



Hill 2527

304.c. (16): Interim Reclamation Plan

An interim reclamation plan consistent with the requirements of Rule 1003.

Introduction and Site Description:

The Hill 2527 Pad is located in the NWNW of Sec 30 T8N R60W is a Verdad Resources oil and gas production facility that will have 10 horizontal oil and gas wells.

Surface Land Description: Fee

Maximum Disturbance Acreage: 10.00 Acres

Working Pad Surface Acreage: 5.72 Acres

Post Drilling/Completion Acreage: 3.13 Acres

Site Elevation: 4953'

Proposed Timeframe for Interim Reclamation: Interim reclamation will take place on disturbed areas affected by drilling and subsequent operations no later than 6 months after they are no longer in use.

Soils Description and Protection: The primary soil on this location is NRCS 54, Platner loam, 0 to 3 percent slopes. The drainage class is well drained, water capacity of the most liming layer is 0.06 to 0.20 in/hr and the depth to restrictive feature is more than 80 inches. Seven inches of topsoil will be salvaged from the well pad surface prior to construction. Topsoil will be stockpiled onsite adjacent to the well pad for interim and final reclamation. Stockpiles will be constructed with 5:1 side slope and with a planned height of 10 feet. The topsoil stockpiles will be seeded immediately after placement with a quick-germination grass seed mix and a prairie mix selected by the land owner, so that the topsoil is protected from erosion. Additionally, a continuous berm will be placed around any down slope sides of the topsoil stockpile to prevent runoff and erosion. Placement of topsoil stockpiles will incorporate stormwater/runoff BMPs.

Oil and Gas Location Pre-Disturbance Vegetation Composition: The dominant vegetation is disturbed grassland. No noxious weeds were present at the time of field inspection. The vegetative cover at the time of onsite was approximately 80% (8 acres) vegetative cover and 20% bare ground. 98% of the vegetative cover was disturbed grassland, containing Kochia, Smooth brome, Crested wheatgrass and Common salsify, the remaining 2% vegetative cover was native grassland, Prairie sunflower.

Identification of Reference Area and Vegetation Composition (Non-Crop Land): This location reference area is rangeland. The dominant vegetation is disturbed grassland. No noxious weeds were present at the time of field inspection.

Known Weed Infestations: No invasive weeds noted in field inspection.



Gathering Lines: The pipeline and utility corridors are owned, operated and handled by a 3rd party, but will remain through the life of the wells.

Access Road: The new access road will be constructed and is approximately 0.14 acres of additional disturbance will be added and will remain in use and will not be reclaimed until the wells on the pad and surrounding pads are plugged and the entire pad reclaimed.

Removal of Drilling, Re-entry, Completion Equipment and all Associated Debris and Waste Materials (1003.a.): Debris and non-exploration and production (E&P) waste materials (concrete, sack bentonite and other drilling mud additives, sand, plastic, pipe and cable) will be removed when no longer needed and cellars, rat holes, and other boreholes unnecessary for further lease operations will be backfilled. Removal of all drilling, completion equipment and all associated debris and waste materials will be confirmed at the facility Prestart-up Safety Review.

Management of Waste Material: Drill cuttings will be disposed offsite in adherence to the 900-Series. Drilling pits will not be used. All waste materials will be properly disposed of offsite at permitted commercial waste disposal facilities approved to receive E&P Waste by CDPHE and the Relevant Local Government. No waste materials will be left onsite.

Identification of Interim Reclamation Areas no Longer in Use (1003.b.): Approximately 6.87 acres of the pad will be reclaimed within 6 months after disturbed areas affected by drilling and subsequent operations are no longer in use. Approximately 3.13 acres of the working pad surface will remain. The topsoil stockpile size will be reduced when the pad is interim reclaimed. The area around the well heads, tanks and other equipment will not be reclaimed until the wells are plugged and abandoned. The detention area will be reclaimed, but the stormwater detention controls on the edge of the pad will remain for the life of the well within the interim reclaimed area. The area to be reclaimed is shown on the drawing below.

Compaction alleviation, Recontouring, establishing plant community, seeding and Management of invasive plants.

Upon completion of flowback operations, removal of drilling and completions equipment and removal of debris and waste materials, areas of the site not used for production will be restored as nearly as practicable to their original condition. The unused pad surface will have road base surface excavated and hauled from site. The unused pad surface will then be re-graded and contoured to blend into the adjoining landscape. The segregated topsoil horizons temporarily stockpiled during construction and will be replaced to their original relative positions on the project area. The interim reclamation area will be cross-rippled at 90° to a depth of 18 inches to alleviate soil compaction during construction activities. Cross-ripping should be oriented 45° to topographic contours. Crossripping shall only occur when soil moisture is below 35% of field capacity. The interim reclamation area will have compost added and then be disced adequately in order to establish a proper seedbed. Compost will be mixed into the seedbed at 15 ton/acre.



