



Town of Keenesburg  
Oil & Gas Special Use Permit Application  
DP412/425S

**Location Name: Y05-13 Multi**

Township 2 North, Range 64 West, 6<sup>th</sup> P.M.

Section 5: SW/4 SW/4

**Location Name: Y05-15 Pad**

Township 2 North, Range 64 West, 6<sup>th</sup> P.M.

Section 5: SW/4 SE/4

**Location Name: Y07-02 Pad**

Township 2 North, Range 64 West, 6<sup>th</sup> P.M.

Section 7: NW/4 NE/4

**Location Name: Y07-03 Pad**

Township 2 North, Range 64 West, 6<sup>th</sup> P.M.

Section 7: NE/4 NW/4



## 1.0 INTRODUCTION AND BACKGROUND

Chevron (Noble Energy) is proposing oil and gas operations on 4 well pads located within the Town of Keenesburg (see enclosed map). These well pads are in an area that was annexed into the Town prior to the Town adopting oil and gas regulations. The locations have been approved by both the Colorado Oil & Gas Conservation Commission (COGCC) and Weld County, as detailed below. Two of these well pads were previously constructed and will be expanded back to the limits of the disturbance areas approved by the COGCC and Weld County to accommodate the drilling and completion of additional wells. The other two well pads were not constructed previously. The Y05-13 location was permitted by the COGCC and Weld County as a combination well pad and production facility, however, only the production facility portion has been constructed and is operational. These well pads are located on three parcels all owned by Pioneer HoldCo, LLC, and Noble has executed surface use agreements (SUA's) with Pioneer to authorize the proposed development. Five horizontal wells will be drilled from each of the well pads.

These locations are part of Noble's approved COGCC Mustang Comprehensive Drilling Plan (CDP 11984) and the associated Weld County Mustang Comprehensive WOGLA. Both the CDP and the Comprehensive WOGLA contain numerous commitments and requirements that are common to all locations within the Mustang project. In addition, Noble has approved site-specific COGCC Form 2A's and supplemental WOGLAs for these well pads as outlined below. Copies of the COGCC and Weld County approvals are provided in Exhibits A and B, respectively.

LOCATION	COGCC FORM 2A	WELD COUNTY WOGLA
Y05-13 Multi (Well Pad & Facility)	Location ID 459235, exp. 10/2024	WOGLA19-0140, exp. 6/2025
Y05-15 Pad	Location ID 459234, exp. 10/2024	WOGLA19-0139, exp. 6/2025
Y07-02 Pad	Location ID 459203, exp. 10/2024	WOGLA19-0172, exp. 6/2025
Y07-03 Pad	Location ID 459220, exp. 10/2024	WOGLA19-0173, exp. 6/2025

The COGCC Form 2's (aka, APD's) for the wells to be drilled from these locations have also been approved.

Noble's CDP and Comprehensive WOGLA allowed planning to be done at a landscape level which results in more efficient placement of well pads, production facilities, and infrastructure. One of the key efficiencies is the ability to consolidate the production from numerous well pads into a single production facility. All four of the proposed well pads will (and have in the case of the existing wells on the Y07-02 and Y07-03 Pads) produce to the Y05-13 Multi production facility. Pipeline infrastructure will be installed from the well pads to the production facility and from the facility to the gathering system to eliminate tanks on both the well pads and the production facility and truck traffic



needed to transport liquids. During completion operations, all flowback will be piped to the production facility which significantly reduces sources of emissions associated with flowback and the need for trucks to transport the liquids produced. Water used during completions will be piped to each well pad via temporary lay-flat lines. Once the wells on each pad go into production, the amount of equipment on the well pad will be limited and all production equipment will be on the Y05-13 Multi facility. The Y05-13 Multi facility is electrified which eliminates the noise and emissions associated with diesel/natural gas fired generators, compressors and other equipment.

Noble intends to start construction on these well pads during September 2022 with the bulk of the construction on all 4 pads being completed by the end of November 2022. Noble currently plans to utilize two drilling rigs with one drilling the wells on the Y05-13 and Y05-15 pads and the other on the Y07-02 and Y07-03 pads. Drilling on the Y05-13 and Y05-15 pads is estimated to start on approximately November 3, 2022, and be completed on approximately December 21, 2022. Drilling on the Y07-02 and Y07-03 pads is estimated to start on approximately November 24, 2022, and be completed on approximately January 11, 2023. The drilling rig on the Y05-13 and Y05-15 pads is currently planned to be electrified. Completion operations will commence shortly after drilling has been completed and is estimated to occur from January through March 2023. All completions will utilize a quiet frack fleet.

These locations are not located within any wildlife High Priority Habitats as designated by Colorado Parks and Wildlife and defined in COGCC Rule 1202. There are no U.S. Fish and Wildlife Service designated wetlands in the vicinity. A floodplain associated with Box Elder Creek is located between the Y05-13 Multi and Y05-15 Pads, but the pads are located outside the floodplain. Noble has an approved Flood Hazard Development Permit (FHDP) from Weld County for the installation of the flowlines between the two locations (Exhibit C) and is in the process of amending this permit to allow the placement of four temporary power poles in the floodplain to facilitate getting electrical power to the Y05-15 Pad for the drilling rig.

## **2.0 APPLICATION REQUIREMENTS**

The following sections provide the required application elements identified in Section 16-8-40. of the Town's Municipal Code. As indicated above, Noble has obtained approvals for these locations from both COGCC and Weld County and the information from those approvals is provided with this application as being equivalent to many of the Town's requirements.

### **Site Plans**

The requirements of Section 16-8-40.(1) are satisfied by the following maps provided in Exhibit D for each location –

- Grading plan
- Facility layout drawing



All parcels located within four hundred (400) feet of each of the proposed locations is owned by Pioneer HoldCo, LLC, who is the executor of the Surface Use Agreements (SUAs) for these locations. Pioneer HoldCo, LLC is in the process of obtaining approval for a subdivision on these parcels from the Town of Keenesburg and has identified the proposed oil and gas locations on their subdivision plats.

### **Vicinity Maps**

The requirements of Section 16-8-40.(2) are satisfied by the following maps provided in Exhibit E –

- Hydrologic Features Map
- Existing Oil and Gas Wells Map
- Location Maps for each location

To drill and complete new horizontal wells requires that many existing oil and gas wells be plugged and abandoned (P&Ad) prior to drilling or completions, as detailed further below. Removing these older wells and the associated production facilities provides numerous benefits by eliminating emission sources and returning surface lands to other productive uses. At the current time, a total of 25 existing wells are planned to be P&Ad as part of this project.

### **Narrative**

The following narrative is provided in response to the requirements of Section 16-8-40.(3).

Name and address of operator –

Chevron/Noble Energy  
Attention – Doug Dennison  
2115 117<sup>th</sup> Ave  
Greeley, CO 80634

Name and Address of Surface Owner –

Pioneer HoldCo, LLC  
Attention – Joel Farkas  
9033 E. Easter Place, Suite 112  
Centennial, CO 80112

Pioneer HoldCo, LLC has executed SUA's with Noble for the proposed locations.



## ***Operating Plan***

The development of these locations will involve the following basic steps that are summarized in the following paragraphs –

- Civil Construction
- Drilling
- Well Completions
- Production
- Interim Reclamation
- Decommissioning
- Final Reclamation

### ***Civil Construction***

Civil construction is the process of constructing the access roads, well pads, and flowlines/pipelines necessary to support the development of the mineral resources to be accessed from these well pads. In general, the process Noble follows for this construction is to install the necessary stormwater control measures; remove and stockpile topsoil; excavate and grade the pads to the desired configuration; and stabilize the topsoil and other soil stockpiles. All construction work will be guided by the grading plans provided in Exhibit D, and the engineering consultant that prepared these plans provides electronic construction files that are uploaded to survey and construction equipment to ensure that the pads are constructed in accordance with the designs. As noted above, the Y07-02 and Y07-03 Pads were previously constructed and are the site of existing wells. The previously reclaimed portions of these pads will be pulled back using the same process as outlined above to the approved extent of the disturbance area as outlined in the COGCC and Weld County approvals.

Sound walls will be installed at the appropriate locations around the perimeter of each well pad during the civil construction phase. Wells that lie within the path of the proposed wells will be P&Ad during the civil construction phase so that there is no risk of the new well colliding with the existing wells.

### ***Drilling***

Once a well pad is constructed, the drilling rig will mobilize to the location. In some cases, Noble will utilize a smaller rig to drill the rat and mouse holes prior to the larger drilling rig moving in. Once the drilling rig and support equipment has been mobilized to the location and set up, drilling begins with the surface section of the well. This portion of the drilling is designed to protect surface waters and is generally drilled with air or fresh water. Once the surface section has been drilled to the desired depth, surface casing is inserted into the borehole and cemented in place. Downhole logging tools are used to verify that the cement has covered the entire annulus between the casing and the borehole wall prior to commencing additional drilling.



After the surface casing and cement has been verified, the rig will begin drilling the remainder of the planned well. Specialized blow out prevention equipment (BOPE) will be installed and tested prior to drilling below the surface section. This equipment is designed to control the pressures encountered during drilling so that there is not an uncontrolled release of pressure and gas/fluids from the well. This drilling will be vertical or some slight deviation from vertical down to the point where the drill string is turned to near horizontal. At this point, drilling continues through the target formations to the desired end point at which point, the drill string is removed from the borehole. Again, the entire length of the well will be cased and cemented prior to completions operations. Once all of the wells are drilled, cased and cemented, the drilling rig will demobilize from the location and the completions crews will mobilize.

### *Well Completions*

Well completions consist of those activities necessary to enable the oil and gas in the targeted formations to flow into the well and to the surface. These activities consist of stimulating the formations by hydraulic fracturing and then placing production tubing into the well to facilitate the flow of the produced gas and fluids to the surface. Prior to starting completions, any existing wells that pose a risk to safe and efficient completions will be P&Ad or remediated to minimize this risk. Once the completions crew has mobilized to the location, the first step of the well stimulation process will be to perforate (“perf”) the casing within the target formations to allow the hydraulic-fracturing fluids to penetrate into the formations and, subsequently, the produced gas fluids to flow into the well. This perforation process involves lowering specialized tools into the well to specified depths where charges are set off that produces perforations in the casing, cement and into the rock outside the borehole.

After the well has been perforated, the hydraulic-fracturing process commences. As noted above, Noble will be using a quiet fleet for this process, and these fleets have been shown to be significantly quieter than the traditional fracturing fleets. This process consists of pumping a fluid (largely water and sand or other proppant with small amounts of chemicals added to reduce friction, control biologic processes, etc.) at high pressure down the well, out the perforations and into the formations. This process induces very small fractures in the rock to facilitate the flow of gas and fluids from the rock formations into the borehole. When the induced pressure from the hydraulic-fracturing equipment is removed, the fluid flows back into the well while the sand or other proppant remains to keep these small fractures open. The hydraulic fracturing will be performed in several stages starting at the end (“toe”) of the well with each subsequent stage being isolated from the previous stages by setting plugs in the well. Once the fracturing process has been completed, these plugs will be drilled out.

After the plugs have been drilled out, production tubing – a smaller diameter pipe used to transport the gas and fluids to the surface – will be installed in the well. The flowback process, the process of allowing the hydraulic fracturing fluid and residual sand to flow to the surface, will commence. Traditionally, this flowback process involved installation of equipment and tanks on the well pad to control and contain the flowback. The



traditional process resulted in many potential sources of emissions and the need for a large volume of truck traffic to transport these fluids from the well pad. Noble's modern flowback process, facilitated by the construction of flowlines from the well pad to the production facility prior to flowback, results in all these fluids being transported to the production facility via the flowlines. The flowback is then processed in the production equipment on the facility location so that residual sand is captured, hydraulic-fracturing fluids are separated and sent via underground pipelines to recycling or disposal facilities, and any produced oil and gas are sent directly into the gathering system. This process has eliminated numerous sources of emissions and truck traffic and enables Noble to capture oil and gas early in the process. Once the bulk of the hydraulic fracturing fluids have been removed from the well, the production process begins.

### *Production*

Because Noble installs flowlines from the well pads to the production facility prior to the flowback process, there is a limited amount of equipment necessary on each well pad. In general, this equipment will consist of the well heads, manifolds for the flowlines, flowmeters, and small meter buildings. For the four proposed pads, all the production will flow to the Y05-13 Multi production facility. At this facility, equipment will separate the flow from each well pad into three components – produced water, natural gas, and oil. The produced water will be directed into underground pipelines where it will be transported to recycling or disposal facilities. Noble's production facilities are designed so that the natural gas and oil are processed to the required gathering system specifications for transport. As a result, storage tanks and the truck traffic normally associated with transporting produced water and oil from the facility have been eliminated.

During the production period for the wells (approximately 30 years), a small workover rig may need to be mobilized to the well pads occasionally to perform maintenance or other operations but long-term traffic to and from the well pads will consist of occasional pick-up trucks for lease operators who monitor the wells on each location. All of Noble's production operations are monitored remotely from our Operations Control Center (OCC) in Greeley and from other locations so that any off-normal events can be immediately identified and resolved. This remote monitoring also allows wells or the production facility to be remotely shut-in if required.

### *Interim Reclamation*

After the wells have gone into production, the well pad locations will undergo interim reclamation. This process involves reducing the size of the location to the smallest size necessary to facilitate safe operations and provide room for future workover rig operations. Stockpiled soil is placed on areas not needed for future operations and is graded to match the pre-disturbance contours to the extent possible, stockpiled topsoil is placed on these areas, and these areas are reseeded in accordance with the surface owner's desires. The reclaimed areas are monitored on a regular basis and weed



control, reseeding or other operations are conducted until the revegetation standards established by the COGCC and Weld County have been met.

### *Decommissioning*

At the end of the life of the wells and production facility, all of the proposed locations will be decommissioned in accordance with the applicable State, County and Keenesburg regulations. In general, the wells will P&Ad; all surface equipment will be removed from the well pads and facility; flowlines and pipelines will be either abandoned in place or removed; any required remediation of spills or releases will be conducted; and the location will be readied for final reclamation.

### *Final Reclamation*

The final reclamation process mirrors the interim reclamation process described above, except final reclamation occurs over the entire area of the well pad or facility. Again, the reclaimed areas are monitored, and any remedial actions taken until such time that the reclamation meets the applicable standards for release.

### ***Permits and Approvals***

The previously approved COGCC Form 2As and Weld County WOGLAs for these locations are provided in Exhibits A and B, respectively. The approved FHDP from Weld County is provided in Exhibit C and is in the process of being amended to allow installation of four temporary power poles within the floodplain.

Noble is in the process of finalizing a road maintenance agreement with the Town for the access roads proposed to be utilized for this project (Exhibit F). Exhibit G provides a traffic narrative for the project.

### ***Emergency and Fire Response Plan***

A comprehensive emergency response plan was provided to Weld County as part of the Comprehensive WOGLA process, and this plan was reviewed and approved by the Weld County Office of Emergency Management (OEM). For each of the site-specific WOGLA approvals for the proposed locations, Noble provided Tactical Response Plans (TRPs) to OEM. These TRPs were provided by OEM to the Southeast Weld Fire Protection District for review prior to approval. Copies of the TRPs are provided in Exhibit H.

### ***Weed Control***

Invasive plants will be managed by performing a site assessment during the spring and upon completion of the first growing season after interim reclamation. This assessment will identify and inventory any/all invasive plants on each location. The assessment will include GPS coordinates and maps detailing the location of the invasive



plants. Management will be performed by either mowing or spraying and in some rare occasions both methods may be necessary. Any spraying conducted will be coordinated with the landowner. Routine inspections throughout the life of the pads will also aid in identifying when weed mitigation is needed.

### ***Sanitary Facilities***

Portable toilets will be provided during all construction, drilling and completions operations and will be serviced on a regular basis by a company under contract to Noble. During these operations, all portable toilets will be screened from adjacent properties or public rights-of-way by the sound walls constructed on the location or by fences or other equipment.

Once the wells go into production, there will not be personnel permanently onsite so no sanitary facilities will be needed.



**EXHIBIT A**

**COGCC APPROVED FORM 2A'S**



FORM  
2A

Rev  
04/18

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:

401775208

Date Received:

10/04/2018

Oil and Gas Location Assessment

☒ New Location ☐ Refile ☐ Amend Existing Location Location#: \_\_\_\_\_

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:

**459235**

Expiration Date:

**10/28/2024**

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

CONSULTATION

- ☒ This location is included in a Comprehensive Drilling Plan. CDP # 11984
- ☐ 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: 100322

Name: NOBLE ENERGY INC

Address: 1001 NOBLE ENERGY WAY

City: HOUSTON State: TX Zip: 77070

Contact Information

Name: Holly Hill

Phone: (303) 228 4232

Fax: ( )

email: CDPNBLPermitting@nblenergy.com

FINANCIAL ASSURANCE

- ☒ Plugging and Abandonment Bond Surety ID (Rule 706): 20030009 ☐ Gas Facility Surety ID (Rule 711): \_\_\_\_\_
- ☐ Waste Management Surety ID (Rule 704): \_\_\_\_\_

LOCATION IDENTIFICATION

Name: Y05-13 Number: Multi

County: WELD

Quarter: SWSW Section: 5 Township: 2N Range: 64W Meridian: 6 Ground Elevation: 4855

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: 398 feet FSL from North or South section line

1119 feet FWL from East or West section line

Latitude: 40.161190 Longitude: -104.580650

PDOP Reading: 1.6 Date of Measurement: 09/22/2018

Instrument Operator's Name: Dominick Davis



## 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)

401776706

401776720

401775211

## FACILITIES

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

Wells	5	Oil Tanks*	4	Condensate Tanks*		Water Tanks*	4	Buried Produced Water Vaults*	2
Drilling Pits		Production Pits*		Special Purpose Pits		Multi-Well Pits*		Modular Large Volume Tanks	
Pump Jacks	5	Separators*	5	Injection Pumps*		Cavity Pumps*		Gas Compressors*	5
Gas or Diesel Motors*		Electric Motors		Electric Generators*	4	Fuel Tanks*		LACT Unit*	4
Dehydrator Units*		Vapor Recovery Unit*	7	VOC Combustor*	4	Flare*		Pigging Station*	

## OTHER FACILITIES\*

**Other Facility Type**

**Number**

Pump	5
Gas Lift Meter Building	2
Knockout Vessel	2
Heater Treater	4
Meter Building	13
Scrubber	14
Oil Surge Drum	1
Maintenance Tank	1
Launcher/Receiver	2
Water Pump Skid	2
IA Skid	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:

Twenty-eight (28) 2-4" Steel Three Phase Flowlines, Eight (8) 2-4" Steel Gas Lift Lines, Three (3) 3-8" Temporary Poly Line for Fresh Water, Two (2): 8-16" Steel Oil Lines, Two (2): 4-8" Steel Produced Water Lines, Two (2): 8-16" Steel Gas Gathering Line

## CONSTRUCTION

Date planned to commence construction: 01/01/2019 Size of disturbed area during construction in acres: 21.10

Estimated date that interim reclamation will begin: 07/01/2019 Size of location after interim reclamation in acres: 14.60

Estimated post-construction ground elevation: 4855

## 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:

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: Pioneer HoldCo LLC

Phone:                                     

Address: 9033 E Easter Pl, Ste 112

Fax:                                     

Address: Attn. Joel Farkas

Email:   

City: Centennial State: CO Zip: 80112-2105

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                                     

## 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:	2149 Feet	1285 Feet
Building Unit:	2676 Feet	1693 Feet
High Occupancy Building Unit:	5280 Feet	5280 Feet
Designated Outside Activity Area:	5280 Feet	5280 Feet
Public Road:	5280 Feet	5280 Feet
Above Ground Utility:	503 Feet	285 Feet
Railroad:	5280 Feet	5280 Feet
Property Line:	396 Feet	179 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: 70 - Valent sand, 3 to 9 percent slopes

NRCS Map Unit Name: 49- Osgood sand, 0 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: 09/22/2018

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: 214 Feet

water well: 653 Feet

Estimated depth to ground water at Oil and Gas Location 27 Feet

Basis for depth to groundwater and sensitive area determination:

Location is sensitive due to proximity to surface water, distance to nearest domestic water well and depth to ground water.  
Depth to groundwater taken from permit #14181.

Is the location in a riparian area: ☒ No ☐ Yes

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

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

zone:

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

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

☒ Federal (FEMA)

☒ State

☐ County

☐ Local

☐ Other

## GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 318A

## WILDLIFE

☐ This location is included in a Wildlife Mitigation Plan



☐ This location was subject to a pre-consultation meeting with CPW held on \_\_\_\_\_

## 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 Stormwater management plans (SWMP) are in place to address construction, drilling, and operations associated with Oil & Gas development throughout the state of Colorado in accordance with Colorado Department of Public Health and Environment (CDPHE) and General Permit No.'s: COR03N578; COR03N579; COR03N580; and COR03O059.

Spill Prevention Control and Countermeasures (SPCC) plans are in place to address any possible spill associated with Oil & Gas operations throughout the state of Colorado.

The attached Waste Management Plan contains information regarding the management and disposal of water-based fluids and cuttings.

In addition to the equipment listed above, ancillary equipment may be used on the production site temporarily, and may include Tanks, VOCs, Water Coolers, Heat Exchanger and Scrubbers, depending on the volume, temperature and nature of produced water.

Field observation has confirmed that the building visible on the 2017 COGCC Aerial Map approximately 1250' west of this proposed location in S. 6 is no longer present.

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

Signed: \_\_\_\_\_ Date: 10/04/2018 Email: CDPNBLPermitting@nblenergy.com

Print Name: Ann Feldman Title: Regulatory Manager

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: 11/27/2018

## 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

	Operator shall post this Form 2A at the Location at all times during construction, drilling and completion activities.
	This Form 2A and related Form 2s are approved subject to the Noble Mustang CDP accepted by Commission Order # 1-228.



## **Best Management Practices**

No	BMP/COA Type	Description
1	Planning	<p>Lighting on location is considered temporary and will be used during recompletion activities. Permanent lighting will not be installed and utilized during normal production operations. Temporary lighting will be directed downward, inward, and shielded towards location to avoid glare on public roads and Building Units within 1,000 feet. Lighting will be turned off when practical, i.e., no operations being conducted.</p> <p>On production facilities some lighting will be installed on timers; permanent lighting may be used when necessary.</p>
2	General Housekeeping	<p>Housekeeping will consist of neat and orderly storage of materials and fluids. Wastes will be temporarily stored in sealed containers and regularly collected and disposed of at offsite, suitable facilities. If spills occur prompt cleanup is required to minimize any commingling of waste materials with stormwater runoff. Routine maintenance will be limited to fueling and lubrication of equipment. Drip pans will be used during routine fueling and maintenance to contain spills or leaks. Any waste product from maintenance will be containerized and transported offsite for disposal or recycling. There will be no major equipment overhauls conducted onsite. Equipment will be transported offsite for major overhauls. Cleanup of trash and discarded materials will be conducted at the end of each work day. Cleanup will consist of patrolling the roadway, access areas, and other work areas to pickup trash, scrap debris, other discarded materials, and any contaminated soil. These materials will be disposed of properly.</p>
3	Storm Water/Erosion Control	<p>BMP's will be constructed around the perimeter of the site prior to, or at the beginning of construction. Specific BMP's used may include stockpile stabilization, grading, sediment traps, and perimeter barriers based on final construction design and will remain in place until the pad reaches final reclamation.</p>
4	Dust control	<p>Noble shall employ practices for control of fugitive dust caused by their operations. Such practices shall include but are not limited to the use of speed restrictions, regular road maintenance, restriction of construction activity during high- wind days, and silica dust controls when handling sand used in hydraulic fracturing operations. Additional management practices such as road surfacing, wind breaks and barriers, or automation of wells to reduce truck traffic may also be used if technologically feasible and economically reasonable to minimize fugitive dust emissions.</p>
5	Construction	<ol style="list-style-type: none"> <li>1. A contiguous spray liner will be installed and will underlay the entire tank battery. The location of a partially buried cement water vault will be excavated prior to liner install.</li> <li>2. A 60 bbl cement water vault will be utilized to collect excess produced water from oil tanks. Produced water in the vault will be removed as needed and disposed of in an approved UIC disposal well. The cement water vault is one piece with no seams designed to minimize potential for leaks. All piping associated with the use of the water vault will be aboveground and visually inspected on a regular basis.</li> <li>3. The partially buried cement water vault will be installed above the spray in liner.</li> <li>4. A sized steel secondary containment ring will be installed surrounding the entire tank battery. Sand and gravel bedding will be installed to protect the liner prior to placing equipment in the containment area.</li> </ol>
6	Emissions mitigation	<p>Operator will use enclosed combustion devices with 98% or greater design destruction efficiency for hydrocarbons.</p> <p>The operator shall employ sand traps, surge vessels, separators, and tanks during flowback and cleanout operations to safely maximize resource recovery and minimize releases to accommodate green completions techniques.</p> <p>When commercial quantities of salable quality gas are achieved at each well, the gas shall be immediately directed to the sales line or wells will be shut-in and gas conserved. If a sales line is unavailable or other conditions prevent placing the gas into a sales line, the operator shall not produce the wells without an approved variance per Rule 805.b.(3)C. The Rule 912 notice and approval requirements apply regardless of a variance from Rule 805.b.(3)C.</p>



7	Final Reclamation	All interim and final reclamation activities will comply with Noble's Topsoil Management Plan.
---	-------------------	--

Total: 7 comment(s)

### **Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
1010521	WASTE MANAGEMENT PLAN
401775208	FORM 2A APPROVED
401775270	LOCATION PICTURES
401776929	MULTI-WELL PLAN
401778044	SURFACE AGRMT/SURETY
401794979	LOCATION DRAWING
401851331	FORM 2A SUBMITTED
401851334	PUBLIC COMMENT-0

Total Attach: 8 Files

### **General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Final Review	•Final permitting review complete. Sent to Final Approval.	11/21/2018
OGLA	<p>Changed Estimated Depth to Groundwater to 27 feet based on the water level reported for DWR Water Well Permit #14181 with operator concurrence.</p> <p>- Moved operator provided SWMP and SPCC BMPs to submit tab as comments; - Removed APDs from submit tab;</p> <p>Added the following agreed upon BMPs: On production facilities some lighting will be installed on timers; permanant lighting may be used when necessary.</p> <p>All interim and final reclamation activities will comply with Noble's Topsoil Management Plan.</p> <p>Operator will use enclosed combustion devices with 98% or greater design destruction efficiency for hydrocarbons. The operator shall employ sand traps, surge vessels, separators, and tanks during flowback and cleanout operations to safely maximize resource recovery and minimize releases to accommodate green completions techniques. When commercial quantities of salable quality gas are achieved at each well, the gas shall be immediately directed to the sales line or wells will be shut-in and gas conserved. If a sales line is unavailable or other conditions prevent placing the gas into a sales line, the operator shall not produce the wells without an approved variance per Rule 805.b.(3)C. The Rule 912 notice and approval requirements apply regardless of a variance from Rule 805.b.(3)C.</p> <p>Added the following to the Submit Tab: The attached Waste Management Plan contains information regarding the management and disposal of water-based fluids and cuttings.</p>	11/06/2018
Permit	<p>•Added CDP# to the Consultation &amp; Contact Info tab. •Initial permitting review complete and task passed.</p>	10/31/2018
OGLA	Remove the CDPHE and SPCC references from the Operator BMPs and place these under the Submit Tab.	10/26/2018
Permit	Returned to draft per operator's request.	10/12/2018

Total: 5 comment(s)



State of Colorado  
Oil and Gas Conservation Commission1120 Lincoln Street, Suite 801, Denver, Colorado 80203  
Phone: (303) 894-2100 Fax: (303) 894-2109

Document Number:

401775211

Date Received:

10/04/2018

## Oil and Gas Location Assessment

☒ New Location ☐ Refile ☐ Amend Existing Location Location#: \_\_\_\_\_

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:

**459234**

Expiration Date:

**10/28/2024**☒ This location assessment is included as part of a permit application.

## CONSULTATION

- ☒ This location is included in a Comprehensive Drilling Plan. CDP # 11984
- ☐ 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: 100322Name: NOBLE ENERGY INCAddress: 1001 NOBLE ENERGY WAYCity: HOUSTON State: TX Zip: 77070

## Contact Information

Name: Holly HillPhone: (303) 228 4232Fax: ( )email: CDPNBLPermitting@nblenergy.com

## FINANCIAL ASSURANCE

- ☒ Plugging and Abandonment Bond Surety ID (Rule 706): 20030009 ☐ Gas Facility Surety ID (Rule 711): \_\_\_\_\_
- ☐ Waste Management Surety ID (Rule 704): \_\_\_\_\_

## LOCATION IDENTIFICATION

Name: Y05-15Number: PadCounty: WELDQuarterQuarter: SWSE Section: 5 Township: 2N Range: 64W Meridian: 6 Ground Elevation: 4865

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: 399 feet FSL from North or South section line2284 feet FEL from East or West section lineLatitude: 40.161240 Longitude: -104.574070PDOP Reading: 1.6 Date of Measurement: 09/22/2018Instrument Operator's Name: Dominick Davis



## 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

401775208

## FACILITIES

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

Wells	5	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	5	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 lift meter buildings

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:

Five (5) 2-4" Steel Three Phase Flowlines, Seven (7) 2-4" Steel Gas Lift Lines, Three (3) 3-8" Temporary Poly Line for Fresh Water

## CONSTRUCTION

Date planned to commence construction: 01/01/2019 Size of disturbed area during construction in acres: 8.70

Estimated date that interim reclamation will begin: 07/01/2019 Size of location after interim reclamation in acres: 2.20

Estimated post-construction ground elevation: 4865

## 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:

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: Pioneer HoldCo LLC

Phone:



Address: 9033 E Easter Pl Ste 112

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

Address: Attn. Joel Farkas

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

City: Centennial State: CO Zip: 80112-2105

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 \_\_\_\_\_

### 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:	3985 Feet	3096 Feet
Building Unit:	4135 Feet	4065 Feet
High Occupancy Building Unit:	5280 Feet	5280 Feet
Designated Outside Activity Area:	5280 Feet	5280 Feet
Public Road:	5280 Feet	5280 Feet
Above Ground Utility:	507 Feet	510 Feet
Railroad:	5280 Feet	5280 Feet
Property Line:	323 Feet	243 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: 70 - Valent sand, 3 to 9 percent slopes

NRCS Map Unit Name: \_\_\_\_\_

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: 09/22/2018

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: 10 Feet

water well: 696 Feet

Estimated depth to ground water at Oil and Gas Location 27 Feet

Basis for depth to groundwater and sensitive area determination:

Location is sensitive due to proximity to surface water and depth to ground water.  
Depth to groundwater taken from permit #14181.  
Location lies within 10' of the FEMA 100-year floodplain delineation.

