



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 29, 2013

WELL WORK PERMIT
Horizontal 6A Well

This permit, API Well Number: 47-3305733, issued to STATOIL USA ONSHORE PROPERTIES, 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 completion of permitted well work, 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.

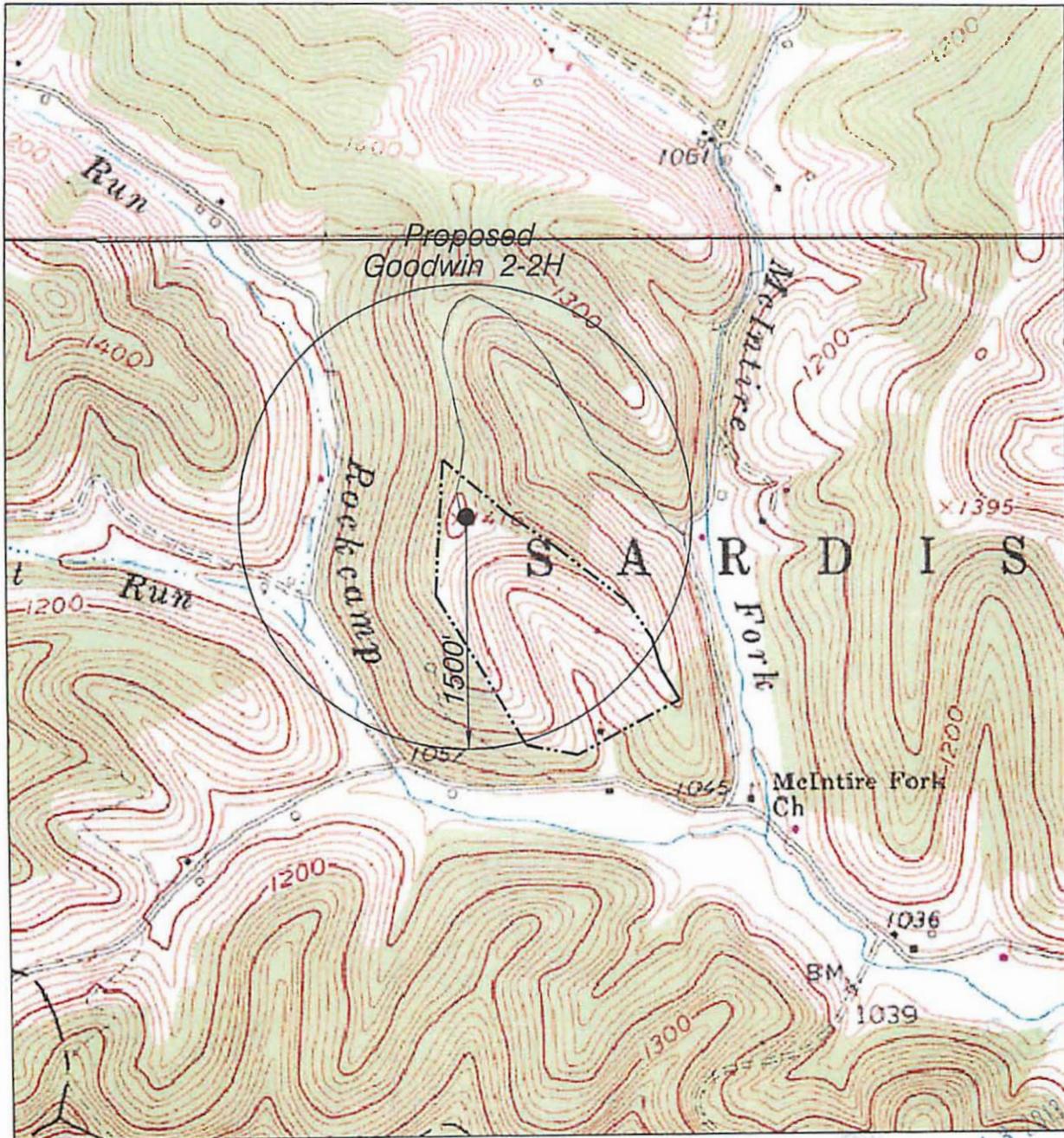
Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: GOODWIN 2-2H
Farm Name: COLLINS, THOMAS AND VANES
API Well Number: 47-3305733
Permit Type: Horizontal 6A Well
Date Issued: 04/29/2013

Promoting a healthy environment.

STATOIL USA ONSHORE PROPERTIES INC. GOODWIN 2-2H WATER



HUPP Surveying & Mapping

P.O. BOX 647 GRANTSVILLE, WV 26147
PH:(304)354-7035 E-MAIL: hupp@frontiernet.net

1" = 1000'
Salem Quad

STATOIL USA ONSHORE PROPERTIES INC.
2103 CITYWEST BLVD. SUITE 800
HOUSTON, TX 77042

GOODWIN 2-2H

LONGITUDE 80°30'00"

LAT. 39°22'12.1"

GOODWIN 2-2H SURFACE HOLE	
STATE PLANE COORDINATES	L & L DECIMAL
NORTH ZONE -NAD 27	NAD 27
(N) 318527	39.37003
(E) 1710840	80.82247
UTM (NAD 27)	UTM (NAD 83)
ZONE 17	ZONE 17
US FEET	METERS
14287020	4357859
1775374	541150

COASTAL FOREST RESOURCES CO.
294.5 ACRES±

6" DOGWOOD
N 19° W
334'

SWIGER
113.33 ACRES±

GOODWIN 2-2H
TARGET POINT

S 16° W
577'
40" YELLOW POPLAR

S 13° E
497'
AZI=167°

COLLINS
35.50 ACRES±

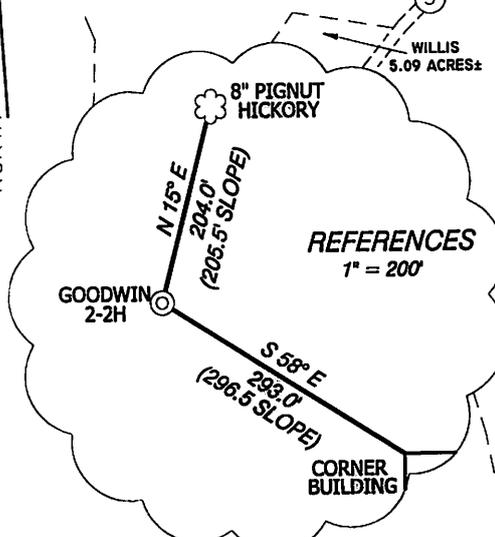
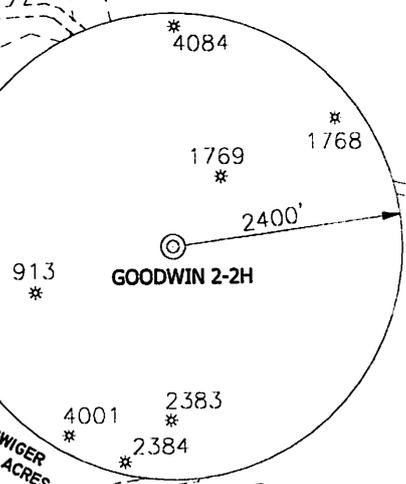
COLLINS
0.80 ACRES±

SWIGER
122.93 ACRES±

GOODWIN 2-2H LANDING POINT	
STATE PLANE COORDINATES	L & L DECIMAL
NORTH ZONE -NAD 27	NAD 27
(N) 318043	39.38870
(E) 1711050	80.82206
UTM (NAD 27)	UTM (NAD 83)
ZONE 17	ZONE 17
US FEET	METERS
14286538	4357812
1775492	541186

