

Interim Reclamation Plan

Sammons Ranch Helium Gas Wells 315310C



August 2021

This Interim Reclamation Plan (Plan) has been prepared by Vecta Oil & Gas, Ltd. (Vecta) for its Sammons Ranch helium gas well development in Las Animas County, Colorado. The Plan addresses the Colorado Oil & Gas Conservation Commission (COGCC) requirement at Rule 304.c.(16) to prepare an Interim Reclamation Plan, the criteria in Rule 1003, and guidance provided by COGCC.

1.0 Site Description

The proposed wildcat helium gas well will be located in rural Las Animas County in CSW Section 10, Township 31 South, Range 53 West, 6th P.M. The location is on fee surface and will produce fee minerals. The location was previously disturbed from historical ranching operations and dirt roads. The Oil and Gas Location will occupy approximately 1.1 acres. The Working Pad Surface (WPS) will be approximately 1 acre. After interim reclamation, the production pad will be reduced to an estimated 0.2 acre. The site elevation is 5,556 feet. The estimated duration for well pad preparation is 1 day; for drilling and completion 7 to 10 days; for interim reclamation 1 day; and for production approximately 10 years. The approximately 1 day needed for interim reclamation and revegetation will occur during the first favorable growing season.

2.0 Soils Description

Soil map units and their boundaries are shown on Form 2A, Soil Unit Map. Soil units on the Oil and Gas Location are described in Table 1:

Table 1. Soil Description

| Soil Type | Drainage Class | Available Water Capacity | Depth to Restrictive Feature |
|--|----------------|--------------------------|------------------------------|
| WC – Plughat-Villegreen Complex 1 to 4 percent slopes | Well drained | 6.0 – 9.6 inches | 30 – 51 inches |
| WeB – Wiley Silt Loam 0 to 3 percent slopes | Well drained | 11.0 inches | 80 inches |

3.0 Oil and Gas Location Pre-Disturbance Vegetation Composition

The predominant plant species are Blue Grama, Buffalo Grass, Western Wheatgrass, Rabbitbrush, Sand Dropseed, and Red Threeawn. There is approximately 80 percent vegetative cover. The vegetation and percent cover were provided by an on-site evaluation conducted on behalf of Vecta by the District Conservationist and Resource Team Lead, NRCS-Walsenburg and Trinidad Field Office, on July 1, 2021.

4.0 Identification of Reference Area and Vegetation Composition

The Reference Area is located at 37.355640, -103.350590. The Reference Area was determined based on a location with soil properties, vegetation, and vegetative cover consistent with the Oil and Gas Location.

5.0 Known Weed Infestations

There were no Colorado List A or B weed infestations observed on the Oil and Gas Location during review of the site on July 1, 2021.

6.0 Gathering Lines

There are no utilities planned for the Oil and Gas Location. A buried helium gas flowline will transport helium gas from the wellhead to a skid-mounted helium purification unit located approximately 0.5 mile from the Oil and Gas Location. The flowline will be composed of polyethylene. It will be 4 inches in diameter. The flowline corridor will be

an estimated 6 feet wide and 24 inches deep. After trenching and installation, the flowline corridor will be reclaimed. The disturbed area will be backfilled, revegetated, and monitored for vegetation growth. The flowline corridor is shown on the Form 2A, Related Location and Flowline Map.

7.0 Access Road

An existing dirt road will be used to access the Oil and Gas Location from CO Highway 109. From there, new access will be cleared and bladed sufficient to support the water well sized drill rig and other equipment needed to drill a shallow vertical helium gas well. The access road is shown on the Form 2A, Access Road Map. During operation, the access roads will not be reclaimed. They will remain in place to provide access for location operation and maintenance. After final reclamation, the portion of the access road that pre-dates the Oil and Gas Location will remain for the landowner's continued use. The new access will be reclaimed as part of final reclamation.

