



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

PERMIT MODIFICATION APPROVAL

December 29, 2014

MOUNTAINEER KEYSTONE, LLC
6031 WALLACE ROAD EXTENSION - SUITE 300
PITTSBURGH, PA 15090

Re: Permit Modification Approval for API Number 103326 , Well #: HOWDERSHELT 212
Relocate wellhead

Oil and Gas Operator:

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

Gene Smith
Assistant Chief of Permitting
Office of Oil and Gas

212
001-03326
MOD



July 23, 2014

Mr. Gene Smith
Assistant Chief
WVDEP - Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304

RE: Howdershelt 201-212 MODIFICATION

Gene:

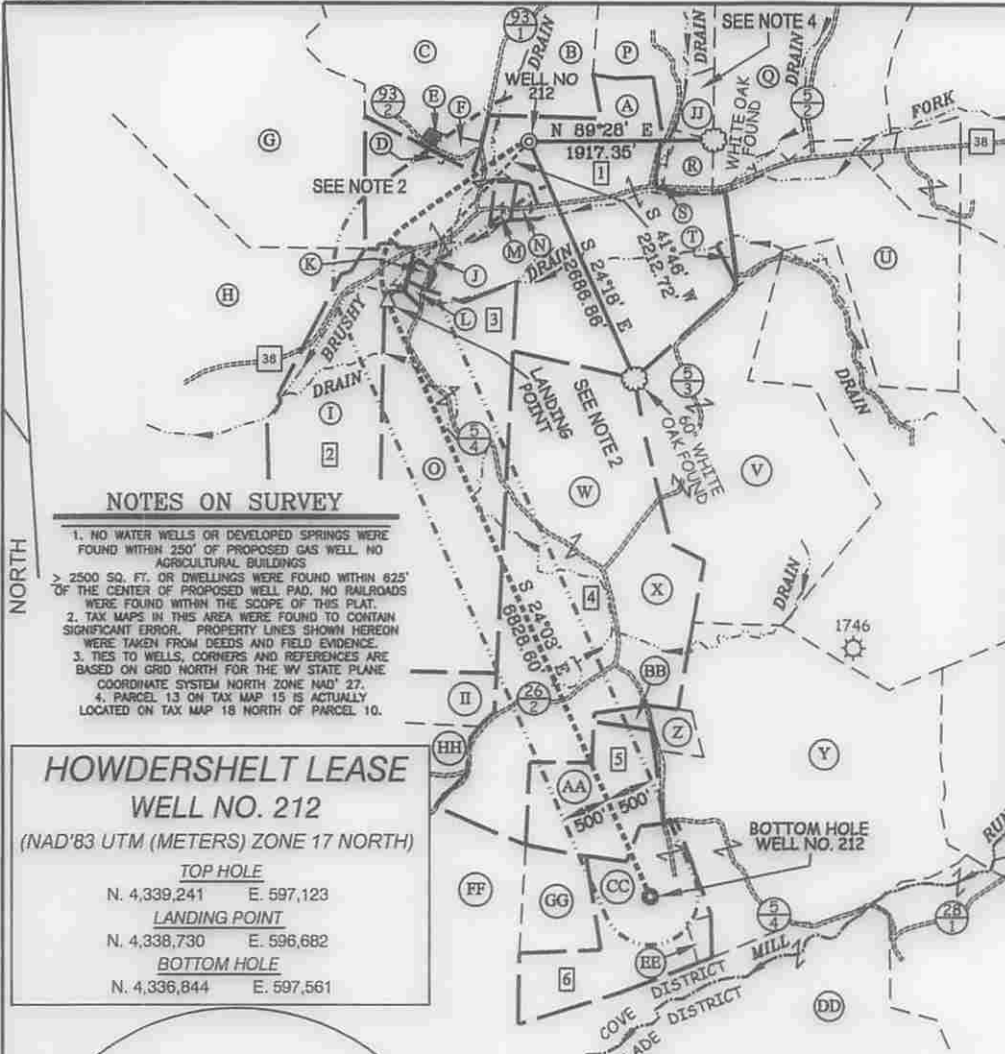
Enclosed please find new plats and WW-6A1 forms for the Howershelt 201-212 pad. We are requesting a change to the location of the wellheads from the originally permitted locations. We did not submit new construction drawings, due to the fact that the LODs will not change.

If you have any questions or require any further information, please feel free to contact me.

