

Civil & Environmental Consultants, Inc.

October 26, 2023

Mr. Scott A. Shoup, P.E.
Shoup Engineering Inc.
329 Summerfield Drive
Baden, Pennsylvania 15005

Dear Mr. Shoup:

Subject: Response to Comments to September 27, 2023 Revision
Land Development and Conditional Use Applications
Tyche Well Pad and Associated Pipeline
West Deer Township, Allegheny County, Pennsylvania
Olympus Energy LLC and Hyperion Midstream LLC
CEC Project 317-141

Civil & Environmental Consultants, Inc. (CEC), on behalf of Olympus Energy LLC (Olympus) and Hyperion Midstream LLC (Hyperion), has prepared the following responses to comments on the Land Development Plan and Conditional Use Applications for the Tyche Well Pad and Associated Pipeline project located in West Deer Township, Allegheny County, Pennsylvania. The comments were provided via email from Shoup Engineering (Shoup) dated October 10, 2023.

The following documents have been revised:

- Attachment A – Revised Land Development Drawings.

To expedite review, Shoup's comments are provided in **bold** type followed by Olympus' and Hyperion's/CEC's response.

1. **Copies of the permanent and temporary driveway permits from Allegheny County for access to Bairdford Road should be submitted to the Township. The applicant has responded that copies will also be provided to the Township after their receipt.**

RESPONSE: This is understood.

2. **Both the Geotechnical Report for the well pad and the Geologic Condition Assessment Report for the pipelines recommend that a geotechnical engineering representative be present during well pad earthwork and pipeline installation. The applicant has committed to engaging a Geotechnical Engineering Firm per the recommendations in this report and assessment.**

RESPONSE: This is understood.

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- 3. On page 24 of the conditional use narrative, a response is provided that sound walls will be installed around the perimeter of the well pad as a sound mitigation measure. The applicant has replied that sound walls will be installed throughout the duration of all drilling and completions activities at the sites. The location of the walls should be shown on the plans.**

RESPONSE: Land Development Drawing C200 has been updated to indicate the location of the proposed sound wall. A Sound Impact Assessment (prepared by others) was transmitted to the Township on October 19, 2023.

Additionally, the proposed stockpile location has been revised to shift the stockpile to the east. As a result, the proposed Limit of Disturbance has been revised. The Land Development Plans have been revised accordingly and are provided as an attachment to this letter. No changes to the proposed access road or well pad layout were required as part of this revision.

We trust the above responses sufficiently address your comments. However, should you have questions regarding these responses, please do not hesitate to contact us at (724) 327 5200.

Sincerely,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.