8.0 Removal of Drilling, Re-entry, Completion Equipment and All Associated Debris and Waste Materials (1003.a)

After well drilling and completion, the well pad will be downsized to approximately 0.2 acre. The well driller will clear equipment and stored materials in preparation for interim reclamation. Any open holes, cellars, rat holes, or other boreholes will be backfilled per industry standards.

9.0 Management of Waste Material

Waste materials will not be left onsite after well drilling and completion. Waste material, volume, and final disposal is described in the Waste Management Plan.

10.0 Identification of Interim Reclamation Areas no Longer in Use (1003.b)

An approximately 0.2-acre area surrounding the helium gas wellhead will not be reclaimed. This area will support well operation and maintenance during production. There will be no storage tanks or equipment other than the wellhead and buried helium gas flowline on the location during production.

11.0 Compaction Alleviation (1003.c)

To decompact soil layers and promote root growth, areas to be reclaimed will be ripped to an estimated depth of 18 inches, unless restrictive features are encountered at a shallower depth.

12.0 Recontouring

The Oil and Gas Location is relatively flat, as shown on the Form 2A, Layout Drawings. A water well-sized drill rig will be used to drill the shallow vertical helium gas well. As a result, there will be minimal cut, fill, and topsoil disturbance. Disturbance is anticipated to consist of blading and moving discrete areas of soil with a skid steer. Topsoil will be stockpiled on the location and will be restored on the reclaimed area. The reclaimed area will be blended with the surrounding surface to restore the natural grade and hydrology patterns. Wattles will be placed, as needed, along the downgradient perimeter of the Oil and Gas Location to prevent runoff of soils and sediment from disturbed areas.

13.0 Re-establish and Stabilize Drainage Features

During interim reclamation, the Oil and Gas Location will be recontoured to blend with the pre-disturbance surface and restore natural drainage patterns. Reclamation during the first growing season will stabilize the soils to avoid stormwater runoff. While vegetation is establishing, wattles will be placed, as needed, along the downgradient perimeter to prevent erosion runnels and avoid soils or sediment from leaving the Oil and Gas Location.

14.0 Establish Desired Self-Perpetuating Plan Community (1003.e)

The anticipated seed mix was identified as a site-specific seed mix in coordination with the Natural Resource Conservation Service District Conservationist, the Las Animas County Extension Service, and the surface owner. The seed mix is listed in Table 2. The seed weight (pounds/acre) and application rate will be provided by the seed mix provider and implemented on the Oil and Gas Location. The seed mix will be certified weed-free.

Table 2. Anticipated Seed Mix

| Anticipated Species | Mix |
|---------------------|------|
| Western Wheatgrass | 30% |
| Sideoats Grama | 25% |
| Blue Grama | 20% |
| Buffalo Grass | 15% |
| Green Needlegrass | 10% |
| TOTAL | 100% |

15.0 Seedbed Preparation and Seeding (1003.e)

Salvaged topsoil will be replaced and contoured to maximize erosion control and soil stability. Soil amendment may be introduced at this stage to promote moisture retention and soil stabilization. Seedbed preparation will be conducted immediately before seeding to ensure that the seedbed provides the maximum benefit for revegetation success. The reclamation provider will confirm whether drill seeding will be performed to further promote vegetation. Drill seeding is typically conducted on slopes flatter than 3:1. Interim reclamation will be performed during the first favorable growing season after well drilling is complete and within the anticipated 6 months described in Rule 1003.b. Early spring and fall typically are preferred seeding periods to coincide with increased precipitation and conditions favorable to seed germination.

16.0 Fencing

Fencing will surround only the wellhead area because there will be no storage tanks or additional equipment on the Oil and Gas Location during production. Livestock fencing is anticipated.

17.0 Management of Invasive Plants (1003.f)

The site operator will be trained on noxious and invasive weeds to monitor at the location. Weed treatment will be conducted, as needed, to prevent establishment and spread of noxious weeds. The weed treatment will be conducted according to Colorado Department of Agriculture recommendations by weed species.