Disturbed areas will be returned to the landowner for use as Rangeland. Verdad will work with the landowner to ensure the disturbed surface is returned to pre-disturbance condition.

Fencing: The maximum disturbance area will be fenced with 3 or 4 strands with the top strand height maximum height of approximately 42-inches, with the lower smooth strand without barbs at a height of approximately 18-inches. Verdad will use a smooth wire on the lowest wire pursuant to CPW guidance of fencing with wildlife in mind. It will remain onsite during interim reclaim so it will not get grazed during establishment of the plant community.

Re-establish and Stabilize Drainage Features: After the wells are brought on to production, the working pad surface will be reduced to 3.13 acres. Approximately 6.87 acres of the construction disturbance will be reclaimed. The stormwater detention area will be reduced and moved north; road base removed, cross-ripped, regraded as close to original contour as practicable, topsoil replaced, seedbed established, seeded and revegetated. Perimeter drainage features will remain within of the reclaimed area to comply with Weld County regulations and removed during final reclamation.

Reclamation Monitoring, Inspection, Maintenance, and Reporting:

Reclamation Monitoring will be inspected at the following frequencies:

- Once per month until interim reclamation is completely established (next growing season).
- Once per year after interim reclamation completion until facility is decommissioned for final reclamation.
- There are no annual reclamation reports required

Operator will focus to further stabilize soils, preventing erosion and site degradation, and to monitor for and treat invasive species. Locations will remain in the interim reclamation phase until the well is plugged and abandoned, at which time final reclamation will take place.

Interim Reclamation Completion Notice, Form 4 (1003.e.[3]): Verdad will submit a Form 4 Sundry Notice once the revegetation reaches 80% pre-disturbance growth. The form will describe reclamation procedures, associated mitigation measures, changes to final land use, and the total cover of live perennial vegetation to evaluate the success of interim reclamation. See the form below.



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FORM
4
Rev 12/05

[Click here to reset form](#)

State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b).

1. OGCC Operator Number:	4. Contact Name	Complete the Attachment Checklist OP OGCC
2. Name of Operator:	Phone:	
3. Address:	Fax:	
City: State: Zip:		
5. API Number OS-	OGCC Facility ID Number	Survey Plat
6. Well/Facility Name:	7. Well/Facility Number	Directional Survey
8. Location (Qtr/Sec, Twp, Rng, Meridian):		Surface Eqmt Diagram
9. County:	10. Field Name:	Technical Info Page
11. Federal, Indian or State Lease Number:		Other

General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qr is substantive and requires a new permit)	
Change of Surface Footage from Exterior Section Lines:	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Change of Surface Footage to Exterior Section Lines:	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Bottomhole location Qtr/Sec, Twp, Rng, Mer	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Latitude	Distance to nearest property line
Longitude	Distance to nearest bldg, public rd, utility or RR
Ground Elevation	Distance to nearest lease line
	Is location in a High Density Area (rule 603b)? Yes/No
	Surface owner consultation date:
GPS DATA: Date of Measurement <input type="text"/> PDOP Reading <input type="text"/> Instrument Operator's Name <input type="text"/>	
<input type="checkbox"/> CHANGE SPACING UNIT Formation <input type="text"/> Formation Code <input type="text"/> Spacing order number <input type="text"/> Unit Acreage <input type="text"/> Unit configuration <input type="text"/>	
<input type="checkbox"/> CHANGE OPERATOR (prior to drilling): Effective Date: <input type="text"/> Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	
<input type="checkbox"/> CHANGE WELL NAME NUMBER From: <input type="text"/> <input type="text"/> To: <input type="text"/> <input type="text"/> Effective Date: <input type="text"/>	
<input type="checkbox"/> ABANDONED LOCATION: Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No Date Ready for Inspection: <input type="text"/>	
<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS Date well shut in or temporarily abandoned: <input type="text"/> Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No MIT required if shut in longer than two years. Date of last MIT: <input type="text"/>	
<input type="checkbox"/> SPUD DATE: <input type="text"/>	
<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)	
<input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK *submit cbl and cement job summaries Method used <input type="text"/> Cementing tool setting/perf depth <input type="text"/> Cement volume <input type="text"/> Cement top <input type="text"/> Cement bottom <input type="text"/> Date <input type="text"/>	
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004. Final reclamation will commence on approximately <input type="text"/> Final reclamation is completed and site is ready for inspection.	

