

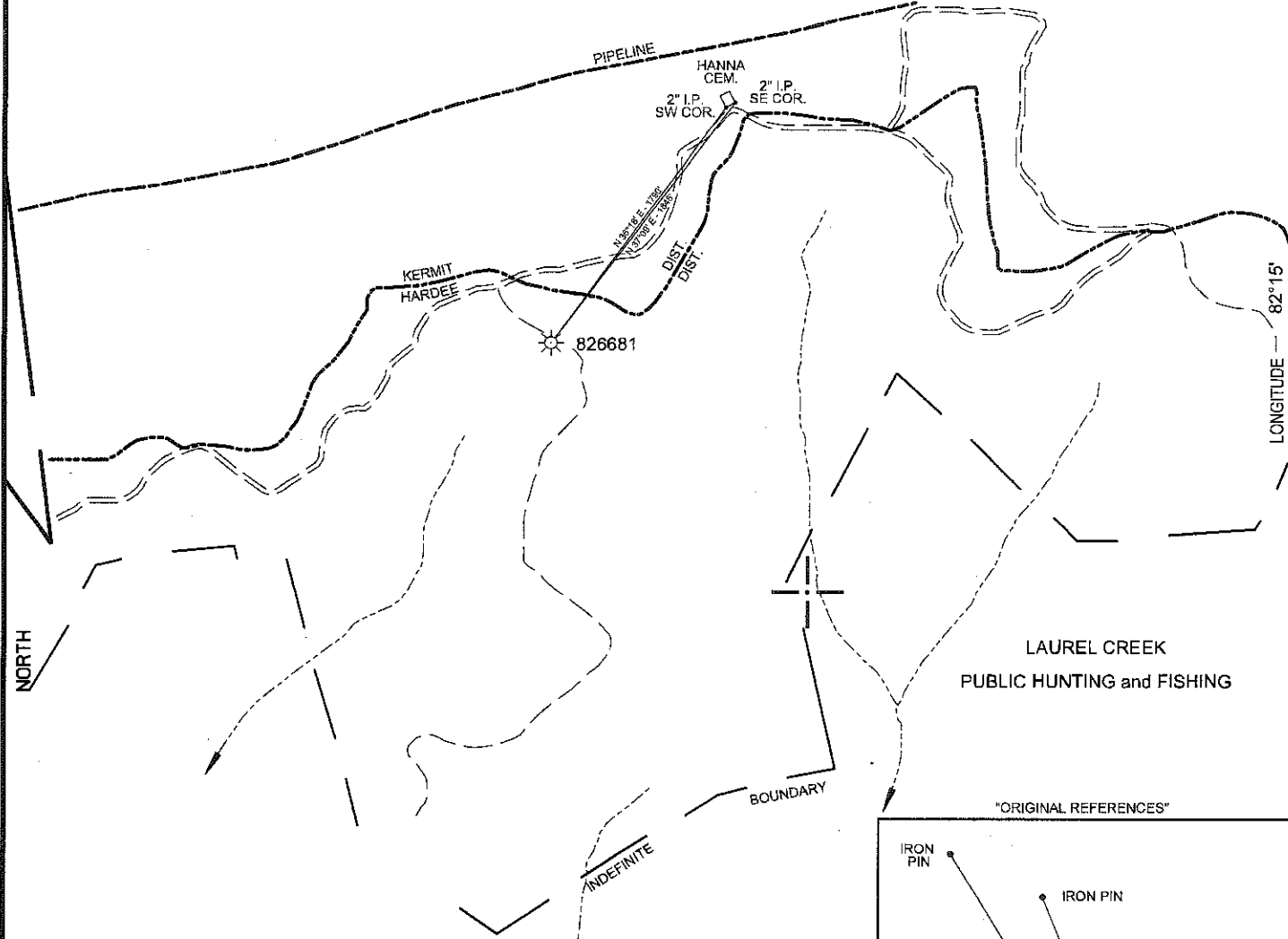
5,912'

NOTE: ALL WELLS IDENTIFIED WITHIN 2400' ARE SHOWN

LATITUDE 37°52'30"

