

Note: No water wells within 250' of well were found, no dwellings within 625' of pad center were found.

NOTE: BORE PATH BASED ON GRID NORTH.

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,384,037.1
E) 512,301.0
UTM. NAD83, ZONE 17
IN FEET
N) 14,383,295
E) 1,680,774

TARGET POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,384,087.7
E) 512,204.1
UTM. NAD83, ZONE 17
IN FEET
N) 14,383,461
E) 1,680,456

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,385,936.1
E) 511,344.0
UTM. NAD83, ZONE 17
IN FEET
N) 14,389,525
E) 1,677,634

LEGEND

- LEASED TRACTS
- INTERIOR MINERAL TRACTS
- SURFACE TRACTS
- HARD LEASE LINE

FILE NUMBER W0110309

DRAWING NUMBER LACKAWANNA_WP_5H_Rev1

SCALE 1" = 1000'

MINIMUM DEGREE OF ACCURACY 1/200

PROVEN SOURCE SUBMETER MAPPING
OF ELEVATION GRADE 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

P.S. Jonathan N. White
2122



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

DATE REVISED: FEBRUARY 09, 2015

OPERATORS WELL NO. LACKAWANNA NO. 5H

API WELL NO. 47-103-0305046A

STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL

(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW

LOCATION ELEVATION 1302' WATERSHED (HUC 10) OUTLET MIDDLE ISLAND CREEK (UNDEFINED)

DISTRICT MAGNOLIA COUNTY WETZEL

QUADRANGLE PORTERS FALLS 7.5' LEASE NUMBER WV140-0014-000, WV140-0004-001, WV140-0005-001, WV140-0006-001, WV140-0010-002, WV140-0016-001

SURFACE OWNER M.B. INVESTMENTS ACREAGE 88.09

OIL & GAS ROYALTY OWNER M.B. INVESTMENTS, ET AL LEASE ACREAGE 502.05

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION

PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) _____

PLUG & ABANDON CLEAN OUT & REPLUG

TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD: 6975' TMD: 13,351'

DESIGNATED AGENT MICHAEL McCOWN

WELL OPERATOR GASTAR EXPLORATION INC.

ADDRESS 229 W MAIN STREET, SUITE 301 CLARKSBURG WV, 26301

02/20/2015

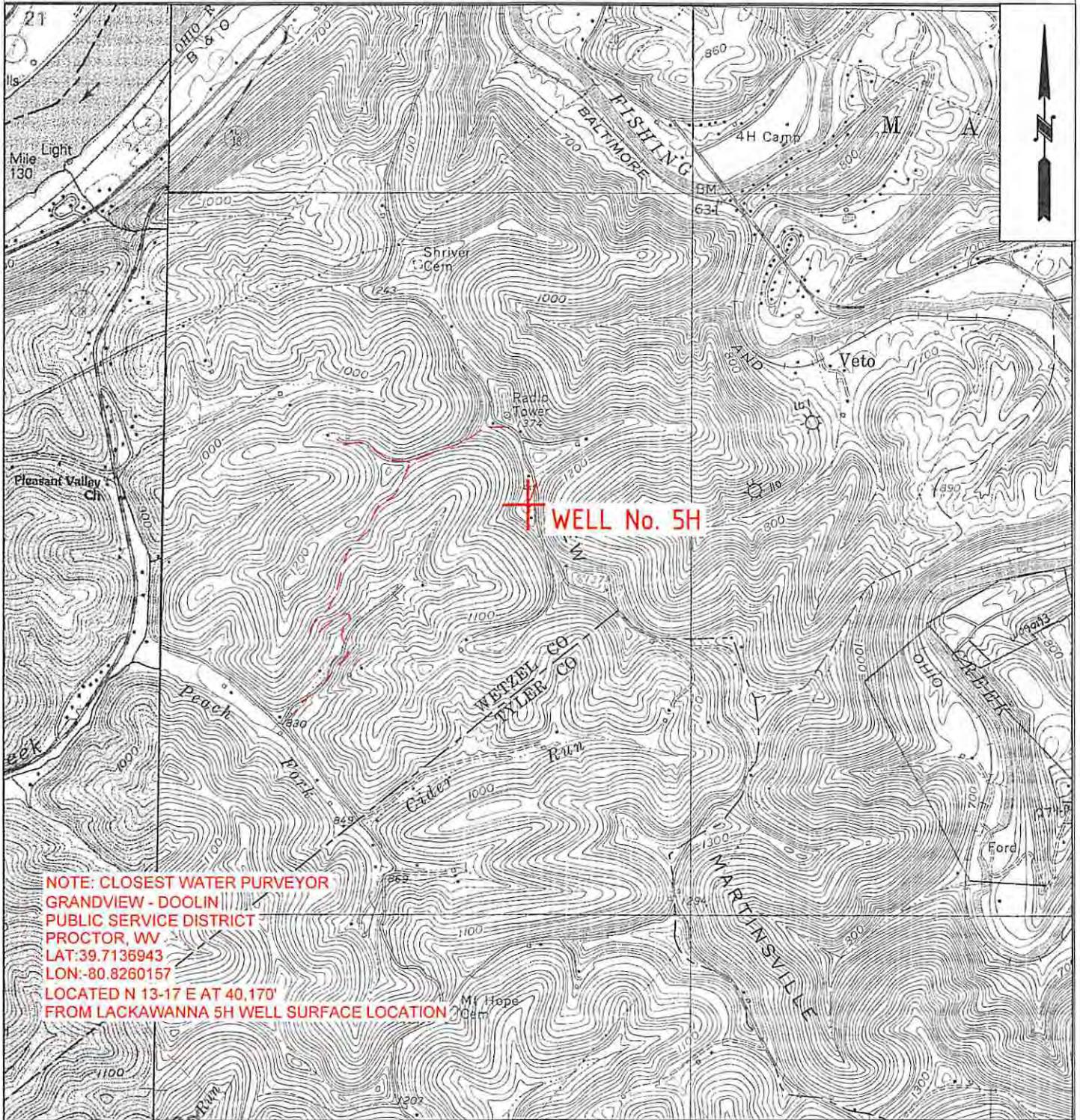
COUNTY NAME PERMIT

WW-9

PROPOSED LACKAWANNA WELL No. 5H

SUPPLEMENT PG 2

4710303050



**NOTE: CLOSEST WATER PURVEYOR
 GRANDVIEW - DOOLIN
 PUBLIC SERVICE DISTRICT
 PROCTOR, WV
 LAT: 39.7136943
 LON: -80.8260157
 LOCATED N 13-17 E AT 40,170'
 FROM LACKAWANNA 5H WELL SURFACE LOCATION**

| | | | |
|--|---|--|--|
| <p>Received Office of Oil & Gas OCT 08 2014 10-2-14</p> | <p>OPERATOR GASTAR EXPLORATION INC. 229 W Main Street, Suite 301 Clarksburg, WV 26301</p> | <p>TOPO SECTION PORTERS FALLS 7.5'</p> | <p>LEASE NAME LACKAWANNA</p> |
| | <p>SCALE: 1"=2000'</p> | <p>DATE: DATE: 09/17/14</p> | |
| | <p>W0110309</p> | | |