

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:

401298622

Date Received:

06/30/2017

Oil and Gas Location Assessment

☐ New Location ☐ Refile ☒ Amend Existing Location Location#: 335427

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:

335427

Expiration Date:

08/17/2020

☐ 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: 10531
Name: VANGUARD OPERATING LLC
Address: 5847 SAN FELIPE #3000
City: HOUSTON State: TX Zip: 77057

Contact Information

Name: Julie Webb
Phone: (303) 309-1593
Fax: ()
email: jwebb@progressivepcs.net

RECLAMATION FINANCIAL ASSURANCE

☒ Plugging and Abandonment Bond Surety ID: 20140092 ☐ Gas Facility Surety ID: _____
☐ Waste Management Surety ID: _____

LOCATION IDENTIFICATION

Name: GGU Miller Number: 11D
County: GARFIELD
QuarterQuarter: NWNW Section: 32 Township: 6S Range: 91W Meridian: 6 Ground Elevation: 6005
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: 829 feet FNL from North or South section line
728 feet FWL from East or West section line
Latitude: 39.489227 Longitude: -107.584487
PDOP Reading: 1.9 Date of Measurement: 06/19/2017
Instrument Operator's Name: Jim Kalmon

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 #

FACILITIES

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

| | | | | | | | | | |
|-----------------------|---|----------------------|---|----------------------|--|------------------|---|-------------------------------|--|
| Wells | 2 | Oil Tanks* | 3 | Condensate Tanks* | | Water Tanks* | 1 | Buried Produced Water Vaults* | |
| Drilling Pits | | Production Pits* | | Special Purpose Pits | | Multi-Well Pits* | 1 | Modular Large Volume Tanks | |
| Pump Jacks | | Separators* | 2 | 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 Pipeline | 1 |
| Water pipeline | 1 |

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:

See pipeline and flowline counts above. When possible temporary water pipelines will carry water from storage tanks or water sources to well completion sites. Pipes will be made of flexible and rigid materials (plastic, aluminum and steel); The length will be determined by the distance to the well site to be serviced for the fracing operation. This will greatly minimize the number of truck trips required for the well completions.

CONSTRUCTION

Date planned to commence construction: 09/01/2017 Size of disturbed area during construction in acres: 5.87
Estimated date that interim reclamation will begin: 11/01/2017 Size of location after interim reclamation in acres: 4.12
Estimated post-construction ground elevation: 6005

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: _____ Drilling Fluids Disposal Method: _____

Cutting Disposal: _____ Cuttings Disposal Method: _____

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: MILLER LAND & CATTLE COMP

Phone: _____

Address: 7121 COUNTY ROAD 311

Fax: _____

Address: _____

Email: _____

City: NEW CASTLE State: CO Zip: 81647

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: Surface Use Agreement

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

Date of Rule 306 surface owner consultation 11/16/2004

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: | 1960 Feet | 1693 Feet |
| Building Unit: | 2120 Feet | 1851 Feet |
| High Occupancy Building Unit: | 5280 Feet | 5280 Feet |
| Designated Outside Activity Area: | 5280 Feet | 5280 Feet |
| Public Road: | 4680 Feet | 4515 Feet |
| Above Ground Utility: | 2054 Feet | 1785 Feet |
| Railroad: | 5280 Feet | 5280 Feet |
| Property Line: | 755 Feet | 569 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.
- 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 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: 51. Olney loam, 6 to 12 percent slopes.

NRCS Map Unit Name: 55. Potts loam, 3 to 6 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: 104 Feet

water well: 1848 Feet

Estimated depth to ground water at Oil and Gas Location 100 Feet

Basis for depth to groundwater and sensitive area determination:

Sensitive area was determined by a third party environmental consultant. Nearest water well is permit # 271808. Sensitive area determination was submitted with the form 15.

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 _____

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

The form 2A is being amended to add a multi-use pit. The location is already constructed, there will be a slight increase in total disturbance during construction and operation of the multi-well pit.

This pit has been designed with features to prevent spills or leaks from impacting the environment. The implementation of VNR's Stormwater Management Plan, CDPS General Permit COR-03000(Certification Number COR-039752; Attachment A) and the operational policies and procedures described in this supplement are designed to minimize risk to the environment and accommodate rapid response in the event of an accidental spill or release of fluids. All transfers of water into and out of the pit are monitored by personnel during the entire transfer operation to ensure adequate freeboard (minimum of 2 feet) is maintained in the pit at all times. VNR has a spill response trailer staged at a location near all of our operations to facilitate response to any spills that may occur. The double lined pit will be installed with a leak detection system and this system will be checked at least once per week. In the event that a leak is detected, the pit will be drained as quickly as possible so that the source of the leak can be determined.

