

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
D	OLD DUTCH CHURCH	2 AC. ±	TM 19 PAR. 37
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
G	EDISON & CAROL SHAW	4 AC. ±	TM 19 PAR. 43.1
H	AVIS A. OWENS POLING	100 SQ. FT. ±	TM 18 PAR. 9
I	AVIS A. OWENS POLING	6.102 AC. ±	TM 18 PAR. 10
J	TOMMY & DOTTIE FREEMAN LS# 00002145	92 AC. ±	TM 19 PAR. 39.1
K	PAUL & ERICA HALLER HWS	10 AC. ±	TM 14 PAR. 52
L	BILLIE J. POLING ET AL	3 AC. ±	TM 14 PAR. 51.2
M	BILLIE J. POLING ET AL	3.02 AC. ±	TM 14 PAR. 57.1
N	LAWRENCE G. KNOTTS	7.98 AC. ±	TM 14 PAR. 51
O	PATRICIA RICONTELLI, LLC	84.70 AC. ±	TM 14 PAR. 40
P	EDSIL NESTOR ET AL	106 AC. ±	TM 14 PAR. 32
Q	ROBERT PITZER ET UX LS# 0000089	7.27 AC. ±	TM 14 PAR. 37
R	ELIZABETH BOLYARD ET AL LS# 00000323 & LS# 00000324	1.56 AC. ±	TM 14 PAR. 38.4
S	ELIZABETH BOLYARD ET AL LS# 00000323 & LS# 00000324	0.6 AC. ±	TM 14 PAR. 53.1

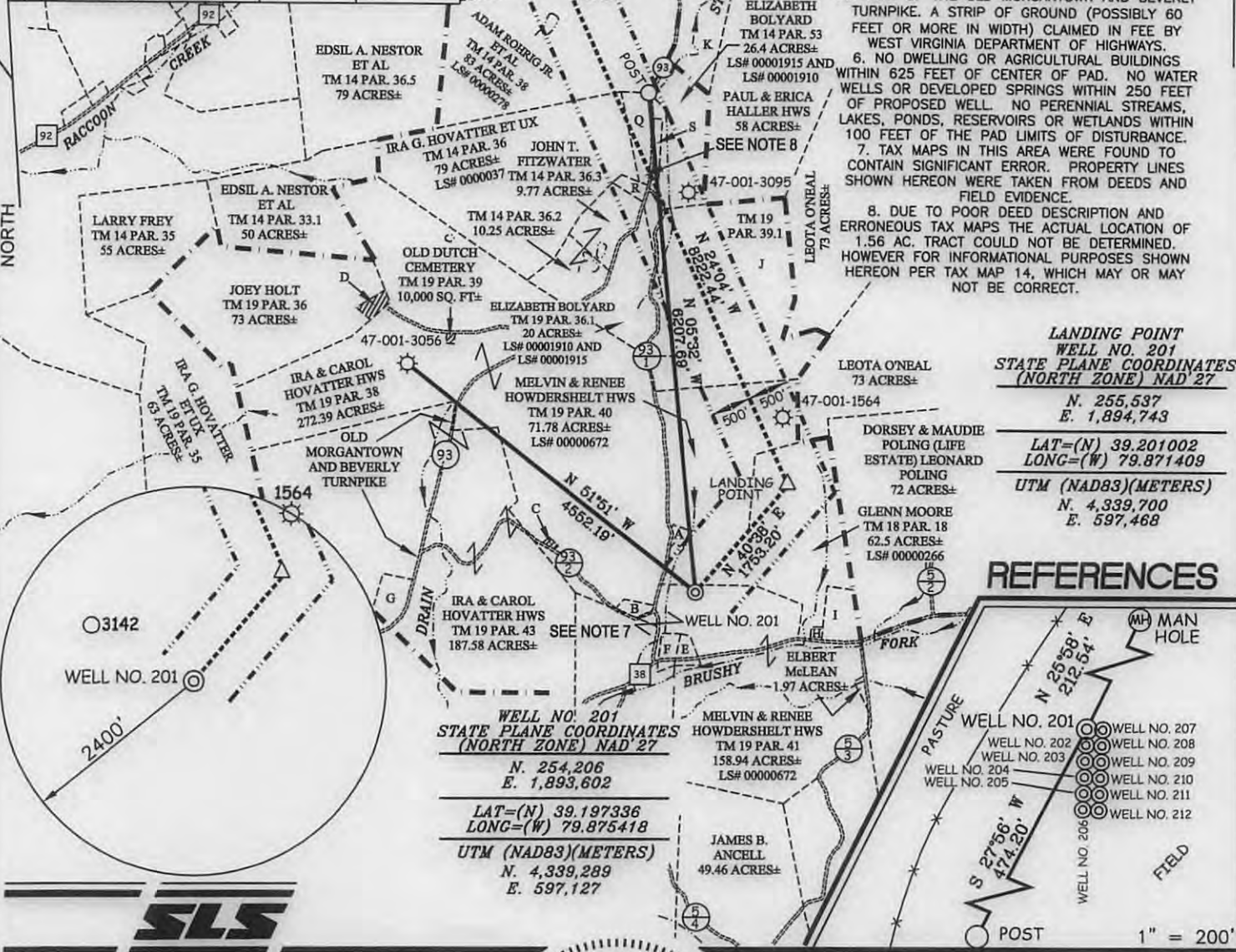
**BOTTOM HOLE
WELL NO. 201**
STATE PLANE COORDINATES
(NORTH ZONE) NAD 27
N. 263,045
E. 1,891,391

