

Antero Resources
Well No. Manzarek Unit 1H
Antero Resources Corporation

Well Location References

Scale: 1" = 300' 5/8" Rebar w/ Cap

Az 95° 281' Az 237° 318'

Proposed Well No. Manzarek Unit 1H

Yvonne Drill Pad

247/566 125 Ac. James M. & Nick Petrovich 232/686 70 acres

47-017-3686

36° Chestnut Oak

Joseph C. Moffatt et al Lease

Freeman Paul Smith et ux, et al Lease

Ed Broome Inc, Memorandum of Oil & Gas Lease

Detail not to Scale

Wellhead Layout

S 26°27' W 10.0'

Manzarek Unit 2H (47-017-6532)

Manzarek Unit 1H (47-017-6531)

Proposed Manzarek Unit 1H

Yolo Unit 1H (47-017-6543)

Burlington Unit 2H (47-017-6530)

Burlington Unit 1H (47-017-6529)

Walker Unit 3H (47-017-6698)

Walker Unit 2H (47-017-6697)

Walker Unit 1H (47-017-6696)

Detail Not to Scale

ID	Mineral Owners
A	Ed Broome Inc, Memorandum of Oil & Gas Lease
B	Ed Broome Inc, Memorandum of Oil & Gas Lease
C	Joseph C. Moffatt, et al Lease

ID	TM/Par	Owner	Bk /Pg	Acres
1	2/16	David & Lucy Mae Spurling	219/213	20.95
2	4/4.2	David & Lucy Mae Spurling	219/213	10.69
3	4/4	David & Lucy Mae Spurling	219/213	20.75
4	2/15	Ronnie D. Smith, et al	253/696	23.07
5	2/14	Ronnie D. Smith & Thomas G. Smith	259/232	31.00
6	4/11	Gary Lynn McMillan	195/237	7.19
7	4/3.3	James A. Smith	266/94	20.00
8	4/19	Naomi Beagle, et al	AP 19/594	33.25
9	4/20	Stella E. Spencer, et al	103/53	31.50
10	4/4.1	David & Lucy Mae Spurling	219/213	31.50

Legend

- Proposed gas well
- Found corner, as noted
- Existing Well, as noted
- Creek or Drain
- Existing Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)

Notes:

West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.

Well No. Manzarek Unit 1H Top Hole coordinates are
 N: 311,670.43' Latitude: 39°20'55.52"
 E: 1,640,990.44' Longitude: 80°46'10.29"
 Bottom Hole coordinates are
 N: 317,479.07' Latitude: 39°21'52.52"
 E: 1,638,115.38' Longitude: 80°46'47.93"
 UTM Zone 17, NAD 1983

Top Hole Coordinates Bottom Hole Coordinates
 N: 4,355,514.012m N: 4,357,268.995m
 E: 519,873.942m E: 518,968.528m

Plat orientation and corner and well references are based upon the grid north meridian.

Well location references are based upon the magnetic meridian.

Notes:

Well No. Manzarek Unit 1H UTM Zone 17, NAD 1927

Top Hole Coordinates
 N: 14,289,000.60'
 E: 1,705,572.46'

Point of Entry Coordinates
 N: 14,288,727.24'
 E: 1,705,037.01'

Bottom Hole Coordinates
 N: 14,294,758.47'
 E: 1,702,601.93'

Bearing	Dist.
L1 S 63°55' W	601.4'
L2 S 36°01' E	764.1'
L3 N 88°21' W	594.8'
L4 N 66°51' W	2144.7'
L5 N 36°22' W	2747.3'

(⊙) Denotes Location of Well on United States Topographic Maps



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 prescribed by the Department of Environmental Protection.

Kenneth J. Plum
 Kenneth J. Plum, P.S. 2216



FILE NO: 264-30(54)-M(G)-14
 DRAWING NO: Manzarek 1H Well Plat 06-01-16
 SCALE: 1" = 1500'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

