 14, and will decrease truck traffic, noise, dust and visual intrusion by eliminating trips to the remote locations where SandRidge operates. In turn, this will protect plants, wildlife and all else occupying said area. SandRidge respectfully chose this location due to its pre-disturbed nature and proximity to HWY 14, and with assistance of the land owner.

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

Signed: _____ Date: 02/11/2019 Email: regulatory@ascentgeomatics.com

Print Name: Justin Garrett Title: Regulatory Analyst

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

COGCC Approved: _____ Director of COGCC Date: _____

Conditions Of Approval

All representations, stipulations and conditions of approval stated in this Form 2A for this location shall constitute representations, stipulations and conditions of approval for any and all subsequent operations on the location unless this Form 2A is modified by Sundry Notice, Form 4 or an Amended Form 2A.

COA Type	Description
Planning	Planning: The following COAs will apply: <ul style="list-style-type: none">• Provide Notices as described in the most current version of the Northwest Notification Policy.• Since condensate/oil and produced water storage tanks are planned to be constructed on this centralized tank battery (CBT) facility (and not planned to be constructed on the nearby well pad locations), operator shall submit a scaled as-built drawing (plan view with distances) of this CBT facility location showing onsite flowlines, offsite and onsite pipelines, truck load out (if constructed), and production facilities (oil and produced water storage tanks, separators, combustor, etc.) and the nearby well pad location(s) to which the oil and produced water will be sent from via underground pipelines, showing wellheads, onsite flowlines, offsite pipelines, pumping jacks, and any production facilities, within 60 calendar days of construction of the production equipment on this location.

Best Management Practices

No	BMP/COA Type	Description
1	General Housekeeping	Keep CTB site location, road and pipeline easement free of noxious weeds, litter and debris.
2	Construction	No construction or routine maintenance activities will be performed during periods when the soil is too wet to adequately support construction equipment.
3	Construction	Light sources will be directed downwards and away from occupied structures.
4	Emissions mitigation	Operator shall comply with COGCC's current NOTICE TO OPERATORS: Rule 912. VENTING OR FLARING PRODUCED NATURAL GAS – STATEWIDE.

Total: 4 comment(s)

Attachment Check List

Att Doc Num	Name
2108773	WILLOW VIEW CTB and TRANSFER STATION COMBINED LOCATION DRAWING
2108774	CONST. LAYOUT DRAWINGS
2108775	FACILITY LAYOUT DRAWING and INTERIM RECLAMATION PLAN
2108776	OPERATOR CORRESPONDENCE
401886061	FORM 2A SUBMITTED
401886204	NRCS MAP UNIT DESC
401886205	NRCS MAP UNIT DESC
401917733	ACCESS ROAD MAP
401917735	NRCS MAP UNIT DESC
401917737	HYDROLOGY MAP
401917739	LOCATION DRAWING
401917741	LOCATION PICTURES
401917742	REFERENCE AREA MAP
401917745	REFERENCE AREA PICTURES
401945992	SURFACE AGRMT/SURETY

Total Attach: 15 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	COGCC staff conducted its technical review of this Form 2 Oil and Gas Location Assessment within the context of SB 19-181 and the required Objective Criteria. This Form 2 met Objective Criteria #5.c, #8, #6, and #12.	08/01/2019
DOW	This Form 2A application is to convert an existing pad location into a centralized tank battery to service nearby SandRidge well pads. CPW conducted a pre-consultation onsite review of this location with SandRidge staff on June 6, 2018. Due to the sites proximity to Highway 14 and existing infrastructure, CPW agreed to no seasonal timing restrictions for this facility. The operator will implement its field-wide practices to reduce wildlife impacts (i.e. no open flaring, reduced traffic speeds, bear-proof dumpsters, etc.). Furthermore, this centralized location will help minimize trucking traffic to associated well pads, therefore reducing overall impacts to wildlife in the area. There are no additional wildlife BMPs being recommended at this time. Taylor Elm, March 7, 2019, 12:22 pm	03/07/2019
OGLA	03/06/2019 - location falls within mapped 'Sensitive Wildlife Habitat' area (greater sage grouse production), therefore a CPW wildlife consultation is required; 03/06/2019 - initiated OGLA Form 2A review by Dave Kubeczko; placed the following COAs on the Form 2A - Northwest Notification Policy notification and as-built; 03/07/2019 - passed by CPW since the location will convert from an existing well pad to a centralized tank battery to service nearby SandRidge well pads; CPW conducted a pre-consultation onsite review of this location with SandRidge staff on June 6, 2018; due to the sites proximity to Highway 14 and existing infrastructure, CPW agreed to no seasonal timing restrictions for this facility; the operator will implement its field-wide practices to reduce wildlife impacts (i.e. no open flaring, reduced traffic speeds, bear-proof dumpsters, etc.); furthermore, this centralized location will help minimize trucking traffic to associated well pads, therefore reducing overall impacts to wildlife in the area; there are no additional wildlife BMPs being recommended at this time; 03/21/2019 - onsite by COGCC and operator; 03/25/2019 - completed OGLA Form 2A review by Dave Kubeczko; passed OGLA Form 2A review by Dave Kubeczko with Northwest Notification Policy notification and as-built COAs; place Form 2A "ON HOLD" waiting for additional attachments; passed OGLA Form 2A review by Dave Kubeczko with Northwest Notification Policy notification and as-built COAs; 04/12/2019 - discussed with operator's permitting consultant additional attachments for this location, including Construction Layout Drawings, Facility Layout Drawing, and cultural distances spreadsheet; 04/17/2019 - received and attached additional drawings; and added the Evans 0780 S19 Pad location (Form 2A #401800370) to the 'Related Remote Locations' section; placed Form 2A back into "IN PROCESS".	03/06/2019
Permit	Passed completeness.	02/22/2019
Permit	Returned to draft - Location is not defined on SUA. Corrected by operator.	02/20/2019

Total: 5 comment(s)

Public Comments

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