Is the location in a riparian area: ☒ No ☐ Yes

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

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

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

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

☒ Federal (FEMA)

☒ State

☐ County

☐ Local

☐ Other

## GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 318A

## WILDLIFE

☐



This location is included in a Wildlife Mitigation Plan

☐ This location was subject to a pre-consultation meeting with CPW held on \_\_\_\_\_

## 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 CDP has been filed with COGCC (Docket #180700613) for October. CDP # will be provided at a later date.

Stormwater management plans (SWMP) are in place to address construction, drilling, and operations associated with Oil & Gas development throughout the state of Colorado in accordance with Colorado Department of Public Health and Environment (CDPHE) and General Permit No.'s: COR03N578; COR03N579; COR03N580; and COR03O059.

Spill Prevention Control and Countermeasures (SPCC) plans are in place to address any possible spill associated with Oil & Gas operations throughout the state of Colorado.

The attached Waste Management Plan contains information regarding the management and disposal of water-based fluids and cuttings.

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

Signed: \_\_\_\_\_ Date: 10/04/2018 Email: CDPNBLPermitting@nblenergy.com

Print Name: Ann Feldman Title: Regulatory Manager

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: 11/27/2018

## 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
	Operator shall post this Form 2A at the Location at all times during construction, drilling and completion activities.
	This Form 2A and related Form 2s are approved subject to the Noble Mustang CDP accepted by Commission Order # 1-228.



## Best Management Practices

No	BMP/COA Type	Description
1	Planning	Lighting on location is considered temporary and will be used during recompletion activities. Permanent lighting will not be installed and utilized during normal production operations. Temporary lighting will be directed downward, inward, and shielded towards location to avoid glare on public roads and Building Units within 1,000 feet. Lighting will be turned off when practical, i.e., no operations being conducted.
2	General Housekeeping	Housekeeping will consist of neat and orderly storage of materials and fluids. Wastes will be temporarily stored in sealed containers and regularly collected and disposed of at offsite, suitable facilities. If spills occur prompt cleanup is required to minimize any commingling of waste materials with stormwater runoff. Routine maintenance will be limited to fueling and lubrication of equipment. Drip pans will be used during routine fueling and maintenance to contain spills or leaks. Any waste product from maintenance will be containerized and transported offsite for disposal or recycling. There will be no major equipment overhauls conducted onsite. Equipment will be transported offsite for major overhauls. Cleanup of trash and discarded materials will be conducted at the end of each work day. Cleanup will consist of patrolling the roadway, access areas, and other work areas to pickup trash, scrap debris, other discarded materials, and any contaminated soil. These materials will be disposed of properly.
3	Storm Water/Erosion Control	BMP's will be constructed around the perimeter of the site prior to, or at the beginning of construction. Specific BMP's used may include stockpile stabilization, grading, sediment traps, and perimeter barriers based on final construction design and will remain in place until the pad reaches final reclamation.
4	Dust control	Noble shall employ practices for control of fugitive dust caused by their operations. Such practices shall include but are not limited to the use of speed restrictions, regular road maintenance, restriction of construction activity during high- wind days, and silica dust controls when handling sand used in hydraulic fracturing operations. Additional management practices such as road surfacing, wind breaks and barriers, or automation of wells to reduce truck traffic may also be used if technologically feasible and economically reasonable to minimize fugitive dust emissions.
5	Construction	The Y05-15 drill pad lies within 10 feet of the FEMA 100-year floodplain delineation. The pad will incorporate drainage and hydrologic considerations during design and construction with wellheads and flowlines oriented parallel with floodwater flow and automation for immediate, remote shut-in capabilities. Structural guards/barriers will be installed upstream of wellheads to deflect flood debris, vulnerable slopes will be stabilized, and access road lengths will be minimized.
6	Emissions mitigation	Operator will use enclosed combustion devices with 98% or greater design destruction efficiency for hydrocarbons. The operator shall employ sand traps, surge vessels, separators, and tanks during flowback and cleanout operations to safely maximize resource recovery and minimize releases to accommodate green completions techniques. When commercial quantities of salable quality gas are achieved at each well, the gas shall be immediately directed to the sales line or wells will be shut-in and gas conserved. If a sales line is unavailable or other conditions prevent placing the gas into a sales line, the operator shall not produce the wells without an approved variance per Rule 805.b.(3)C. The Rule 912 notice and approval requirements apply regardless of a variance from Rule 805.b.(3)C.
7	Final Reclamation	All interim and final reclamation activities will comply with Noble's Topsoil Management Plan.

Total: 7 comment(s)



## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
1010561	WASTE MANAGEMENT PLAN
401775211	FORM 2A APPROVED
401775249	MULTI-WELL PLAN
401775271	LOCATION PICTURES
401778039	SURFACE AGRMT/SURETY
401794996	LOCATION DRAWING
401851332	FORM 2A SUBMITTED
401851333	PUBLIC COMMENT-0

Total Attach: 8 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Final Review	<ul style="list-style-type: none"> <li>•Final permitting review complete. Sent to Final Approval.</li> <li>•Per the attached Multi-Well Plan, corrected the Longitude to agree with the surface footages.</li> </ul>	11/21/2018
OGLA	<p>Changed Estimated Depth to Groundwater to 27 feet based on the water level reported for DWR Water Well Permit #14181 with Operator concurrence.</p> <p>- Moved operator provided SWMP and SPCC BMPs to submit tab as comments; - Removed APDs from submit tab;</p> <p>Added the following agreed upon BMP: All interim and final reclamation activities will comply with Noble's Topsoil Management Plan.</p> <p>Operator will use enclosed combustion devices with 98% or greater design destruction efficiency for hydrocarbons. The operator shall employ sand traps, surge vessels, separators, and tanks during flowback and cleanout operations to safely maximize resource recovery and minimize releases to accommodate green completions techniques. When commercial quantities of salable quality gas are achieved at each well, the gas shall be immediately directed to the sales line or wells will be shut-in and gas conserved. If a sales line is unavailable or other conditions prevent placing the gas into a sales line, the operator shall not produce the wells without an approved variance per Rule 805.b.(3)C. The Rule 912 notice and approval requirements apply regardless of a variance from Rule 805.b.(3)C.</p> <p>With Operator concurrence, added the following to the Submit Tab: The attached Waste Management Plan contains information regarding the management and disposal of water-based fluids and cuttings.</p>	11/06/2018
Permit	<ul style="list-style-type: none"> <li>•Added CDP# to the Consultation &amp; Contact Info tab.</li> <li>•Initial permitting review complete and task passed.</li> </ul>	10/31/2018
OGLA	<p>Remove BMPs that reference CDPHE and SPCC requirements. These should be placed under the Submit Tab.</p> <p>Passed Completeness.</p>	10/26/2018
Permit	Returned to draft per operator's request.	10/12/2018

Total: 5 comment(s)



FORM  
2A

Rev  
04/18

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:

401776720

Date Received:

10/04/2018

Oil and Gas Location Assessment

☒ New Location ☐ Refile ☐ Amend Existing Location Location#: \_\_\_\_\_

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:

**459203**

Expiration Date:

**10/28/2024**

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

CONSULTATION

- ☒ This location is included in a Comprehensive Drilling Plan. CDP # 11984
- ☐ 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: 100322

Name: NOBLE ENERGY INC

Address: 1001 NOBLE ENERGY WAY

City: HOUSTON State: TX Zip: 77070

Contact Information

Name: Holly Hill

Phone: (303) 228 4232

Fax: ( )

email: CDPNBLPermitting@nblenergy.com

FINANCIAL ASSURANCE

- ☒ Plugging and Abandonment Bond Surety ID (Rule 706): 20030009 ☐ Gas Facility Surety ID (Rule 711): \_\_\_\_\_
- ☐ Waste Management Surety ID (Rule 704): \_\_\_\_\_

LOCATION IDENTIFICATION

Name: Y07-02 Number: Pad

County: WELD

QuarterQuarter: NWNE Section: 7 Township: 2N Range: 64W Meridian: 6 Ground Elevation: 4885

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: 702 feet FNL from North or South section line

2284 feet FEL from East or West section line

Latitude: 40.158050 Longitude: -104.592880

PDOP Reading: 1.5 Date of Measurement: 09/22/2018

Instrument Operator's Name: Dominick Davis



## 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

401775208

## FACILITIES

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

Wells	9	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**

Gas Lift Meter Buildings

3

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

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

Nine (9) 2-4" Steel Three Phase Flowlines, Twelve (12) 2-4" Steel Gas Lift Lines, Three (3) 12" Temporary Poly Line for Fresh Water

## CONSTRUCTION

Date planned to commence construction: 02/01/2019 Size of disturbed area during construction in acres: 10.20

Estimated date that interim reclamation will begin: 08/01/2019 Size of location after interim reclamation in acres: 3.10

Estimated post-construction ground elevation: 4885

## 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:

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: PIONEER HOLDCO

Phone:



Address: 9033 E. Easter Pl Ste 112

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

Address: Attn: Joel Farkas

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

City: Centennial State: CO Zip: 80112-2105

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 \_\_\_\_\_

### 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:	1258 Feet	1205 Feet
Building Unit:	1341 Feet	1281 Feet
High Occupancy Building Unit:	5280 Feet	5280 Feet
Designated Outside Activity Area:	5280 Feet	5280 Feet
Public Road:	2794 Feet	2794 Feet
Above Ground Utility:	443 Feet	363 Feet
Railroad:	5280 Feet	5280 Feet
Property Line:	702 Feet	622 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: 49 - Osgood sand, 0 to 3 percent slopes

NRCS Map Unit Name: 70 - Valent sand, 3 to 9 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: 09/22/2018

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: 2564 Feet

water well: 789 Feet

Estimated depth to ground water at Oil and Gas Location 27 Feet

Basis for depth to groundwater and sensitive area determination:

Location is not sensitive due to distance to surface water and depth to ground water.  
Depth to groundwater taken from permit #14181

Is the location in a riparian area: ☒ No ☐ Yes

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

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

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

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

☒ Federal (FEMA)

☒ State

☐ County

☐ Local

☐ Other

## GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 318A

## WILDLIFE

☐ This location is included in a Wildlife Mitigation Plan



☐ This location was subject to a pre-consultation meeting with CPW held on \_\_\_\_\_

## 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 Environment (CDPHE) General Permit No. COR- 038637.

Spill Prevention Control and Countermeasures (SPCC) plans are in place to address any possible spill associated with Oil & Gas operations throughout the state of Colorado.

The attached Waste Management Plan contains information regarding the management and disposal of water-based fluids and cuttings.

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

Signed: \_\_\_\_\_ Date: 10/04/2018 Email: CDPNBLPermitting@nblenergy.com

Print Name: Ann Feldman Title: Regulatory Manager

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: 11/26/2018

## 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

	Operator shall post this Form 2A at the Location at all times during construction, drilling and completion activities.
	This Form 2A and related Form 2s are approved subject to the Noble Mustang CDP accepted by Commission Order # 1-228.



## Best Management Practices

No	BMP/COA Type	Description
1	Planning	<p>COGCC Rule 803 Lighting Planning:</p> <ul style="list-style-type: none"> <li>• Lighting on location is considered temporary and will be used during recompletion activities. Permanent lighting will not be installed and utilized during normal production operations. Temporary lighting will be directed downward, inward, and shielded towards location to avoid glare on public roads and Building Units within 1,000 feet. Lighting will be turned off when practical, i.e., no operations being conducted.</li> </ul>
2	General Housekeeping	<p>Housekeeping will consist of neat and orderly storage of materials and fluids. Wastes will be temporarily stored in sealed containers and regularly collected and disposed of at offsite, suitable facilities. If spills occur prompt cleanup is required to minimize any commingling of waste materials with storm water runoff. Routine maintenance will be limited to fueling and lubrication of equipment. Drip pans will be used during routine fueling and maintenance to contain spills or leaks. Any waste product from maintenance will be containerized and transported offsite for disposal or recycling. There will be no major equipment overhauls conducted onsite. Equipment will be transported offsite for major overhauls. Cleanup of trash and discarded materials will be conducted at the end of each work day. Cleanup will consist of patrolling the roadway, access areas, and other work areas to pick up trash, scrap debris, other discarded materials, and any contaminated soil. These materials will be disposed of properly.</p>
3	Storm Water/Erosion Control	<p>BMP's will be constructed around the perimeter of the site prior to, or at the beginning of construction. BMP's used will vary according to the location, and will remain in place and maintained until the pad reaches final reclamation. Noble Energy uses the BMPs or combination of BMPs listed below to control erosion and storm water runoff from construction, drilling, completion and operation activities: Berm, Cattle Guard, Culvert, Detention Basin, Dewatering Operations, Discharge Trench, Ditch, Erosion Control Blanket, Filtrexx Sediment Control, Hydro-Mulch, Ripping, Rip-Rap, Sediment Trap, Seeding, Silt Fence, Soil Roughening, or Tracking Pad.</p>
4	Dust control	<p>Noble shall employ practices for control of fugitive dust caused by their operations. Such practices shall include but are not limited to the use of speed restrictions, regular road maintenance, restriction of construction activity during high- wind days, and silica dust controls when handling sand used in hydraulic fracturing operations. Additional management practices such as road surfacing, wind breaks and barriers, or automation of wells to reduce truck traffic may also be used if technologically feasible and economically reasonable to minimize fugitive dust emissions.</p>
5	Emissions mitigation	<p>Operator will use enclosed combustion devices with 98% or greater design destruction efficiency for hydrocarbons.</p> <p>The operator shall employ sand traps, surge vessels, separators, and tanks during flowback and cleanout operations to safely maximize resource recovery and minimize releases to accommodate green completions techniques.</p> <p>When commercial quantities of salable quality gas are achieved at each well, the gas shall be immediately directed to the sales line or wells will be shut-in and gas conserved. If a sales line is unavailable or other conditions prevent placing the gas into a sales line, the operator shall not produce the wells without an approved variance per Rule 805.b.(3)C. The Rule 912 notice and approval requirements apply regardless of a variance from Rule 805.b.(3)C.</p>
6	Final Reclamation	<p>All interim and final reclamation activities will comply with Noble's Topsoil Management Plan.</p>

Total: 6 comment(s)



## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
1010524	WASTE MANAGEMENT PLAN
401776720	FORM 2A APPROVED
401780159	SURFACE AGRMT/SURETY
401784538	LOCATION PICTURES
401784746	MULTI-WELL PLAN
401794816	LOCATION DRAWING
401849551	FORM 2A SUBMITTED
401849581	PUBLIC COMMENT-0

Total Attach: 8 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Final Review	•Final permitting review complete. Sent to Final Approval.	11/20/2018
OGLA	<p>With Operator concurrence, changed the estimated depth to groundwater to 27 feet based on the depth to groundwater reported for DWR Water Well Permit #14181. Changed the Basis Statement to reflect DWR Permit #14181.</p> <p>- Moved operator provided SWMP and SPCC BMPs to submit tab as comments; - Removed APDs from submit tab;</p> <p>Added the following agreed upon BMPs to the Operator BMP List: Operator will use enclosed combustion devices with 98% or greater design destruction efficiency for hydrocarbons. The operator shall employ sand traps, surge vessels, separators, and tanks during flowback and cleanout operations to safely maximize resource recovery and minimize releases to accommodate green completions techniques. When commercial quantities of salable quality gas are achieved at each well, the gas shall be immediately directed to the sales line or wells will be shut-in and gas conserved. If a sales line is unavailable or other conditions prevent placing the gas into a sales line, the operator shall not produce the wells without an approved variance per Rule 805.b.(3)C. The Rule 912 notice and approval requirements apply regardless of a variance from Rule 805.b.(3)C.</p> <p>All interim and final reclamation activities will comply with Noble's Topsoil Management Plan.</p> <p>With Operator concurrence, added the following to the Submit Tab: The attached Waste Management Plan contains information regarding the management and disposal of water-based fluids and cuttings.</p>	11/07/2018
Permit	<ul style="list-style-type: none"> <li>•Corrected related forms on the submit tab.</li> <li>•Added CDP# to the Consultation &amp; Contact Info tab.</li> <li>•Initial permitting review complete and task passed.</li> </ul>	10/31/2018
OGLA	<p>Remove references to CDPHE and SPCC from the Operators BMPs. These should be placed under the Submit Tab.</p> <p>Passed Completeness.</p>	10/26/2018
Permit	•Added comment to submit tab per operator.	10/12/2018
Permit	Returned to draft per operator's request.	10/12/2018

Total: 6 comment(s)



FORM  
2A

Rev  
04/18

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:

401776706

Date Received:

10/04/2018

Oil and Gas Location Assessment

☒ New Location ☐ Refile ☐ Amend Existing Location Location#: \_\_\_\_\_

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:

**459220**

Expiration Date:

**10/28/2024**

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

CONSULTATION

- ☒ This location is included in a Comprehensive Drilling Plan. CDP # 11984
- ☐ 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: 100322

Name: NOBLE ENERGY INC

Address: 1001 NOBLE ENERGY WAY

City: HOUSTON State: TX Zip: 77070

Contact Information

Name: Holly Hill

Phone: (303) 228 4232

Fax: ( )

email: CDPNBLPermitting@nblenergy.com

FINANCIAL ASSURANCE

- ☒ Plugging and Abandonment Bond Surety ID (Rule 706): 20030009 ☐ Gas Facility Surety ID (Rule 711): \_\_\_\_\_
- ☐ Waste Management Surety ID (Rule 704): \_\_\_\_\_

LOCATION IDENTIFICATION

Name: Y07-03 Number: Pad

County: WELD

QuarterQuarter: NENW Section: 7 Township: 2N Range: 64W Meridian: 6 Ground Elevation: 4887

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: 680 feet FNL from North or South section line

1923 feet FWL from East or West section line

Latitude: 40.158080 Longitude: -104.596030

PDOP Reading: 1.4 Date of Measurement: 09/22/2018

Instrument Operator's Name: Dominick Davis



## 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

401775208

## FACILITIES

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

Wells	9	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**

Gas Lift Meter Buildings

3

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

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

Nine (9) 2-4" Steel Three Phase Flowlines, Twelve (12) 2-4" Steel Gas Lift Lines, Three (3) 12" Temporary Poly Line for Fresh Water

## CONSTRUCTION

Date planned to commence construction: 02/01/2019 Size of disturbed area during construction in acres: 10.20

Estimated date that interim reclamation will begin: 08/01/2019 Size of location after interim reclamation in acres: 3.10

Estimated post-construction ground elevation: 4887

## 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:

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: PIONEER HOLDCO LLC

Phone:



Address: 9033 E. Easter Pl Ste 112

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

Address: Attn: Joel Farkas

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

City: Centennial State: CO Zip: 80112-2105

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 \_\_\_\_\_

### 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:	860 Feet	940 Feet
Building Unit:	1020 Feet	1100 Feet
High Occupancy Building Unit:	5280 Feet	5280 Feet
Designated Outside Activity Area:	5280 Feet	5280 Feet
Public Road:	1911 Feet	1912 Feet
Above Ground Utility:	428 Feet	499 Feet
Railroad:	5280 Feet	5280 Feet
Property Line:	680 Feet	760 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: 70 - Valent sand, 3 to 9 percent slopes

NRCS Map Unit Name: \_\_\_\_\_

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: 09/22/2018

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: 1875 Feet

water well: 734 Feet

Estimated depth to ground water at Oil and Gas Location 27 Feet

Basis for depth to groundwater and sensitive area determination:

Location is not sensitive due to proximity to distance to surface water and depth to ground water.  
Depth to groundwater taken from permit #14181

Is the location in a riparian area: ☒ No ☐ Yes

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

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

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

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

☒ Federal (FEMA)

☒ State

☐ County

☐ Local

☐ Other

## GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 318A

## WILDLIFE

☐



This location is included in a Wildlife Mitigation Plan

☐ This location was subject to a pre-consultation meeting with CPW held on \_\_\_\_\_

### 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	CDP has been filed with COGCC (Docket #180700613) for October. CDP # will be provided at a later date.  Environment (CDPHE) General Permit No. COR- 038637.  Spill Prevention Control and Countermeasures (SPCC) plans are in place to address any possible spill associated with Oil & Gas operations throughout the state of Colorado.  The attached Waste Management Plan contains information regarding the management and disposal of water-based fluids and cuttings.
----------	---

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

Signed: \_\_\_\_\_ Date: 10/04/2018 Email: CDPNBLPermitting@nblenergy.com

Print Name: Ann Feldman Title: Regulatory Manager

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: 11/26/2018

### 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
	Operator shall post this Form 2A at the Location during all construction, drilling and completion activities.
	Location lies 20-foot outside of the Buffer Zone. Operator shall submit an As-Built Survey upon completion of the construction, drilling and completion activities.
	This Form 2A and related Form 2s are approved subject to the Noble Mustang CDP accepted by Commission Order # 1-228.



## Best Management Practices

No	BMP/COA Type	Description
1	Planning	<p>COGCC Rule 803 Lighting Planning:</p> <ul style="list-style-type: none"> <li>• Lighting on location is considered temporary and will be used during recompletion activities. Permanent lighting will not be installed and utilized during normal production operations. Temporary lighting will be directed downward, inward, and shielded towards location to avoid glare on public roads and Building Units within 1,000 feet. Lighting will be turned off when practical, i.e., no operations being conducted.</li> </ul>
2	General Housekeeping	<p>Housekeeping will consist of neat and orderly storage of materials and fluids. Wastes will be temporarily stored in sealed containers and regularly collected and disposed of at offsite, suitable facilities. If spills occur prompt cleanup is required to minimize any commingling of waste materials with storm water runoff. Routine maintenance will be limited to fueling and lubrication of equipment. Drip pans will be used during routine fueling and maintenance to contain spills or leaks. Any waste product from maintenance will be containerized and transported offsite for disposal or recycling. There will be no major equipment overhauls conducted onsite. Equipment will be transported offsite for major overhauls. Cleanup of trash and discarded materials will be conducted at the end of each work day. Cleanup will consist of patrolling the roadway, access areas, and other work areas to pick up trash, scrap debris, other discarded materials, and any contaminated soil. These materials will be disposed of properly.</p>
3	Storm Water/Erosion Control	<p>BMP's will be constructed around the perimeter of the site prior to, or at the beginning of construction. BMP's used will vary according to the location, and will remain in place and maintained until the pad reaches final reclamation. Noble Energy uses the BMPs or combination of BMPs listed below to control erosion and storm water runoff from construction, drilling, completion and operation activities: Berm, Cattle Guard, Culvert, Detention Basin, Dewatering Operations, Discharge Trench, Ditch, Erosion Control Blanket, Filtrexx Sediment Control, Hydro-Mulch, Ripping, Rip-Rap, Sediment Trap, Seeding, Silt Fence, Soil Roughening, or Tracking Pad.</p>
4	Dust control	<p>Noble shall employ practices for control of fugitive dust caused by their operations. Such practices shall include but are not limited to the use of speed restrictions, regular road maintenance, restriction of construction activity during high- wind days, and silica dust controls when handling sand used in hydraulic fracturing operations. Additional management practices such as road surfacing, wind breaks and barriers, or automation of wells to reduce truck traffic may also be used if technologically feasible and economically reasonable to minimize fugitive dust emissions.</p>
5	Emissions mitigation	<p>Operator will use enclosed combustion devices with 98% or greater design destruction efficiency for hydrocarbons.</p> <p>The operator shall employ sand traps, surge vessels, separators, and tanks during flowback and cleanout operations to safely maximize resource recovery and minimize releases to accommodate green completions techniques.</p> <p>When commercial quantities of salable quality gas are achieved at each well, the gas shall be immediately directed to the sales line or wells will be shut-in and gas conserved. If a sales line is unavailable or other conditions prevent placing the gas into a sales line, the operator shall not produce the wells without an approved variance per Rule 805.b.(3)C. The Rule 912 notice and approval requirements apply regardless of a variance from Rule 805.b.(3)C.</p>
6	Final Reclamation	<p>All interim and final reclamation activities will comply with Noble's Topsoil Management Plan.</p>

Total: 6 comment(s)



## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
1010523	WASTE MANAGEMENT PLAN
401776706	FORM 2A APPROVED
401777374	LOCATION PICTURES
401780166	SURFACE AGRMT/SURETY
401784682	MULTI-WELL PLAN
401794840	LOCATION DRAWING
401849549	FORM 2A SUBMITTED
401849571	PUBLIC COMMENT-0

Total Attach: 8 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Final Review	<ul style="list-style-type: none"> <li>•Per the attached Multi-Well Plan, corrected the Longitude to agree with the provided surface footages.</li> <li>•Final permitting review complete. Sent to Final Approval.</li> </ul>	11/21/2018
OGLA	<p>With Operator concurrence, changed the estimated depth to groundwater to 27 feet based on the depth to groundwater reported for DWR Water Well Permit #14181. Changed the Basis Statement to reflect DWR Permit #14181.</p> <p>- Moved operator provided SWMP and SPCC BMPs to submit tab as comments; - Removed APDs from submit tab;</p> <p>Added the following agreed upon BMPs to the Operator BMP List: Operator will use enclosed combustion devices with 98% or greater design destruction efficiency for hydrocarbons. The operator shall employ sand traps, surge vessels, separators, and tanks during flowback and cleanout operations to safely maximize resource recovery and minimize releases to accommodate green completions techniques. When commercial quantities of salable quality gas are achieved at each well, the gas shall be immediately directed to the sales line or wells will be shut-in and gas conserved. If a sales line is unavailable or other conditions prevent placing the gas into a sales line, the operator shall not produce the wells without an approved variance per Rule 805.b.(3)C. The Rule 912 notice and approval requirements apply regardless of a variance from Rule 805.b.(3)C.</p> <p>All interim and final reclamation activities will comply with Noble's Topsoil Management Plan.</p> <p>With Operator concurrence, added the following to the Submit Tab: The attached Waste Management Plan contains information regarding the management and disposal of water-based fluids and cuttings.</p>	11/07/2018
Permit	<ul style="list-style-type: none"> <li>•Corrected related forms on the related forms tab and the submit tab.</li> <li>•Added CDP# to the Consultation &amp; Contact Info tab.</li> <li>•Initial permitting review complete and task passed.</li> </ul>	10/31/2018
OGLA	<p>Remove references to CDPHE and SPCC from the Operators BMPs. These should be placed under the Submit Tab. Estimated Depth to Groundwater should be 27 feet.</p> <p>Passed Completeness.</p>	10/26/2018
Permit	Returned to draft per operator's request.	10/12/2018

Total: 5 comment(s)



**EXHIBIT B**

**WELD COUNTY APPROVED WOGLA'S**





Department of Planning Services  
1555 N 17<sup>th</sup> Ave.  
Greeley, CO 80631  
Website: [www.weldgov.com](http://www.weldgov.com)  
E-Mail: [tparko@weldgov.com](mailto:tparko@weldgov.com)  
Phone: 970-400-3572  
Fax: 970-304-6498

June 11, 2019

Noble Energy  
Attn: Dan Kearney  
1625 Broadway, Suite 2200  
Denver, CO 80202

RE: Noble Energy Mustang CDP & Weld County Comprehensive WOGLA

Dear Mr. Kearney,

This letter serves as acknowledgement of Weld County receiving the completed Comprehensive Weld Oil & Gas Location Assessment (Comprehensive WOGLA) for the Mustang CDP area.

