



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

February 10, 2015

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

Re: Permit Modification Approval for API Number 103319 , Well #: HOWDERSHELT 205
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

Mountaineer
Keystone
LLC



205
47-001-03319 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

LEGEND

LEASE LINE	---
SURFACE LINE	- - - - -
WELL LATERAL	⋯⋯⋯
OFFSET LINE	⋯⋯⋯
WELL TIE	---
CREEK	~~~~~
ROAD	==
FENCE LINE	⋈
COUNTY ROUTE	⊗
STATE ROUTE	⊠
PROPOSED WELL	⊙
EXISTING WELL	⊘
PERMITTED WELL	⊚
TAX MAP-PARCEL	00-00

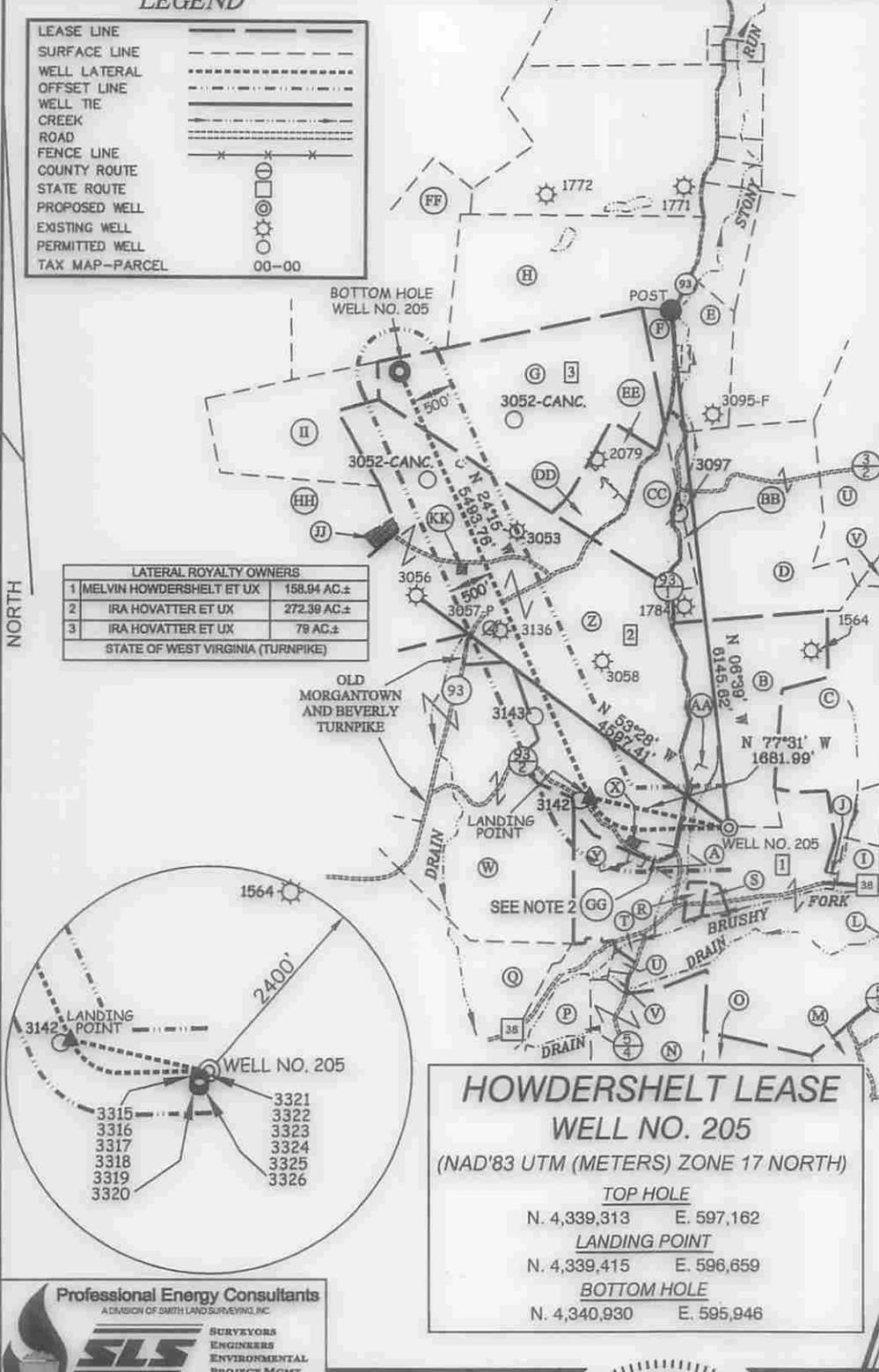
LATITUDE 39°12'30"

