



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 103324 , Well #: HOWDERSHELT 210
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

2/0

001-03324 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,

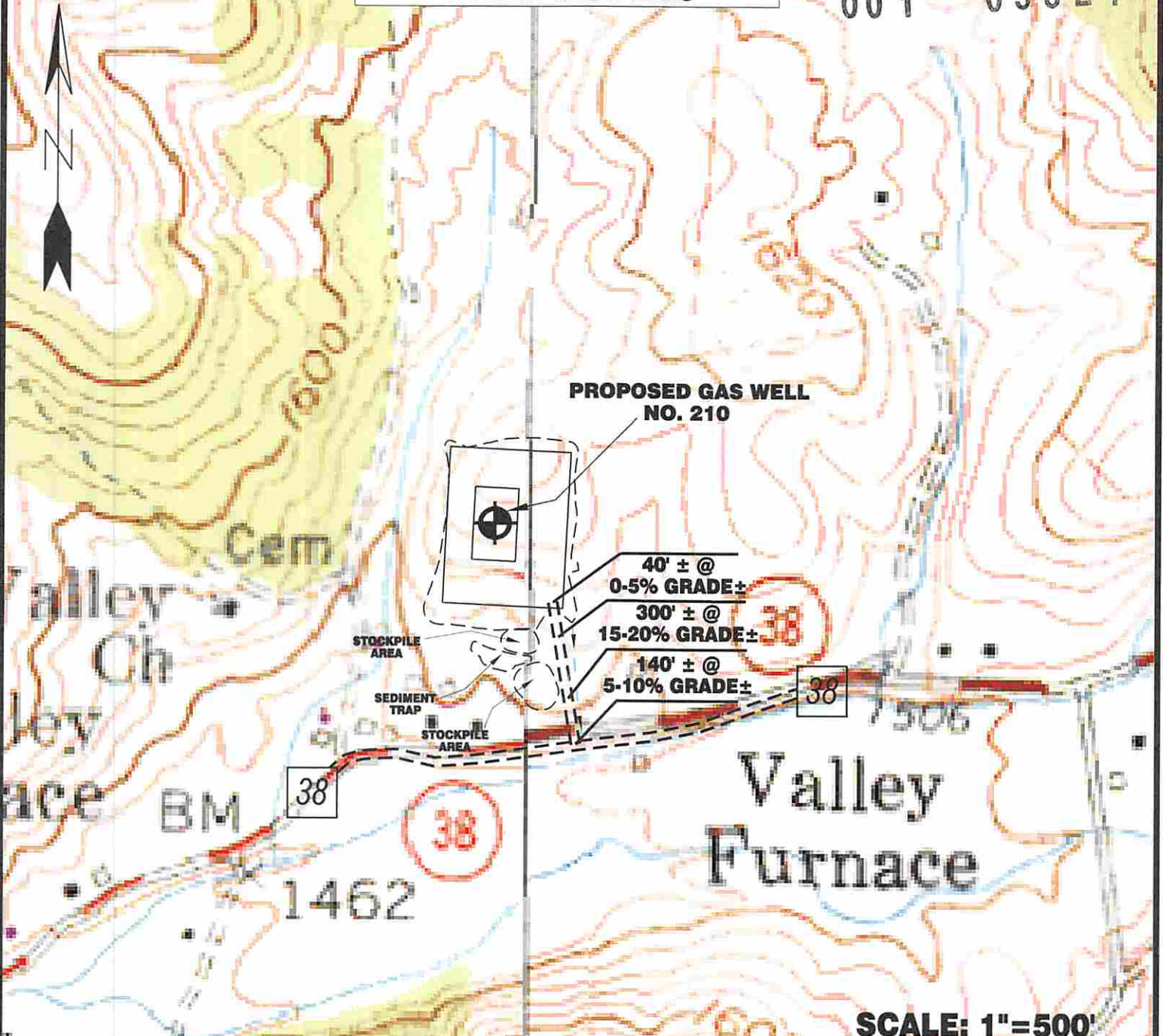
A handwritten signature in black ink that reads 'Amy L. Miller'.

Amy L. Miller
Regulatory Compliance Specialist

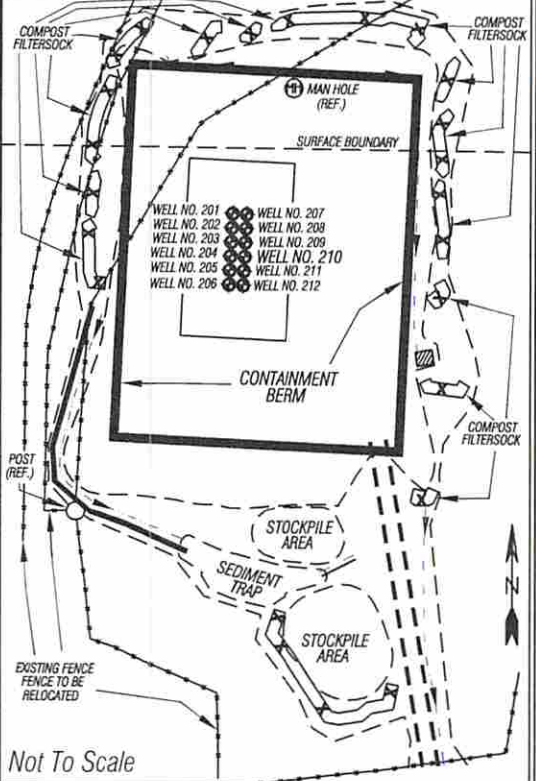
RECEIVED
Office of Oil and Gas
JUL 28 2014
WV Department of
Environmental Protection

