



Utah Gas Corp Operator # 10539

## **Park Mountain 31-7**

### **Surface Reclamation Plan**

Federal/State Unit COC7867

API #05-103-09756

NWNE 7 3S103W 6

Rio Blanco County

#### **Site Description:**

The existing well pad is an approximate 2.50-acre disturbance. There is a 0.33-mile-long access road that provides access to the Park Mountain 31-7 pad. This project is proposing to reclaim both the well pad and access road. The land surface is private (FEE), with federal minerals. The dominant vegetation community in the lease area can be characterized as Semidesert Shrubland. The average annual temperature for this site is 40-50°F, with an average precipitation accumulation between 8-18 inches. The existing surrounding land use is rangeland. The well pad is situated on the western side of a small hill. There are drainages on both the east and west sides of the hill. The site elevation is 5,969 feet.

#### **Soils Description:**

The USDA National Soils Cooperative website was used to identify boundaries of soils mapping units. The soils in this location can be identified as the Rentsac-Moyerson-Rock outcrop complex. These soils are known for their loamy properties and having an average depth of 0-16 inches before hitting bedrock. This soil is well draining and in a very high runoff class. The water table is typically greater than 80 inches below surface in this region. Due to the nature of soil in this environment extra attention will be given to prevent soil erosion during the totality of the final reclamation process.

#### **Known Weed Infestations:**

There are no known weeds in the proposed reclaim area. If Colorado defined noxious weeds are found before dirt work, they will be treated and removed prior to reclamation.

### **Compliance with COGCC Rule 913 Site Closure Requirements:**

Before reclamation earthwork is initiated, qualified personnel will complete a site investigation for the purpose of identifying any soil or groundwater impacts resulting from current and historic activities on the pad. The site investigation includes sampling and analysis to profile E&P waste, collecting field notes and a photographic record of site conditions. Soil samples (and other media as necessary) will be collected from the footprint of removed production equipment, from any visibly stained soil, and wherever accumulations of contaminants are suspect. This may include sampling beneath tanks and historical pits on the location.

Samples will be analyzed for compliance with Colorado Oil and Gas Conservation Commission (COGCC) Table 915 constituents of concern (COCs) and other agency standards as appropriate in the event non-E&P waste is detected.

If COCs exceed COGCC or other agency cleanup standards, contaminated material will be managed in accordance with the COGCC Form 27 Remediation Plan. All remediation activities will be directed by qualified personnel to ensure any contamination is managed in compliance with agency standards regarding generation, treatment, storage, transportation, and disposal. Verification of This may include field screening techniques, laboratory analysis, and in compliance with COGCC 900 Series Rules. The management and disposal of contaminated material will be made available to the landowner and the COGCC in accordance with regulations, as required.

Site investigations and remediation will be completed in a timely manner in accordance with agency regulations unless affected by factors outside of UGC's control to include weather, seasonal and catastrophic events (e.g. fire, storm events, floods, access restrictions), public and worker safety concerns, and potential environmental impacts (e.g. wildlife timing restrictions, sensitive habitat, landowner preferences). The COGCC regulations and the events described herein may affect the Operator's ability to complete reclamation activities in accordance with BLM regulations and landowner Surface Use Agreements (SUAs).

### **Historical Pit Remediation:**

During site investigation for site closure, the historical pit (Facility ID: 107496) attached to this location was found in the southeast corner of the well pad. An initial sample was taken at 6-foot depth with the latitude and longitude coordinates provided by the COGCC for the historical pit. This sample has exceedances in TPH per Table 915 rules. UGC plans to excavate the historic pit to delineate the extent of impacted soil by sampling the bottom and four walls (North, South, East, and West). Once the walls obtain clearance via soil sampling, the landfarming of the material will commence onsite (see attached diagram).

The impacted soil will be spread to not exceed a depth of 18 inches during landfarming. The material will be turned, and have composite samples gathered from 5 points (corners and center of the landfarm) taken every 4-6 weeks, weather permitting. The landfarm will have a berm of clean soil placed around it. Upon receiving results that fall within Table 915, the material will be placed back into the excavation zone.