LATITUDE 39°12'30"

HOWDERSHOLT LEASE WELL NO. 201

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. 201**
STATE PLANE COORDINATES
(NORTH ZONE) NAD 27
N. 255,537
E. 1,894,743
LAT=(N) 39.201002
LONG=(W) 79.871409
UTM (NAD83)(METERS)
N. 4,339,700
E. 597,468

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 DECEMBER 04, 20 13
OPERATORS WELL NO. 201
API WELL NO. 47-001-03315H6A
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 7962P201R3
PROVEN SOURCE OF ELEVATION DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

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 1,569'(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.±), GLENN MOORE (62.50 AC.±), TOMMY AND DOTTIE FREEMAN (92 AC.±), ELIZABETH BOLYARD ET AL (26.40 AC.±, 1.56 AC.± & 0.6 AC.±), ROBERT & BERNICE PITZER (7.27 AC.±), ADAM ROHRIG ET UX (83 AC.±), JEAN KINES (103 AC.±), IRA G. HOVATTER (79 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 17,170'

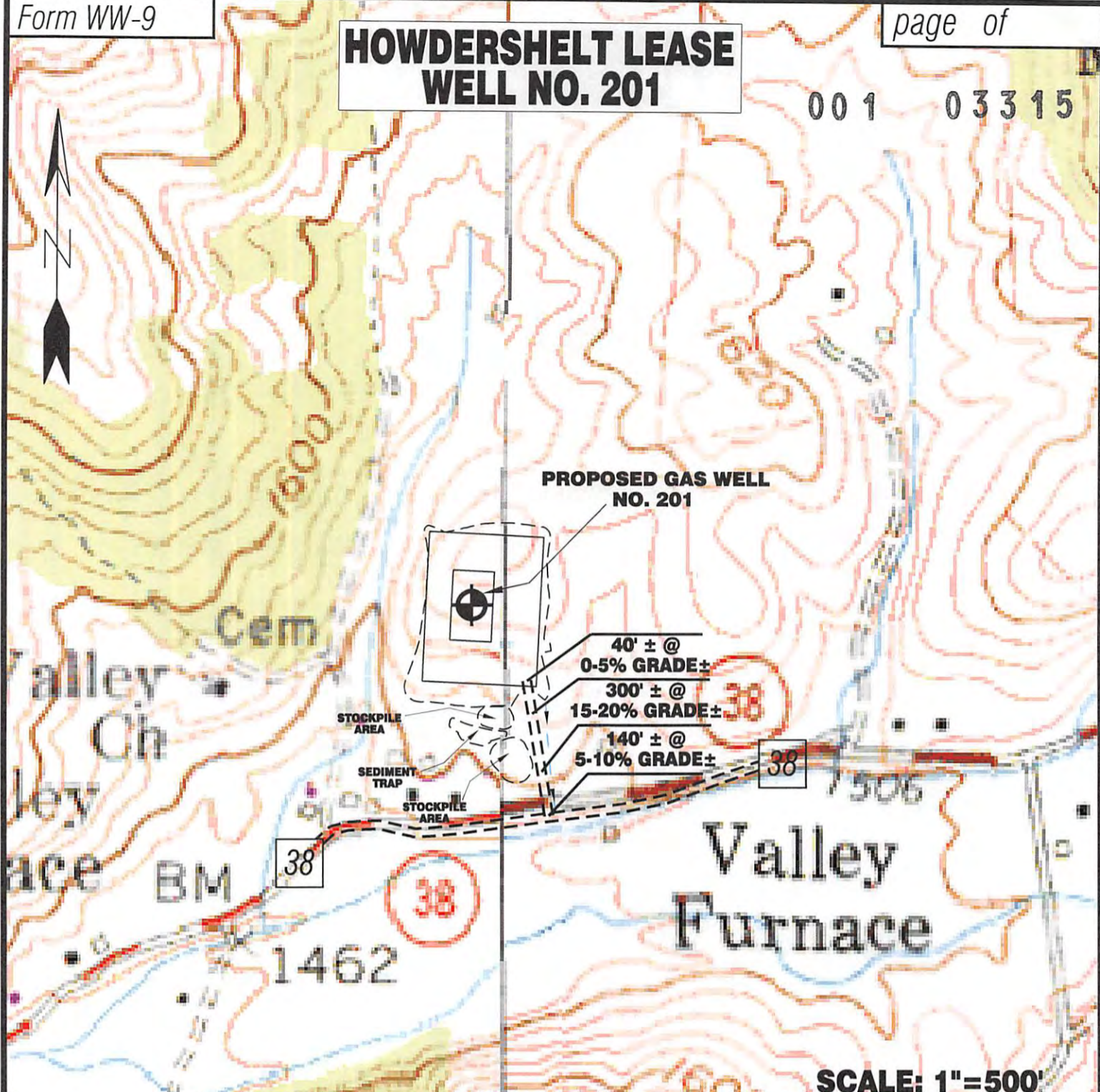
WELL OPERATOR MOUNTAINEER KEYSTONE LLC DESIGNATED AGENT NATHAN SKEEN
ADDRESS 1111 VAN VOORHIS ROAD, SUITE G MORGANTOWN, WV 26505 ADDRESS 1111 VAN VOORHIS ROAD, SUITE G MORGANTOWN, WV 26505 **01/10/2014**

4.005' LONGITUDE 79°23'30"

COUNTY NAME PERMIT

HOWERSHELT LEASE WELL NO. 201

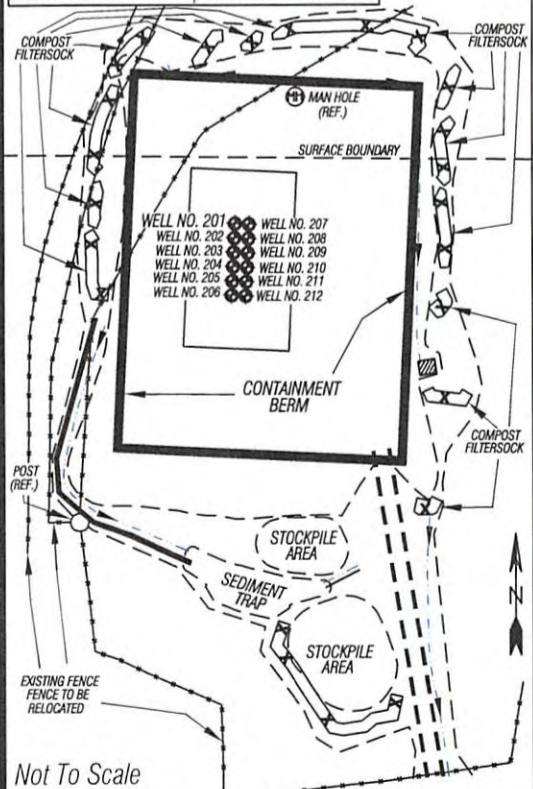
001 03315



SCALE: 1"=500'



Detail Sketch for Proposed Well No. 201



**NESTORVILLE 7.5' QUAD
COLEBANK 7.5' QUAD**

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).

- = EXISTING CULVERT
- = 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: 7962REC201.dwg

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

01/10/2014