HOWDERSHILT LEASE WELL NO. 210

001 03324



Detail Sketch for Proposed Well No. 210



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 TRAP

APPLICATIONS FOR SEPARATE P.I.C. PERMITS ON THE ACCESS ROAD STREAM CROSSINGS HAVE BEEN PREPARED (IF APPLICABLE)

01/02/2015

- = 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

235 West Main St.
P.O. Box 158
Greenville, WV 26331
(304) 482-5834

56085 Dilleys Bottom Road
Shady Side, OH 42947
(740) 671-9111

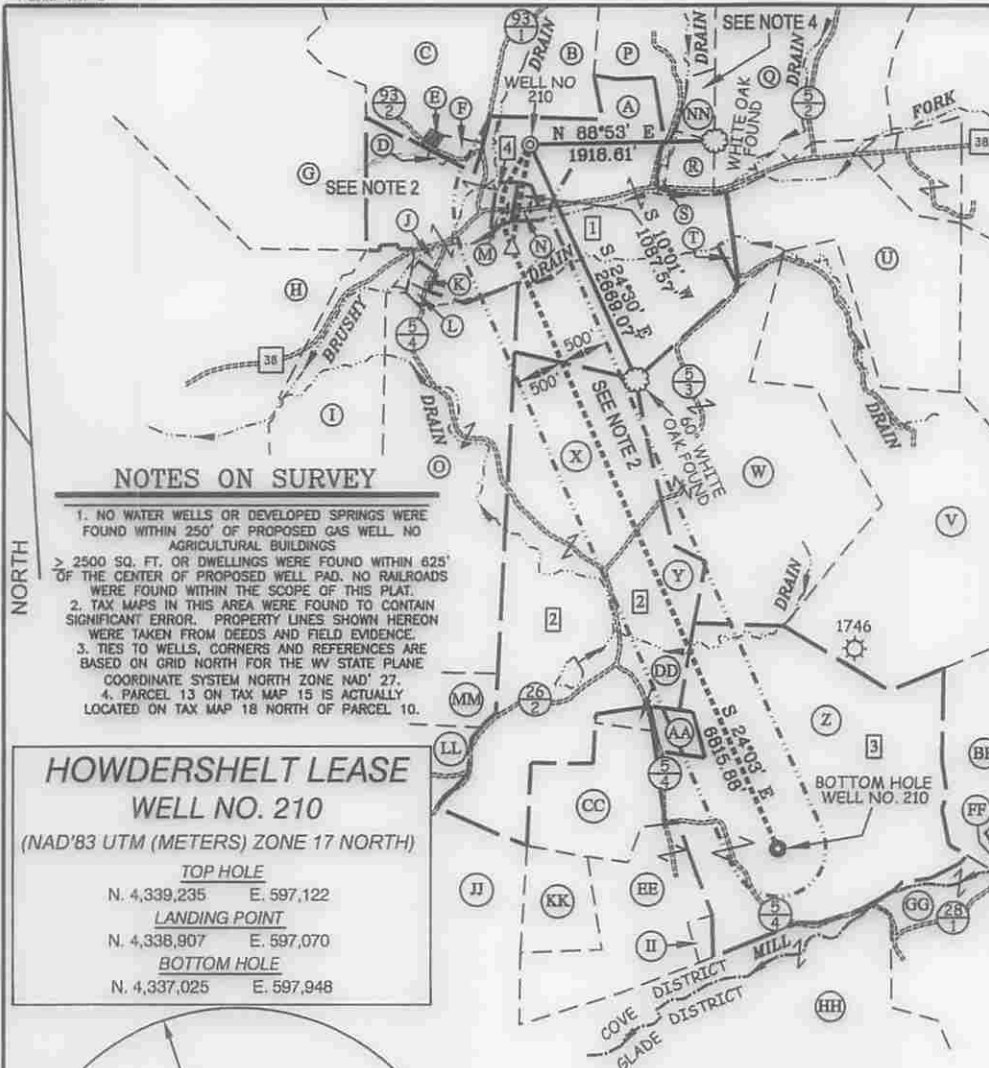
HONESTY, INTEGRITY, QUALITY

DRAWN BY: K.D.W. FILE NO.: 7962 DATE: 08/22/13 CADD FILE: 7962REC210.dwg

NESTORVILLE 7.5' QUAD COLEBANK 7.5' QUAD

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

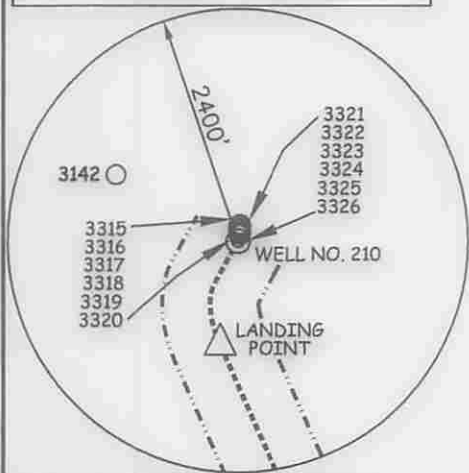
Office of Oil and Gas
WV Dept. of Environmental Protection



