

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

Horizontal Well

This permit, API Well Number: 47-103259, issued to CNX GAS COMPANY LLC, 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.

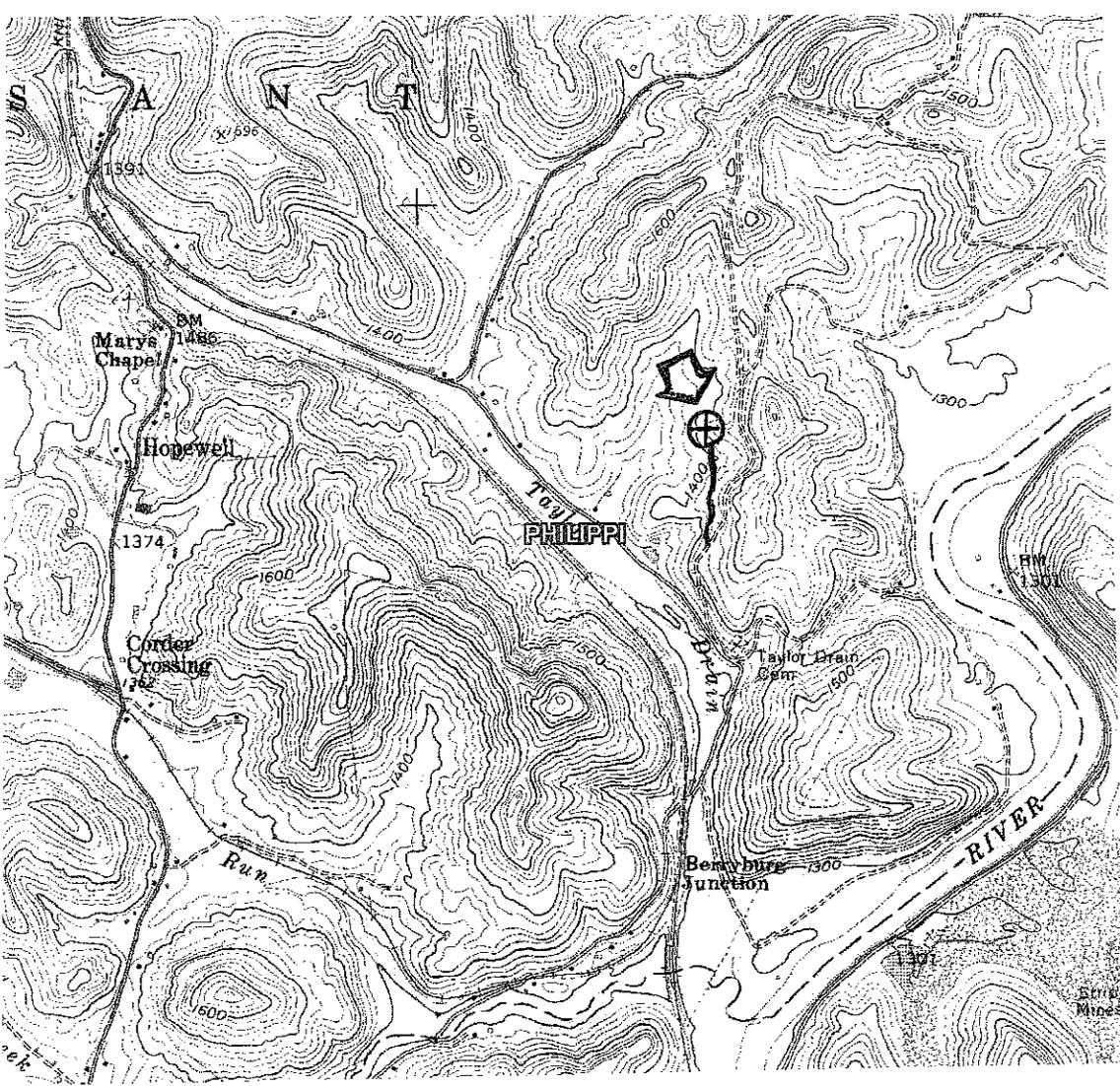
Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: PHL28AHS
Farm Name: MCBEE, ROBERT
API Well Number: 47-103259
Permit Type: Horizontal Well
Date Issued: 04/10/2012

Promoting a healthy environment.

1-03259H



DRAWINGS TO ACCOMPANY FORM WW-9

CNX GAS COMPANY LLC

P. O. BOX 1248

JANE LEW, WV 26378

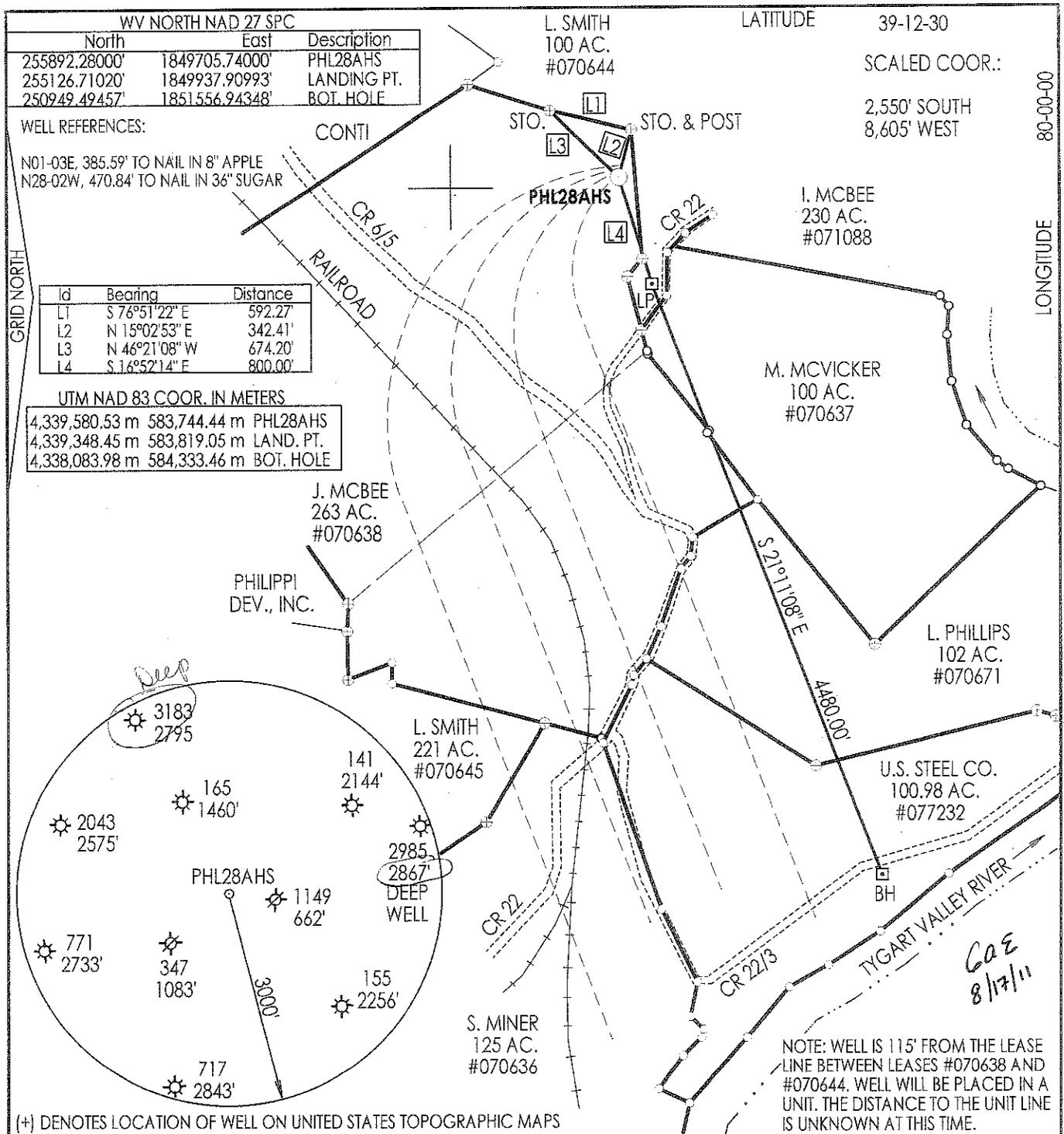
WATERSHED: TAYLOR DRAIN

DISTRICT: PLEASANT COUNTY: BARBOUR

QUADRANGLE: PHILIPPI WELL NO.: PHL28AHS

DATE: 08/02/11 PAGE of

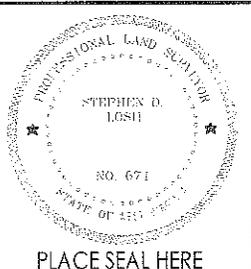
LAND SURVEYING SERVICES
 21 CEDAR LANE
 BRIDGEPORT, WV 26330
 PHONE: 304-842-2018 OR 5762



FILE NUMBER: _____
 DRAWING NUMBER: CGCPHL28AHS.PCS
 SCALE: 1" = 1000'
 MINIMUM DEGREE OF ACCURACY: CENTIMETER
 PROVEN SOURCE OF ELEVATION: DGPS SURVEY
RTK CENTIMETER SYSTEM

I, THE UNDERSIGNED, HEREBY STATE 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 ENERGY.

(SIGNED) _____
 STEPHEN D. LOSH, P.S. #674



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 #10 McJUNKIN ROAD
 NITRO, WV 25143-2506

LAND SURVEYING SERVICES
 21 CEDAR LANE, BRIDGEPORT, WV 26330
 PHONE: 304-842-2018 OR 842-5762

DATE: AUGUST 02, 2011
 OPERATORS WELL NO.: PHL28AHS
 API WELL NO. 47-001-0325914
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL CBM
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1423' (GROUND) 1412' (AS BUILT) WATERSHED TAYLOR DRAIN
 DISTRICT PLEASANT COUNTY BARBOUR
 QUADRANGLE PHILIPPI LEASE NUMBER SEE ABOVE

SURFACE OWNER ROBERT L. MCBEE ACREAGE 71.41 (19-8.1)
 OIL & GAS ROYALTY OWNER J. MCBEE, ET. AL. LEASE ACREAGE 1,011.98

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

TARGET FORMATION ORISKANY, MARCELLUS PLUG & ABANDON CLEAN OUT & REPLUG
 ESTIMATED DEPTH TVD = 7,800' TMD = 13,500'

WELL OPERATOR CNX GAS COMPANY LLC DESIGNATED AGENT KENT WRIGHT
 ADDRESS P. O. BOX 1248 JANE LEW, WV 26378 ADDRESS P. O. BOX 1248 JANE LEW, WV 26378

COUNTY NAME: BARBOUR
 PERMIT: _____

HAESSLY LAND &
TIMBER, LLC.
615 ACRES±

MAXWELL LEASE 2,400 ACRES± WELL NO. WV 512454

WELL NO. WV 512454
BOTTOM HOLE

WELL NO. WV 512454
STATE PLANE COORDINATES
NORTH ZONE (NAD 27)

N. 260,880
E. 1,634,672

LAT=(N) 39.20907
LONG=(W) 80.78929

UTM (NAD 83)
N. 4,340,008
E. 518,207

WELL NO. WV 512454
BOTTOM HOLE
STATE PLANE COORDINATES
NORTH ZONE (NAD 27)

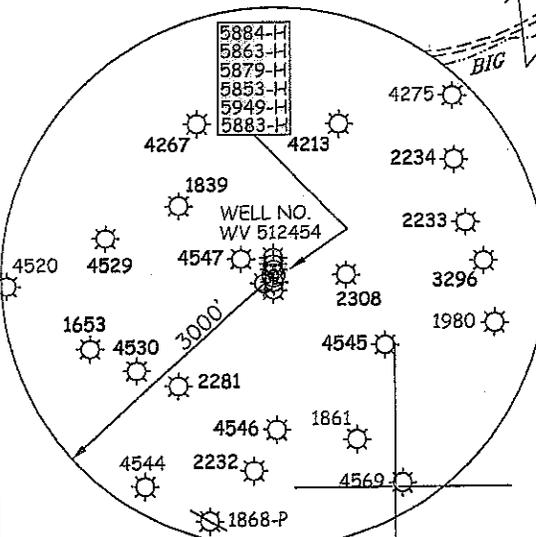
N. 262,549
E. 1,631,551

LAT=(N) 39.21353
LONG=(W) 80.80039

UTM (NAD 83)
N. 4,340,501
E. 517,248

I.L. MORRIS
P/O 6,603.75 ACRES±

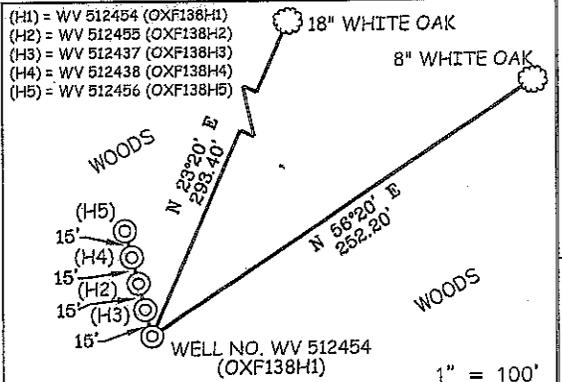
I.L. MORRIS
P/O 6,603.75 ACRES±



NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD 27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 04/29/09.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 28 PAGE 207 & 210 AND LEASE BOOK 14 PAGE 376.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIDGE COUNTY IN JULY, 2008.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).
6. ORIGINAL PLAT DATED 05/28/09 WAS UPDATED 02/22/12 TO REFLECT CURRENT SPOT CIRCLE, OWNERSHIP, TARGET FORMATION AND WELL TYPE.

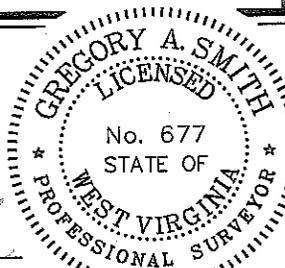
REFERENCES



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. 677

Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE FEBRUARY 22, 20 12
OPERATORS WELL NO. WV 512454
API WELL NO. 47 - 017 - 05853H
STATE COUNTY PERMIT
Revised

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 3959P512454R (275-68)
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 1,000'

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

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

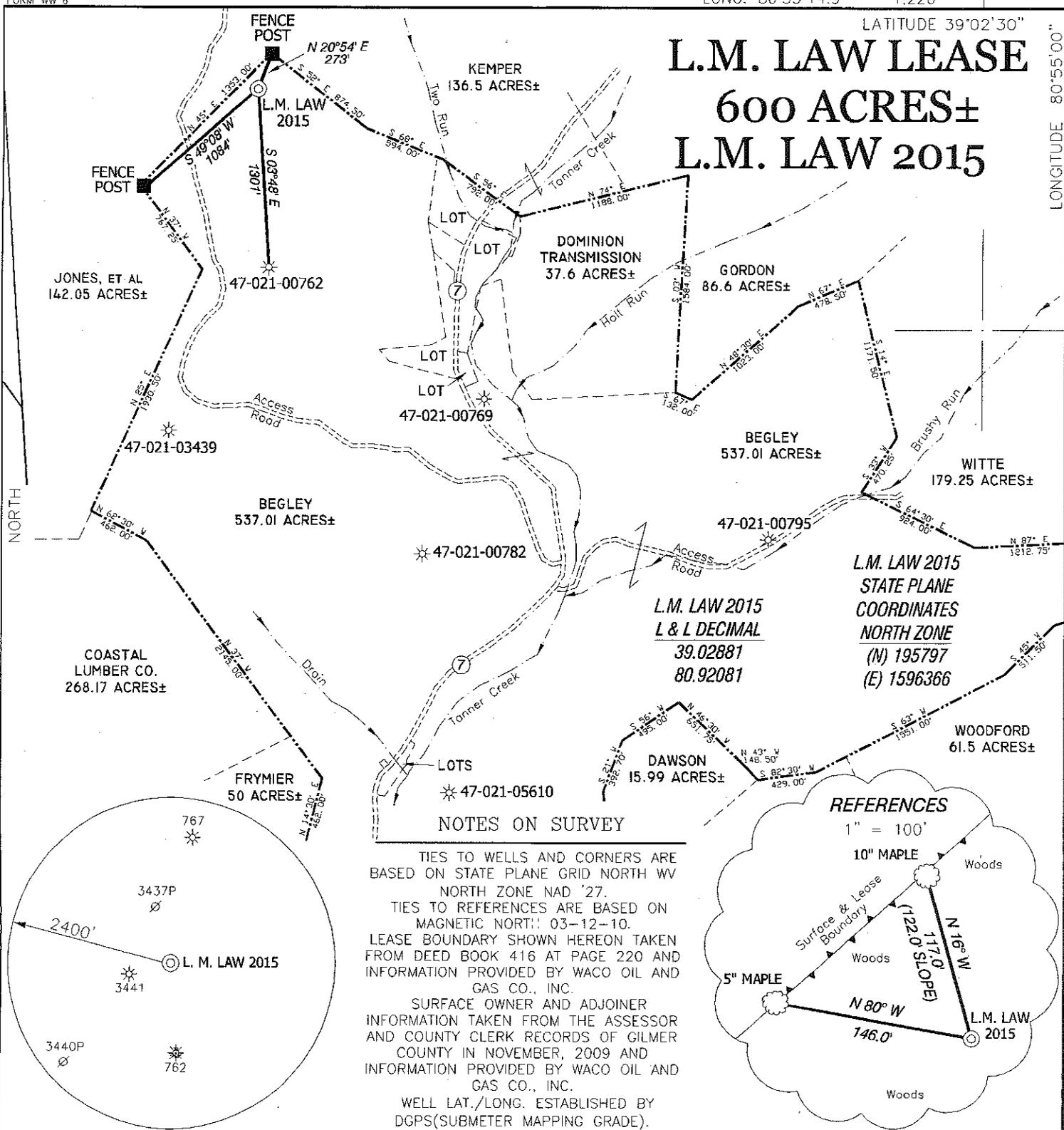
LOCATION: ELEVATION 1,075' WATERSHED BIG RUN
DISTRICT SOUTHWEST COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5'

SURFACE OWNER I.L. MORRIS ACREAGE 6,603.75±
ROYALTY OWNER WBM HEIRS PROPERTIES, LLC. LEASE ACREAGE 2,400±
PROPOSED WORK: LEASE NO. 090490
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 ONONDAGA
ESTIMATED DEPTH _____

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY
ADDRESS 1710 PENNSYLVANIA AVENUE ADDRESS 1710 PENNSYLVANIA AVENUE
CHARLESTON, WV 25302 CHARLESTON, WV 25302

COUNTY NAME
PERMIT

L.M. LAW LEASE 600 ACRES± L.M. LAW 2015

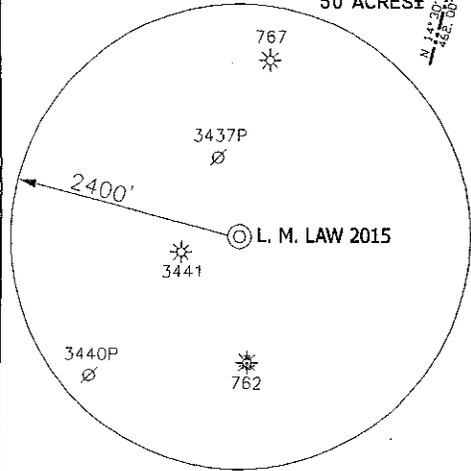
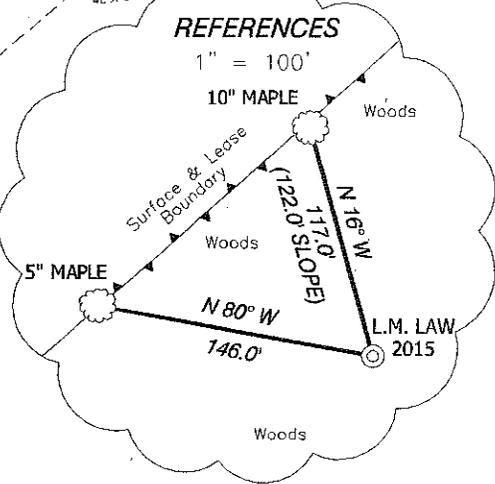


L.M. LAW 2015
STATE PLANE
COORDINATES
NORTH ZONE
(N) 195797
(E) 1596366

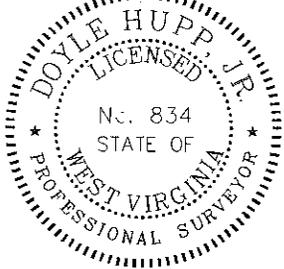
L.M. LAW 2015
L & L DECIMAL
39.02881
80.92081

NOTES ON SURVEY

TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD '27.
 TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 03-12-10.
 LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 416 AT PAGE 220 AND INFORMATION PROVIDED BY WACO OIL AND GAS CO., INC.
 SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF GILMER COUNTY IN NOVEMBER, 2009 AND INFORMATION PROVIDED BY WACO OIL AND GAS CO., INC.
 WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).



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 MARCH 17, 20 10
 OPERATORS WELL NO. L.M. LAW 2015
 API WELL NO. 47-021-05704
 STATE COUNTY PERMIT

P.S. 834

 HUPP Surveying & Mapping
 P.O. Box 647 Grantsville, WV 26147
 (304) 354-7035 EMAIL: hupp@frontiernet.net

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. W1930 (BK 44-21)
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER GRADE) SCALE 1" = 1000'

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

WELL TYPE : OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION :
 ELEVATION 1,122' WATERSHED TANNER CREEK
 DISTRICT DEKALB COUNTY GILMER QUADRANGLE BURNT HOUSE 7.5'

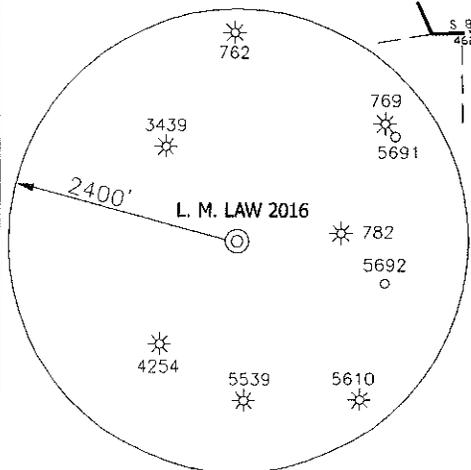
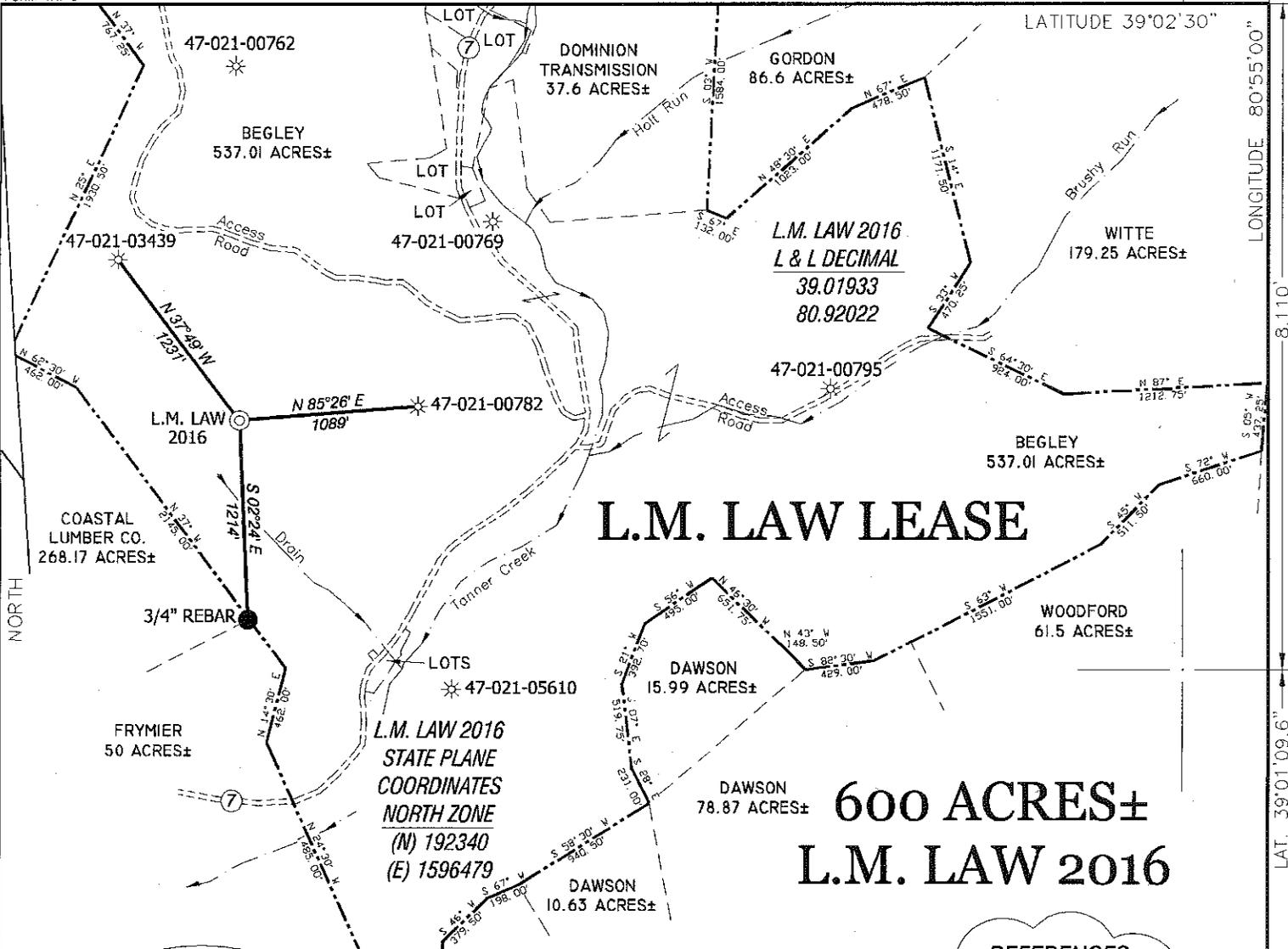
SURFACE OWNER ROBERT & NORMA BEGLEY ACREAGE 537.01±
 ROYALTY OWNER MICHAEL E. MINNEY, et al LEASE ACREAGE 600±
 PROPOSED WORK : LEASE NO.