**Gathering Lines:**

The gathering line will be cut and capped approximately 450 feet southwest of the location. During equipment removal all other lines on location (flowlines/dumplines etc.) were removed.

**Access Road:**

The (0.33) mile access road from the pad to the unnamed main road will be reclaimed as a part of this project. The access road will be ripped to remove compaction and blended to match the surrounding topography.

**Recontouring:**

Re-contouring will start with pulling material back into the cut hillside on the eastern side of the location to blend with the natural slope of the area. Drainages will be re-established with subtle land-forming, (see attached map). Microdrainages will be established throughout the recontoured hillside to allow for natural processes to reshape the landscape. The surface cover and size distribution of exposed rock will not exceed pre-disturbance site conditions.

The topsoil pile is present on the western side of the pad, after recontouring it will be spread evenly across the reclaimed pad. On older pads, prior to topsoil storage practices, all topsoil was pushed to the bottom of the pad and covered with fill. We will make every effort to save and distribute any available topsoil found.

**Re-establish and Stabilize Drainage Features:**

The goal for stormwater management and site stabilization on this location will be to stabilize soils on the reclaim and to prevent excessive erosion, such as slope or soil instability, subsidence and or slumping. All structural BMPs, such as culverts and ditches, will be removed during final reclamation. The site will be maintained to keep the location free of any trash or construction debris.

**Seedbed Preparation and Seeding:**

Seed beds will be prepared by surface roughening, with utilization of available slash and/or native plant transplant opportunities. Contours will be shaped to natural repose of the reclaim surface. Seeding will take place within 24 hours of completion of the dirt work, weather permitting. The seed mix will be drilled to a minimum depth of 0.25" and a maximum of 0.50". The following soil amendments will be applied on this site: Richlawn 3-6-3 Organic, with Mycorrhizae and Humates. Additional amendments may be used based on soil sampling. Most of the disturbance will be drill seeded and mulched/crimped with Certified Weed-free straw or Native hay. If the recontoured location is too steep for drill seeding, the seed will be broadcasted at two times the rate.

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.

Seeding may need to be repeated until successful. Utah Gas Corp 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.

### **Establish Desired Self-Perpetuating Plant Community:**

The following seed mix was sent to Heather Woodruff, WRFO BLM ecologist for review. UGC will receive approval from BLM representative before applying the seed mix to the location. There is an estimated total of 3 acres of this reclaimed area, and the location will be drill seeded at an average of 17.25 lbs. of seed per acre PLV (drill rate). Any proposed changes to the below seed mix will be communicated to the landowner and respective BLM representative prior to seeding.

Cultivar	Common Name	Scientific Name	Application Rate (lbs PLS/acre)
	Shadscale	<i>Atriplex confertifolia</i>	2.0
	Winterfat	<i>Krascheninnikovia lanata</i>	2.0
	Alkali sacaton	<i>Sporobolus airoides</i>	0.25
Critana	Thickspike Wheatgrass	<i>Elymus lanceolatus</i> ssp. <i>lanceolatus</i>	3.5
Toe Jam Creek	Bottlebrush Squirreltail	<i>Elymus elymoides</i>	4
Rimrock	Indian Ricegrass	<i>Achnatherum hymenoides</i>	5
	Scarlet Globemallow	<i>Sphaeralcea coccinea</i>	0.5

Standard Seed Mixes (60 seeds per square foot application rate)

### **Fencing:**

Utah Gas Corp will install the BLM standard wildlife friendly fence installed at perimeter of pad reclaim disturbance, to reduce the potential for herbivory impacts to the germination and establishment of desired species. The fence on the pad will have a wire gate installed for maintenance access. Upon conditional approval of FAN, the fence will be removed. There will be a reclamation sign placed at the entrance to the access road to deter interference with seeded species on the reclaimed roadway.

### **Manage Invasive Plants:**

Through the annual site visits, noxious and invasive weeds will be identified, inventoried, and treated by licensed contracted herbicide applicators. Utah Gas Corp will monitor, control, and reduce the spread of noxious and invasive weed species within the disturbances as determined in the Colorado Noxious Weed Act and rules pertaining to the administration and enforcement of the Colorado Noxious Weed Act.

### **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, Utah Gas Corp will request a final inspection and approved Final Abandonment Notice (FAN) from the BLM.

