

| SURFACE OWNERS | | |
|----------------|-------------------------------------|-----------------|
| A | MELVIN AND RENEE HOWDERSHELT | TM 19 PAR. 41 |
| B | MELVIN AND RENEE HOWDERSHELT | TM 19 PAR. 40 |
| C | IRA G. AND CAROL HOVATTER | TM 19 PAR. 38 |
| D | NEW HOPE VALLEY CHURCH | TM 19 PAR. 42 |
| E | NEW HOPE VALLEY U.M. CHURCH | TM 19 PAR. 38.1 |
| F | CHURCH LOT | |
| G | IRA G. AND CAROL HOVATTER | TM 19 PAR. 43 |
| H | BETTY L. KELLEY ET AL | TM 19 PAR. 47 |
| I | RONALD AUVIL | TM 19 PAR. 50 |
| J | ELWOOD AND PENNY CANFIELD | TM 19 PAR. 41.5 |
| K | ELWOOD CANFIELD | TM 19 PAR. 41.2 |
| L | ERIC AND LISA EVIX | TM 19 PAR. 41.3 |
| M | ERIC HOWDERSHELT | TM 19 PAR. 41.4 |
| N | MELVIN AND RENEE HOWDERSHELT | TM 19 PAR. 41.1 |
| O | LORETHA M. ANNON LEGACY TRUST ET AL | TM 19 PAR. 51 |
| P | GLEN MOORE ET UX | TM 18 PAR. 08 |
| Q | GLEN MOORE ET UX | TM 15 PAR. 13 |
| R | DORSEY AND MAUDIE POLING ET AL | TM 18 PAR. 07 |
| S | THOMAS W. OWENS | TM 18 PAR. 10 |
| T | THOMAS W. OWENS | TM 18 PAR. 09 |
| U | ELBERT McLEAN ET UX | TM 18 PAR. 39 |
| V | MARK AND ELOISE HOLLEN | TM 18 PAR. 30 |
| W | THOMAS AND RAMBLE POLING | TM 18 PAR. 32 |
| X | PAUL AND JOHN ADAMS | TM 18 PAR. 31 |
| Y | JAMES B. ANCELL | TM 28 PAR. 01 |
| Z | JAMES B. ANCELL | TM 28 PAR. 02 |
| AA | ROMMELL FAMILY TRUST | TM 28 PAR. 05 |
| BB | ROMMELL FAMILY TRUST | TM 28 PAR. 05.1 |
| CC | KEVIN KLINGENSMITH ET AL | TM 28 PAR. 06 |
| DD | JOHN SHAFFER ET UX | TM 26 PAR. 03.1 |
| EE | HARRY T. SHAFFER ET AL | TM 28 PAR. 03 |
| FF | GERTRUDE HALLER | TM 28 PAR. 04 |
| GG | MARY MOCCIO | TM 04 PAR. 08 |
| HH | MARY MOCCIO | TM 04 PAR. 05 |
| II | BRIAN PURKEY ET AL | TM 04 PAR. 01 |
| JJ | JERRY D. HALLER ET UX | TM 28 PAR. 4.1 |

NOTES ON SURVEY

1. NO WATER WELLS OR DEVELOPED SPRINGS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS > 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD. NO RAILROADS WERE FOUND WITHIN THE SCOPE OF THIS PLAT.
2. TAX MAPS IN THIS AREA WERE FOUND TO CONTAIN SIGNIFICANT ERROR. PROPERTY LINES SHOWN HEREON WERE TAKEN FROM DEEDS AND FIELD EVIDENCE.
3. TIES TO WELLS, CORNERS AND REFERENCES ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD 27.
4. PARCEL 13 ON TAX MAP 15 IS ACTUALLY LOCATED ON TAX MAP 18 NORTH OF PARCEL 10.

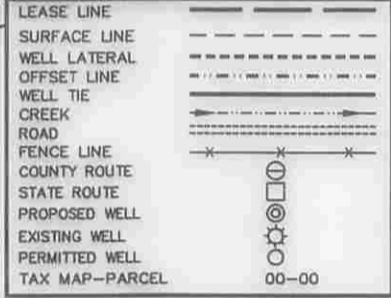
HOWDERSHELT LEASE WELL NO. 209

(NAD'83 UTM (METERS) ZONE 17 NORTH)