Since the facility is within Elk and Mule deer concentration area, it is considered to be in a sensitive area. All material used in the determination are included in Attachment D. The pit will be fenced in accordance with the recommendations of the Colorado Division of Parks and Wildlife, specifically –

1. Minimum 7 foot perimeter fence constructed of wire mesh.
2. Installation of chicken wire around the lower portion of the fence to prevent small mammals from entering the pit with about 1 foot of the wire buried under ground.
3. Installation of netting, as necessary, to prevent a loss of waterfowl.

The pit will be double lined and constructed as described above in 904.c and include a leak detection system. The pit has been designed with features that significantly reduce the potential for the facility to impact nearby surface and ground water.

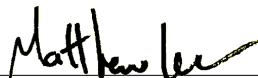
I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: _____ Date: 06/30/2017 Email: jwebb@progressivepcs.net

Print Name: Julie Webb Title: Senior 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: 8/18/2017

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 |
|----------|--|
| | <p>Operator shall submit a revised Hydrology Map that meets the requirements of the Form 2A Rules and the Form 2A Attachment Guidance for Hydrology Maps within 14 days of approval of the Form 2A and Form 15.</p> <p>Prior to first use of the multi-well pit, operator shall submit and receive approval of an E&P waste management plan per Rule 907.a.(3).</p> <p>Prior to first use of the multi-well pit, operator shall submit via Form 4 Sundry an Operating Plan which lists locations and wells that this multi-well pit will be used to support and facilitate completions; the Operating Plan shall be updated annually as needed.</p> <p>Per Rule 902.e, this multi-well pit is permitted for maximum of three (3) years use for storage, recycling, reuse, treatment, or disposal of E&P waste or fresh water, as applicable. The three year time clock will start from the date of first use after hydrostatic testing and be based on submittal of the Form 42 providing that date. The operator shall cease using the pit after three (3) years use and immediately begin pit closure in accordance with Rule 905.</p> <p>In addition to the notifications required by COGCC listed in the Northwest Notification Policy and Rule 316C., operator shall notify the COGCC 48 hours prior to start of hydrostatic test, start of first use of pit for operations, onsite and offsite pipeline testing (any permanent buried or temporary surface lines used for transferring fluids to or from this multi-well pit) using the Form 42 (as described in Rule 316C.m. Notice of Completion of Form 2/2A Permit Conditions).</p> <p>In addition to the notifications required by COGCC listed in the Northwest Notification Policy (Notice of Intent to Construct a New Location and Notice of Intent to Commence Hydraulic Fracturing Operations) and Rule 316C. COGCC Form 42. FIELD OPERATIONS NOTICE (a. Notice of Intent to Conduct Hydraulic Fracturing Treatment and c. Notice of Construction or Major Change); operator shall notify the COGCC 48 hours prior to start of pit construction, pit liner installation, start of hydrostatic test, start of first use of pit for operations, pipeline testing, onsite and offsite pipeline testing (any permanent buried or temporary surface lines used for hydraulic stimulation and/or flowback operations), and start of hydraulic stimulation operations at nearby well pad locations using the Form 42 (as described in Rule 316C.m. Notice of Completion of Form 2/2A Permit Conditions). The appropriate COGCC individuals will automatically be email notified.</p> <p>Prior to placement of any temporary surface pipelines (poly or steel), operator will submit a Form 4 Sundry Notice indicating the proposed route of the temporary surface pipelines and any pump stations along the route.</p> |
| | <p>The access road from the public road to the multi-well pit location will be maintained as to not allow sediment to migrate from the access road to nearby surface water or any drainages leading to surface water.</p> <p>Strategically apply fugitive dust control measures to reduce fugitive dust and coating of vegetation and deposition in water sources.</p> |

| | |
|--|--|
| | <p>Operator has indicated that fluid transfer from the pit to nearby well locations will be done entirely through existing permanent pipelines, or possibly temporary surface pipelines. Operator will not be allowed to load or unload produced water to or from the pit using trucks. Vacuum trucks may be utilized for use in skimming operations and in the final draining process prior to pit closure, but not utilized in the normal operation of the pit.</p> <p>Operator must submit an as-built drawing (plan view and cross-sections) of the multi-well pit and the oil and gas location (including all tanks and other pit operations equipment) within 60 calendar days of re-construction of the location, pit, and any operating equipment.</p> <p>After installation of the uppermost liner and prior to operating the pit, the synthetic liner (s) integrity shall be tested to the operating capacity of the pit facility (not to exceed the 2-foot freeboard requirement). The operator shall monitor the pit for leaks for a period of 72 hours prior to either draining the pit or commencing operations. Operator shall notify the COGCC 48 hours prior to start of the hydrotest using the Form 42. Hydrotest monitoring results must be maintained by the operator for the life of the pit and provided to COGCC prior to using the pit via a Form 4 Sundry.</p> <p>The multi-well pit must be fenced and netted. The operator must maintain the fencing and netting until the pit is closed. The fencing shall be placed a minimum of 1-foot from the pit liner anchor trench.</p> <p>Operator will use adequately sized secondary containment devices for all chemicals and/or hazardous materials stored or used on location.</p> <p>Operator will implement measures to ensure that adequate separation of hydrocarbons from the influent occurs to prevent accumulation of oil on the surface of stored completions fluids. Operator shall also employ a method for monitoring buildup of phase-separated hydrocarbons on the surface of stored fluids.</p> <p>Any oil (other than de minimis amounts) observed on the surface of completions fluids must be removed in accordance with Rule 902.c.</p> |
| | <p>Potential odors associated with the mutli-well pit operations must be controlled/mitigated.</p> |

