

HOWDERSHOLT LEASE WELL NO. 209

**BOTTOM HOLE
WELL NO. 209
STATE PLANE COORDINATES
(NORTH ZONE) NAD '27**
N. 247,017
E. 1,896,810

**LAT=(N) 39.177633
LONG=(W) 79.863995**
UTM (NAD83)(METERS)
N. 4,337,115
E. 598,144

**LANDING POINT
WELL NO. 209
STATE PLANE COORDINATES
(NORTH ZONE) NAD '27**
N. 253,236
E. 1,894,036

**LAT=(N) 39.194676
LONG=(W) 79.873872**
UTM (NAD83)(METERS)
N. 4,338,996
E. 597,264

**WELL NO. 209
STATE PLANE COORDINATES
(NORTH ZONE) NAD '27**
N. 254,166
E. 1,893,620

**LAT=(N) 39.197224
LONG=(W) 79.875353**
UTM (NAD83)(METERS)
N. 4,339,283
E. 597,133

NOTES ON SURVEY

- TIES TO WELLS, CORNERS AND REFERENCES ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
- LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 219 PAGE 26, ADJOINING DEED AND WELL PLATS.
- SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF BARBOUR COUNTY IN JULY, 2013.
- WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SURVEY GRADE TIE TO CORS NETWORK).
- NO DWELLING OR AGRICULTURAL BUILDINGS WITHIN 625 FEET OF CENTER OF PAD. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE PAD LIMITS OF DISTURBANCE.
- TAX MAPS IN THIS AREA WERE FOUND TO CONTAIN SIGNIFICANT ERROR. PROPERTY LINES SHOWN HEREON WERE TAKEN FROM DEEDS AND FIELD EVIDENCE.

REFERENCES



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 REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 849 *C. Victor Mayer*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE NOVEMBER 21, 20 13
OPERATORS WELL NO. 209
API WELL NO. 47-001-03323H6A
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 7962P209R2
PROVEN SOURCE OF ELEVATION DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 1000'

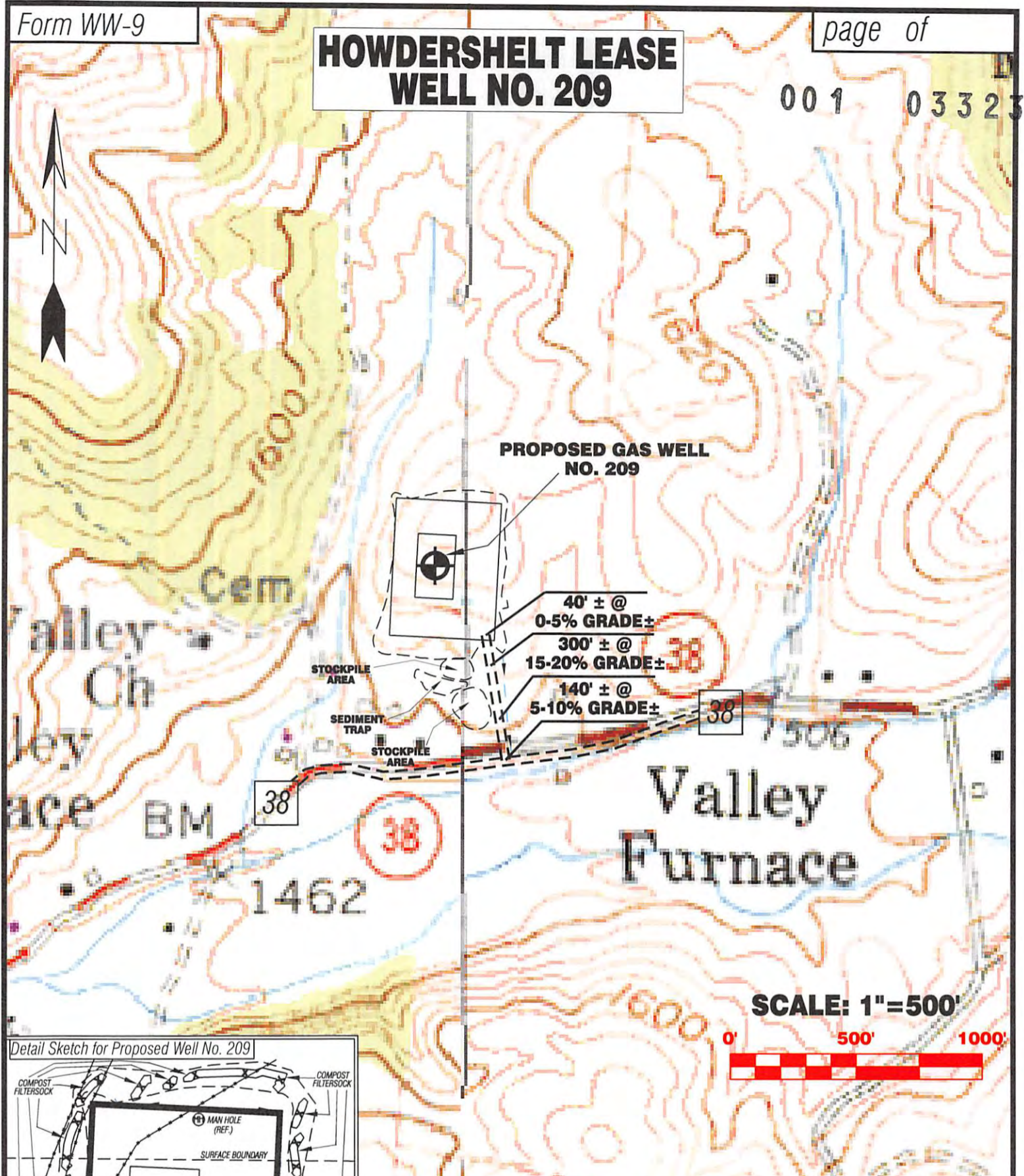
STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

