



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

November 08, 2012

WELL WORK PERMIT

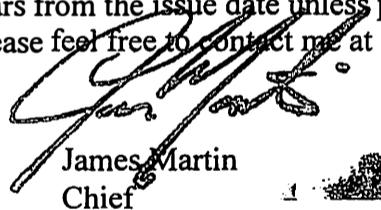
Horizontal 6A Well

This permit, API Well Number: 47-103276, issued to MOUNTAINEER KEYSTONE, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: HARSHBERGER 205
Farm Name: HARSHBERGER, BEATRICE

API Well Number: 47-103276

Permit Type: Horizontal 6A Well

Date Issued: 11/08/2012

Promoting a healthy environment.

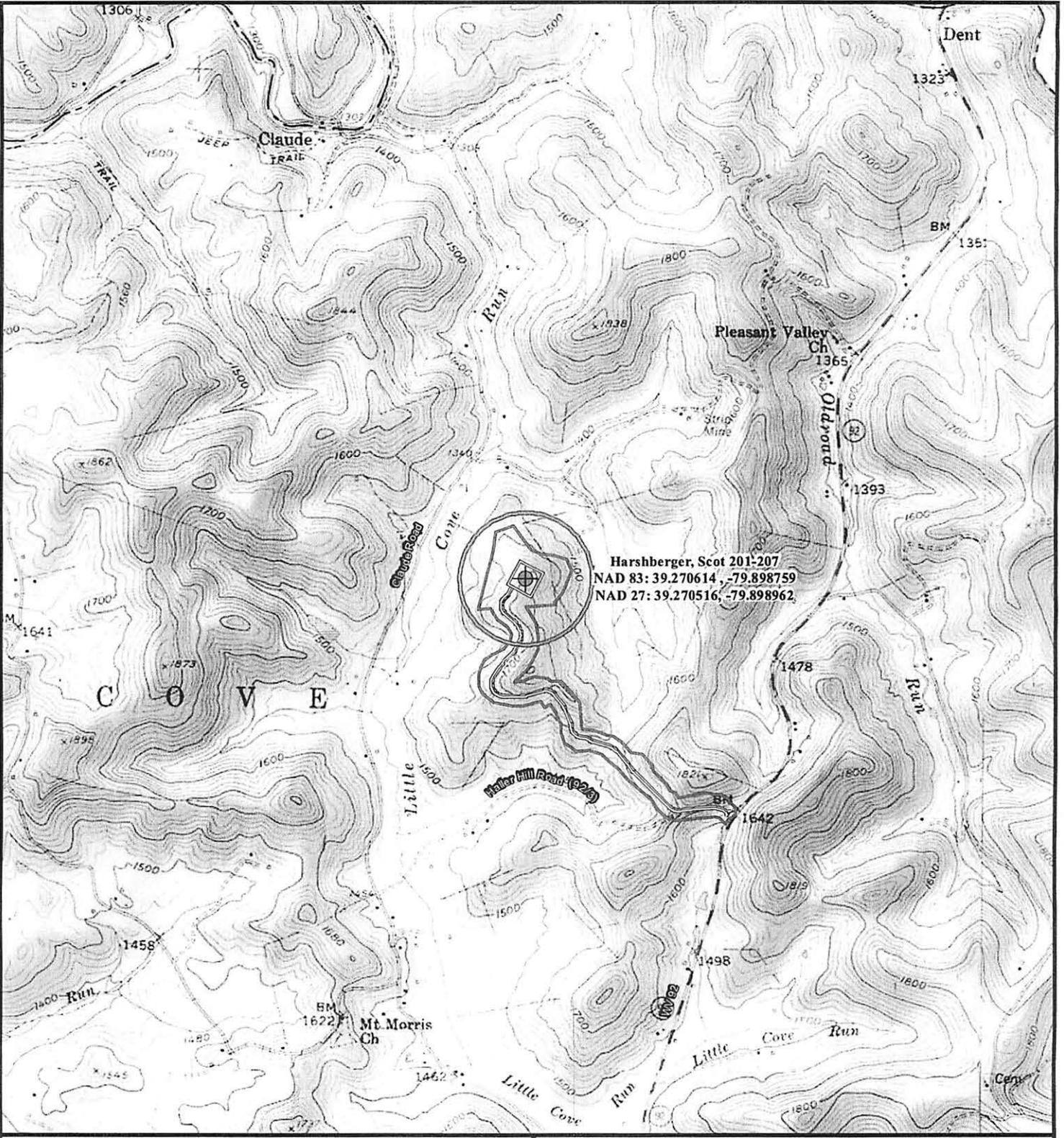
PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the fill material shall be within plus or minus 2% of the optimum moisture content as determined by the standard proctor density test. Each lift must meet 95 % compaction of the optimum density based on results from the standard proctor density test of the actual soils used in specific engineered fill sites. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
3. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
4. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
5. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.