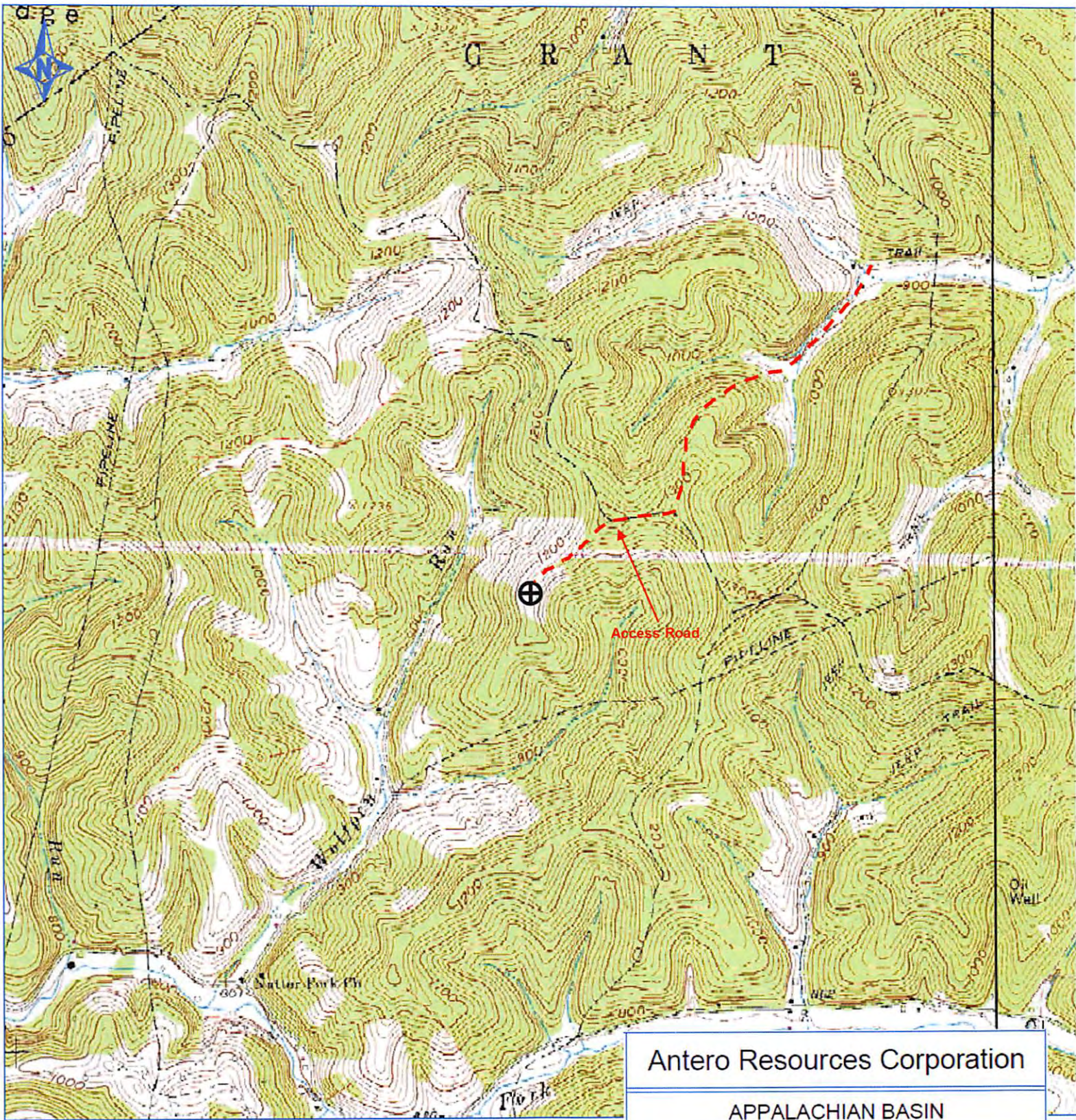
DATE: June 2 20 16
 OPERATOR'S WELL NO. Manzarek Unit 1H
 API WELL NO. HGA
 47 - 017 - 06775
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 Proposed Grade-1227'
 LOCATION: ELEVATION: Original Grade-1253' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union
 DISTRICT: West Union COUNTY: Doddridge

SURFACE OWNER: Yvonne Foster Patrick A. Costlow, et ux, et al; D&D Spencer Enterprises Co ACREAGE: 125.48
 Ed Broome Inc, Memorandum of Oil & Gas Lease 78,973; 73; 23
 ROYALTY OWNER: Freeman Paul Smith, et ux, et al; Joseph C. Moffatt, et al; Diana Lynne Knight LEASE NO: 22173 ACREAGE: 20.75; 125; 283

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,400' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 15,300' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
 Denver, CO 80202 Charleston, WV 25313



Antero Resources Corporation

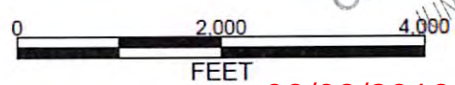
APPALACHIAN BASIN

Yvonne Pad

Manzarek Unit 1H

REMARKS

Quadrangle: West Union
 Watershed: Headwaters Middle Island Creek
 District: West Union



09/09/2016

May 20, 2014

4701703

Received
 Office of Oil & Gas
 JUN 06 2016