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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, April 1, 2024  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY  
400 WOODCLIFF DR.

CANONSBURG, PA 15317


Re: Permit Modification Approval for HUDSON S-5HM  
47-051-02291-00-00

**Adding an AST to the pad**

EQT PRODUCTION COMPANY

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.



James A. Martin  
Chief

Operator's Well Number: HUDSON S-5HM  
Farm Name: CNX LAND LLC  
U.S. WELL NUMBER: 47-051-02291-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 4/1/2024

Promoting a healthy environment.

04/05/2024

# Hudson Well Site

## Site Design, Construction Plan, & Erosion and Sediment Control Plans

### Tug Hill Operating Marshall County Meade District

Latitude 39.82881036°  
Longitude -80.67262857°  
Grave Creek Watershed

**Pertinent Site Information**  
**Hudson Well Site**  
 Emergency Number: 304-845-1920  
 Meade District, Marshall County, WV  
 Watershed: Grave Creek Watershed  
 Tug Hill Contact Number: 1-817-632-3400

**APPROVED**  
**WVDEP OOG**  
 MODIFICATION  
 4/1/2024



**Property Owner Information - Hudson Well Site**

Owner	TM	Parcel	Well Pad	Access Road	Topsoil Pile	AML Clearing	Total Disturbed
Robert & Melissa White	3.13	-	0.56	0.13	0.01	1.34	4.13
CNX Land LLC	3.1	6.18	1.36	1.96	1.96	17.80	23.36
<b>Site Totals (Ac)</b>	<b>6.18</b>	<b>1.94</b>	<b>2.13</b>	<b>11.69</b>	<b>32.94</b>		

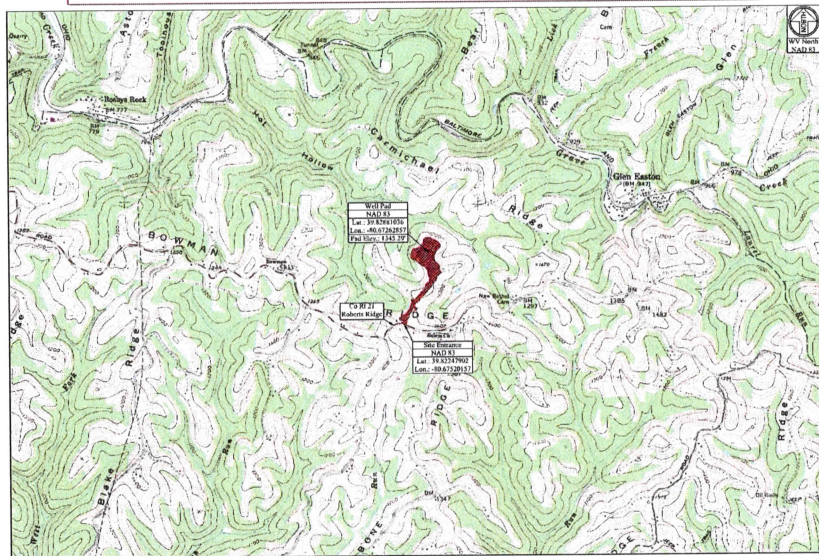
### Exhibit A: As-Built

**Site Entrance**

WV NAD 83 N: 40044.78 WV NAD 83 E: 43589.01 WV NAD 27 N: 40030.94 WV NAD 27 E: 44098.94 Loc. NAD 83: 39.82347607 Loc. NAD 27: 80.67309157 Loc. NAD 27: 39.82340136 Loc. NAD 27: 80.67309158 UTM 17 NAD 83 N: 440889.49 UTM 17 NAD 83 E: 52776.36	<b>Center of Well Pad</b>	<b>Center of Proposed AST</b>
WV NAD 83 N: 40044.78 WV NAD 83 E: 43589.01 WV NAD 27 N: 40030.94 WV NAD 27 E: 44098.94 Loc. NAD 83: 39.82347607 Loc. NAD 27: 80.67309157 Loc. NAD 27: 39.82340136 Loc. NAD 27: 80.67309158 UTM 17 NAD 83 N: 440889.49 UTM 17 NAD 83 E: 52776.36	WV NAD 83 N: 40044.17 WV NAD 83 E: 43589.01 WV NAD 27 N: 40030.94 WV NAD 27 E: 44098.94 Loc. NAD 83: 39.82347607 Loc. NAD 27: 80.67309157 Loc. NAD 27: 39.82340136 Loc. NAD 27: 80.67309158 UTM 17 NAD 83 N: 440889.49 UTM 17 NAD 83 E: 52776.36	WV NAD 83 N: 40044.17 WV NAD 83 E: 43589.01 WV NAD 27 N: 40030.94 WV NAD 27 E: 44098.94 Loc. NAD 83: 39.82347607 Loc. NAD 27: 80.67309157 Loc. NAD 27: 39.82340136 Loc. NAD 27: 80.67309158 UTM 17 NAD 83 N: 440889.49 UTM 17 NAD 83 E: 52776.36