1-03276



Harshberger, Scot 201-207
 NAD 83: 39.270614, -79.898759
 NAD 27: 39.270516, -79.898962

 Proposed Well Pad
 Well Pad & Access Road
 Area of Investigation (78 Acres)
 1,000 Foot Buffer

RECEIVED
Office of Oil and Gas
 AUG 13 2012
WV Department of Environmental Protection

Cove District, Barbour County, WV
 Thorton, WV USGS 7.5' Topographic Map

Mountaineer Keystone
 Harshberger, Scot 201-207
Figure 3: Water Purveyor Topographic Map
 Project No: 092942000



0 2,000
Feet
1 inch = 2,000 feet

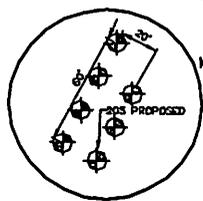



GRID NORTH
NAD 83

| TRACT | LESSOR | PARCEL NUMBER |
|-------|---|---------------|
| 1 | RIDDLE O. S. & MARGARET Y | 422006467 |
| 2 | MCK ROBERT D & LISBETH A | 422008521 |
| 3 | NESTOR NATHANIEL BURT JR & ANNA-ELIZABETH | 422008645 |
| 4 | NESTOR NATHANIEL BURT JR & ANNA-ELIZABETH | 422008518 |
| 5 | NESTOR NATHANIEL BURT JR & ANNA-ELIZABETH | 422008644 |
| 6 | JAKERS GARY G & JOYCE K | 422008514 |
| 7 | SHELDON TIMOTHY & JANET | 422008516 |
| 8 | PITZER GEORGE D, LIFE EST | 422008531 |
| 9 | LINGER FRANK E JR | 422008512 |
| 10 | LINGER FRANK E JR | 422008510 |
| 11 | BOYCE LAWRENCE JR | 422008843 |
| 12 | HARKER ROSALEA | 422008489 |
| 13 | BOYCE LAWRENCE JR | 422008637 |
| 14 | BOYCE LAWRENCE JR | 422008840 |
| 15 | BOYCE LAWRENCE JR | 422008515 |
| 16 | HARKER ROSALEA | 422008491 |
| 17 | MOWEN, BEN & BERGDORF, ZACKARY | 422008477 |
| 18 | HARKER ROSALEA | 422008479 |
| 19 | HARSHBERGER BEATRICE I /F | 422008992 |
| 20 | KEENER DAVID A & MARY CRAIG | 422008459 |
| 21 | SMITH ROY C JR & MARY | 422007480 |
| 22 | WOLFE CATHARINE | 422008444 |
| 23 | WOLFE JOHN MOORE & MARGARET J | 422008411 |
| 24 | PITZER JAMES | 422008391 |
| 25 | MACKAY MARGARET LIFE EST & JOHN M WOLFE | 422008402 |
| 26 | WOLFE JOHN M & VICKIE C | 422005906 |
| 27 | WOLFE HAZEL N | 422008474 |
| 28 | MACKAY MARGARET J LIFE EST | 422008375 |
| 29 | MACKAY MARGARET LIFE EST & JOHN M WOLFE | 422008410 |

- GENERAL NOTES:
1. THE BOUNDARY LINES SHOWN HEREON ARE BASED ON RECORD DEED, PLATS, AND TAX MAPS BEST FIT TO FOUND FIELD EVIDENCE AND AERIAL PHOTOS.
 2. THIS PLAT DOES NOT REPRESENT AN ACTUAL BOUNDARY SURVEY OF THE INDIVIDUAL PARCELS.

DETAIL
N.T.S

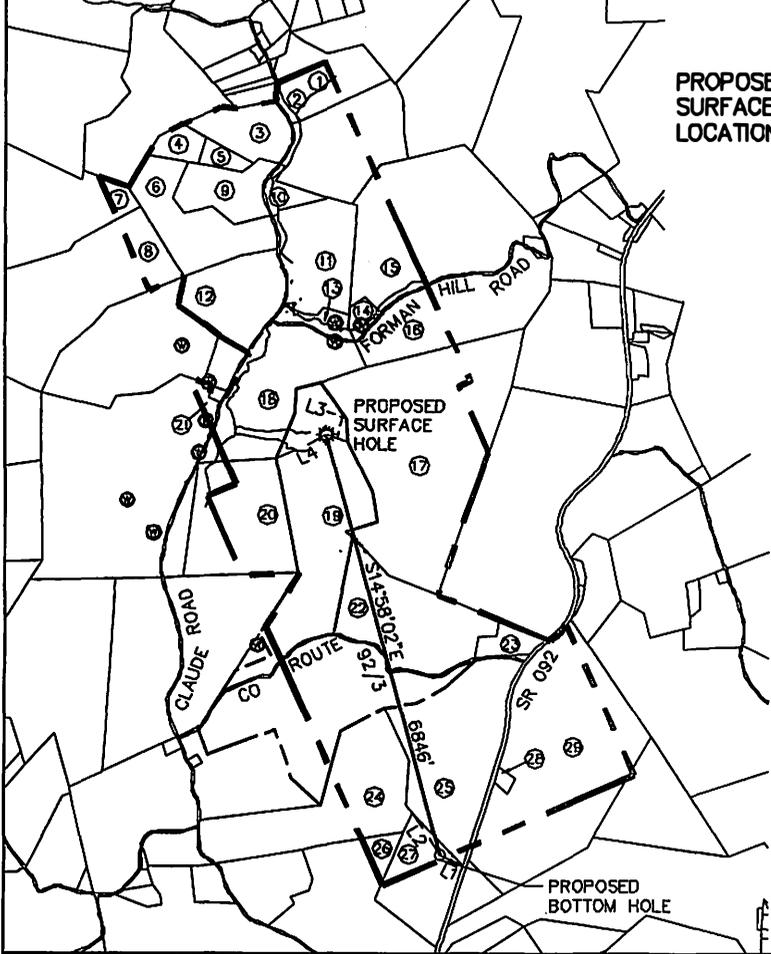


| LINE | BEARING | LENGTH |
|------|-------------|--------|
| L1 | S63°30'00"E | 400' |
| L2 | N32°45'17"W | 785' |
| L3 | S71°38'40"E | 355' |
| L4 | S62°32'34"W | 854' |