GOODWIN 2-2H BOTTOM HOLE	
STATE PLANE COORDINATES	L & L DECIMAL
NORTH ZONE -NAD 27	NAD 27
(N) 311185	39.34994
(E) 1713281	80.81400
UTM (NAD 27)	UTM (NAD 83)
ZONE 17	ZONE 17
US FEET	METERS
14289720	4355734
1777808	541891

CASTILLO
220.37 ACRES±



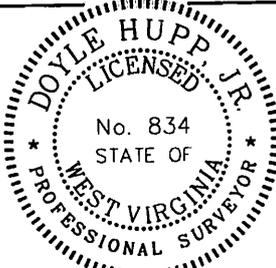
REFERENCES
1" = 200'

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 05-04-10.
LEASE BOUNDARY SHOWN HEREON TAKEN FROM INFORMATION PROVIDED BY PETROEDGE ENERGY LLC.
SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF HARRISON COUNTY IN MAY 2010 AND INFORMATION PROVIDED BY PETROEDGE ENERGY LLC.
WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).
ORIGINAL PLAT DATE OF JULY 16, 2010.

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. 8.34
Doyle Hupp Jr.
HUPP Surveying & Mapping
P.O. Box 647 Grantsville, WV 26147
(304) 354-7035 EMAIL: hupp@trianternet.net



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

DATE JANUARY 8, 2013

OPERATORS WELL NO. GOODWIN 2-2H

API WELL NO. 47-033-05733 H6A
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. W1977 (BK44-39)
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 INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION : ELEVATION 1384' WATERSHED ROCKCAMP RUN

DISTRICT SARDIS COUNTY HARRISON QUADRANGLE SALEM 7.5'

SURFACE OWNER THOMAS & VANESSA COLLINS ACREAGE 35.5±

ROYALTY OWNER THOMAS COLLINS, et al LEASE ACREAGE 600.57±

PROPOSED WORK : LEASE NO.

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD

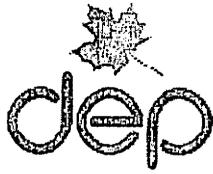
FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION MARCELLUS

ESTIMATED DEPTH 7,760' TVD 15,100' MVD

WELL OPERATOR STATOIL USA ONSHORE PROPERTIES INC. DESIGNATED AGENT WILLIAM T. FAHEY

ADDRESS 2103 CITYWEST BLVD., SUITE 800, HOUSTON, TX 77042 ADDRESS 2116 PENNSYLVANIA AVENUE, WEIRTON, WV 26062



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Earl Ray Tomblin, Governor
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April 30, 2013

WELL WORK PERMIT

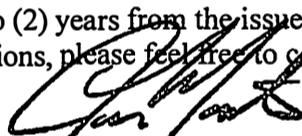
Horizontal 6A Well

This permit, API Well Number: 47-9101281, issued to PDC MOUNTAINEER 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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James Martin
Chief

Operator's Well No: ARMSTRONG / REYNOLDS 2HM
Farm Name: RIDENOUR, PAULINE W.

API Well Number: 47-9101281

Permit Type: Horizontal 6A Well

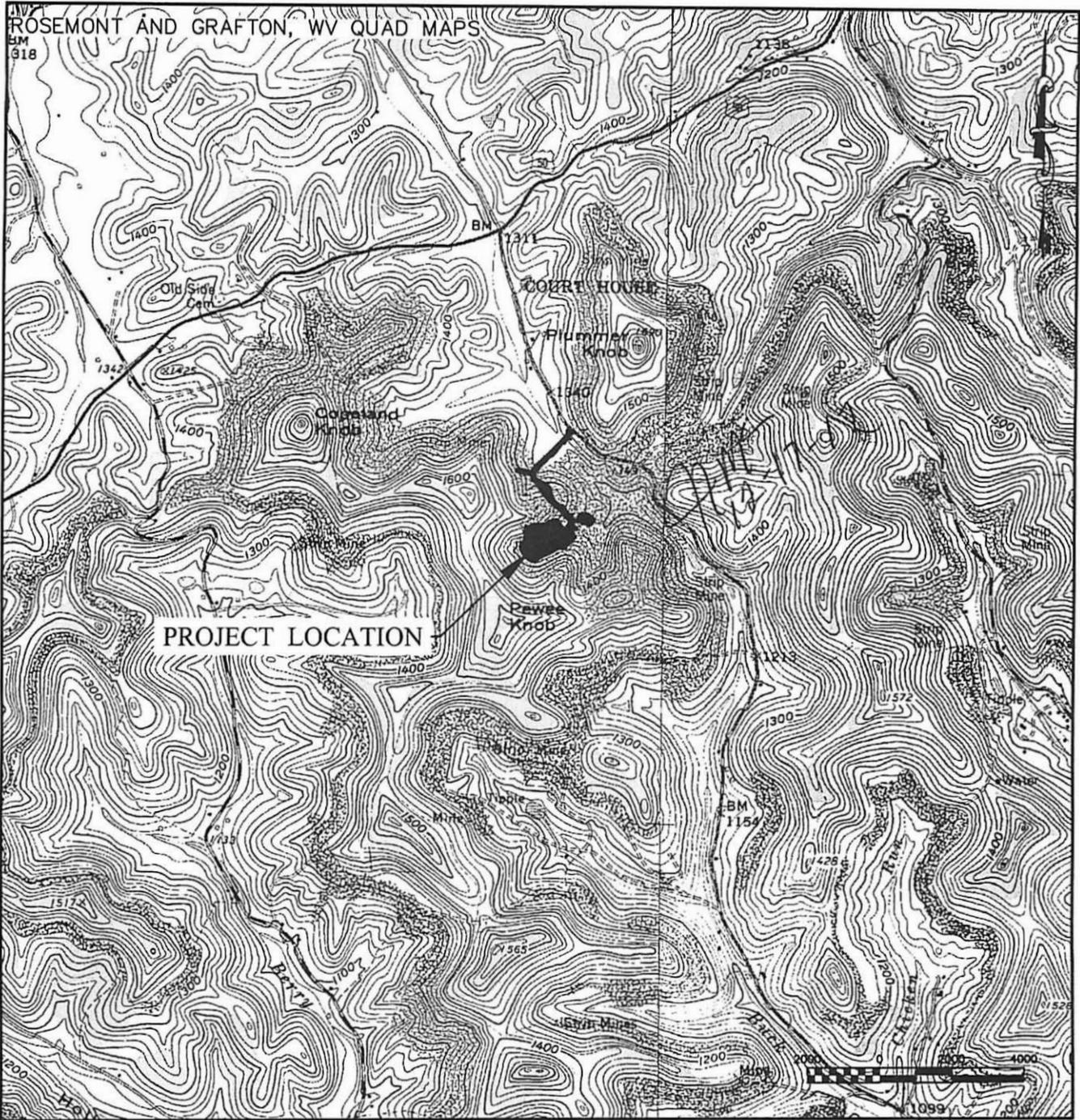
Date Issued: 04/30/2013

Promoting a healthy environment.