The Weld County Department of Planning Services has reviewed your submittal and determined that sufficient evidence was provided in the Comprehensive WOGLA demonstrating that the standards set forth in Sections 23-2-1010 & Sections 23-2-1020 of the Weld County Code will be met.

Supplemental information for each location contained within the Comprehensive WOGLA will be required prior to final Director of Planning Services administrative approval.

The term of the Comprehensive WOGLA and the individual locations contained within is six (6) years.

The applicant shall comply with and continue to meet WOGLA standards. Necessary personnel from Weld County Government shall be granted access onto the property at any reasonable time in order to ensure the activities carried out on the property comply with WOGLA Standards. Failure to cure non-compliance with the standards may result in rescission of this approval in accordance with section 23-2-1070 of the Weld County Code.

Sincerely,

Tom Parko  
Director of Planning Services





DEPARTMENT OF PLANNING SERVICES  
1555 N 17th AVE  
GREELEY, CO 80631  
WEBSITE: [www.co.weld.co.us](http://www.co.weld.co.us)  
E-MAIL: [tparko@co.weld.co.us](mailto:tparko@co.weld.co.us)  
PHONE: (970) 400-3572  
FAX: (970) 304-6498

September 26, 2019

Cody Ball  
1625 Broadway Suite 2200  
Denver, CO 80202

RE: WOGLA19-0140 - Noble Y05-13 Multi  
T02 R64 5

Dear Applicant:

The Weld County Department of Planning Services has reviewed your Weld Oil & Gas Location Assessment (WOGLA). Sufficient evidence was provided in the application demonstrating that the standards set forth in Sections 23-2-1010 & Sections 23-2-1020 of the Weld County Code will be met. The Director of Planning Services has granted administrative approval.

Substantial changes from the plans, as shown or stated, may require a new WOGLA. The term of the WOGLA is three (3) years. Extensions may be granted by the Planning Director.

The applicant shall comply with and continue to meet WOGLA Standards. Necessary personnel from Weld County Government shall be granted access onto the property at any reasonable time in order to ensure the activities carried out on the property comply with WOGLA Standards. Failure to cure non-compliance with the standards may result in rescission of this approval in accordance with Section 23-2-1070 of the Weld County Code.

Sincerely,

Tom Parko  
Director of Planning Services





DEPARTMENT OF PLANNING SERVICES  
1555 N 17th AVE  
GREELEY, CO 80631  
WEBSITE: [www.co.weld.co.us](http://www.co.weld.co.us)  
E-MAIL: [tparko@co.weld.co.us](mailto:tparko@co.weld.co.us)  
PHONE: (970) 400-3572  
FAX: (970) 304-6498

December 17, 2019

Cody Ball  
1625 Broadway Suite 2200  
Denver, CO 80202

RE: WOGLA19-0139 - Noble Y05-15 Pad  
T02 R64 5

Dear Applicant:

The Weld County Department of Planning Services has reviewed your Weld Oil & Gas Location Assessment (WOGLA). Sufficient evidence was provided in the application demonstrating that the standards set forth in Sections 23-2-1010 & Sections 23-2-1020 of the Weld County Code will be met. The Director of Planning Services has granted administrative approval.

Substantial changes from the plans, as shown or stated, may require a new WOGLA. The term of the WOGLA is three (3) years. Extensions may be granted by the Planning Director.

The applicant shall comply with and continue to meet WOGLA Standards. Necessary personnel from Weld County Government shall be granted access onto the property at any reasonable time in order to ensure the activities carried out on the property comply with WOGLA Standards. Failure to cure non-compliance with the standards may result in rescission of this approval in accordance with Section 23-2-1070 of the Weld County Code.

Sincerely,

Tom Parko  
Director of Planning Services





DEPARTMENT OF PLANNING SERVICES  
1555 N 17th AVE  
GREELEY, CO 80631  
WEBSITE: [www.co.weld.co.us](http://www.co.weld.co.us)  
E-MAIL: [tparko@co.weld.co.us](mailto:tparko@co.weld.co.us)  
PHONE: (970) 400-3572  
FAX: (970) 304-6498

September 26, 2019

Cody Ball  
1625 Broadway Suite 2200  
Denver, CO 80202

RE: WOGLA19-0172 - Noble Y07-02 Pad  
T02 R64 7

Dear Applicant:

The Weld County Department of Planning Services has reviewed your Weld Oil & Gas Location Assessment (WOGLA). Sufficient evidence was provided in the application demonstrating that the standards set forth in Sections 23-2-1010 & Sections 23-2-1020 of the Weld County Code will be met. The Director of Planning Services has granted administrative approval.

Substantial changes from the plans, as shown or stated, may require a new WOGLA. The term of the WOGLA is three (3) years. Extensions may be granted by the Planning Director.

The applicant shall comply with and continue to meet WOGLA Standards. Necessary personnel from Weld County Government shall be granted access onto the property at any reasonable time in order to ensure the activities carried out on the property comply with WOGLA Standards. Failure to cure non-compliance with the standards may result in rescission of this approval in accordance with Section 23-2-1070 of the Weld County Code.

Sincerely,

Tom Parko  
Director of Planning Services





DEPARTMENT OF PLANNING SERVICES  
1555 N 17th AVE  
GREELEY, CO 80631  
WEBSITE: [www.co.weld.co.us](http://www.co.weld.co.us)  
E-MAIL: [tparko@co.weld.co.us](mailto:tparko@co.weld.co.us)  
PHONE: (970) 400-3572  
FAX: (970) 304-6498

September 26, 2019

Cody Ball  
1625 Broadway Suite 2200  
Denver, CO 80202

RE: WOGLA19-0173 - Noble Y07-03 Pad  
T02 R64 7

Dear Applicant:

The Weld County Department of Planning Services has reviewed your Weld Oil & Gas Location Assessment (WOGLA). Sufficient evidence was provided in the application demonstrating that the standards set forth in Sections 23-2-1010 & Sections 23-2-1020 of the Weld County Code will be met. The Director of Planning Services has granted administrative approval.

Substantial changes from the plans, as shown or stated, may require a new WOGLA. The term of the WOGLA is three (3) years. Extensions may be granted by the Planning Director.

The applicant shall comply with and continue to meet WOGLA Standards. Necessary personnel from Weld County Government shall be granted access onto the property at any reasonable time in order to ensure the activities carried out on the property comply with WOGLA Standards. Failure to cure non-compliance with the standards may result in rescission of this approval in accordance with Section 23-2-1070 of the Weld County Code.

Sincerely,

Tom Parko  
Director of Planning Services



**EXHIBIT C**

**APPROVED FLOOD HAZARD DEVELOPMENT PERMIT**





## FLOODPLAIN PERMIT DEPARTMENT OF PLANNING SERVICES

**Request:** Floodplain Development Permit – FHDP19-0080 – UPDATED –  
Install two - 12" temporary lay-flat lines, one 6" bulk flowline, one 4" test flowline, one 3" carbon steel lift line, one 2" HDPE line, and an access road

As a participant in FEMA's National Flood Insurance Program (NFIP), Weld County is required by FEMA to ensure that all development (as defined by FEMA) in a designated 100-year floodplain or floodway is compliant with FEMA, Colorado Water Conservation Board, and Weld County floodplain regulations (Chapter 23, Article XI). The intent of the Weld County floodplain regulations is to promote public health, safety and general welfare and to minimize public and private losses due to flood conditions. Failure to comply with the General and Specific Standards listed in Article XI of the Weld County Code and conditions listed in this FHDP may result in a violation case being brought before the Weld County Board of County Commissioners and potential fines.

Based application materials and the review of the current effective data this Floodplain permit (FHDP19-0080) is **approved** with the following conditions:

1. The applicant shall ensure that the site remains in compliance with FEMA, Colorado Water Conservation Board, and Weld County floodplain regulations (Chapter 23, Article XI) at all times.
2. The applicant shall submit any required Land Use Applications and corresponding fees and will received approval from the Department of Planning Services as applicable prior to construction.
3. The grade is required to be restored to the pre-project contours.
4. No permanent fill is allowed to be placed within the floodplain boundaries.

### Case Summary:

The submitted application materials are in compliance with the application requirements of Section 23-11-350 of the Weld County Code.

Applicant: Ascent Geomatics Solutions c/o Si Na Chau  
Engineer: Si Na Chau, PE #55050

### Location:

Owner: Pioneer Holdco LLC c/o Joel Farkas  
Parcel #: 1305-05-0-00-010  
Size: +/- 319 acres  
Legal Description: Part of the W2, Section 5, T2N, R64W of Weld County, CO  
Address: None  
Authorization – Yes Deed – Yes



Current Effective Data:

FIRM Community

Panel Map #: 08123C-1975E, dated January 20, 2016

Flood Zone: A – No BFEs determined

Waterway: Unnamed Stream

Project Description

The permit has been updated to reflect the correct number and type of pipelines. The project has not yet been constructed.

This permit is a request to install pipelines for 940 feet in the floodplain of an unnamed stream in the Box Elder Creek basin. Two pipelines will be temporary for water transport. Four will be permanently installed. The pipeline will be installed using the open cut method. The pipes will be buried a minimum of four (4) feet below grade. The access road associated with the pipeline project extends 960 feet into the floodplain. Post construction, the ground topography will be returned to existing grade.

This project appears to be consistent with Weld County Code Floodplain Regulations Article XI.

By Angela M Snyder  
Angela Snyder, Planner II, CFM

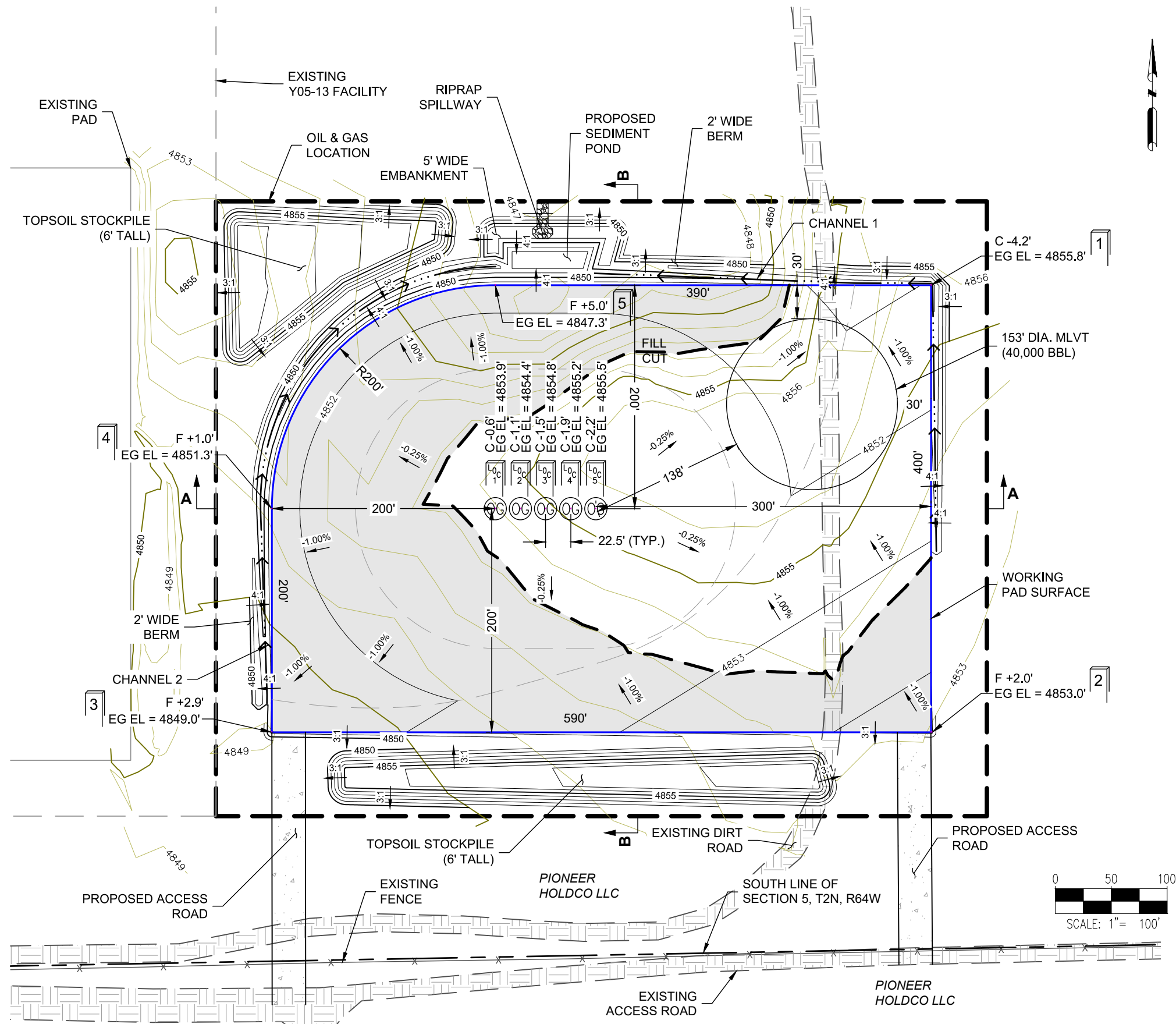
Date: December 16, 2019  
UPDATED May 31, 2022



**EXHIBIT D**  
**SITE PLANS**



Y05-13 PAD  
GRADING PLAN

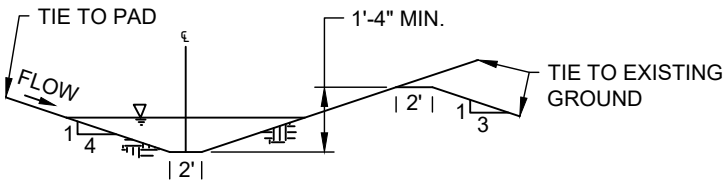


SITE QUANTITIES

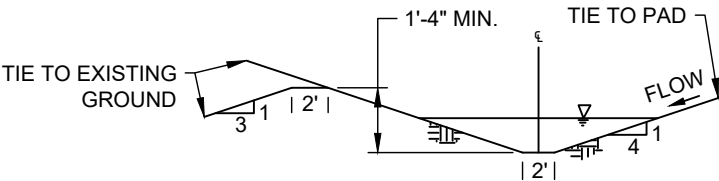
FINISHED GRADE ELEVATION	4851.7' - 4855.5'
ROUGH GRADE ELEVATION	4850.7' - 4854.5'
TOTAL CUT FOR SITE	8,262 CY
TOTAL FILL FOR SITE	8,201 CY
NET EXCESS MATERIAL	61 CY
TOPSOIL (6" DEPTH)	4,810 CY
OIL & GAS LOCATION AREA	8.7 ACRES
WORKING PAD SURFACE AREA	5.2 ACRES

PIONEER Y17-785	PIONEER Y17-765
PIONEER Y17-780	PIONEER Y17-755
PIONEER Y17-775	

- NOTES:
- ASCENT GEOMATICS SOLUTIONS WAS NOT PROVIDED A TITLE REPORT FOR THIS SITE. ALL RECORDED DOCUMENTS REFERENCED ON THESE PLANS WERE DOWNLOADED FROM RESEARCH VIA THE WELD COUNTY CLERK AND RECORDER. ASCENT GEOMATICS SOLUTIONS MAKES NO GUARANTY OR WARRANTY, EITHER EXPRESSED OR IMPLIED, TO THE COMPLETENESS OF ENCUMBRANCES TO THE SUBJECT PROPERTY.
  - THE SPOT CUT/FILL VALUES SHOWN ON THESE DRAWINGS ARE FOR PROPOSED GROUND VS. SCRAPED (I.E. TOPSOIL REMOVED) GROUND (E.G. +0.7 MEANS THAT THE PROPOSED GROUND IS 0.7 FT ABOVE THE SCRAPED GROUND).
  - THE CUT AND FILL VOLUMES PROVIDED IN THIS DRAWING PACKAGE ASSUME A 9:10 RATIO FOR EXCAVATED TO PLACED EARTHWORKS VOLUMES (I.E. A 0.9 SHRINKAGE FACTOR HAS BEEN APPLIED TO CUT VOLUMES.)



CHANNEL 1 DETAIL  
N.T.S.



CHANNEL 2 DETAIL  
N.T.S.

DISCLAIMER:  
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED.



ASCENT GEOMATICS SOLUTIONS  
8620 WOLFF COURT  
WESTMINSTER, CO 80031  
(303) 928-7128



NOBLE ENERGY, INC.  
2001 16th STREET, SUITE 900  
DENVER, CO 80202  
(303) 228-4000

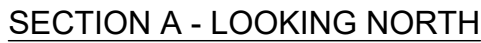
CONSTRUCTION LAYOUT  
Y05-13 PAD  
SW 1/4 SW 1/4 SECTION 5,  
T2N, R64W, 6TH P.M.  
WELD COUNTY, COLORADO

REV.	DATE	DESCRIPTION	INT.
0	7/8/22	ISSUED FOR CONSTRUCTION	AS
1	8/5/22	ISSUED FOR CONSTRUCTION	AS

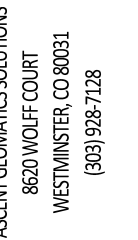
FIELD DATE:	6/2/2022
DRAWING DATE:	6/21/2022
DRAFTED BY:	AS
SHEET NO.	01 OF 03



HORIZ SCALE: 1"=80'  
VERT SCALE: 1"=8'



SHEET NO. 02 OF 03



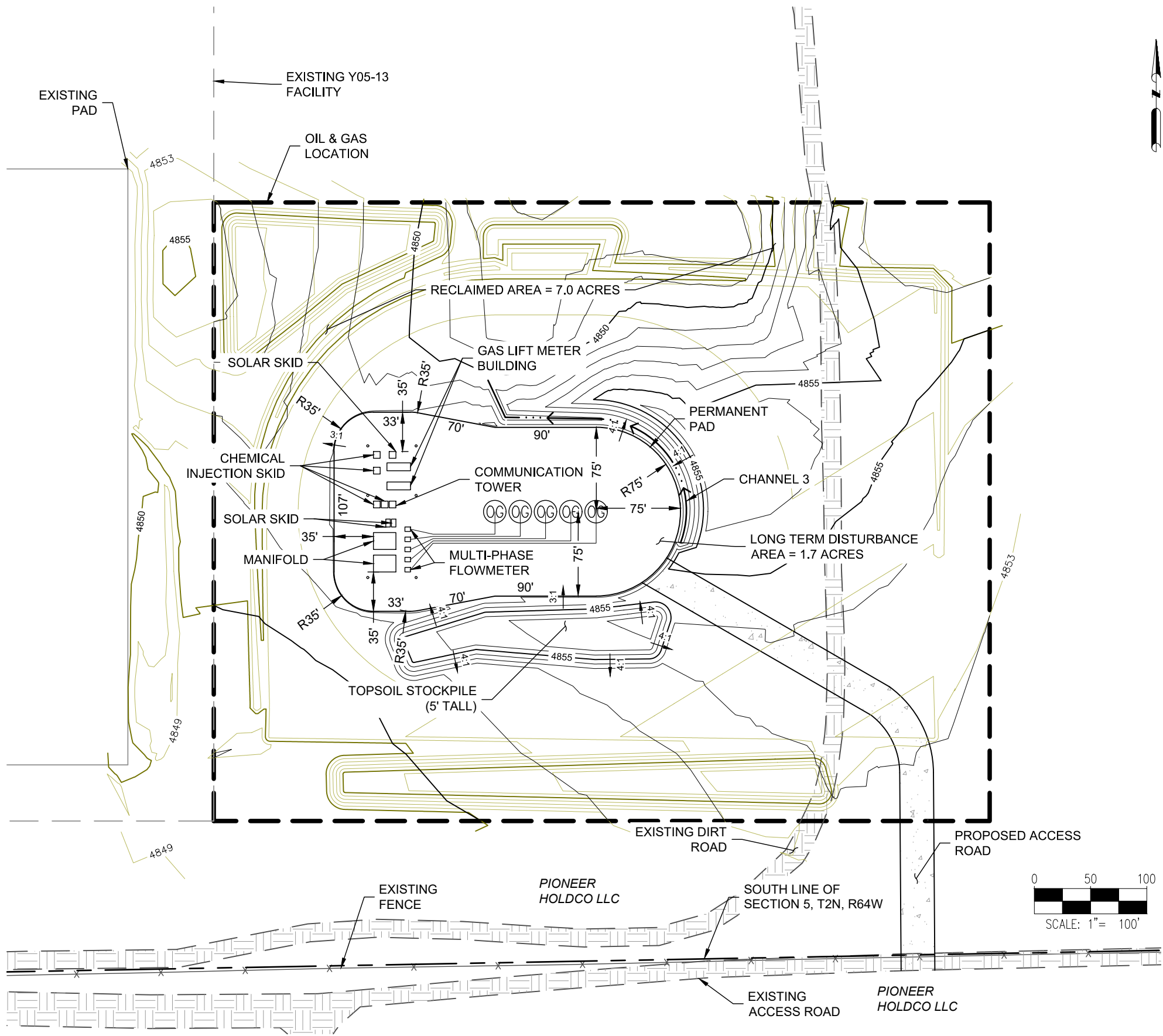
NOBLE ENERGY, INC.  
2001 16th STREET, SUITE 900  
DENVER, CO 80202  
(303) 228-4000

SHEET NAME:  
**CROSS SECTIONS**  
SUDENCE LOCATION

Y05-13 PAD  
SW 1/4 SW 1/4 SECTION 5,  
T2N, R64W, 6TH P.M.  
WELD COUNTY, COLORADO

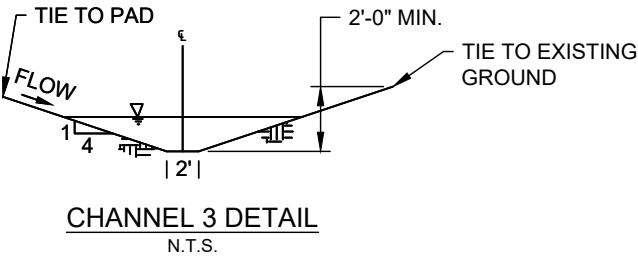


Y05-13 PAD  
GRADING PLAN



SITE QUANTITIES	
TOTAL CUT FOR SITE (BANK)	6,912 CY
TOTAL FILL FOR SITE	6,859 CY
NET EXCESS MATERIAL	53 CY
RECLAIMED AREA	6.9 ACRES
PERMANENT DISTURBANCE AREA	1.8 ACRES
OIL & GAS LOCATION AREA	8.7 ACRES

- NOTES:
- ASCENT GEOMATICS SOLUTIONS WAS NOT PROVIDED A TITLE REPORT FOR THIS SITE. ALL RECORDED DOCUMENTS REFERENCED ON THESE PLANS WERE DOWNLOADED FROM RESEARCH VIA THE WELD COUNTY CLERK AND RECORDER. ASCENT GEOMATICS SOLUTIONS MAKES NO GUARANTY OR WARRANTY, EITHER EXPRESSED OR IMPLIED, TO THE COMPLETENESS OF ENCUMBRANCES TO THE SUBJECT PROPERTY.
  - THE CUT AND FILL VOLUMES PROVIDED IN THIS DRAWING PACKAGE ASSUME A 9:10 RATIO FOR EXCAVATED TO PLACED EARTHWORKS VOLUMES (I.E. A 0.9 SHRINKAGE FACTOR HAS BEEN APPLIED TO CUT VOLUMES.)



DISCLAIMER:  
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED.