LONGITUDE 82°15'

7,815'



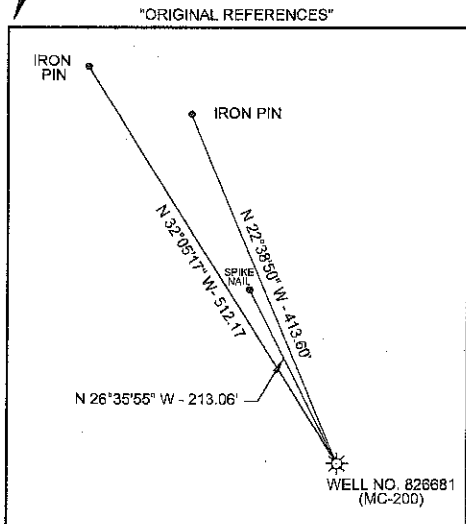
NOTE: NO BUILDING STRUCTURES IDENTIFIED WITHIN 200'

SURFACE HOLE

STATE PLANE WV
NORTH/SOUTH ZONE NAD 1927
N - 313,312.33 : E - 1,633,194.13

LATITUDE: (N) 37.8535480
LONGITUDE: (W) 82.2704673

UTM, NAD83
17 - 84W TO 78W, METERS
N - 4,190,337.255 : E - 388,244.800



"ORIGINAL REFERENCES"

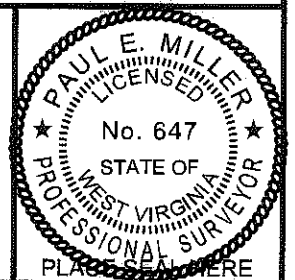
SCALE: 1"=200'

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

FILE NO. 826681.DGN
 DRAWING NO. 26681 REV.02.22.12 WO
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 : 200
 PROVEN SOURCE OF ELEVATION MAPPING 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.

(SIGNED) Paul E. Miller
 R.P.E. _____ L.L.S. 647



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OIL AND GAS DIVISION



DATE FEBRUARY 22, 20 12
 OPERATOR'S WELL NO. 826681
 API WELL NO. _____

47 059 01923
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1268' WATER SHED _____ MIDDLE FORK OF SPRUCE FORK
 DISTRICT HARDEE COUNTY MINGO
 QUADRANGLE NAUGATUCK, WV 7.5'

SURFACE OWNER JASMER, INC. ACREAGE 200
 OIL & GAS ROYALTY OWNER ALDERSON HEIRS, LLC LEASE ACREAGE 160
 LEASE NO. 1050900

PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
 STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW
 FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ WORKOVER _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION BIG LIME, INJUN, BEREA, CLEVELAND & LOWER HURON ESTIMATED DEPTH 4,130'
 WELL OPERATOR CHESAPEAKE APPALACHIA, L. L. C. DESIGNATED AGENT ERIC B. GILLISPIE
 ADDRESS PO BOX 6070, CHARLESTON, WV 26362 ADDRESS _____ SAME _____