VCPC
91-01281 4-29

ARMSTRONG-REYNOLDS 1HM, 2HM, 3HM, AND 4HM

SITE MAP



PDC MOUNTAINEER

PHONE
(304) 624-4108

THRASHER
ENGINEERING

(FAX)
(304) 624-7831

CIVIL • ENVIRONMENTAL • CONSULTING • FIELD SERVICES
30 COLUMBIA BOULEVARD - CLARKSBURG, WV 26301

DEC 21 2012

PDC MOUNTAINEER, LLC.
WELL NO. ARMSTRONG/REYNOLDS 2HM

NOTES:

-PLAT ORIENTATION, CORNERS, AND WELL REFERENCES ARE BASED UPON THE GRID NORTH MERIDIAN FOR THE WV STATE PLANE COORDINATE SYSTEM, NORTH ZONE NAD 83. WELL LOCATION REFERENCE TIES ARE BASED UPON THE MAGNETIC MERIDIAN.

-THERE ARE NO WATER WELLS LOCATED WITHIN 250' OF WELL 2HM.

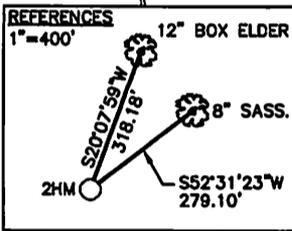
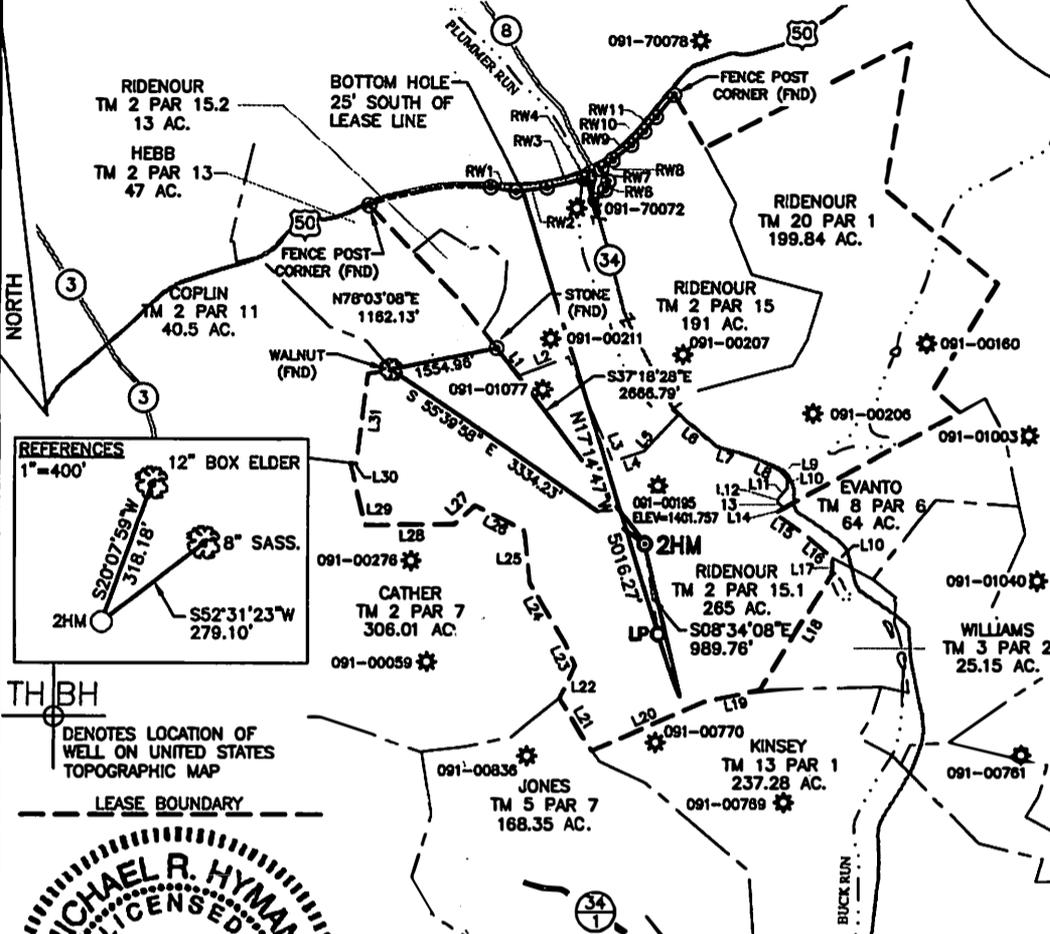
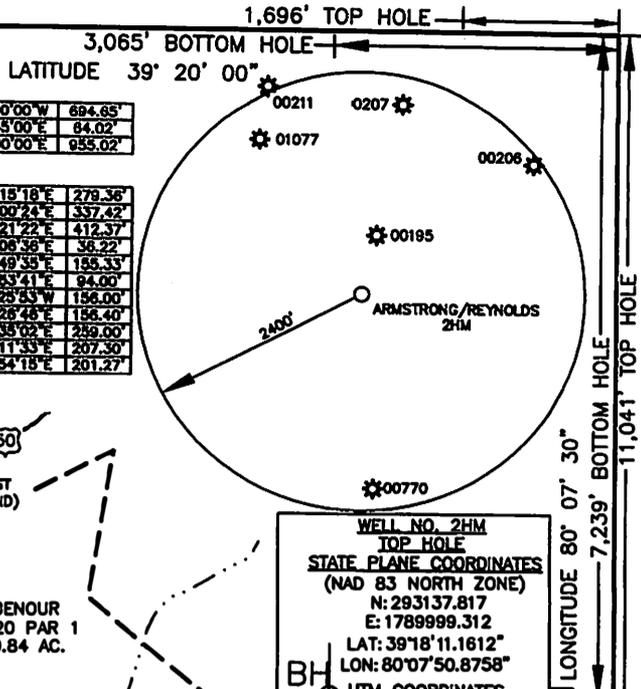
● = MONUMENT FOUND IRON REBAR UNLESS NOTED OTHERWISE

L1	S36°45'00"E	394.00'
L2	N71°57'00"E	567.00'
L3	S19°17'00"E	1243.00'
L4	N74°57'00"E	385.00'
L5	N47°11'00"E	548.00'
L6	S46°55'00"E	549.00'
L7	S70°30'00"E	437.00'

L8	S60°15'00"E	300.00'
L9	S38°15'00"E	108.00'
L10	S02°24'00"W	105.00'
L11	S44°13'00"W	138.00'
L12	S25°18'00"W	43.00'
L13	S43°44'00"E	97.00'
L14	S64°27'00"W	123.00'
L15	S51°10'00"E	427.35'
L16	S47°30'00"E	368.46'
L17	S21°45'00"E	225.39'
L18	S35°05'00"W	1505.95'
L19	S82°18'00"W	603.41'
L20	S70°05'00"W	1351.02'
L21	N28°07'00"W	670.07'
L22	N28°57'00"E	388.96'
L23	N31°22'00"W	259.68'
L24	N26°30'00"W	784.22'
L25	N03°00'00"W	843.64'
L26	N56°18'00"W	608.38'
L27	S49°30'00"W	310.53'
L28	N87°09'00"W	980.14'

L29	N10°00'00"W	694.85'
L30	S81°45'00"E	84.02'
L31	N11°00'00"E	655.02'

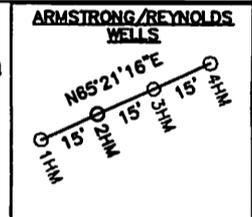
RW1	S80°18'18"E	279.36'
RW2	N82°00'24"E	337.42'
RW3	N78°21'22"E	412.37'
RW4	N75°00'36"E	36.22'
RW5	N41°49'35"E	156.33'
RW6	N20°53'41"E	94.00'
RW7	N30°28'53"W	156.00'
RW8	N83°28'46"E	156.40'
RW9	N80°38'02"E	259.00'
RW10	N43°11'33"E	207.30'
RW11	N38°54'18"E	201.27'