ASCENT  
GEOMATICS SOLUTIONS

ASCENT GEOMATICS SOLUTIONS  
8620 WOLFF COURT  
WESTMINSTER, CO 80031  
(303) 928-7128

PREPARED FOR:

NOBLE ENERGY, INC.  
2001 16th STREET, SUITE 900  
DENVER, CO 80202  
(303) 228-4000

SHEET NAME:

INTERIM RECLAMATION LAYOUT

SURFACE LOCATION

Y05-13 PAD  
SW 1/4 SW 1/4 SECTION 5,  
T2N, R64W, 6TH P.M.  
WELD COUNTY, COLORADO

REV.	DATE	DESCRIPTION	INT.
0	7/8/22	ISSUED FOR CONSTRUCTION	AS
1	8/5/22	ISSUED FOR CONSTRUCTION	AS

FIELD DATE:  
6/2/2022

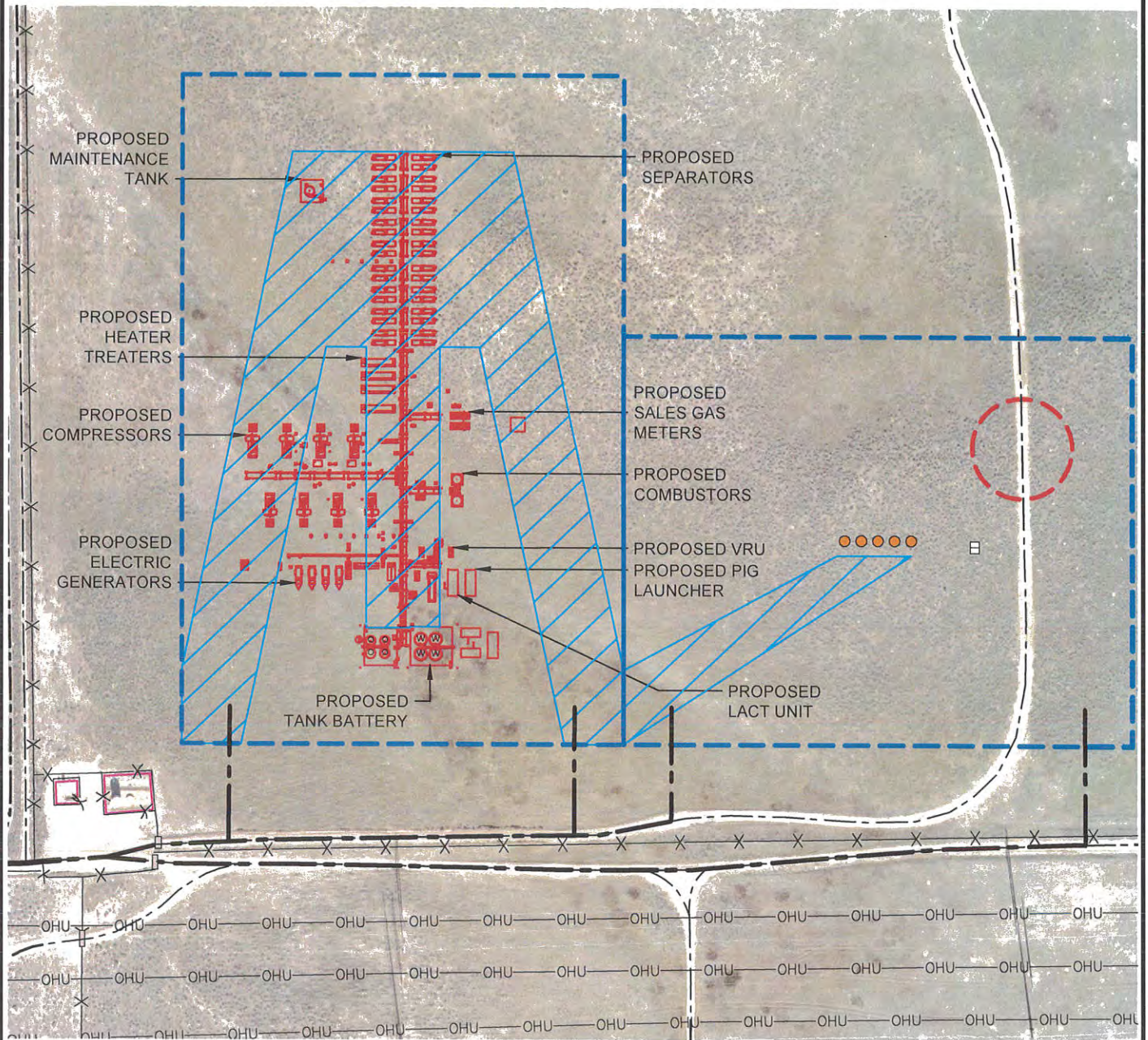
DRAWING DATE:  
6/21/2022

DRAFTED BY:  
AS

SHEET NO.  
03 OF 03

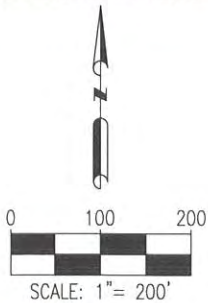


# Y05-13 MULTI WOGLA FACILITY LAYOUT



## LEGEND

- = PROPOSED WELL
- = PROPOSED DISTURBANCE AREA
- = PROPOSED GAS LIFT METER BUILDINGS
- = PROPOSED FACILITIES
- = PROPOSED MLVT
- = PROPOSED 100' FLOWLINE
- = PROPOSED ACCESS ROAD
- = EXISTING FACILITIES
- X X = FENCE
- OHU = OVERHEAD UTILITY
- = CATTLE GUARD
- = EXISTING ROAD



DISCLAIMER:  
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE  
RELIED UPON TO DETERMINE BOUNDARY LINES. PROPERTY OWNERSHIP OR OTHER  
PROPERTY INTERESTS, PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND  
MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN  
INDEPENDENTLY VERIFIED

DATA SOURCE:  
AERIAL IMAGE: ASCENT 11/2017  
NHD: USGS  
WATER WELLS: COLORADO DWR

PUBLICLY AVAILABLE DATA SOURCES HAVE NOT BEEN  
INDEPENDENTLY VERIFIED BY ASCENT



FIELD DATE  
09-22-18  
DRAWING DATE  
03-27-19  
BY  
JW  
CHECKED  
VQD

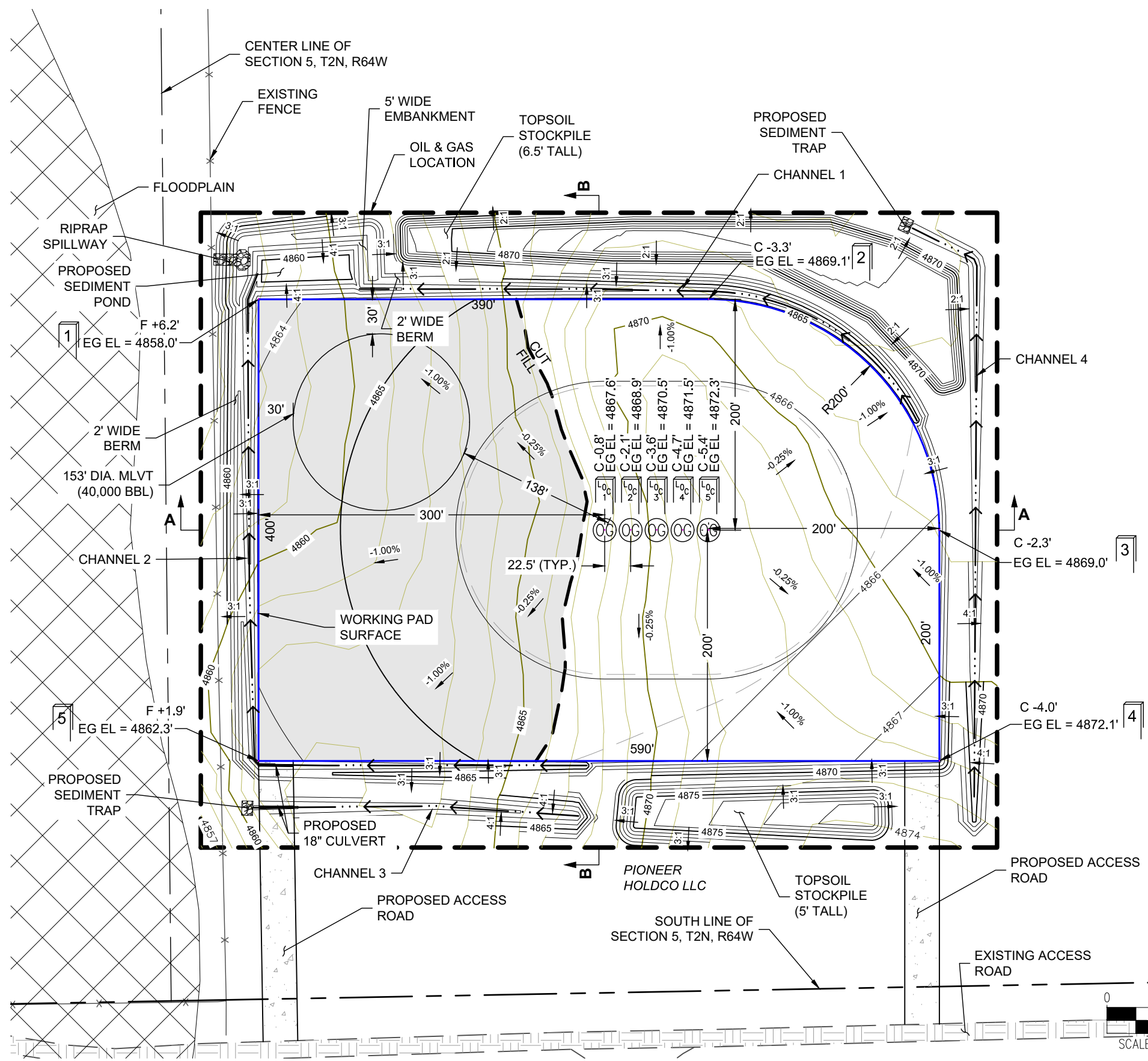
SITE NAME  
Y05-13 MULTI  
SURFACE LOCATION  
SW 1/4 SW 1/4 SEC. 5, T2N, R64W, 6TH P.M.  
WELD COUNTY, COLORADO

PREPARED FOR





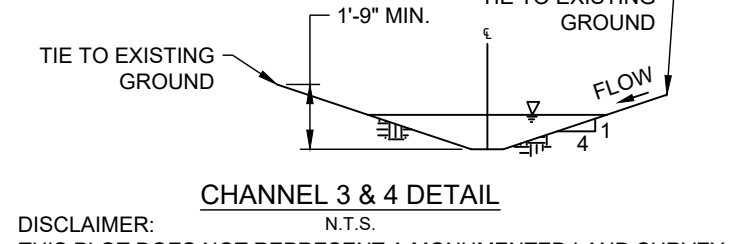
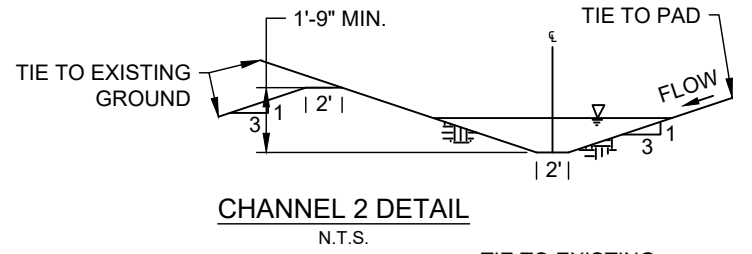
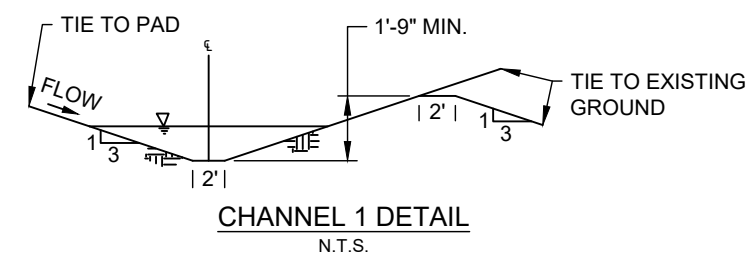
Y05-15 PAD  
GRADING PLAN



SITE QUANTITIES	
FINISHED GRADE ELEVATION	4864.7' - 4868.5'
ROUGH GRADE ELEVATION	4863.7' - 4867.5'
TOTAL CUT FOR SITE	16,598 CY
TOTAL FILL FOR SITE	16,040 CY
NET EXCESS MATERIAL	558 CY
TOPSOIL (6" DEPTH)	5,344 CY
OIL & GAS LOCATION AREA	8.7 ACRES
WORKING PAD SURFACE AREA	5.2 ACRES

PIONEER Y17-745	PIONEER Y17-725
PIONEER Y17-740	PIONEER Y17-715
PIONEER Y17-735	

- NOTES:
1. ASCENT GEOMATICS SOLUTIONS WAS NOT PROVIDED A TITLE REPORT FOR THIS SITE. ALL RECORDED DOCUMENTS REFERENCED ON THESE PLANS WERE DOWNLOADED FROM RESEARCH VIA THE WELD COUNTY CLERK AND RECORDER. ASCENT GEOMATICS SOLUTIONS MAKES NO GUARANTY OR WARRANTY, EITHER EXPRESSED OR IMPLIED, TO THE COMPLETENESS OF ENCUMBRANCES TO THE SUBJECT PROPERTY.
  2. CULVERTS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
  3. THE SPOT CUT/FILL VALUES SHOWN ON THESE DRAWINGS ARE FOR PROPOSED GROUND VS. SCRAPED (I.E. TOPSOIL REMOVED) GROUND (E.G. +0.7 MEANS THAT THE PROPOSED GROUND IS 0.7 FT ABOVE THE SCRAPED GROUND.
  4. THE CUT AND FILL VOLUMES PROVIDED IN THIS DRAWING PACKAGE ASSUME A 9:10 RATIO FOR EXCAVATED TO PLACED EARTHWORKS VOLUMES (I.E. A 0.9 SHRINKAGE FACTOR HAS BEEN APPLIED TO CUT VOLUMES.)



DISCLAIMER:  
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED.

ASCENT GEOMATICS SOLUTIONS  
8620 WOLFF COURT  
WESTMINSTER, CO 80031  
(303) 928-7128

PREPARED FOR:

NOBLE ENERGY, INC.  
2001 16th STREET, SUITE 900  
DENVER, CO 80202  
(303) 228-4000

SHEET NAME:

CONSTRUCTION LAYOUT

SURFACE LOCATION

Y05-15 PAD  
SW 1/4 SE 1/4 SECTION 5,  
T2N, R64W, 6TH P.M.  
WELD COUNTY, COLORADO

REV.	DATE	DESCRIPTION	INT.
0	7/8/22	ISSUED FOR CONSTRUCTION	AS
1	8/5/22	ISSUED FOR CONSTRUCTION	AS

FIELD DATE:

6/2/2022

DRAWING DATE:

6/15/2022

DRAFTED BY:

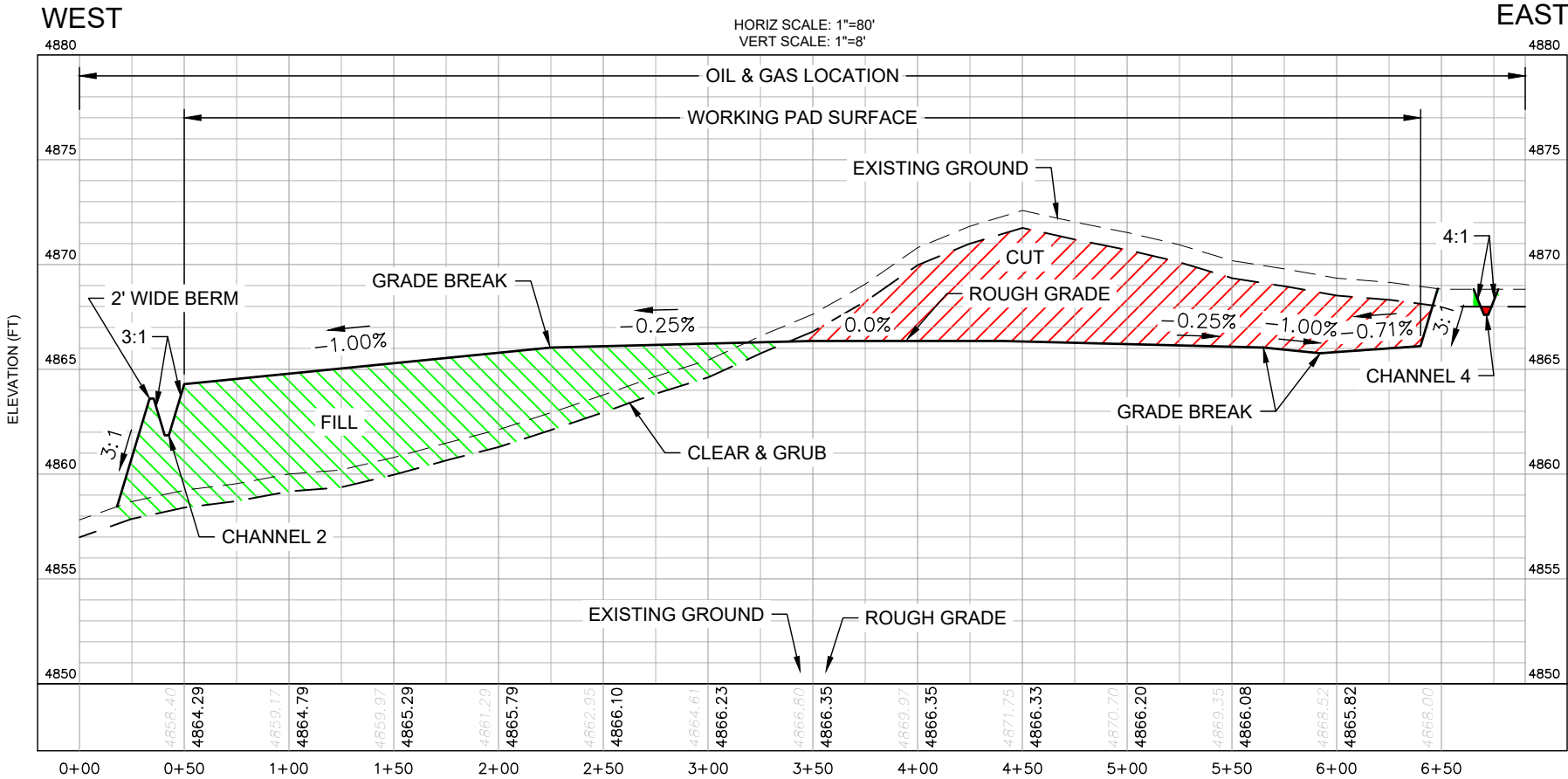
AS

SHEET NO.

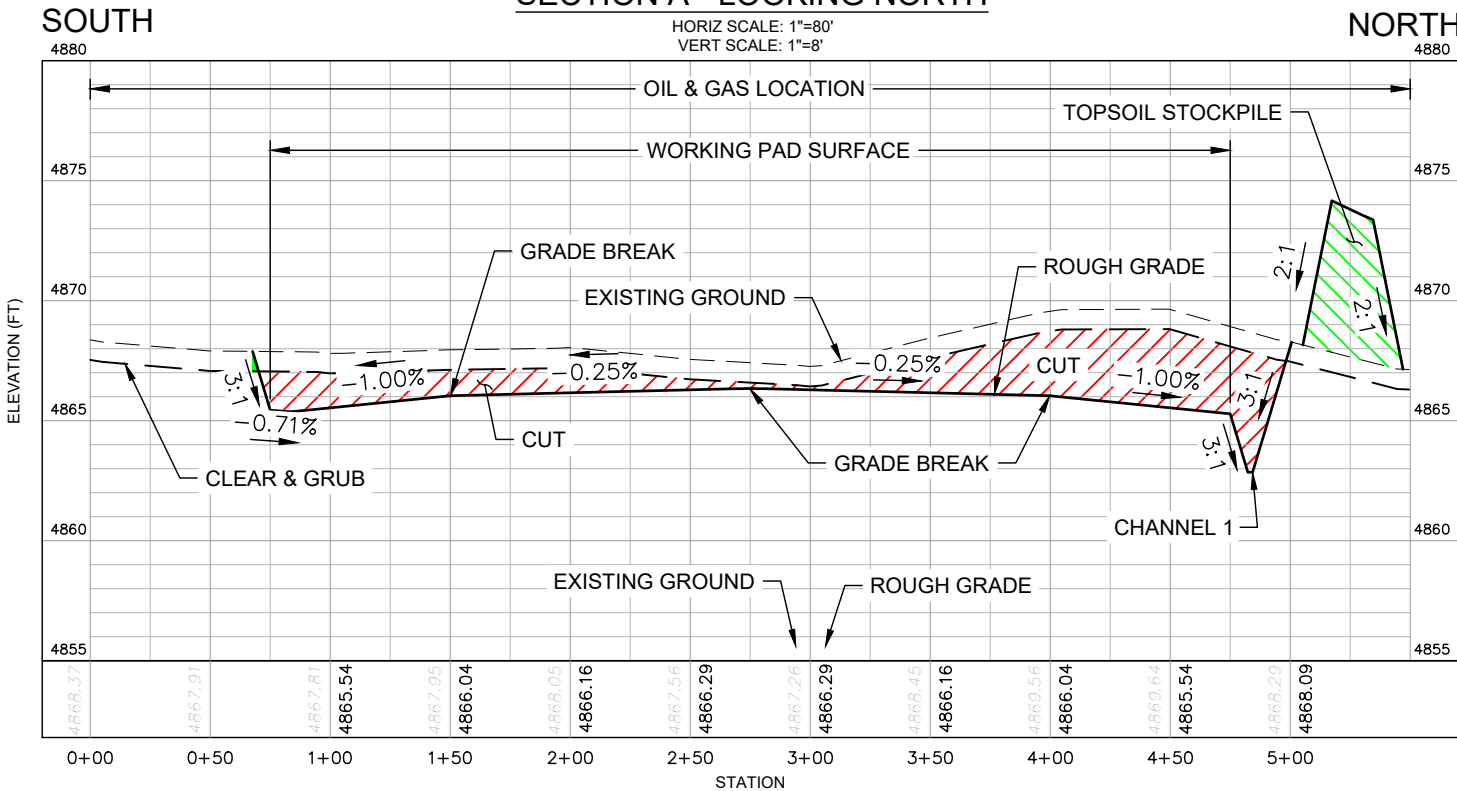
01 OF 03



Y05-15 PAD  
GRADING PLAN



SECTION A - LOOKING NORTH



SECTION B - LOOKING WEST

DISCLAIMER:  
THIS PLOT DOES NOT REPRESENT A  
MONUMENTED LAND SURVEY AND SHOULD  
NOT BE RELIED UPON TO DETERMINE  
BOUNDARY LINES, PROPERTY OWNERSHIP OR  
OTHER PROPERTY INTERESTS. PARCEL LINES,  
IF DEPICTED HAVE NOT BEEN FIELD VERIFIED  
AND MAY BE BASED UPON PUBLICLY  
AVAILABLE DATA THAT ALSO HAS NOT BEEN  
INDEPENDENTLY VERIFIED.



ASCENT GEOMATICS SOLUTIONS  
8620 WOLFF COURT  
WESTMINSTER, CO 80031  
(303) 928-7128

PREPARED FOR:  
**noble energy**

NOBLE ENERGY, INC.  
2001 16th STREET, SUITE 900  
DENVER, CO 80202  
(303) 228-4000

SHEET NAME:  
**CROSS SECTIONS**  
SURFACE LOCATION  
Y05-15 PAD  
SW 1/4 SE 1/4 SECTION 5,  
T2N, R64W, 6TH P.M.  
WELD COUNTY, COLORADO

REV.	DATE	REVISION DESCRIPTION	INT.
0	7/8/22	ISSUED FOR CONSTRUCTION	AS
1	8/5/22	ISSUED FOR CONSTRUCTION	AS
1			-
1			-
1			-
FIELD DATE: 6/2/2022			
DRAWING DATE: 6/15/2022			
DRAFTED BY: AS			
SHEET NO. 02 OF 03			



Y05-15 PAD  
GRADING PLAN


SITE QUANTITIES

TOTAL CUT FOR SITE (BANK)	13,694 CY
TOTAL FILL FOR SITE	13,527 CY
NET EXCESS MATERIAL	167 CY
RECLAIMED AREA	6.8 ACRES
PERMANENT DISTURBANCE AREA	1.9 ACRES
OIL & GAS LOCATION AREA	8.7 ACRES



ASCENT GEOMATICS SOLUTIONS  
8620 WOLFF COURT  
WESTMINSTER, CO 80031  
(303) 928-7128

PREPARED FOR:



NOBLE ENERGY, INC.  
2001 16th STREET, SUITE 900  
DENVER, CO 80202  
(303) 228-4000

SHEET NAME:

