

HOWDERSHOLT LEASE

LATITUDE 39°12'30"

A	MELVIN & RENEE HOWDERSHOLT HWS	1.22 AC. ±	TM 19 PAR. 40.1
B	NEW HOPE VALLEY CHURCH	20,000 SQ. FT	TM 19 PAR. 42
C	NEW HOPE VALLEY CHURCH	0.61 AC. ±	TM 19 PAR. 38.1
E	ERIC HOWDERSHOLT ET AL	2.15 AC. ±	TM 19 PAR. 41.4
F	MELVIN & RENEE HOWDERSHOLT HWS	2.02 AC. ±	TM 19 PAR. 41.1

NOTES ON SURVEY

1. TIES TO WELLS, CORNERS AND REFERENCES ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 219 PAGE 26, ADJOINING DEEDS AND WELL PLATS.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF BARBOUR COUNTY IN JULY, 2013.
4. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SURVEY GRADE TIE TO CORS NETWORK).
5. THIS SECTION OF COUNTY ROUTE 93 IS KNOWN AS PART OF THE OLD MORGANTOWN AND BEVERLY TURNPIKE. A STRIP OF GROUND (POSSIBLY 60 FEET OR MORE IN WIDTH) CLAIMED IN FEE BY WEST VIRGINIA DEPARTMENT OF HIGHWAYS.
6. 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.
7. TAX MAPS IN THIS AREA WERE FOUND TO CONTAIN SIGNIFICANT ERROR. PROPERTY LINES SHOWN HEREON WERE TAKEN FROM DEEDS AND FIELD EVIDENCE.
8. DUE TO POOR DEED DESCRIPTION AND ERRONEOUS TAX MAPS THE ACTUAL LOCATION OF 1.56 AC. TRACT COULD NOT BE DETERMINED. HOWEVER FOR INFORMATIONAL PURPOSES SHOWN HEREON PER TAX MAP 14, WHICH MAY OR MAY NOT BE CORRECT.

LANDING POINT
WELL NO. 203
STATE PLANE COORDINATES
(NORTH ZONE) NAD '27

N. 254,966
E. 1,893,465

LAT=(N) 39.199421
LONG=(W) 79.875913

UTM (NAD83)(METERS)
N. 4,339,520
E. 597,082

WELL NO. 203
STATE PLANE COORDINATES
(NORTH ZONE) NAD '27

N. 254,167
E. 1,893,600

LAT=(N) 39.197227
LONG=(W) 79.875424

UTM (NAD83)(METERS)
N. 4,339,277
E. 597,127

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 Moyers*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE NOVEMBER 20, 20 13
OPERATORS WELL NO. 203
API WELL NO. 47-001-03317H6A
STATE 47 COUNTY 001 PERMIT 03317H6A

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 7962P203R2
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 LIQUID 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 (1.22 AC.±, 158.94 AC.± & 71.78 AC.±), IRA & CAROL HOVATTE (272.39 AC.± & 79 AC.±), ADAM & LINDA ROHRIG JR. ET AL (83 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

