

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47 - 017 - 06939 County Doddridge District Grant
Quad Smithburg 7.5' Pad Name Lemley Pad Field/Pool Name -----
Farm name Brian D. Lemley & Christy M. Lemaster ET AL. Well Number Trainer Unit 1H
Operator (as registered with the OOG) Antero Resources Corporation
Address 1615 Wynkoop Street City Denver State CO Zip 80202

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4353052m Easting 527564m
Landing Point of Curve Northing 4352945.86m Easting 527556.91m
Bottom Hole Northing 4348705m Easting 529019m

Elevation (ft) 1304' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
Air - Foam & 4% KCL
Mud - Polymer

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Office of Oil and Gas
JUN 2 2023
WV Department of
Environmental Protection

Date permit issued 7/7/2022 Date drilling commenced 9/12/2022 Date drilling ceased 11/17/2022
Date completion activities began 1/15/2023 Date completion activities ceased 3/7/2023
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 357', 613', 856' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1460', 1673' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 980' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

APPROVED

Reviewed by:
IMR
7/15/2024 02/09/2024

API 47-017 - 06939 Farm name Brian D. Lemley & Christy M. Lemaster ET AL. Well number Trainer Unit 1H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	28"	20"	130'	New	78.67#, X-60	N/A	Y
Surface	17-1/2"	13-3/8"	918'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3303'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	22436'	New	23#, P110-ICY	N/A	Y
Tubing		2-3/8"	7229'		4.7#, P-110		
Packer type and depth set		N/A					

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	195 sx	15.6	1.18	230	0'	8 Hrs.
Surface	Class A	1032 sx	15.8	1.16	1197	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1140 sx	15.8	1.16	1322	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	3610 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.25 (Tail)	4513	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 22436' MD, 7146' TVD (BHL), 7217' (Deepest Point Drilled) Loggers TD (ft) 22436' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

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Kick off depth (ft) 6334'

WV Department of Environmental Protection

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

Conductor - 0
 Surface - 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface
 Intermediate - 1 above float joint, 1 above float collar, 1 every 4th joint to surface
 Production - 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED N/A

API 47- 017 - 06939

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Well number Trainer Unit 1H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
*PLEASE SEE ATTACHED EXHIBIT 1					
					RECEIVED Office of Oil and Gas

Please insert additional pages as applicable.

JUN 2 2023

WV Department of Environmental Protection

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
*PLEASE SEE ATTACHED EXHIBIT 2								

Please insert additional pages as applicable.

02/09/2024

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>7144' (TOP)</u>	<u>TVD</u>	<u>7407' (TOP)</u> MD
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump
 SHUT-IN PRESSURE Surface 3078 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 10957.9 mcfpd Oil 0.02 bpd NGL --- bpd Water 6.47 bpd GAS MEASURED BY Estimated Orifice Pilot

<u>LITHOLOGY/ FORMATION</u>	<u>TOP DEPTH IN FT</u>	<u>BOTTOM DEPTH IN FT</u>	<u>TOP DEPTH IN FT</u>	<u>BOTTOM DEPTH IN FT</u>	<u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)</u>
	<u>NAME</u>	<u>TVD</u>	<u>MD</u>	<u>MD</u>	

***PLEASE SEE ATTACHED EXHIBIT 3**

					RECEIVED Office of Oil and Gas
					JUN 2 2023
					WV Department of Environmental Protection

Please insert additional pages as applicable.

Drilling Contractor H & P Drilling
 Address 912 N Eagle Valley Rd City Howard State PA Zip 16841

Logging Company Nine Energy Services
 Address 6500 West Fwy City Fort Worth State TX Zip 76116

Cementing Company Halliburton Energy Services
 Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