Operator shall pressure test temporary surface or permanent buried pipelines (including flowlines from the existing tank battery to the multi-well pit [if constructed] and any temporary surface lines used for fluid transfer between this location and other oil and gas locations) in accordance with Rule 1101.e.(1) prior to putting any pipeline into initial service.

Operator must routinely inspect the entire length of all surface pipelines to ensure integrity. Operator shall conduct daily inspections of surface pipeline routes for leaks during active transfer of fluids and implement best management practices to contain any unintentional release of fluids along all portions of the surface pipeline route where temporary pumps and other necessary equipment are located. Inspections shall be conducted by viewing the length of the pipeline; operator will endeavor to minimize surface disturbance during pipeline monitoring. In addition, pump stations along the surface pipeline route will be continuously monitored when operating in order to swiftly respond to such a failure.

Operator will implement BMPs necessary to mitigate a potential for a release of fluids to impact streams, intermittent streams, ditches, and drainage crossings. For surface pipelines at these crossings, operator will ensure appropriate containment by either 1) installing over-sized pipe "sleeves" which extend the length of the crossing and beyond to adequately sized catchment basins or appropriately designed divergent trenches to prevent a spill of fluids from reaching the stream or drainage; 2) installing over-sized pipe "sleeves" which extend the length of the crossing and installing shut off valves on either side of crossing instead of catchment basins; or 3) develop an alternative means for spill control and containment.

To reduce surface disturbance and minimize fragmentation of wildlife habitat, operator shall utilize, to the extent practical, existing public roads, private roads, and access roads, and/or existing pipeline right-of-ways, when placing/routing the temporary surface pipelines.

Best Management Practices

| <u>No</u> | <u>BMP/COA Type</u> | <u>Description</u> |
|-----------|--|---|
| 1 | Wildlife | <ul style="list-style-type: none"> • Reduce visits to well-sites through remote monitoring (i.e. SCADA) and the use of multifunction contractors, where practicable. Install exclusionary device to prevent bird and other wildlife access to equipment stacks, vents and openings. • Establish policies to protect wildlife (e.g. no firearms, no dogs on location, no feeding of wildlife, etc.) • Promptly report spills that could affect wildlife to the Water Quality Control Division of CDPHE and CDOW • Avoid location staging, refueling, and storage areas within 300 feet, of any reservoir, lake, wetland, or natural perennial or seasonal flowing stream or river. <p>INFRASTRUCTURE LAYOUT WILDLIFE PROTECTION MEASURES</p> <ul style="list-style-type: none"> • Implementing fugitive dust control measures • Limit parking to disturbed areas as much as possible <p>DRILLING AND PRODUCTION OPERATION WILDLIFE PROTECTION MEASURES</p> <ul style="list-style-type: none"> • Reduce visits to well-sites through remote monitoring (i.e. SCADA) and the use of multifunction contractors, where practicable. • Exclusionary device to prevent birds and other wildlife access to equipment stacks, vents and openings. • Establish company guidelines to minimize wildlife mortality from vehicle collision on roads. <p>INVASIVE/NON-NATIVE VEGETATION CONTROL</p> <ul style="list-style-type: none"> • Educate employees and contractors about noxious and invasive weed issues. <p>RESTORATION, RECLAMATION AND ABANDONMENT</p> <ul style="list-style-type: none"> • Avoid aggressive non-native grasses and shrubs in mule deer and elk habitat restorations. • Revegetate with seed mixtures that are of the surface owner's preference that are compatible with both livestock and wildlife or BLM approved seed mixes. |
| 2 | Storm Water/Erosion Control | The soil stockpiles areas will be addressed during the pre-construction phase and BMPs such as compacted berms, diversion ditches, check dams and sediment traps will be utilized. This location will be managed to maintain compliance with our CDPHE Stormwater Permit and any COGCC Rules applicable to stormwater. |
| 3 | CPW-Wildlife - Minimization-Deer and Elk | The operator agrees to effectively fence and net fluid pits to exclude all wildlife, including small mammals and birds. |