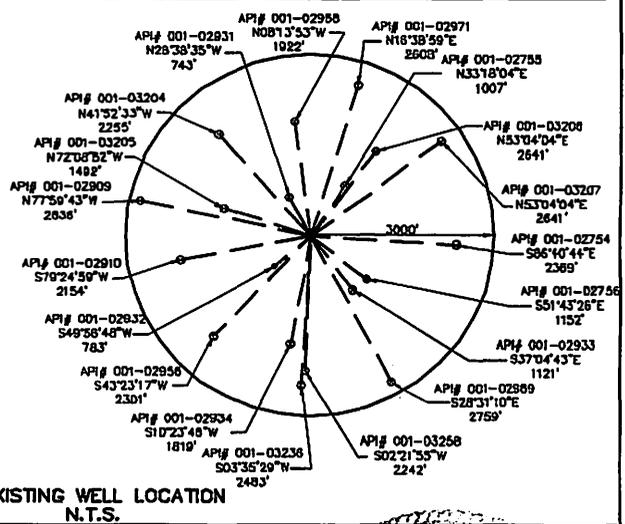
LEGEND

- PROPOSED GAS WELL
- PROPOSED BOTTOM HOLE
- PROPOSED BORE
- PROPERTY CORNER TIE LINE
- OIL & GAS LEASE BOUNDARY
- STREAM
- WATER WELL

PROPOSED SURFACE LOCATION +



| SURFACE POINT | BOTTOM HOLE |
|--|--|
| LAT: 39.270708° (NAD 83) LONG: 79.898856° (NAD 83) N: 280963.87 (NAD 83) E: 1855560.82 (NAD 83) | LAT: 39.252570° (NAD 83) LONG: 79.892507° (NAD 83) N: 274349.63 (NAD 83) E: 1857348.00 (NAD 83) |
| LAT: 39.270810° (NAD 27) LONG: 79.899059° (NAD 27) N: 280922.76 (NAD 27) E: 1887020.10 (NAD 27) | LAT: 39.252471° (NAD 27) LONG: 79.892711° (NAD 27) N: 274308.31 (NAD 27) E: 1888788.45 (NAD 27) |
| N: 4347395.84m (UTM NAD 83) E: 594988.85m (UTM NAD 83) | N: 4345389.67m (UTM NAD 83) E: 598859.04m (UTM NAD 83) |



FILE #: 092942000

DRAWING #: 092942000_PB08a_WellPlat

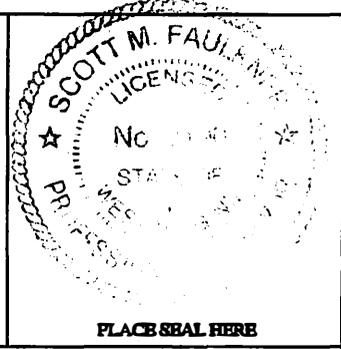
SCALE: 1" = 3,000'

MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SOURCE: SUBMETER MAPPING
OF ELEVATION: SURVEY GPS

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 DEPARTMENT OF ENVIRONMENTAL PROTECTION.

SIGNED: Scott M. Faulkner
R.P.E.: _____ L.L.S.: 2190



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304



DATE: OCTOBER 02, 2012

OPERATOR'S WELL #: HARSHBERGER 205

API WELL #: 47 001 03276H2A

STATE: _____ COUNTY: _____ PERMIT: _____

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP

GAS LIQUID INJECTION STORAGE SHALLOW

COUNTY/DISTRICT: TYGART VALLEY BARBOUR / COVE

SURFACE OWNER: BEATRICE HARSHBERGER

OIL & GAS ROYALTY OWNER: _____

ELEVATION: 1,706'

QUADRANGLE: THORNTON

ACREAGE: 203±(DEED)

ACREAGE: _____

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE

PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON

CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TMD: 14946' TVD: 7659'

WELL OPERATOR: MOUNTAINEER KEYSTONE, LLC DESIGNATED AGENT: JOHN NOCK

ADDRESS: 1111 VAN VOORHIS DRIVE SUITE G ADDRESS: 1111 VAN VOORHIS DRIVE SUITE G

CITY: MORGANTOWN STATE: WV ZIP CODE: 26505 CITY: MORGANTOWN STATE: WV ZIP CODE: 26505



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

November 08, 2012

WELL WORK PERMIT
Horizontal 6A Well

This permit, API Well Number: 47-103274, issued to MOUNTAINEER KEYSTONE, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

A handwritten signature in black ink, appearing to read 'James Martin', is written over the typed name and title.

James Martin
Chief

Operator's Well No: HARSHBERGER 201
Farm Name: HARSHBERGER, BEATRICE
API Well Number: 47-103274
Permit Type: Horizontal 6A Well
Date Issued: 11/08/2012

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the fill material shall be within plus or minus 2% of the optimum moisture content as determined by the standard proctor density test. Each lift must meet 95 % compaction of the optimum density based on results from the standard proctor density test of the actual soils used in specific engineered fill sites. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
3. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
4. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
5. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.