INTERIM-RECLAMATION LAYOUT

SURFACE LOCATION

Y05-15 PAD  
SW 1/4 SE 1/4 SECTION 5,  
T2N, R64W, 6TH P.M.  
WELD COUNTY, COLORADO

REV.	DATE	REVISION DESCRIPTION	INT.
0	7/8/22	ISSUED FOR CONSTRUCTION	AS
1	8/5/22	ISSUED FOR CONSTRUCTION	AS

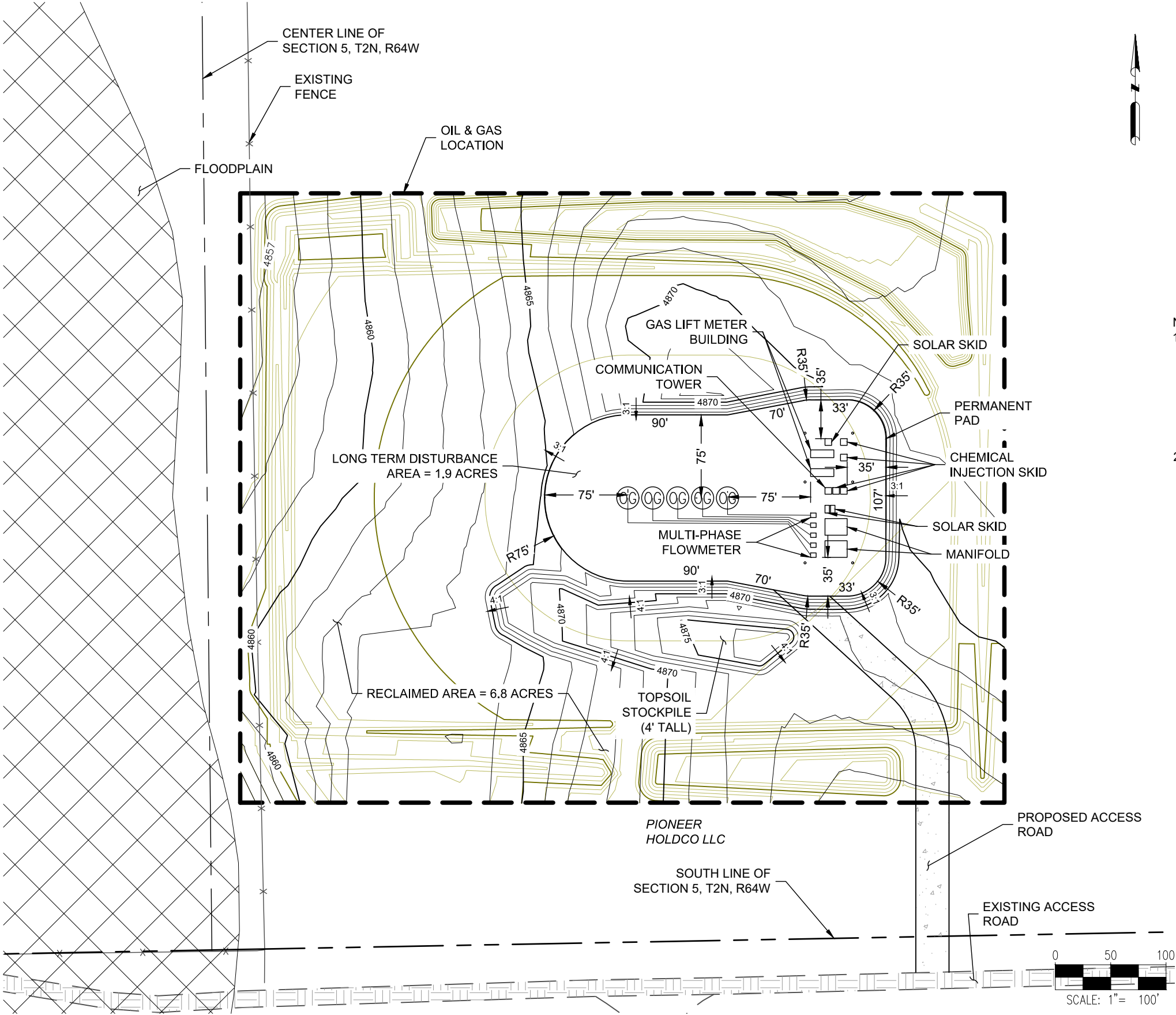
FIELD DATE:  
6/2/2022

DRAWING DATE:  
6/15/2022

DRAFTED BY:  
AS

SHEET NO.  
03 OF 03

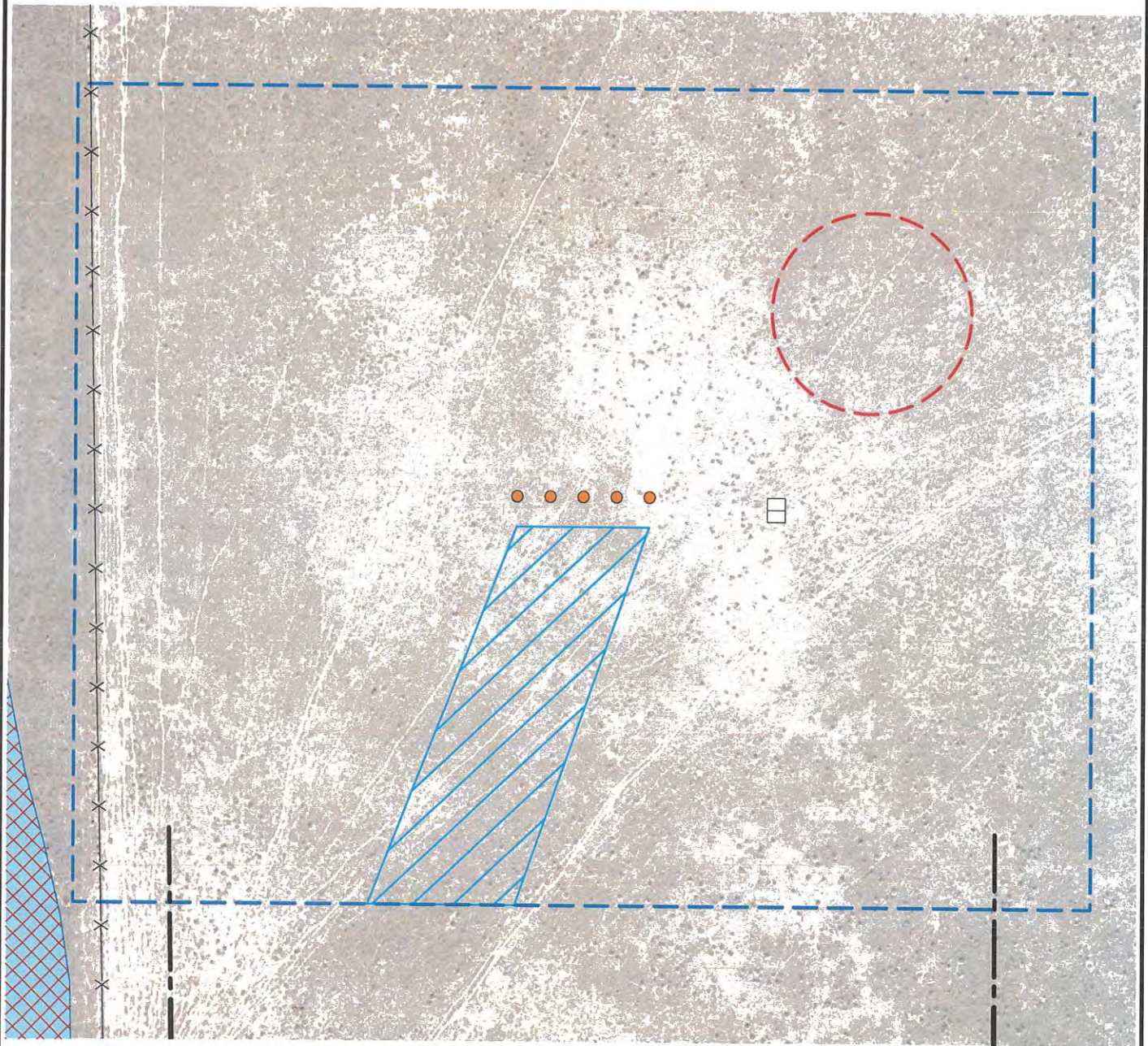
- NOTES:
- ASCENT GEOMATICS SOLUTIONS WAS NOT PROVIDED A TITLE REPORT FOR THIS SITE. ALL RECORDED DOCUMENTS REFERENCED ON THESE PLANS WERE DOWNLOADED FROM RESEARCH VIA THE WELD COUNTY CLERK AND RECORDER. ASCENT GEOMATICS SOLUTIONS MAKES NO GUARANTY OR WARRANTY, EITHER EXPRESSED OR IMPLIED, TO THE COMPLETENESS OF ENCUMBRANCES TO THE SUBJECT PROPERTY.
  - THE CUT AND FILL VOLUMES PROVIDED IN THIS DRAWING PACKAGE ASSUME A 9:10 RATIO FOR EXCAVATED TO PLACED EARTHWORKS VOLUMES (I.E. A 0.9 SHRINKAGE FACTOR HAS BEEN APPLIED TO CUT VOLUMES.)



DISCLAIMER:  
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED.



# Y05-15 PAD WOGLA FACILITY LAYOUT



## LEGEND

- = PROPOSED WELL
- = PROPOSED DISTURBANCE AREA
- = PROPOSED GAS LIFT METER BUILDINGS
- = PROPOSED MLVT
- ▨ = PROPOSED 100' FLOWLINE
- = PROPOSED ACCESS ROAD
- X X = FENCE
- ▨ = FLOODPLAIN

0 50 100  
SCALE: 1" = 100'

DISCLAIMER  
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE  
RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER  
PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND  
MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN  
INDEPENDENTLY VERIFIED

DATA SOURCE  
AERIAL IMAGE ASCENT 11/2017  
NHD USGS  
WATER WELLS: COLORADO DWR

PUBLICLY AVAILABLE DATA SOURCES HAVE NOT BEEN  
INDEPENDENTLY VERIFIED BY ASCENT



FIELD DATE  
09-22-18

DRAWING DATE  
03-27-19

BY  
DNS

CHECKED  
VQD

SITE NAME  
Y05-15 PAD

SURFACE LOCATION  
SW 1/4 SE 1/4 SEC. 5, T2N, R64W, 6TH P.M.  
WELD COUNTY, COLORADO

PREPARED FOR





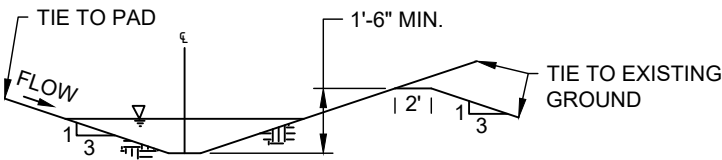
Y07-02 PAD  
GRADING PLAN

SITE QUANTITIES

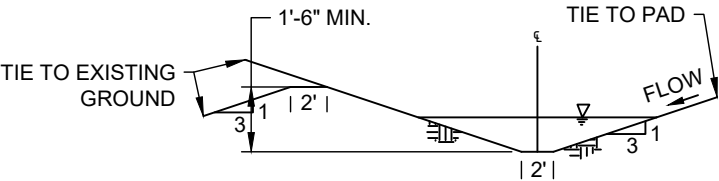
FINISHED GRADE ELEVATION	4881.4' - 4883.9'
ROUGH GRADE ELEVATION	4880.4' - 4882.9'
TOTAL CUT FOR SITE	6,871 CY
TOTAL FILL FOR SITE	6,603 CY
NET EXCESS MATERIAL	268 CY
TOPSOIL (6" DEPTH)	5,439 CY
OIL & GAS LOCATION AREA	10.1 ACRES
WORKING PAD SURFACE AREA	6.7 ACRES

PIONEER Y18-744	PIONEER Y18-725
PIONEER Y18-735	PIONEER Y18-715
PIONEER Y18-730	

- NOTES:
- ASCENT GEOMATICS SOLUTIONS WAS NOT PROVIDED A TITLE REPORT FOR THIS SITE. ALL RECORDED DOCUMENTS REFERENCED ON THESE PLANS WERE DOWNLOADED FROM RESEARCH VIA THE WELD COUNTY CLERK AND RECORDER. ASCENT GEOMATICS SOLUTIONS MAKES NO GUARANTY OR WARRANTY, EITHER EXPRESSED OR IMPLIED, TO THE COMPLETENESS OF ENCUMBRANCES TO THE SUBJECT PROPERTY.
  - THE SPOT CUT/FILL VALUES SHOWN ON THESE DRAWINGS ARE FOR PROPOSED GROUND VS. SCRAPED (I.E. TOPSOIL REMOVED) GROUND (E.G. +0.7 MEANTS THAT THE PROPOSED GROUND IS 0.7 FT ABOVE THE SCRAPED GROUND).
  - THE CUT AND FILL VOLUMES PROVIDED IN THIS DRAWING PACKAGE ASSUME A 9:10 RATIO FOR EXCAVATED TO PLACED EARTHWORKS VOLUMES (I.E. A 0.9 SHRINKAGE FACTOR HAS BEEN APPLIED TO CUT VOLUMES.)



CHANNEL 1 DETAIL  
N.T.S.



CHANNEL 2 DETAIL  
N.T.S.

DISCLAIMER:  
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED.



ASCENT GEOMATICS SOLUTIONS  
8620 WOLFF COURT  
WESTMINSTER, CO 80031  
(303) 928-7128



NOBLE ENERGY, INC.  
2001 16TH STREET, SUITE 900  
DENVER, CO 80202  
(303) 228-4000

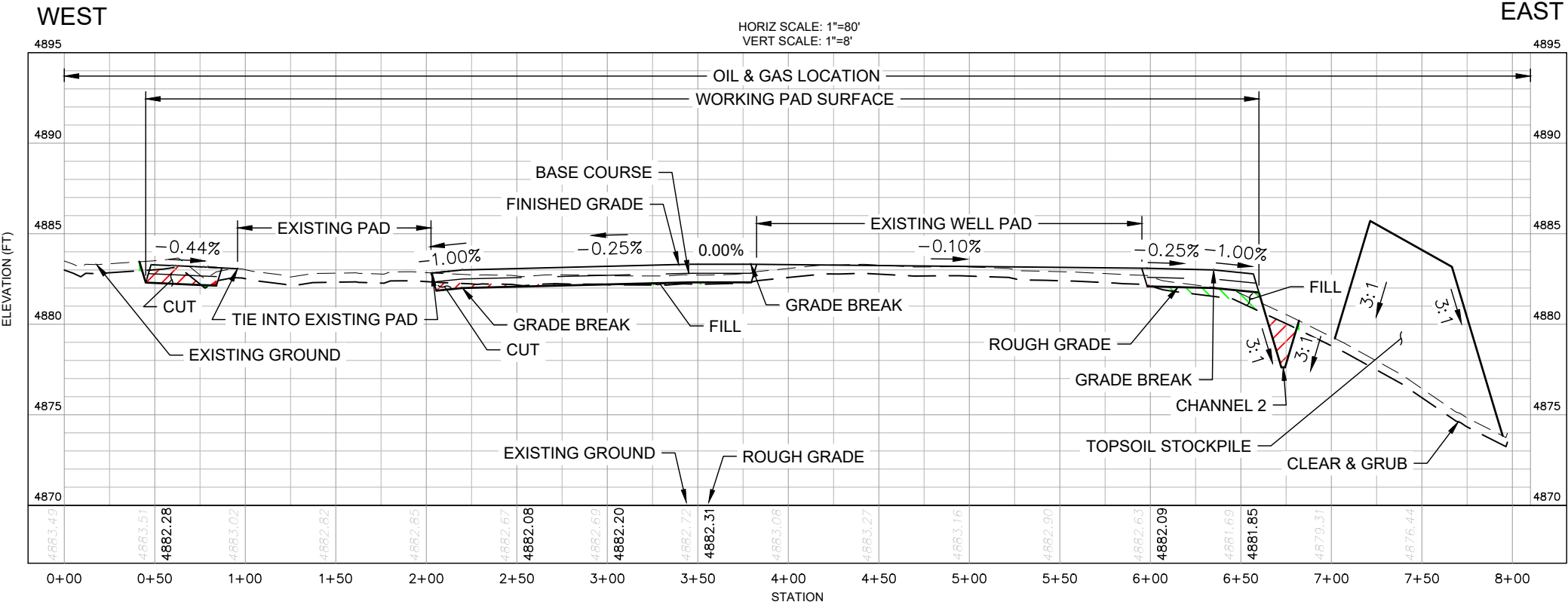
CONSTRUCTION LAYOUT  
SURFACE LOCATION  
Y07-02 PAD  
NW 1/4 NE 1/4 SECTION 7,  
T2N, R64W, 6TH P.M.  
WELD COUNTY, COLORADO

REV.	DATE	DESCRIPTION	INT.
0	7/21/22	ISSUED FOR CONSTRUCTION	AS
1			
2			
3			

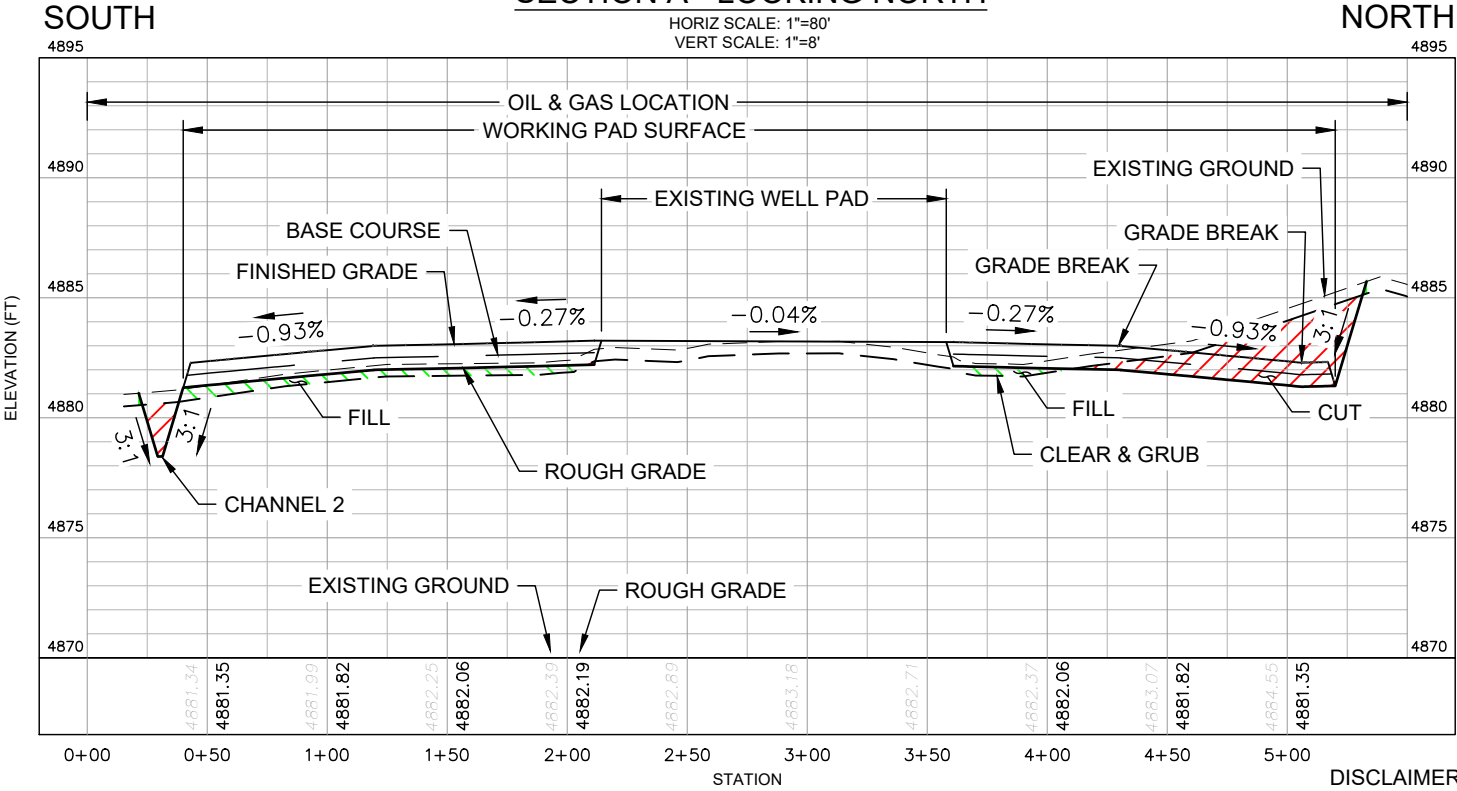
FIELD DATE:  
05/26/2022  
DRAWING DATE:  
07/21/2022  
DRAFTED BY:  
AS  
SHEET NO.  
01 OF 03



Y07-02 PAD  
GRADING PLAN



SECTION A - LOOKING NORTH



SECTION B - LOOKING WEST

DISCLAIMER:  
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY  
AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES,  
PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL  
LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE  
BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN  
INDEPENDENTLY VERIFIED.



ASCENT GEOMATICS SOLUTIONS  
8620 WOLFF COURT  
WESTMINSTER, CO 80031  
(303) 928-7128

PREPARED FOR:  
**noble energy**

NOBLE ENERGY, INC.  
2001 16TH STREET, SUITE 900  
DENVER, CO 80202  
(303) 228-4000

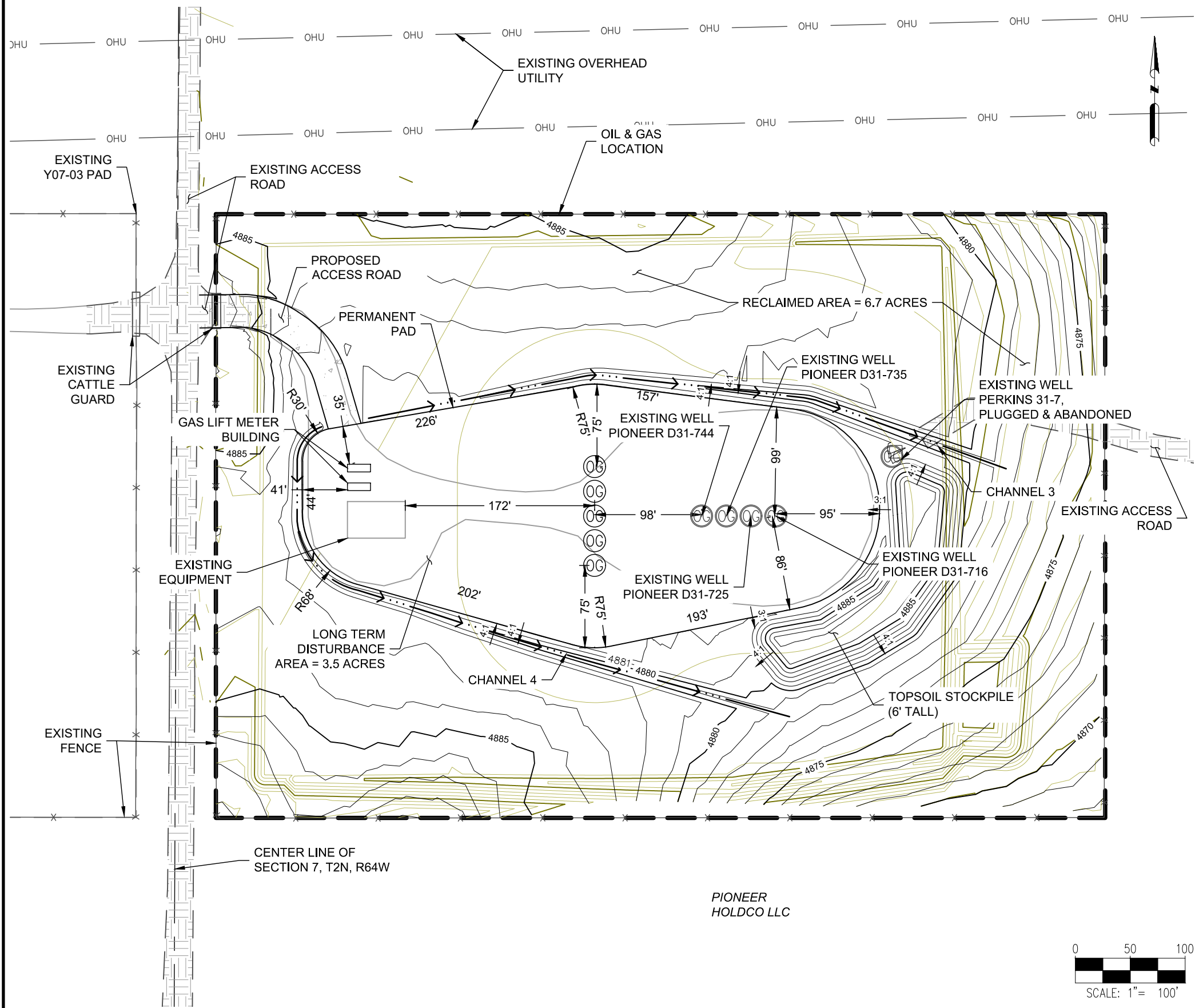
SHEET NAME:  
**CROSS SECTIONS**  
SURFACE LOCATION  
Y07-02 PAD  
NW 1/4 NE 1/4 SECTION 7,  
T2N, R64W, 6TH P.M.,  
WELD COUNTY, COLORADO

REV.	DATE	REVISION DESCRIPTION	INT.
0	7/21/22	ISSUED FOR CONSTRUCTION	AS
1			
2			
3			
4			

FIELD DATE:  
05/26/2022  
DRAWING DATE:  
07/21/2022  
DRAFTED BY:  
AS  
SHEET NO.  
02 OF 03



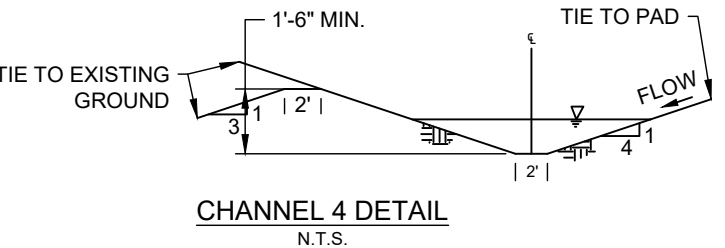
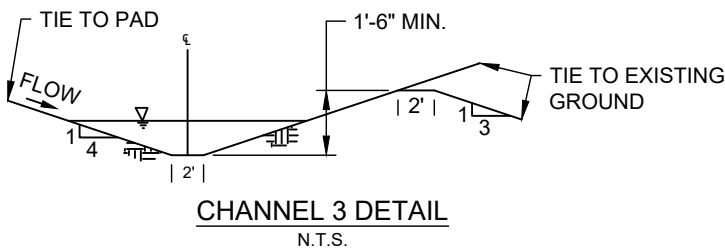
Y07-02 PAD  
GRADING PLAN



SITE QUANTITIES

TOTAL CUT FOR SITE	7,300 CY
TOTAL FILL FOR SITE	7,234 CY
NET EXCESS MATERIAL	66 CY
RECLAIMED AREA	6.6 ACRES
PERMANENT DISTURBANCE AREA	3.5 ACRES

- NOTES:
- ASCENT GEOMATICS SOLUTIONS WAS NOT PROVIDED A TITLE REPORT FOR THIS SITE. ALL RECORDED DOCUMENTS REFERENCED ON THESE PLANS WERE DOWNLOADED FROM RESEARCH VIA THE WELD COUNTY CLERK AND RECORDER. ASCENT GEOMATICS SOLUTIONS MAKES NO GUARANTY OR WARRANTY, EITHER EXPRESSED OR IMPLIED, TO THE COMPLETENESS OF ENCUMBRANCES TO THE SUBJECT PROPERTY.
  - THE SPOT CUT/FILL VALUES SHOWN ON THESE DRAWINGS ARE FOR PROPOSED GROUND VS. SCRAPED (I.E. TOPSOIL REMOVED) GROUND (E.G. +0.7 MEANTS THAT THE PROPOSED GROUND IS 0.7 FT ABOVE THE SCRAPED GROUND).
  - THE CUT AND FILL VOLUMES PROVIDED IN THIS DRAWING PACKAGE ASSUME A 9:10 RATIO FOR EXCAVATED TO PLACED EARTHWORKS VOLUMES (I.E. A 0.9 SHRINKAGE FACTOR HAS BEEN APPLIED TO CUT VOLUMES.)



DISCLAIMER:  
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED.

ASCENT GEOMATICS SOLUTIONS  
8620 WOLFF COURT  
WESTMINSTER, CO 80031  
(303) 928-7128

PREPARED FOR:

NOBLE ENERGY, INC.  
2001 16TH STREET, SUITE 900  
DENVER, CO 80202  
(303) 228-4000

SHEET NAME:

INTERIM RECLAMATION LAYOUT

SURFACE LOCATION

Y07-02 PAD  
NW 1/4 NE 1/4 SECTION 7,  
T2N, R64W, 6TH P.M.  
WELD COUNTY, COLORADO

INT.	AS	AS	AS	AS	AS
REV.	0	1	2	3	4
DATE	7/21/22				
DESCRIPTION	ISSUED FOR CONSTRUCTION				

FIELD DATE:

05/26/2022

DRAWING DATE:

07/21/2022

DRAFTED BY:

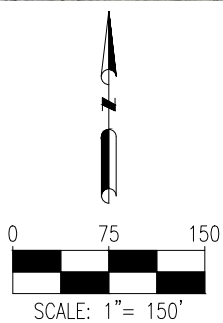
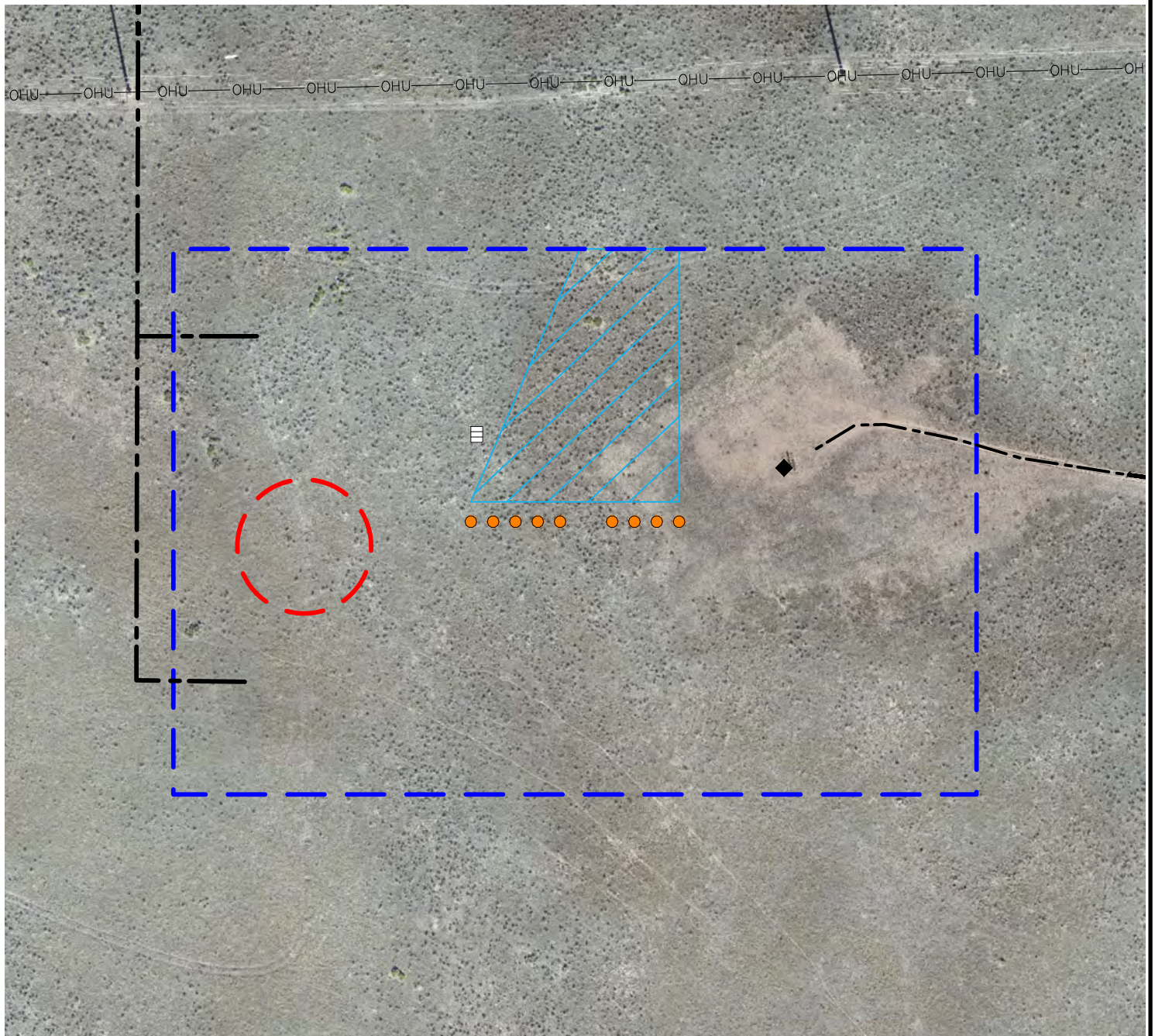
AS

SHEET NO.