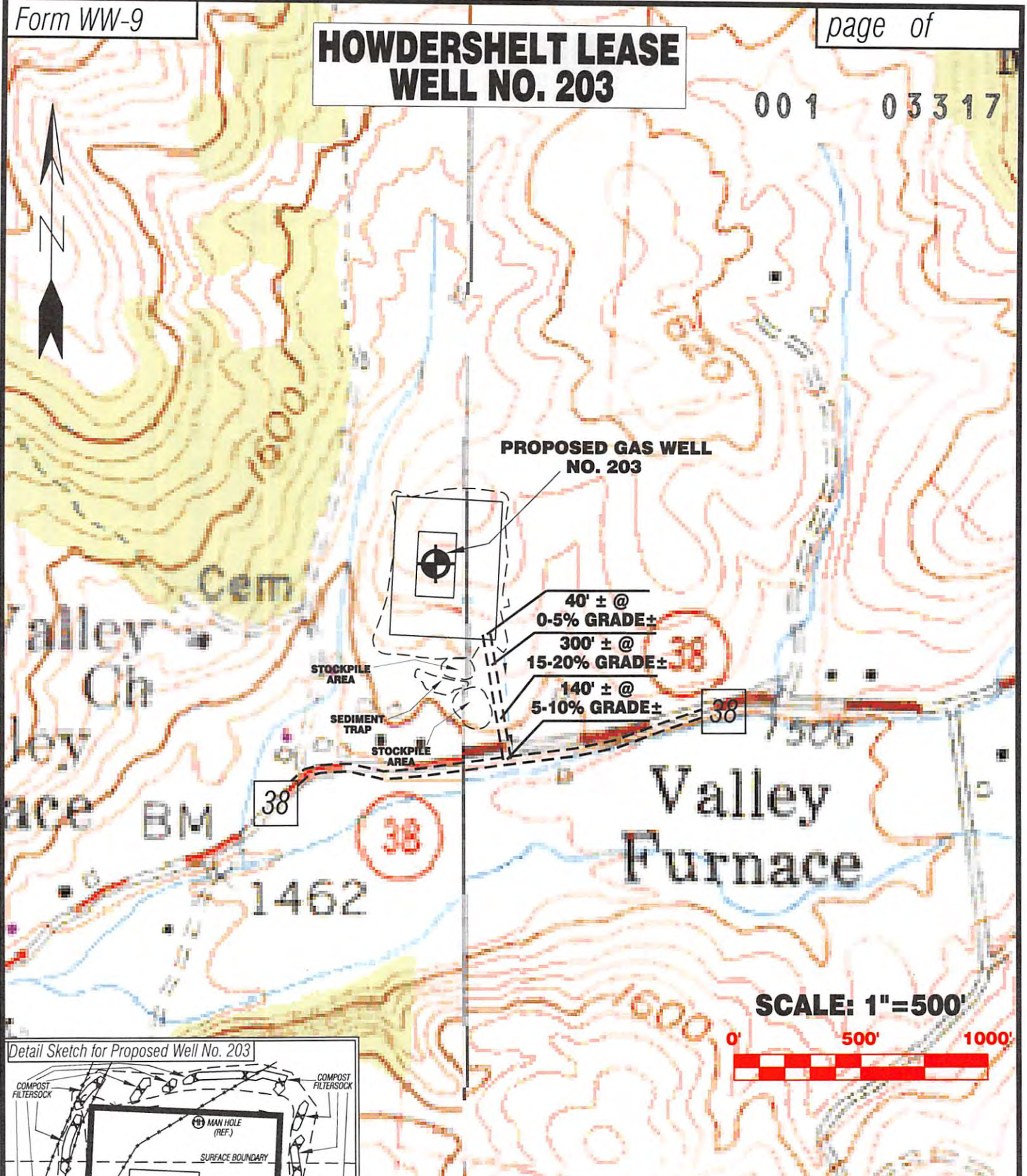
PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
ESTIMATED DEPTH TVD 7,855' / TMD 14,890'

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

01/10/2014

HOWDERSHELT LEASE WELL NO. 203

001 03317



**PROPOSED GAS WELL
NO. 203**

40' ± @
0-5% GRADE±

300' ± @

15-20% GRADE±

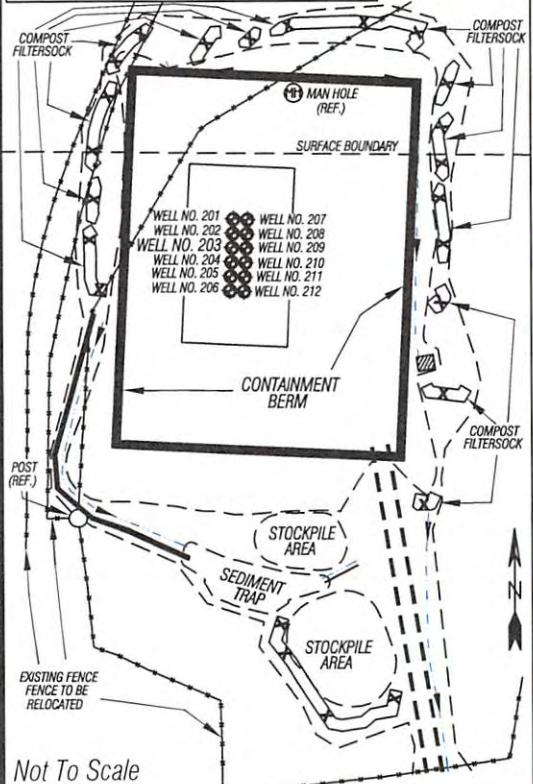
140' ± @

5-10% GRADE±

SCALE: 1"=500'



Detail Sketch for Proposed Well No. 203



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).

- SEP 16 2013
- Office of Oil and Gas
- PROPOSED CULVERT 12" MIN. UNLESS OTHERWISE NOTED
- PROPOSED STREAM CROSSING
- APPROXIMATE LIMITS OF DISTURBANCE

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING

SURVEYORS PROJECT MGMT. **SLS** ENGINEERS ENVIRONMENTAL

226 West Main St. P.O. Box 150 Glenville, WV 26351 (304) 462-5634

56065 Dilles Bottom Road Shady Side, OH 43947 (740) 671-9911

HONESTY, INTEGRITY, QUALITY

DRAWN BY: K.D.W. FILE NO.: 7962 DATE: 08/22/13 CADD FILE: 7962REC203.dwg

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

01/10/2014