Technical Engineering/Environmental Notice

<input type="checkbox"/> Notice of Intent Approximate Start Date: <input type="text"/>		<input type="checkbox"/> Report of Work Done Date Work Completed: <input type="text"/>	
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)			
<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal	
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste	
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans	
<input type="checkbox"/> Casing/Cementing Program Change	<input type="checkbox"/> Other: <input type="text"/>	<input type="checkbox"/> for Spills and Releases	

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



Site-Specific Interim Reclamation BMPs:

-The Hill location has shallow topsoil. The top 7 inches will be removed from the pad disturbance area surface and located on the north side of the pad. Any soil removed will be placed in the topsoil pile and replaced during interim and final reclamation.

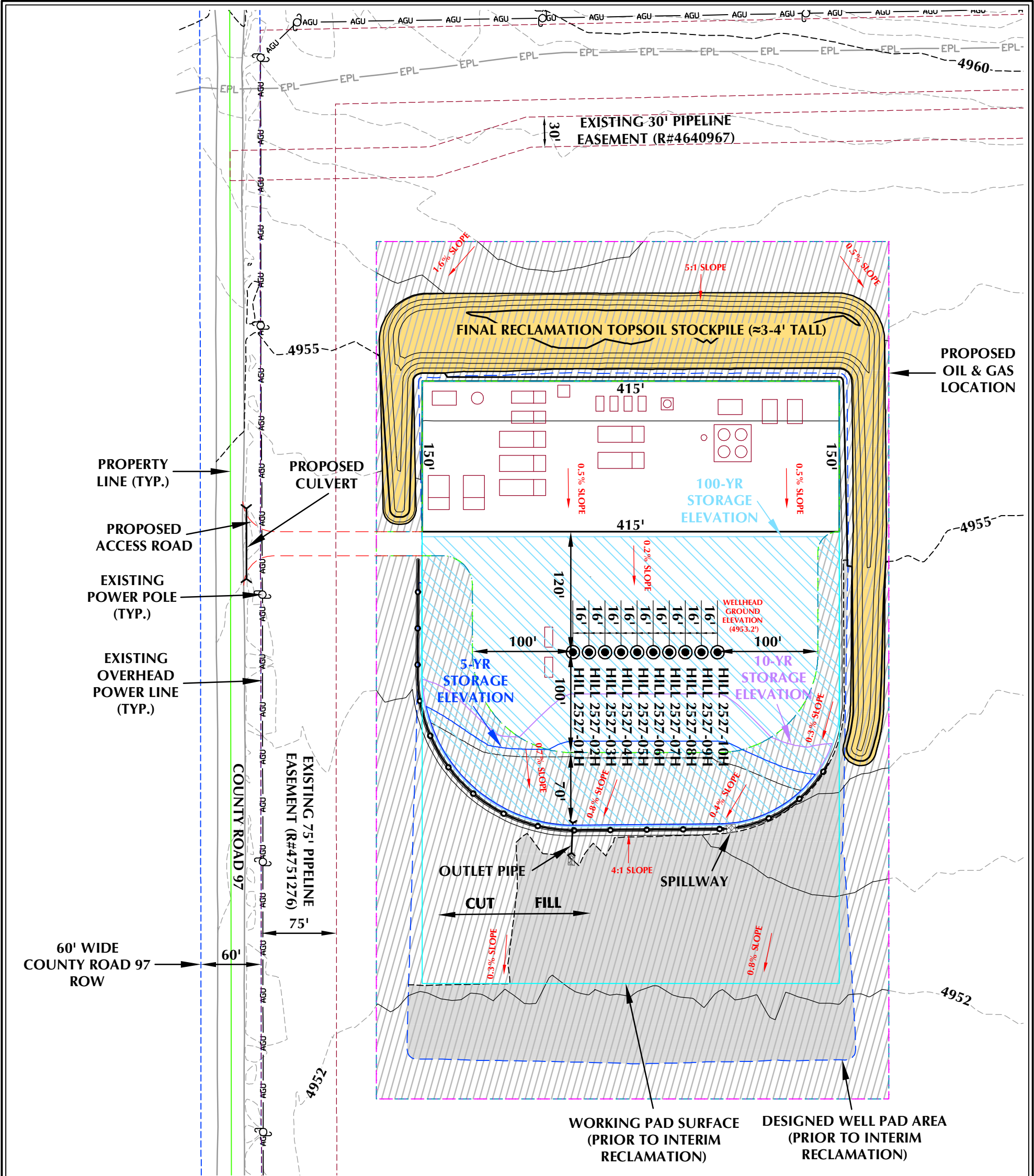
- Erosion will be controlled by covering the pad surface with compacted road base, using perimeter ditch and berms and sediment traps to control run on and runoff, seeding disturbed areas not covered in road base and keeping slopes at 5:1 or less.