WELL NO. 2HM TOP HOLE
STATE PLANE COORDINATES (NAD 83 NORTH ZONE)
N: 293137.817
E: 1789999.312
LAT: 39°18'11.1612"
LON: 80°07'50.8758"
UTM COORDINATES (NAD 83-METER)
N: 4350772.924
E: 574944.054

WELL NO. 2HM LAUNCH POINT
STATE PLANE COORDINATES (NAD 83 NORTH ZONE)
N: 292159.108
E: 1790148.782
LAT: 39°18'01.4981"
LON: 80°07'48.9124"
UTM COORDINATES (NAD 83-METER)
N: 4350475.487
E: 574993.943

WELL NO. 2HM BOTTOM HOLE
STATE PLANE COORDINATES (NAD 83 NORTH ZONE)
N: 296949.837
E: 1788659.544
LAT: 39°18'48.7447"
LON: 80°08'08.2828"
UTM COORDINATES (NAD 83-METER)
N: 4351927.545
E: 574516.547



TH BH DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAP

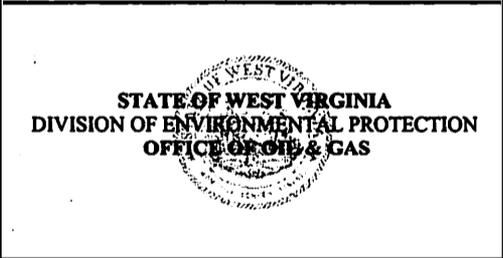
--- LEASE BOUNDARY



Michael R. Hyman, P.S. 983

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 RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

FILE NO. 030-2175
SCALE: 1"=2000'
MINIMUM DEGREE OF ACCURACY: 1 in 2500
PROVEN SOURCE OF ELEVATION: OPUS SURVEY GRADE GPS

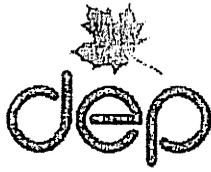


DATE NOVEMBER 26, 2012
OPERATOR'S WELL NO. ARMSTRONG/REYNOLDS NO. 2HM
API WELL NO. 47 - 091 - 01281 H6A
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL (IF "GAS"), PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1410.42' WATER SHED: BUCK RUN
DISTRICT: FLEMINGTON COUNTY: TAYLOR
QUADRANGLE: ROSEMONT 7.5' ACREAGE: 265 AC±
SURFACE OWNER: PAULINE W. RIDENOUR LEASE ACREAGE: 735 AC+
OIL & GAS ROYALTY OWNER: EUGENE ARMSTRONG & T. MARIE REYNOLDS LEASE NO. _____
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PERFORATE NEW FORMATION PLUG OFF OLD FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
TARGET FORMATION: MARCELLUS SHALE ESTIMATED DEPTH: 7,912' TVD / 13,700' MD



WELL OPERATOR: PDC MOUNTAINEER, LLC. **DESIGNATED AGENT:** JAMIE HAGA
ADDRESS: 120 GENESIS BOULEVARD BRIDGEPORT, WV 26330 **ADDRESS:** 120 GENESIS BOULEVARD BRIDGEPORT, WV 26330



west virginia department of environmental protection

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601 57th Street SE
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April 30, 2013

WELL WORK PERMIT

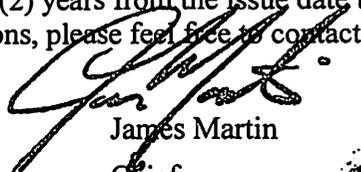
Horizontal 6A Well

This permit, API Well Number: 47-9101278, issued to PDC MOUNTAINEER 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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James Martin
Chief

Operator's Well No: ARMSTRONG / REYNOLDS 1HM
Farm Name: RIDENOUR, PAULINE W.

API Well Number: 47-9101278

Permit Type: Horizontal 6A Well

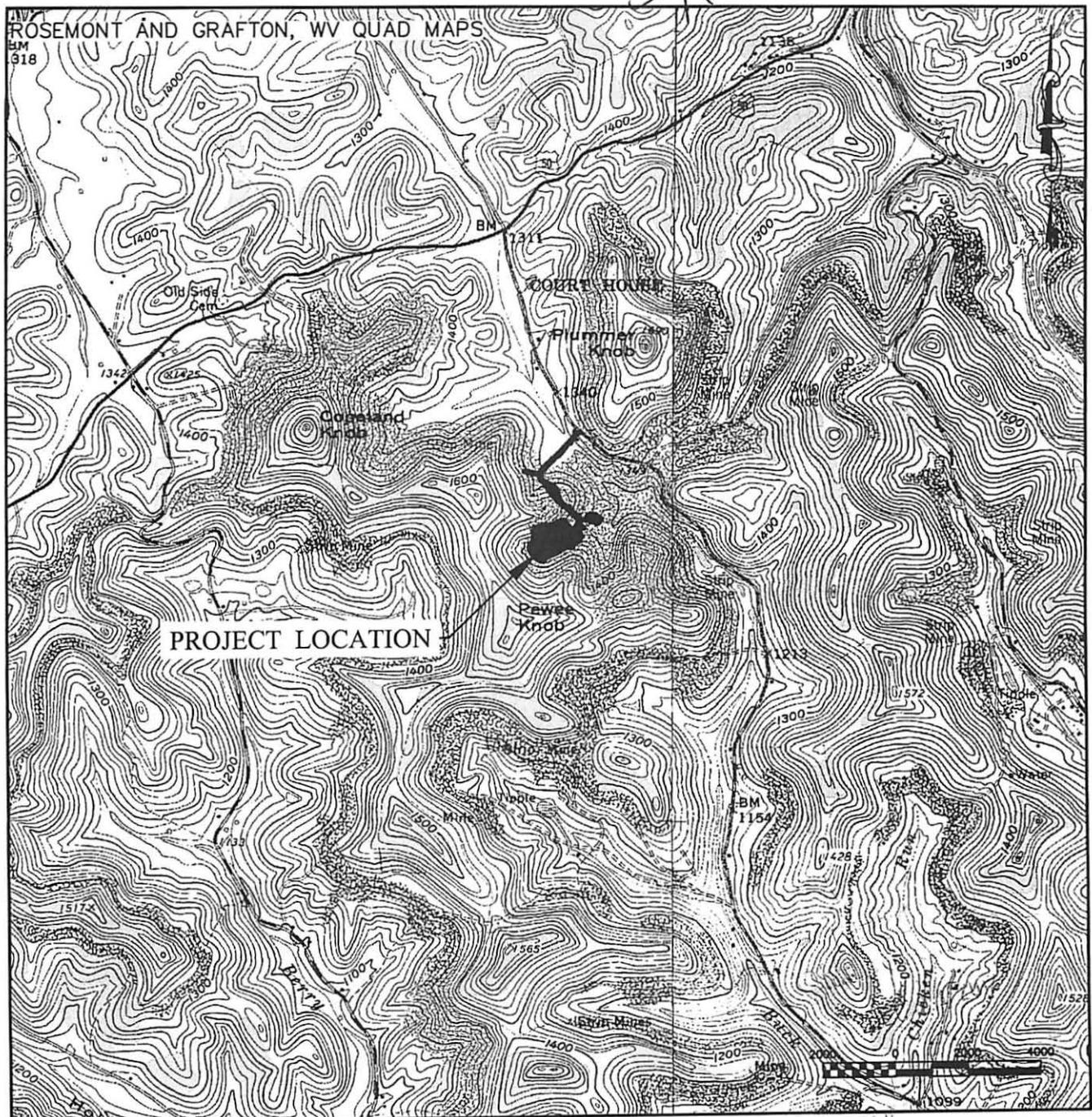
Date Issued: 04/30/2013

Promoting a healthy environment.