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 DEVONIAN SHALE
 ESTIMATED DEPTH 5900'

WELL OPERATOR WACO OIL & GAS CO., INC. DESIGNATED AGENT STEPHEN E. HOLLOWAY
 ADDRESS P.O. BOX 397 GLENVILLE, WV 26351 ADDRESS P.O. BOX 397 GLENVILLE, WV 26351

COUNTY NAME
 PERMIT



NOTES ON SURVEY

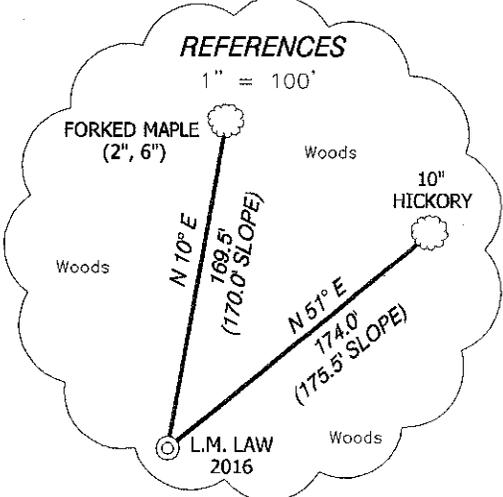
TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD '27.

TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 03-12-10.

LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 416 AT PAGE 220 AND INFORMATION PROVIDED BY WACO OIL AND GAS CO., INC.

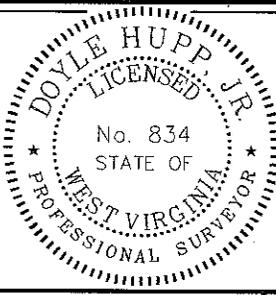
SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF GILMER COUNTY IN NOVEMBER, 2009 AND INFORMATION PROVIDED BY WACO OIL AND GAS CO., INC.

WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).



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. 834 *Doyle Hupp Jr.*
HUPP Surveying & Mapping
P.O. Box 647 Grantsville, WV 26147
(304) 354-7035 EMAIL: hupp@frontiernet.net



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE MARCH 17, 2010
OPERATORS WELL NO. L.M. LAW 2016
API WELL NO. 47-021-05705
STATE COUNTY PERMIT

CANCELLED

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. W1930 (BK 44-21)
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER GRADE) SCALE 1" = 1000'

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

WELL TYPE : OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

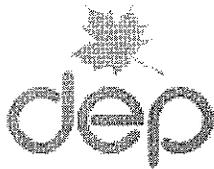
LOCATION : ELEVATION 965' WATERSHED TANNER CREEK
DISTRICT DEKALB COUNTY GILMER QUADRANGLE BURNT HOUSE 7.5'

SURFACE OWNER ROBERT & NORMA BEGLEY ACREAGE 537.01±
ROYALTY OWNER MICHAEL E. MINNEY, et al LEASE ACREAGE 600±

PROPOSED WORK : LEASE NO. _____
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 DEVONIAN SHALE
ESTIMATED DEPTH 5900'

WELL OPERATOR WACO OIL & GAS CO., INC. DESIGNATED AGENT STEPHEN E. HOLLOWAY
ADDRESS P.O. BOX 397 GLENVILLE, WV 26351 ADDRESS P.O. BOX 397 GLENVILLE, WV 26351

COUNTY NAME
PERMIT



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

Vertical Well

This permit, API Well Number: 47-2105741, issued to HORIZON ENERGY CORPORATION, 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: J.S. WITHERS NO. 1-R
Farm Name: CENTRAL ENERGY CORP.

API Well Number: 47-2105741

Permit Type: Vertical Well

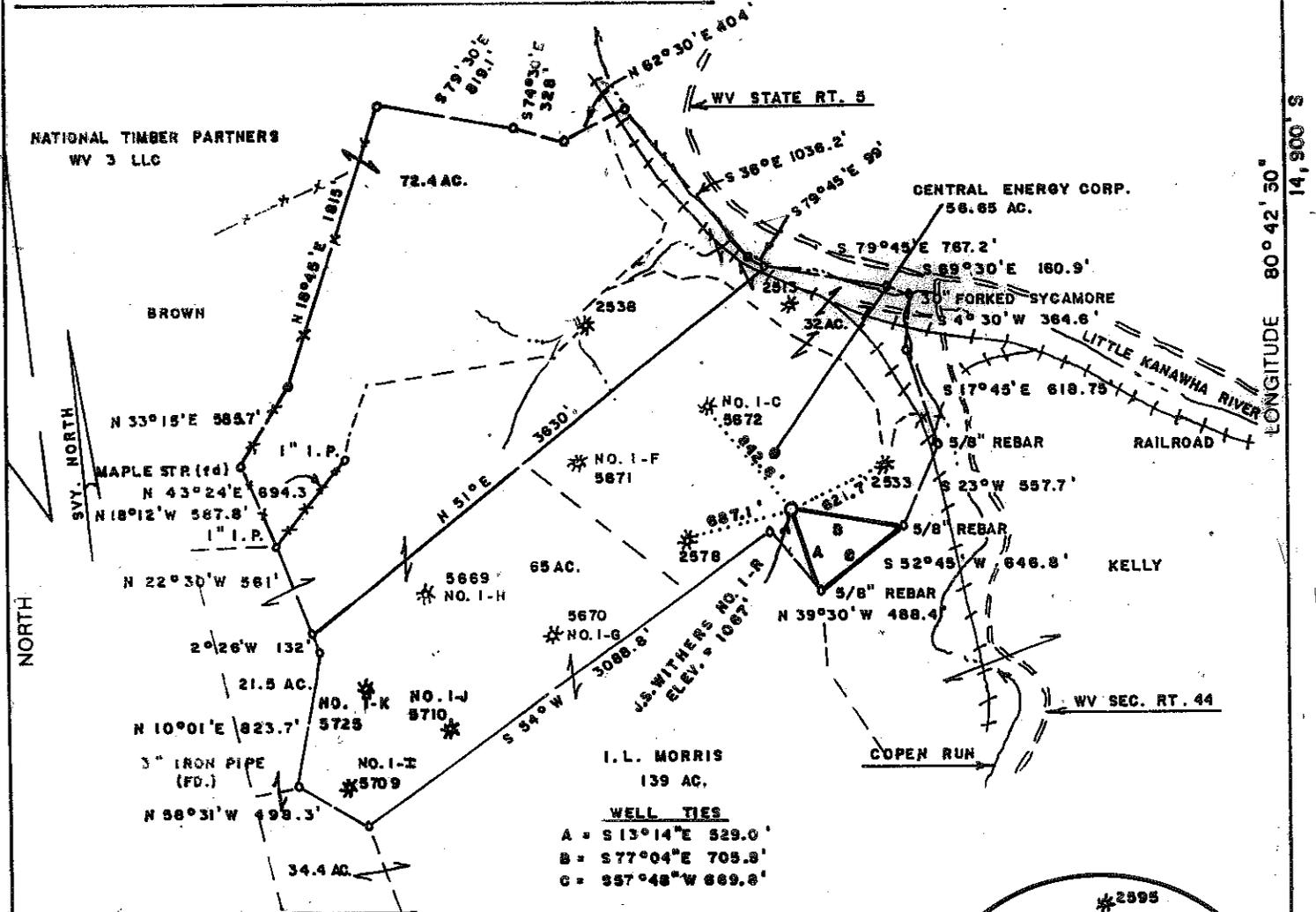
Date Issued: 04/10/2012

Promoting a healthy environment.

217057A

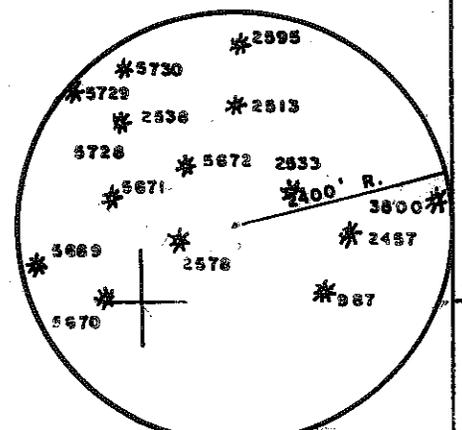
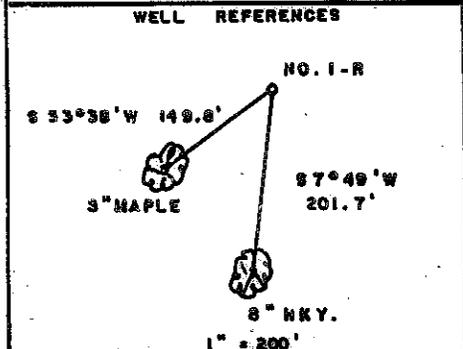


J. S. WITHERS LEASE 250.20 AC.



WELL TIES
 A = S 13°14'E 529.0'
 B = S 77°04'E 705.8'
 C = S 57°48"W 669.8'

J.S. WITHERS NO. 1-R
 UTM ZONE 17-9
 N = 4,303,030
 E = 0,524,299



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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION BM - NORTH OF LEASE
 ELEV. = 756'

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 ENERGY.
 (SIGNED) Mark C. Echard
 R.P.E. _____ L.L.S. 490



STATE OF WEST VIRGINIA
 Division of Environmental Protection
 OFFICE OF OIL AND GAS

DATE FEBRUARY 29, 2012
 OPERATOR'S WELL NO. J.S. WITHERS NO. 1-R
 API WELL NO. 47 021 05741

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW

LOCATION: ELEVATION 1067' WATERSHED LITTLE KANAWHA RIVER
 DISTRICT GLENVILLE COUNTY GILMER
 QUADRANGLE GILMER 7.5'

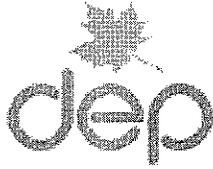
SURFACE OWNER CENTRAL ENERGY CORP. ACREAGE 58.65
 OIL & GAS ROYALTY OWNER J.S. WITHERS HRS. ET AL LEASE ACREAGE 250.2
 LEASE NO. _____

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

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION 5TH SAND ESTIMATED DEPTH 3100'
 WELL OPERATOR HORIZON ENERGY CORP. DESIGNATED AGENT ROBERT R. JONES II
 ADDRESS SAND FORK ROAD BOX 111 SAND FORK, WV 26430

FORM WW-6

COUNTY NAME
 PERMIT



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 13, 2012

WELL WORK PERMIT

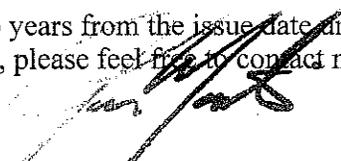
Vertical Well

This permit, API Well Number: 47-2105742, issued to HORIZON ENERGY CORPORATION, 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.

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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.

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James Martin
Chief

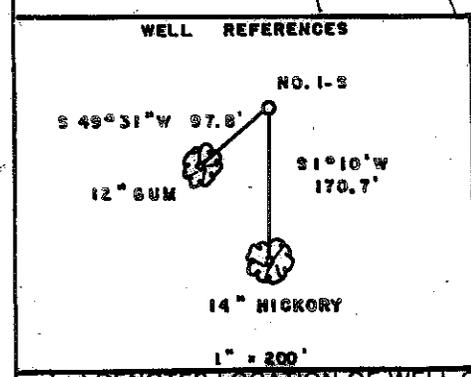
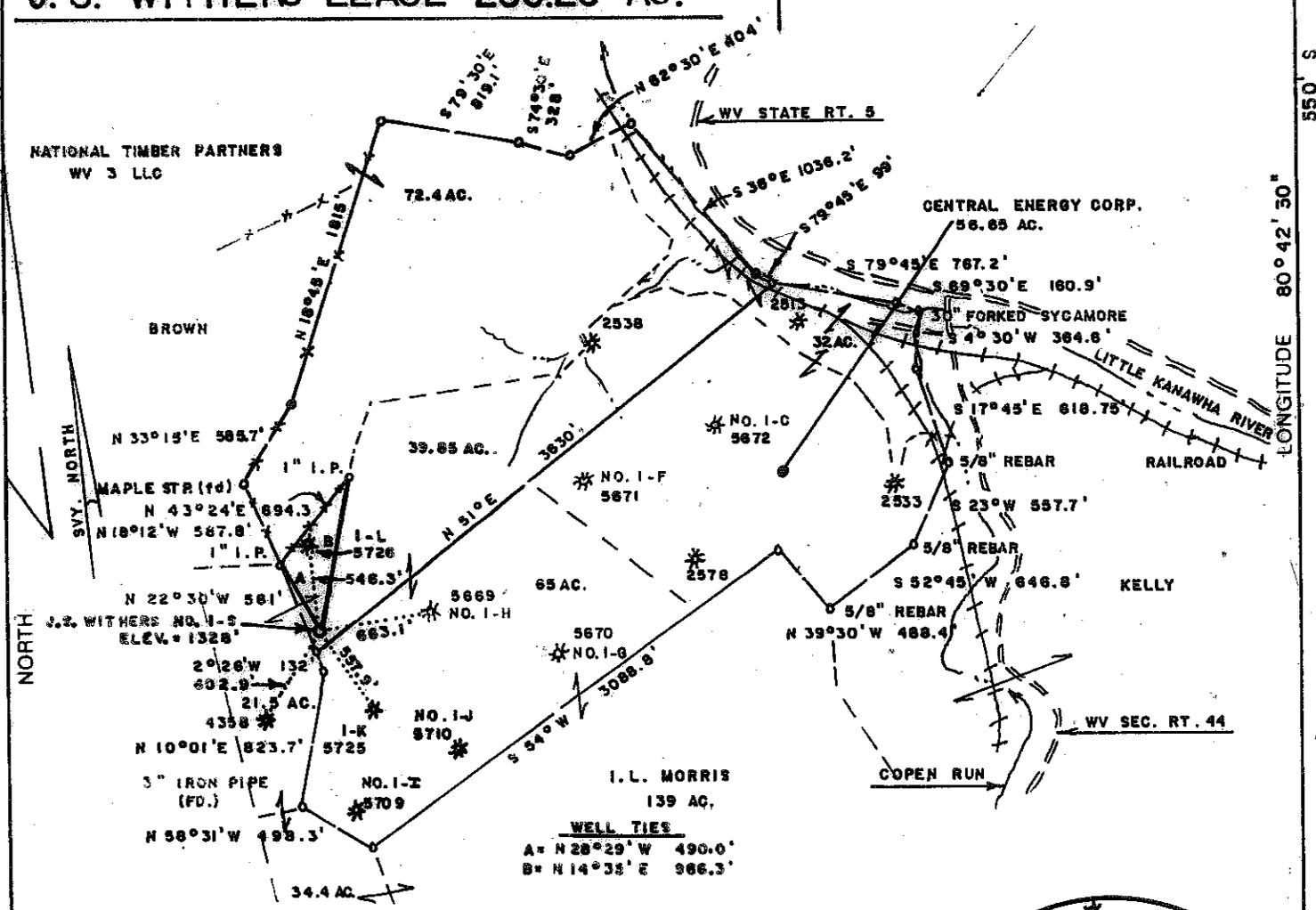
Operator's Well No: J.S. WITHERS NO. 1-S
Farm Name: MORRIS, I.L.
API Well Number: 47-2105742
Permit Type: Vertical Well
Date Issued: 04/13/2012

Promoting a healthy environment.

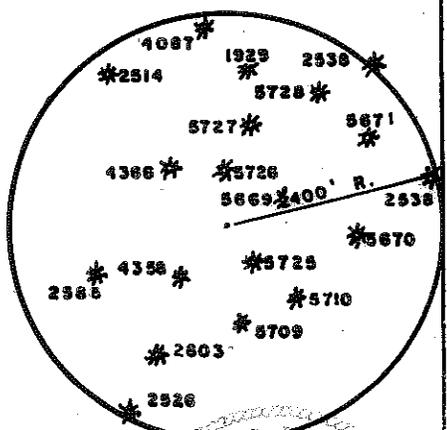


J. S. WITHERS LEASE 250.20 AC.

6300' W
LATITUDE 38°52'30"



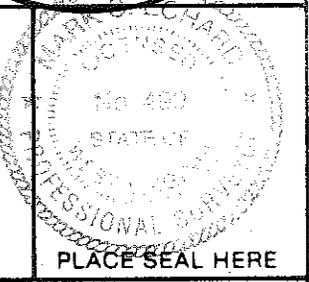
J.S. WITHERS NO. 1-S
UTM ZONE 17-S
N = 4,302,811
E = 0,523,408



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

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION BM - NORTH OF LEASE
ELEV. = 756'

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 ENERGY.
(SIGNED) Mark C. Echard
R.P.E. _____ L.L.S. 490



STATE OF WEST VIRGINIA
Division of Environmental Protection
OFFICE OF OIL AND GAS



DATE FEBRUARY 29, 2012
OPERATOR'S WELL NO. J.S. WITHERS NO. 1-S
API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
LOCATION: ELEVATION 1326' WATERSHED LITTLE KANAWHA RIVER
DISTRICT GLENVILLE COUNTY GILMER
QUADRANGLE BURNSVILLE 7.5'

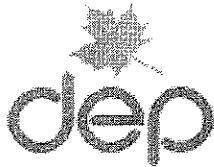
SURFACE OWNER I. L. MORRIS ACREAGE 39.85
OIL & GAS ROYALTY OWNER J.S. WITHERS HRS. ET AL LEASE ACREAGE 250.2

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

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
TARGET FORMATION 5TH SAND ESTIMATED DEPTH 3325'
WELL OPERATOR HORIZON ENERGY CORP DESIGNATED AGENT ROBERT R. JONES II
ADDRESS SAND FORK ROAD BOX 111 ADDRESS SAND FORK ROAD BOX 111
SAND FORK, WV 26430 SAND FORK, WV 26430

FORM WW-6

COUNTY NAME
PERMIT



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

Drilling Deeper

This permit, API Well Number: 47-3305549, issued to ANTERO RESOURCES APPALACHIAN CORPORATION, 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.

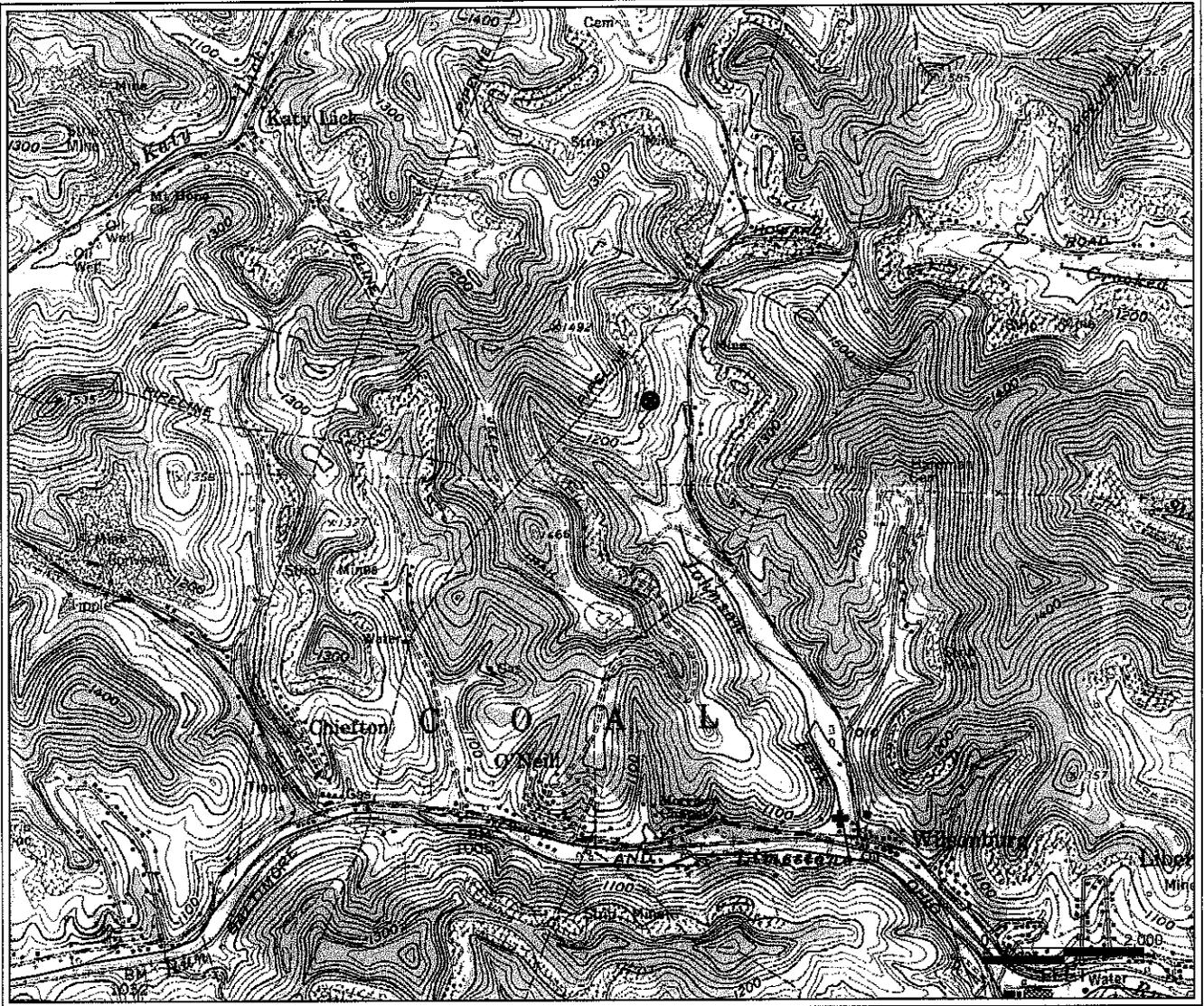
In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

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: WILLIAMS UNIT 1H
Farm Name: WILLIAMS, EDGAR - ESTATE
API Well Number: 47-3305549
Permit Type: Drilling Deeper
Date Issued: 04/10/2012

Promoting a healthy environment.