WELL TYPE: OIL GAS INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1,566'(GROUND) 1,558'(PROPOSED) WATERSHED BRUSHY FORK OF TETER CREEK
DISTRICT COVE COUNTY BARBOUR QUADRANGLE NESTORVILLE 7.5'
SURFACE OWNER MELVIN AND RENEE HOWDERSHOLT ACREAGE 158.94±
ROYALTY OWNER MELVIN & RENEE HOWDERSHOLT (158.94 AC.±), PAUL ADAMS ET AL (109 AC.±), ROMMEL FAMILY TRUST (179.02 AC.±)
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD
FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
ESTIMATED DEPTH TVD 7,845' / TMD 15,111'

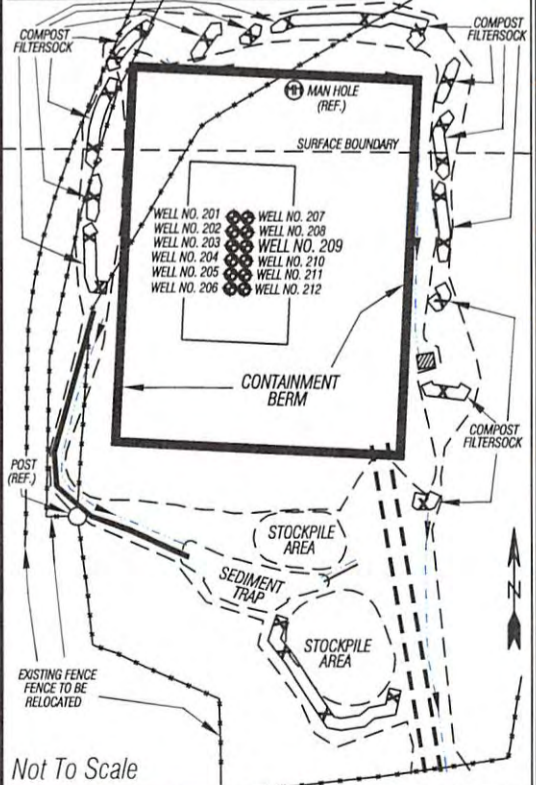
WELL OPERATOR MOUNTAINEER KEYSTONE LLC DESIGNATED AGENT NATHAN SKEEN
ADDRESS 1111 VAN VOORHIS ROAD, SUITE G MORGANTOWN, WV 26505 ADDRESS 1111 VAN VOORHIS ROAD, SUITE G MORGANTOWN, WV 26505 **01/10/2014**

HOWERSHELT LEASE WELL NO. 209

001 03323



Detail Sketch for Proposed Well No. 209



Not To Scale

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.E.P. OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATION. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

SEDIMENT BASINS (TRAPS) AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV D.E.P. OIL AND GAS BMP MANUAL. FIELD CONDITIONS (ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

APPLICATIONS FOR SEPARATE PLC PERMITS ON THE ACCESS ROAD STREAM CROSSINGS HAVE BEEN PREPARED (IF APPLIES).

WV Dept. of Environmental Protection

= EXISTING CULVERT
 = PROPOSED CULVERT 12" MIN. UNLESS OTHERWISE NOTED
 = PROPOSED STREAM CROSSING
 = APPROXIMATE LIMITS OF DISTURBANCE

NESTORVILLE 7.5' QUAD
COLEBANK 7.5' QUAD

TOPO SECTION OF NESTORVILLE 7.5' & COLEBANK 7.5' USGS TOPO QUADRANGLES

01/10/2014

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING



SURVEYORS PROJECT MGMT. **SLS** ENGINEERS ENVIRONMENTAL

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DRAWN BY K.D.W. FILE NO. 7962 DATE 08/22/13 CADD FILE: 7962REC209.dwg