Sincerely,

Amy L. Miller
Regulatory Compliance Specialist

RECEIVED
Office of Oil and Gas
JUL 28 2014
WV Department of
Environmental Protection



SURFACE OWNERS		
A	MELVIN AND RENEE HOWDERSHOLT	TM 19 PAR. 41
B	MELVIN AND RENEE HOWDERSHOLT	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 HOWDERSHOLT	TM 19 PAR. 41.4
N	MELVIN AND RENEE HOWDERSHOLT	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	DORSEY AND MAUDIE POLING ET AL.	TM 18 PAR. 07
R	THOMAS W. OWENS	TM 18 PAR. 10
S	THOMAS W. OWENS	TM 18 PAR. 09
T	ELBERT McLEAN ET UX	TM 18 PAR. 39
U	MARK AND ELOISE HOLLEN	TM 18 PAR. 30
V	PAUL AND JOHN ADAMS	TM 18 PAR. 31
W	JAMES B. ANCELL	TM 26 PAR. 01
X	JAMES B. ANCELL	TM 26 PAR. 02
Y	ROMMELL FAMILY TRUST	TM 26 PAR. 05
Z	ROMMELL FAMILY TRUST	TM 26 PAR. 05.1
AA	JOHN SHAFFER ET UX	TM 26 PAR. 03.1
BB	HARRY T. SHAFFER ET AL.	TM 26 PAR. 03
CC	GERTRUDE HALLER	TM 28 PAR. 04
DD	BRIAN PURKEY ET AL.	TM 04 PAR. 01
EE	JERRY D. HALLER ET UX	TM 26 PAR. 4.1
FF	DOWARD MATLUCK ET UX	TM 25 PAR. 41
GG	DOWARD MATLUCK ET UX	TM 25 PAR. 43
HH	JEAN G. MARSH ET AL.	TM 25 PAR. 40.3
II	GARY A. MARSH	TM 25 PAR. 40
JJ	GLEN MOORE ET UX	TM 15 PAR. 13

NOTES ON SURVEY

1. NO WATER WELLS OR DEVELOPED SPRINGS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL NO. 212. 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.

**HOWDERSHOLT LEASE
WELL NO. 212**

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

TOP HOLE

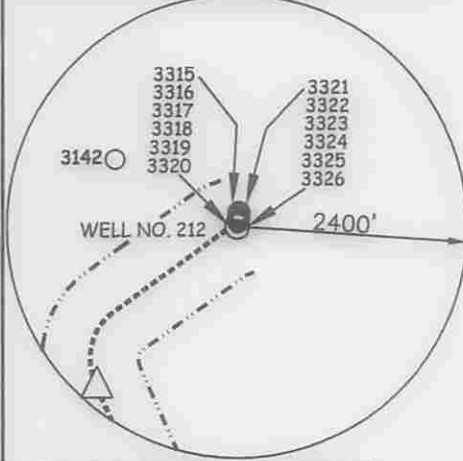
N. 4,339,241 E. 597,123

LANDING POINT

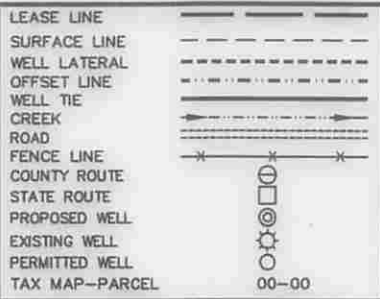
N. 4,338,730 E. 596,682

BOTTOM HOLE

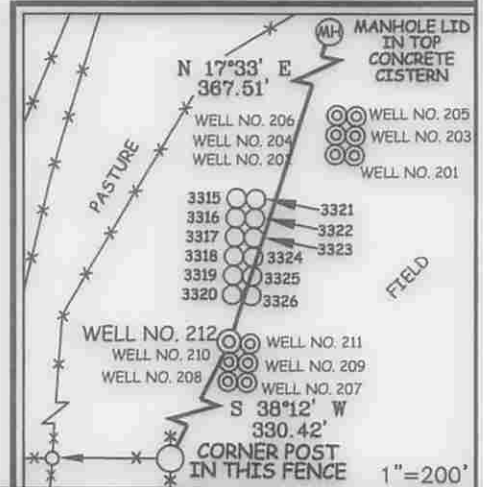
N. 4,336,844 E. 597,561



LATERAL ROYALTY OWNERS		
1	MELVIN HOWDERSHOLT ET UX	158.94 AC±
2	RONALD AUVIL	81 AC±
3	LORETHA M. ANNON LEGACY TRUST ET AL.	114 AC±
4	JAMES ANCELL ET UX	49.48 AC± & 118 AC±
5	JOHN SHAFFER ET UX	37.25 AC±
6	GERTRUDE A. HALLER	43.76 AC±



REFERENCES



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

SLS
SURVEYORS
ENGINEERS
ENVIRONMENTAL
PROJECT MGMT.

(304) 402-6834 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. 212
API WELL NO. 47 - 001 - 03326 MOD
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 7962P212R5
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 1,561'(GROUND) 1,557'(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 AND RENEE HOWDERSHOLT 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 16,124'

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

01/02/2015

COUNTY NAME PERMIT