PETRA 11/10/2009 10:30:32 AM

RECEIVED
 OFFICE OF OIL & GAS
 JAN 09 2012
 WV DEPARTMENT OF
 ENVIRONMENTAL PROTECTION

Antero Resources Corporation
APPALACHIAN BASIN
Williams Unit 1H
Harrison County
REMARKS QUADRANGLE: WOLF SUMMIT WATERSHED: JOHNSON FORK DISTRICT: COAL
January 9, 2009

Antero Resources
Well No. Williams Unit 1H
Antero Resources
Appalachian Corporation

8,728' to Top Hole LATITUDE 39 - 20 - 00

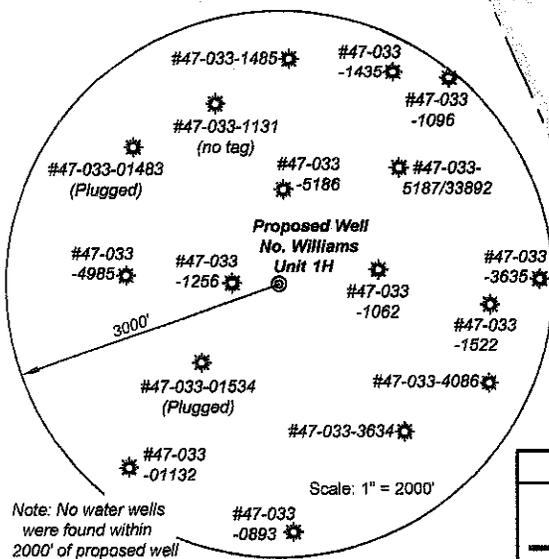
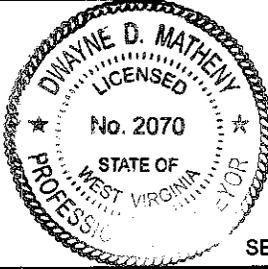


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Dwayne D. Matheny, P.S. 2070

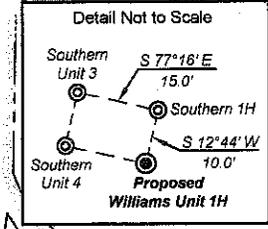
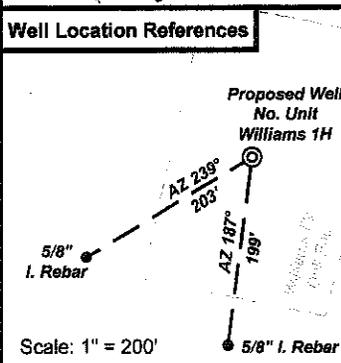
Tax Map 285 Parcels			
Par	Owner	Bk/Pg	
1	Burley K. Burley K. Jr. & Brenda L. Myers	1362/800	

LINE	BEARING	DISTANCE
L1	S 74°27' E	166.3'
L2	S 82°25' W	1090.4'



Notes:
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well Williams Unit 1H Top Hole coordinates are
 N: 295,548.63 Latitude: 39°18'28.48"
 E: 1,743,771.04 Longitude: 80°24'19.90"
 Bottom Hole coordinates are
 N: 286,333.63 Latitude: 39°16'57.86"
 E: 1,748,454.10 Longitude: 80°23'19.16"
UTM Zone 17, NAD 1983
 Top Hole Coordinates: Bottom Hole Coordinates:
 N: 4,351,125.018m N: 4,348,341.356m
 E: 551,268.766m E: 552,742.231m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

- Legend**
- ⊙ Proposed gas well
 - Found monument, as noted
 - Surface boundary (approx.)
 - - - Interior surface tracts (approx.)
 - Existing Road
 - - - Existing Creek or Drain



LEASE TABLE

Oil & Gas Royalty Owner	Acres
Connie Moore & Diane Elliot	2.37
Walter Earl Jr. & Orpha R Swiger	<1.0
John R. Clark	1.93
David D. & Heather L. Bartlett, et al	2.13
Hellin Davis, et al	0.02
Michael F. Pleasants Sr., et al	2.37

FILE NO: **128-36-C-09**
 DRAWING NO: **128-09_Williams 1H**
 SCALE: **1" = 1200'**
 MINIMUM DEGREE OF ACCURACY: **Submeter**
 PROVEN SOURCE OF ELEVATION: **CORS Glenville, WV**

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

DATE: **December 16 20 11**
 API WELL NO: **Williams Unit 1H**
47 - 033 - 05549D
 STATE COUNTY PERMIT
 OPERATOR'S WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: **1191'** WATERSHED **Johnson Fork**
 QUADRANGLE: **Wolf Summit** DISTRICT: **Coal** COUNTY: **Harrison**
 SURFACE OWNER: **Edgar H. Williams Estate** Connie Moore & Diane Elliot; John R. Clark; p/o Paul S. Hornor; David D. & Heather L. Bartlett, et al; Michael F. Pleasants Sr., et al ACREAGE: **168.02** 2.13; 2.37; 2.37; 0.02; 1.93
 OIL AND GAS ROYALTY OWNER: **John T. Williams, et ux; Paul S. Hornor, et al; Hellin Davis, et al** CSX Transportation, Inc; EQT; Walter Earl Jr. & Orpha R Swiger LEASE NO: **p/o 052709; 072373; 3326** ACREAGE: **300; 34.4; <1.0** 288.58; 175;
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: **Marcellus Shale** ESTIMATED DEPTH: **18,000' MD**
7,100' TVD

WELL OPERATOR: **Antero Resources Appalachian Corporation** DESIGNATED AGENT: **Diana Stamper - CT Corporation System**
 ADDRESS: **1625 17th Street** ADDRESS: **5400 D Big Tyler Road**
Denver, CO 80202 **Charleston, WV 25313**

LONGITUDE 80 - 22 - 30
 9,173' to Top Hole
 18,388' to Bottom Hole
 GRID NORTH

49-02213P

4882

35'

4881

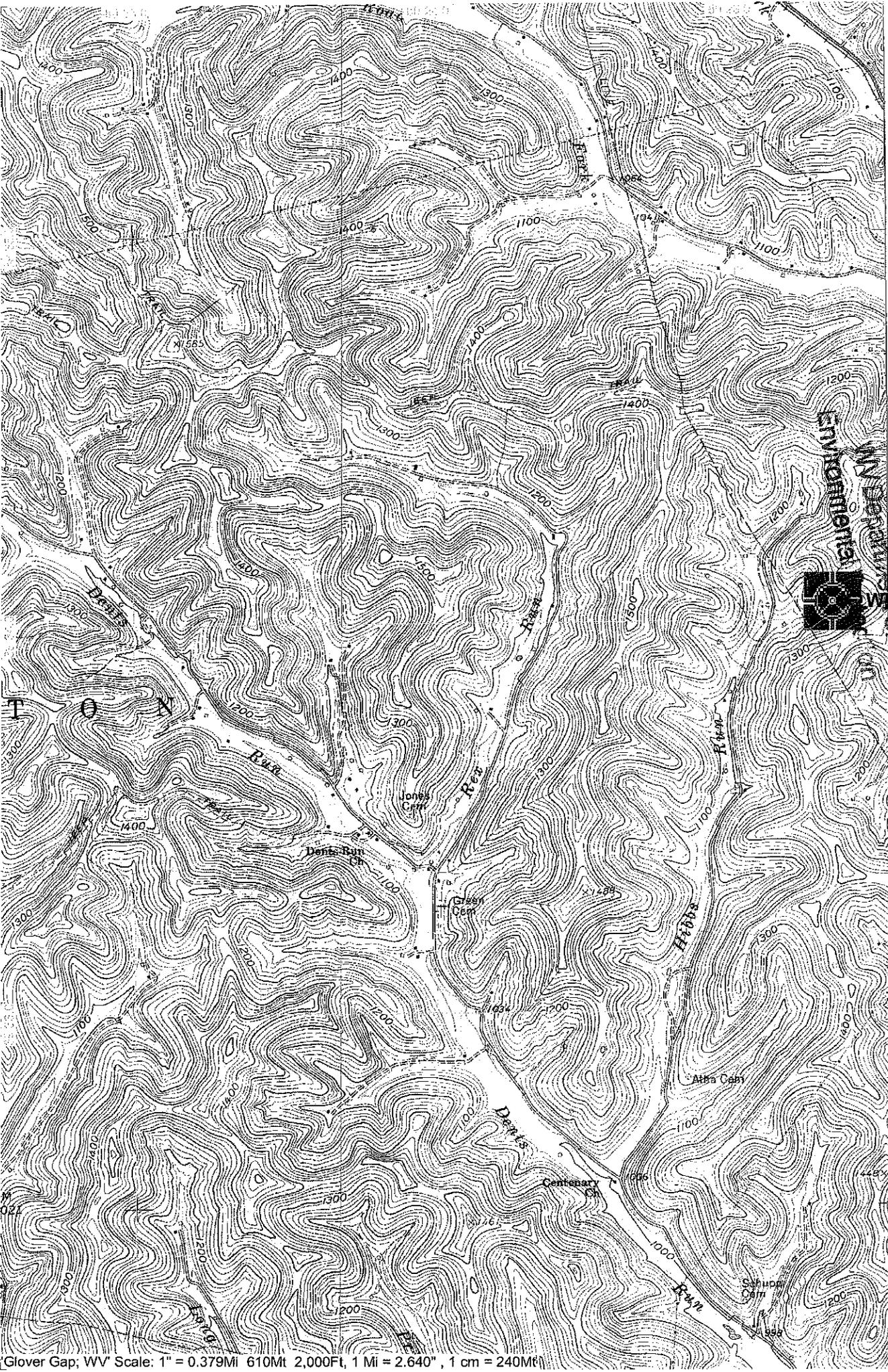
RECEIVED
Office of Oil & Gas
APR 10 2017
WELL # 5027

4880
(MANNINGTON)
4963 III SE

4878

4877

32'30"



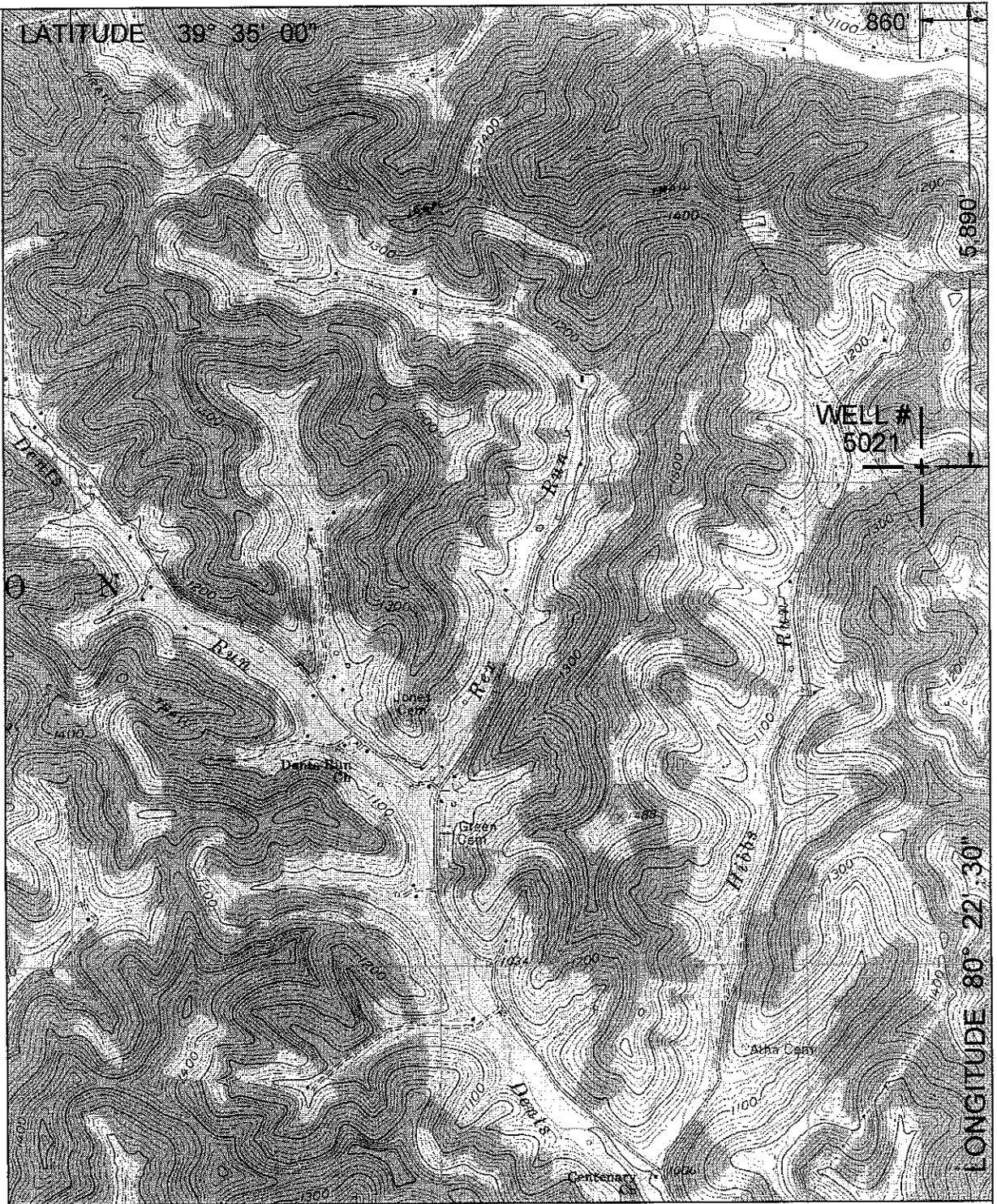
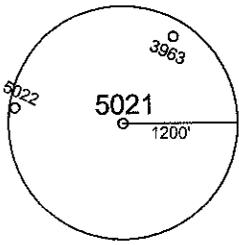
[Glover Gap, WV Scale: 1" = 0.379Mi 610Mt 2,000Ft, 1 Mi = 2.640" , 1 cm = 240Mt]

LATITUDE 39° 35' 00"

100 860

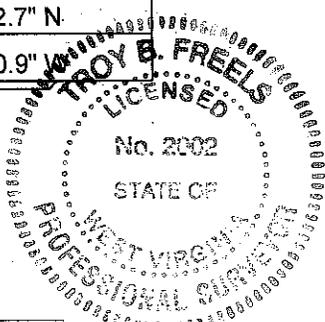
NORTH

SURROUNDING WELLS WITHIN 1200' RADIUS



LONGITUDE 80° 22' 30"

UTM Z17N NAD83 CONUS		LAT/LONG NAD27 CONUS	
NORTHING	4,379,935 M	39° 34' 02.7" N	
EASTING	553,442 M	80° 22' 40.9"	



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.
2002

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE APRIL 1, 20 12
 OPERATORS WELL NO. 5021
 API WELL NO. 47 - 49 - 02213P
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY: 1/2500
 FILE NO.: GLOVER GAP 6.DWG
 SCALE: 1"=2000'
 PROVEN SOURCE OF ELEVATION: COMPANY NETWORK TIED INTO U.S.G.S.

WV DEP
 OFFICE OF OIL AND GAS
 601 57TH ST., CHARLESTON, WV 25304



WELL TYPE: OIL GAS _____ LIQUID INJECTION _____ WASTE DISPOSAL _____ PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW

LOCATION: ELEVATION: 1216.98' WATERSHED: HIBBS RUN OF DENTS RUN OF BUFFALO CREEK

DISTRICT: MANNINGTON COUNTY: MARION QUADRANGLE: GLOVER GAP, WV 7.5'

SURFACE OWNER: CONSOLIDATION COAL COMPANY ACREAGE: 47± ACRES

ROYALTY OWNER: _____ LEASE ACREAGE: _____

PROPOSED WORK: _____ LEASE NO.: _____

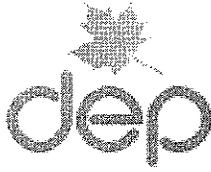
DRILL: _____ CONVERT: _____ DRILL DEEPER: _____ REDRILL: _____ FRACTURE OR STIMULATE: _____ PLUG AND ABANDON:

PLUG OFF OLD FORMATION: _____ PERFORATE NEW FORMATION: _____ CLEAN OUT AND REPLUG: _____ OTHER: _____

PHYSICAL CHANGE IN WELL (SPECIFY): _____ TARGET FORMATION: NONE ESTIMATED DEPTH: _____

WELL OPERATOR: CONSOLIDATION COAL COMPANY DESIGNATED AGENT: RONNIE HARSH
 ADDRESS: 1 BRIDGE ST., MONONGAH, WV 26554 ADDRESS: 1 BRIDGE ST., MONONGAH, WV 26554

COUNTY NAME PERMIT



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

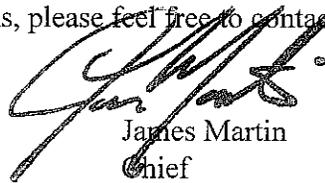
Fracture

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.

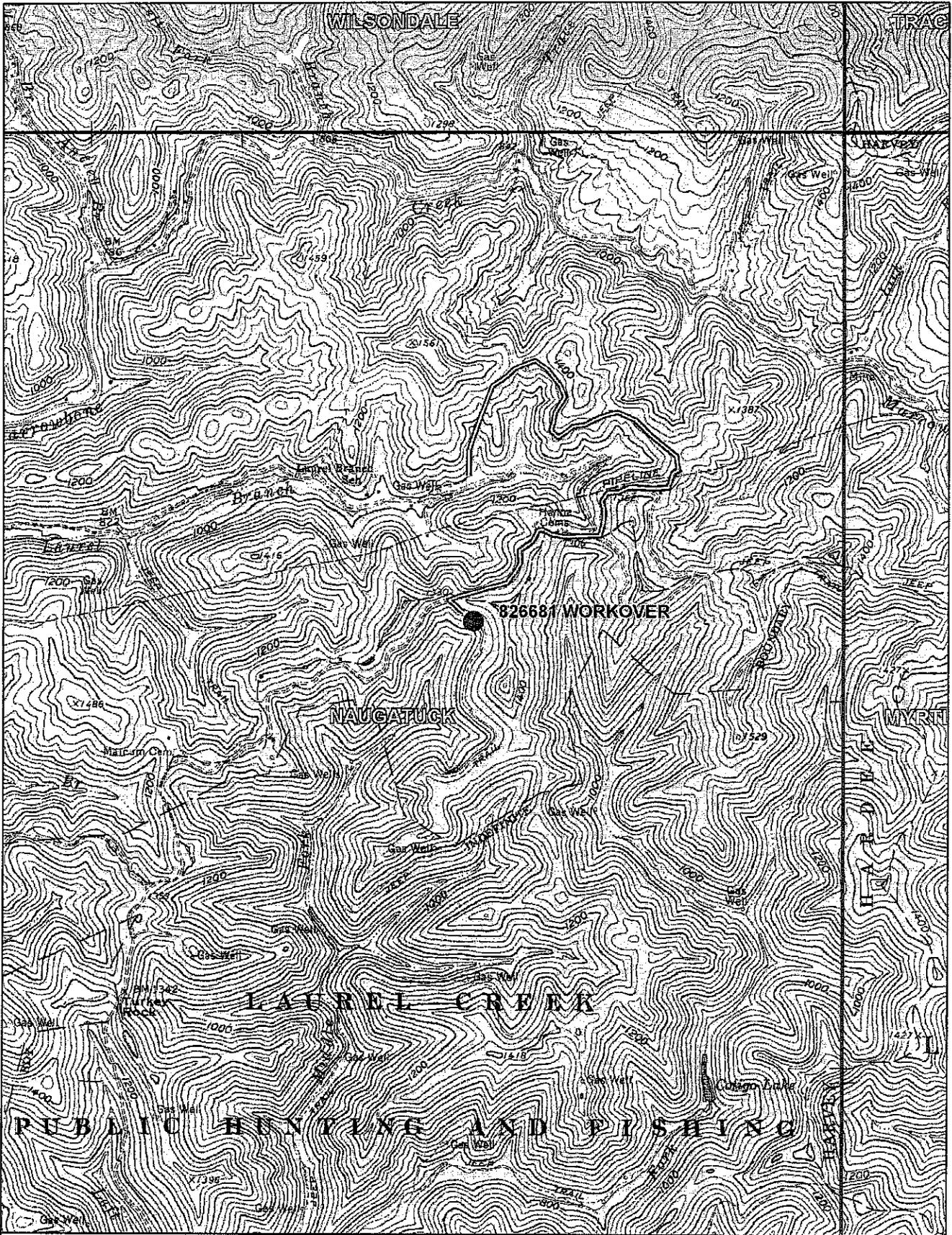


James Martin
Chief

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.