Jessie M. Durso
Project Consultant



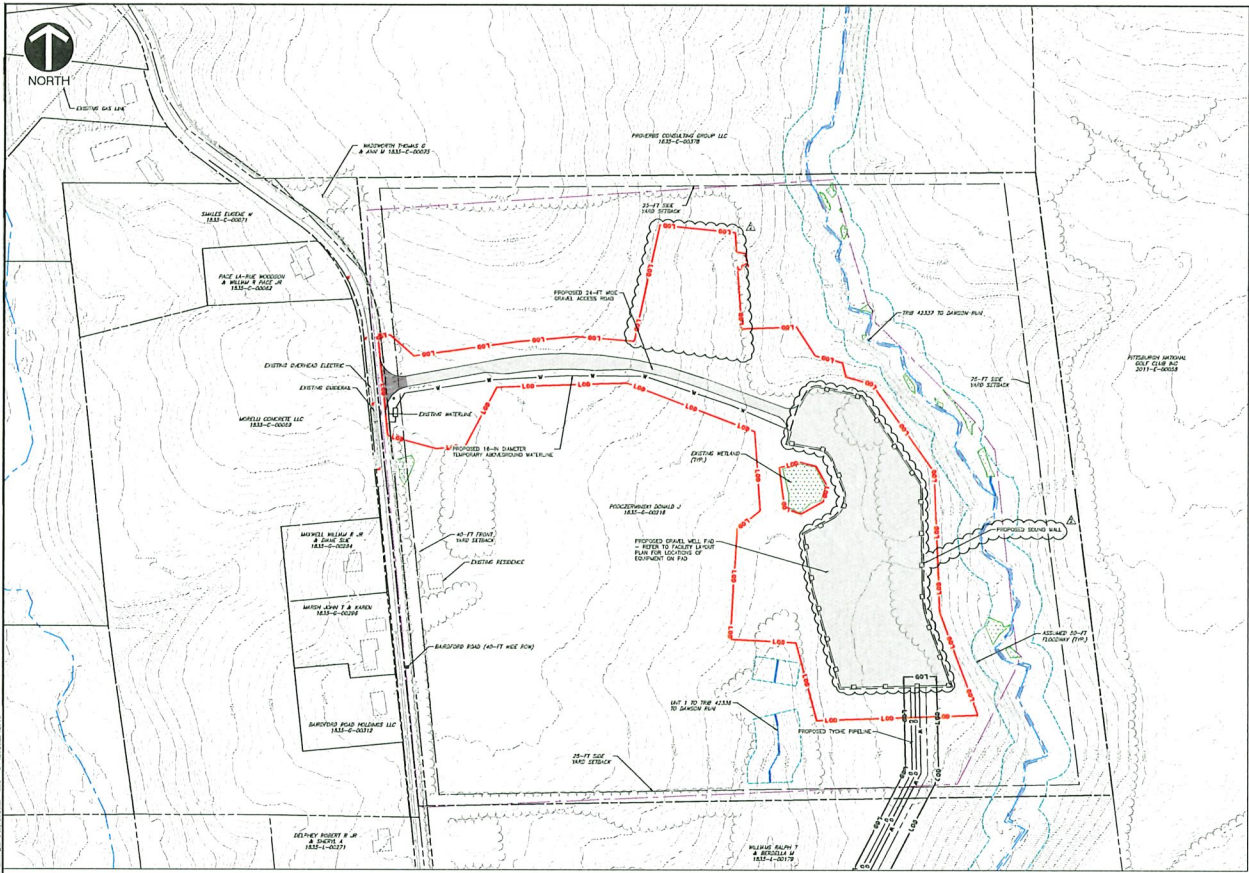
Ryan B. Dailey, P.E.
Senior Project Manager

JMD:RBD/jg
Attachments

cc: Brian Dillemath, Olympus (PDF)

L-317141.026/P

ATTACHMENT A
REVISED LAND DEVELOPMENT DRAWINGS



LEGEND

- EXISTING PROPERTY LINE
- - - - EXISTING RIGHT-OF-WAY
- EXISTING SETBACK LINE
- EXISTING HEDGELINE (SHOWN CENTER)
- EXISTING HEDGELINE (SHOWN EDGE)
- EXISTING HEDGELINE (SHOWN CORNER)
- EXISTING EDGE OF FURROW
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING OATHED WIRE
- EXISTING STREAM
- EXISTING METADON
- EXISTING FURNACE
- EXISTING TREE LINE
- EXISTING RISE AND FELLING EQUIPMENT
- EXISTING RISE AND FELLING EQUIPMENT
- EXISTING SAND WIND

LOT COVERAGE

TOTAL PROPERTY ACRES	21.4000
WELL PAD FOOTPRINT	0.2400 (1.1%)
WELL PAD ACCESS ROAD	0.1200 (0.6%)



REFERENCES

1. ALL INFORMATION IS BASED ON THE RECORD DRAWINGS AND FIELD SURVEY DATA.
2. THE CLIENT HAS REVIEWED AND APPROVED THIS PLAN AND ASSOCIATED DATA.
3. THE CLIENT HAS REVIEWED AND APPROVED THIS PLAN AND ASSOCIATED DATA.
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REVISION RECORD

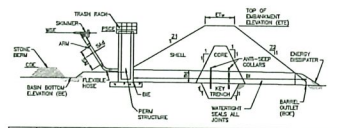
NO.	DATE	DESCRIPTION
1	10/24/2013	ISSUED FOR PERMIT