03 OF 03



## WOGLA FACILITY LAYOUT



### LEGEND

- |   |                                     |   |                    |
|---|-------------------------------------|---|--------------------|
|  | = PROPOSED WELL                     |  | = EXISTING WELL    |
|  | = PROPOSED DISTURBANCE AREA         |  | = OVERHEAD UTILITY |
|  | = PROPOSED GAS LIFT METER BUILDINGS |  | = EXISTING ROAD    |
|  | = PROPOSED MLVT                     |   |                    |
|  | = PROPOSED 100' FLOWLINE            |   |                    |
|  | = PROPOSED ACCESS ROAD              |   |                    |

DISCLAIMER:  
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE  
RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER  
PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND  
MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN  
INDEPENDENTLY VERIFIED.

DATA SOURCE:  
AERIAL IMAGE: ASCENT 11/2017  
NHD: USGS  
WATER WELLS: COLORADO DWR

PUBLICLY AVAILABLE DATA SOURCES HAVE NOT BEEN  
INDEPENDENTLY VERIFIED BY ASCENT.



8620 Wolff Court  
Westminster, CO 80031  
(303) 928-7128  
[www.ascentgeomatics.com](http://www.ascentgeomatics.com)

FIELD DATE:  
09-22-18

DRAWING DATE:  
03-26-19

BY:  
DN

CHECKED:  
VQD

SITE NAME:  
Y07-02 PAD

SURFACE LOCATION:	
-------------------	--

NW 1/4 NE 1/4 SEC. 7, T2N, R64W, 6TH P.M.  
WELD COUNTY, COLORADO

PREPARED FOR:
---------------





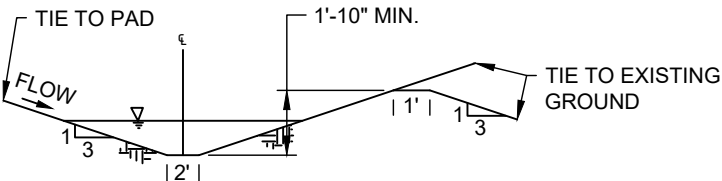
Y07-03 PAD  
GRADING PLAN

SITE QUANTITIES

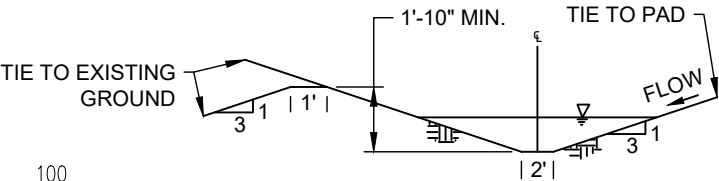
FINISHED GRADE ELEVATION	4885.4' - 4888.7'
ROUGH GRADE ELEVATION	4884.4' - 4887.7'
TOTAL CUT FOR SITE	13,923 CY
TOTAL FILL FOR SITE	13,623 CY
NET EXCESS MATERIAL	300 CY
TOPSOIL (6" DEPTH)	6,031 CY
OIL & GAS LOCATION AREA	10.2 ACRES
WORKING PAD SURFACE AREA	6.8 ACRES

PIONEER Y18-756	PIONEER Y18-775
PIONEER Y18-766	PIONEER Y18-785
PIONEER Y18-770	

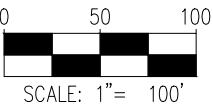
- NOTES:
- ASCENT GEOMATICS SOLUTIONS WAS NOT PROVIDED A TITLE REPORT FOR THIS SITE. ALL RECORDED DOCUMENTS REFERENCED ON THESE PLANS WERE DOWNLOADED FROM RESEARCH VIA THE WELD COUNTY CLERK AND RECORDER. ASCENT GEOMATICS SOLUTIONS MAKES NO GUARANTY OR WARRANTY, EITHER EXPRESSED OR IMPLIED, TO THE COMPLETENESS OF ENCUMBRANCES TO THE SUBJECT PROPERTY.
  - CULVERTS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
  - THE SPOT CUT/FILL VALUES SHOWN ON THESE DRAWINGS ARE FOR PROPOSED GROUND VS. SCRAPED (I.E. TOPSOIL REMOVED) GROUND (E.G. +0.7 MEANTS THAT THE PROPOSED GROUND IS 0.7 FT ABOVE THE SCRAPED GROUND).
  - THE CUT AND FILL VOLUMES PROVIDED IN THIS DRAWING PACKAGE ASSUME A 9:10 RATIO FOR EXCAVATED TO PLACED EARTHWORKS VOLUMES (I.E. A 0.9 SHRINKAGE FACTOR HAS BEEN APPLIED TO CUT VOLUMES.)



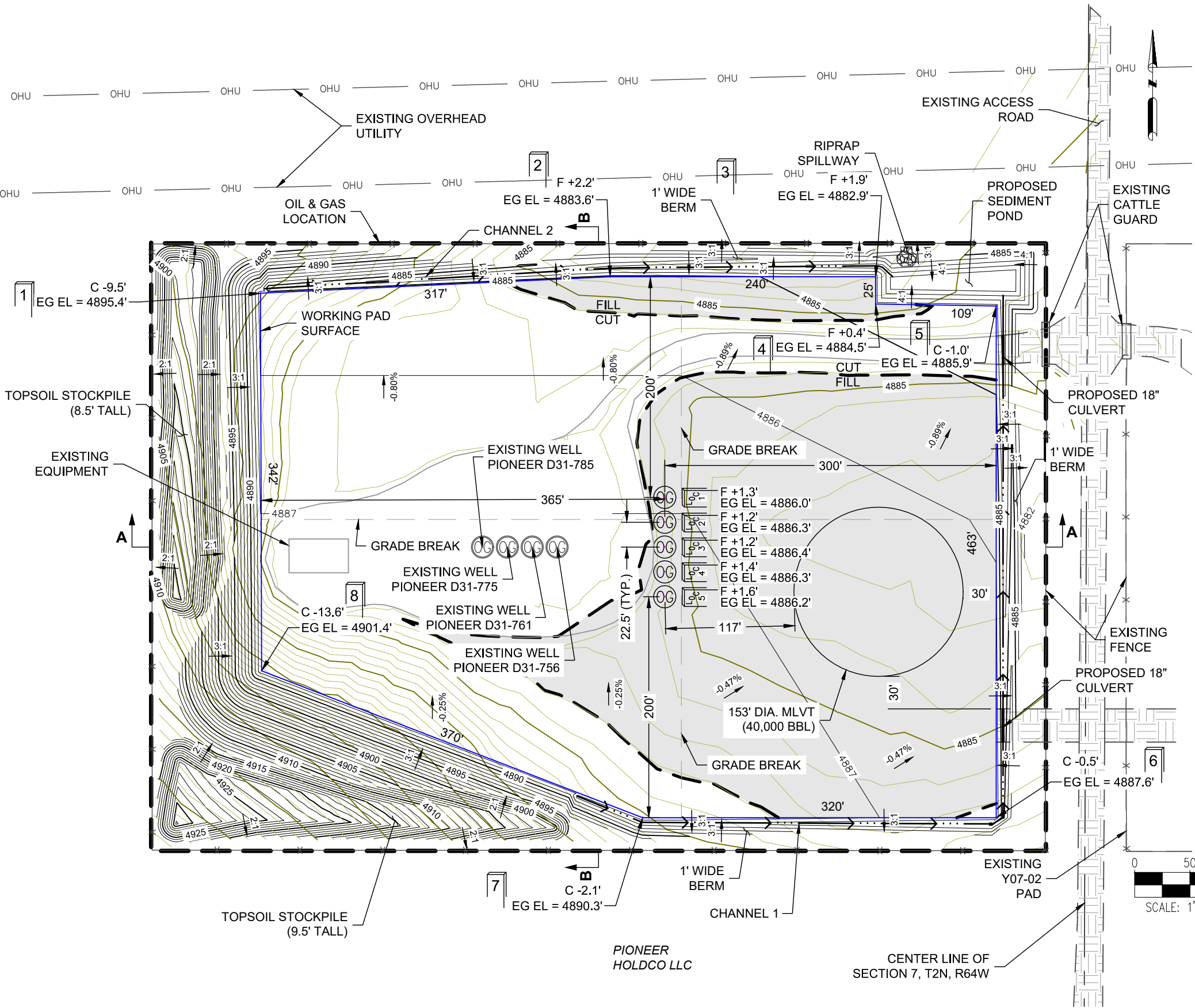
CHANNEL 1 DETAIL  
N.T.S.



CHANNEL 2 DETAIL  
N.T.S.



DISCLAIMER:  
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED.



ASCENT GEOMATICS SOLUTIONS  
8620 WOLFF COURT  
WESTMINSTER, CO 80031  
(303) 928-7128

PREPARED FOR:

NOBLE ENERGY, INC.  
2001 16TH STREET, SUITE 900  
DENVER, CO 80202  
(303) 228-4000

SHEET NAME:

CONSTRUCTION LAYOUT

SURFACE LOCATION

Y07-03 PAD

NE 1/4 NW 1/4 SECTION 7,  
T2N, R64W, 6TH P.M.  
WELD COUNTY, COLORADO

REV.	DATE	DESCRIPTION	INT.
0	7/21/22	ISSUED FOR CONSTRUCTION	AS

FIELD DATE:

05/26/2022

DRAWING DATE:

07/21/2022

DRAFTED BY:

AS

SHEET NO.

01 OF 03



HORIZ SCALE: 1"=80'  
VERT SCALE: 1"=8'



ASCENT GEOMATICS SOLUTIONS  
8620 WOLFF COURT  
WESTMINSTER, CO 80031  
(303) 928-7128

PREPARED FOR:



NOBLE ENERGY, INC.  
2001 16TH STREET, SUITE 900  
DENVER, CO 80202  
(303) 228-4000

## CROSS SECTIONS

Y07-03 PAD  
NE 1/4 NW 1/4 SECTION 7,  
T2N, R64W, 6TH P.M.  
WELD COUNTY, COLORADO

0	7/21/22	ISSUED FOR CONSTRUCTION	AS
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

FIELD DATE:  
05/26/2022

DRAWING DATE:  
07/21/2022

DRAFTED BY:  
AS

02 OF 03




Y07-03 PAD  
GRADING PLAN

SITE QUANTITIES

TOTAL CUT FOR SITE (BANK)	13,206 CY
TOTAL FILL FOR SITE	12,856 CY
NET EXPORT MATERIAL	350 CY
RECLAIMED AREA	6.8 ACRES
PERMANENT DISTURBANCE AREA	3.4 ACRES



ASCENT GEOMATICS SOLUTIONS  
8620 WOLFF COURT  
WESTMINSTER, CO 80031  
(303) 928-7128



NOBLE ENERGY, INC.  
2001 16TH STREET, SUITE 900  
DENVER, CO 80202  
(303) 228-4000

SHEET NAME:  
INTERIM RECLAMATION LAYOUT

SURFACE LOCATION  
Y07-03 PAD  
NE 1/4 NW 1/4 SECTION 7,  
T2N, R64W, 6TH P.M.  
WELD COUNTY, COLORADO

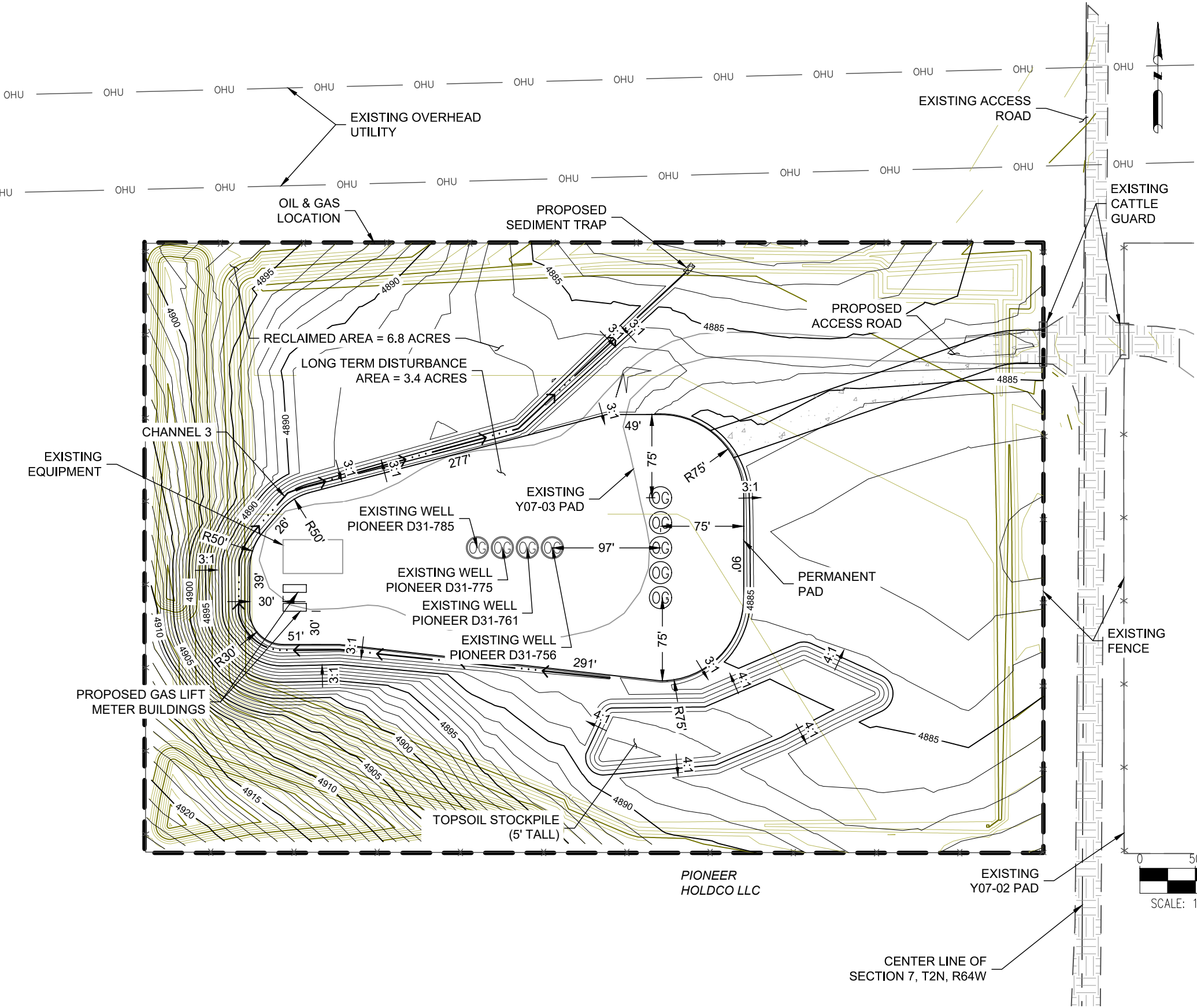
REV.	DATE	REVISION DESCRIPTION	INT.
0	7/21/22	ISSUED FOR CONSTRUCTION	AS
1			
2			
3			

FIELD DATE:  
05/26/2022

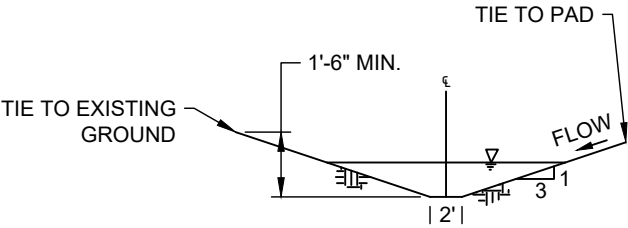
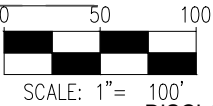
DRAWING DATE:  
07/21/2022

DRAFTED BY:  
AS

SHEET NO.  
03 OF 03



- NOTES:
1. ASCENT GEOMATICS SOLUTIONS WAS NOT PROVIDED A TITLE REPORT FOR THIS SITE. ALL RECORDED DOCUMENTS REFERENCED ON THESE PLANS WERE DOWNLOADED FROM RESEARCH VIA THE WELD COUNTY CLERK AND RECORDER. ASCENT GEOMATICS SOLUTIONS MAKES NO GUARANTY OR WARRANTY, EITHER EXPRESSED OR IMPLIED, TO THE COMPLETENESS OF ENCUMBRANCES TO THE SUBJECT PROPERTY.
  2. THE SPOT CUT/FILL VALUES SHOWN ON THESE DRAWINGS ARE FOR PROPOSED GROUND VS. SCRAPED (I.E. TOPSOIL REMOVED) GROUND (E.G. +0.7 MEANS THAT THE PROPOSED GROUND IS 0.7 FT ABOVE THE SCRAPED GROUND).
  3. THE CUT AND FILL VOLUMES PROVIDED IN THIS DRAWING PACKAGE ASSUME A 9:10 RATIO FOR EXCAVATED TO PLACED EARTHWORKS VOLUMES (I.E. A 0.9 SHRINKAGE FACTOR HAS BEEN APPLIED TO CUT VOLUMES.)

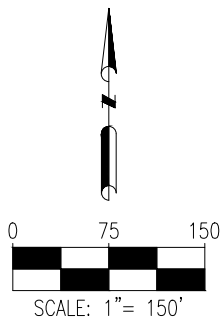
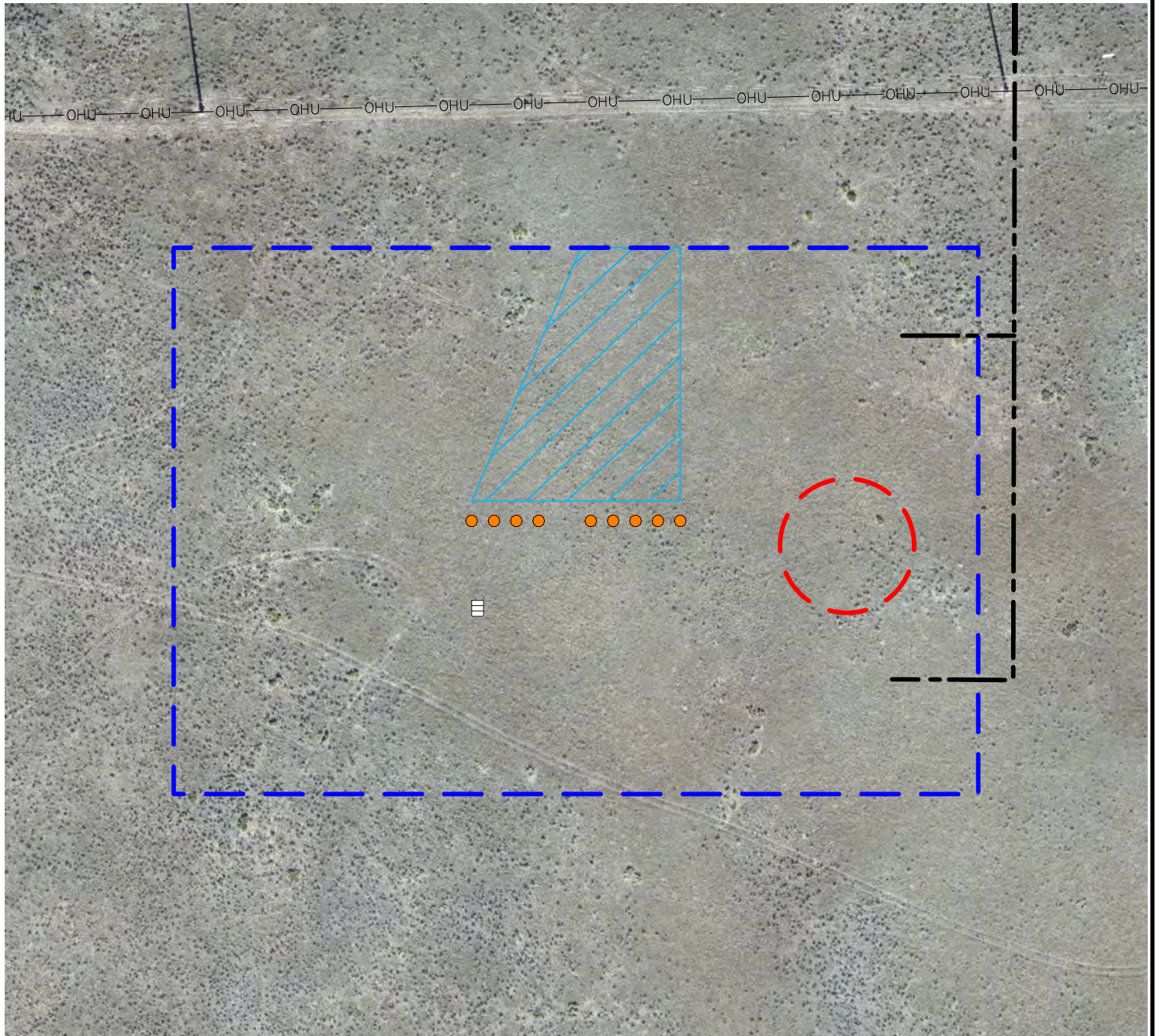


CHANNEL 3 DETAIL  
N.T.S.

DISCLAIMER:  
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED.



# Y07-03 PAD WOGLA FACILITY LAYOUT



## LEGEND

- = PROPOSED WELL
- = PROPOSED DISTURBANCE AREA
- = PROPOSED GAS LIFT METER BUILDINGS
- = PROPOSED MLVT
- ▨ = PROPOSED 100' FLOWLINE
- = PROPOSED ACCESS ROAD
- OHU— = OVERHEAD UTILITY

**DISCLAIMER:**  
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED.

**DATA SOURCE:**  
AERIAL IMAGE: ASCENT 11/2017  
NHD: USGS  
WATER WELLS: COLORADO DWR  
  
PUBLICLY AVAILABLE DATA SOURCES HAVE NOT BEEN INDEPENDENTLY VERIFIED BY ASCENT.