59-1923F



Office of CWA/Las

FEB 29 2012

WV Department of Environmental Protection

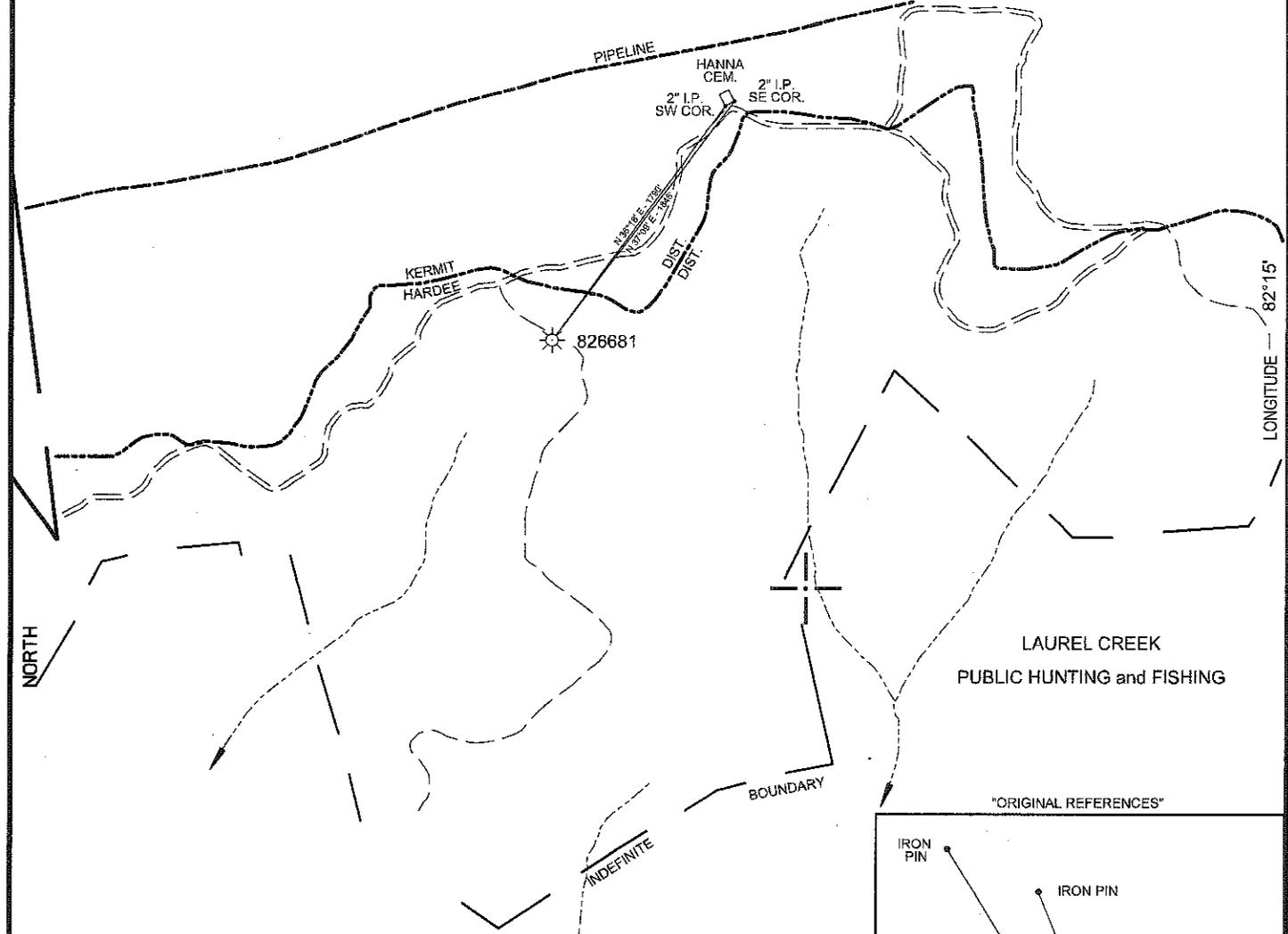
NOTE: ALL WELLS IDENTIFIED WITHIN 2400' ARE SHOWN

LATITUDE 37°52'30"

5,912'

LONGITUDE 82°15'

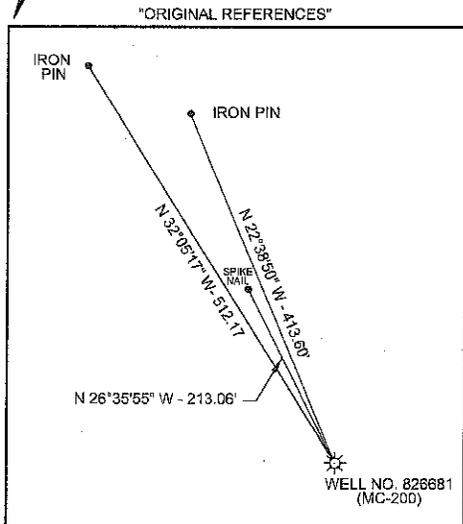
7,815'



NOTE: NO BUILDING STRUCTURES IDENTIFIED WITHIN 200'

SURFACE HOLE

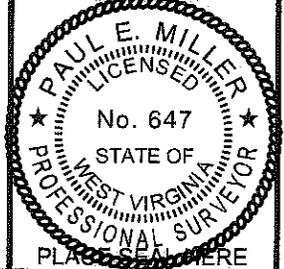
STATE PLANE WV
NORTH/SOUTH ZONE NAD 1927
N - 313,312.33 : E - 1,633,194.13
LATITUDE: (N) 37.8535480
LONGITUDE: (W) 82.2704673
UTM, NAD83
17 - 84W TO 78W, METERS
N - 4,190,337.255 : E - 388,244.800



(+) 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. _____

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

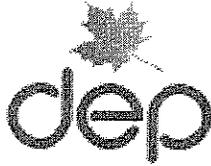
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ WORKOVER _____

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 WV-6

COUNTY NAME

PERMIT



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 16, 2012

WELL WORK PERMIT

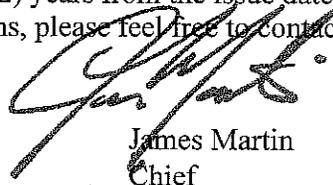
Vertical Well

This permit, API Well Number: 47-5902228, issued to QUALITY NATURAL GAS, LLC, 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.

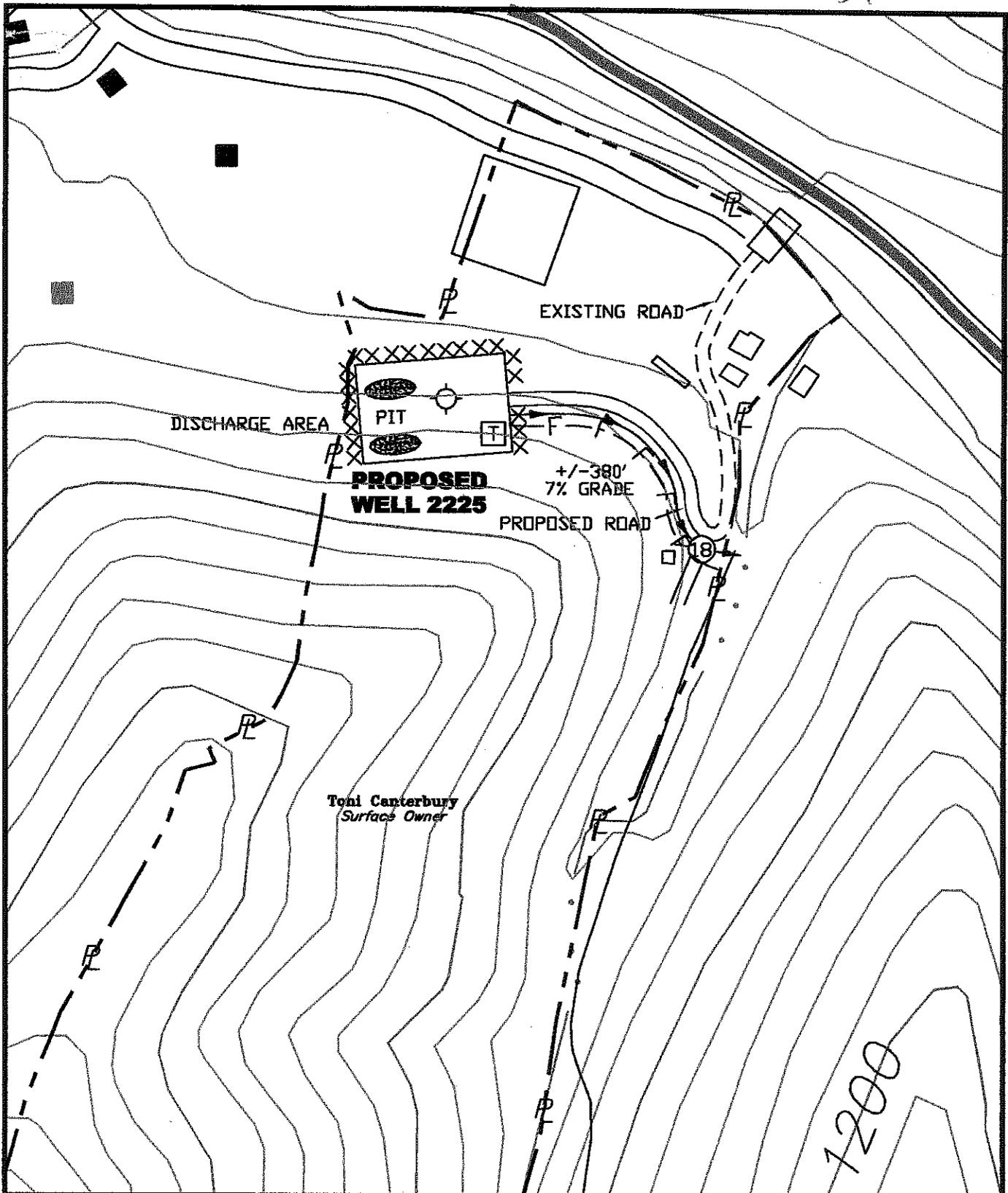
Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: 2225
Farm Name: CANTERBURY, TONI
API Well Number: 47-5902228
Permit Type: Vertical Well
Date Issued: 04/16/2012

Promoting a healthy environment.



B.S. 12-21-11



EXHIBIT MAP
SURFACE PROPERTY LINES ARE
APPROXIMATE; NOT TO BE USED
FOR TRANSFER PURPOSES

STREAM		WATER WELL		STORAGE TANK	
ROAD		PROPOSED WELL		SPRING	
EXISTING FENCE		FLOW LINE		PIT: FILL WALLS	
PLANNED FENCE		CROSS DRAIN		PIT: CUT WALLS	
OPEN DITCH		DRAIN PIPE		STORAGE WASTE AREA	
ROCK		FILTER STRIP			
BUILDING		DIVERSION DITCH			

B & B Engineering, LLC
36 Hatfield Lane
Prestonsburg, KY 41653
Phone: (606) 874-7005

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL & GAS
CHARLESTON, WVA 25304

**WELL SITE RECLAMATION PLAN
GAS WELL No. 2225**

QUALITY NATURAL GAS, LLC.
P.O. Box 480
Allen, Kentucky 41601

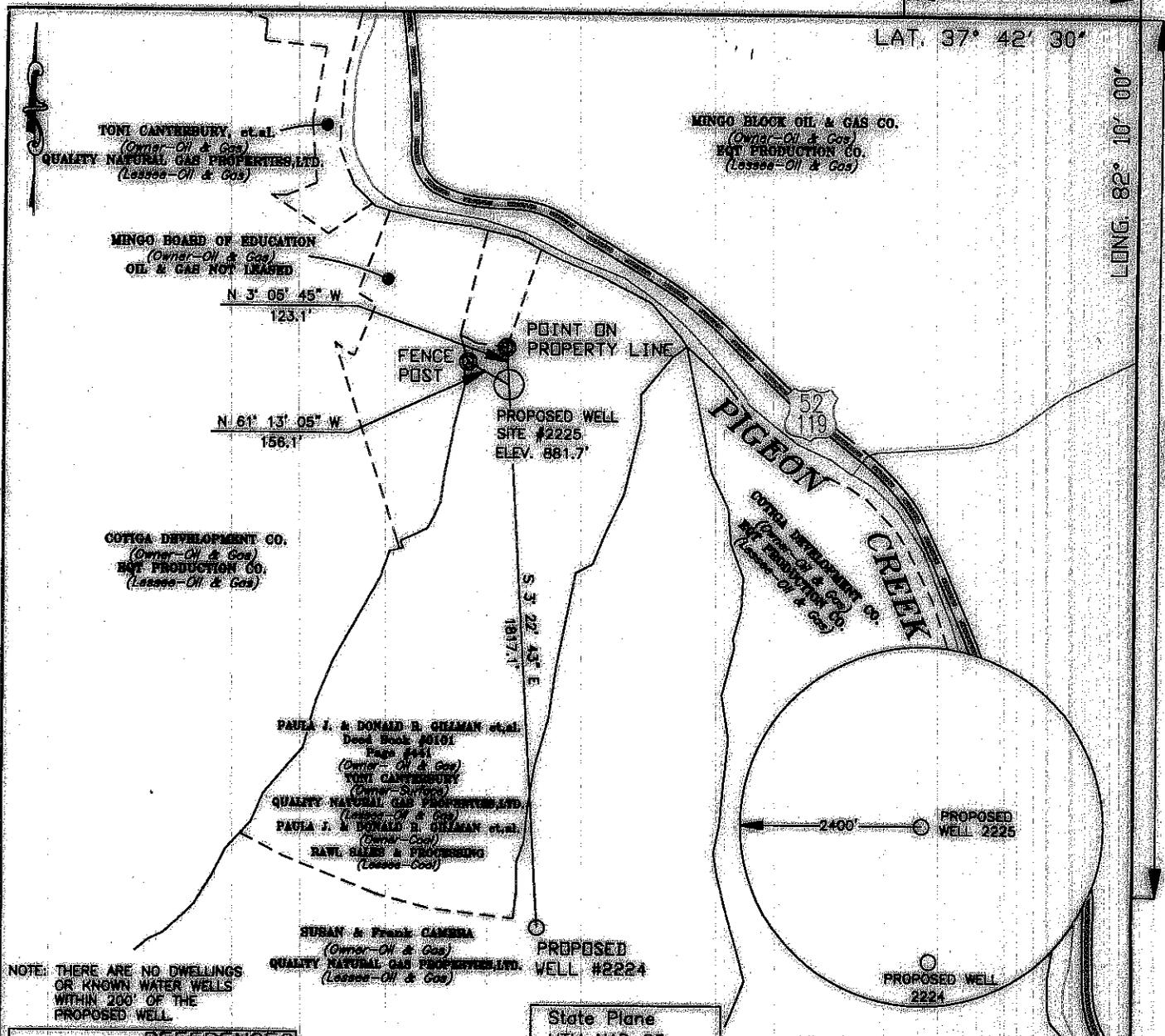
QUADRANGLE: DELBARTON
COUNTY: MINGO
LEASE #: 1032
DATE: 11/07/2011
SCALE: 1" = 200'
DRAWING FILE: WVA2225REC.DWG

3128'

LAT. 37° 42' 30"

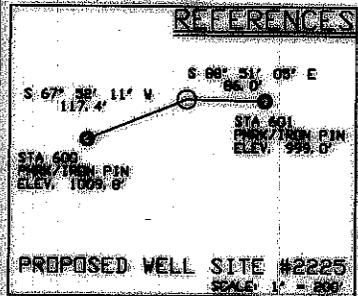
LONG. 82° 10' 00"

11762'



NOTE: THERE ARE NO DWELLINGS OR KNOWN WATER WELLS WITHIN 200' OF THE PROPOSED WELL.

State Plane
UTM NAD 83
Zone 17 (Meter)
N = 4,170,534.59
E = 396,178.51



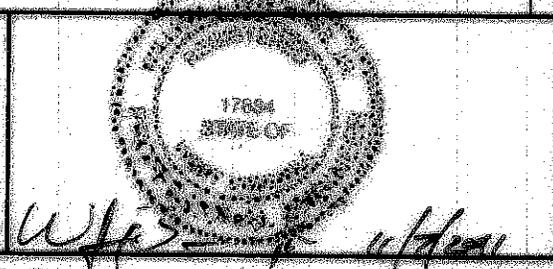
Geographic Nad 27
LAT = 37° 40' 33.72"
LONG = 82° 10' 38.91"

State Plane
WV South NAD 27
N = 248,325.778
E = 1,659,219.678

LEGEND

- + BENCH MARK
- PROPOSED WELL
- PLUMBED WELL
- EXISTING WELL
- SURVEY STATION
- TREE
- == ROAD
- == RAILROAD
- == STREAM, BRAIN CREEK

DRAWING No. WVA2225.DWG
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1 IN 2,500'
PROVEN SOURCE OF ELEVATION USGS B.M. MONUMENT #672



B & B Engineering, LLC
36 Hatfield Lane
Prestonsburg, KY 41653
Phone: (606) 874-7005

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
CHARLESTON, WV. 25304

DATE: 11/07/2011
OPERATOR'S WELL NO. 2225
API WELL NO. 47 - 59 - 2228
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION OR STORAGE DEEP OR SHALLOW

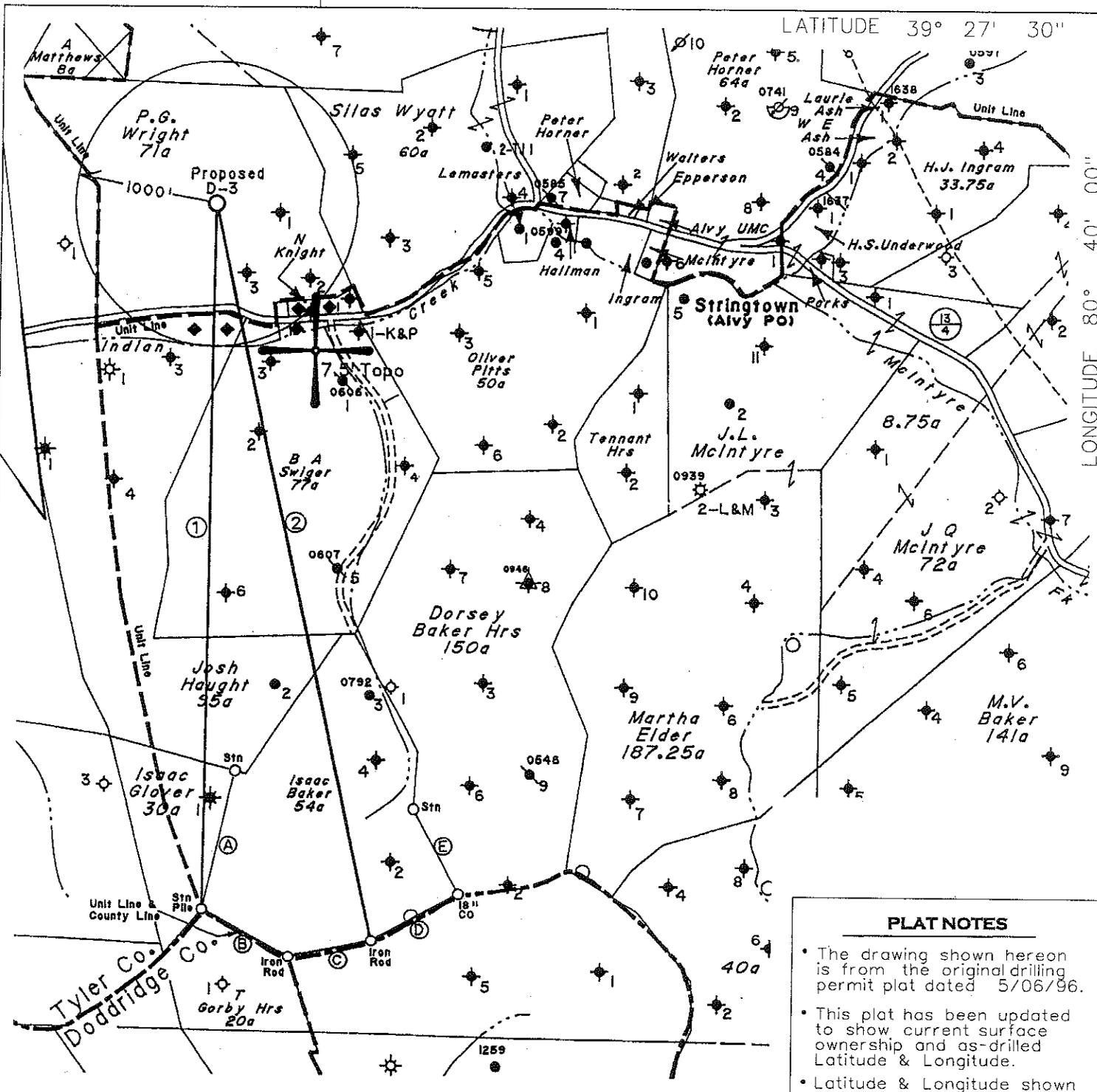
LOCATION: ELEVATION 881.7' WATER SHED PIGEON CREEK OF TUG FORK
DISTRICT LEE COUNTY MINGO
QUADRANGLE DEL BARTON

SURFACE OWNER TONI CANTERBURY ACREAGE +/- 33
OIL & GAS ROYALTY OWNER PAULA J. DONALD R. GILLMAN et al. LEASE ACREAGE +/- 33
LEASE No. 1032

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

PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION B. TIME, BEREA, B. SHALE ESTIMATED DEPTH 4223'
WELL OPERATOR QUALITY NATURAL GAS, LLC DESIGNATED AGENT JAMES HILL
ADDRESS P.O. BOX 480 ADDRESS HC 71 Rt. 4, Box 67A
Allen, Kentucky 41601 Wharngliffe, WV 25651



✚ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

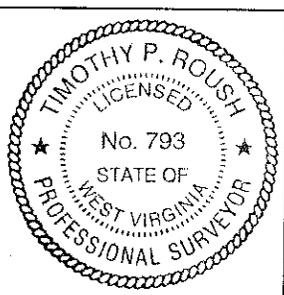
PLAT NOTES

- The drawing shown hereon is from the original drilling permit plat dated 5/06/96.
- This plat has been updated to show current surface ownership and as-drilled Latitude & Longitude.
- Latitude & Longitude shown was measured by DGPS - Sub-Meter Mapping Grade (NAD 1927)

FILE NO. _____
 MAP NO. _____ N _____ S _____ E _____ W _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY Sub-Meter
 PROVEN SOURCE OF ELEVATION WVDEP Records

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 MINES.

(SIGNED) *[Signature]*
 TIMOTHY P. ROUSH PS 793



WEST VIRGINIA
 Division of Environmental Protection
 Office of Oil and Gas
 601 57th Street
 Charleston, West Virginia 25304

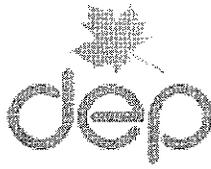


DATE November 23, 2009
 FARM P.G. Wright No.D-3
 API WELL NO. 47-095-01649F

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION WASTE DISPOSAL ___ HORIZONTAL ___
 (IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 932' WATERSHED Indian Creek
 DISTRICT McElroy COUNTY Tyler
 QUADRANGLE Centerpoint 7.5'
 SURFACE OWNER Sharon J. Baker et al. ACREAGE 32 Ac.
 OIL & GAS ROYALTY OWNER East Resources, et al. LEASE ACREAGE 71 Ac.
 LEASE NO. 47208-00
 PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

CANCELLED

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION Gordon ESTIMATED DEPTH 2,933'
 WELL OPERATOR East Resources, Inc. DESIGNATED AGENT Philip S. Ondrusek
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519
 Vienna, W.Va. 26105 Vienna, W.Va. 26105



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 11, 2012

WELL WORK PERMIT

Horizontal Well

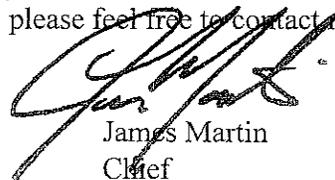
This permit, API Well Number: 47-9703823, issued to CNX GAS COMPANY LLC , is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as 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.

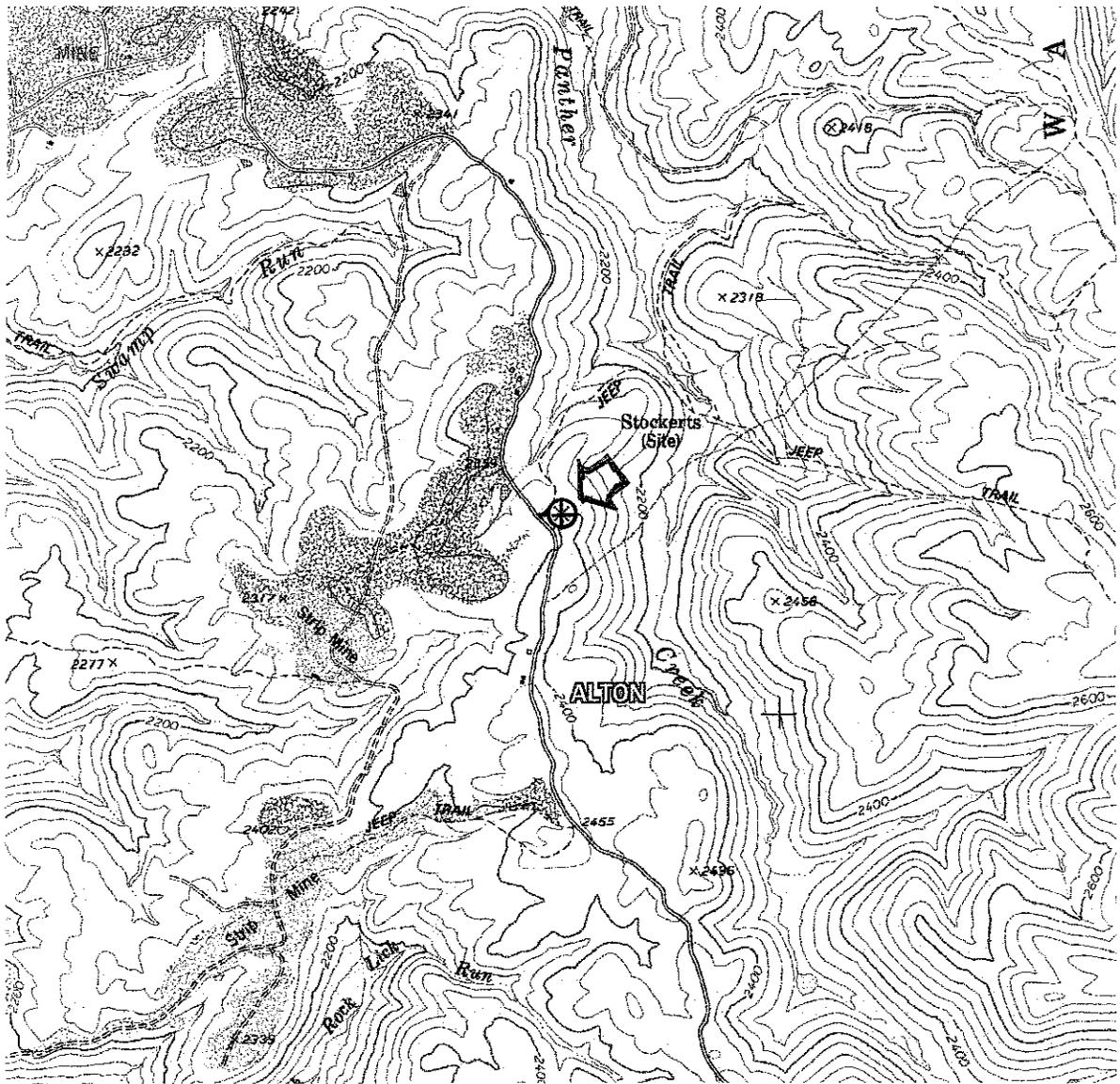
Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: ALT9AHS
Farm Name: WOODY, D. J., ET AL
API Well Number: 47-9703823
Permit Type: Horizontal Well
Date Issued: 04/11/2012

Promoting a healthy environment.