1-03274

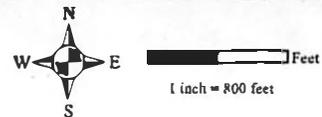
6
9



Mountaineer Keystone, LLC
 Harshberger, Scot 201-207
 1500 Foot Landowner Map
 Cove District, Barbour County, WV
 PROJECT NO: 092942000

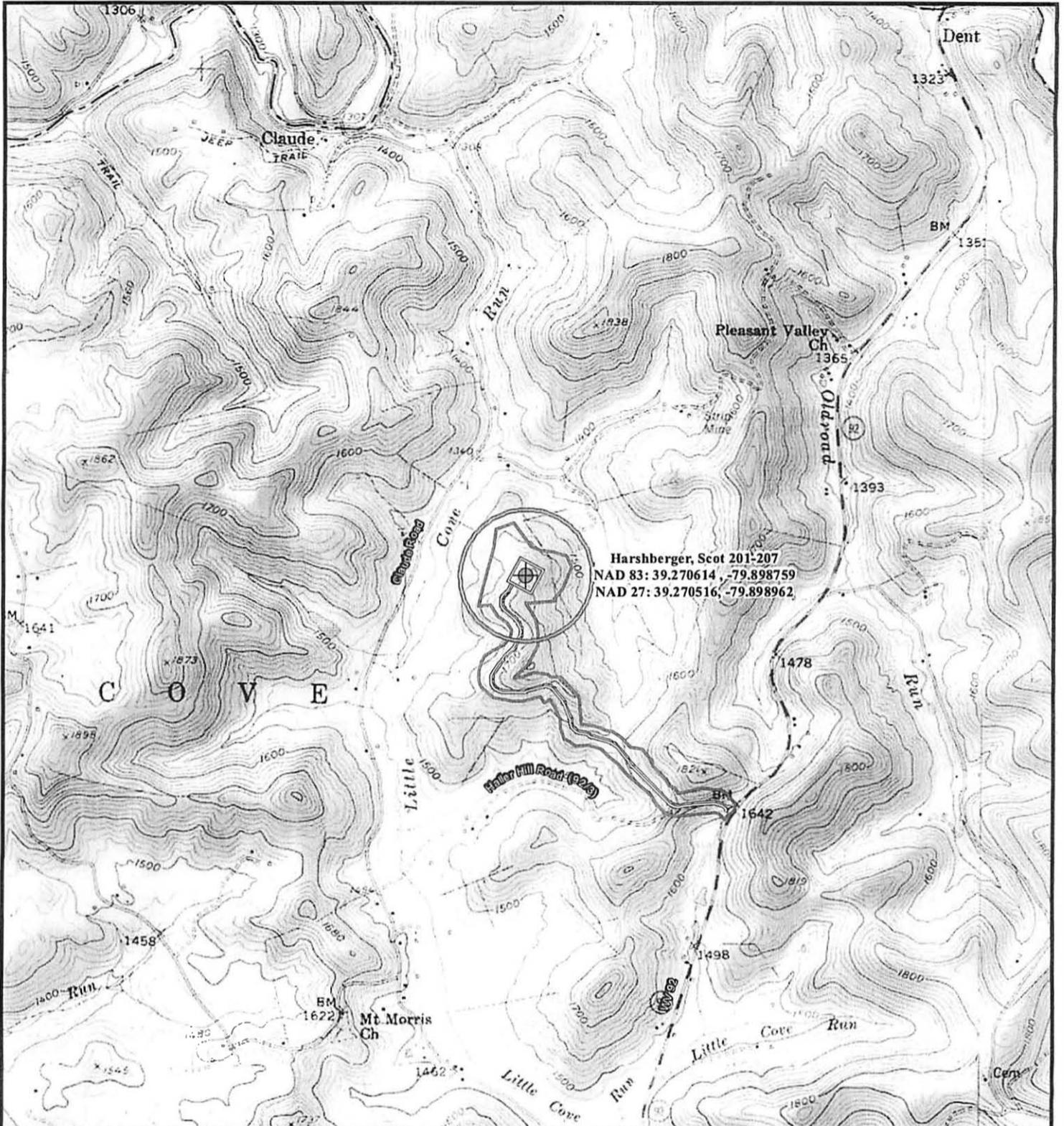
9/28/2012

-  Well Pad Centroid
-  NWI Wetland
-  1500 Foot Well Buffer
-  NHD Stream
-  Parcel Boundary
-  Parcels Touching Buffer



Mountaineer Keystone  **RETTEW**

I:\Projects\092942000\GIS\Basemap\092942000_Harshberger_1500_Footer_Aerial_11x17.mxd



RECEIVED
Office of Oil and Gas

AUG 1 8 2012

WV Department of Environmental Protection

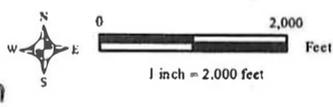
Cove District, Barbour County, WV
Thorton, WV USGS 7.5' Topographic Quadrangle

8/7/2012

-  Proposed Well Pad
-  Well Pad & Access Road Outline
-  Area of Investigation (78 Acres)
-  1,000 Foot Buffer

Mountaineer Keystone
Harshberger, Scot 201-207
Figure 3: Water Purveyor Topographic Map
Project No: 092942000

0 2,000 Feet
1 inch = 2,000 feet



Mountaineer Keystone 

Latitude: N 39° 17' 30"

Longitude: W 79° 52' 30"

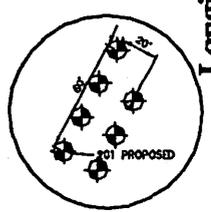
| TRACT | LESSOR | PARCEL NUMBER |
|-------|---|---------------|
| 1 | RIDDLE O. S. & MARGARET Y | 422006487 |
| 2 | MICK ROBERT D & LISBETH A | 422008521 |
| 3 | NESTOR NATHANIEL BURT JR & ANNA-ELIZABETH | 422008645 |
| 4 | NESTOR NATHANIEL BURT JR & ANNA-ELIZABETH | 422008518 |
| 5 | NESTOR NATHANIEL BURT JR & ANNA-ELIZABETH | 422008644 |
| 6 | AKERS GARY G & JOYCE K | 422008514 |
| 7 | SHELDON TIMOTHY & JANET | 422008516 |
| 8 | PITZER GEORGE D, LIFE EST | 422009631 |
| 9 | UNGER FRANK E JR | 422008512 |
| 10 | UNGER FRANK E JR | 422008510 |
| 11 | BOYCE LAWRENCE JR | 422008643 |
| 12 | HARKER ROSALEA | 422008489 |
| 13 | BOYCE LAWRENCE JR | 422008637 |
| 14 | BOYCE LAWRENCE JR | 422008640 |
| 15 | BOYCE LAWRENCE JR | 422008515 |
| 16 | HARKER ROSALEA | 422008491 |
| 17 | MOWEN, BEN & BERGDORF, ZACKARY | 422008477 |
| 18 | HARKER ROSALEA | 422008479 |
| 19 | HARSHBERGER BEATRICE L/E | 422009692 |
| 20 | KEFNER DAVID A & MARY CRAIG | 422008459 |
| 21 | SMITH ROY C JR & MARY | 422007480 |

