



Utah Gas Op Ltd. d.b.a. Utah Gas Corp
Operator # 10328

Ezra 3
Surface Reclamation Plan

Federal/State Unit COC65155
API #05-077-10157

SESW Section 4 T9S R104W
Lat. 39.300123 Long. -109.005610
Mesa County

Site Description:

The constructed well pad (not drilled) is an approximate 1.3-acre disturbance. The land surface is federal (BLM), with federal minerals. The dominant vegetation community in the lease area can be characterized as Semi-Arid Desert and Juniper Woodland. The average annual temperature for Rangely, CO is 46.45° F, with an average precipitation accumulation of 11.47 inches. Annual precipitation for this site is slightly lower than Rangely average. The existing surrounding land use is rangeland. The well pad sits on a Mountain ridgeline with surrounding slopes. The site elevation is 5,079 feet.

Soils Description:

The USDA National Soils Cooperative website was used to identify boundaries of soils mapping units. 100 % of the site is classified as Moffat-Kompace complex 6-35% slopes. The soils are classified as well drained.

Pre-Disturbance Vegetation Composition:

Ocular assessment for canopy cover on near-by undisturbed land is 5-10%, with mature Juniper and very little grass component present.

Known weed infestations:

There are minor infestations of Cheat grass at pad location.

Management of Waste Material:

Note: this pad location was not drilled, and no waste was generated.

Gathering Lines:

No pipelines or ancillary facilities were constructed for this location; therefore no reclamation activities are required. As such, no ROW grants/relinquishments are applicable to this pad.

Access Road:

Currently, the Ezra 3 location is supported by a two-track road that will not require final reclamation per communication with CRVFO BLM staff, Mike Bullock, on Tuesday, February 20th, 2018. The pre-existing road going through the pad disturbance will be re-established as a two-track within the reclamation area. As the access road is entirely on a BLM lease, no Right-of-Way grants or associated relinquishments are applicable to this pad.

Recontouring:

Re-contouring will start with pulling the fill material back towards the center of the disturbance, to blend with the natural slope of the area. Drainages will be re-established with subtle land forming.

Topsoil stock piles will be spread evenly across the reclaimed pad. We will make every effort to save and distribute any available topsoil found.

Re-establish and stabilize drainage features:

The goal for stormwater management on this location will be to stabilize soils on the reclaim with re-vegetation and to prevent excessive erosion, such as slope or soil instability, subsidence and or slumping. Sediment control wattles installed at down-gradient perimeters will be maintained while site is stabilized with vegetation. The site will be maintained to keep the location free of any trash or construction debris.

Seedbed Preparation and Seeding:

Subsoils on pad working surface will be prepared by ripping to 6-10" in depth. Contours will be shaped to natural repose of the reclaim surface. After final grade and seedbed is established, seeding will take place within 24 hours of completion of the dirt work, weather permitting. The final seedbed will be left in a roughened condition, to help capture intermittent rains and to serve as an additional stormwater BMP. Seeding will be done, on this reclamation area, by hydraulic application, with the following soil amendments: Richlawn 3-6-3 Organic, with Mycorrhizae and Humates. Also, depending on soil tests results, other amendments may be used to increase organics (Biotic Earth), and/or to buffer any pH issues. A bonded fiber-matrix Mulch will be applied hydraulically, over the seed and amendments.

All seed will be certified weed free and pure live seed rated per BLM standards. All seed weight will be calculated in pounds per acre. All seed tags will be submitted with the sundry notice describing completed work within 14 days of completion of the work.

Re-seeding may need to be until reclamation fully meets success criteria. UGC will monitor and ensure successful vegetation establishment and notify the BLM via FAN (Final Abandonment Notice) when success has been achieved and the location is ready for final inspection.

Establish desired self-perpetuating plant community:

The following (high-lighted in Yellow) is the recommended mix for this site, as discussed with CRVFO BLM NRS during on-site meeting with UGC. There is an estimated total of 1.3 acres of this reclaimed area at an average total seed weight of 16.36 lbs. of seed per acre PLS (drill rate). Double rate will be used for broadcast (hydraulic) seeding. Any proposed changes to the below seed mix will be communicated to the BLM prior to seeding.