DRAWINGS TO ACCOMPANY FORM WW-9

CNX GAS COMPANY LLC

P. O. BOX 1248

JANE LEW, WV 26378

WATERSHED: PANTHER CREEK

DISTRICT: WASHINGTON COUNTY: UPSHUR

QUADRANGLE: ALTON WELL NO.: ALT9AHS

DATE: 07/22/11 PAGE of

LAND SURVEYING SERVICES
 21 CEDAR LANE
 BRIDGEPORT, WV 26330
 PHONE: 304-842-2018 OR 5762

NAD27 WV NORTH SPC

LATITUDE 38-50-00

North	East	Description
109289.63000'	1807444.42000'	ALT9AHS (REV)
109663.00000'	1808133.00000'	TANGENT PT.
110335.77217'	1808393.29447'	LANDING PT.
112740.33154'	1807584.07083'	BOTTOM HOLE

SCALED COOR.:
2,530' WEST
12,885' SOUTH

UTM NAD 83 - ZONE 17 - IN METERS

4,294,703.36 m	571,609.75 m	ALT9AHS (REV)
4,294,820.57 m	571,817.64 m	TANG. PT.
4,295,026.84 m	571,893.54 m	LAND. PT.
4,295,755.29 m	571,634.89 m	BOT. HOLE

Id	Bearing	Distance
L1	N 67°47'34" W	346.91'
L2	S 21°02'31" E	3017.10'
L3	N 61°31'55" E	783.29'

WELL REFERENCES:

N67-48W, 346.91' TO 1-1/4" IRON PIPE
S50-26W, 255.24' TO NAIL IN 24" R. MAPLE

Id	Radius	Arc Length
C1	600.00'	773.92'

(D.J. WOODY, ET. AL.
2534.80 AC. SURF.)

NOTE: ALT9AHS (REV) IS 346.91'
FROM OUTER LEASE LINE.

NOTE: NO OTHER
WELLS WITHIN 3000'.

ALT9AHS
(REV)

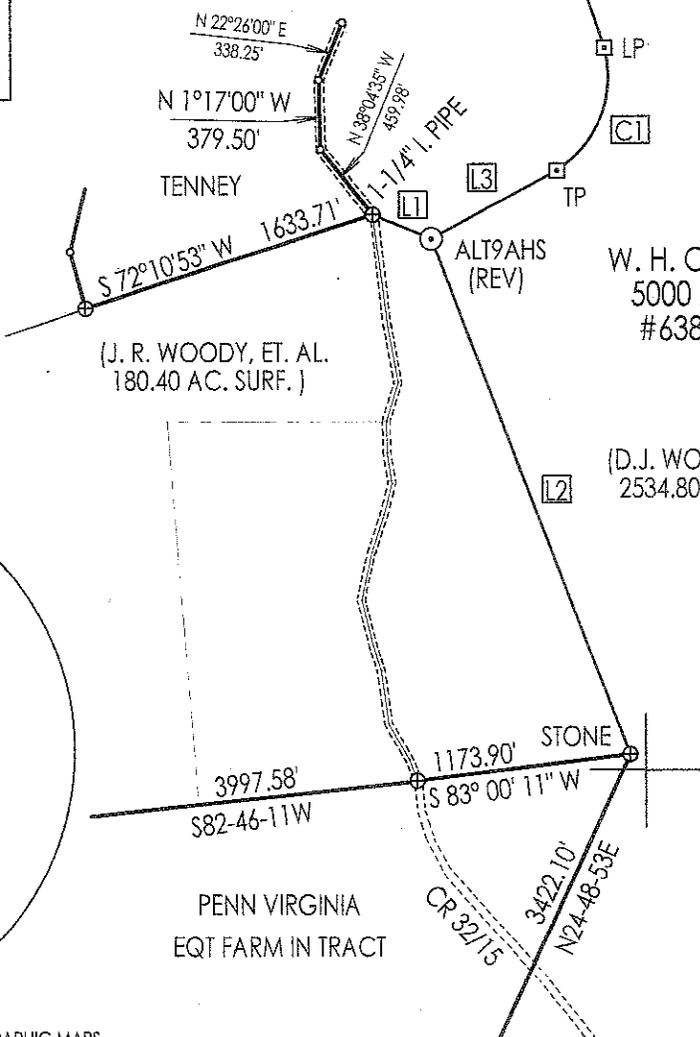
3752 - 2806'
3751 - 2822'
3750 - 2837'
3749 - 2853'

3664 DEEP
2797' WELL

3000'

GRID NORTH

LONGITUDE 80-10-00

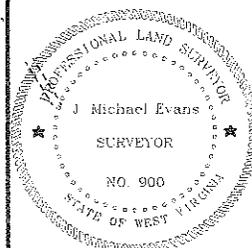


(H) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NUMBER: _____
 DRAWING NUMBER: CGCALT9AHSR.PCS
 SCALE: 1" = 1,000
 MINIMUM DEGREE OF ACCURACY: RTK CENTIMETER
 PROVEN SOURCE OF ELEVATION: RTK CENTIMETER
ACCURACY 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 ENERGY.

(SIGNED) _____
 STEPHEN D. LOSH, PS #674



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 #10 McJUNKIN ROAD
 NITRO, WV 25143-2506
 FORM WW-6

LAND SURVEYING SERVICES
 21 CEDAR LANE, BRIDGEPORT, WV 26330
 PHONE: 304-842-2018 OR 842-5762

DATE: DECEMBER 07, 2011

OPERATORS WELL NO.: ALT9AHS (REV)

API WELL NO. 47-097-03823H
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___

LOCATION: ELEVATION 2393' (729.40 m) WATERSHED PANTHER CREEK

DISTRICT WASHINGTON COUNTY UPSHUR

QUADRANGLE ALTON LEASE NUMBER 63848

SURFACE OWNER DON J. WOODY, ET. AL. ACREAGE 2,534.80 (6Q-10)

OIL & GAS ROYALTY OWNER W. H. O'DELL, ET. AL. LEASE ACREAGE 5,030.81

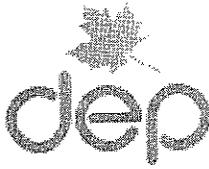
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___
 PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE (SPECIFY) HORIZONTAL

TARGET FORMATION ORISKANY/MARCELLUS PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
 ESTIMATED DEPTH TVD 7,550' / TMD 11,500'

WELL OPERATOR CNX GAS COMPANY LLC DESIGNATED AGENT KENT WRIGHT

ADDRESS P. O. BOX 1248 JANE LEW, WV 26378 ADDRESS P. O. BOX 1248 JANE LEW, WV 26378

COUNTY NAME
 PERMIT



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 11, 2012

WELL WORK PERMIT

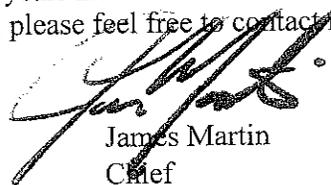
Horizontal Well

This permit, API Well Number: 47-9703824, issued to CNX GAS COMPANY LLC, 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.

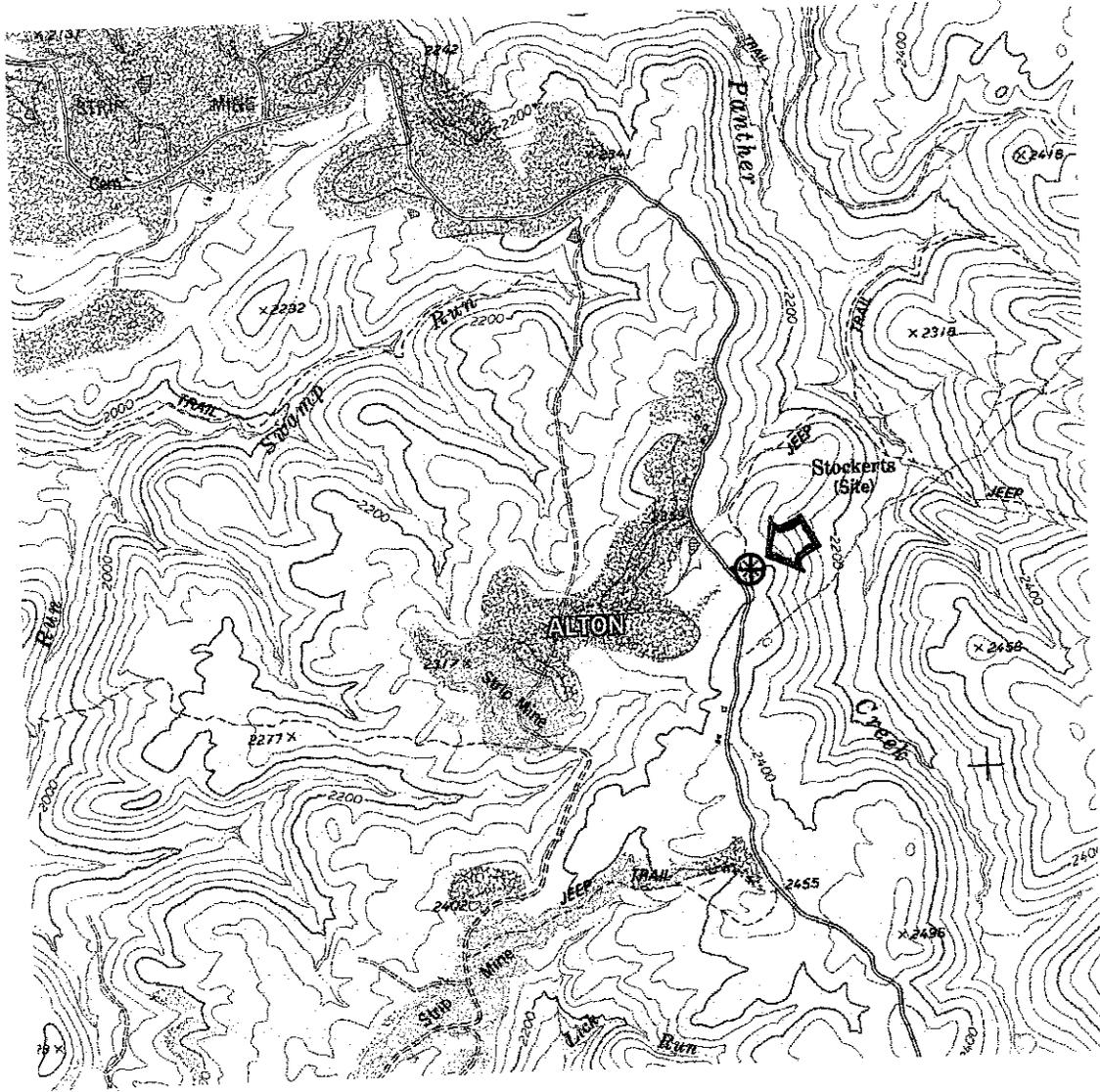
Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: ALT9BHS
Farm Name: WOODY, D. J., ET AL
API Well Number: 47-9703824
Permit Type: Horizontal Well
Date Issued: 04/11/2012

Promoting a healthy environment.



DRAWINGS TO ACCOMPANY FORM WW-9

CNX GAS COMPANY LLC

P. O. BOX 1248

JANE LEW, WV 26378

WATERSHED: PANTHER CREEK

DISTRICT: WASHINGTON COUNTY: UPSHUR

QUADRANGLE: ALTON WELL NO.: ALT9BHS

DATE: 07/27/11 PAGE of

LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-842-2018 OR 5762

WELL REFERENCES:
 N61-44W, 328.88' TO 1-1/4" IRON PIPE
 S50-09W, 215.26' TO NAIL IN 24" R. MAPLE

Id	Bearing	Distance
L1	N 61°44'00" W	328.88'
L2	S 21°46'17" E	3005.67'
L3	S 86°37'56" W	255.34'

Id	Radius	Arc Length
C1	600.00'	965.15'

NAD27 WV NORTH SPC		
North	East	Description
109265.00000'	1807412.90000'	ALT9BHS (REV)
109250.00000'	1807158.00000'	TANGENT PT.
108529.91935'	1806679.78892'	LANDING PT.
105153.48711'	1807816.08390'	BOTTOM HOLE

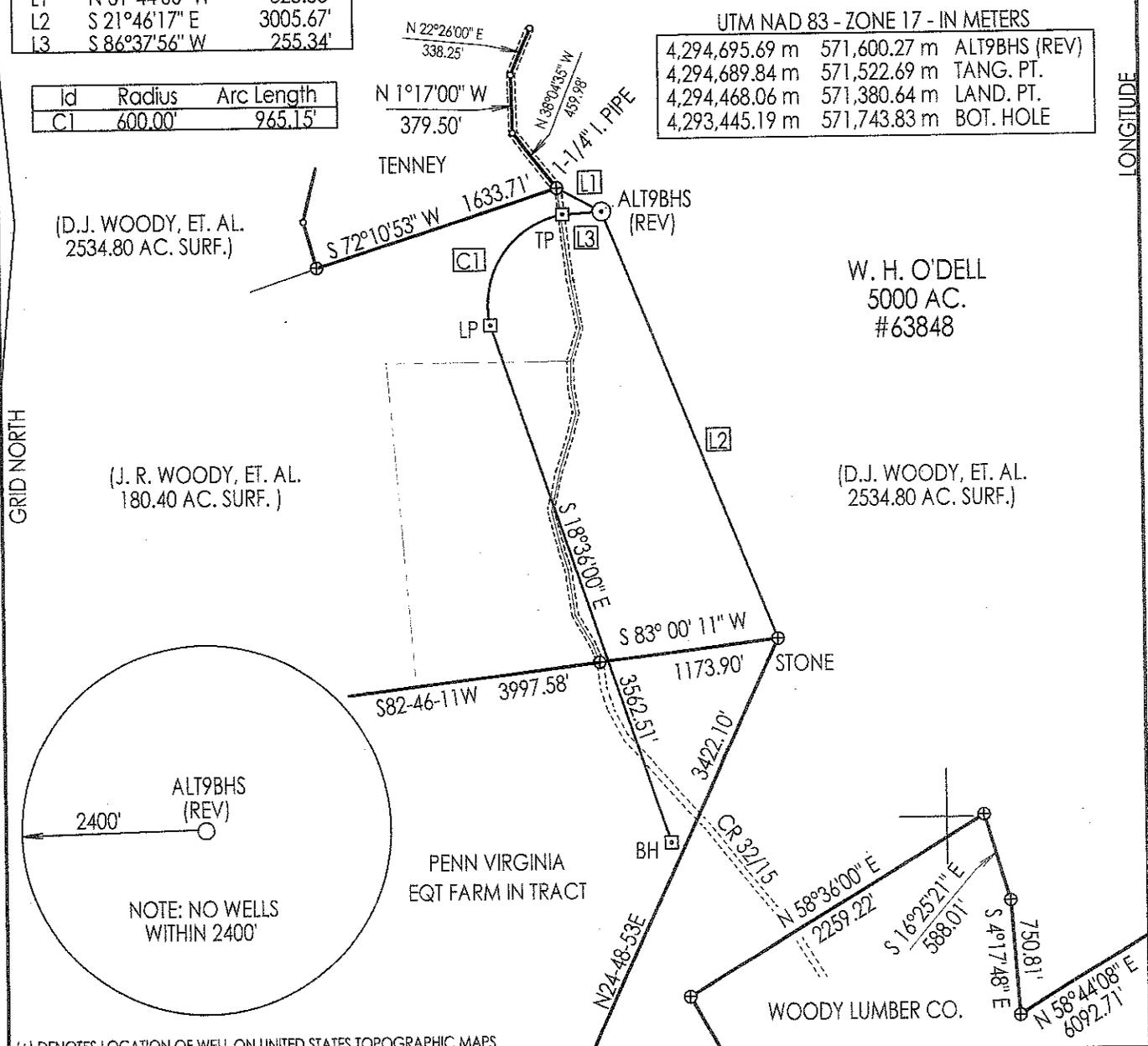
LATITUDE 38-50-00

SCALED COOR.:

2,560' WEST
12,910' SOUTH

UTM NAD 83 - ZONE 17 - IN METERS

4,294,695.69 m	571,600.27 m	ALT9BHS (REV)
4,294,689.84 m	571,522.69 m	TANG. PT.
4,294,468.06 m	571,380.64 m	LAND. PT.
4,293,445.19 m	571,743.83 m	BOT. HOLE

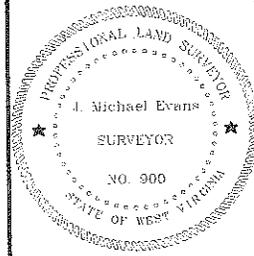


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NUMBER: _____
 DRAWING NUMBER: CGCALT9BHSR.PCS
 SCALE: 1" = 1,000
 MINIMUM DEGREE OF ACCURACY: RTK CENTIMETER
 PROVEN SOURCE OF ELEVATION: RTK CENTIMETER
ACCURACY 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 ENERGY.

(SIGNED) 
 STEPHEN D. LOSH, PS #674



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 #10 McJUNKIN ROAD
 NITRO, WV 25143-2506
 FORM WW-6

LAND SURVEYING SERVICES
 21 CEDAR LANE, BRIDGEPORT, WV 26330
 PHONE: 304-842-2018 OR 842-5762

DATE: DECEMBER 06, 2011
 OPERATORS WELL NO.: ALT9BHS (REV)
 API WELL NO. 47-097-03824H
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 2393' (729.40 m) WATERSHED PANTHER CREEK
 DISTRICT WASHINGTON COUNTY UPSHUR
 QUADRANGLE ALTON LEASE NUMBER 63848
 SURFACE OWNER DON J. WOODY, ET. AL. ACREAGE 2,534.80 (6Q-10)
 OIL & GAS ROYALTY OWNER W. H. O'DELL, ET. AL. LEASE ACREAGE 5,030.81
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) HORIZONTAL
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD 7,400' / TMD 11,930'
 WELL OPERATOR CNX GAS COMPANY LLC DESIGNATED AGENT KENT WRIGHT
 ADDRESS P. O. BOX 1248 JANE LEW, WV 26378 ADDRESS P. O. BOX 1248 JANE LEW, WV 26378

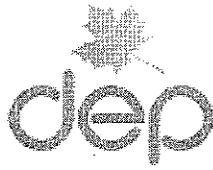
80-10-00

LONGITUDE

GRID NORTH

COUNTY NAME

PERMIT



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 11, 2012

WELL WORK PERMIT

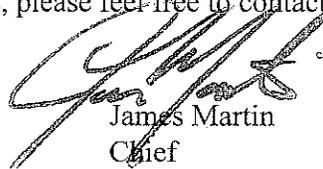
Horizontal Well

This permit, API Well Number: 47-9703825, issued to CNX GAS COMPANY LLC, 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: ALT9CHS
Farm Name: WOODY, D. J., ET AL
API Well Number: 47-9703825
Permit Type: Horizontal Well
Date Issued: 04/11/2012

Promoting a healthy environment.



DRAWINGS TO ACCOMPANY FORM WW-9	
CNX GAS COMPANY LLC	
P. O. BOX 1248	
JANE LEW, WV 26378	
WATERSHED:	PANTHER CREEK
DISTRICT:	WASHINGTON COUNTY: UPSHUR
QUADRANGLE:	ALTON WELL NO.: ALT9CHS
DATE:	07/27/11 PAGE ____ of ____

LAND SURVEYING SERVICES
 21 CEDAR LANE
 BRIDGEPORT, WV 26330
 PHONE: 304-842-2018 OR 5762

WELL REFERENCES:
 N60-24W, 347.29' TO 1-1/4" IRON PIPE
 S55-28W, 215.55' TO NAIL IN 24" R. MAPLE

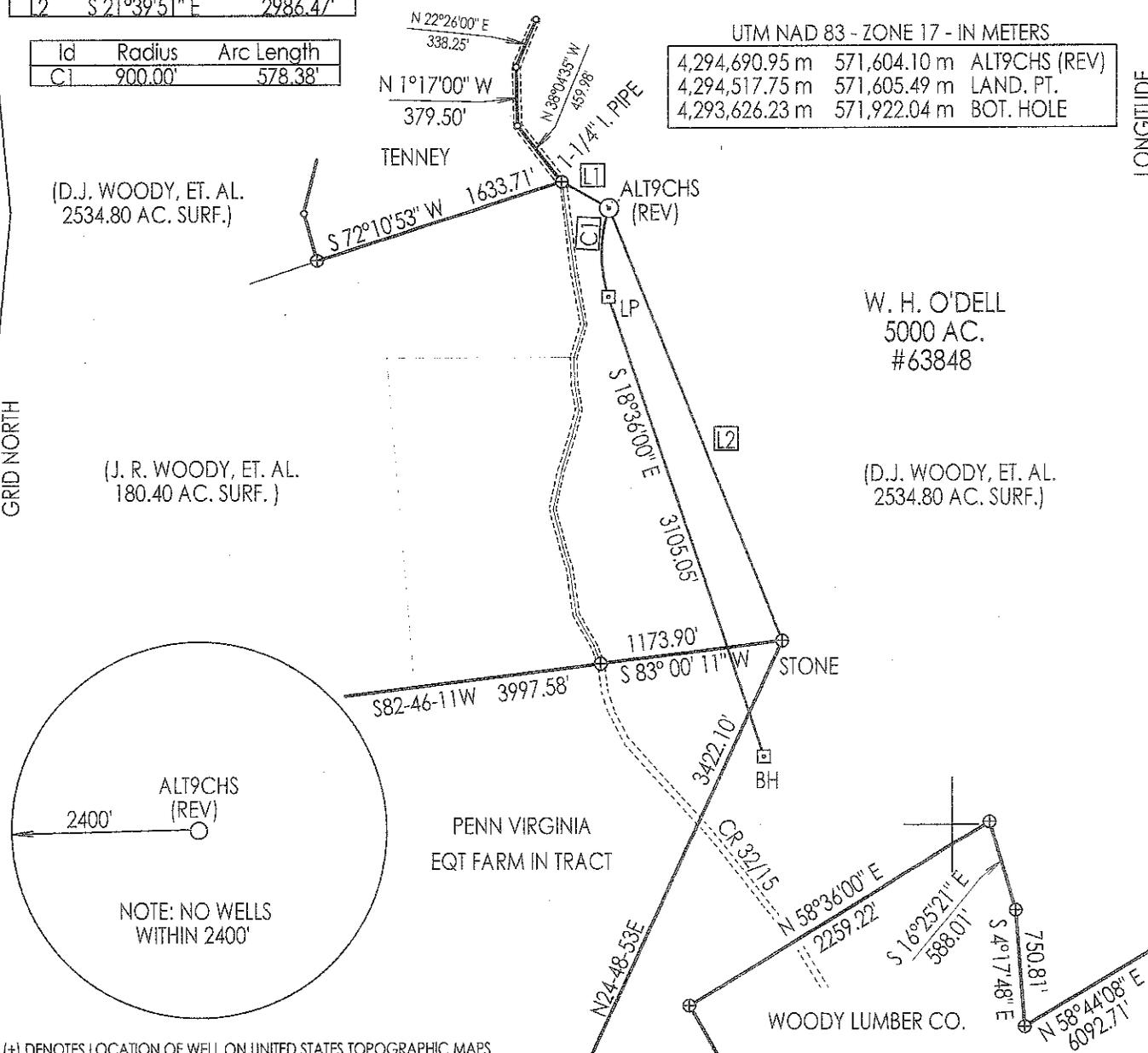
NAD27 WV NORTH SPC		
North	East	Description
109249.24000'	1807425.22000'	ALT9CHS (REV)
108680.78150'	1807420.35075'	LANDING PT.
105737.91117'	1808410.73604'	BOTTOM HOLE

LATITUDE 38-50-00
 SCALED COOR.:
 2,550' WEST
 12,925' SOUTH

Id	Bearing	Distance
L1	N 60°24'21" W	347.29'
L2	S 21°39'51" E	2986.47'

Id	Radius	Arc Length
C1	900.00'	578.38'

UTM NAD 83 - ZONE 17 - IN METERS		
4,294,690.95 m	571,604.10 m	ALT9CHS (REV)
4,294,517.75 m	571,605.49 m	LAND. PT.
4,293,626.23 m	571,922.04 m	BOT. HOLE

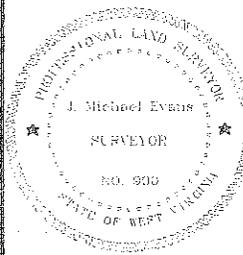


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NUMBER: _____
 DRAWING NUMBER: CGCALT9CHSR.PCS
 SCALE: 1" = 1,000
 MINIMUM DEGREE OF ACCURACY: RTK CENTIMETER
 PROVEN SOURCE OF ELEVATION: RTK CENTIMETER
ACCURACY 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 ENERGY.