ARMSTRONG-REYNOLDS 1HM, 2HM, 3HM, AND 4HM

SITE MAP

JAM *Count*
12-17-12



PDC MOUNTAINEER

THRASHER
ENGINEERING

PHONE
(304) 624-4108

(FAX)
(304) 624-7831

CIVIL • ENVIRONMENTAL • CONSULTING • FIELD SERVICES
30 COLUMBIA BOULEVARD - CLARKSBURG, WV 26301



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April 30, 2013

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Chief

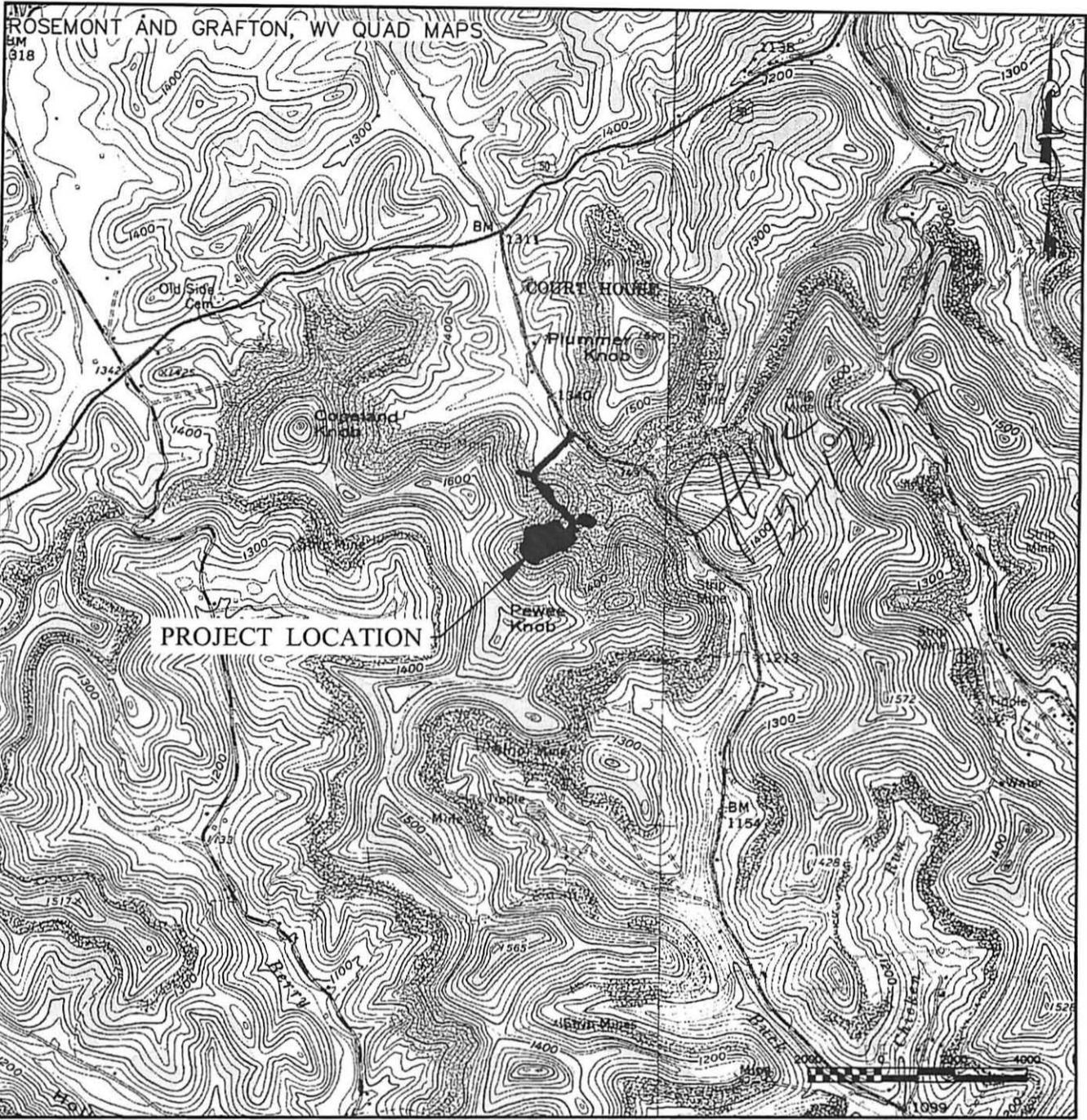
Operator's Well No: ARMSTRONG / REYNOLDS 3HM
Farm Name: RIDENOUR, PAULINE W.
API Well Number: 47-9101279
Permit Type: Horizontal 6A Well
Date Issued: 04/30/2013

Promoting a healthy environment.

91-01279
4-29-13

ARMSTRONG-REYNOLDS 1HM, 2HM, 3HM, AND 4HM

SITE MAP



PDC MOUNTAINEER

PHONE
(304) 624-4108

THRASHER
ENGINEERING

(FAX)
(304) 624-7831

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Randy C. Huffman, Cabinet Secretary
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April 30, 2013

WELL WORK PERMIT
Horizontal 6A Well

This permit, API Well Number: 47-9101280, issued to PDC MOUNTAINEER 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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James Martin
Chief

Operator's Well No: ARMSTRONG / REYNOLDS 4HM
Farm Name: RIDENOUR, PAULINE W.