8620 Wolff Court  
Westminster, CO 80031  
(303) 928-7128  
www.ascentgeomatics.com

FIELD DATE:  
09-22-18

DRAWING DATE:  
03-26-19

BY:  
DNS

CHECKED:  
VQD

SITE NAME:  
Y07-03 PAD

SURFACE LOCATION:  
NE 1/4 NW 1/4 SEC. 7, T2N, R64W, 6TH P.M.  
WELD COUNTY, COLORADO

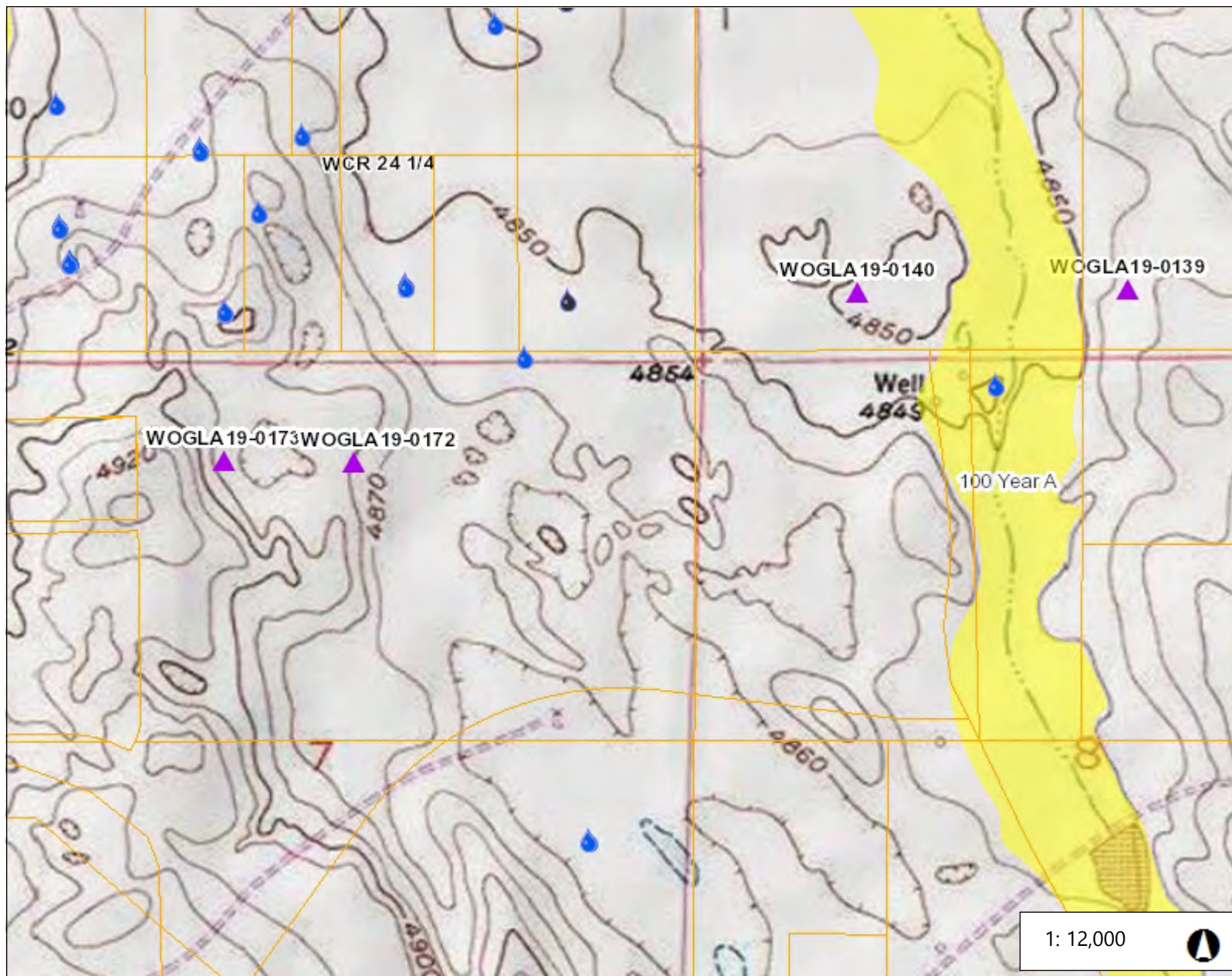
PREPARED FOR:





**EXHIBIT E**  
**VICINITY MAPS**





## Legend

### Water Wells

- Unknown
- Application Denied
- Application Unacceptable
- Application Withdrawn
- Permit Canceled
- Permit Expired
- Permit Extended
- Permit Issued; Completion Status L
- Well Abandoned
- Well Constructed

### Parcels

- Floodplain - 500 Year
- Floodplain - 100 Year Zone A
- Floodplain - 100 Year Floodwa
- Floodplain - 100 Year Zone AE
- Floodplain - 100 Year Zone AF
- Floodplain - 100 Year Zone AC
- Preliminary Floodplain - 500 Yr
- Preliminary Floodplain - 100 Yr
- Preliminary Floodplain - 100 Yr
- Preliminary Floodplain - 100 Yr
- Preliminary Floodplain - 100 Yr
- Weld Oil and Gas Location Ass
- Highway
- County Boundary

## Notes

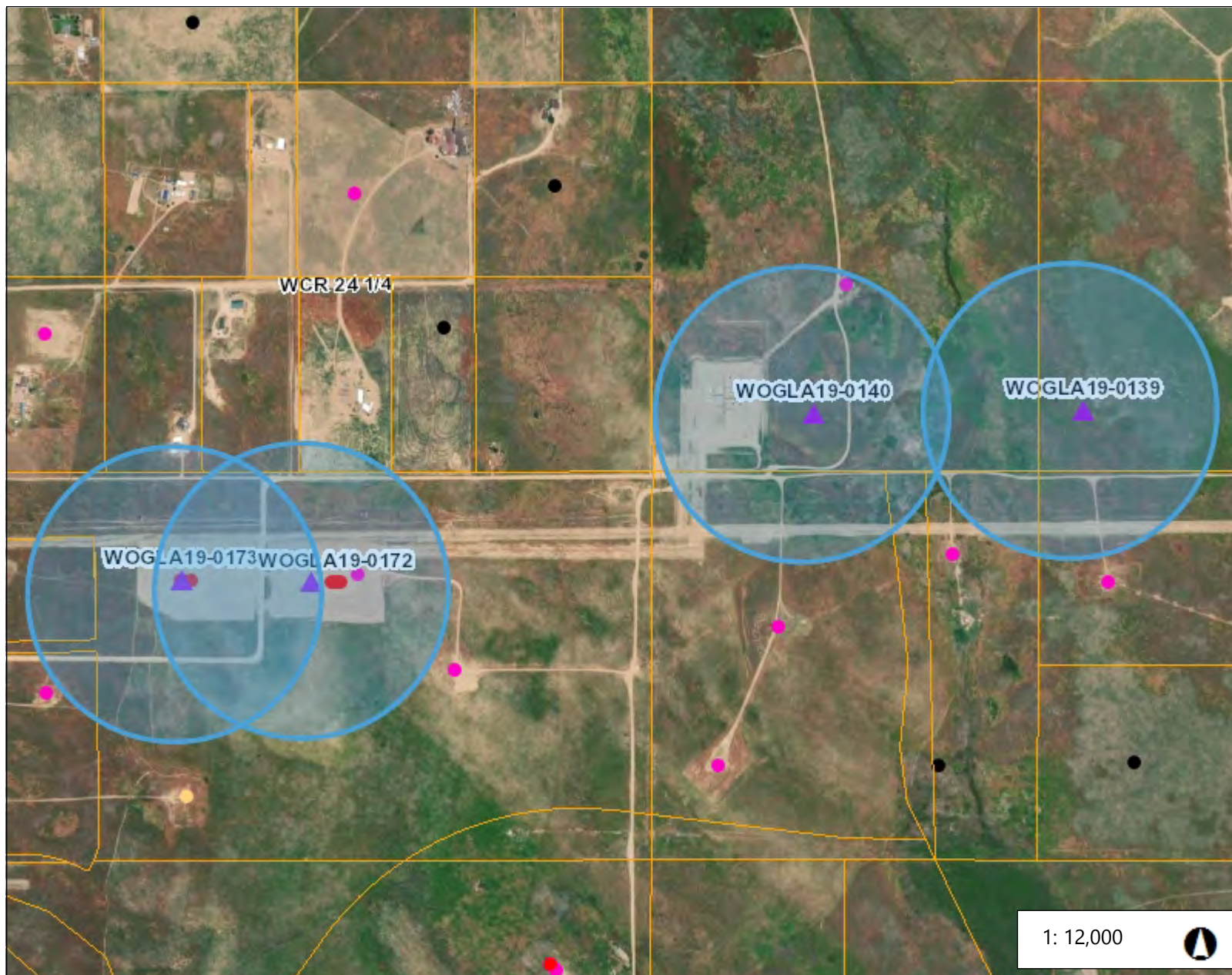
2,000.0 0 1,000.00 2,000.0 Feet

WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere  
© Weld County Colorado

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION





## Legend

- Parcels
- Weld Oil and Gas Location As:
  - Oil and Gas Wells - Active
    - Producing
    - Permit
    - Drilling
    - Injection
    - Shut-In
    - Temporarily Abandoned
    - Waiting on Completion
    - Gas Storage / Monitoring
  - Oil and Gas Wells - Inactive
    - Abandoned Location
    - Plugged and Abandoned
    - Dry and Abandoned
    - Other
- Highway
- County Boundary

## Notes

2,000.0 0 1,000.00 2,000.0 Feet

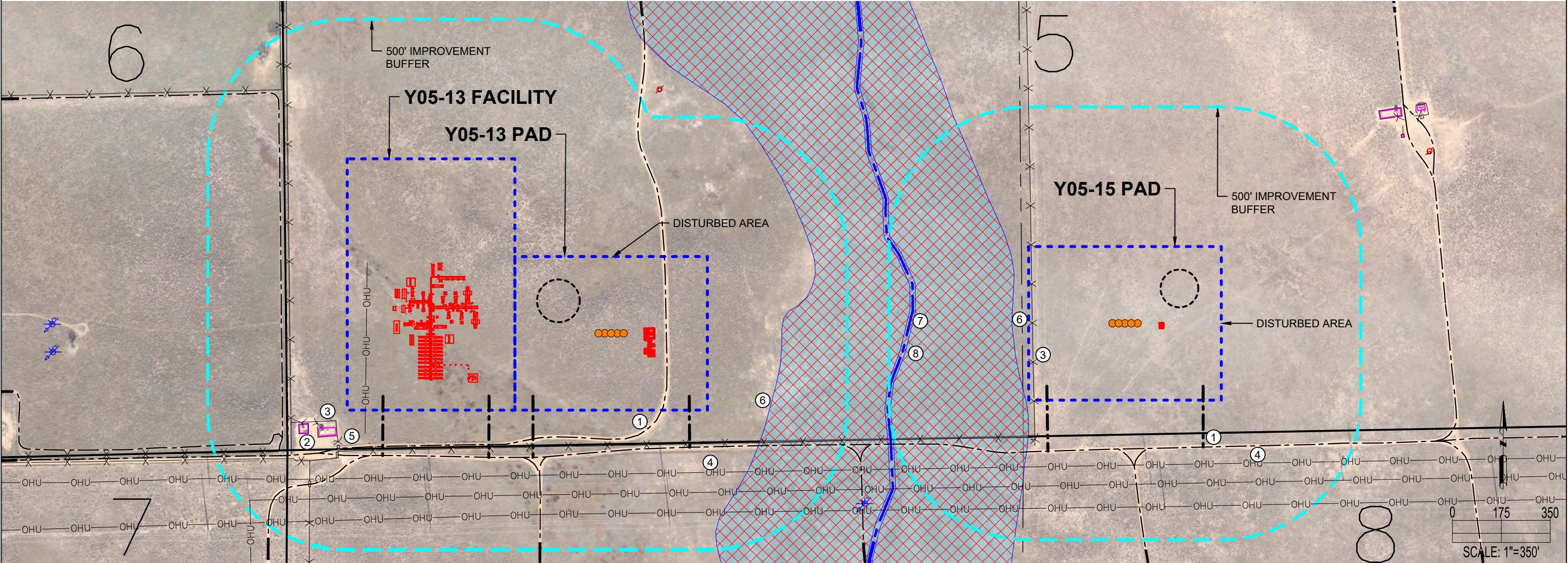
WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere  
© Weld County Colorado

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION



Y05-13 MULTI & Y05-15 PAD  
LOCATION DRAWING



Y05-13 MULTI


IMPROVEMENTS: (AS MEASURED FROM THE PROPOSED EDGE OF DISTURBANCE)	
1. PRIVATE ROAD:	0', ±131' S, ±163' S, ±213' W, ±231' W, ±231' S, ±274' SW
2. EXISTING PRODUCTION EQUIPMENT (NOBLE):	±75' SW, ±150' SW
3. FENCE:	±55' SW, ±120' S, ±147' SW, ±175' SW, ±202± W, ±226' SW, ±313± SW, ±337 NW
4. OVERHEAD UTILITY:	±0', ±223' S, ±294' S, ±366' S
5. CATTLE GUARD:	±129' SW, ±155' SW, ±285' SW
6. FLOODPLAIN:	±214' E
7. INTERMITTENT STREAM:	N/A
PROPERTY LINE:	±115' S, ±216' W, ±258' SW

Y05-15 PAD

IMPROVEMENTS: (AS MEASURED FROM THE PROPOSED EDGE OF DISTURBANCE)	
1. PRIVATE ROAD:	±166' S, ±238' S
2. EXISTING PRODUCTION EQUIPMENT (NOBLE):	N/A
3. FENCE:	0', ±133' S
4. OVERHEAD UTILITY:	±227' S, ±295' S, ±378' S
5. CATTLE GUARD:	N/A
6. FLOODPLAIN:	±10' W
7. INTERMITTENT STREAM:	±415' W
8. WETLAND:	±405' W
PROPERTY LINE:	±20' W, ±177' S

DISCLAIMER:  
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED.

CURRENT SURFACE USE: RANGELAND  
FUTURE SURFACE USE: RANGELAND


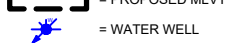
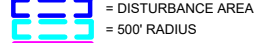
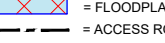

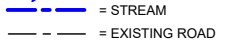
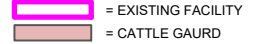
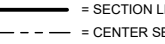













8620 Wolff Court  
Westminster, CO 80031  
(303) 928-7128  
www.ascentgeomatics.com

FIELD DATE: 09-22-18	DRAWING DATE: 03-04-22
DRAWN BY: IJM	CHECKED BY: RMC

SITE NAME: Y05-13 MULTI & Y05-15 PAD	DATA SOURCE: AERIAL IMAGERY: ASCENT 11/2017 WATER WELLS: COLORADO DWR NHD: USGS
SURFACE LOCATION: SEC. 5, T2N, R64W, 6TH P.M. WELD COUNTY, COLORADO	PUBLICLY AVAILABLE DATA SOURCES HAVE NOT BEEN INDEPENDENTLY VERIFIED BY ASCENT.

LEGEND:

 = PROPOSED WELL	 = PROPOSED MLVT	 = PROPOSED FACILITIES	 = WETLAND
 = EXISTING WELL	 = WATER WELL	 = DISTURBANCE AREA	 = FLOODPLAIN
 = FENCE	 = STREAM	 = 500' RADIUS	 = ACCESS ROAD
 = OVERHEAD UTILITY	 = EXISTING ROAD	 = EXISTING FACILITY	 = SECTION LINE
		 = CATTLE GAURD	 = CENTER SECTION LINE





# Y07-02 PAD WOGLA LOCATION DRAWING



1. PIONEER Y18-744
2. PIONEER Y18-735
3. PIONEER Y18-730
4. PIONEER Y18-725
5. PIONEER Y18-715
6. PIONEER D31-744
7. PIONEER D31-735
8. PIONEER D31-725
9. PIONEER D31-716
10. PRIVATE ROADS ARE  $\pm 263'$  E,  $\pm 706'$  N,  $\pm 731'$  NW,  $\pm 741'$  NW,  $\pm 781'$  NE,  $\pm 1047'$  SE,  $\pm 1202'$  NW
11. FENCES ARE  $\pm 229'$  E,  $\pm 697'$  N,  $\pm 718'$  N,  $\pm 770'$  NW,  $\pm 1115'$  N,  $\pm 1137'$  SE,  $\pm 1194'$  SE,  $\pm 1222'$  NW,  $\pm 1237'$  NE,  $\pm 1373'$  NE
12. OVERHEAD UTILITIES ARE  $\pm 443'$  N,  $\pm 627'$  N
13. BUILDINGS ARE  $\pm 1325'$  NW,  $\pm 1350'$  NW
14. BUILDING UNIT IS  $\pm 1401'$  NW
15. WATER WELLS ARE  $\pm 1225'$  N,  $\pm 1291'$  NE,  $\pm 1397'$  NW
16. EXISTING OIL & GAS WELLS ARE  $\pm 232'$  E,  $\pm 1066'$  SE
17. EXISTING PRODUCTION EQUIPMENT (NOBLE) IS  $\pm 1199'$  SE,  $\pm 1143'$  SE,  $\pm 1238'$  SE

## LEGEND:

- = PROPOSED WELL
- ◆ = EXISTING WELL
- ✦ = WATER WELL
- = PROPOSED ACCESS ROAD
- OHU — = OVERHEAD UTILITY LINE
- X-X-X- = FENCE
- = BUILDING UNIT
- = BUILDING
- = EXISTING ROAD
- = PROPOSED MLVT
- = DISTURBANCE AREA
- = 1000' RADIUS
- = EXISTING FACILITY BERM

DATA SOURCE:  
AERIAL IMAGERY: NAIP 2017, ASCENT 11/2017  
WATER WELLS: COLORADO DWR  
NHD: USGS

PUBLICLY AVAILABLE DATA SOURCES HAVE NOT BEEN INDEPENDENTLY VERIFIED BY ASCENT.

DISCLAIMER:  
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED. SURFACE IMPROVEMENTS BEYOND THE 500' COGCC BUFFER MAY NOT BE SURVEY GRADE. SAID IMPROVEMENTS MAY HAVE BEEN LOCATED USING PUBLICLY AVAILABLE SOURCES.

## DISTURBANCE ACREAGE:

10.2 ACRES DRILLING OPERATIONS  
3.1 ACRES INTERIM RECLAIM

CURRENT SURFACE USE: RANGELAND  
FUTURE SURFACE USE: RANGELAND

## REFERENCE LOCATION

\*\*PIONEER Y18-715\*\*

LAT: 40.15805° N  
LONG: 104.59256° W  
ELEVATION: 4882'  
704' FNL & 2194' FEL  
PDOP: 1.6

GPS OPERATOR: DOMINICK DAVIS



8620 Wolff Court  
Westminster, CO 80031  
(303) 928-7128  
www.ascentgeomatics.com

FIELD DATE:

09-22-18

DRAWING DATE:

03-25-19

BY:

DNS

CHECKED:

VQD

SITE NAME:

Y07-02 PAD

SURFACE LOCATION:

NW 1/4 NE 1/4 SEC. 7, T2N, R64W, 6TH P.M.

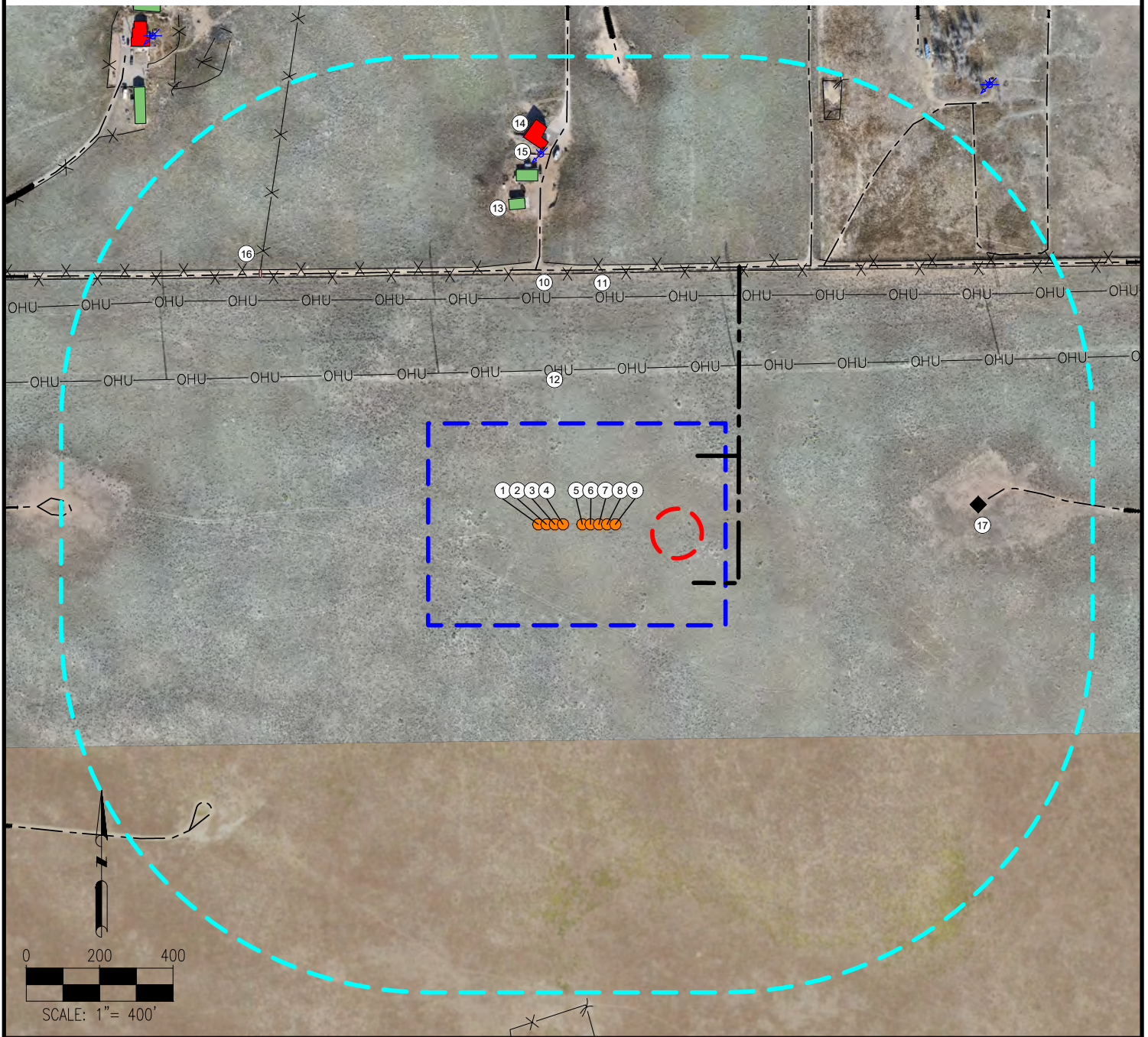
WELD COUNTY, COLORADO

PREPARED FOR:





# Y07-03 PAD WOGLA LOCATION DRAWING



1. PIONEER D31-785
2. PIONEER D31-775
3. PIONEER D31-761
4. PIONEER D31-756
5. PIONEER Y18-785
6. PIONEER Y18-775
7. PIONEER Y18-770
8. PIONEER Y18-766
9. PIONEER Y18-756
10. PRIVATE ROADS ARE ±692' N, ±705' N, ±940' NE, ±963' NE, ±1108' E, ±1261' N, ±1271' SW, ±1319' NE, ±1392' W
11. FENCES ARE ±683' N, ±706' N, ±728' N, ±968' NE, ±1077' E, ±1118' NW, ±1285' NE
12. OVERHEAD UTILITIES ARE ±422' N, ±618' N
13. BUILDINGS ARE ±874' N, ±943' N
14. BUILDING UNIT IS ±1025' N
15. WATER WELL IS ±1015' N
16. CATTLE GUARD IS ±1103' NW
17. OIL & GAS WELL IS ±1080' E

## LEGEND:

- = PROPOSED WELL
- ✱ = WATER WELL
- ◆ = EXISTING WELL
- OHU — = OVERHEAD UTILITY LINE
- X — X — = FENCE
- — — = EXISTING ROAD
- = BUILDING UNIT
- = BUILDING
- = PROPOSED ACCESS ROAD
- = DISTURBANCE AREA
- = PROPOSED MLVT
- = 1000' RADIUS
- = CATTLE GUARD

DATA SOURCE:  
AERIAL IMAGERY: ASCENT 11/2017, NAIP 2017  
WATER WELLS: COLORADO DWR  
NHD: USGS

PUBLICLY AVAILABLE DATA SOURCES HAVE NOT BEEN INDEPENDENTLY VERIFIED BY ASCENT.

DISCLAIMER:  
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED. SURFACE IMPROVEMENTS BEYOND THE 500' COGCC BUFFER MAY NOT BE SURVEY GRADE. SAID IMPROVEMENTS MAY HAVE BEEN LOCATED USING PUBLICLY AVAILABLE SOURCES.

## DISTURBANCE ACREAGE:

10.2 ACRES DRILLING OPERATIONS  
3.1 ACRES INTERIM RECLAIM

CURRENT SURFACE USE: RANGELAND  
FUTURE SURFACE USE: RANGELAND

## REFERENCE LOCATION

\*\*PIONEER Y18-785\*\*

LAT: 40.15807° N  
LONG: 104.59561° W  
ELEVATION: 4885'  
683' FNL & 2043' FWL  
PDOP: 1.4

GPS OPERATOR: DOMINICK DAVIS



8620 Wolff Court  
Westminster, CO 80031  
(303) 928-7128  
www.ascentgeomatics.com

FIELD DATE:

09-22-18

DRAWING DATE:

03-25-19

BY:

DNS

CHECKED:

VQD

SITE NAME:

Y07-03 PAD

SURFACE LOCATION:

NE 1/4 NW 1/4 SEC. 7, T2N, R64W, 6TH P.M.  
WELD COUNTY, COLORADO

PREPARED FOR:





**EXHIBIT F**  
**HAUL ROUTE MAP**



DP 412/425S WELL PADS  
PROPOSED HEAVY HAUL ROUTES



→ Ingress Route

→ Egress Route





**EXHIBIT G**  
**TRAFFIC NARRATIVE**



**EXHIBIT G**  
**TRAFFIC NARRATIVE**

The proposed traffic routes for heavy trucks are provided in Exhibit F. Noble has an approved access from Weld County Road (WCR) 49 (AP18-00781) that will only be used by light vehicles. During periods of increased numbers of heavy trucks (e.g., drilling rig moves), Noble will contract certified traffic control firms to place flaggers where WCR's 51 and 53 intersect WCR 18 to ensure the safety of the traveling public. Heavy truck traffic from WCR 49 to WCR 18 is estimated to be approximately 60% from the north and 40% from the south.

The following are traffic estimates for the various phases of operations from the approved WOGLA's for these well pads, however, due to efficiencies Noble has experienced in recent years, it is very likely that the durations for these activities will be significantly less than what was originally estimated. Note that these durations are for each well pad but, due to the simultaneous/sequential scheduling of certain operations (e.g., pad construction), the traffic associated with equipment mobilization will not occur for each pad.

The estimated duration at this oil and gas location will be 25 days for construction operations, 90 days for drilling operations and 90 days for completion operations.

**Construction Operations:**

During the 25 days of construction operations, the expected number of roundtrips will be approximately 60 Semi-Truck/Trailer trips per day.

**Drilling Operations:**

During the first two days and last two days of drilling operations, the expected number of per day roundtrips will be approximately 30 Passenger Car/Pickups and 50 Semi-Truck/Trailer. For the remaining 86 days, Passenger Car/Pickups will be reduced to 20 trips per day and Semi-Truck/Trailer and Tandem Trucks to 20 trips per day.

**Completion Operations:**

During the first two days and last two days of completion operations, the expected number of per day roundtrips will be approximately 20 Passenger Car/Pickups and 50 Semi-Truck/Trailer.

During the actual hydraulic fracturing activity which will begin after the initial two days described above and consist of the next 30 days, there will be approximately 30 Passenger Car/Pickups and 70 Semi-Truck/Trailer round trips per day.



During the mill-out and tube up phase which will begin after the hydraulic fracturing activity described above and consist of the next 18 days, there will be approximately 3 Passenger Car/Pickups and 6 Semi-Truck/Trailer round trips per day.



**EXHIBIT H**

**TACTICAL RESPONSE PLANS**





## Y05-13 Multi

Keenesburg, Weld County, Colorado  
T2N R64W

Lat: 40.16119 °N (40.16119)  
Long: 104.58065 °W (-104.58065)

**All Emergencies will be reported  
through 911**

### NOTIFICATIONS

1. National Response Center:  
800-424-8802
2. Noble Emergency Response:  
888-634-7928  
970-304-5000
3. Colorado Department of Natural Resources:  
303-866-3311
4. EPA Region VIII  
303-312-6312
5. Weld County OEM  
970-304-6540

### RESPONSE OBJECTIVES

Minimize the impact to the environment and local community. Contain and recover released product to the extent possible.

### CRITICAL RECEPTORS

1. Intermittent Stream
2. Nearby Power Lines
3. Nearby Oil and Gas Facilities
4. Nearby Floodplain
5. Nearby Windmill
6. Nearby Buildings
7. Nearby Building Units

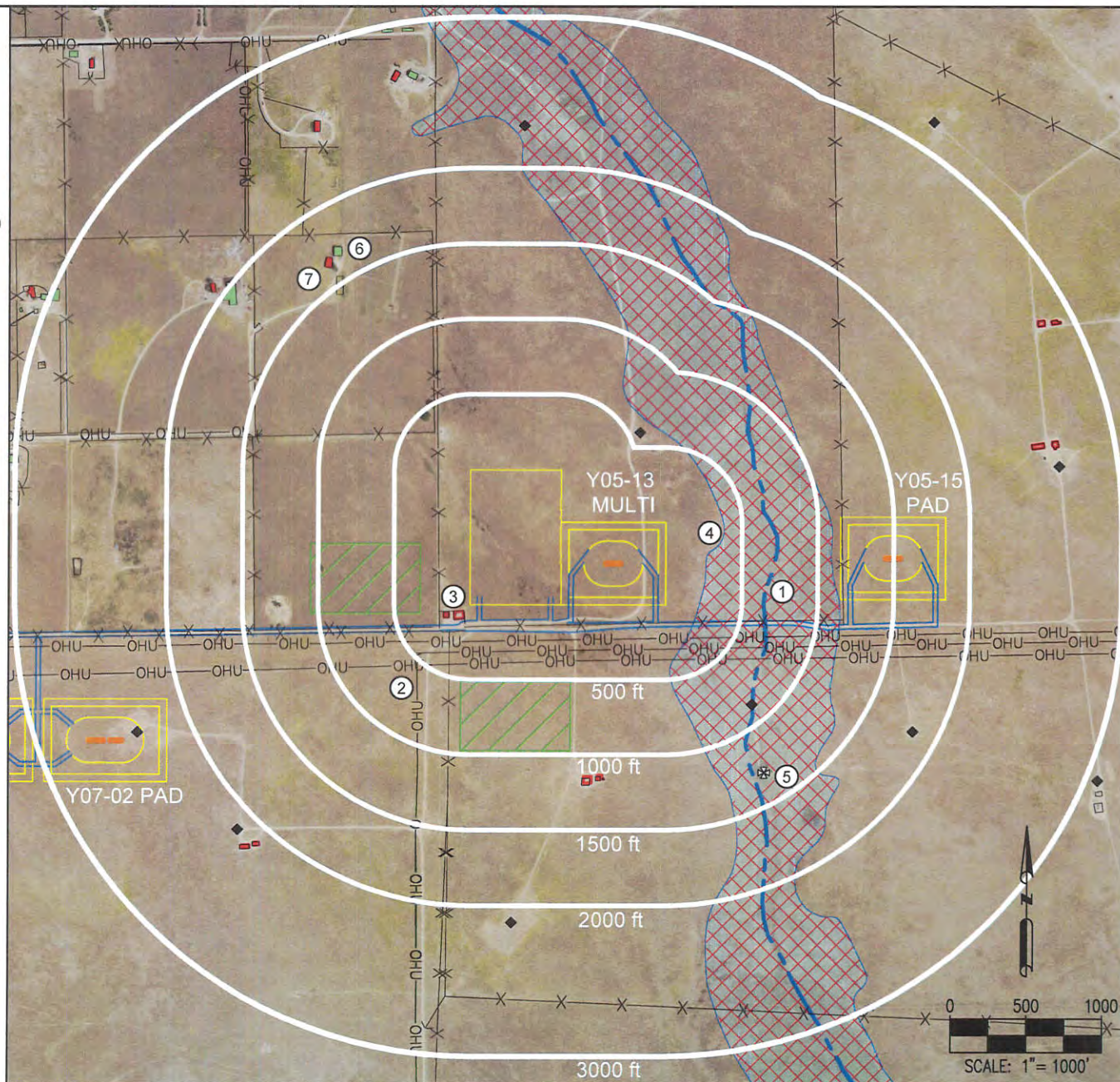
Note: This Tactical Response Card is a reference tool and is intended to provide guidance during an actual event or exercise. Placement of resources may need to be adjusted according to environmental variables. It is the responsibility of emergency response personnel to be trained in response and to be able to make adjustments to the card as needed.

