

LATITUDE 39°15'00" 1,320'

TO BOTTOM HOLE
LATITUDE 39°15'00"

LONGITUDE 80°50'00"

4,819'

LONGITUDE 80°52'30"

14,808' TO BOTTOM HOLE

COUNTY NAME

PERMIT

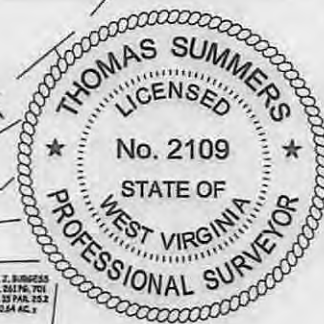
Antero Resources Corporation Well No. Cool Unit 1H

LINE	BEARING	DISTANCE
L1	S 77°58' E	1375.64'
L2	S 78°33' E	1804.51'
L3	S 75°04' E	1554.60'
L4	S 65°46' E	1596.34'
L5	S 64°01' E	1381.04'
L6	S 63°52' E	1636.75'
L7	S 62°31' E	1513.41'
L8	S 55°08' E	1345.06'
L9	S 51°10' E	1176.61'
L10	S 48°41' E	1080.78'
L11	S 48°24' E	1202.08'
L12	S 41°37' E	1125.94'
L13	S 32°54' E	947.63'
L14	S 28° E	1151.25'
L15	S 17°08' E	1113.08'
L16	S 08°23' E	1115.22'
L17	S 01°58' W	1414.85'
L18	S 03°17' W	1426.29'
L19	S 23°05' W	1806.45'
L20	S 42°21' W	1298.64'
L21	S 67°20' W	1416.97'
L22	S 73°44' W	1425.05'

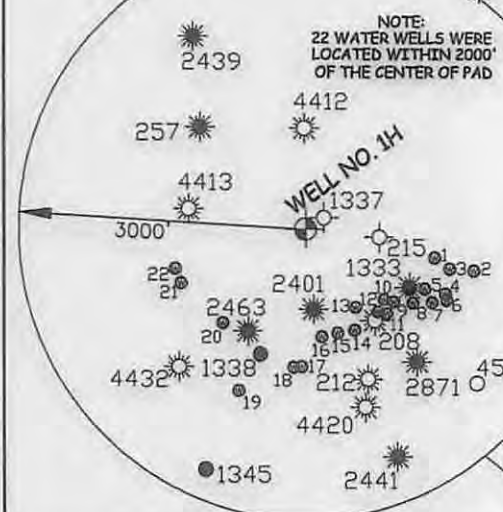
A - STANLEY WEBB D.B. 242 PG. 103 T.A. 15 PAR. 02.2 0.75 AC.
 B - STANLEY WEBB D.B. 152 PG. 112 T.A. 15 PAR. 04.4 0.25 AC.
 C - IRVING WEBB D.B. 192 PG. 327 T.A. 15 PAR. 02.7 2.31 AC.
 D - IRVING WEBB D.B. 192 PG. 327 T.A. 15 PAR. 02.4 0.47 AC.
 E - ROBERT F. HAUGHT ET AL. D.B. 249 PG. 424 T.A. 15 PAR. 02.9 1 AC.
 F - EDWARD WEBB ET AL. D.B. 253 PG. 343 T.A. 15 PAR. 02.5 1.54 AC.
 G - CHEVON O. WOODRUFF ET AL. D.B. 144 PG. 240 T.A. 15 PAR. 02.2 0.19 AC.
 H - JAMES E. WEBB D.B. 273 PG. 449 T.A. 15 PAR. 02.1 0.24 AC.

NOTES:
 WELL 1H TOP HOLE INFORMATION:
 N: 271,347ft E: 1,609,221ft
 LAT: 39°14'12.37" LON: 80°52'46.77"
 BOTTOM HOLE INFORMATION:
 N: 261,318ft E: 1,611,806ft
 LAT: 39°12'33.64" LON: 80°52'11.98"
 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.

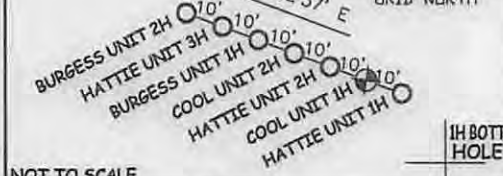
(NAD) 83 (UTM) ZONE 17 COORDS:
 WELL 1H TOP HOLE INFORMATION:
 N: 4,343,068m E: 510,400m
 BOTTOM HOLE INFORMATION:
 N: 4,340,025m E: 511,239m



NOTE:
 NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER LIVESTOCK OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.