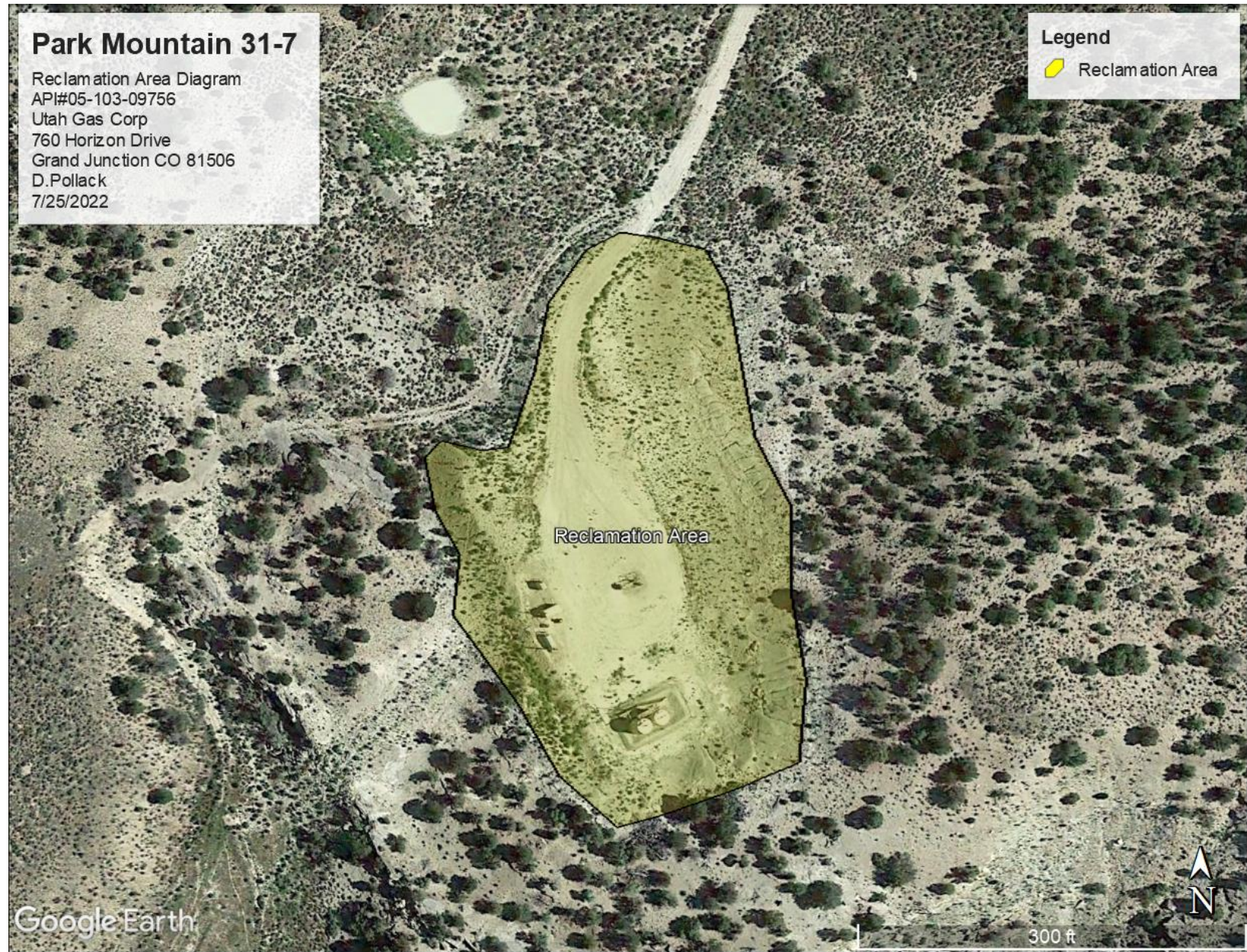
Success Criteria for evaluation of the reclamation will be established using a combination of the Custom prescribed seed mix; AIM data (provided by WRFO) from similar sites; and the specific site data, as the Desired Plant Community (DPC). The goal of successful reclamation will be to reach 80% of pre-existing 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. Utah Gas Corp 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 WRVFO, 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 monitor for final inspection.



