



west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Friday, July 14, 2023
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit Modification Approval for DENVER 1H
47-103-03513-00-00

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: DENVER 1H
Farm Name: AUDREY L LAVELLE
U.S. WELL NUMBER: 47-103-03513-00-00
Horizontal 6A New Drill
Date Modification Issued: 7/14/2023

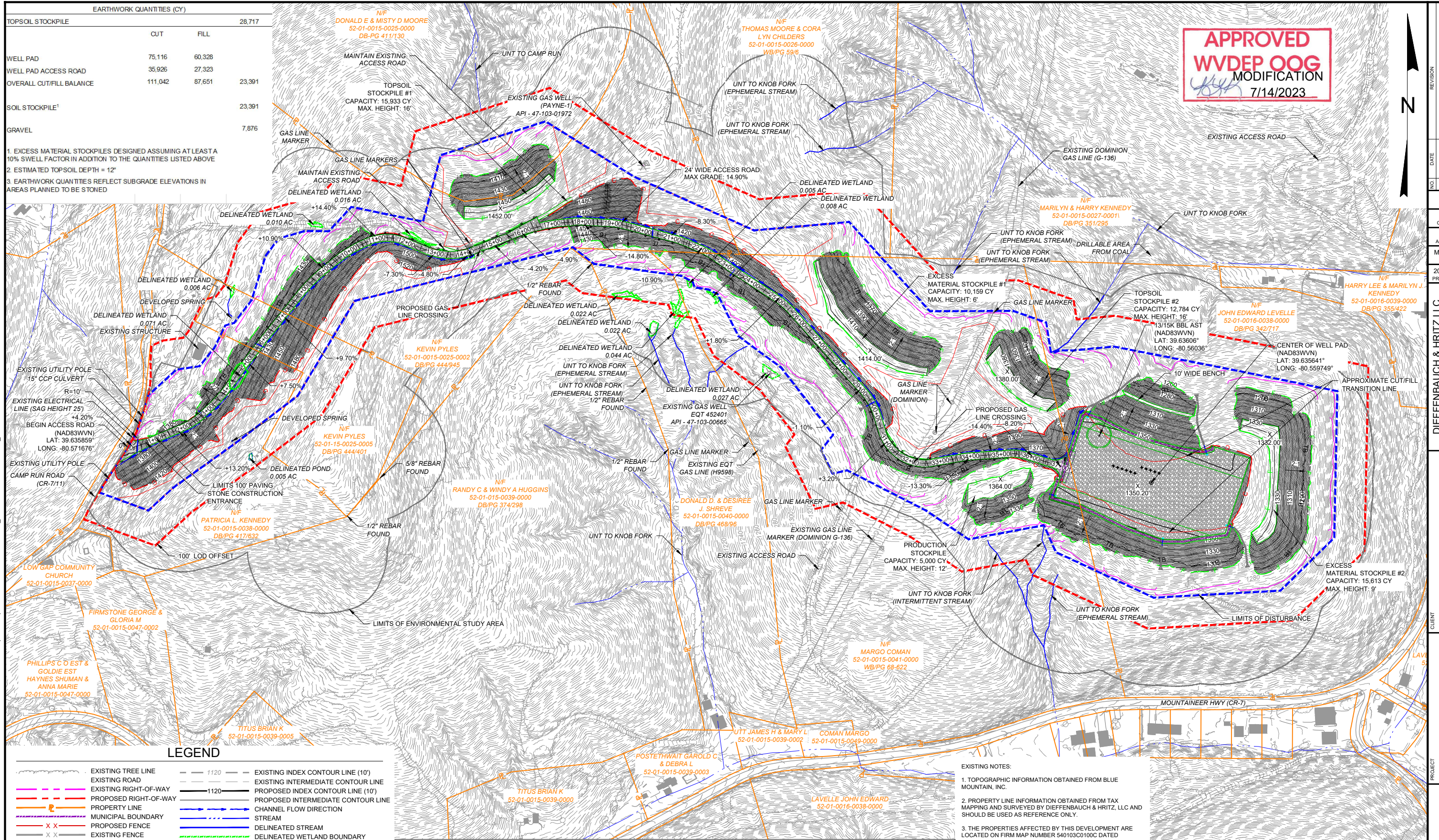
Promoting a healthy environment.

SCALE: 1:300 PLOTTED: 9/17/2023 2:35 PM FILE: X:OIL AND GAS/EQT2020/20070-004 - DENVER/CADD (K DRIVE) - WVPRELIMINARY/DENVER OVERALL E&S SITE PLAN 5.17.23.DWG

EARTHWORK QUANTITIES (CY)

TOPSOIL STOCKPILE	CUT	FILL		
			28,717	
WELL PAD	75,116	60,328		
WELL PAD ACCESS ROAD	35,926	27,323		
OVERALL CUT/FILL BALANCE	111,042	87,651	23,391	
SOIL STOCKPILE ¹			23,391	
GRAVEL			7,876	

- EXCESS MATERIAL STOCKPILES DESIGNED ASSUMING AT LEAST A 10% SWELL FACTOR IN ADDITION TO THE QUANTITIES LISTED ABOVE
- ESTIMATED TOPSOIL DEPTH = 12"
- EARTHWORK QUANTITIES REFLECT SUBGRADE ELEVATIONS IN AREAS PLANNED TO BE STONED



APPROVED
WVDEP OOG
MODIFICATION
7/14/2023



NO.	DATE	REVISION
TMR	DRAWN	
BLB	CHECKED	
HLP	APPROVED	
MAY 2023	DATE	
20070-004	PROJECT NO.	
DIEFFENBAUCH & HIRTZ, LLC	CLIENT	
1025 Cherry Road, Suite 200	PROJECT	
Morgantown, WV 26501		
www.diaengineers.com		
P. 304.985.5555 F. 304.985.5557		
EQT PRODUCTION COMPANY	CUSTOMER	
DENVER WELL SITE	PROJECT	
WETZEL COUNTY, WV		
OVERALL E&S SITE PLAN	TITLE	
1	DRAWING NO.	