#### DATA SOURCES:

-AERIAL IMAGERY: NAIP 2017  
-HYDROLOGY: NHD

PUBLICLY AVAILABLE DATA  
SOURCES HAVE NOT BEEN  
INDEPENDENTLY VERIFIED  
BY ASCENT.

This plot does not represent a monumented land survey and should not be relied upon to determine boundary lines, property ownership or other property interests. Parcel lines, if depicted have not been field verified and may be based upon publicly available data that also has not been independently verified. This exhibit is based upon a desktop analysis and has not been surveyed.



8620 Wolff Court  
Westminster, CO 80031  
(303) 928-7128  
www.ascentgeomatics.com

DRAWING DATE:  
03-27-19

DRAWN BY:  
JW

CHECKED BY:  
VQD

### LEGEND:

- = PROPOSED PAD / FACILITY
- = PROPOSED WELL
- ⊗ = WINDMILL

- = ACCESS ROAD
- ◆ = EXISTING WELL
- ▨ = MUSTER POINT / STAGING AREA

- ▨ = FLOODPLAIN
- ▨ = EXISTING FACILITY
- OHU — = OVERHEAD UTILITY

- X — = FENCE
- = STREAM

- = BUILDING UNIT
- = BUILDING

SHEET 1 OF 2





# TACTICAL RESPONSE PLAN

## RESPONSE RESOURCE CONTACT INFORMATION

NOBLE ENERGY, INC.	
Contact	24-Hour Phone
Noble Energy, Inc.	888-634-7928
Noble Greeley OCC	970-304-5000

STATE, FEDERAL, AND MUNICIPAL EMERGENCY RESPONDERS	
Contact	Phone
Southeast Weld Fire Protection District	303-732-4203
Weld County Sheriff	970-356-4015
Weld County OEM	970-304-6540
National Response Center	800-424-8802
Colorado State Highway Patrol	970-506-4999

MEDICAL FACILITIES	
Contact	Phone
Northern Colorado Medical Center (Burn Center)	970-810-4121
Medical Center of the Rockies	970-624-2500
Platte Valley Medical Center	303-498-1600
UCHealth University of Colorado Hospital	720-848-0000

RESPONSE CONTRACTORS	
Contact	Phone
Custom Environmental Services	303-423-9949
Clean Harbors (Denver Office)	800-645-8265
Wild Well Control, Inc.	281-784-4700

### SAFETY – PROTECT LIFE

- ❖ Evaluate and account for all personnel
- ❖ Isolate all potential ignition sources
- ❖ Initiate emergency services immediately, as needed (911, Fire, LEPC)
- ❖ Identify hazard(s) of emitted material (obtain SDS)
- ❖ Establish site control (safe perimeter and evacuation routes)
- ❖ Monitor air in impacted areas
- ❖ Develop Site Safety Plan (ICS 208) and Medical Plan
- ❖ Continually assess site hazards and risks

### RESPONSE – INCIDENT STABILIZATION

- ❖ Conduct notifications to external agencies and internal personnel
- ❖ Identify and implement staging areas to support response operations
- ❖ Activate response company for equipment and manpower as needed
- ❖ Activate response tactics to contain and recover product/material
- ❖ Establish command post and field communications
- ❖ Establish flight traffic restriction if required
- ❖ Provide personnel and equipment support as required
- ❖ Implement waste handling and disposal procedures as required
- ❖ Initiate decontamination and demobilization procedures when appropriate

### ENVIRONMENTAL – PROTECT THE ENVIRONMENT

- ❖ Identify, prioritize, and protect environmentally sensitive areas
- ❖ Establish wildlife rescue rehabilitation operations if required
- ❖ Verify release if waters are impacted
- ❖ Conduct visual assessments (spill tracking and surveillance)

After assessing the incident level and contacting the appropriate parties, the following steps will need to be taken for the tactical response:

1. Implement National Incident Management System (NIMS) Incident Command System (ICS)
  2. Assess hazards to site, workers, and public
  3. Safety Officer should complete form ICS 208 – Safety Message/Plan
  4. Conduct Job Safety Briefing
  5. Assess property and environmental impacts
  6. Develop ICS 201 Incident Briefing and ICS 202 – Incident Objectives
  7. Implement response actions:
    - a) Confine spills to tanks/vessels
    - b) Locate leading edge of spilled material
    - c) Contain spills on ground and any surrounding drainage ways
    - d) Recover spilled materials
    - e) Dispose of recovered materials properly
  8. Document site conditions and activities
  9. Document impacts to natural, economic, and cultural resources
  10. Document site restoration/remediation activities
- See the Noble Emergency Response Plan for the full list of NIMS ICS Forms.





## Y05-15 Pad

Keenesburg, Weld County, Colorado  
T2N R64W

## 10720 CR 49

Lat: 40.16124 °N (40.16124)  
Long: 104.57407 °W (-104.57407)

**All Emergencies will be reported through  
911**

### NOTIFICATIONS

1. National Response Center:  
800-424-8802
2. Noble Emergency Response:  
888-634-7928  
970-304-5000
3. Colorado Department of Natural Resources:  
303-866-3311
4. EPA Region VIII  
303-312-6312
5. Weld County OEM  
970-304-6540

### RESPONSE OBJECTIVES

Minimize the impact to the environment and local community. Contain and recover released product to the extent possible.

### CRITICAL RECEPTORS

1. Intermittent Stream
2. Nearby Power Lines
3. Nearby Oil and Gas Facilities
4. Nearby Floodplain
5. Nearby Windmill
6. Nearby Pond

Note: This Tactical Response Card is a reference tool and is intended to provide guidance during an actual event or exercise. Placement of resources may need to be adjusted according to environmental variables. It is the responsibility of emergency response personnel to be trained in response and to be able to make adjustments to the card as needed.

DATA SOURCES:  
-AERIAL IMAGERY: NAIP 2017  
-HYDROLOGY: NHD

PUBLICLY AVAILABLE DATA  
SOURCES HAVE NOT BEEN  
INDEPENDENTLY VERIFIED  
BY ASCENT.

This plot does not represent a monumented land survey and should not be relied upon to determine boundary lines, property ownership or other property interests. Parcel lines, if depicted have not been field verified and may be based upon publicly available data that also has not been independently verified. This exhibit is based upon a desktop analysis and has not been surveyed.



8620 Wolff Court  
Westminster, CO 80031  
(303) 928-7128  
www.ascentgeomatics.com

DRAWING DATE:  
03-27-19

DRAWN BY:  
DNS

CHECKED BY:  
VQD

### LEGEND:

- PROPOSED PAD / FACILITY
- PROPOSED WELL
- WINDMILL

- ACCESS ROAD
- EXISTING WELL
- MUSTER POINT / STAGING AREA

- BUILDING
- POND
- EXISTING FACILITY
- FLOODPLAIN

- BUILDING UNIT
- FENCE
- STREAM
- OVERHEAD UTILITY





# TACTICAL RESPONSE PLAN

## RESPONSE RESOURCE CONTACT INFORMATION

After assessing the incident level and contacting the appropriate parties, the following steps will need to be taken for the tactical response:

1. Implement National Incident Management System (NIMS) Incident Command System (ICS)
  2. Assess hazards to site, workers, and public
  3. Safety Officer should complete form ICS 208 – Safety Message/Plan
  4. Conduct Job Safety Briefing
  5. Assess property and environmental impacts
  6. Develop ICS 201 Incident Briefing and ICS 202 – Incident Objectives
  7. Implement response actions:
    - a) Confine spills to tanks/vessels
    - b) Locate leading edge of spilled material
    - c) Contain spills on ground and any surrounding drainage ways
    - d) Recover spilled materials
    - e) Dispose of recovered materials properly
  8. Document site conditions and activities
  9. Document impacts to natural, economic, and cultural resources
  10. Document site restoration/remediation activities
- See the Noble Emergency Response Plan for the full list of NIMS ICS Forms.

NOBLE ENERGY, INC.	
Contact	24-Hour Phone
Noble Energy, Inc.	888-634-7928
Noble Greeley OCC	970-304-5000

STATE, FEDERAL, AND MUNICIPAL EMERGENCY RESPONDERS	
Contact	Phone
Southeast Weld Fire Protection District	303-732-4203
Weld County Sheriff	970-356-4015
Weld County OEM	970-304-6540
National Response Center	800-424-8802
Colorado State Highway Patrol	970-506-4999

MEDICAL FACILITIES	
Contact	Phone
Northern Colorado Medical Center (Burn Center)	970-810-4121
Medical Center of the Rockies	970-624-2500
Platte Valley Medical Center	303-498-1600
UCHealth University of Colorado Hospital	720-848-0000

RESPONSE CONTRACTORS	
Contact	Phone
Custom Environmental Services	303-423-9949
Clean Harbors (Denver Office)	800-645-8265
Wild Well Control, Inc.	281-784-4700

### SAFETY – PROTECT LIFE

- ❖ Evaluate and account for all personnel
- ❖ Isolate all potential ignition sources
- ❖ Initiate emergency services immediately, as needed (911, Fire, LEPC)
- ❖ Identify hazard(s) of emitted material (obtain SDS)
- ❖ Establish site control (safe perimeter and evacuation routes)
- ❖ Monitor air in impacted areas
- ❖ Develop Site Safety Plan (ICS 208) and Medical Plan
- ❖ Continually assess site hazards and risks

### RESPONSE – INCIDENT STABILIZATION

- ❖ Conduct notifications to external agencies and internal personnel
- ❖ Identify and implement staging areas to support response operations
- ❖ Activate response company for equipment and manpower as needed
- ❖ Activate response tactics to contain and recover product/material
- ❖ Establish command post and field communications
- ❖ Establish flight traffic restriction if required
- ❖ Provide personnel and equipment support as required
- ❖ Implement waste handling and disposal procedures as required
- ❖ Initiate decontamination and demobilization procedures when appropriate

### ENVIRONMENTAL – PROTECT THE ENVIRONMENT

- ❖ Identify, prioritize, and protect environmentally sensitive areas
- ❖ Establish wildlife rescue rehabilitation operations if required
- ❖ Verify release if waters are impacted
- ❖ Conduct visual assessments (spill tracking and surveillance)





## Y07-02 Pad

Keenesburg, Weld County, Colorado  
T2N R64W

Lat: 40.15805 °N (40.15805)  
Long: 104.59288 °W (-104.59288)

**All Emergencies will be reported  
through 911**

### NOTIFICATIONS

1. National Response Center:  
800-424-8802
2. Noble Emergency Response:  
888-634-7928  
970-304-5000
3. Colorado Department of Natural Resources:  
303-866-3311
4. EPA Region VIII  
303-312-6312
5. Weld County OEM  
970-304-6540

### RESPONSE OBJECTIVES

Minimize the impact to the environment and local community. Contain and recover released product to the extent possible.

### CRITICAL RECEPTORS

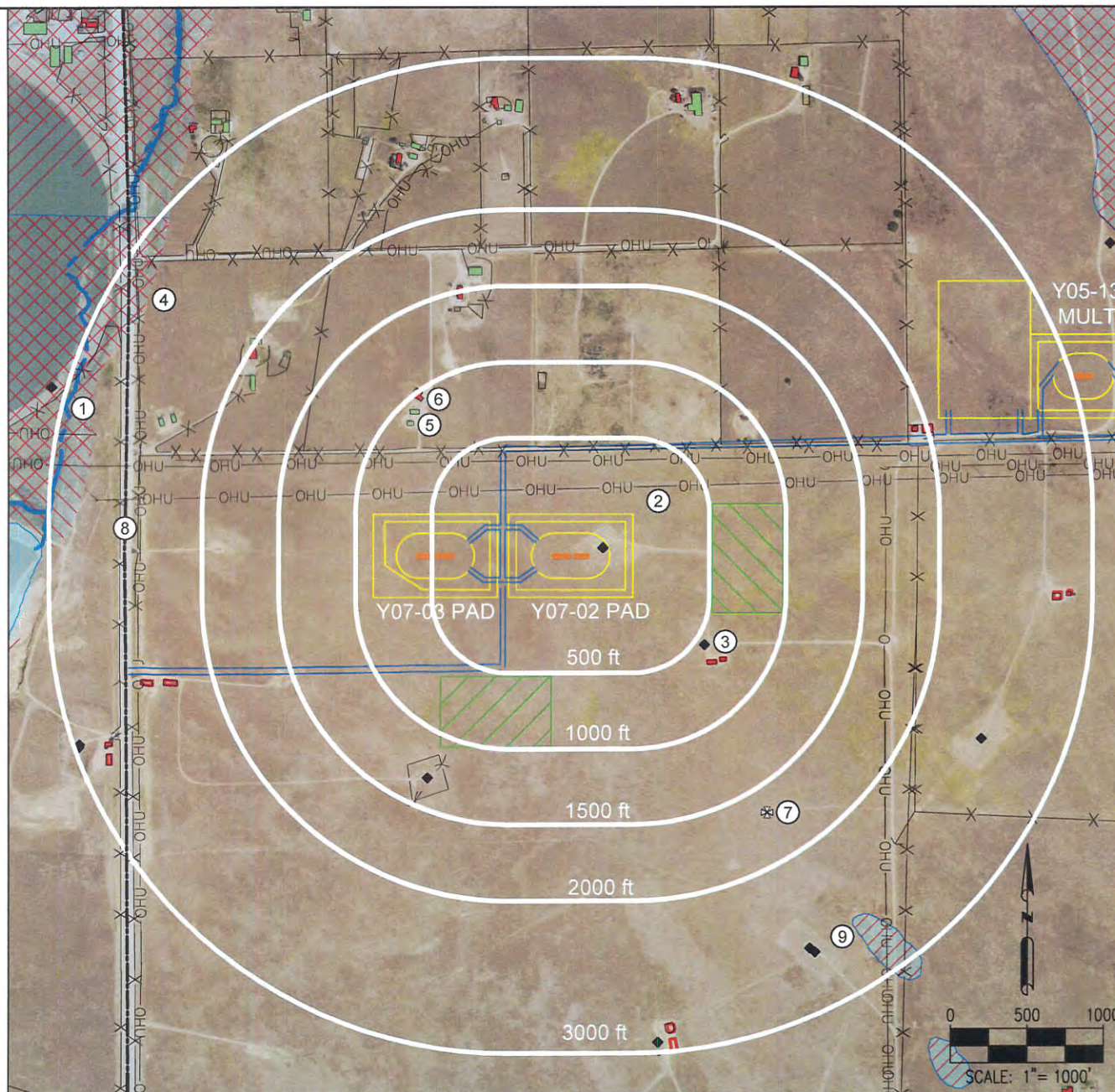
1. Box Elder Creek
2. Nearby Powerlines
3. Nearby Oil and Gas Facilities
4. Nearby Floodplain
5. Nearby Buildings
6. Nearby Building Units
7. Nearby Windmill
8. Weld County Road 49
9. Nearby Low Lying Area

Note: This Tactical Response Card is a reference tool and is intended to provide guidance during an actual event or exercise. Placement of resources may need to be adjusted according to environmental variables. It is the responsibility of emergency response personnel to be trained in response and to be able to make adjustments to the card as needed.

DATA SOURCES:  
-AERIAL IMAGERY: NAIP 2017  
-HYDROLOGY: NHD

PUBLICLY AVAILABLE DATA  
SOURCES HAVE NOT BEEN  
INDEPENDENTLY VERIFIED  
BY ASCENT.

This plot does not represent a monumented land survey and should not be relied upon to determine boundary lines, property ownership or other property interests. Parcel lines, if depicted have not been field verified and may be based upon publicly available data that also has not been independently verified. This exhibit is based upon a desktop analysis and has not been surveyed.



### LEGEND:

- = PROPOSED PAD / FACILITY
- = PROPOSED WELL
- ⊗ = WINDMILL

- = ACCESS ROAD
- ◆ = EXISTING WELL
- = MUSTER POINT / STAGING AREA

- = POND
- = EXISTING FACILITY
- = FLOODPLAIN

- X—X— = FENCE
- = STREAM
- OHU— = OVERHEAD UTILITY

- = PUBLIC ROAD
- = LOW LYING AREA

SHEET 1 OF 2



8620 Wolff Court  
Westminster, CO 80031  
(303) 928-7128  
www.ascentgeomatics.com

DRAWING DATE:  
03-26-19

DRAWN BY:  
DNS

CHECKED BY:  
VQD





# TACTICAL RESPONSE PLAN

## RESPONSE RESOURCE CONTACT INFORMATION

NOBLE ENERGY, INC.	
Contact	24-Hour Phone
Noble Energy, Inc.	888-634-7928
Noble Greeley OCC	970-304-5000

STATE, FEDERAL, AND MUNICIPAL EMERGENCY RESPONDERS	
Contact	Phone
Southeast Weld Fire Protection District	303-732-4203
Weld County Sheriff	970-356-4015
Weld County OEM	970-304-6540
National Response Center	800-424-8802
Colorado State Highway Patrol	970-506-4999

MEDICAL FACILITIES	
Contact	Phone
Northern Colorado Medical Center (Burn Center)	970-810-4121
Medical Center of the Rockies	970-624-2500
Platte Valley Medical Center	303-498-1600
UCHealth University of Colorado Hospital	720-848-0000

RESPONSE CONTRACTORS	
Contact	Phone
Custom Environmental Services	303-423-9949
Clean Harbors (Denver Office)	800-645-8265
Wild Well Control, Inc.	281-784-4700

## SAFETY – PROTECT LIFE

- ❖ Evaluate and account for all personnel
- ❖ Isolate all potential ignition sources
- ❖ Initiate emergency services immediately, as needed (911, Fire, LEPC)
- ❖ Identify hazard(s) of emitted material (obtain SDS)
- ❖ Establish site control (safe perimeter and evacuation routes)
- ❖ Monitor air in impacted areas
- ❖ Develop Site Safety Plan (ICS 208) and Medical Plan
- ❖ Continually assess site hazards and risks

## RESPONSE – INCIDENT STABILIZATION

- ❖ Conduct notifications to external agencies and internal personnel
- ❖ Identify and implement staging areas to support response operations
- ❖ Activate response company for equipment and manpower as needed
- ❖ Activate response tactics to contain and recover product/material
- ❖ Establish command post and field communications
- ❖ Establish flight traffic restriction if required
- ❖ Provide personnel and equipment support as required
- ❖ Implement waste handling and disposal procedures as required
- ❖ Initiate decontamination and demobilization procedures when appropriate

## ENVIRONMENTAL – PROTECT THE ENVIRONMENT

- ❖ Identify, prioritize, and protect environmentally sensitive areas
- ❖ Establish wildlife rescue rehabilitation operations if required
- ❖ Verify release if waters are impacted
- ❖ Conduct visual assessments (spill tracking and surveillance)

After assessing the incident level and contacting the appropriate parties, the following steps will need to be taken for the tactical response:

1. Implement National Incident Management System (NIMS) Incident Command System (ICS)
  2. Assess hazards to site, workers, and public
  3. Safety Officer should complete form ICS 208 – Safety Message/Plan
  4. Conduct Job Safety Briefing
  5. Assess property and environmental impacts
  6. Develop ICS 201 Incident Briefing and ICS 202 – Incident Objectives
  7. Implement response actions:
    - a) Confine spills to tanks/vessels
    - b) Locate leading edge of spilled material
    - c) Contain spills on ground and any surrounding drainage ways
    - d) Recover spilled materials
    - e) Dispose of recovered materials properly
  8. Document site conditions and activities
  9. Document impacts to natural, economic, and cultural resources
  10. Document site restoration/remediation activities
- See the Noble Emergency Response Plan for the full list of NIMS ICS Forms.





## Y07-03 Pad

Keenesburg, Weld County, Colorado  
T2N R64W

Lat: 40.15808 °N (40.15808)  
Long: 104.59603 °W (-104.59603)

**All Emergencies will be reported  
through 911**

### NOTIFICATIONS

1. National Response Center:  
800-424-8802
2. Noble Emergency Response:  
888-634-7928  
970-304-5000
3. Colorado Department of Natural Resources:  
303-866-3311
4. EPA Region VIII  
303-312-6312
5. Weld County OEM  
970-304-6540

### RESPONSE OBJECTIVES

Minimize the impact to the environment and local community. Contain and recover released product to the extent possible.

### CRITICAL RECEPTORS

1. Klug Lake
2. Box Elder Creek
3. Nearby Power Lines
4. Nearby Oil and Gas Facilities
5. Nearby Buildings
6. Nearby Building Units
7. Nearby Windmill
8. Nearby Floodplain
9. Weld County Road 49

Note: This Tactical Response Card is a reference tool and is intended to provide guidance during an actual event or exercise. Placement of resources may need to be adjusted according to environmental variables. It is the responsibility of emergency response personnel to be trained in response and to be able to make adjustments to the card as needed.

DATA SOURCES:  
-AERIAL IMAGERY: NAIP 2017  
-HYDROLOGY: NHD

PUBLICLY AVAILABLE DATA  
SOURCES HAVE NOT BEEN  
INDEPENDENTLY VERIFIED  
BY ASCENT.

This plot does not represent a monumented land survey and should not be relied upon to determine boundary lines, property ownership or other property interests. Parcel lines, if depicted have not been field verified and may be based upon publicly available data that also has not been independently verified. This exhibit is based upon a desktop analysis and has not been surveyed.



8620 Wolff Court  
Westminster, CO 80031  
(303) 928-7128  
www.ascentgeomatics.com

DRAWING DATE:  
03-26-19

DRAWN BY:  
DNS

CHECKED BY:  
VQD

### LEGEND:

- PROPOSED PAD / FACILITY
- PROPOSED WELL
- WINDMILL

- ACCESS ROAD
- EXISTING WELL
- MUSTER POINT / STAGING AREA

- POND
- FLOODPLAIN
- EXISTING FACILITY

- FENCE
- STREAM
- OVERHEAD UTILITY
- PUBLIC ROAD
- LOW LYING AREA

SHEET 1 OF 2





# TACTICAL RESPONSE PLAN

## RESPONSE RESOURCE CONTACT INFORMATION

NOBLE ENERGY, INC.	
Contact	24-Hour Phone
Noble Energy, Inc.	888-634-7928
Noble Greeley OCC	970-304-5000

STATE, FEDERAL, AND MUNICIPAL EMERGENCY RESPONDERS	
Contact	Phone
Southeast Weld Fire Protection District	303-732-4203
Weld County Sheriff	970-356-4015
Weld County OEM	970-304-6540
National Response Center	800-424-8802
Colorado State Highway Patrol	970-506-4999

MEDICAL FACILITIES	
Contact	Phone
Northern Colorado Medical Center (Burn Center)	970-810-4121
Medical Center of the Rockies	970-624-2500
Platte Valley Medical Center	303-498-1600
UCHealth University of Colorado Hospital	720-848-0000

RESPONSE CONTRACTORS	
Contact	Phone
Custom Environmental Services	303-423-9949
Clean Harbors (Denver Office)	800-645-8265
Wild Well Control, Inc.	281-784-4700

## SAFETY – PROTECT LIFE

- ❖ Evaluate and account for all personnel
- ❖ Isolate all potential ignition sources
- ❖ Initiate emergency services immediately, as needed (911, Fire, LEPC)
- ❖ Identify hazard(s) of emitted material (obtain SDS)
- ❖ Establish site control (safe perimeter and evacuation routes)
- ❖ Monitor air in impacted areas
- ❖ Develop Site Safety Plan (ICS 208) and Medical Plan
- ❖ Continually assess site hazards and risks

## RESPONSE – INCIDENT STABILIZATION

- ❖ Conduct notifications to external agencies and internal personnel
- ❖ Identify and implement staging areas to support response operations
- ❖ Activate response company for equipment and manpower as needed
- ❖ Activate response tactics to contain and recover product/material
- ❖ Establish command post and field communications
- ❖ Establish flight traffic restriction if required
- ❖ Provide personnel and equipment support as required
- ❖ Implement waste handling and disposal procedures as required
- ❖ Initiate decontamination and demobilization procedures when appropriate

## ENVIRONMENTAL – PROTECT THE ENVIRONMENT

- ❖ Identify, prioritize, and protect environmentally sensitive areas
- ❖ Establish wildlife rescue rehabilitation operations if required
- ❖ Verify release if waters are impacted
- ❖ Conduct visual assessments (spill tracking and surveillance)

After assessing the incident level and contacting the appropriate parties, the following steps will need to be taken for the tactical response:

1. Implement National Incident Management System (NIMS) Incident Command System (ICS)
  2. Assess hazards to site, workers, and public
  3. Safety Officer should complete form ICS 208 – Safety Message/Plan
  4. Conduct Job Safety Briefing
  5. Assess property and environmental impacts
  6. Develop ICS 201 Incident Briefing and ICS 202 – Incident Objectives
  7. Implement response actions:
    - a) Confine spills to tanks/vessels
    - b) Locate leading edge of spilled material
    - c) Contain spills on ground and any surrounding drainage ways
    - d) Recover spilled materials
    - e) Dispose of recovered materials properly
  8. Document site conditions and activities
  9. Document impacts to natural, economic, and cultural resources
  10. Document site restoration/remediation activities
- See the Noble Emergency Response Plan for the full list of NIMS ICS Forms.



8620 Wolff Court  
Westminster, CO 80031  
(303) 928-7128  
www.ascntgeomatics.com

Note: this Tactical response Card is a reference tool and is intended to provide guidance during an actual event or exercise. Placement of resources may need to be adjusted according to environmental variables. It is the responsibility of emergency response personnel to be trained in response and to be able to make adjustments to the card as needed.