

LATITUDE 39°20'00"

4,326'

1,780' TO BOTTOM HOLE

LATITUDE 39°17'30"

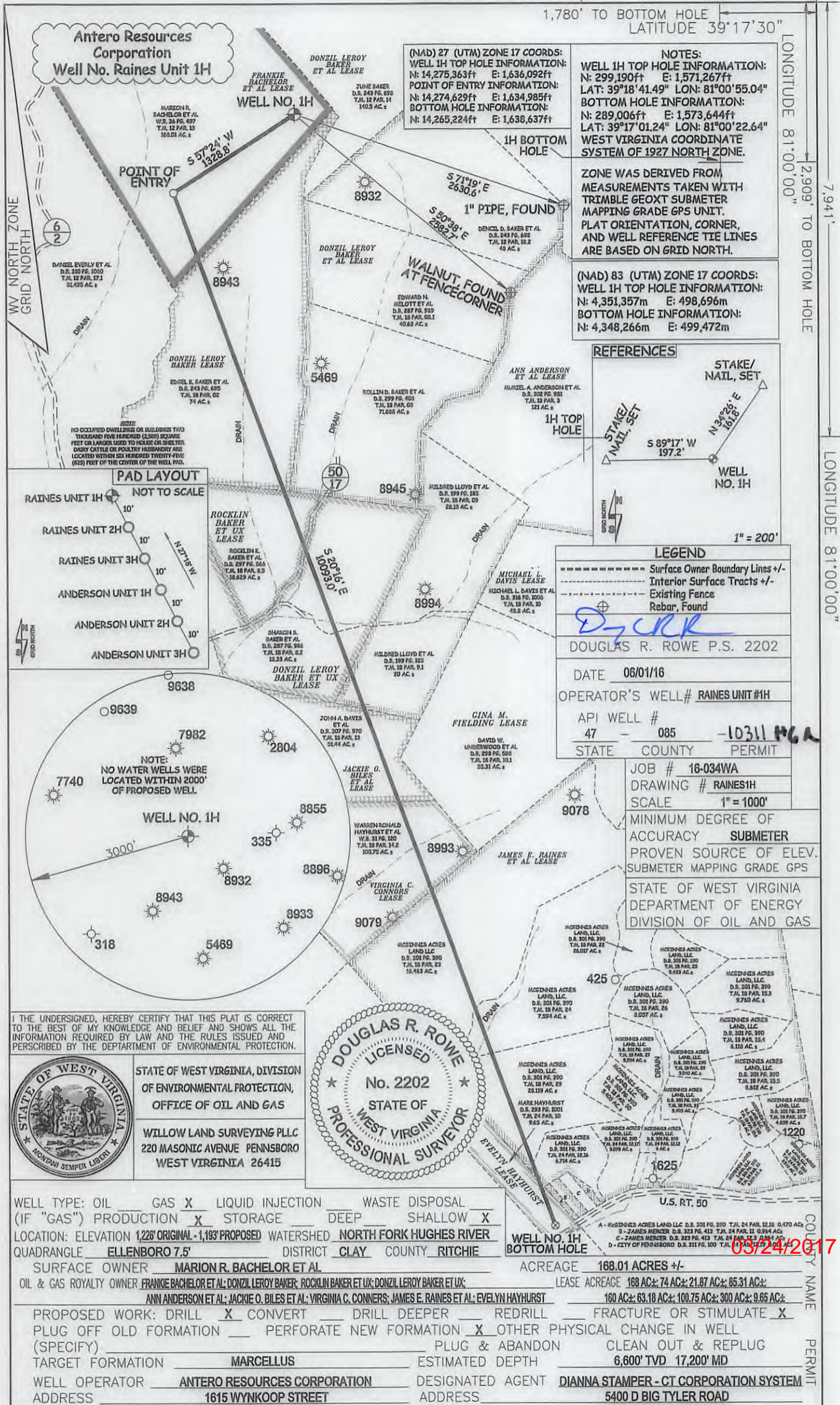
LONGITUDE 81°00'00"

7,941'

LONGITUDE 81°00'00"