**Well Yards**

Hudson S-01M	Hudson S-02M	Hudson S-03M	Hudson S-04M	Hudson S-05M
WV NAD 83 N: 40044.11 WV NAD 83 E: 43589.24 WV NAD 27 N: 40030.94 WV NAD 27 E: 44098.94 Loc. NAD 83: 39.82347607 Loc. NAD 27: 80.67309157 Loc. NAD 27: 39.82340136 Loc. NAD 27: 80.67309158 UTM 17 NAD 83 N: 440889.49 UTM 17 NAD 83 E: 52776.36	WV NAD 83 N: 40044.11 WV NAD 83 E: 43589.24 WV NAD 27 N: 40030.94 WV NAD 27 E: 44098.94 Loc. NAD 83: 39.82347607 Loc. NAD 27: 80.67309157 Loc. NAD 27: 39.82340136 Loc. NAD 27: 80.67309158 UTM 17 NAD 83 N: 440889.49 UTM 17 NAD 83 E: 52776.36	WV NAD 83 N: 40044.11 WV NAD 83 E: 43589.24 WV NAD 27 N: 40030.94 WV NAD 27 E: 44098.94 Loc. NAD 83: 39.82347607 Loc. NAD 27: 80.67309157 Loc. NAD 27: 39.82340136 Loc. NAD 27: 80.67309158 UTM 17 NAD 83 N: 440889.49 UTM 17 NAD 83 E: 52776.36	WV NAD 83 N: 40044.11 WV NAD 83 E: 43589.24 WV NAD 27 N: 40030.94 WV NAD 27 E: 44098.94 Loc. NAD 83: 39.82347607 Loc. NAD 27: 80.67309157 Loc. NAD 27: 39.82340136 Loc. NAD 27: 80.67309158 UTM 17 NAD 83 N: 440889.49 UTM 17 NAD 83 E: 52776.36	WV NAD 83 N: 40044.11 WV NAD 83 E: 43589.24 WV NAD 27 N: 40030.94 WV NAD 27 E: 44098.94 Loc. NAD 83: 39.82347607 Loc. NAD 27: 80.67309157 Loc. NAD 27: 39.82340136 Loc. NAD 27: 80.67309158 UTM 17 NAD 83 N: 440889.49 UTM 17 NAD 83 E: 52776.36



**WV State Plane Coordinate System**  
 North Zone, NAD 83  
 Elevation Based on NAVD83  
 Established by Survey Grade GPS  
 and OGS File Processing

**Access Road**

Surface Owner	TM	Parcel	Road Length	Type
Robert & Melissa White	3.13	-	1.30	New Access Road Construction
CNX and LLC	3.1	6.18	96.76	New Access Road Construction
CNX Land LLC	3.1	1.94	1.96	New Access Road Construction

**Disturbed Area**

Well Pad Construction	6.18 Ac.
Access Road Construction	2.94 Ac.
Topsoil Pile	0.13 Ac.
Additional Clearing	11.69 Ac.
Total Disturbed Area	21.94 Ac.

**Additional Information**

Total Disturbed Area (Estimated)	17.80 Ac.
Total Area (Est. of Access Road)	12.55 Ac.

**Hudson Well Site Quantities**

Description	Est. (CY)	Est. (CY)	Spec. (CY)	Reserve (CY)	Max. Wast	Length of Slope
Well Pad	48,124	1,011	1,011	1,011	11.3%	261.50'
Well Pad Access Road	1,842	4,098	35	244	11.3%	261.50'
Well Pad Access Road Grading	0.07	79.64	-	79.64	N/A	N/A
Access Road Top	0.01	201.82	-	201.79	20.14%	75.33'
Access Road Bottom	0.01	77.6	-	77.6	19.24%	29.68'
Topsoil	0.00	14,081.34	-	14,081.34	N/A	N/A
Topsoil (Est. of Access Road)	15,794.01	16,548.18	11,097.17	11,097.17		
Total (Est. of Topsoil)	-	-	-	3,493.93	(Erosion Spoil Capacity)	

**Project Contacts**

**Tug Hill Operating**  
 Jonathan White - Regulatory Analyst  
 734-445-2000 Ext. 304-409-7534 Cell  
 Geoff Baker - VP Production  
 817-632-5300 Off.