API Well Number: 47-9101280

Permit Type: Horizontal 6A Well

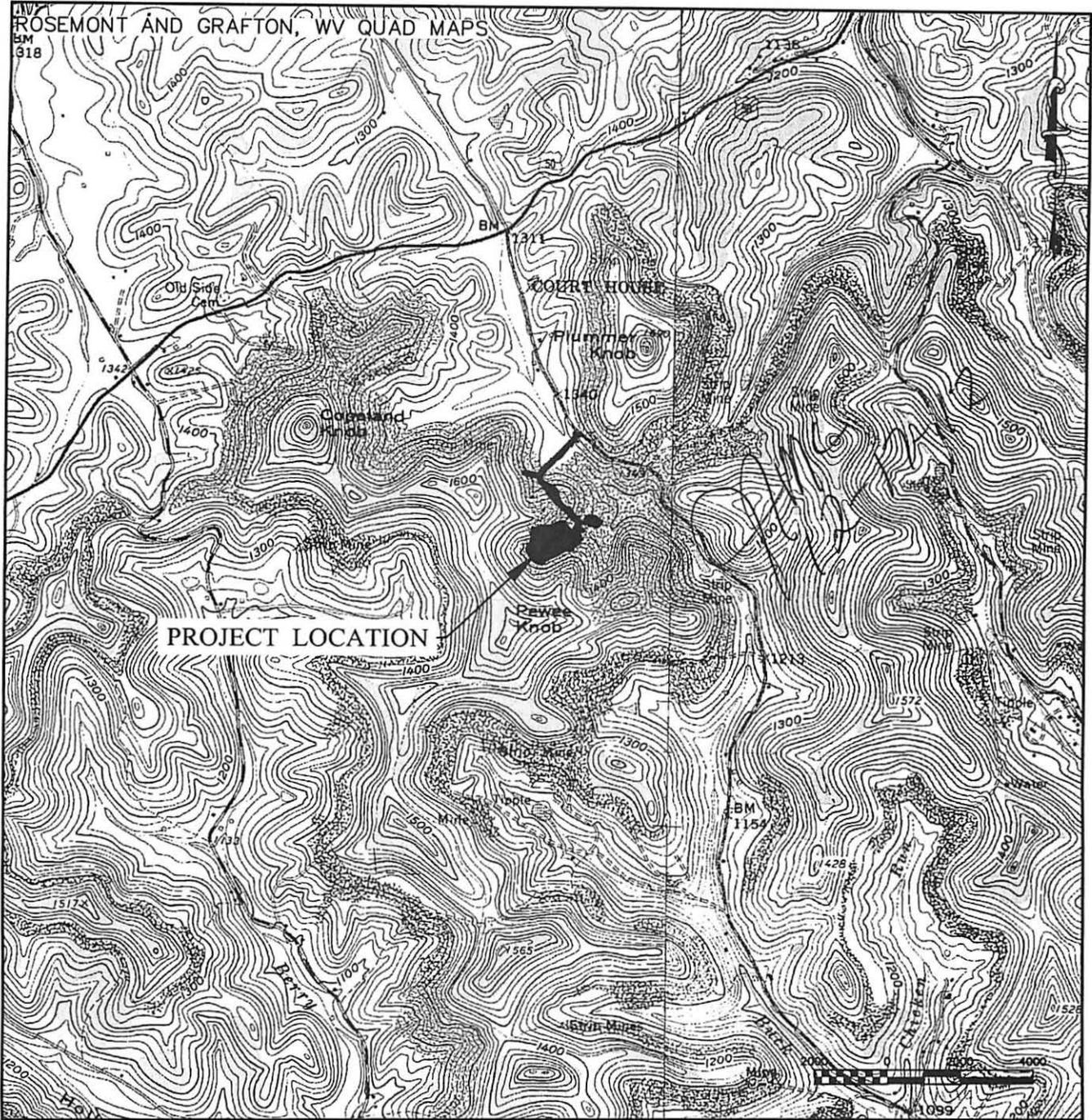
Date Issued: 04/30/2013

Promoting a healthy environment.

91-01280 4-29-13

ARMSTRONG-REYNOLDS 1HM, 2HM, 3HM, AND 4HM

SITE MAP



PDC MOUNTAINEER

PHONE
(304) 624-4108

THRASHER
ENGINEERING

(FAX)
(304) 624-7831

CIVIL • ENVIRONMENTAL • CONSULTING • FIELD SERVICES
30 COLUMBIA BOULEVARD - CLARKSBURG, WV 26301

PDC MOUNTAINEER, LLC.
WELL NO. ARMSTRONG/REYNOLDS 4HM

NOTES:
-PLAT ORIENTATION, CORNERS, AND WELL REFERENCES ARE BASED UPON THE GRID NORTH MERIDIAN FOR THE WV STATE PLANE COORDINATE SYSTEM, NORTH ZONE NAD 83. WELL LOCATION REFERENCE TIES ARE BASED UPON THE MAGNETIC MERIDIAN.

-THERE ARE NO WATER WELLS LOCATED WITHIN 250' OF WELL 4HM.

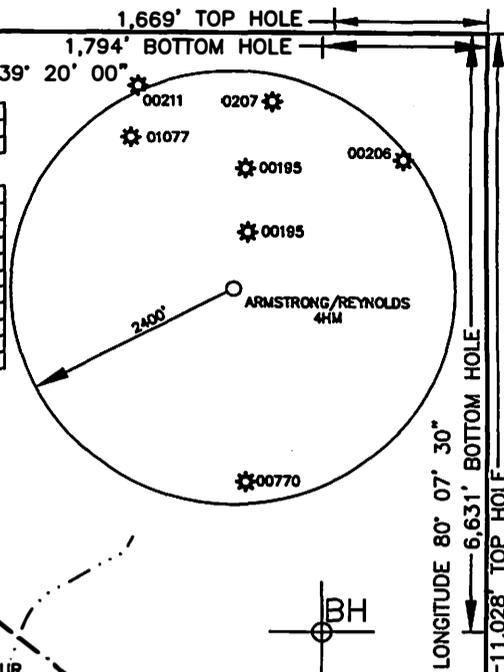
⊙ = MONUMENT FOUND IRON REBAR UNLESS NOTED OTHERWISE.

L1	S36°45'00"E	394.00'
L2	N71°57'00"E	567.00'
L3	S19°17'00"E	1243.00'
L4	N74°57'00"E	355.00'
L5	N47°11'00"E	548.00'
L6	S46°55'00"E	548.00'
L7	S70°30'00"E	437.00'

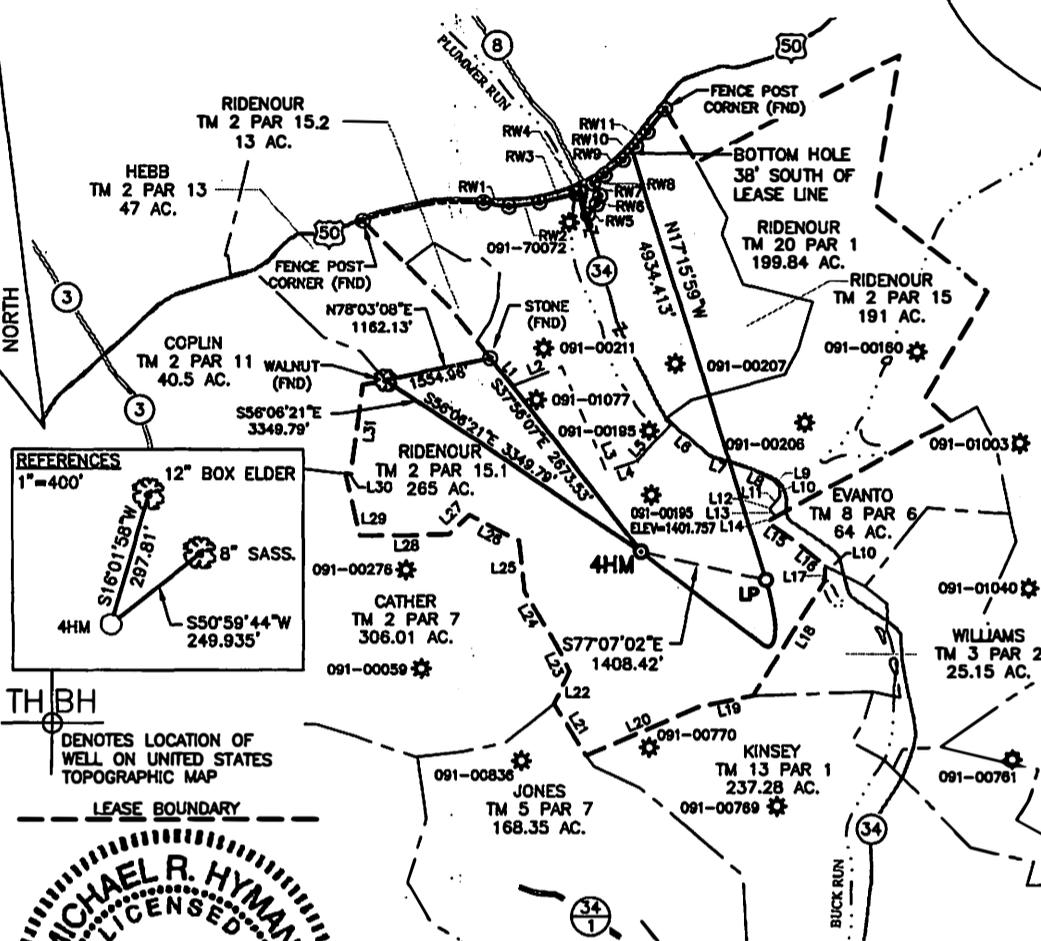
L8	S80°15'00"E	300.00'
L9	S38°15'00"E	108.00'
L10	S02°24'00"W	105.00'
L11	S44°13'00"W	138.00'
L12	S25°18'00"W	43.00'
L13	S43°44'00"E	97.00'
L14	S84°27'00"W	123.00'
L15	S51°10'00"E	427.35'
L16	S47°30'00"E	388.46'
L17	S21°45'00"E	228.39'
L18	S35°05'00"W	1505.69'
L19	S82°18'00"W	603.41'
L20	S70°05'00"W	1351.02'
L21	N28°07'00"W	670.07'
L22	N26°57'00"E	399.99'
L23	N21°22'00"W	249.59'
L24	N26°30'00"W	784.22'
L25	N03°00'00"W	843.84'
L26	N58°18'00"W	805.38'
L27	S48°30'00"W	310.53'
L28	N87°09'00"W	980.14'