18.0 Proposed Interim Reclamation Drawing

The interim reclamation area is shown on the Form 2A, Facility Layout Drawing. It shows surface flow direction and best management practices (BMPs) for control of erosion and stormwater runoff.

19.0 Reclamation Monitoring, Inspection, Maintenance, and Reporting

The site operator will be on location approximately three times per week to monitor the helium gas well, location, flowline, and helium purification unit. The vegetative success will be monitored as part of these routine site visits. Invasive weeds, evidence of erosion, and areas requiring reseeding will be identified and addressed through weed treatment, adapting stormwater controls, and application of additional seed and potential amendment or fertilizer.

Vegetative success will be considered at least 80 percent of pre-disturbance reference area cover, consistent with Rule 1003.e.(2). Documentation will include the operator's maintenance records for the location and Change Management Checklist.

20.0 Interim Reclamation Completion Notice, Form 4 [1003.e.(3)]

Vecta will submit a Form 4 Sundry Notice describing the reclamation procedures, any mitigation measures, any changes to the final land use, and the total vegetative cover. A minimum four photos will be taken during the growing season for each cardinal direction to document the success of the interim reclamation. One photo will document the total cover of live perennial vegetation of adjacent or nearby undisturbed land or the reference area.

21.0 Site-specific Interim Reclamation BMPs

Table 3. Best Management Practices

| Best Management Practices |
|--|
| <ul style="list-style-type: none"> • Topsoil - Topsoil will be stockpiled on the location and will be restored on the reclaimed area. Salvaged topsoil will be replaced and contoured to maximize erosion control and soil stability. |
| <ul style="list-style-type: none"> • Erosion control – Erosion controls will be installed and maintained to prevent stormwater runoff and erosion. Erosion controls are shown on Form 2A, Construction Layout Drawing and Facility Layout Drawing. |
| <ul style="list-style-type: none"> • Weed control – The location will be monitored for the presence of invasive weeds. Invasive weeds will be treated to prevent them from establishing. |
| <ul style="list-style-type: none"> • Seed mix – The operator will use the certified weed-free seed mix identified by NRCS and approved by the landowner. |
| <ul style="list-style-type: none"> • Seeding method and Timing – Drill seeding or other method appropriate to promote vegetative success will be conducted during the first favorable growing season after well drilling is complete. |
| <ul style="list-style-type: none"> • Fencing – Fencing will be installed around the wellhead. |
| <ul style="list-style-type: none"> • Recontouring - Disturbed areas will be recontoured to blend with the pre-disturbance surface and restore natural drainage patterns. |
| <ul style="list-style-type: none"> • Monitoring – The location will be monitored for vegetative success. It will be reseeded where needed to establish 80 percent of pre-disturbance cover. |

LAS ANIMAS COUNTY
 CSW SEC. 10
 T31S R53W 6TH P.M.