GENERAL NOTES:

- THE BOUNDARY LINES SHOWN HEREON ARE BASED ON RECORD DEED, PLATS, AND TAX MAPS BEST FIT TO FOUND FIELD EVIDENCE AND AERIAL PHOTOS.
- THIS PLAT DOES NOT REPRESENT AN ACTUAL BOUNDARY SURVEY OF THE INDIVIDUAL PARCELS.

JAM
7-13-12

DETAIL N.T.S



| LINE | BEARING | LENGTH |
|------|-------------|--------|
| L1 | S88°13'57"E | 408' |
| L2 | N85°54'18"W | 248' |
| L3 | N55°49'48"E | 399' |
| L4 | S81°45'37"W | 842' |

LEGEND



PROPOSED GAS WELL

PROPOSED BOTTOM HOLE

PROPOSED BORE

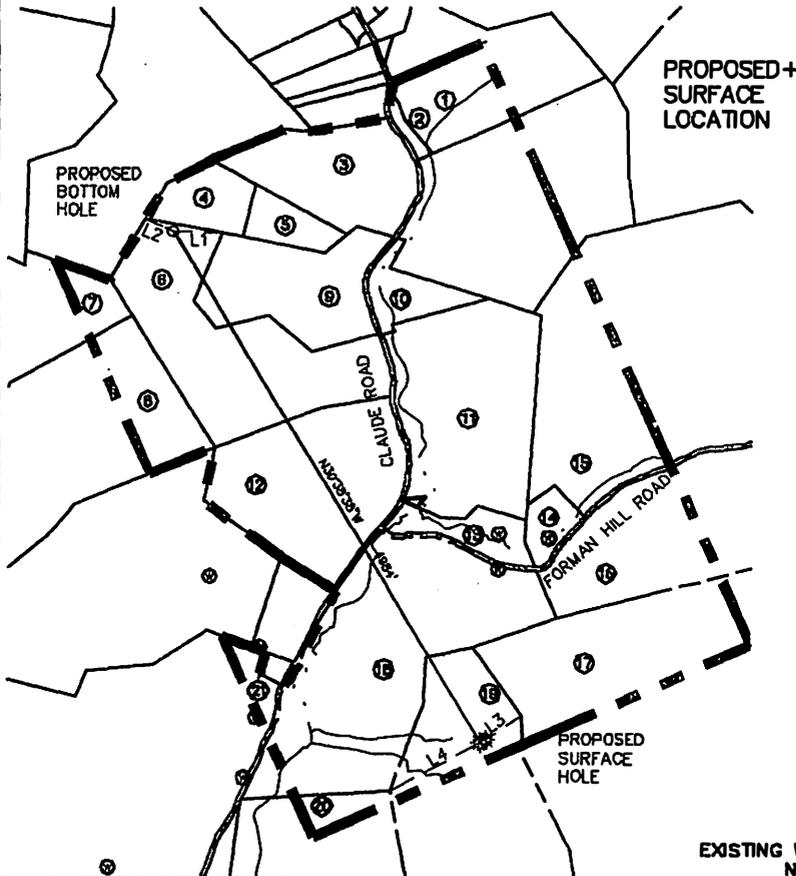
PROPERTY CORNER TIE LINE

OIL & GAS LEASE BOUNDARY

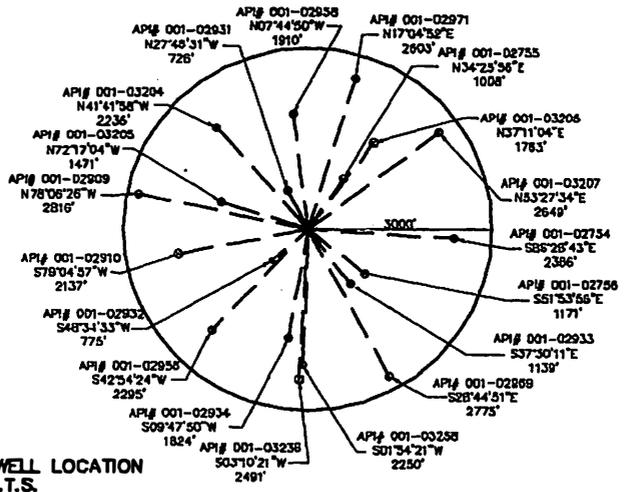
STREAM

WATER WELL

GRID NORTH
NAD 83



| SURFACE POINT | BOTTOM HOLE |
|--|---|
| LAT: 39.270733° (NAD 83) LONG: 79.898917° (NAD 83) N: 280973.06 (NAD 83) E: 1855583.18 (NAD 83) | LAT: 39.282476° (NAD 83) LONG: 79.90786° (NAD 83) N: 285261.41 (NAD 83) E: 1853022.80 (NAD 83) |
| LAT: 39.270835 (NAD 27) LONG: 79.899121 (NAD 27) N: 280932.14 (NAD 27) E: 1887002.44 (NAD 27) | LAT: 39.282379 (NAD 27) LONG: 79.90816 (NAD 27) N: 285220.74 (NAD 27) E: 1884461.81 (NAD 27) |
| N: 4347398.81m (UTM NAD 83) E: 584881.42m (UTM NAD 83) | N: 4348882.34m (UTM NAD 83) E: 584185.86m (UTM NAD 83) |



FILE#: 092942000

DRAWING#: 092942000_PBase_WellPlat

SCALE: 1" = 1,600'

MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING SURVEY GPS

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 DEPARTMENT OF ENVIRONMENTAL PROTECTION.