OLYMPUS ENERGY LLC
TYCHE WELL PAD AND ASSOCIATED PIPELINE
SITE LAYOUT

WEST DEER TOWNSHIP
ALLEGHENY COUNTY, PENNSYLVANIA

DATE: 10/24/2013
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CHECKED BY: [Name]
APPROVED BY: [Name]

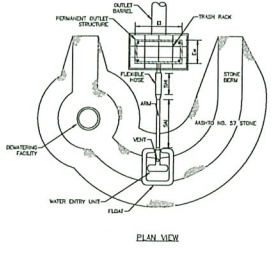


BASIN NO.	EMBANKMENT				SEDIMENT STRUCTURE				BANKS
	TOP (FT)	TOP (FT)	TOP (FT)	TOP (FT)	TOP (FT)	TOP (FT)	TOP (FT)	TOP (FT)	
BASIN 1	3.0	3.0	3.0	3.0	1033.00	1033.00	1033.00	1033.00	1033.75

BASIN NO.	SKIMMER				OUTLET BARREL			
	OFFICE (FT)	OFFICE (FT)	OFFICE (FT)	OFFICE (FT)	OFFICE (FT)	OFFICE (FT)	OFFICE (FT)	OFFICE (FT)
BASIN 1	3.00	3.00	3.00	3.00	1032.75	1032.75	1032.75	1032.75

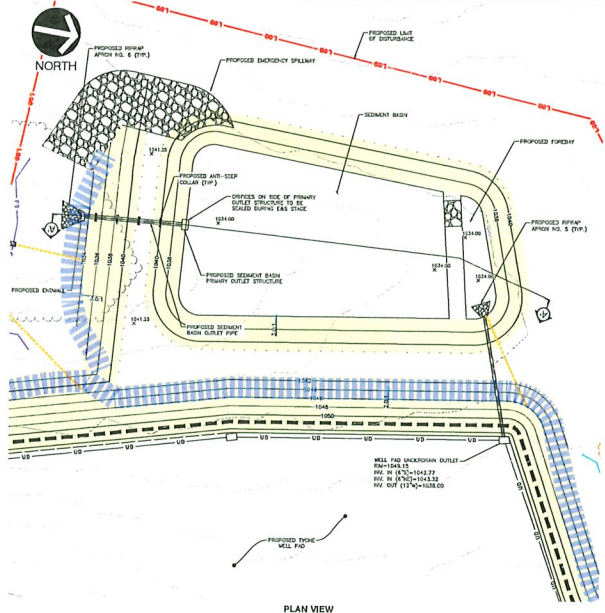
- NOTES:**
- SEDIMENT BASIN, INCLUDING ALL APPURTENANCES, SHALL BE CONSTRUCTED TO THE DETAIL AND DIMENSIONS SHOWN ON THE EAS PLAN DRAWING.
 - AREA UNDER EMBANKMENT SHALL BE CLEANED, GRUBBED AND STRIPPED OF TOPSOIL TO A DEPTH OF TWO FEET PRIOR TO ANY FILLING AND CONSTRUCTION OF EMBANKMENT. ALL EXPOSED SUBSTRATE AND SOILS SHALL BE STABILIZED TO PREVENT EROSION. ALL EXPOSED SUBSTRATE SHALL BE COVERED WITH A MINIMUM OF 18 INCHES OF TOPSOIL. ALL EXPOSED SUBSTRATE SHALL BE COVERED WITH A MINIMUM OF 18 INCHES OF TOPSOIL. ALL EXPOSED SUBSTRATE SHALL BE COVERED WITH A MINIMUM OF 18 INCHES OF TOPSOIL.
 - UPON COMPLETION, STABILIZE THE EMBANKMENT WITH SEED, MULCH, BARRIERS OR OTHER STABILIZATION METHODS ACCORDING TO THE SPECIFICATIONS OF THE EAS PLAN DRAWING. TREES SHALL NOT BE PLANTED ON THE EMBANKMENT.
 - INSTALL ALL SEDIMENT BASINS ON AT LEAST A WEEDY MASS AND AFTER EACH BASIN IS INSTALLED, PROVIDE ACCESS FOR SEDIMENT REMOVAL AND OTHER MAINTENANCE. PLACE A CLEAN OUT TRAP WITH THE CENTER OF EACH BASIN. REMOVE ACCUMULATED SEDIMENT MATERIALS FROM THE BASIN BY TRUCK OR BY OTHER MEANS TO BE DETERMINED BY THE ORIGINAL ENGINEER, SOURCE OF THE EAS PLAN DRAWING.
 - REMOVE BASIN EMBANKMENTS, SPILLWAYS AND OUTLETS FOR EROSION, FLOODS AND RETAINMENT. PERFORM NECESSARY REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE BASIN BY TRUCK OR BY OTHER MEANS TO BE DETERMINED BY THE ORIGINAL ENGINEER, SOURCE OF THE EAS PLAN DRAWING.
 - REMOVE ACCUMULATED SEDIMENT AND STABILIZE DISTURBED AREAS INSIDE THE BASIN BEFORE CONSTRUCTION TO A STORMWATER MANAGEMENT FACILITY.