Total: 3 comment(s)

Attachment Check List

| <u>Att Doc Num</u> | <u>Name</u> |
|--------------------|--|
| 1009840 | CORRESPONDENCE |
| 1009841 | HYDROLOGY MAP |
| 2108185 | LOCATION DRAWING |
| 2108186 | CORRESPONDENCE |
| 2108190 | EARTHEN PIT PERMIT - SUPPLEMENTAL INFORMTION |
| 2108192 | REFERENCE AREA MAP |
| 2108193 | REFERENCE AREA PICTURES |
| 2168268 | SURFACE AGRMT/SURETY |
| 401298622 | FORM 2A SUBMITTED |
| 401298633 | NRCS MAP UNIT DESC |
| 401328348 | ACCESS ROAD MAP |
| 401328360 | FACILITY LAYOUT DRAWING |
| 401328376 | CONST. LAYOUT DRAWINGS |
| 401328391 | MULTI-WELL PLAN |
| 401328399 | LOCATION PICTURES |

Total Attach: 15 Files

General Comments

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|-------------------|--|---------------------|
| OGLA | Changed commence construction date from 8/18/17 to 9/1/17 at request of operator | 08/18/2017 |
| OGLA | Attached revised Hydrology Map provided by operator on 8/18/18. Changed distance to nearest downgradient surface water from 318 feet to 104 feet - distance to intermittent stream. | 08/18/2017 |
| OGLA | Contacted operator on 8/18/17 regarding production facility count. Operator provided updated equipment counts - entered on Form, correspondence attached 01009840 | 08/18/2017 |
| Permit | Location lies within Gibson Gulch II Federal Unit COC 052447X. Attached SUA from operator and corrected Surface & Minerals to reflect SUA instead of Bond. Removed Bond ID number. Final review complete. | 08/08/2017 |
| OGLA | Initiated OGLA Form 2A and Form 15 review on 07-25-17/Completed OGLA Form 2A and Form 15 review on 08-16-17 by Dave Kubeczko; requested acknowledgement and concurrence of notification, double-lined pit, fencing and netting, as-builts, sediment and dust control access road/pad, odor control, secondary containment, pit hydrostatic test, truck loading/unloading, pit closure, 3-year max, pipeline testing, pipeline inspection, and temporary surface pipeline location Sundry COAs from operator on 08-03-17; received acknowledgement and concurrence of COAs from operator on 08-04-17; revised: Date planned to commence construction: from 08/01/2017 to 08/18/2017; corrected distances from Wellhead to Public Road from 5280' to 4680' and from Production Facility to Public Road from 5280' to 4515, based on COGCC's review of COGCC's Online GIS Map, 2015 Aerial Photo layer and Roads layer; based on proximity of the well pad to downgradient surface water (streams and/or intermittent streams located 318' to the north based on COGCC's review of COGCC's 2015 Aerial Photo Layer and Topo layer), COGCC has revised the distance to nearest downgradient surface water from 1480' to 318' and this location has been designated a "sensitive area"; passed by CPW on 07-17-17 with the operator submitted wildlife BMPs and recommendation to fence and net the pit being acceptable to minimize impacts to wildlife and to exclude all wildlife (i.e. small mammals, birds, etc.); attached revised Hydrology Map, Reference Area Map, Reference Area Pictures, Supplemental Pit Information; revise construction disturbance from 5.30 acres to 5.87 acres; revised size of location at interim reclamation from 5.30 to 4.12 acres;; passed OGLA Form 2A and Form 15 review on 08-17-17 by Dave Kubeczko; notification, double-lined pit, fencing and netting, as-builts, sediment and dust control access road/pad, odor control, secondary containment, pit hydrostatic test, no truck loading/unloading, pit closure, 3-year max, pipeline testing, pipeline inspection, and temporary surface pipeline location Sundry COAs. | 08/03/2017 |
| Permit | Preliminary review complete. | 08/01/2017 |
| LGD | The proposed change to add a pit may require a county water impoundment Land Use Change Permit. Operator should confirm with county planning staff. | 07/31/2017 |
| DOW | This Form2A permit is to amend an existing location by adding a multi-use fluid pit to the existing pad. There will be no additional disturbance outside the footprint of the existing pad. In addition to the BMPs provided by the operator, CPW has included a recommendation to fence and net the fluid pit to exclude all wildlife (i.e. small mammals, birds, etc.). By: Taylor Elm, July 17, 2017, 11:09 a.m. | 07/17/2017 |
| Permit | Form passes completeness. | 07/11/2017 |

Total: 9 comment(s)