SIGNED: _____

R.P.E.: _____

LLS.: _____

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304



DATE: JULY 10, 2012

OPERATOR'S WELL #: HARSHBERGER 201

API WELL #: 47 001 0327446A

STATE: _____ COUNTY: _____ PERMIT: _____

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP

GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: TYGART VALLEY

COUNTY/DISTRICT: BARBOUR / COVE

SURFACE OWNER: BEATRICE HARSHBERGER

OIL & GAS ROYALTY OWNER: _____

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE

PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON

CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TMD: 12878' TVD: 8009'

WELL OPERATOR: MOUNTAINEER KEYSTONE, LLC DESIGNATED AGENT: JOHN NOCK

ADDRESS: 1111 VAN VOORHIS DRIVE SUITE G ADDRESS: 1111 VAN VOORHIS DRIVE SUITE G

CITY: MORGANTOWN STATE: WV ZIP CODE: 26505 CITY: MORGANTOWN STATE: WV ZIP CODE: 26505



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

November 08, 2012

WELL WORK PERMIT

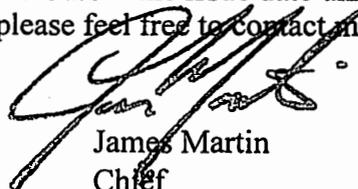
Horizontal 6A Well

This permit, API Well Number: 47-103277, issued to MOUNTAINEER KEYSTONE, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: HARSHBERGER 206
Farm Name: HARSHBERGER, BEATRICE
API Well Number: 47-103277
Permit Type: Horizontal 6A Well
Date Issued: 11/08/2012

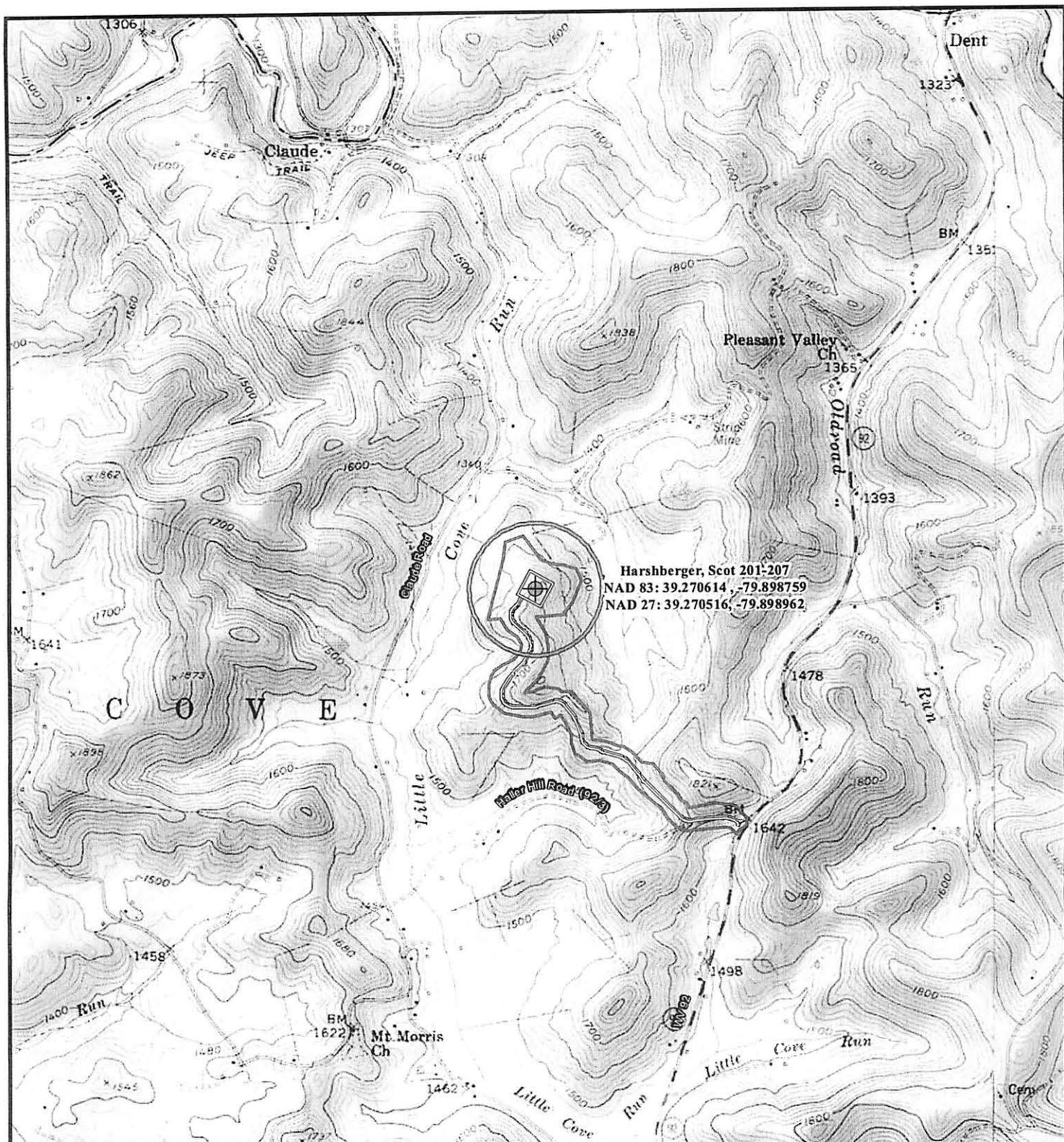
Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the fill material shall be within plus or minus 2% of the optimum moisture content as determined by the standard proctor density test. Each lift must meet 95 % compaction of the optimum density based on results from the standard proctor density test of the actual soils used in specific engineered fill sites. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
3. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
4. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
5. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.