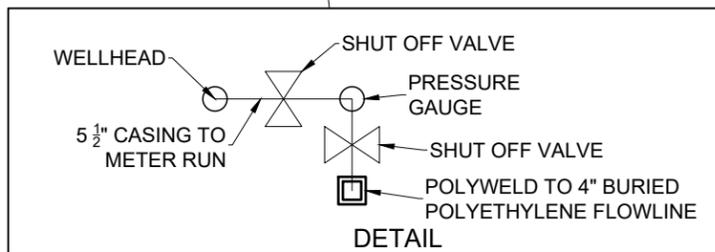
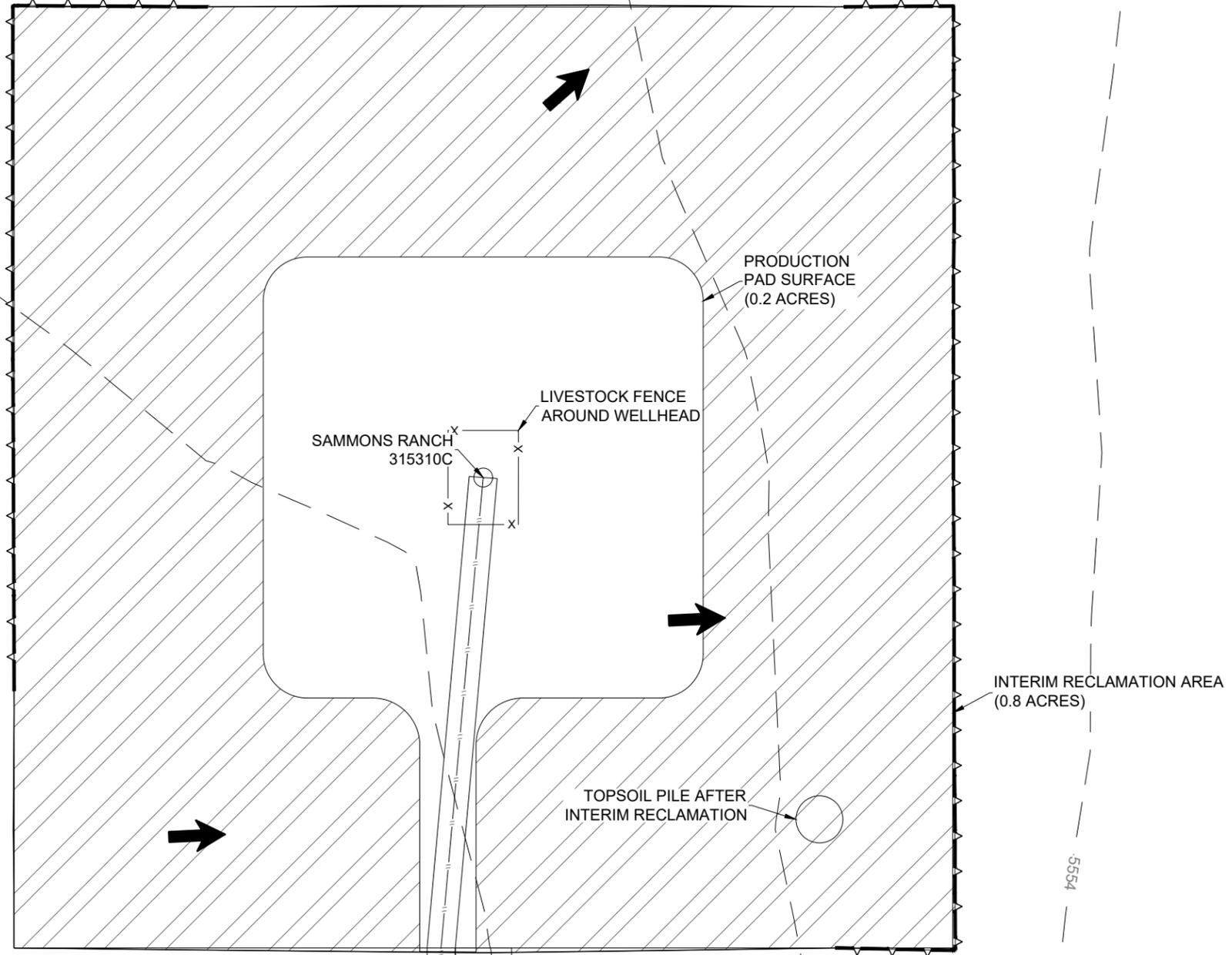


SCALE: 1" = 30'
 0' 15' 30'

- EXISTING 1' CONTOUR
- STORMWATER CONTROLS: FENCE OR WATTLES
- ▨ RECLAMATION AREA
- WELLHEAD
- ➔ PROPOSED DRAINAGE
- ➔ EXISTING DRAINAGE

WELLHEAD ELEVATIONS
 GRADED ELEVATION: 5,555.75'
 UNGRADED ELEVATION: 5,555.75'

ACREAGES
 PRODUCTION PAD AREA: 0.2 ACRES
 INTERIM RECLAMATION AREA: ±0.8 ACRES
 AREA BEFORE RECLAMATION: ±1.0 ACRES



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FACILITY LAYOUT

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