COUNTY NAME

PERMIT



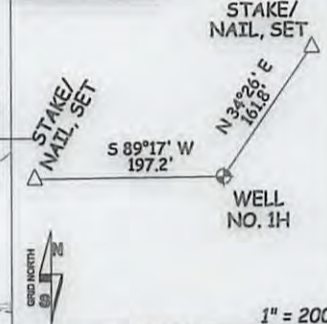
(NAD) 27 (UTM) ZONE 17 COORDS:
 WELL 1H TOP HOLE INFORMATION:
 N: 14,275,363ft E: 1,636,092ft
 POINT OF ENTRY INFORMATION:
 N: 14,274,629ft E: 1,634,985ft
 BOTTOM HOLE INFORMATION:
 N: 14,265,224ft E: 1,638,637ft

NOTES:
 WELL 1H TOP HOLE INFORMATION:
 N: 299,190ft E: 1,571,267ft
 LAT: 39°18'41.49" LON: 81°00'55.04"
 BOTTOM HOLE INFORMATION:
 N: 289,006ft E: 1,573,644ft
 LAT: 39°17'01.24" LON: 81°00'22.64"
 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: 4,351,357m E: 498,696m
 BOTTOM HOLE INFORMATION:
 N: 4,348,266m E: 499,472m

REFERENCES



LEGEND

- Surface Owner Boundary Lines +/-
 - Interior Surface Tracts +/-
 - Existing Fence
 - Rebar, Found
- D. R. ROWE*
 DOUGLAS R. ROWE P.S. 2202

DATE 06/01/16

OPERATOR'S WELL# RAINES UNIT #1H

API WELL #

47 - 085 - 10311 HGA

STATE COUNTY PERMIT

JOB # 16-034WA

DRAWING # RAINES1H

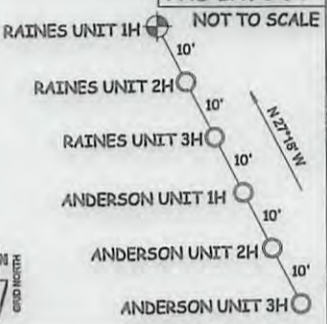
SCALE 1" = 1000'

MINIMUM DEGREE OF ACCURACY SUBMETER

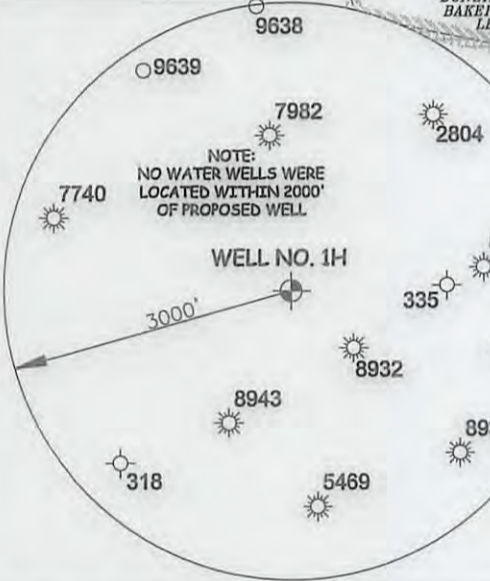
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

PAD LAYOUT



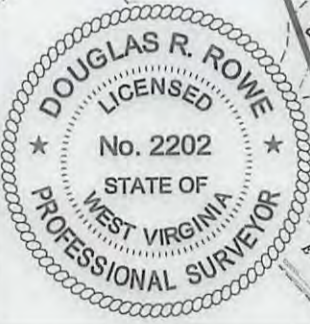
NOTE:
 NO WATER WELLS WERE LOCATED WITHIN 2000' OF PROPOSED WELL



I 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.