TOP HOLE
N. 4,339,234 E. 597,129

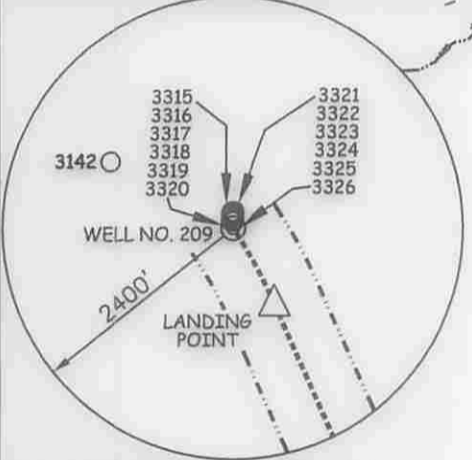
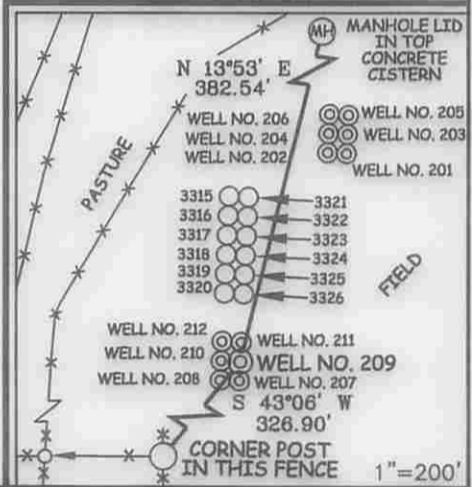
LANDING POINT
N. 4,338,996 E. 597,264

BOTTOM HOLE
N. 4,337,115 E. 598,141



| LATERAL ROYALTY OWNERS | | |
|------------------------|--------------------------|------------|
| 1 | MELVIN HOWDERSHELT ET UX | 158.94 AC± |
| | PAUL ADAMS | |
| 2 | JOHN ADAMS ET UX | 109 AC± |
| 3 | ROMMELL FAMILY TRUST | 111 AC± |

REFERENCES



Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING, INC.

SLS SURVEYORS ENGINEERS ENVIRONMENTAL PROJECT MGMT.

(304) 482-6634 WWW.SLSURVEYS.COM

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 JULY 14, 20 14

REVISED _____, 20 _____

OPERATORS WELL NO. 209

API WELL NO. 47-001-03323 MOD

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 7962P209R5

HORIZONTAL & VERTICAL CONTROL DETERMINED BY 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 1,566' (GROUND) 1,557' (PROPOSED) WATERSHED BRUSHY FORK OF TETER CREEK

DISTRICT COVE COUNTY BARBOUR QUADRANGLE NESTORVILLE 7.5'

SURFACE OWNER MELVIN AND RENEE HOWDERSHELT ACREAGE 158.94±

ROYALTY OWNER MELVIN AND RENEE HOWDERSHELT ACREAGE 158.94±

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 15,057'