**DETAIL 20
SEDIMENT BASIN AND SKIMMER
N.T.S.**

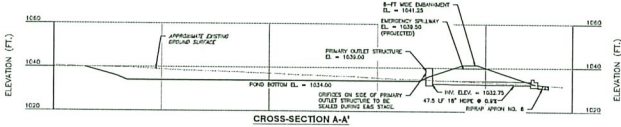


- NOTES:**
- NO OILCATCH SHALL BE REQUIRED FOR THIS INSTALLATION.
 - THIS DETAIL SHALL BE USED IN CONSTRUCTION WITH PAPER SHIMMER DETAIL.

**DETAIL 21
SKIMMER STONE LANDING BERM
N.T.S.**

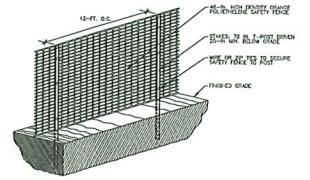


**PLAN VIEW
SCALE IN FEET**



**CROSS-SECTION A-A
SCALE IN FEET (HORIZONTAL)
SCALE IN FEET (VERTICAL)**

**DETAIL 22
SEDIMENT BASIN DETAIL
N.T.S.**



- NOTES:**
- AREAS SHALL BE PROTECTED PER PLAN.
 - SAFETY FENCE SHOULD BE INSTALLED ACCORDING TO THE EAS PLAN.
 - THE FENCING MUST REMAIN IN PLACE DURING CONSTRUCTION.

