

LATITUDE 39°40'00"

4,010'

11,272' TO BOTTOM HOLE

LATITUDE 39°40'00"

LONGITUDE 80°30'00"

7,144'

11,170' TO BOTTOM HOLE

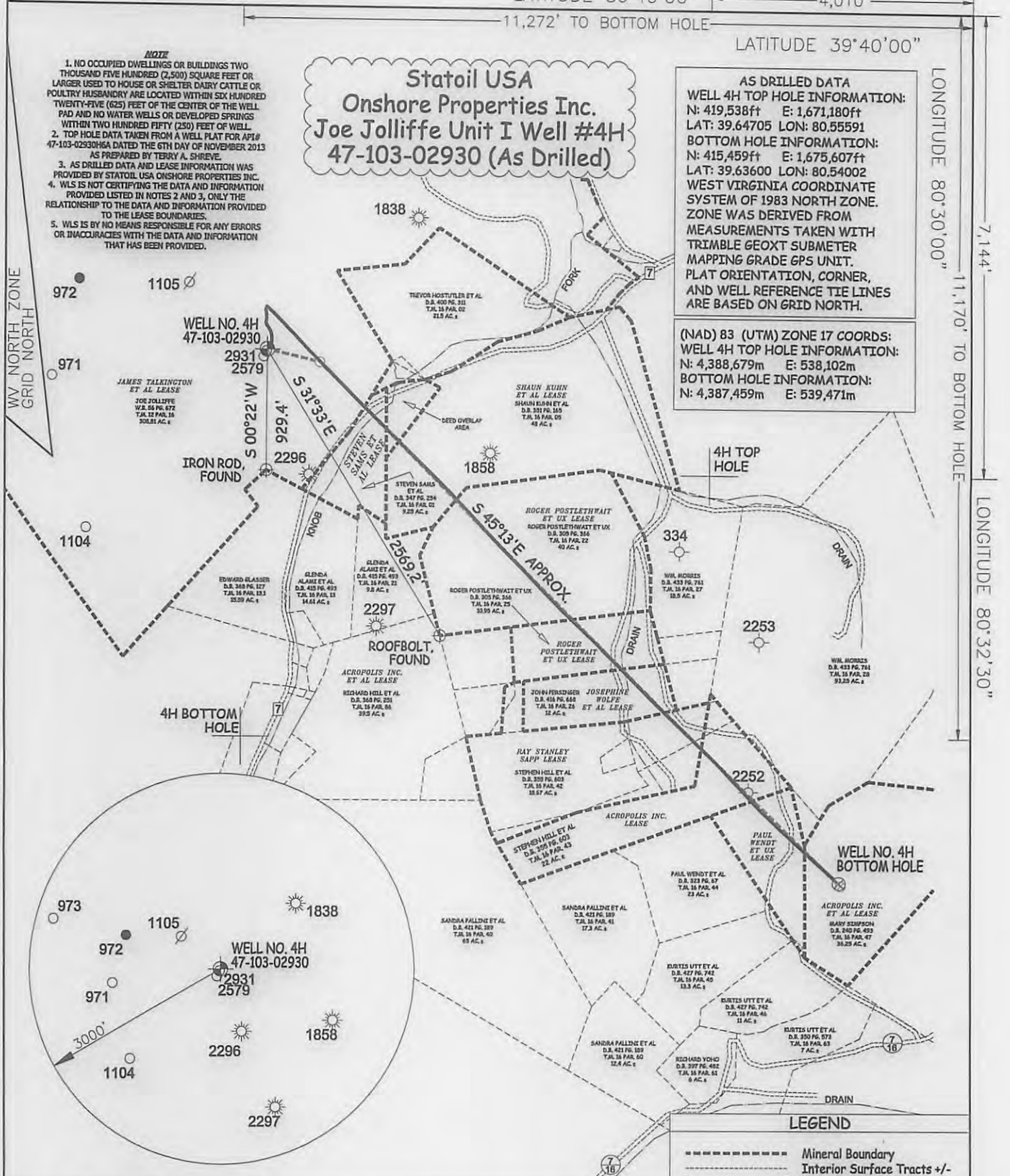
LONGITUDE 80°32'30"

- NOTE**
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 AND NO WATER WELLS OR DEVELOPED SPRINGS WITHIN TWO HUNDRED FIFTY (250) FEET OF WELL.
  2. TOP HOLE DATA TAKEN FROM A WELL PLAT FOR API# 47-103-02930H6A DATED THE 6TH DAY OF NOVEMBER 2013 AS PREPARED BY TERRY A. SHREVE.
  3. AS DRILLED DATA AND LEASE INFORMATION WAS PROVIDED BY STATOIL USA ONSHORE PROPERTIES INC.
  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.

**Statoil USA  
Onshore Properties Inc.  
Joe Jolliffe Unit I Well #4H  
47-103-02930 (As Drilled)**

**AS DRILLED DATA**  
**WELL 4H TOP HOLE INFORMATION:**  
 N: 419,538ft E: 1,671,180ft  
 LAT: 39.64705 LON: 80.55591  
**BOTTOM HOLE INFORMATION:**  
 N: 415,459ft E: 1,675,607ft  
 LAT: 39.63600 LON: 80.54002  
 WEST VIRGINIA COORDINATE SYSTEM OF 1983 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 4H TOP HOLE INFORMATION:**  
 N: 4,388,679m E: 538,102m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,387,459m E: 539,471m



**LEGEND**

- Mineral Boundary
- - - - - Interior Surface Tracts +/-
- As-Drilled Well Path
- ⊗ Proposed Well Path
- ⊙ Landing Point
- ⊕ Bottom Hole
- ⊗ Found monument, as noted

JOB # 15-007WS  
 DRAWING # JOEJOLLIFFE4HAD  
 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  
 P.O. BOX 17  
 PENNSBORO, WV 26415

DATE 03/24/15  
 OPERATOR'S WELL# JOE JOLLIFFE UNIT I WELL #4H  
 API WELL # 47 - 103 - 02930  
 STATE COUNTY PERMIT

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 1,336' WATERSHED WEST VIRGINIA FORK FISH CREEK  
 QUADRANGLE LITTLETON 7.5' DISTRICT CENTER COUNTY WETZEL

SURFACE OWNER JOE B. JOLLIFFE ACREAGE 308.81 ACRES +/-  
 OIL & GAS ROYALTY OWNER JAMES TALKINGTON ET AL; ERNEST PHILLIPS ET AL; LEASE ACREAGE 287 ACRES±; 30.16 ACRES±;  
ACROPOLIS INC ET AL; ACROPOLIS INC. ET AL; RICHARD HILL ET AL; RICHARD HILL ET AL; 9.75 ACRES±; 23.4 ACRES±; 5.15 ACRES±; 3 ACRES±  
RAY STANLEY SAPP; ACROPOLIS INC.; ED BROOME INC ET AL; ED BROOME INC. ET AL 19.63 ACRES±; 22 ACRES±; 15.75 ACRES±; 77.1 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 7,513' TVD 13,530' MD

WELL OPERATOR STATOIL USA ONSHORE PROPERTIES INC. DESIGNATED AGENT WILLIAM T. FAHEY  
 ADDRESS 2103 CITYWEST BLVD. SUITE 800 ADDRESS 2116 PENNSYLVANIA AVE.  
 FORM WW-6 HOUSTON, TX 77042 WEIRTON, WV 26062

06/05/2015

COUNTY NAME PERMIT