

LATITUDE 39°27'30"

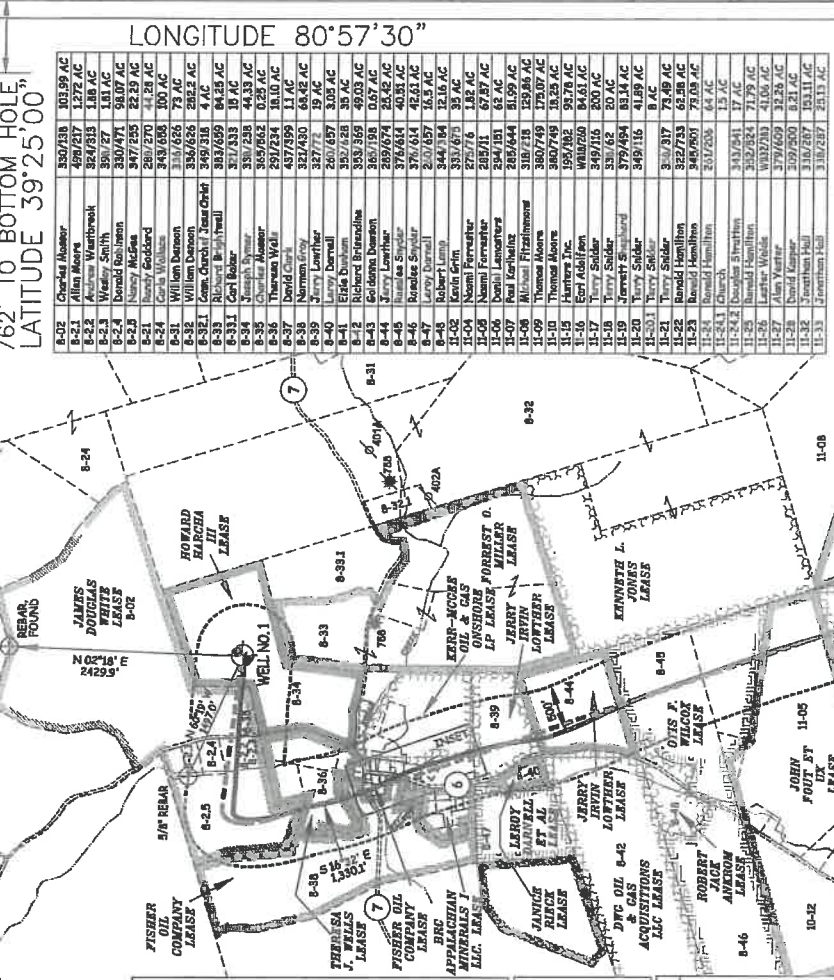
3,196'

762' TO BOTTOM HOLE,
LATITUDE 39°25'00"

LONGITUDE 80°57'30"

15,105'

LONGITUDE 80°57'30"



Antero Resources Corporation
Well No. Carse Unit 1H

AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
N: 337,337ft E: 1,584,808ft
LAT: 39°25'00.71" N: 80°58'10.73"
BOTTOM HOLE INFORMATION:
N: 325,617ft E: 1,587,051ft
LAT: 39°23'04.26" N: 80°57'39.70"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOMX 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: 4,363,047m E: 502,627m
BOTTOM HOLE INFORMATION:
N: 4,359,458m E: 503,371m



| LINE | BEARING | DISTANCE |
|------|-------------|----------|
| L1 | S 89°59' E | 1327.0 |
| L2 | S 89°49' E | 1106.3 |
| L3 | S 89°49' E | 1068.3 |
| L4 | S 89°49' E | 1068.3 |
| L5 | S 107°14' W | 1788.2 |
| L6 | S 20°58' W | 1421.0 |
| L7 | S 82°14' W | 1074.9 |
| L8 | S 37°06' W | 1381.3 |
| L9 | S 37°06' W | 1058.1 |
| L10 | S 44°37' W | 1074.9 |
| L11 | S 44°37' W | 1074.9 |
| L12 | S 49°56' W | 1001.2 |
| L13 | S 78°10' W | 845.7 |
| L14 | S 53°07' W | 1208.7 |

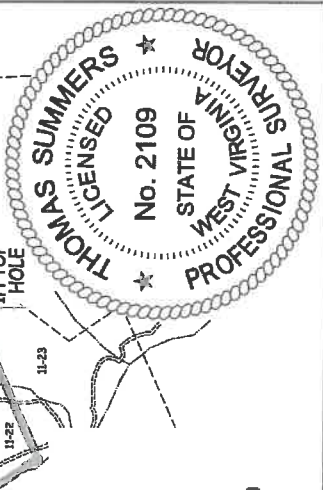
THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



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

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

RECEIVED
Office of Oil and Gas
AUG 31 2020
WV Department of Environmental Protection



1. 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.

2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY:

3. AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.

4. WLS PROVIDED THE DATA AND INFORMATION PROVIDED TO THE DATA AND ONLY THE RELATIONSHIP TO THE DATA AND INFORMATION PROVIDED TO THE LEASE BOUNDARIES.

5. WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.

LEGEND

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

THOMAS SUMMERS P.S. 2109
DATE 03/09/20
OPERATOR'S WELL # CARSE UNIT #H

JOB # 17-022WA
DRAWING # CARSEHAD
SCALE 1" = 2000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

WELL TYPE: OIL LIQUID INJECTION WASTE DISPOSAL SHALLOW DEEP

(IF "GAS") PRODUCTION STORAGE DEEP

LOCATION: ELEVATION 986' - AS BUILT WATERSHED QUADRANGLE MIDDLEBOURNE 7.5

SURFACE OWNER JOSEPH R. RYMER JR. ACREAGE 44.33 ACRES +/-
OIL & GAS ROYALTY OWNER HOWARD HARGRA III, JAMES D. WHITE, THERESA J. WELLS, FISHER OIL COMPANY, PHILIP J. LEASE ACREAGE 44.33 AC +/- 184.53 AC +/- 17.5 AC +/- 68.5 AC +/- 0.84 AC +/-
HAMILTON FISHER OIL COMPANY, RICHARD J. KROBIDE, KERMIT C. MASSOR ET UX, LARRY D. MAULLEN, KERR-MCGEE OIL & GAS ONSHORE LP, HERRY IRVIN LOWTHER, 3.81 AC +/- 0.38 AC +/- 5.34 AC +/- 0.64 AC +/- 23.97 AC +/- 16.5 AC +/-
JERRY IRVIN LOWTHER, OTIS F. WILCOX, JOHN FOUT ET UX, S.A. SMITH ET AL., ALLEN SMITH, RALPH PHILLIPS ET UX, MICHAEL E. ANGRIM, RONALD P. HAMILTON 25 AC +/- 83.76 AC +/- 112.8 AC +/- 47.50 AC +/- 48.18 AC +/- 68.3 AC +/- 61 AC +/- 62.8 AC +/-

PROPOSED WORK: DRILL CONVERT PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION DRILL DEEPER REFRILL CLEAN OUT & REPLUG

TARGET FORMATION MARCELLUS
WELL OPERATOR ANTERO RESOURCES CORP. ESTIMATED DEPTH
ADDRESS 1615 WYNKOOP ST. DESIGNATED AGENT
FORM WW-6 DENVER, CO 80202

DIANNA STAMPER - CT CORPORATION SYSTEM.
5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

COUNTY NAME PERMIT
STATE COUNTY COUNTY TYLER PERMIT
DISTRICT MEADE COUNTY TYLER
ACREAGE 44.33 ACRES +/-