PAD LAYOUT



NOT TO SCALE

LEGEND

- Surface Owner Boundary Lines +/-
- - - Interior Surface Tracts +/-
- ⊗ Existing Fence
- ⊕ Iron Pipe, Found

THOMAS SUMMERS P.S. 2109

DATE 04/13/15

OPERATOR'S WELL# COOL UNIT #1H

API WELL # 47 - 017 - 06733

STATE COUNTY PERMIT

REFERENCES

STAKE/NAIL, SET

GRID NORTH

N 17°16' E 166.3'

WELL NO. 1H

S 62°07' E 160.5'

STAKE/NAIL, SET

1" = 200'

JOB # 14-066WA

DRAWING # COOL1HR3

SCALE 1" = 1000'

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 GAS LIQUID INJECTION WASTE DISPOSAL

(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1,108' ORIGINAL - 1,095' PROPOSED WATERSHED NORTH FORK HUGHES RIVER

QUADRANGLE PULLMAN 7.5 (TOP HOLE) OXFORD 7.5 (BOTTOM HOLE) DISTRICT CENTRAL COUNTY DODD

SURFACE OWNER STANLEY WEBB ET AL ACREAGE 59.18 ACRES +/-

OIL & GAS ROYALTY OWNER RALPH LEGGETT ET UX; HAROLD BURGESS ET UX; HAROLD BURGESS ET UX; LEASE ACREAGE 75 ACRES+; 43.5 ACRES+; 29 ACRES+; CUSSIE LEGGETT; SUE ELLEN ABERNATHY; S. BYRIL ROSS ET UX; NATHAN PRIMM ET UX; JOSEPH E. HAUGHT ET UX; RUSSELL GRAY ET AL 169 ACRES+; 65 ACRES+; 195 ACRES+; 37 ACRES+; 66 ACRES+; 225 ACRES+

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

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,400' TVD 19,000' MD

WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER

ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD

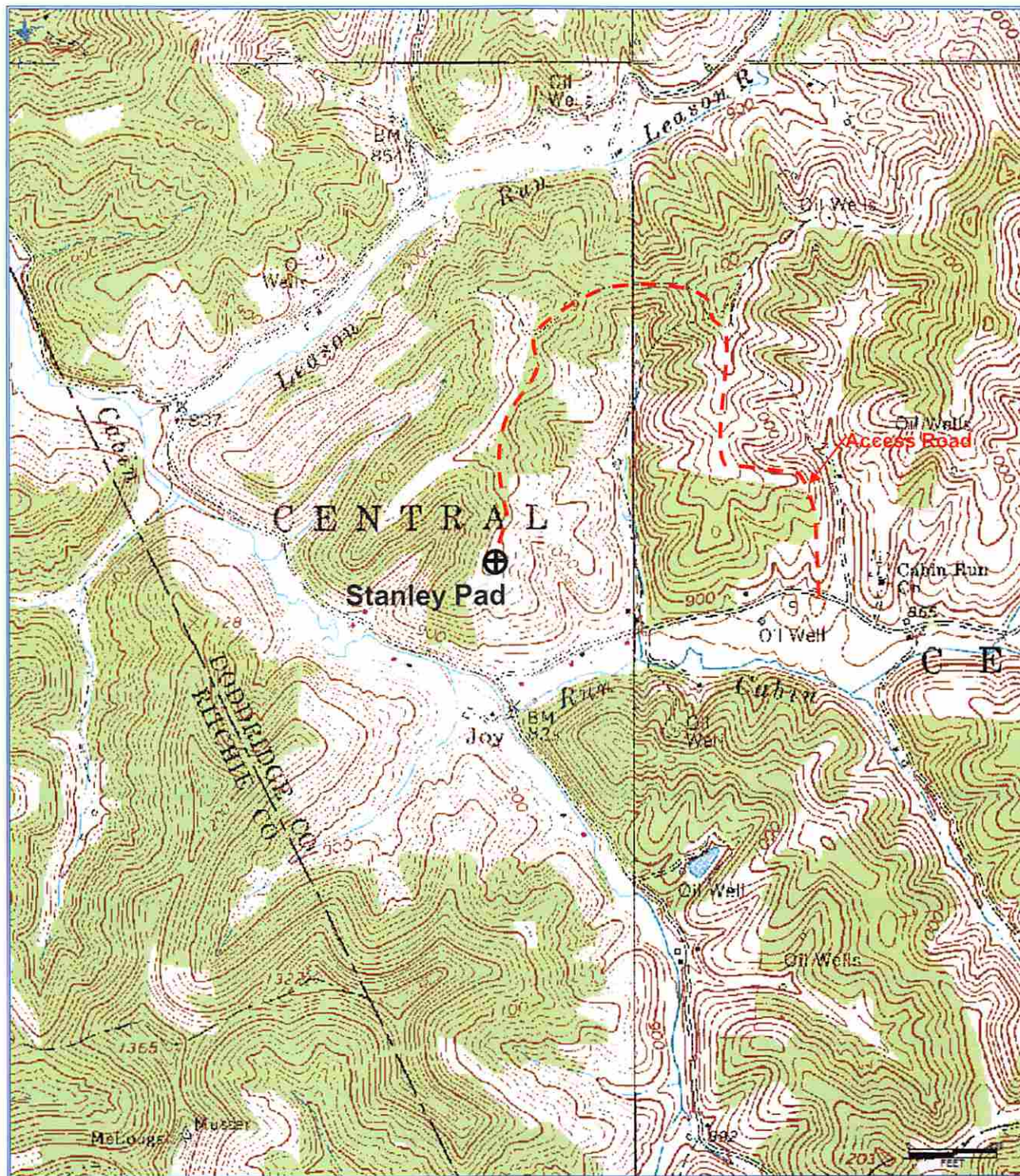
DENVER, CO 80202 CHARLESTON, WV 25313



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

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

07/03/2015



Antero Resources Corporation
Appalachian Basin
Cool Unit 1H
Doddridge County

Quadrangle: Pullman
Watershed: North Fork Hughes River
District: West Union
Date: 3-12-2015

Received
APR 24 2015