SURFACE OWNERS		
A	MELVIN & RENEE HOWDERSHELT	TM 19 PAR. 41
B	MELVIN & RENEE HOWDERSHELT	TM 19 PAR. 40
C	GLEN MOORE ET UX	TM 18 PAR. 8
D	TOMMY & DOTTIE FREEMAN	TM 19 PAR. 39.1
E	ELIZABETH BOLYARD ET AL	TM 14 PAR. 53
F	ROBERT & BERNICE PITZER	TM 14 PAR. 37
G	IRA G. HOVATTER ET UX	TM 14 PAR. 38
H	A.C. BARBOUR, LLC C/O LINDA K. ROHRIG	TM 14 PAR. 38
I	THOMAS W. OWENS	TM 18 PAR. 10
J	THOMAS W. OWENS	TM 18 PAR. 9
K	MARK AND ELOISE HOLLEN	TM 18 PAR. 30
L	ELBERT McLEAN ET UX	TM 18 PAR. 36
M	PAUL AND JOHN ADAMS	TM 18 PAR. 31
N	LORETHA M. ANNON LEGACY TRUST ET AL	TM 19 PAR. 51
O	JAMES B. ANCELL	TM 26 PAR. 1
P	RONALD ALVIL	TM 19 PAR. 50
Q	BETTY L. KELLEY ET AL	TM 19 PAR. 47
R	ERIC V. HOWDERSHELT	TM 19 PAR. 41.4
S	MELVIN AND RENEE HOWDERSHELT	TM 19 PAR. 41.1
T	ELWOOD AND PENNY CANFIELD	TM 19 PAR. 41.5
U	ELWOOD CANFIELD	TM 19 PAR. 41.2
V	ERIC AND LISA EVIX	TM 19 PAR. 41.3
W	IRA G. AND CAROL HOVATTER	TM 19 PAR. 43
X	NEW HOPE VALLEY U.M. CHURCH	TM 19 PAR. 38.1
Y	NEW HOPE VALLEY CHURCH	TM 19 PAR. 42
Z	IRA G. AND CAROL HOVATTER	TM 19 PAR. 38
AA	MELVIN AND RENEE HOWDERSHELT	TM 19 PAR. 40.1
BB	ELIZABETH BOLYARD ET AL	TM 14 PAR. 38.4
CC	ELIZABETH BOLYARD ET AL	TM 14 PAR. 38.1
DD	JOHN T. FITZWATER	TM 14 PAR. 38.2
EE	JOHN T. FITZWATER	TM 14 PAR. 38.3
FF	EDSIL NESTOR ET AL	TM 14 PAR. 38.5
GG	CHURCH LOT	
HH	JOEY HOLT	TM 19 PAR. 36
II	EDSIL NESTOR	TM 14 PAR. 38
JJ	OLD DUTCH CHURCH	TM 19 PAR. 37
KK	OLD DUTCH CEMETERY	TM 19 PAR. 39

LATERAL ROYALTY OWNERS	
1	MELVIN HOWDERSHELT ET UX 158.94 AC.±
2	IRA HOVATTER ET UX 272.39 AC.±
3	IRA HOVATTER ET UX 78 AC.±
STATE OF WEST VIRGINIA (TURNPIKE)	

NORTH

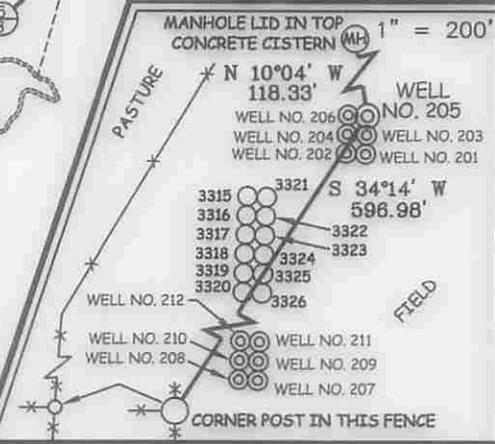
LONGITUDE 79°52'30"



NOTES ON SURVEY

- 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.
- TAX MAPS IN THIS AREA WERE FOUND TO CONTAIN SIGNIFICANT ERROR. PROPERTY LINES SHOWN HEREON WERE TAKEN FROM DEEDS AND FIELD EVIDENCE.
- TIES TO WELLS, CORNERS AND REFERENCES ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD' 27.

REFERENCES



HOWDERSHELT LEASE
WELL NO. 205
 (NAD'83 UTM (METERS) ZONE 17 NORTH)

TOP HOLE
 N. 4,339,313 E. 597,162

LANDING POINT
 N. 4,339,415 E. 596,659

BOTTOM HOLE
 N. 4,340,930 E. 595,946

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

SLS
 SURVEYORS
 ENGINEERS
 ENVIRONMENTAL
 PROJECT MGMT.

(304) 452-9524 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. *C. Victor Moyers*
 849

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

DATE JULY 14, 20 14

REVISED _____, 20 _____

OPERATORS WELL NO. 205

API WELL NO. 47-001-03319 MOD

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 7962P205R5

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 1,562'(GROUND) 1,557'(PROPOSED) WATERSHED BRUSHY FORK OF TETER CREEK

DISTRICT COVE COUNTY BARBOUR QUADRANGLE NESTORVILLE 7.5'

SURFACE OWNER MELVIN & RENEE HOWDERSHELT ACREAGE 158.94±

ROYALTY OWNER MELVIN & 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 14,378'

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

COUNTY NAME PERMIT