L29	N10°00'00"W	694.65'
L30	S81°45'00"E	84.02'
L31	N11°00'00"E	855.02'
RW1	S80°15'18"E	279.36'
RW2	N82°00'24"E	337.42'
RW3	N76°21'22"E	412.37'
RW4	N75°09'36"E	36.22'
RW5	N41°49'35"E	155.33'
RW6	N20°53'41"E	94.00'
RW7	N30°29'53"W	158.00'
RW8	N53°28'46"E	158.40'
RW9	N50°35'02"E	259.00'
RW10	N43°11'33"E	207.30'
RW11	N36°54'15"E	201.27'

1,669' TOP HOLE
1,794' BOTTOM HOLE
LATITUDE 39° 20' 00"



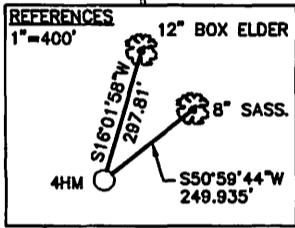
LONGITUDE 80° 07' 30"
6,631' BOTTOM HOLE
11,028' TOP HOLE



WELL NO. 4HM TOP HOLE
STATE PLANE COORDINATES (NAD 83 NORTH ZONE)
N: 293150.327
E: 1790026.579
LAT: 39°18'11.2867"
LON: 80°07'50.5300"
UTM COORDINATES (NAD 83-METER)
N: 4350776.873
E: 574952.298

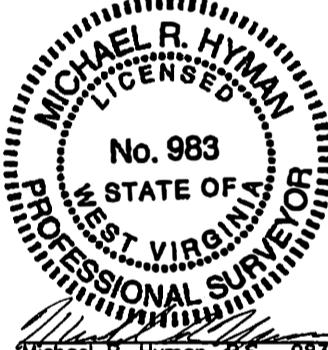
WELL NO. 4HM LAUNCH POINT
STATE PLANE COORDINATES (NAD 83 NORTH ZONE)
N: 292836.314
E: 1791399.540
LAT: 39°18'08.2780"
LON: 80°07'33.0360"
UTM COORDINATES (NAD 83-METER)
N: 4350688.160
E: 575372.191

WELL NO. 4HM BOTTOM HOLE
STATE PLANE COORDINATES (NAD 83 NORTH ZONE)
N: 297548.356
E: 1789934.928
LAT: 39°18'54.7492"
LON: 80°07'52.0890"
UTM COORDINATES (NAD 83-METER)
N: 4352116.361
E: 574902.086

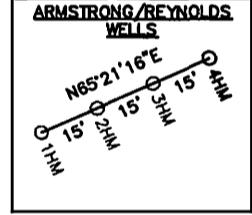


THBH DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAP

--- LEASE BOUNDARY ---



POINT OF PROVEN ELEVATION
47-091-00195
LAT: 39°18'17.3934"
LON: 80°07'49.1072"
ELEV=1401.757



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 RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

FILE NO. <u>030-2175</u>		DATE <u>NOVEMBER 26</u> , 2012
SCALE: <u>1"=2000'</u>		OPERATOR'S WELL NO. <u>ARMSTRONG/REYNOLDS NO. 4HM</u>
MINIMUM DEGREE OF ACCURACY: <u>1 in 2500</u>		API WELL NO. <u>47 - 091 - 01280 H6A</u>
PROVEN SOURCE OF ELEVATION: <u>OPUS SURVEY GRADE GPS</u>		STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1410.42' WATER SHED: BUCK RUN

DISTRICT: FLEMINGTON COUNTY: TAYLOR

QUADRANGLE: ROSEMONT 7.5' ACREAGE: 265 AC±

SURFACE OWNER: PAULINE W. RIDENOUR LEASE ACREAGE: 735 AC+

OIL & GAS ROYALTY OWNER: EUGENE ARMSTRONG & T. MARIE REYNOLDS LEASE NO. _____

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



PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____

TARGET FORMATION: MARCELLUS SHALE ESTIMATED DEPTH: 7,912' TVD / 13,760' MD

WELL OPERATOR: PDC MOUNTAINEER, LLC. DESIGNATED AGENT: JAMIE HAGA

ADDRESS: 120 GENESIS BOULEVARD BRIDGEPORT, WV 26330 ADDRESS: 120 GENESIS BOULEVARD BRIDGEPORT, WV 26330



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 30, 2013

WELL WORK PERMIT

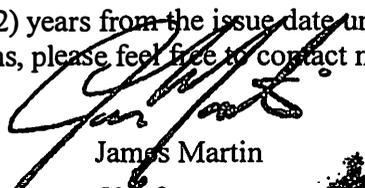
Horizontal 6A Well

This permit, API Well Number: 47-4902251, issued to TRANS ENERGY, 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 completion of permitted well work, 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.