**Survey and Engineer**  
 Kozart Kelly  
 304-776-0955 Cell  
 John P. See  
 304-442-0220 Off.

**Soil Scientist/Field**  
 Zachary Summerfield  
 304-776-0955 Cell

**Tag Hill Operating, LLC**  
 40 Southpointe Blvd.  
 Southpointe Plaza B1, Suite 200  
 Cambridge, PA 15117

**Environmental:**  
 Wetland Delineation as provided by Arthur Folegny  
 dated November 6, 2018

**Topographic Information:**  
 The topographic information shown herein is based on aerial photography by Blue Mountain Aerial Mapping, Inc., WV

**MISS UTILITY OF WEST VIRGINIA**  
 1-800-245-8484  
 1000 West Virginia State House  
 Charleston, WV 25304-0200  
 www.missutility.com

**811**  
 Know what's below. Call before you dig.

**WVDEP Website files show that there are no active and/or abandoned gas wells within the AOI**

**Approach Routes:**

From the intersection of WV Rt 2 and 12th Street in Mountainville, WV. Travel South on WV Rt 2 for 1.3 mi. Turn Left onto WV Rt 2 AB (Round Bottom Hill Rd). Follow WV Rt 2 AB for 1.5 mi. Turn Right onto Co Rt 21 (Roberts Ridge Rd). Follow Co Rt 21 for 8.9 mi. The site entrance will be on the Left (North) side of the road.

**Site Locations (NAD 27)**

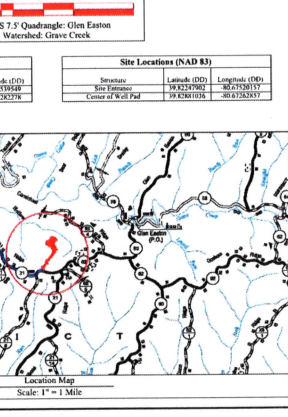
Structure	Latitude (DD)	Longitude (DD)
Site Entrance	39.82347607	-80.67309157
Center of Well Pad	39.82347607	-80.67309157

**Site Locations (NAD 83)**

Structure	Latitude (DD)	Longitude (DD)
Site Entrance	39.82347607	-80.67309157
Center of Well Pad	39.82347607	-80.67309157

**Floodplain Conditions**

Do site construction activities take place in a floodplain?	NO
Permit required from county floodplain coordinator?	NO
HEC-RAS Study completed?	NO
Floodplain shown on topographic map?	NO
HEC-RAS Study completed?	NO
Floodplain shown on topographic map?	NO



**Well Location Restrictions**

All Pad construction complete with the following restrictions:

- \*25' from an existing well or developed spring used for human or domestic animals.
- \*25' from an occupied dwelling or barn greater than 2,000 sq feet for poultry or dairy construction from the center of the pad.
- \*50' from the edge of disturbance or a normally rippling stream.
- \*1,000' of a surface or ground water banks to a public water supply.

(Well Location Restrictions of WV Code 22-6A-12)

**RECEIVED**  
 Office Of Oil and Gas  
 FEB 27 2024

*Shirley Gower*  
 3/19/2024

**Well Location Restrictions**

The well location restrictions that the gas well drilling pad be constructed in accordance with the design drawings. It is recommended that the gas well drilling pad be located in the center of the disturbance and that the gas well drilling pad be located in the center of the disturbance and that the gas well drilling pad be located in the center of the disturbance.

**Sheet**

Sheet	Description
V1	Cover Sheet
NI-N4	Schedule of Quantities
1	Site Notes
2	Pre-Construction Site Conditions
3	Site Soil Map
4	Overall Plan View
5-7	Plan View
8-9	Cross Sections - Well Pad
10-11	Cross Sections - Access Road
Q1-Q2	Geotechnical Exhibit
L1	Landowner Disturbed Area Exhibit
L2	Site Reclamation
M1-M3	Production Exhibit
D1-D2	Erosion and Sediment Control Details
R1	Access Road Details
P1	Pad Details

**Scale: As Shown**  
 Designed By: J.S.  
 File No.  
 Sheet 1 of 11

WV State Plane Coordinate System  
 North Zone, NAD 83  
 Elevation Based on NAVD83  
 Established by Survey Grade GPS  
 and OGS File Processing

Approved  
 WVDEP OOG  
 Modification  
 4/1/2024

TUG HILL OPERATING

THIS DOCUMENT PREPARED FOR TUG HILL OPERATING

K&S Surveying & Mapping, Inc.