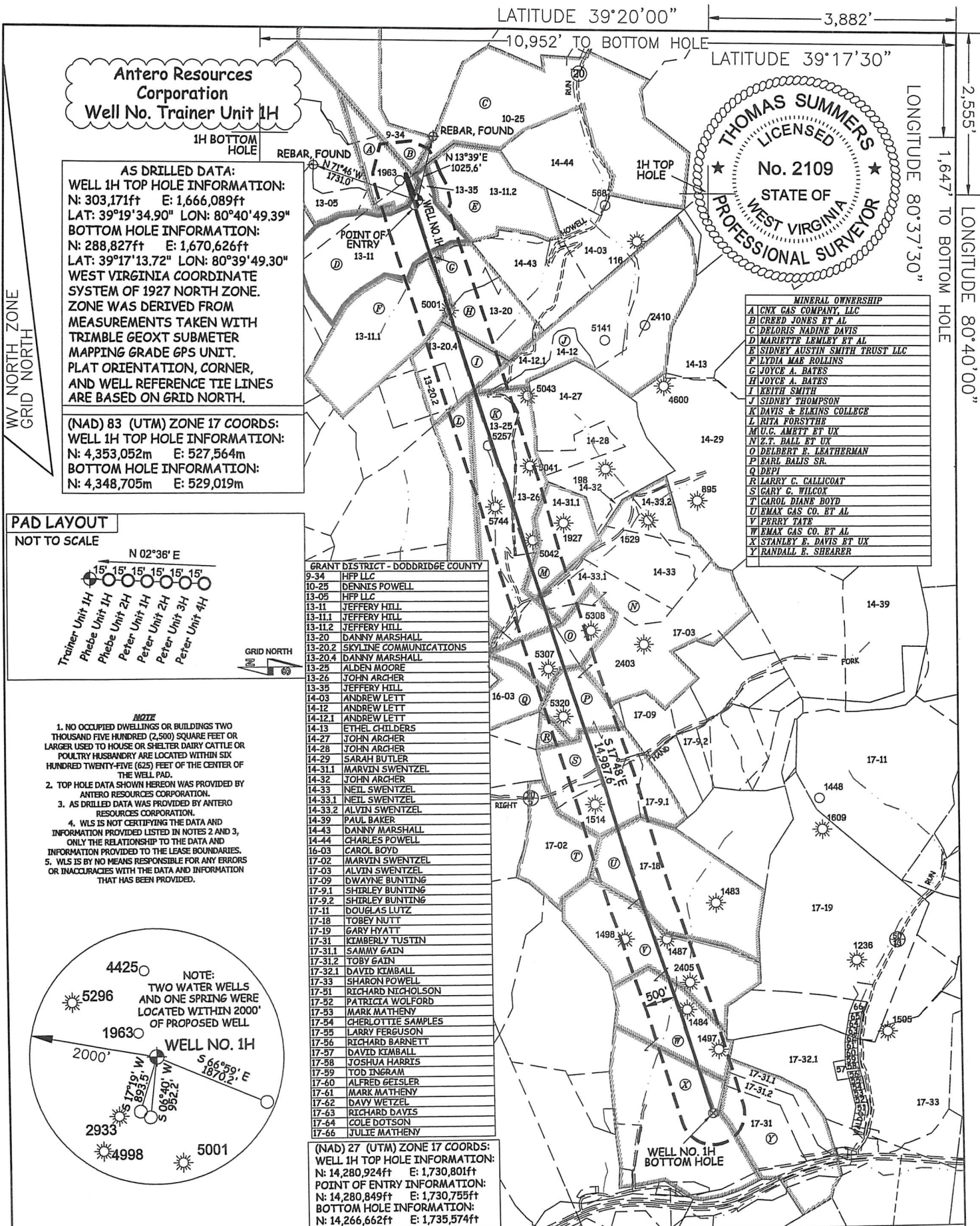
Stimulating Company Halliburton
 Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

Please insert additional pages as applicable.

Completed by Carly Marvel Telephone 303-357-7373
 Signature Carly Marvel Title Permitting Agent Date 5/30/2023

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

02/09/2024



Antero Resources Corporation
Well No. Trainer Unit 1H

AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
N: 303,171ft E: 1,666,089ft
LAT: 39°19'34.90" LON: 80°40'49.39"
BOTTOM HOLE INFORMATION:
N: 288,827ft E: 1,670,626ft
LAT: 39°17'13.72" LON: 80°39'49.30"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 4,353,052m E: 527,564m
BOTTOM HOLE INFORMATION:
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WV NORTH ZONE
GRID NORTH

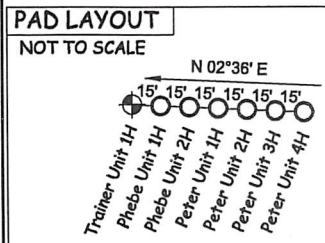
MINERAL OWNERSHIP

A	CNX GAS COMPANY, LLC
B	CREED JONES ET AL
C	DEBORIS NADINE DAVIS
D	MARIETTE LEMLEY ET AL
E	SIDNEY AUSTIN SMITH TRUST LLC
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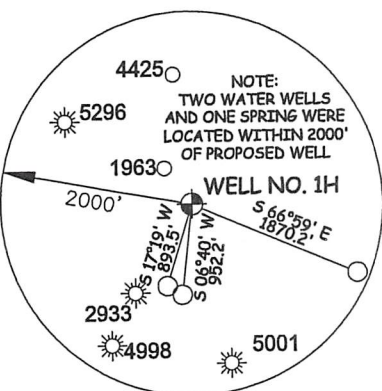
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(NAD) 27 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 14,280,924ft E: 1,730,801ft
POINT OF ENTRY INFORMATION:
N: 14,280,849ft E: 1,730,755ft
BOTTOM HOLE INFORMATION:
N: 14,266,662ft E: 1,735,574ft