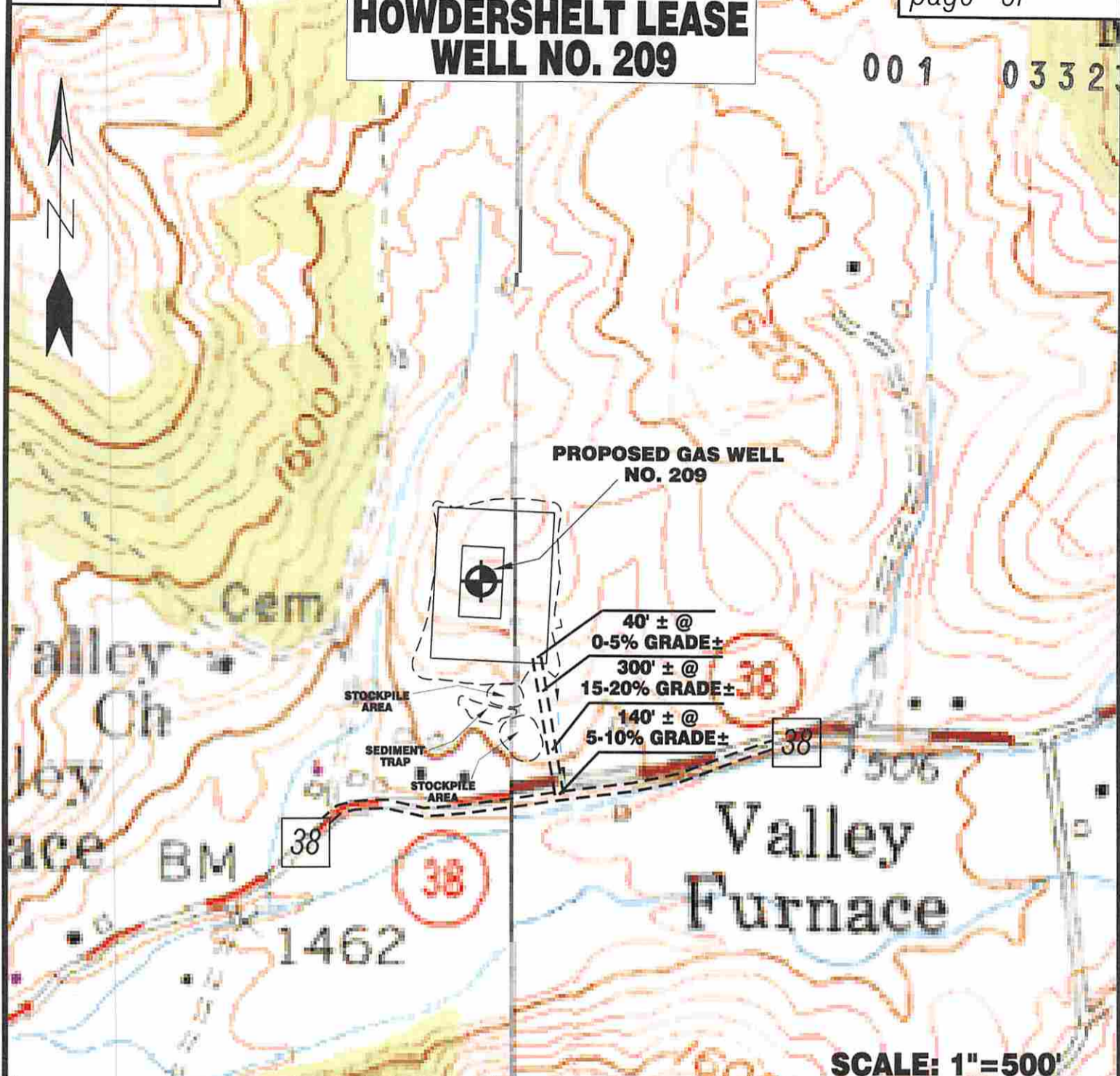
WELL OPERATOR MOUNTAINEER KEYSTONE LLC DESIGNATED AGENT NATHAN SKEEN

ADDRESS 1111 VAN VOORHIS ROAD, SUITE G MORGANTOWN, WV 26505 ADDRESS 1111 VAN VOORHIS ROAD, SUITE G MORGANTOWN, WV 26505

01/02/2015

HOWDERSHILT LEASE WELL NO. 209

001 03323



**PROPOSED GAS WELL
NO. 209**

**40' ± @
0-5% GRADE ±**

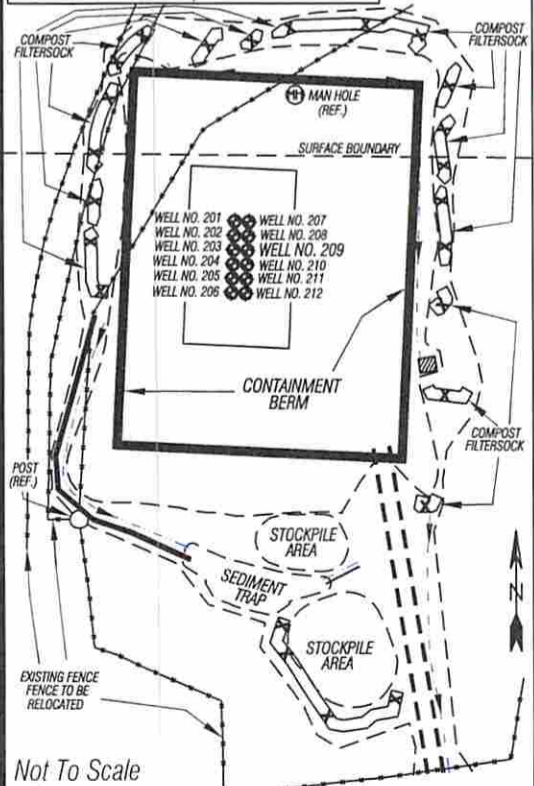
**300' ± @
15-20% GRADE ±**

**140' ± @
5-10% GRADE ±**

SCALE: 1"=500'



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

01/02/2015

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING



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(740) 671-9911

HONESTY. INTEGRITY. QUALITY

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