(SIGNED) _____
 STEPHEN D. LOSH, PS #674



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 #10 McJUNKIN ROAD
 NITRO, WV 25143-2506
 FORM WW-6

LAND SURVEYING SERVICES
 21 CEDAR LANE, BRIDGEPORT, WV 26330
 PHONE: 304-842-2018 OR 842-5762

DATE: DECEMBER 06, 2011
 OPERATORS WELL NO.: ALT9CHS (REV)
 API WELL NO. 47-097-03825H
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 2393' (729.40 m) WATERSHED PANTHER CREEK
 DISTRICT WASHINGTON COUNTY UPSHUR
 QUADRANGLE ALTON LEASE NUMBER 63848

SURFACE OWNER DON J. WOODY, ET. AL. ACREAGE 2,534.80 (6Q-10)
 OIL & GAS ROYALTY OWNER W. H. O'DELL, ET. AL. LEASE ACREAGE 5,030.81

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) HORIZONTAL

TARGET FORMATION MARCELLUS PLUG & ABANDON CLEAN OUT & REPLUG
 ESTIMATED DEPTH TYD 7,400' / TMD 11,090'

WELL OPERATOR CNX GAS COMPANY LLC DESIGNATED AGENT KENT WRIGHT
 ADDRESS P. O. BOX 1248 JANE LEW, WV 26378 ADDRESS P. O. BOX 1248 JANE LEW, WV 26378

COUNTY NAME
 PERMIT



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 11, 2012

WELL WORK PERMIT

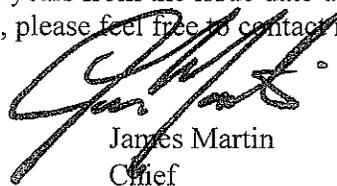
Horizontal Well

This permit, API Well Number: 47-9703826, issued to CNX GAS COMPANY LLC, 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.

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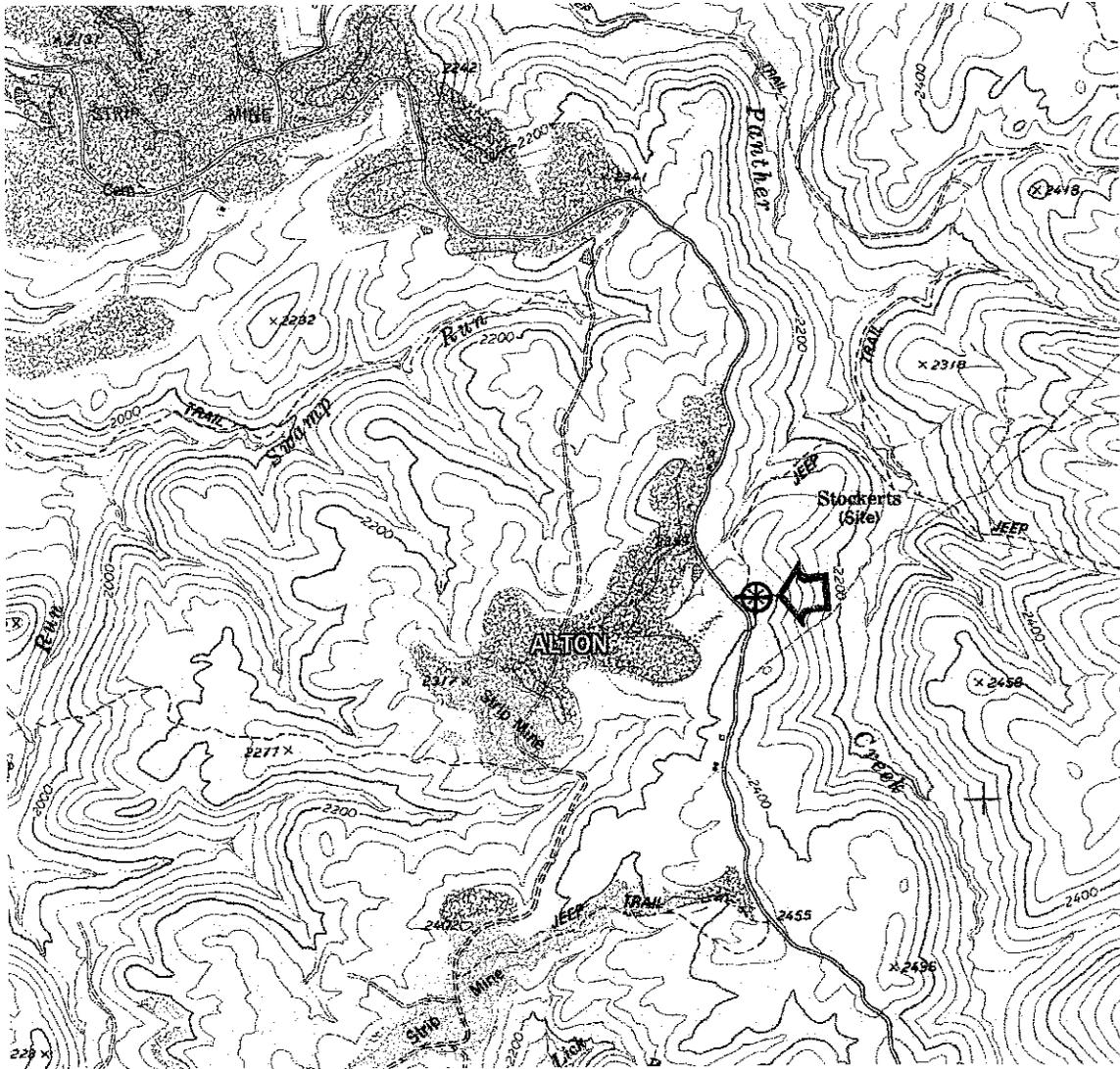
Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: ALT9DHS
Farm Name: WOODY, D. J., ET AL
API Well Number: 47-9703826
Permit Type: Horizontal Well
Date Issued: 04/11/2012

Promoting a healthy environment.



DRAWINGS TO ACCOMPANY FORM WW-9

CNX GAS COMPANY LLC

P. O. BOX 1248

JANE LEW, WV 26378

WATERSHED: PANTHER CREEK

DISTRICT: WASHINGTON COUNTY: UPSHUR

QUADRANGLE: ALTON WELL NO.: ALT9DHS

DATE: 07/27/11 PAGE of

LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-842-2018 OR 5762

WELL REFERENCES:
 N63-23W, 355.39' TO 1-1/4" IRON PIPE
 S55-10W, 235.52' TO NAIL IN 24" R. MAPLE

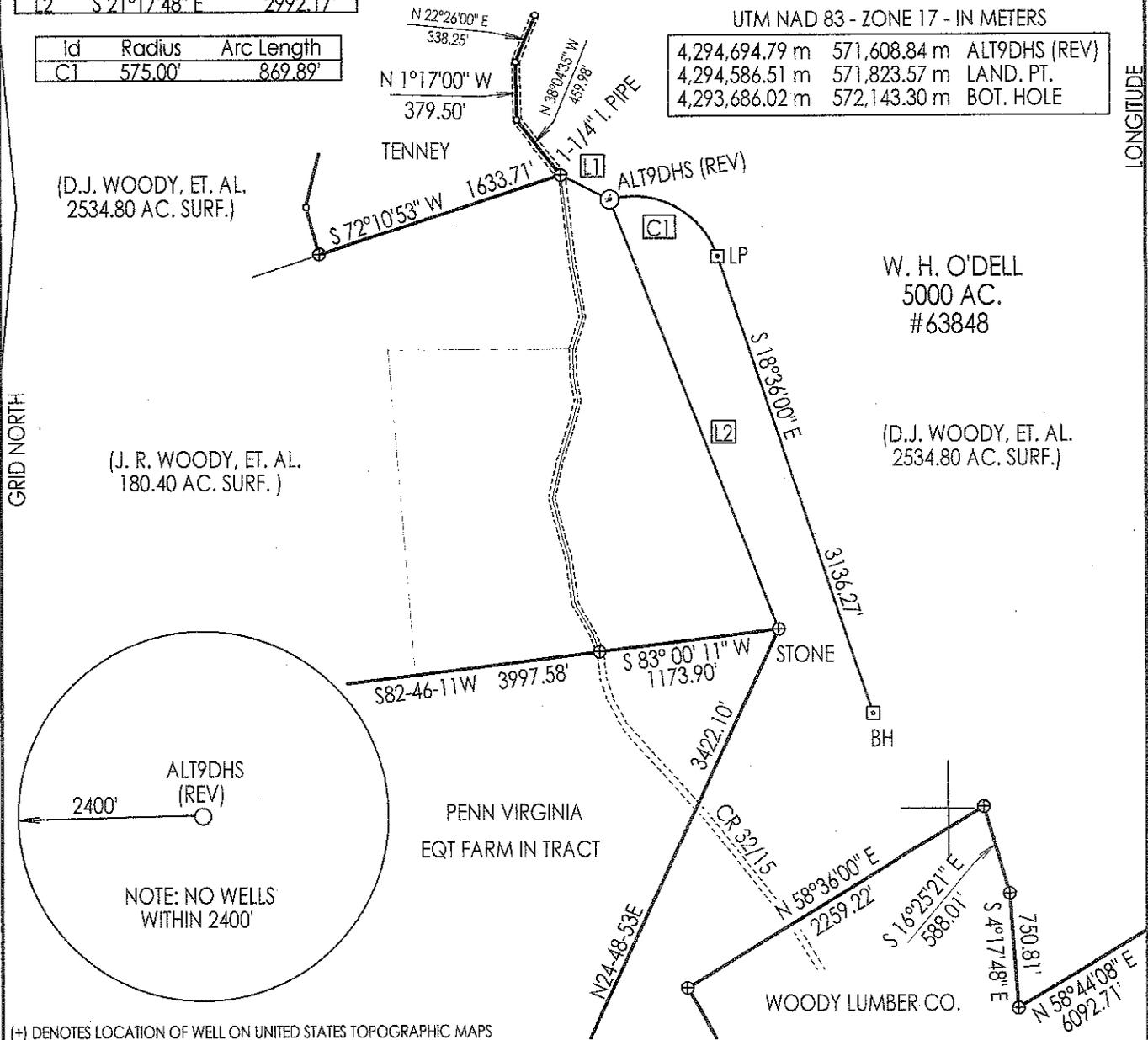
Id	Bearing	Distance
L1	N 63°23'21" W	355.39'
L2	S 21°17'48" E	2992.17'

Id	Radius	Arc Length
CI	575.00'	869.89'

NAD27 WV NORTH SPC		
North	East	Description
109261.56000'	1807440.98000'	ALT9DHS (REV)
108894.55288'	1808139.74129'	LANDING PT.
105922.09789'	1809140.08291'	BOTTOM HOLE

LATITUDE 38-50-00
 SCALED COOR.:
 2,535' WEST
 12,915' SOUTH

UTM NAD 83 - ZONE 17 - IN METERS		
4,294,694.79 m	571,608.84 m	ALT9DHS (REV)
4,294,586.51 m	571,823.57 m	LAND. PT.
4,293,686.02 m	572,143.30 m	BOT. HOLE

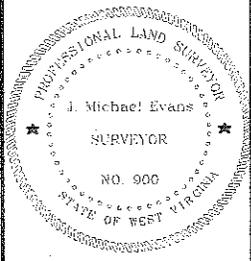


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NUMBER: _____
 DRAWING NUMBER: CGCALT9DHSR.PCS
 SCALE: 1" = 1,000
 MINIMUM DEGREE OF ACCURACY: RTK CENTIMETER
 PROVEN SOURCE OF ELEVATION: RTK CENTIMETER
ACCURACY 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 ENERGY.

(SIGNED) _____
 STEPHEN D. LOSH, PS #674



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 #10 McJUNKIN ROAD
 NITRO, WV 25143-2506
 FORM WW-6

LAND SURVEYING SERVICES
 21 CEDAR LANE, BRIDGEPORT, WV 26330
 PHONE: 304-842-2018 OR 842-5762

DATE: DECEMBER 06, 2011
 OPERATORS WELL NO.: ALT9DHS (REV)
 API WELL NO. 47-097-03826H
 STATE COUNTY PERMIT

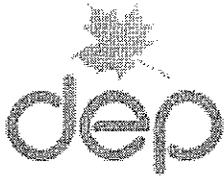
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 2393' (729.40 m) WATERSHED PANTHER CREEK
 DISTRICT WASHINGTON COUNTY UPSHUR
 QUADRANGLE ALTON LEASE NUMBER 63848
 SURFACE OWNER DON J. WOODY, ET. AL. ACREAGE 2,534.80 (6Q-10)
 OIL & GAS ROYALTY OWNER W. H. O'DELL, ET. AL. LEASE ACREAGE 5,030.81
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) HORIZONTAL
 TARGET FORMATION MARCELLUS PLUG & ABANDON CLEAN OUT & REPLUG
 ESTIMATED DEPTH TVD 7,400' / TMD 11,410'
 WELL OPERATOR CNX GAS COMPANY LLC DESIGNATED AGENT KENT WRIGHT
 ADDRESS P. O. BOX 1248 JANE LEW, WV 26378 ADDRESS P. O. BOX 1248 JANE LEW, WV 26378

80-10-00

LONGITUDE

COUNTY NAME

PERMIT



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 11, 2012

WELL WORK PERMIT

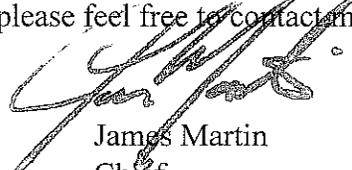
Horizontal Well

This permit, API Well Number: 47-9703827, issued to CNX GAS COMPANY LLC, 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.

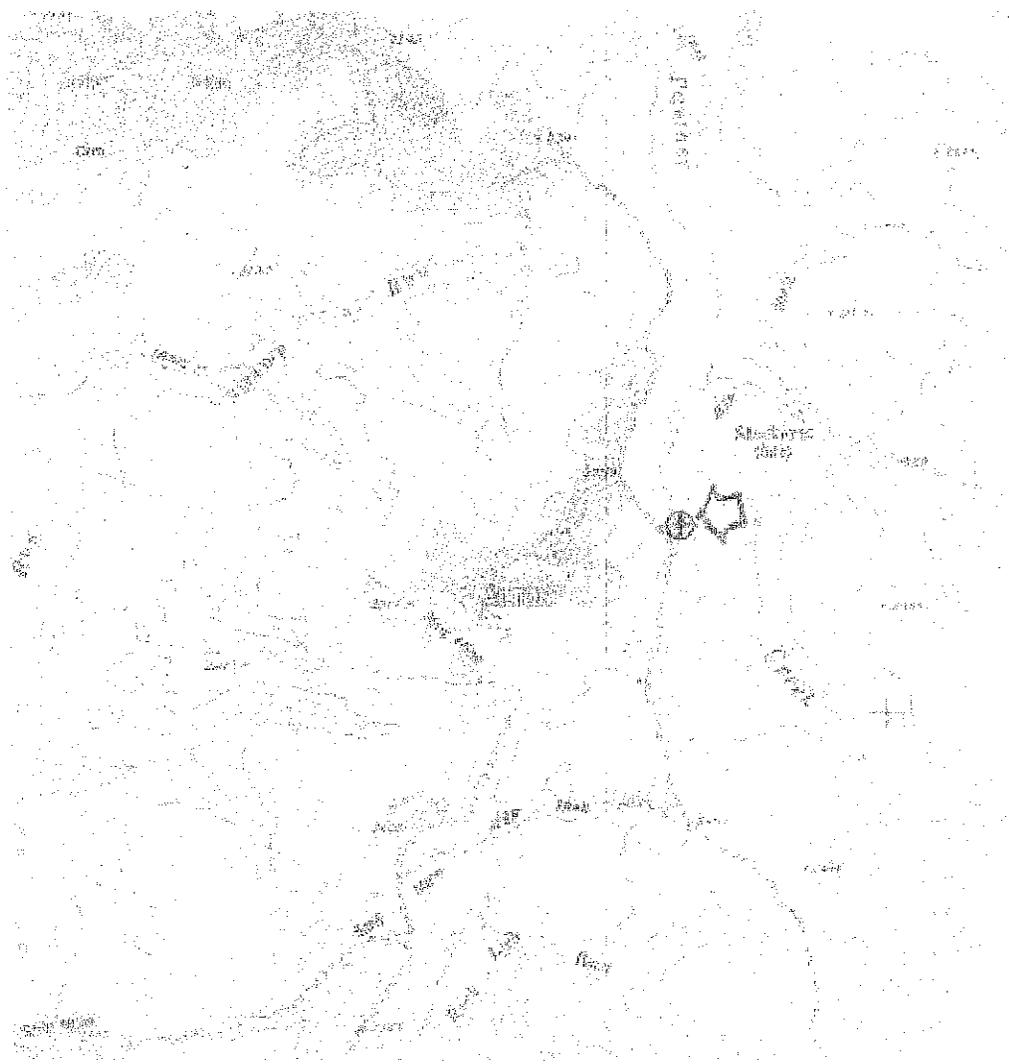
Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: ALT9EHS
Farm Name: WOODY, D. J., ET AL
API Well Number: 47-9703827
Permit Type: Horizontal Well
Date Issued: 04/11/2012

Promoting a healthy environment.



DRAWINGS TO ACCOMPANY FORM WVA-9

CONX GAS COMPANY LLC

R. D. BOX 1048

STATE HWY 3678

WATERSHED: PANASTRUCTEK

DISTRICT: WASHINGTON COUNTY: UPSIDE

QUADRANGLE: ALBUS WELL NO. 4616015

DATE: 07/20/11 PAGE 02

LAND SURVEYING SERVICES
 21 CEDAR LANE
 HUNTERDON, WV 26039
 PHONE: 304-492-2018 FAX: 304-492-2019

WELL REFERENCES:
 N66-14W, 364.41' TO 1-1/4" IRON PIPE
 S54-55W, 255.49' TO NAIL IN 24" R. MAPLE

Id	Bearing	Distance
L1	N 66°13'50" W	364.41'
L2	S 20°55'50" E	2997.97'
L3	N 78°48'57" E	768.86'

Id	Radius	Arc Length
C1	600.00'	794.31'

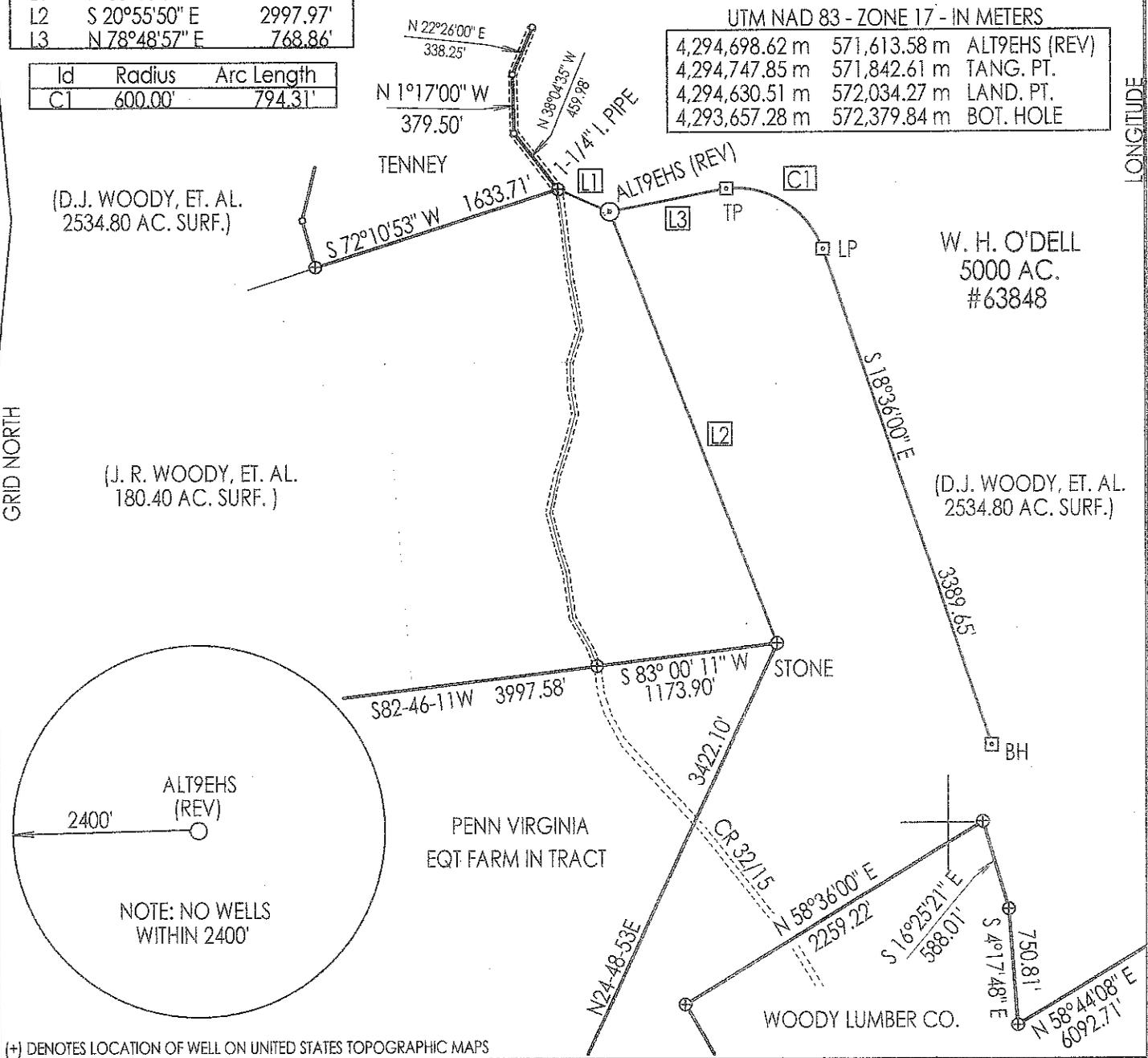
NAD27 WV NORTH SPC		
North	East	Description
109273.87000'	1807456.74000'	ALT9EHS (REV)
109423.00000'	1808211.00000'	TANGENT PT.
109027.51887'	1808833.57035'	LANDING PT.
105814.91867'	1809914.72977'	BOTTOM HOLE

LATITUDE 38-50-00

SCALED COOR.:

2,520' WEST
12,905' SOUTH

UTM NAD 83 - ZONE 17 - IN METERS		
4,294,698.62 m	571,613.58 m	ALT9EHS (REV)
4,294,747.85 m	571,842.61 m	TANG. PT.
4,294,630.51 m	572,034.27 m	LAND. PT.
4,293,657.28 m	572,379.84 m	BOT. HOLE

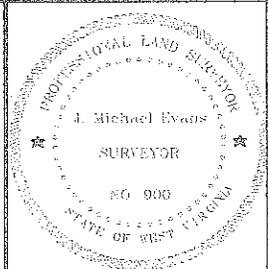


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NUMBER: _____
 DRAWING NUMBER: CGCALT9EHSR.PCS
 SCALE: 1" = 1,000
 MINIMUM DEGREE OF ACCURACY: RTK CENTIMETER
 PROVEN SOURCE OF ELEVATION: RTK CENTIMETER
ACCURACY 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 ENERGY.