Hudson Well Site  
 Meade District  
 Marshall County, WV

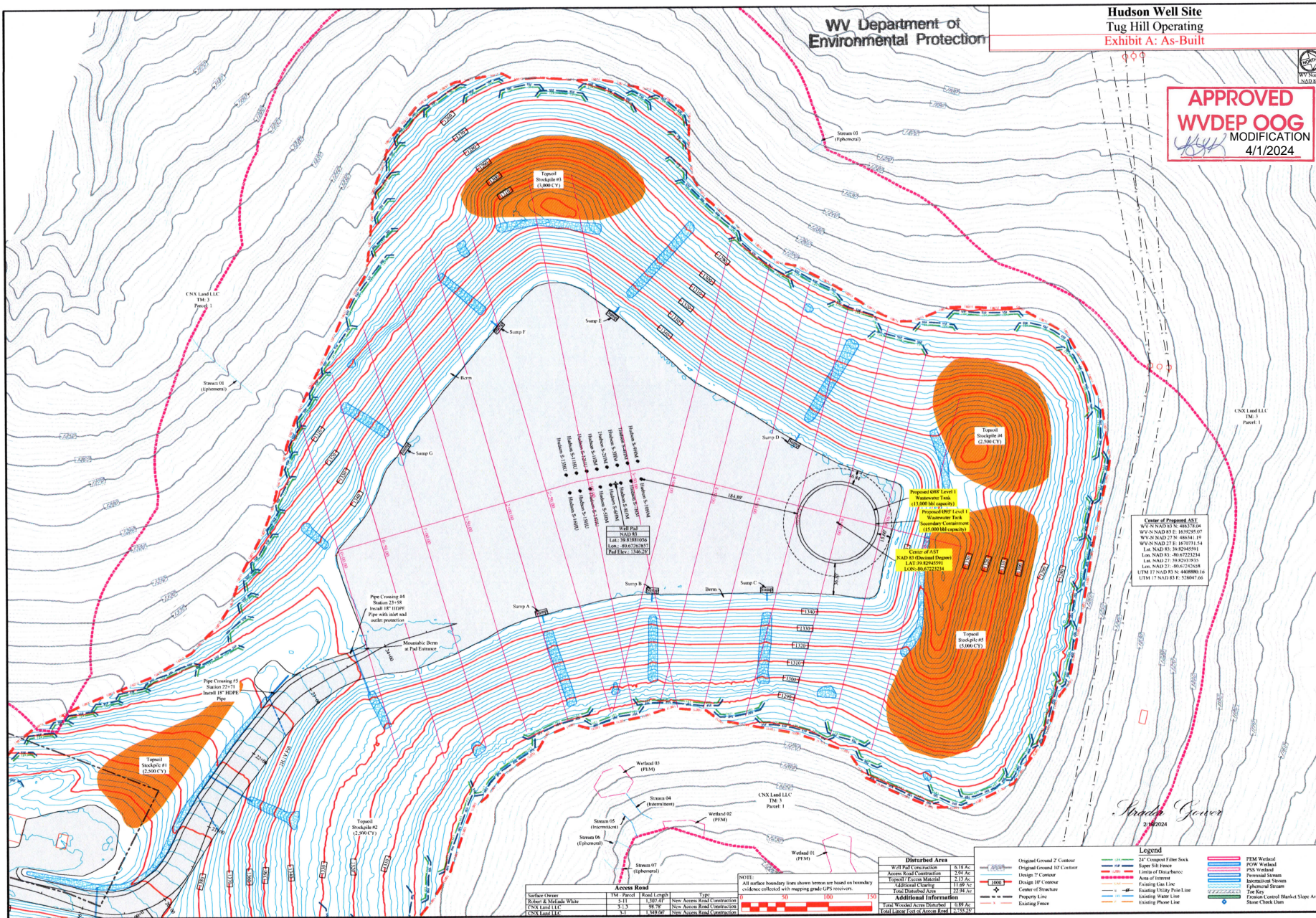
Cover Sheet  
 Hudson Well Site  
 Meade District  
 Marshall County, WV  
 Date: 03/04/2021  
 Scale: As Shown  
 Designed By: J.S.  
 File No.  
 Sheet 1 of 11

FEB 27 2024

WV Department of  
Environmental Protection

Hudson Well Site  
Tug Hill Operating  
Exhibit A: As-Built

APPROVED  
WVDEP OOG  
MODIFICATION  
4/1/2024



SECTION: AS-Built - Proposed AS1 Location

DATE: 03/04/2024

TUG HILL OPERATING

THIS DOCUMENT PREPARED FOR TUG HILL OPERATING

K-Surveying

Site Plan  
Hudson Well Site  
Menafe District  
Marshall County, WV

Date: 03/04/2024  
Scale: As Shown  
Designed By: ZS  
File No:  
Sheet 7 of 11