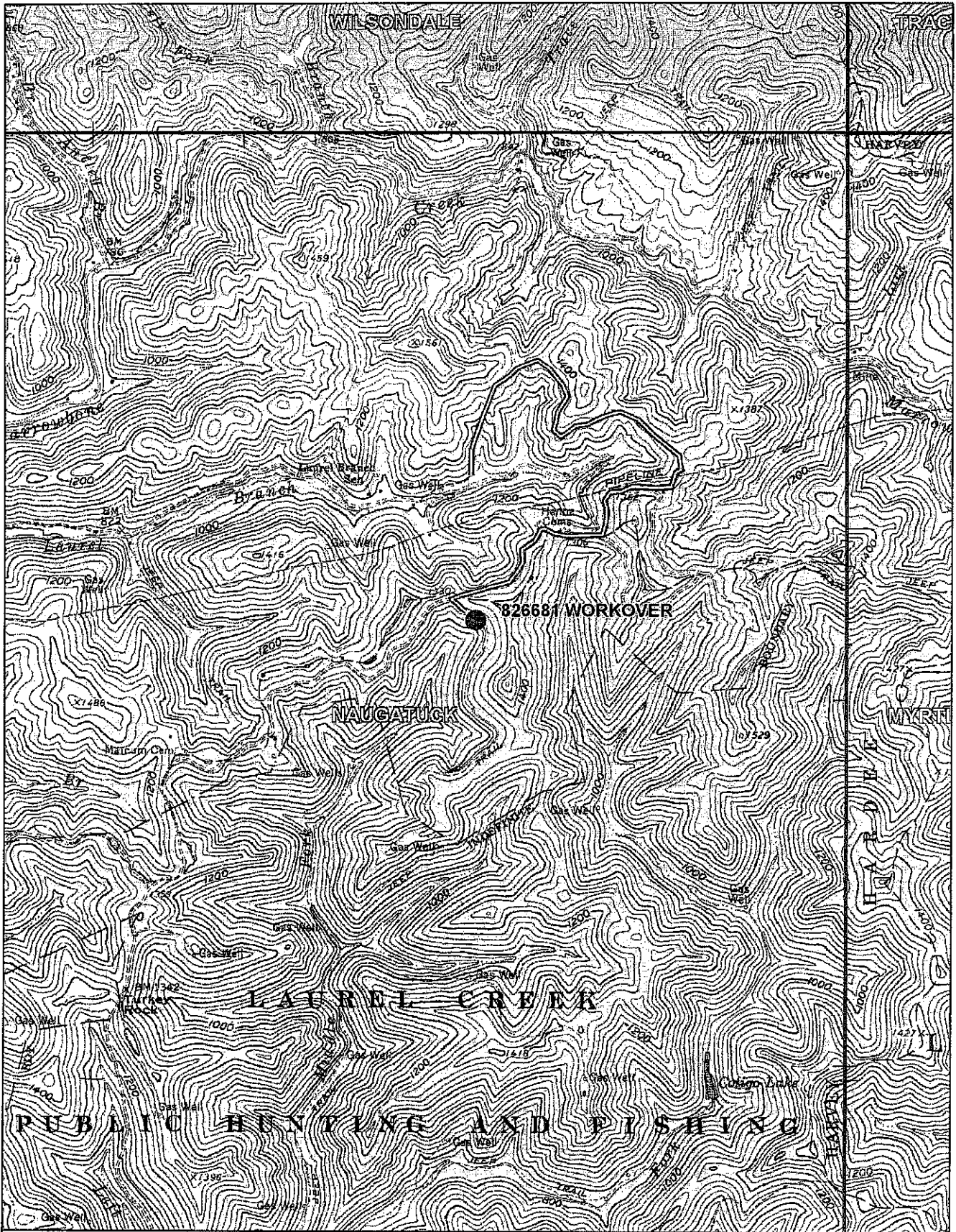
FORM WW-6

COUNTY NAME

PERMIT

04/20/2012

59-1923F



DeLorme Scale 1 : 25,000
 1" = 2,083 ft
 © 2001 DeLorme, XMap®. Data copyright of content owner.
 Zoom Level: 13-0 Datum: NAD27

0 200 400 600 800 1000
 0 200 400 600 800 1000
 ft m

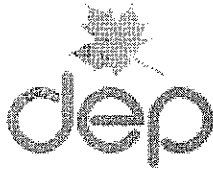
TN
 MN
 63°W

Office of Oil & Gas

FEB 29 2012

WV Department of Environmental Protection

04/20/2012



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

April 10, 2012

WELL WORK PERMIT

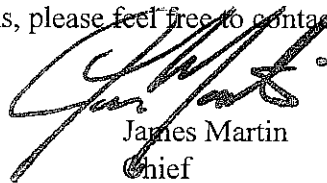
Fracture

This permit, API Well Number: 47-5901923, issued to CHESAPEAKE APPALACHIA, L.L.C., 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: 826681
Farm Name: JASMER, INC
API Well Number: 47-5901923
Permit Type: Fracture
Date Issued: 04/10/2012

Promoting a healthy environment.

04/20/2012