

LATITUDE 39°12'30"

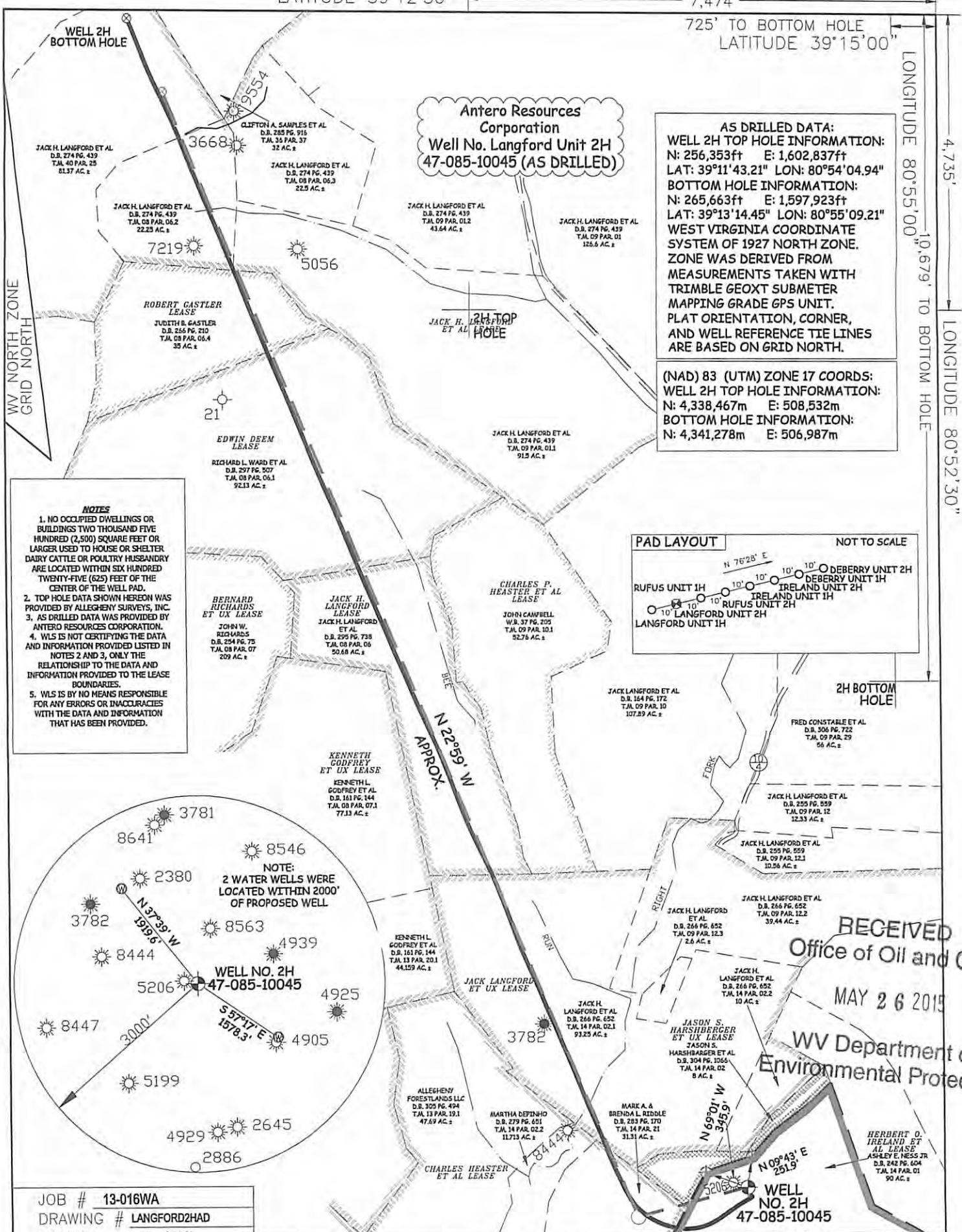
7,474'

725' TO BOTTOM HOLE
LATITUDE 39°15'00"

LONGITUDE 80°55'00"

4,735'

LONGITUDE 80°52'30"

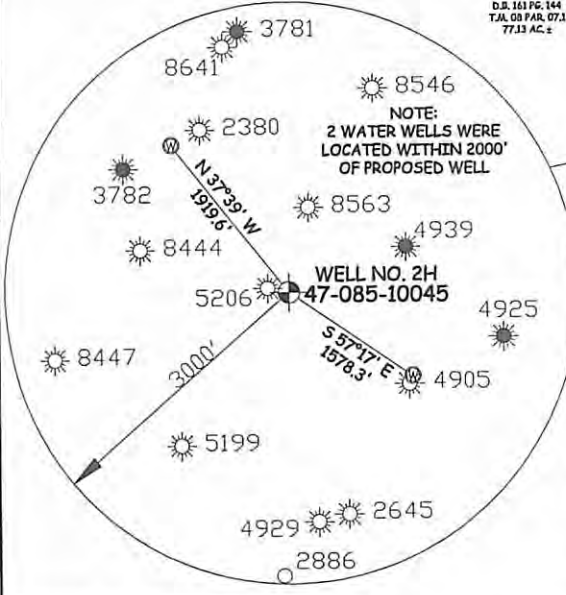
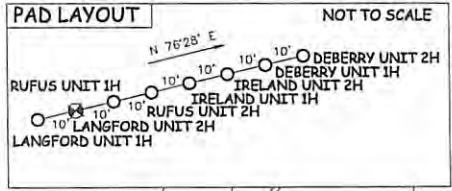


AS DRILLED DATA:
WELL 2H TOP HOLE INFORMATION:
 N: 256,353ft E: 1,602,837ft
BOTTOM HOLE INFORMATION:
 N: 265,663ft E: 1,597,923ft
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 2H TOP HOLE INFORMATION:
 N: 4,338,467m E: 508,532m
BOTTOM HOLE INFORMATION:
 N: 4,341,278m E: 506,987m

NOTES

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 ALLEGHENY SURVEYS, INC.
3. AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
4. 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.
5. WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.



RECEIVED
 Office of Oil and Gas
 MAY 26 2015
 WV Department of
 Environmental Protection

JOB # 13-016WA
 DRAWING # LANGFORD2HAD
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS



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 +/-
 - - - Existing Fence
 - - - Found monument, as noted
 - - - Proposed Well Path
 - - - As Drilled Well Path

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 1,080' ORIGINAL - 1,076' AS DRILLED WATERSHED SOUTH FORK HUGHES RIVER
 QUADRANGLE PULLMAN 7.5' DISTRICT UNION COUNTY RITCHIE

SURFACE OWNER ASHLEY E. NESS, JR. ACREAGE 90 ACRES +/-
 OIL & GAS ROYALTY OWNER HERBERT O. IRELAND ET AL; CHARLES HEASTER ET AL; LEASE ACREAGE 90 ACRES +/-; 234.49 ACRES +/-
 JACK LANGFORD ET UX; JACK H. LANGFORD; EDWIN DEEM; ROBERT GASTLER; JACK H. LANGFORD ET AL 145.28 ACRES +/-; 50.68 ACRES +/-; 92.13 ACRES +/-; 31.26 ACRES +/-; 448.5 ACRES +/-

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 6,456' TVD 17,436' 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

DATE 03/30/15 OPERATOR'S WELL# LANGFORD UNIT #2H
 API WELL # 47 - 085 - 10045
 STATE COUNTY PERMIT 06/05/2015