Table 1-4. Low Elevation Salt-Desert Shrub or Basin Big Sagebrush (8 to 10 inches precipitation)

<i>Common Name</i>	<i>Species Name</i>	<i>Variety</i>	<i>Seeds per Pound</i>	<i>PLS lbs/acre</i>	
Plant <u>All</u> of the Following Grasses (15% of Mix Each, 45% Total)					
Indian Ricegrass	<i>Achnatherum hymenoides</i>	Native Colorado/Utah source or Nezpar, Paloma, Rimrock	141,000	2.8	
Alkali Sacaton	<i>Sporobolus airoides</i>	Native Colorado/Utah source preferred	5,000,000	0.08	
Sand Dropseed	<i>Sporobolus cryptandrus</i>	UP* Dolores or native Colorado/Utah source preferred	1,750,000	0.2	
And <u>Two</u> of the Following Grasses (10% of Mix Each, 20% Total)					
Bottlebrush squirreltail	<i>Elymus elymoides</i>	Fish Creek, Toe Jam Creek, Wapiti	192,000	1.4	
Salina Wildrye	<i>Leymus salinas</i>	UP* Dolores or native Colorado/Utah source preferred	125,000 (estimate)	2.1	
Western Wheatgrass	<i>Pascopyrum smithii</i>	UP* variety or Arriba, Recovery, Rodan, Rosana	110,000	2.4	
And <u>One</u> of the Following Grasses (10% of Mix Each, 10% Total)					
Purple Three-awn	<i>Aristida purpurea</i>	Native Colorado/Utah source preferred	275,000	1.0	
Galleta	<i>Pleuraphis jamesii</i>	Native Colorado/Utah source preferred	159,000	1.6	
And <u>Two</u> of the Following Shrubs (7.5% of Mix Each, 15% Total)					
Fourwing Saltbush	<i>Atriplex canescens</i>	Native Colorado/Utah source preferred	50,000	3.9	
Shadscale Saltbush	<i>Atriplex confertifolia</i>	Native Colorado/Utah source, or Rincon, Snake River, Wytana	60,000	3.3	
Gardner's Saltbush	<i>Atriplex gardneri</i>	Native Colorado/Utah source preferred	111,500	1.8	
And <u>Four</u> of the Following Forbs/Subshrubs (2.5% of Mix Each, 10% Total)**					
<i>Common Name</i>	<i>Scientific Name</i>	<i>PLS lbs/acre</i>	<i>Common Name</i>	<i>Scientific Name</i>	<i>PLS lbs/acre</i>
Broom Snakeweed	<i>Gutierrezia sarothrae</i>	0.04	Scarlet Globemallow	<i>Sphaeralcea coccinea</i>	0.13
Lewis Blue Flax	<i>Linum lewisii</i>	0.4	Western Yarrow	<i>Achillea millefolium</i>	0.02
Scarlet Gilia	<i>Ipomopsis aggregata</i>	0.18	Winterfat	<i>Krascheninnikovia lanata</i>	0.53

*UP = Uncompahgre Project (UP), Kathy See, nativeplant@upartnership.org, 970-240-9498, 970-901-8247

** From UP if available; otherwise native Colorado/Utah source preferred.

Fencing:

To reduce the potential for herbivory impacts to the germinating and establishing desired species, UGC will have the BLM standard wildlife friendly fence installed at perimeter of pad reclaim disturbance. Note, to maintain public access through the reclaim area on the re-established two-track road, a separate fence will be built on the West side of the road. Cowboy wire gates will be installed on each section of fencing to allow for maintenance of the reclaim.

Manage Invasive Plants:

Through the annual site visits, noxious and invasive weeds will be identified, inventoried and treated by licensed contracted herbicide applicators. UGC will monitor, control and reduce the spread of noxious and invasive weed species within our disturbances as determined in the Colorado Noxious Weed Act and rules pertaining to the administration and enforcement of the Colorado Noxious Weed Act, which mandate actions for Colorado Class A and B noxious weeds.

Reclamation Monitoring and Reporting:

State regulations and Utah Gas Corp's Best Management Practices require routine site visits and active management over construction activities, along with annual reclamation reporting requirements. At a minimum, the location will be visited every 14 days during active construction and monthly thereafter until the vegetation has reached 70% cover of pre-disturbance levels. Once final reclamation success has been reached, vegetation establishment is 80% cover of pre-disturbance levels, UGC will ask for approved Final Abandonment Notice (FAN) from COGCC and the BLM. Upon satisfactory site inspection by BLM, verifying success reclamation has been achieved, the wildlife friendly fence will then be removed within 30 days of inspection. Photo documentation of fence removal will be provided to BLM for FAN approval.

Success Criteria for evaluation of the reclamation will be established using a combination of the Custom prescribed seed mix; AIM data (provided by WRFO or GJFO) from similar sites; and the specific site data, as the Desired Plant Community (DPC). The goal of successful reclamation will be to reach 80% of pre-existing vegetative cover, using an approved methodology for monitoring. Pre-existing vegetative cover will be estimated by assessing a pre-determined reference site when areas near the disturbance do not reflect the appropriate plant community. Successful reclamation will also be representative of an early serial growth of the native plant community as described by the approved seed mix, with no one species exceeding 70 percent basal cover. UGC reserves the opportunity to propose the use of an alternative seed mix if the Custom prescribed mix does not perform or does not appear to be reaching the success criteria within 3 growing seasons.

A vegetation monitoring report for this site will be provided to the GJFO, on a three-year rotation, in accordance with the annual reclamation status report. GPS coordinates of monitoring transects will also be provided for replication of monitoring