(SIGNED) _____
 STEPHEN D. LOSH, PS #674



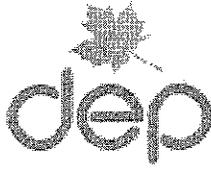
STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 #10 McJUNKIN ROAD
 NITRO, WV 25143-2506
 FORM WW-6

LAND SURVEYING SERVICES
 21 CEDAR LANE, BRIDGEPORT, WV 26330
 PHONE: 304-842-2018 OR 842-5762

DATE: DECEMBER 06, 2011
 OPERATORS WELL NO.: ALT9EHS (REV)
 API WELL NO. 47-097-0952
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 2393' (729.40 m) WATERSHED PANTHER CREEK
 DISTRICT WASHINGTON COUNTY UPSHUR
 QUADRANGLE ALTON LEASE NUMBER 63848
 SURFACE OWNER DON J. WOODY, ET. AL. ACREAGE 2,534.80 (6Q-10)
 OIL & GAS ROYALTY OWNER W. H. O'DELL, ET. AL. LEASE ACREAGE 5,030.81
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) HORIZONTAL
 PLUG & ABANDON CLEAN OUT & REPLUG
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD 7,400' / TMD 12,360'
 WELL OPERATOR CNX GAS COMPANY LLC DESIGNATED AGENT KENT WRIGHT
 ADDRESS P. O. BOX 1248 JANE LEW, WV 26378 ADDRESS P. O. BOX 1248 JANE LEW, WV 26378

80-10-00
LONGITUDE
COUNTY NAME
PERMIT



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

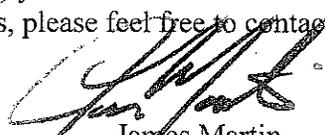
Re-Work

This permit, API Well Number: 47-9901830, issued to BILL & JESSIE INC, 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.



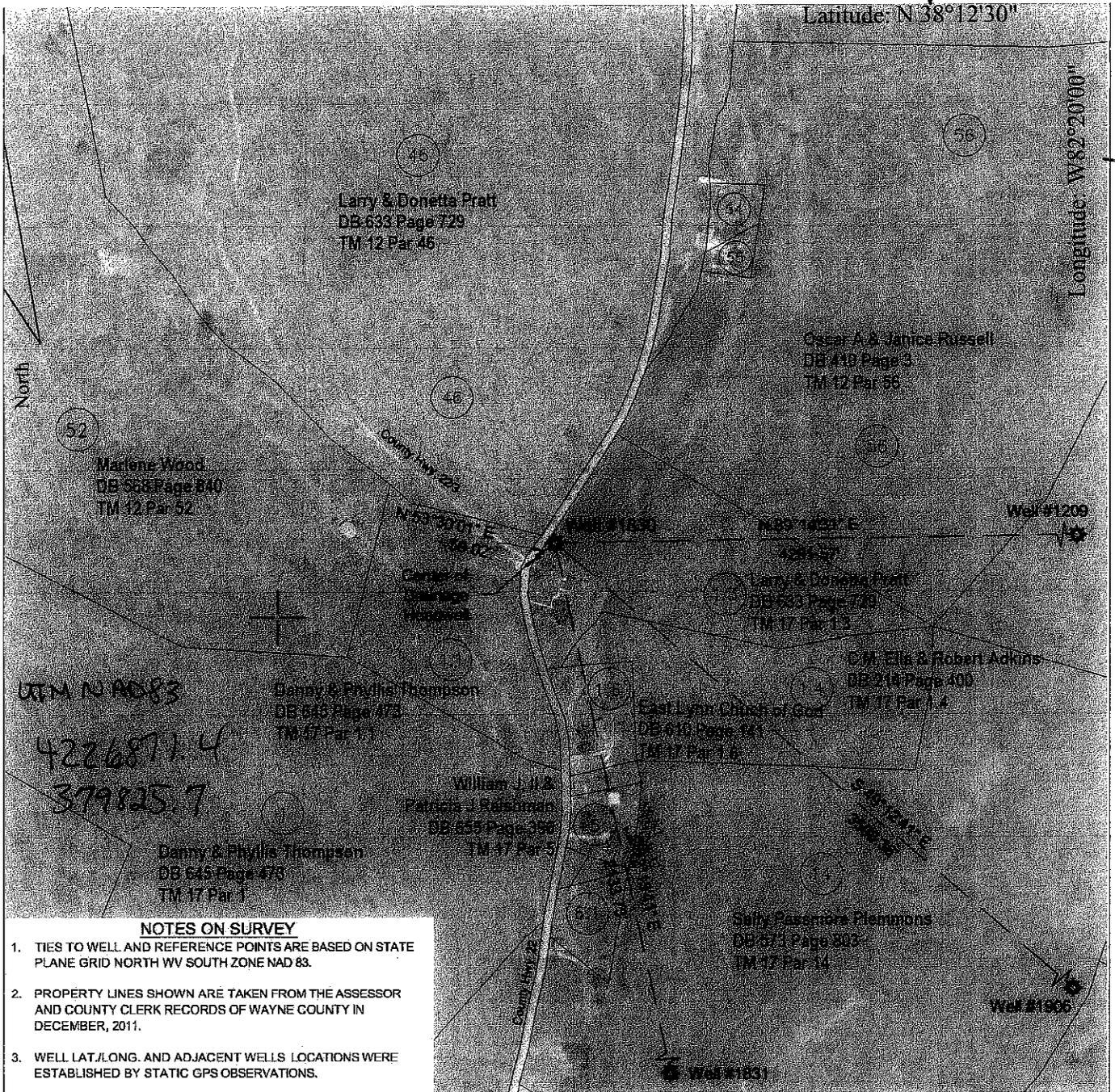
James Martin
Chief

Operator's Well No: 1
Farm Name: PRATT, LARRY
API Well Number: 47-9901830
Permit Type: Re-Work
Date Issued: 04/10/2012

Promoting a healthy environment.

11,275

8502



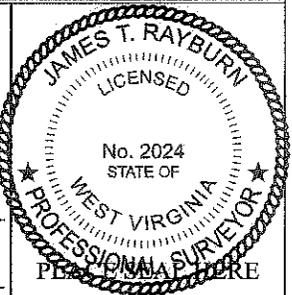
NOTES ON SURVEY

1. TIES TO WELL AND REFERENCE POINTS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD 83.
2. PROPERTY LINES SHOWN ARE TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF WAYNE COUNTY IN DECEMBER, 2011.
3. WELL LAT./LONG. AND ADJACENT WELLS LOCATIONS WERE ESTABLISHED BY STATIC GPS OBSERVATIONS.

FILE #: 1830
 DRAWING #: 1830
 SCALE: 1 Inch = 400 Feet
 MINIMUM DEGREE OF ACCURACY: 1:5000
 PROVEN SOURCE OF ELEVATION: Static 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: [Signature]
 R.P.E.: _____ L.L.S.: 2024



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: December 10, 2011
 OPERATOR'S WELL #: 1830
 API WELL #: 47 099 01830
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

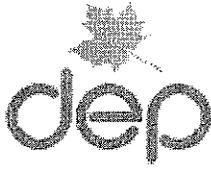
WATERSHED: Little Lynn Creek ELEVATION: 659.35
 COUNTY/DISTRICT: 099-Wayne / 5-Stonewall QUADRANGLE: 504 - NESTLOW

SURFACE OWNER: Larry Pratt ACREAGE: _____
 OIL & GAS ROYALTY OWNER: Larry Pratt ACREAGE: _____

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): Clean Out

TARGET FORMATION: Devonian Shale ESTIMATED DEPTH: 2810

WELL OPERATOR Bill and Jesse Inc. DESIGNATED AGENT Clyde Smith
 Address P.O. Box 8213 Address P.O. Box 8213
 City Huntington State WV Zip Code 25705 City Huntington State WV Zip Code 25705



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
Re-Work

This permit, API Well Number: 47-9901831, issued to BILL & JESSIE INC, 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: 1
Farm Name: PLEAMONS, SALLY
API Well Number: 47-9901831
Permit Type: Re-Work
Date Issued: 04/10/2012

Promoting a healthy environment.

99-831F

4560 III NW
(WAYNE)

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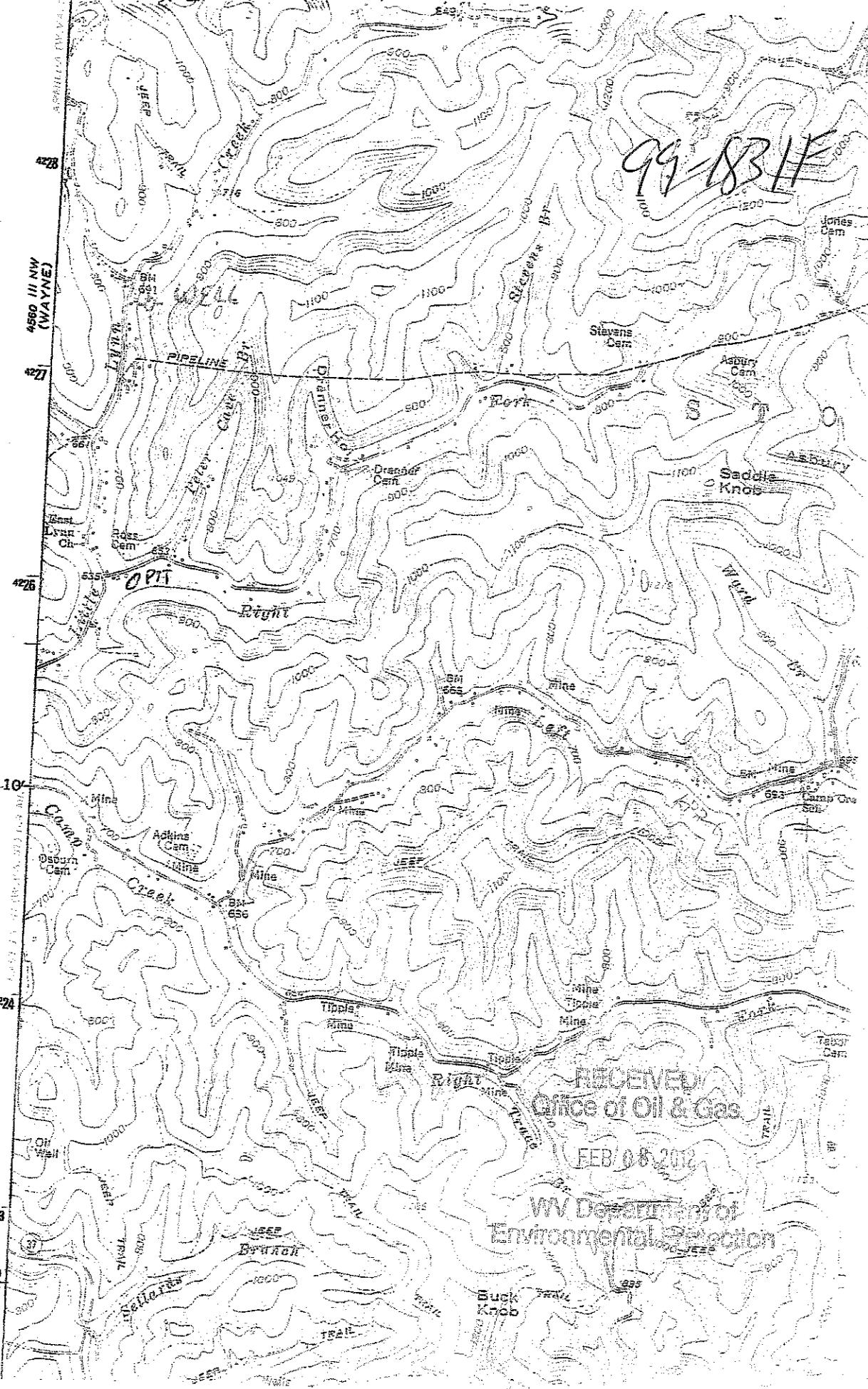
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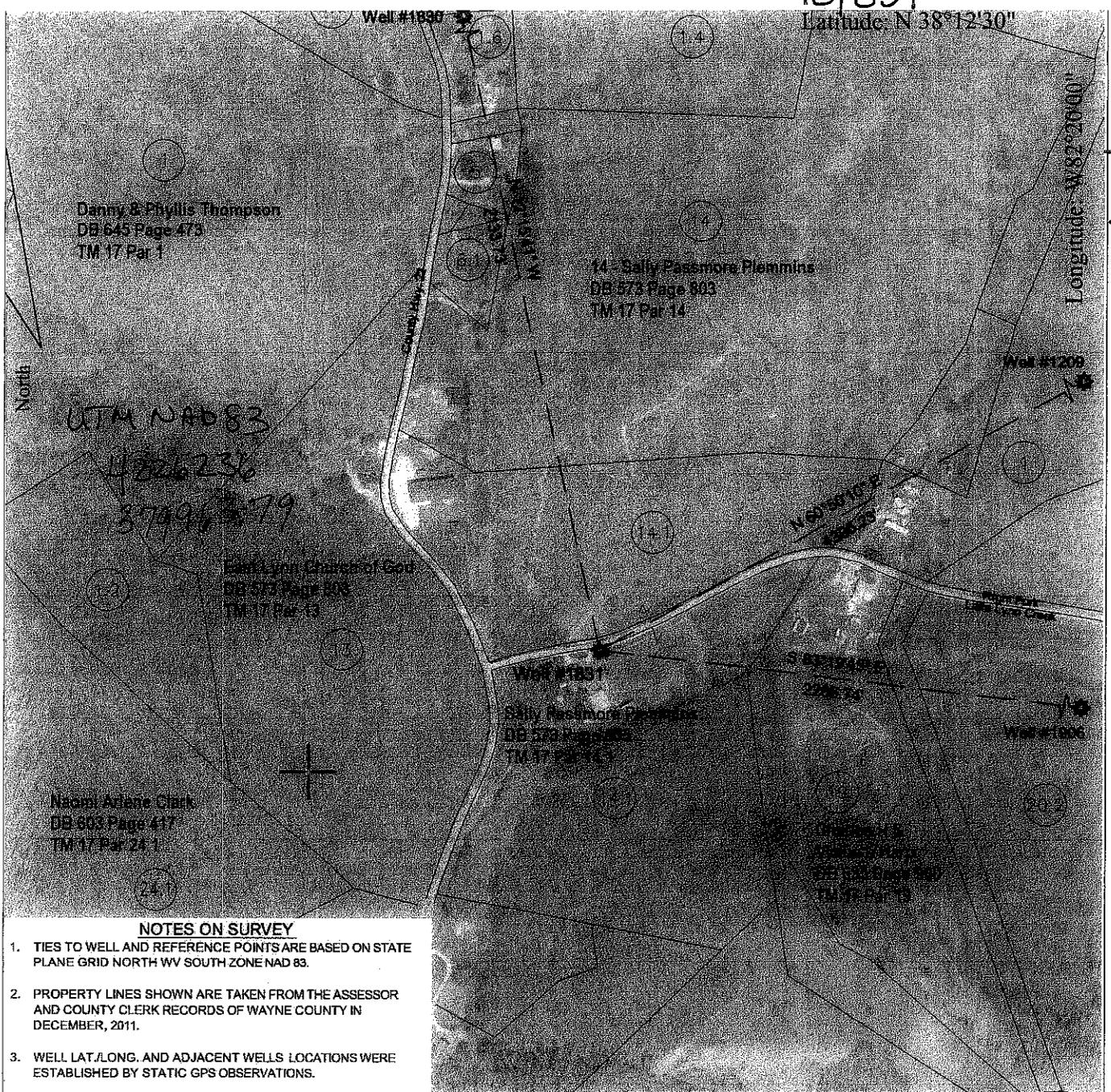
NESTCOW
Q470

420 000
FEET

RECEIVED
Office of Oil & Gas
FEB 08 2012
WV Department of
Environmental Protection

10,837
Latitude: N 38°12'30"

10,599



Danny & Phyllis Thompson
DB 645 Page 473
TM 17 Par 1

14 Sally Plemons
DB 873 Page 303
TM 17 Par 14

UTM NAD 83
4226236
37996879

Naomi Arlene Clark
DB 603 Page 417
TM 17 Par 24-1

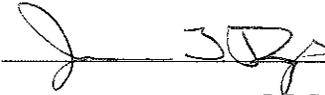
Haney Romans Hess
DB 500 Page 103
TM 17 Par 13

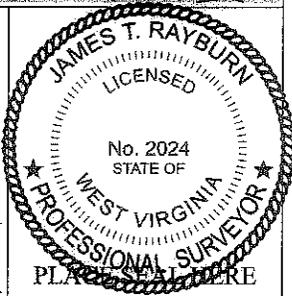
NOTES ON SURVEY

1. TIES TO WELL AND REFERENCE POINTS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD 83.
2. PROPERTY LINES SHOWN ARE TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF WAYNE COUNTY IN DECEMBER, 2011.
3. WELL LAT./LONG. AND ADJACENT WELLS LOCATIONS WERE ESTABLISHED BY STATIC GPS OBSERVATIONS.

FILE #: 1831
 DRAWING #: 1831
 SCALE: 1 inch = 400 feet
 MINIMUM DEGREE OF ACCURACY: 1:5000
 PROVEN SOURCE OF ELEVATION: Static 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: 
 R.P.E.: _____ L.L.S.: 2024



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: December 10, 2011

OPERATOR'S WELL #: 1

API WELL #: 47 099 01831 F
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: Little Lynn Creek ELEVATION: 641.76

COUNTY/DISTRICT: 099-Wayne / 5-Stonewall QUADRANGLE: 504 - NESTLOW

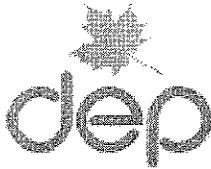
SURFACE OWNER: Sally Plemons ACREAGE: _____

OIL & GAS ROYALTY OWNER: Haney Romans Hess ACREAGE: _____

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): Clean Out

TARGET FORMATION: Devonian Shale ESTIMATED DEPTH: 2805

WELL OPERATOR Bill and Jesse Inc. Address P.O. Box 8213 City Huntington State WV Zip Code 25705
 DESIGNATED AGENT Clyde Smith Address P.O. Box 8213 City Huntington State WV Zip Code 25705



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

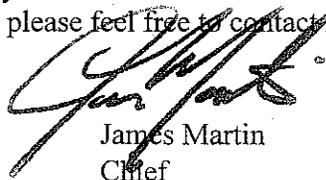
Horizontal Well

This permit, API Well Number: 47-10302742, 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: VERNON JOHNSON 6H

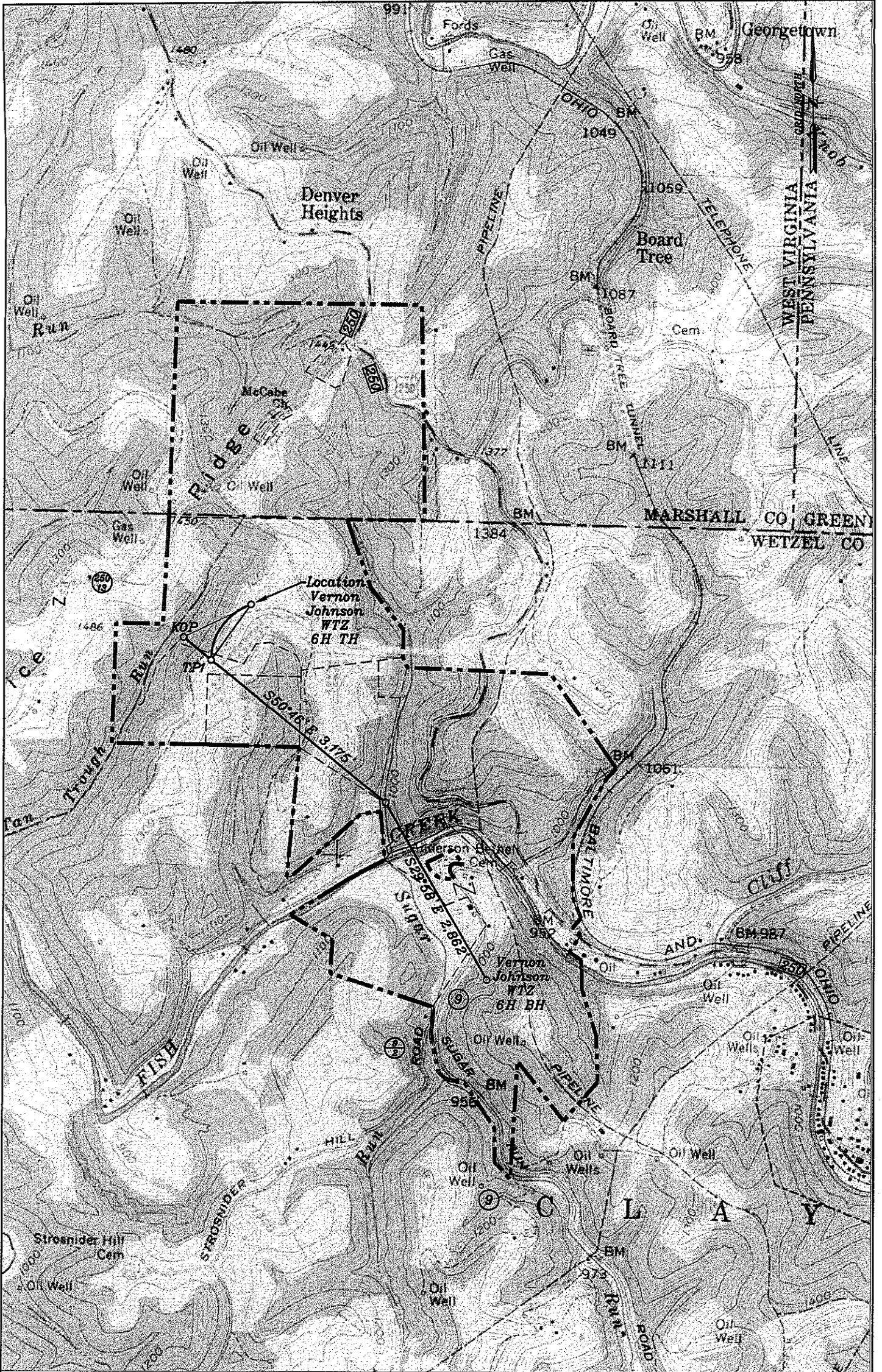
Farm Name: JOHNSON, VERNON

API Well Number: 47-10302742

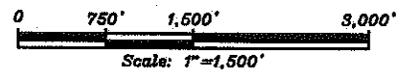
Permit Type: Horizontal Well

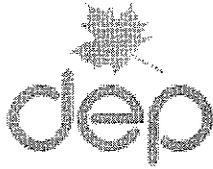
Date Issued: 04/10/2012

Promoting a healthy environment.