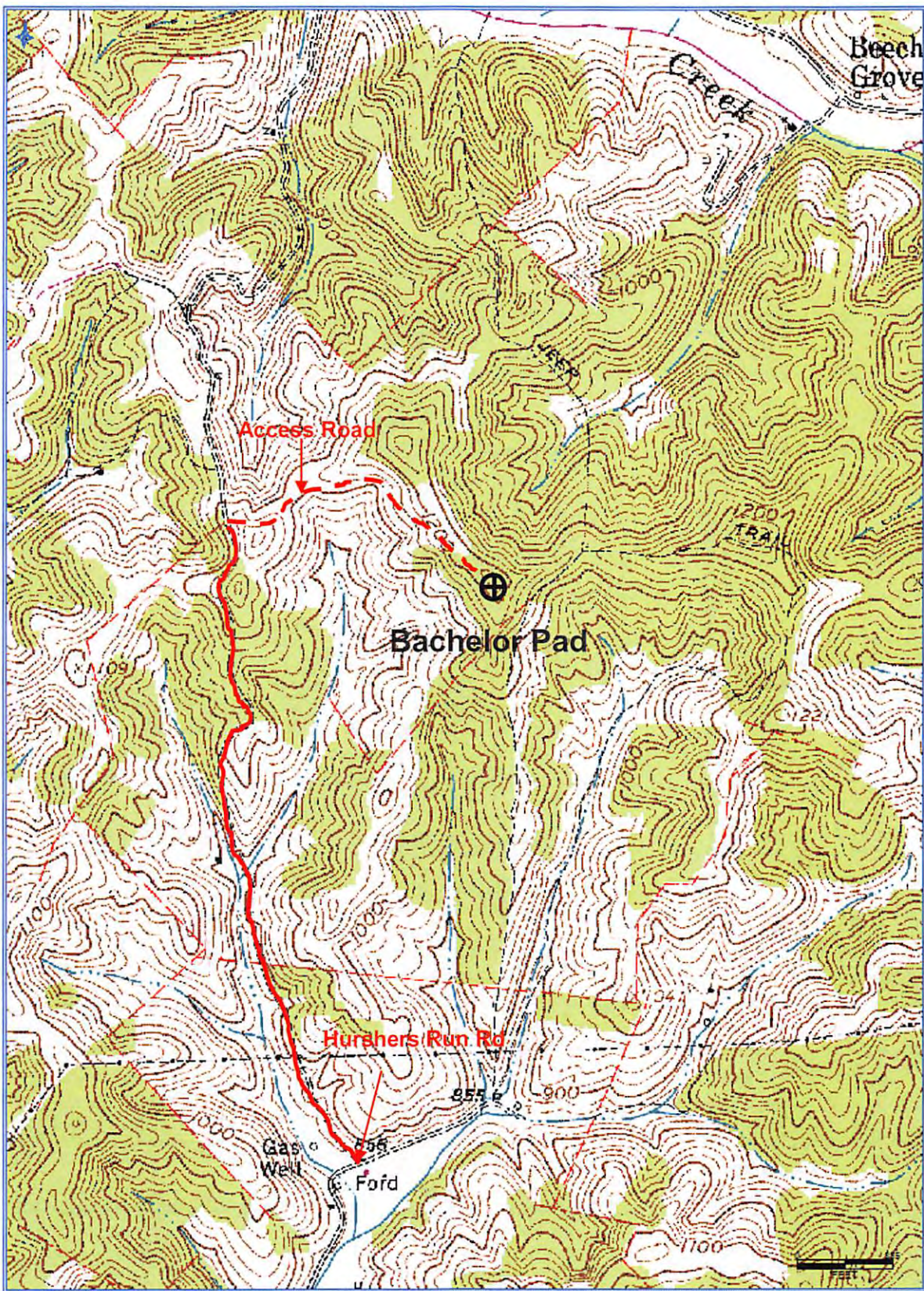
STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WILLOW LAND SURVEYING PLLC
 220 MASONIC AVENUE PENNSBORO WEST VIRGINIA 26415



WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1,226' ORIGINAL - 1,193' PROPOSED WATERSHED NORTH FORK HUGHES RIVER
 QUADRANGLE ELLENBORO 7.5' DISTRICT CLAY COUNTY RITCHIE

SURFACE OWNER MARION R. BACHELOR ET AL ACREAGE 168.01 ACRES +/-
 OIL & GAS ROYALTY OWNER FRANKIE BACHELOR ET AL; DONZIL LEROY BAKER; ROCKLIN BAKER ET UX; DONZIL LEROY BAKER ET UX; LEASE ACREAGE 168 AC±; 74 AC±; 21.87 AC±; 85.31 AC±;
 ANN ANDERSON ET AL; JACKIE O. BILES ET AL; VIRGINIA C. CONNERS; JAMES E. RAINES ET AL; EVELYN HAYHURST 160 AC±; 63.18 AC±; 100.75 AC±; 300 AC±; 9.65 AC±
 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 6,600' TVD 17,200' 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

05/24/2017



Antero Resources Corporation

Appalachian Basin
 Raines Unit 1H
 Ritchie County

Received
 Office of Oil & Gas
 JAN 17 2017

Quadrangle: Ellenboro
 Watershed: North Fork Hughes River
 District: Clay
 Date: 3-16-2016

03/24/2017

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