LEGEND

- EXISTING TREE LINE
- EXISTING ROAD
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY
- PROPERTY LINE
- MUNICIPAL BOUNDARY
- PROPOSED FENCE
- EXISTING FENCE
- EXISTING ELECTRIC LINE
- EXISTING GAS LINE
- PROPOSED GAS LINE
- PROPOSED WATER LINE
- FILL LIMITS
- CUT LIMITS
- TOE BENCH WITH DRAIN
- ROADWAY CENTERLINE
- SAFETY BERM
- LIMITS OF DISTURBANCE
- EXISTING UTILITY POLE
- EXISTING INDEX CONTOUR LINE (10')
- EXISTING INTERMEDIATE CONTOUR LINE
- PROPOSED INDEX CONTOUR LINE (10')
- PROPOSED INTERMEDIATE CONTOUR LINE
- CHANNEL FLOW DIRECTION
- STREAM
- DELINEATED STREAM
- DELINEATED WETLAND BOUNDARY
- FLOODWAY BOUNDARY
- RIPARIAN BUFFER
- SILT FENCE (SF)
- TRIPLE CFS STACK / CFS SEDIMENT TRAP
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- EXISTING STRUCTURE
- PERMANENT PAVED
- TEMPORARY GRAVEL
- PERMANENT GRAVEL

SCALE: 0 150 FT.

WELL DESIGNATION	DENVER WELL LOCATIONS							
	LAT(NAD83)	LO(NAD83)	NORTHING(NAD83)	EASTING(NAD83)	NORTHING(NAD27)	EASTING(NAD27)	NORTHING(NAD 83 UTM METERS)	EASTING(NAD83 UTM METERS)
2H	39 38 08.83763	80 33 36.68840	415448.8445	1669926.224	415411.386	1701364.221	4387426.950	537740.708
4H	39 38 08.79243	80 33 36.50578	415444.1030	1669940.455	415406.644	1701378.452	4387425.578	537745.068
6H	39 38 08.74723	80 33 36.32317	415439.3615	1669954.686	415401.902	1701392.683	4387424.206	537749.428
8H	39 38 08.70203	80 33 36.14056	415434.6201	1669968.917	415397.160	1701406.914	4387422.833	537753.787
10H	39 38 08.65683	80 33 35.95795	415429.8786	1669983.148	415392.418	1701421.144	4387421.461	537758.147
12H	39 38 08.61163	80 33 35.77533	415425.1371	1669997.378	415387.677	1701435.375	4387420.089	537762.507
1H	39 38 08.80175	80 33 35.49529	415444.1138	1670019.512	415406.653	1701457.507	4387425.983	537769.153
3H	39 38 08.75655	80 33 35.31268	415439.3723	1670033.743	415401.911	1701471.738	4387424.611	537773.513
5H	39 38 08.71135	80 33 35.13006	415434.6309	1670047.974	415397.169	1701485.969	4387423.239	537777.873
7H	39 38 08.66615	80 33 34.94745	415429.8894	1670062.205	415392.427	1701500.199	4387421.867	537782.232
9H	39 38 08.62095	80 33 34.76484	415425.1479	1670076.435	415387.685	1701514.430	4387420.495	537786.592

- EXISTING NOTES:**
- TOPOGRAPHIC INFORMATION OBTAINED FROM BLUE MOUNTAIN, INC.
 - PROPERTY LINE INFORMATION OBTAINED FROM TAX MAPPING AND SURVEYED BY DIEFFENBAUCH & HIRTZ, LLC AND SHOULD BE USED AS REFERENCE ONLY.
 - THE PROPERTIES AFFECTED BY THIS DEVELOPMENT ARE LOCATED ON FIRM MAP NUMBER 540103C0100C DATED 9/25/2009. THE LIMITS OF DISTURBANCE PROPOSED WITH THIS DEVELOPMENT IS LOCATED IN ZONE (X) AS DEFINED BY THE FIRM.
 - RECEIVING STREAMS: THIRTEEN (13) UNNAMED TRIBUTARIES TO KNOB FORK AND THREE (3) UNNAMED TRIBUTARIES TO CAMP RUN.
 - GEOTECHNICAL INVESTIGATIONS WERE CONDUCTED BY GEOTECH ENGINEERING, INC. AS PART OF THIS DESIGN. REFER TO GEOTECH ENGINEERING, INC. GEOTECHNICAL REPORT FOR A DETAILED DATA (PROJECT DENVER WELL SIRE DATED SEPT 1, 2020). ADJUSTMENTS TO CUT AND FILL SLOPES SHOULD NOT BE MADE UNLESS REVIEWED BY GEOTECH ENGINEERING, INC. AND DIEFFENBAUCH & HIRTZ, LLC.
 - LIMITS OF DISTURBANCE: 47.49 ACRES

DRAWING NO. 1