Well: Vernon Johnson WTZ 6H
 Quad: Littleton 7 1/2'
 District: Clay
 County: Wetzel





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

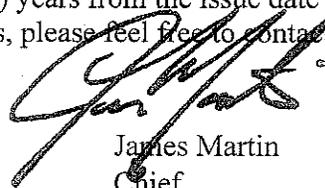
Horizontal Well

This permit, API Well Number: 47-10302748, issued to HG ENERGY, LLC, 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: L. S. HOYT 403 S-6H
Farm Name: DALLISON LUMBER, INC.

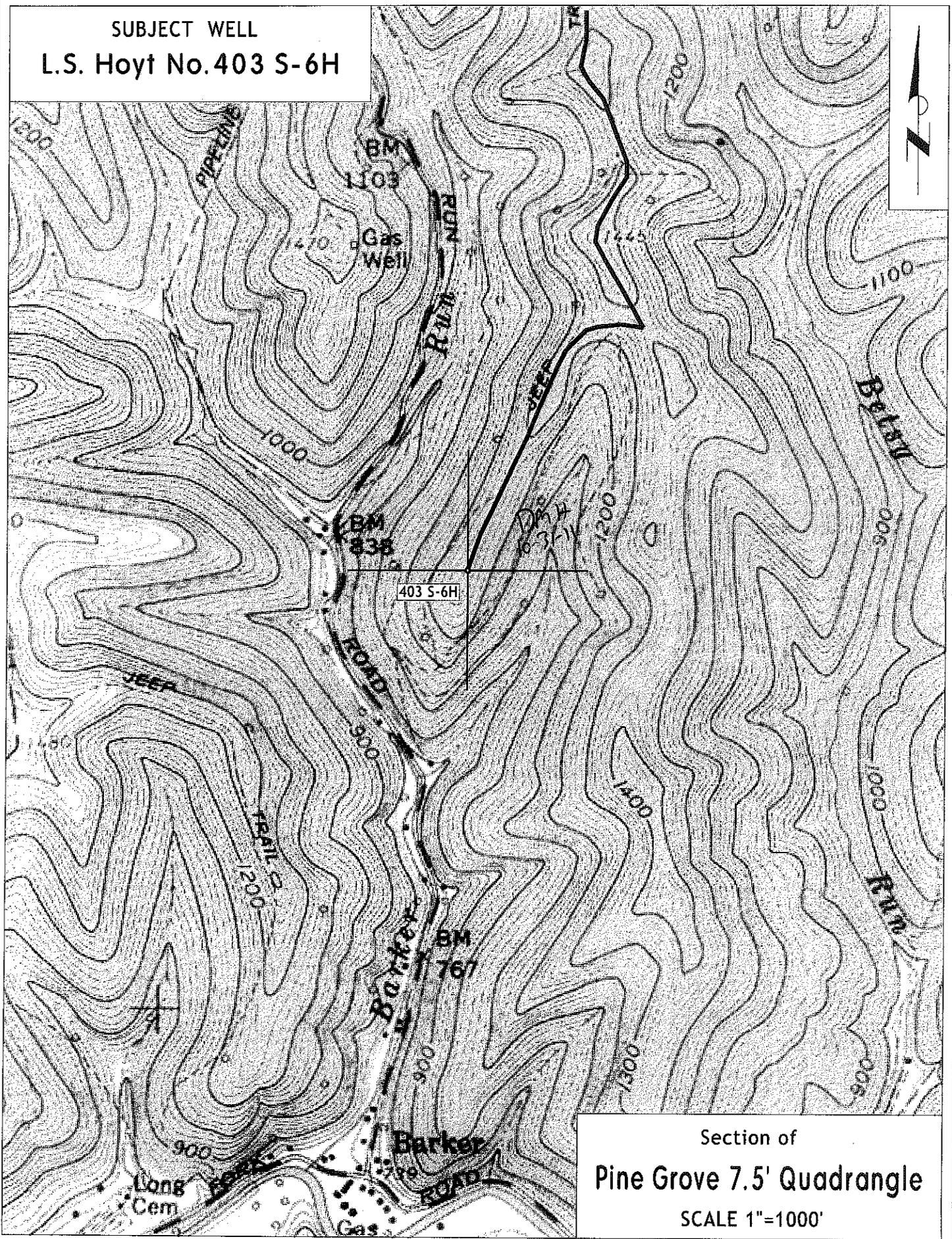
API Well Number: 47-10302748

Permit Type: Horizontal Well

Date Issued: 04/10/2012

Promoting a healthy environment.

SUBJECT WELL
L.S. Hoyt No. 403 S-6H



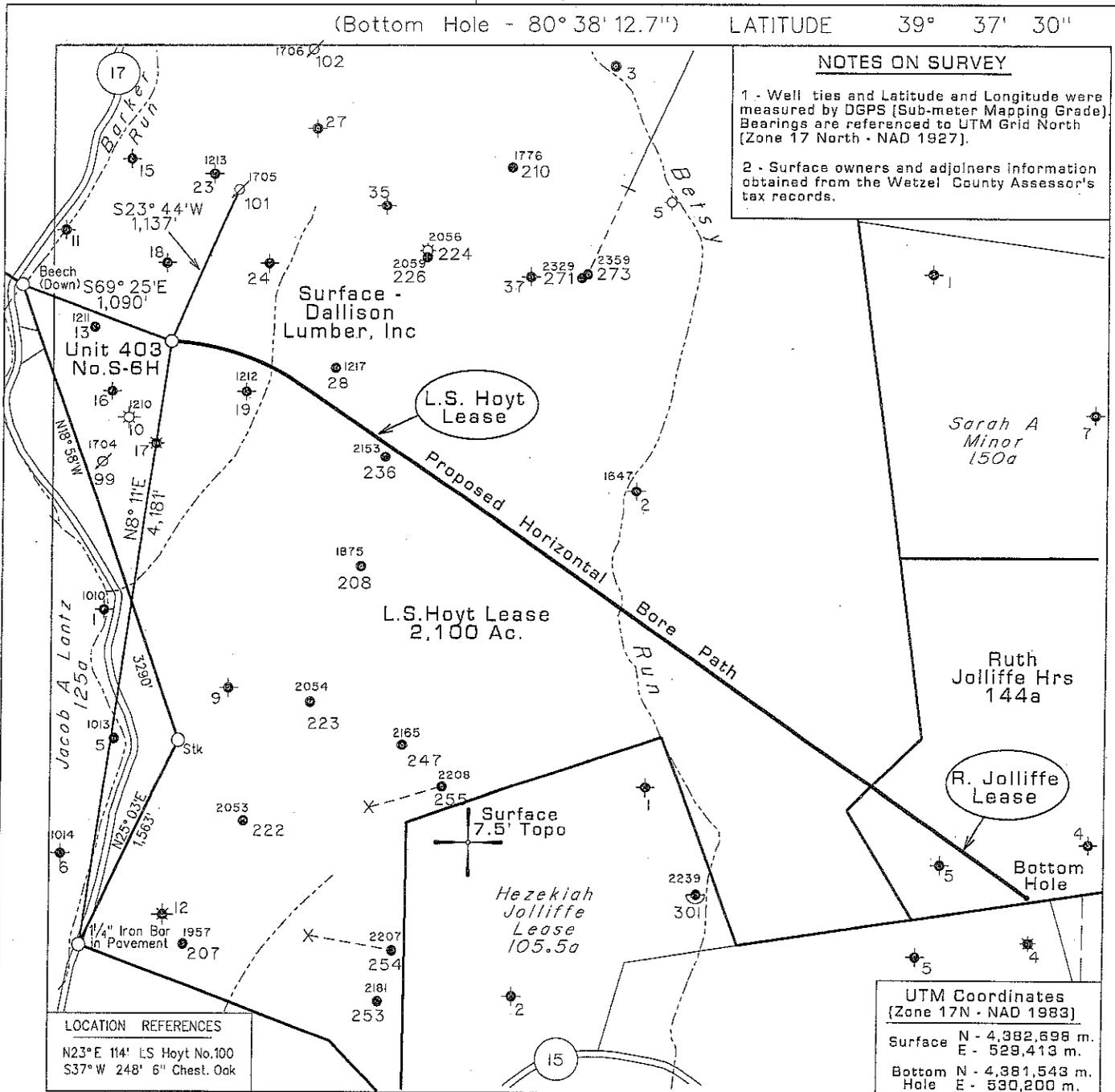
Section of
Pine Grove 7.5' Quadrangle
SCALE 1"=1000'

Longitude - 80° 39' 27.47"

9,193'

(Bottom Hole - 80° 38' 12.7")

LATITUDE 39° 37' 30"



NOTES ON SURVEY

1 - Well ties and Latitude and Longitude were measured by DGPS (Sub-meter Mapping Grade). Bearings are referenced to UTM Grid North (Zone 17 North - NAD 1983).

2 - Surface owners and adjoiners information obtained from the Wetzel County Assessor's tax records.

UTM Coordinates
(Zone 17N - NAD 1983)

Surface N - 4,382,698 m.
E - 529,413 m.

Bottom Hole N - 4,381,543 m.
E - 530,200 m.

LOCATION REFERENCES

N23° E 114' LS Hoyt No.100
S37° W 248' 6" Chest. Oak

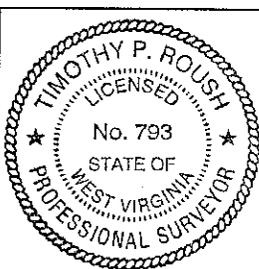
⊕ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. ◆ DENOTES A POSSIBLE WATER SUPPLY SOURCE LOCATED FROM CIRCA 2003 AERIAL PHOTOGRAPHY - NOT BY SURVEY. OTHER SOURCES MAY BE PRESENT.

LONGITUDE 80° 37' 30"
(Bottom Hole - 39° 34' 58.6")
LONGITUDE 80° 37' 30"
Longitude - 39° 35' 36.34"
Latitude - 39° 35' 36.34"

FILE NO. 1047-15
MAP NO. N S E W
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY Sub-Meter
PROVEN SOURCE OF ELEVATION DGPS Survey
(Sub-Meter Mapping Grade)

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 MINES.

(SIGNED) *Timothy P. Roush*
TIMOTHY P. ROUSH PS 793



WEST VIRGINIA
Division of Environmental Protection
Office of Oil and Gas
601 57th Street
Charleston, West Virginia 25304



DATE October 24, 2011
FARM L.S. Hoyt 403 S-6H
API WELL NO. 47-103-02748H

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL HORIZONTAL
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW CBM

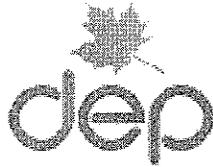
LOCATION: ELEVATION 1,250' WATERSHED Barker Run
DISTRICT Grant COUNTY Wetzel
QUADRANGLE Pine Grove 7.5'

SURFACE OWNER Dallison Lumber Inc. ACREAGE 2099.3 Ac.
OIL & GAS ROYALTY OWNER The Hoyt Foundation et al. LEASE ACREAGE 2100 Ac.
LEASE NO. 99191-00

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

PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION Marcellus Shale ESTIMATED DEPTH 7,075' TVD (14,755' MD)
WELL OPERATOR HG Energy, LLC DESIGNATED AGENT Mike Kirsch
ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519
Vienna, W.Va. 26105 Vienna, W.Va. 26105

FORM IV-B



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

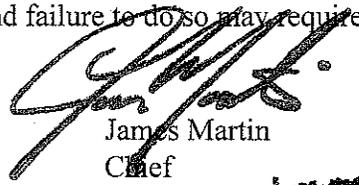
April 03, 2012

WELL REGISTER PERMIT
Assigned Permit Number

This API Well Number: 47-10302765, issued to PERKINS OIL & GAS INC, is evidence of permission to operate the well that is referenced at the location described on the attached plat, subject to the provisions of Chapters 22 and 22B of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder. Spills or emergency discharges must be reported to 1-800-642-3074.

Failure to abide by the statutory and regulatory provisions governing all duties and operations hereunder may result in suspensions or revocation of your permits and in addition may result in civil and/or criminal penalties.

The enclosed WR-35 must be completed by you and returned to this office. In addition annual production reports must be submitted on this well and failure to do so may require you to plug the well.



James Martin
Chief

Operator's Well No: 1
Farm Name: TENNANT, TOY L. AND GARY L.
API Well Number: 47-10302765
Permit Type: Assigned Permit Number
Date Issued: 04/03/2012

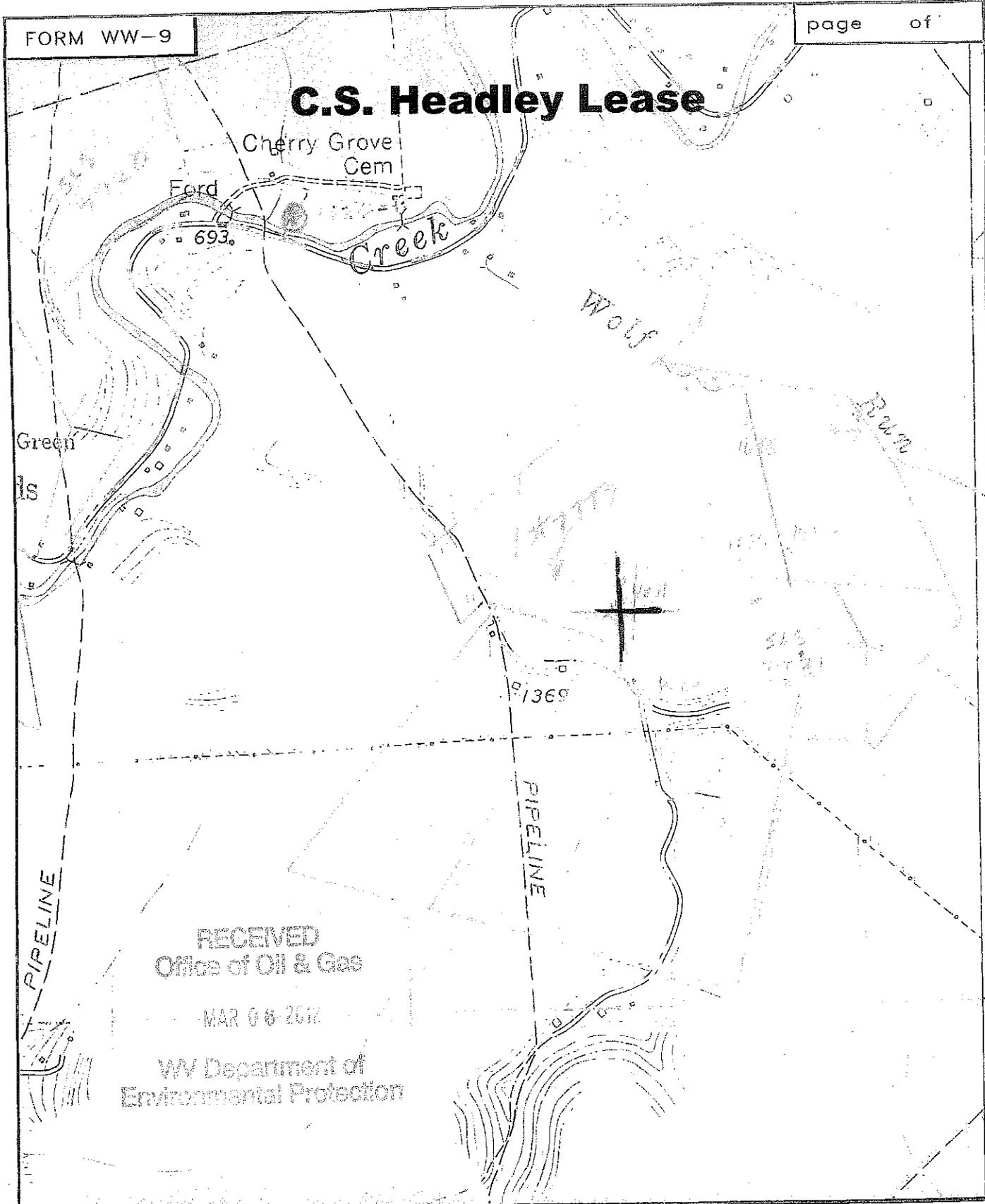
Promoting a healthy environment.

103-02765N

FORM WW-9

page of

C.S. Headley Lease



RECEIVED
Office of Oil & Gas

MAR 06 2012

WV Department of
Environmental Protection



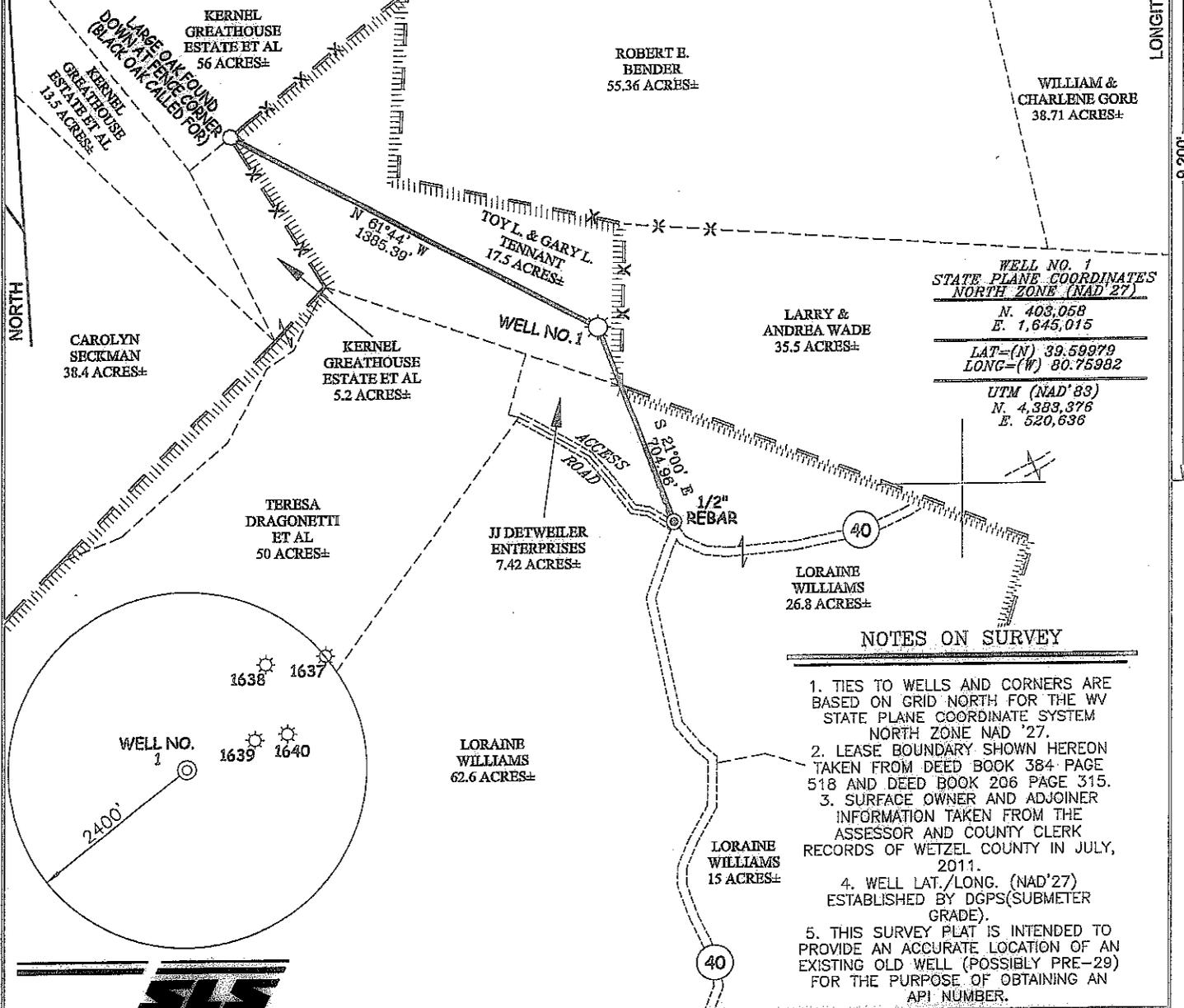
SMITH LAND SURVEYING
P.O. BOX 150 GLENVILLE, WV. 26351

TOPO SECTION OF PORTER FALLS 7.5'

FILE NO. 7779 DATE 3/5/12 SCALE 1"=1000'

PERKINS OIL & GAS C.S. HEADLEY LEASE 182 ACRES± WELL NO. 1

LATITUDE 39°37'30"
LONGITUDE 80°45'00"
2,780'
9,200'

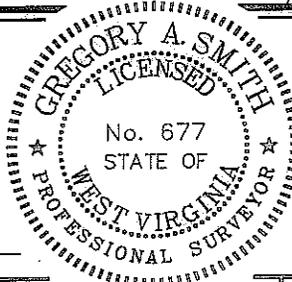


**WELL NO. 1
STATE PLANE COORDINATES
NORTH ZONE (NAD '27)**
N. 408,058
E. 1,645,015
**LAT=(N) 39.59979
LONG=(W) 80.75992**
UTM (NAD '83)
N. 4,383,376
E. 520,636

NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 384 PAGE 518 AND DEED BOOK 206 PAGE 315.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF WETZEL COUNTY IN JULY, 2011.
4. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER GRADE).
5. THIS SURVEY PLAT IS INTENDED TO PROVIDE AN ACCURATE LOCATION OF AN EXISTING OLD WELL (POSSIBLY PRE-29) FOR THE PURPOSE OF OBTAINING AN API NUMBER.

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 JANUARY 17, 20 12
OPERATORS WELL NO. 1
API WELL NO. 47-103-02765N
STATE COUNTY PERMIT

P.S. 677 *Gregory A. Smith*

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 7779P1(399-22,370-70)
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 500'

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

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1218' WATERSHED WOLF RUN OF LITTLE FISHING CREEK
DISTRICT GREEN COUNTY WETZEL QUADRANGLE PORTER FALLS 7.5'

SURFACE OWNER TOY L. & GARY L. TENNANT ACREAGE 17.50±
ROYALTY OWNER BURLINGTON UMFS INC. ET AL (C.S. HEADLEY HEIRS ET AL) ACREAGE 182±
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) N/A *SEE NOTE 5 ABOVE TARGET FORMATION _____ ESTIMATED DEPTH _____

WELL OPERATOR PERKINS OIL & GAS DESIGNATED AGENT CLINTON PERKINS
ADDRESS P.O. BOX 547 ADDRESS P.O. BOX 547
PENNSBORO, WV 26415 PENNSBORO, WV 26415

COUNTY NAME
PERMIT