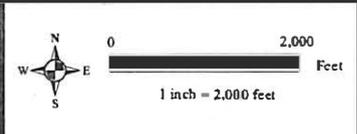


 Proposed Well Pad
 Well Pad & Access Road Outline
 Area of Investigation (78 Acres)
 1,000 Foot Buffer

RECEIVED
Office of Oil and Gas
 AUG 13 2012
WV Department of Environmental Protection

Cove District, Barbour County, WV
 Thornton, WV USGS 7.5' Topographic Quadrangle
8/7/2012

Mountaineer Keystone
 Harshberger, Scot 201-207
Figure 3: Water Purveyor Topographic Map
 Project No: 092942000



Latitude: N 39° 17' 30"

Longitude: W 79° 52' 30"

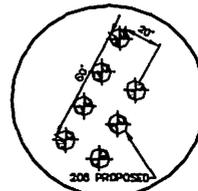
| TRACT / LESSOR | PARCEL NUMBER |
|---|---------------|
| 1 MIDDLE O. S. & MARGARET Y | 422006487 |
| 2 MICK ROBERT D & LISBETH A | 422008521 |
| 3 NESTOR NATHANIEL BURT JR & ANNA-ELIZABETH | 422008645 |
| 4 NESTOR NATHANIEL BURT JR & ANNA-ELIZABETH | 422008518 |
| 5 NESTOR NATHANIEL BURT JR & ANNA-ELIZABETH | 422008644 |
| 6 BAKERS GARY G & JOYCE K | 422008514 |
| 7 SHELTON TIMOTHY & JANET | 422008516 |
| 8 PITZER GEORGE D, LIFE EST | 422008631 |
| 9 JINGER FRANK E JR | 422008512 |
| 10 JINGER FRANK E JR | 422008510 |
| 11 BOYCE LAWRENCE JR | 422008643 |
| 12 HARKER ROSALEA | 422008489 |
| 13 BOYCE LAWRENCE JR | 422008637 |
| 14 BOYCE LAWRENCE JR | 422008840 |
| 15 BOYCE LAWRENCE JR | 422008515 |
| 16 HARKER ROSALEA | 422008481 |
| 17 MOWEN, BEN & BERGDORF, ZACKARY | 422008477 |
| 18 HARKER ROSALEA | 422008479 |
| 19 HARSHBERGER BEATRICE I/E | 422008692 |
| 20 KEENER DAVID A & MARY CRAIG | 422008459 |
| 21 SMITH ROY C JR & MARY | 422007480 |
| 22 WOLFE CATHARINE | 422008444 |
| 23 WOLFE JOHN MOORE & MARGARET J | 422008411 |
| 24 PITZER JAMES | 422008391 |
| 25 MACKAY MARGARET LIFE EST & JOHN M WOLFE | 422008402 |
| 26 WOLFE JOHN M & VICKIE C | 422005906 |
| 27 WOLFE HAZEL N | 422006474 |
| 28 MACKAY MARGARET J LIFE EST | 422008375 |
| 29 MACKAY MARGARET LIFE EST & JOHN M WOLFE | 422008410 |

GRID NORTH
NAD 83

GENERAL NOTES:

1. THE BOUNDARY LINES SHOWN HEREON ARE BASED ON RECORD DEED, PLATS, AND TAX MAPS BEST FIT TO FOUND FIELD EVIDENCE AND AERIAL PHOTOS.
2. THIS PLAT DOES NOT REPRESENT AN ACTUAL BOUNDARY SURVEY OF THE INDIVIDUAL PARCELS.