**Site Diagrams:**









## Park Mountain 31-7

Pipeline and Access Road Diagram  
API#05-103-09756  
Utah Gas Corp  
760 Horizon Drive  
Grand Junction CO 81506  
D. Pollack  
7/25/2022

### Legend

-  Access Road
-  Cut and Capped Pipeline
-  Pipeline
-  Reclamation Area

Google Earth

1000 ft







## Park Mountain 31-7

Contour Map  
API#05-103-09756  
Utah Gas Corp  
760 Horizon Drive  
Grand Junction CO 81506  
D. Pollack  
7/25/2022

### Legend

-  New Contours
-  Reclamation Area

Google Earth

400 ft





LABORATORY DATA SUMMARY													
Sample ID	PM 31-7 BGN	PM 31-7 BGE	PM 31-7 BGS	PM 31-7 Wellhead	PM 31-7 Meter	PM 31-7 Sep	PM 31-7 Dehy	PM 31-7 Tank	PM 31-7 Pit	COGCC TABLE 915-1 CONCENTRATION LEVELS	Residential Soil	Protection of	UNITS
Sample Depth	9"	9"	6"	4"	9"	9"	9"	9"	6"				
Longitude	-108.995421	-108.994668	-108.995774	-108.995501	-108.995736	-108.995718	-108.995727	-108.995436	-108.995294				
Latitude	39.807131	39.805905	39.805318	39.806053	39.806038	39.805396	39.805936	39.80576	39.805824				
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab				
Sample Description	Background North	Background East	Background South	Wellhead	Surface Meter	Surface Separator	Surface Dehydrator	Surface tank	Historical Pit				
Sample Date	4/19/2022	4/20/2022	4/21/2022	4/22/2022	4/23/2022	4/24/2022	4/25/2022	4/26/2022	4/27/2022				
Analytical Parameters													
TPH													
TPH Gasoline Range Organics	NA	NA	NT	0.0888	0.0773	0.124	0.108	0.322	1600		500		mg/kg
TPH Diesel Range Organics [C10-C28]	NA	NA	NT	16.4	6.47	U	15.8	107	4630				
TPH Oil Range Organics [C28-C36]	NA	NA	NT	35.8	18.6	0.675	40.6	85.5	1990				
TOTAL TPH	NA	NA	NT	52.2888	25.1473	0.799	56.508	192.822	8220				
BTEX													
Benzene	NA	NA	NT	U	U	U	U	U	U		1.2	0.0026	mg/kg
Toluene	NA	NA	NT	U	U	U	U	U	U		490	0.69	mg/kg
Ethylbenzene	NA	NA	NT	U	U	U	U	U	U		5.8	0.78	mg/kg
Total Xylenes	NA	NA	NT	U	0.00115	U	0.00383	U	56.70000		58	9.9	mg/kg
TMB													
1,2,4-Trimethylbenzene	NA	NA	NT	U	U	U	U	U	32.5		30	0.0081	mg/kg
1,3,5-Trimethylbenzene	NA	NA	NT	U	U	U	U	U	29.7		27	0.0087	mg/kg
Metals													
Arsenic	13.1	11.0	13.1	8.06	229	7.24	6.31	10.1	9.92		0.68	0.29	mg/kg
Barium	NA	NA	NT	225	322	163	135	632	129		15,000	82	mg/kg
Cadmium	NA	NA	NT	0.647	0.634	0.734	0.695	0.389	0.588		71	0.38	mg/kg
Chromium (Hexavalent)	NA	NA	NT	< 0.255	< 0.255	< 0.255	0.303	0.337	0.292		0.3	0.00067	mg/kg
Copper	NA	NA	NT	37.1	25	34	32.2	26.9	28.1		3,100	46	mg/kg
Lead	NA	NA	NT	17.4	56.9	14.8	14.5	14.7	13.7		400	14	mg/kg
Nickel	NA	NA	NT	21	12.9	22.9	19.9	17.4	18.2		1,500	26	mg/kg