-Weeds will be controlled with bare ground spraying, mowing and a local weed control company may be contracted for the removal of any weed infestations that cannot be controlled by mowing.

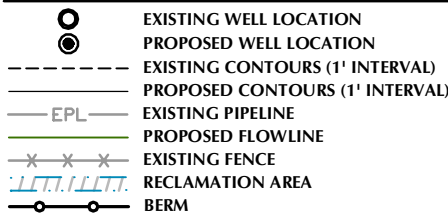

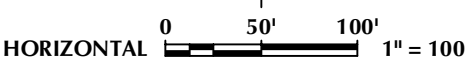


-Interim reclamation will take place on disturbed areas affected by drilling and subsequent operations no later than 6 months after they are no longer in use.

-During interim reclamation the southern border of the disturbance will be moved north to the new edge. The stormwater controls, including the detention area, outlet pipe, spillway and berm will be reconstructed with the new pad footprint.

-The surrounding landscape is rangeland and some oil and gas locations. The downgradient direction is to the southeast. There are not waters of the state, wetlands or riparian corridors within ½ mile of the proposed location.



- NOTES:
- PIPELINE AND UTILITY CORRIDORS ARE PLANNED AND DETERMINED BY THIRD PARTY COMPANIES. SPECIFIC PIPELINE AND UTILITY CORRIDOR LOCATIONS WILL BE DECIDED BY THOSE THIRD PARTY COMPANIES CLOSER TO THE START DATE OF OPERATIONS BASED ON CONTRACT AND RIGHT-OF-WAY NEGOTIATIONS.
 - EXISTING UTILITIES DISPLAYED ON THE GRADING PLAN ARE FOR REFERENCE PURPOSES ONLY. PRIOR TO CONSTRUCTION OR EARTHWORK, CONTRACTOR WILL BE RESPONSIBLE TO CALL FOR LOCATES: (800) 922-1987
 - RECLAIMED AREA WILL BE RE-SEEDING AND RE-VEGETATED DURING INTERIM RECLAMATION.

HILL 2527 INTERIM RECLAMATION SUMMARY			LEGEND	
QUANTITIES AND DESIGN PARAMETERS SHRINKAGE FACTOR = 1.00 SWELL FACTOR = 1.00 PROPOSED OIL & GAS LOCATION = 10.00 ACRES AREA RECLAIMED DURING INTERIM RECLAMATION = 6.87 ACRES TOTAL PAD AREA AFTER INTERIM RECLAMATION = 3.13 ACRES		PAD QUANTITIES TOTAL CUT = 3,893 C.Y. TOTAL FILL = 3,893 C.Y. TOPSOIL @ 7" DEPTH FROM CONSTRUCTION PHASE = 6,359 C.Y. TOPSOIL USED FOR INTERIM REC = 1,342 C.Y. TOPSOIL STORED FOR FINAL REC = 5,017 C.Y.	   HORIZONTAL 1" = 100' 1' CONTOURS	
PAD - HILL 2527		LAND USE: RANGELAND		
INTERIM RECLAMATION SUMMARY HILL 2527-01H, HILL 2527-02H, HILL 2527-03H, HILL 2527-04H, HILL 2527-05H, HILL 2527-06H, HILL 2527-07H, HILL 2527-08H, HILL 2527-09H & HILL 2527-10H LOCATED IN SECTION 30, T8N, R60W, 6TH P.M. WELD COUNTY, COLORADO		 VERDAD RESOURCES 1125 17th Street, Suite 550 Denver, Colorado 80202	 609 CONSULTING, LLC LOVELAND OFFICE 6706 North Franklin Avenue Loveland, Colorado 80538 Phone 970-776-4331 SHERIDAN OFFICE 1095 Saberton Avenue Sheridan, Wyoming 82801 Phone 307-674-0609	SCALE: 1"=100' DATE: 7/14/23 SHEET NO: REVISED: SRS 8/3/23 1 1 OF 1

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