DETAIL
N.T.S

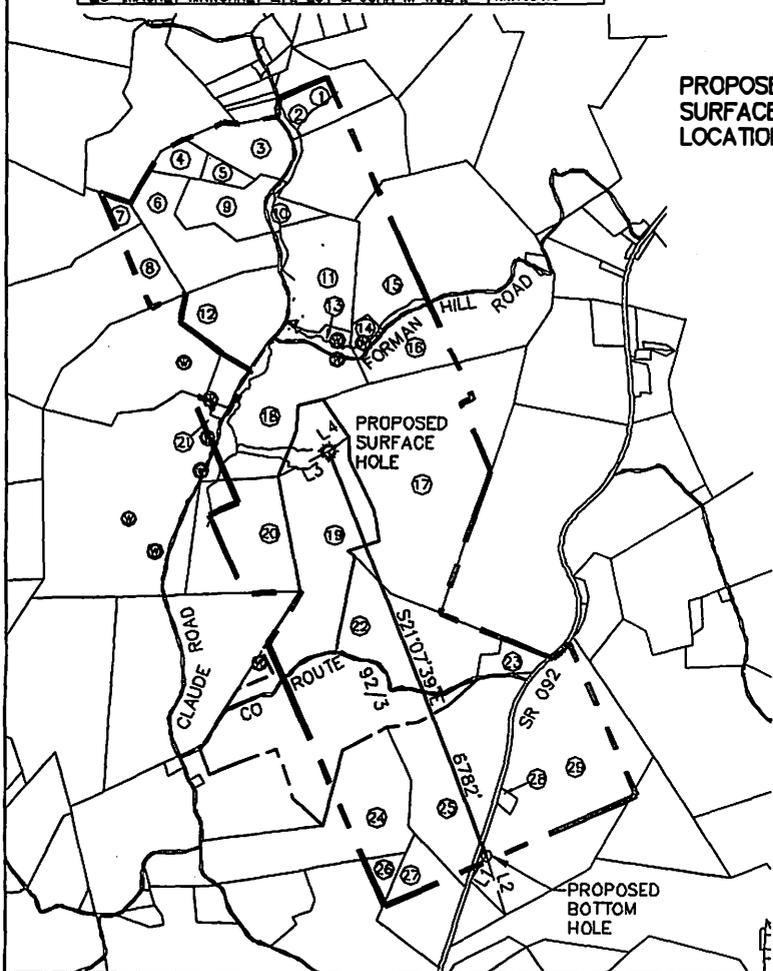


| LINE | BEARING | LENGTH |
|------|-------------|--------|
| L1 | N31°07'40"E | 455' |
| L2 | S17°22'43"E | 984' |
| L3 | S62°07'21"W | 870' |
| L4 | N54°32'55"E | 373' |

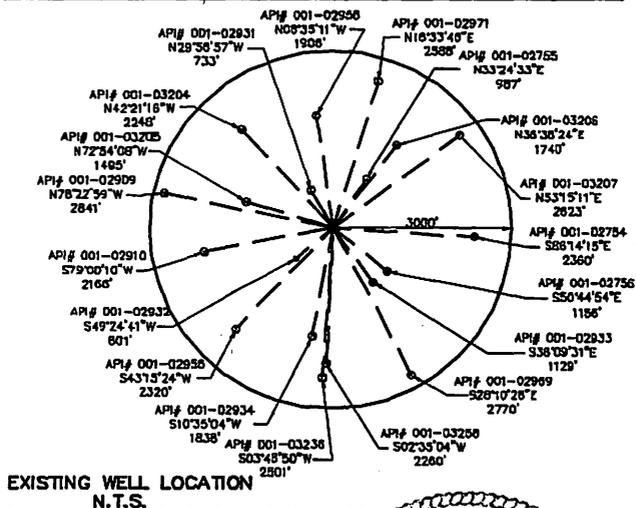
LEGEND

- PROPOSED GAS WELL
- PROPOSED BOTTOM HOLE
- PROPOSED BORE
- PROPERTY CORNER TIE LINE
- OIL & GAS LEASE BOUNDARY
- STREAM
- WATER WELL

PROPOSED
SURFACE
LOCATION



| SURFACE POINT | BOTTOM HOLE |
|--|--|
| LAT: 39.270757° (NAD 83) LONG: 79.898822° (NAD 83) N: 280981.48 (NAD 83) E: 1855590.24 (NAD 83) | LAT: 39.253418° (NAD 83) LONG: 79.890080° (NAD 83) N: 274655.44 (NAD 83) E: 1858034.67 (NAD 83) |
| LAT: 39.270859° (NAD 27) LONG: 79.899026° (NAD 27) N: 280940.56 (NAD 27) E: 1887029.53 (NAD 27) | LAT: 39.253319° (NAD 27) LONG: 79.890294° (NAD 27) N: 274614.20 (NAD 27) E: 1888474.09 (NAD 27) |
| N: 4347401.31m (UTM NAD 83) E: 594988.63m (UTM NAD 83) | N: 4345486.24m (UTM NAD 83) E: 595766.41m (UTM NAD 83) |



FILE#: 092942000

DRAWING#: 092942000_PB000_WellPlat

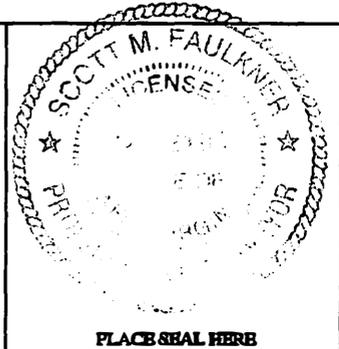
SCALE: 1" = 3000'

MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING SURVEY GPS

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 DEPARTMENT OF ENVIRONMENTAL PROTECTION.

SIGNED: [Signature]
R.P.R.: _____ L.L.S.: 2190



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP

OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304



DATE: OCTOBER 02, 2012
OPERATOR'S WELL #: HARSHBERGER 208
API WELL #: 47 001 03277 HGA
STATE COUNTY PERMIT

WELL TYPE: OIL WASTE DISPOSAL GAS LIQUID INJECTION

PRODUCTION DEEP STORAGE SHALLOW

WATERSHED: TYGART VALLEY ELEVATION: 1,795'
COUNTY/DISTRICT: BARBOUR / COVE QUADRANGLE: THORNTON
SURFACE OWNER: BEATRICE HARSHBERGER ACREAGE: 203±(DEED)
OIL & GAS ROYALTY OWNER: _____ ACREAGE: _____

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TMD: 14503' TVD: 7884'
WELL OPERATOR: MOUNTAINEER KEYSTONE, LLC DESIGNATED AGENT: JOHN NOCK
ADDRESS: 1111 VAN VOORHIS DRIVE SUITE G ADDRESS: 1111 VAN VOORHIS DRIVE SUITE G
CITY: MORGANTOWN STATE: WV ZIP CODE: 26505 CITY: MORGANTOWN STATE: WV ZIP CODE: 26505