- NOTE**
- NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.
 - TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
 - AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
 - WLS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN NOTES 2 AND 3, ONLY THE RELATIONSHIP TO THE DATA AND INFORMATION PROVIDED TO THE LEASE BOUNDARIES.
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JOB # 17-030WA
DRAWING # TRAINER1HAD
SCALE 1" = 2000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



STATE OF WEST VIRGINIA, DIVISION
OF ENVIRONMENTAL PROTECTION,
OFFICE OF OIL AND GAS

WILLOW LAND SURVEYING PLLC
220 MASONIC AVE. PENNSBORO
WEST VIRGINIA 26415

LEGEND

- Surface Owner Boundary Lines +/-
- Interior Surface Tracts +/-
- Proposed Well Path
- As Drilled Well Path

THOMAS SUMMERS P.S. 2109
DATE 05/09/23

OPERATOR'S WELL# TRAINER UNIT 1H
API WELL # 47 - 017 - 06939
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1,304' AS BUILT WATERSHED MCELROY CREEK
QUADRANGLE SMITHBURG 7.5' DISTRICT GRANT COUNTY DODDRIDGE

SURFACE OWNER BRIAN D. LEMLEY & CHRISTY M. LEMASTER ET AL ACREAGE 59.08 ACRES +/-

OIL & GAS ROYALTY OWNER MARIETTE LEMLEY ET AL; CNX GAS COMPANY, LLC; JOYCE A. BATES; LYDIA MAE ROLLINS; JOYCE A. BATES; KEITH SMITH; SIDNEY THOMPSON; DAVIS & ELKINS COLLEGE; U.G. AMETT ET UX; Z.T. BALL ET UX; DELBERT F. LEATHERMAN; EARL BALIS SR.; GARY G. WILCOX; EMAX GAS CO. ET AL; PERRY TATE; EMAX GAS CO. ET AL; STANLEY E. DAVIS ET UX LEASE ACREAGE 66.87 AC±; 19.56 AC±; 0.5 AC±; 66.5 AC±; 47.88 AC±; 27.8 AC±; 98 AC±; 89 AC±; 28 AC±; 138 AC±; 52 AC±; 52 AC±; 62 AC±; 81 AC±; 70 AC±; 40.75 AC±; 100 AC±

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL
(SPECIFY) AS DRILLED PLUG & ABANDON CLEAN OUT & REPLUG

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,146' TVD 22,436' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT KEVIN ELLIS
ADDRESS 1615 WYNKOOP STREET ADDRESS 535 WHITE OAKS BLVD
FORM WW-6 DENVER, CO 80202 BRIDGEPORT, WV 26330

05/09/2024

COUNTY NAME PERMIT

LATITUDE 39°20'00"

3,882'

LATITUDE 39°17'30"

LONGITUDE 80°37'30"

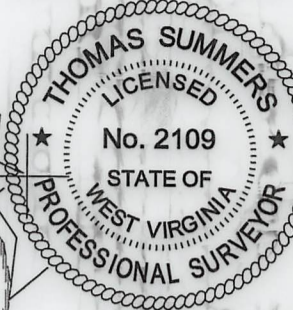
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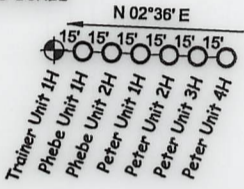
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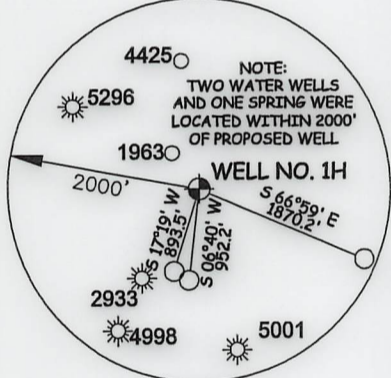


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PAD LAYOUT NOT TO SCALE



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 OF ENVIRONMENTAL PROTECTION,
 OFFICE OF OIL AND GAS

LEGEND
 - - - Surface Owner Boundary Lines +/-
 - - - Interior Surface Tracts +/-
 O Proposed Well Path
 O As Drilled Well Path

Thomas Summers
 THOMAS SUMMERS P.S. 2109

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 DEPARTMENT OF ENERGY
 DIVISION OF OIL AND GAS
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 ADDRESS 1615 WYNKOOP STREET ADDRESS 535 WHITE OAKS BLVD
 FORM WW-6 DENVER, CO 80202 ADDRESS BRIDGEPORT, WV 26330

02/09/2024

COUNTY NAME
PERMIT