Selenium	NA	NA	NT	2.42	2.58	1.22	1.94	1.41	1.71		390	0.26	mg/kg
Silver	NA	NA	NT	< 0.127	2.34	< 0.127	< 0.127	< 0.127	< 0.127		390	0.8	mg/kg
Zinc	NA	NA	NT	80.5	42	73.5	69.5	65.8	62.8		23,000	370	mg/kg
SAR Metals Analysis													
Sodium Adsorption Ratio	0.147	0.444	0.411	12.4	1.45	1.05	0.322	0.935	8.16			<6	ratio
Polynuclear Aromatic Hydrocarbons													
Acenaphthene	NA	NA	NT	< 0.00209	< 0.00209	< 0.00209	< 0.00209	0.00933	0.101		360	0.55	mg/kg
Anthracene	NA	NA	NT	< 0.00230	< 0.00230	< 0.00230	< 0.00230	< 0.00230	< 0.00230		1,800	5.8	mg/kg
Benzo(a)anthracene	NA	NA	NT	< 0.00173	< 0.00173	< 0.00173	< 0.00173	< 0.00173	< 0.00173		1.1	0.011	mg/kg
Benzo(a)pyrene	NA	NA	NT	< 0.00179	< 0.00179	< 0.00179	< 0.00179	< 0.00179	< 0.00179		0.11	0.24	mg/kg
Benzo(b)fluoranthene	NA	NA	NT	< 0.00153	< 0.00153	< 0.00153	< 0.00153	< 0.00153	0.02		1.1	0.3	mg/kg
Benzo(k)fluoranthene	NA	NA	NT	< 0.00215	< 0.00215	< 0.00215	< 0.00215	< 0.00215	0.00883		11	2.9	mg/kg
Chrysene	NA	NA	NT	< 0.00232	< 0.00232	< 0.00232	< 0.00232	0.0024	0.055		110	9	mg/kg
Dibenzo(a,h)anthracene	NA	NA	NT	< 0.00172	< 0.00172	< 0.00172	< 0.00172	< 0.00172	< 0.00172		0.11	0.096	mg/kg
Fluoranthene	NA	NA	NT	< 0.00227	< 0.00227	< 0.00227	< 0.00227	< 0.00227	0.0543		240	8.9	mg/kg
Fluorene	NA	NA	NT	< 0.00205	< 0.00205	< 0.00205	< 0.00205	0.00948	0.807		240	0.54	mg/kg
Indeno(1,2,3-cd)pyrene	NA	NA	NT	< 0.00181	< 0.00181	< 0.00181	< 0.00181	< 0.00181	< 0.00181		1.1	0.98	mg/kg
1-Methylnaphthalene	NA	NA	NT	< 0.00449	< 0.00449	< 0.00449	< 0.00449	0.399	7.13		18	0.006	mg/kg
2-Methylnaphthalene	NA	NA	NT	< 0.00427	< 0.00427	< 0.00427	< 0.00427	0.755	10.9		24	0.019	mg/kg
Naphthalene	NA	NA	NT	< 0.00408	< 0.00408	0.0241	< 0.00408	0.105	3.71		2	0.0038	mg/kg
Pyrene	NA	NA	NT	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	0.0542		180	1.3	mg/kg
General Chemistry													
Boron	NA	NA	NT	0.462	0.344	0.19	0.216	0.315	0.307			2	mg/L
Specific Conductivity	0.158	0.166	0.162	1.060	0.265	0.165	0.185	0.233	0.661			<4	mmhos/cm
pH [T8 Qualifier]	8.21	8.19	8.29	8.94	8.43	8.72	8.36	8.14	8.51			6-8.3	su



## Park Mountain 31-7

Sampling Map  
API#05-103-09756  
Utah Gas Corp  
760 Horizon Drive  
Grand Junction CO 81506  
D.Pollack  
7/25/2022

### Legend

☐ Sampling Point

Google Earth

BCN

Seperator

Meter

Wellhead

Dehy

Pit

BCS

BGE

N



300 ft



## Park Mountain 31-7

Pit Excavation and Landfarm Area  
API# 05-103-09756  
Utah Gas Corp  
760 Horizon Drive  
Grand Junction CO 81506  
D.Pollack  
7/25/2022

### Legend

-  Pit Excavation
-  Proposed Landfarm Area

Google Earth

200 ft