LATITUDE 39°12'30"

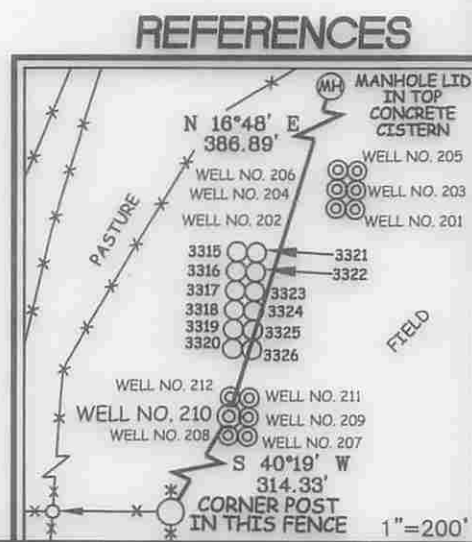
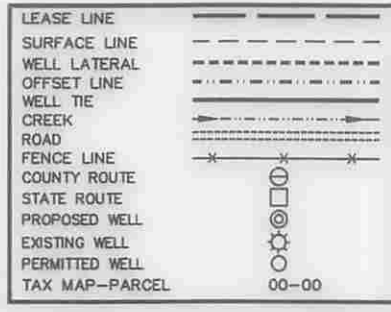
LONGITUDE 79°52'30"

SURFACE OWNERS		
A	MELVIN AND RENEE HOWERSHOLT	TM 19 PAR. 41
B	MELVIN AND RENEE HOWERSHOLT	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 HOWERSHOLT	TM 19 PAR. 41.4
N	MELVIN AND RENEE HOWERSHOLT	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	THOMAS AND RAMILE POLING	TM 18 PAR. 32
W	PAUL AND JOHN ADAMS	TM 18 PAR. 31
X	JAMES B. ANCELL	TM 26 PAR. 01
Y	JAMES B. ANCELL	TM 26 PAR. 02
Z	ROMMELL FAMILY TRUST	TM 26 PAR. 05
AA	ROMMELL FAMILY TRUST	TM 26 PAR. 05.1
BB	KEVIN KLINGENSMITH ET AL	TM 26 PAR. 06
CC	JOHN SHAFFER ET UX	TM 26 PAR. 03.1
DD	HARRY T. SHAFFER ET AL	TM 26 PAR. 03
EE	GERTRUDE HALLER	TM 26 PAR. 04
FF	MARY MOCCIO	TM 04 PAR. 06
GG	MARY MOCCIO	TM 04 PAR. 05
HH	BRIAN PURKEY ET AL	TM 04 PAR. 01
II	JERRY D. HALLER ET UX	TM 26 PAR. 4.1
JJ	DOWARD MATLUCK ET UX	TM 25 PAR. 41
KK	DOWARD MATLUCK ET UX	TM 25 PAR. 43
LL	JEAN G. MARSH ET AL	TM 25 PAR. 40.3
MM	GARY A. MARSH	TM 25 PAR. 40
NN	GLEN MOORE ET UX	TM 15 PAR. 13



LATERAL ROYALTY OWNERS

1	MELVIN HOWERSHOLT ET UX	158.94 AC±
2	JAMES ANCEL ET UX	49.46 AC± & 116 AC±
3	ROMMELL FAMILY TRUST	111 AC±
4	V. ERIC HOWERSHOLT	2.15 AC±



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SLS
 SURVEYORS
 ENGINEERS
 ENVIRONMENTAL
 PROJECT MGMT.

(204) 682-6534
 WWW.SLSSURVEYS.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.



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

DATE JULY 14, 20 14

REVISED _____, 20 _____

OPERATORS WELL NO. 210

API WELL NO. 47-001-03324

STATE MD COUNTY BARBOUR PERMIT 03324

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 7962P210R5

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 X LIQUID INJECTION _____ WASTE DISPOSAL _____ IF "GAS" PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X

LOCATION: ELEVATION 1,564'(GROUND) 1,557'(PROPOSED) WATERSHED BRUSHY FORK OF TETER CREEK

DISTRICT COVE COUNTY BARBOUR QUADRANGLE NESTORVILLE 7.5'

SURFACE OWNER MELVIN AND RENEE HOWERSHOLT ACREAGE 158.94±

ROYALTY OWNER MELVIN AND RENEE HOWERSHOLT ACREAGE 158.94±

PROPOSED WORK: DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE X 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 15,166'

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

01/02/2015