**DETAIL 23
ORANGE CONSTRUCTION FENCE
N.T.S.**

- SEDIMENT BASIN NOTES:**
- SEDIMENT BASIN, INCLUDING APPURTENANCES, SHALL BE CONSTRUCTED TO THE DETAIL AND DIMENSIONS SHOWN ON THE EAS PLAN DRAWING.
 - ACCESS FOR SEDIMENT REMOVAL AND OTHER REQUIRED MAINTENANCE ACTIVITIES SHALL BE PROVIDED.
 - A CLEAN OUT TRAP SHALL BE PLACED WITH THE CENTER OF EACH BASIN. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED THE CLEAN OUT ELEVATION AND THE BASIN IS NOT BEING USED TO STORE WATER. THE BASIN SHALL BE CLEANED BY TRUCK OR BY OTHER MEANS TO BE DETERMINED BY THE ORIGINAL ENGINEER, SOURCE OF THE EAS PLAN DRAWING.
 - AREA UNDER EMBANKMENT SHALL BE CLEANED, GRUBBED AND STRIPPED OF TOPSOIL TO A DEPTH OF TWO FEET PRIOR TO ANY FILLING AND CONSTRUCTION OF EMBANKMENT. ALL EXPOSED SUBSTRATE AND SOILS SHALL BE STABILIZED TO PREVENT EROSION. ALL EXPOSED SUBSTRATE SHALL BE COVERED WITH A MINIMUM OF 18 INCHES OF TOPSOIL. ALL EXPOSED SUBSTRATE SHALL BE COVERED WITH A MINIMUM OF 18 INCHES OF TOPSOIL.
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 - REMOVE BASIN EMBANKMENTS, SPILLWAYS AND OUTLETS FOR EROSION, FLOODS AND RETAINMENT. PERFORM NECESSARY REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE BASIN BY TRUCK OR BY OTHER MEANS TO BE DETERMINED BY THE ORIGINAL ENGINEER, SOURCE OF THE EAS PLAN DRAWING.
 - REMOVE ACCUMULATED SEDIMENT AND STABILIZE DISTURBED AREAS INSIDE THE BASIN BEFORE CONSTRUCTION TO A STORMWATER MANAGEMENT FACILITY.
 - CHECK EMBANKMENTS, SPILLWAYS AND OUTLETS FOR EROSION, FLOODS AND RETAINMENT. CLOSED OR DAMAGED SPILLWAYS AND/OR EMBANKMENTS SHALL BE REPAIRED TO THE DESIGN SPECIFICATIONS.
 - ELEVATION OF DAMAGED SPILLWAYS SHALL BE REPAIRED IMMEDIATELY. TRASH AND OTHER DEBRIS SHALL BE REMOVED FROM THE BASIN AND BERM.
 - A KEY TRUCK OR OILCATCH TRAP IS REQUIRED FOR ALL PERMANENT BASINS. SEE DETAIL.
 - OUTLET BARRELS FOR PERMANENT AND TEMPORARY BASINS WITH PROVISIONS FOR ACCESS OF 18 INCHES OR MORE SHALL BE SET IN A CONCRETE CHOLE.

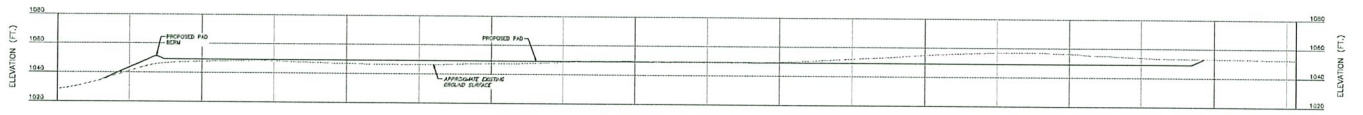
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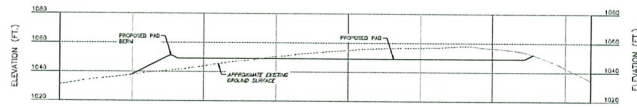
OLYMPUS ENERGY LLC
TYCHEWELL PAD
EROSION AND SEDIMENTATION
CONTROL PLAN DETAILS

WEST DEER TOWNSHIP
ALLEGHENY COUNTY, PENNSYLVANIA

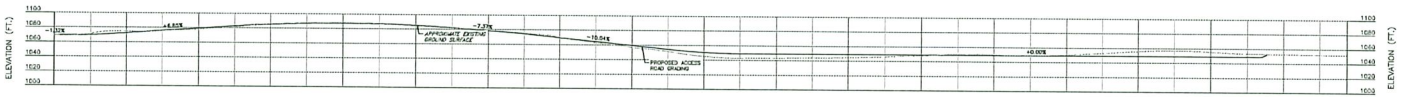
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PAD CROSS-SECTION A-A
 SCALE IN FEET (HORIZONTAL)
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 SCALE IN FEET (VERTICAL)
 0 50 100



PAD CROSS-SECTION B-B
 SCALE IN FEET (HORIZONTAL)
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ACCESS ROAD PROFILE
 SCALE IN FEET (HORIZONTAL)
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NO.	DATE



OLYMPUS ENERGY LLC
 TYCHE WELL PAD
 PAD AND ACCESS ROAD
 CROSS-SECTIONS
 WEST DEER TOWNSHIP
 ALLEGHENY COUNTY, PENNSYLVANIA

DATE: 08/15/18
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OLYMPUS ENERGY LLC