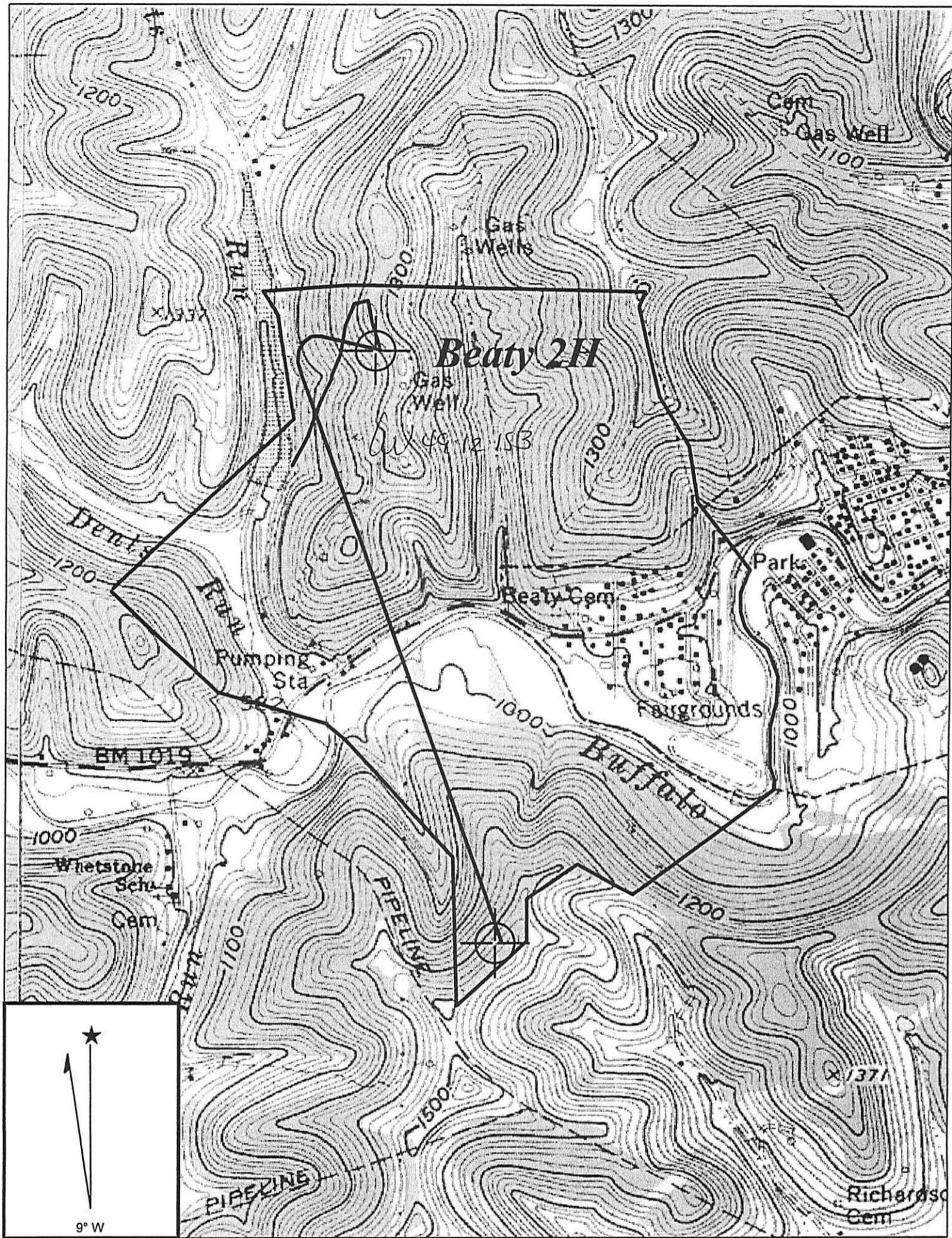
Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: BEATY 2H
Farm Name: MARGARET A. BEATY HEIRS
API Well Number: 47-4902251
Permit Type: Horizontal 6A Well
Date Issued: 04/30/2013

Promoting a healthy environment.



Copyright (C) 1997, Maptech, Inc.

49-2251

MANNINGTON QUADRANGLE

wrt
2-20-13

SCALE 1" = 1000'

TRANS ENERGY, INC.

WELL: H 2
BEATY HEIRS 449.903 ACRE LEASE

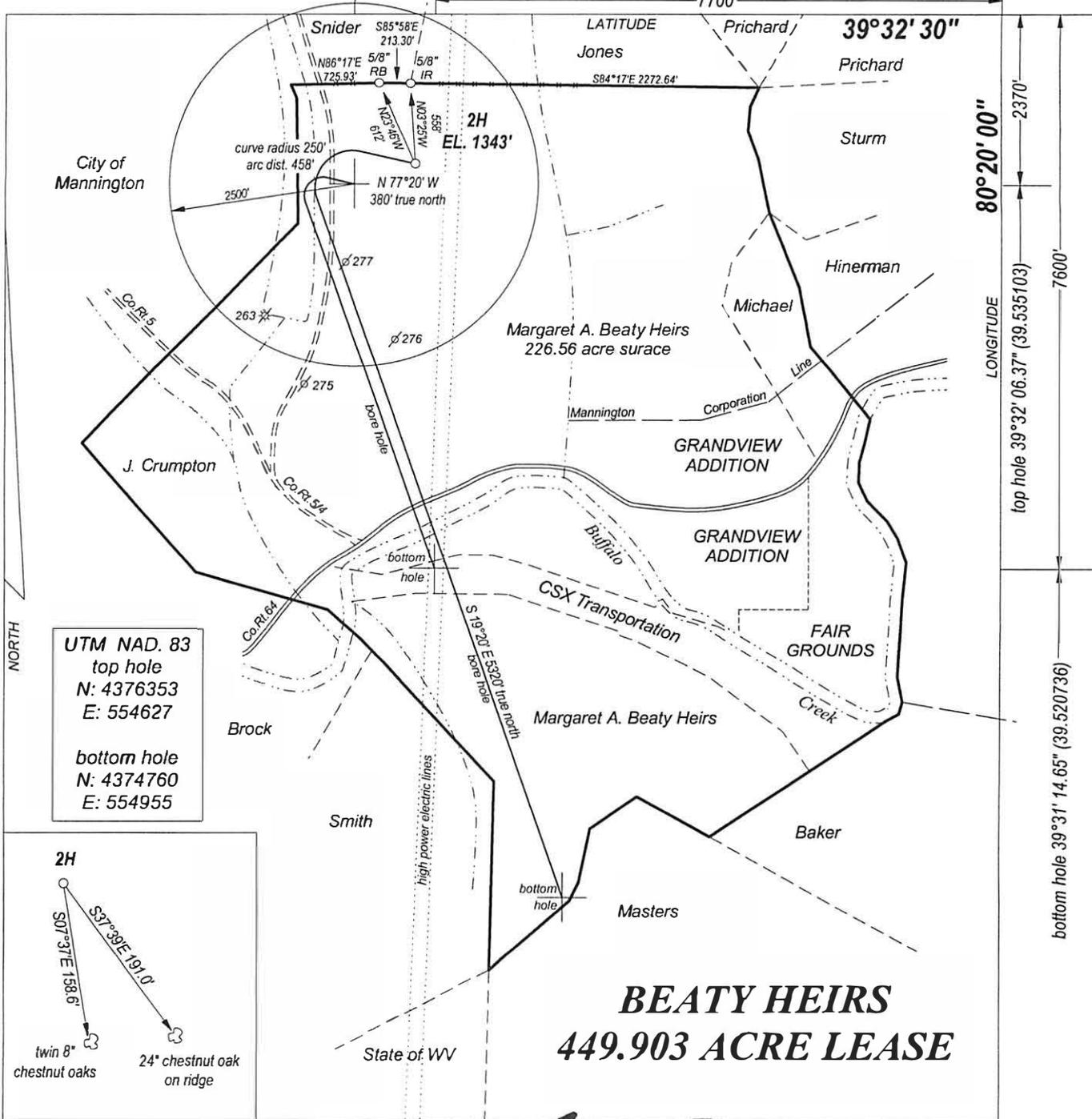
MANNINGTON DISTRICT MARION COUNTY WEST VIRGINIA

top hole 80°21' 51.57" (80.364325)

8720'

bottom hole 80°21' 38.30" (80.360639)

7700'



80°20'00"

2370'

LONGITUDE

top hole 39°32' 06.37" (39.535103)

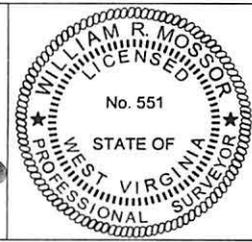
7600'

bottom hole 39°31' 14.65" (39.520736)

BEATY HEIRS 449.903 ACRE LEASE

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 : 200
 PROVEN SOURCE OF ELEVATION GPS OBSERVATION

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) _____
 PROFESSIONAL SURVEYOR: 551



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS

DATE MARCH 27TH, 2012
 OPERATORS WELL NO. BEATY 2H

API 47 - 049 - 2251H6A
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1343' WATER SHED BUFFALO CREEK
 DISTRICT MANNINGTON COUNTY MARION QUADRANGLE MANNINGTON

SURFACE OWNER MARGARET A. BEATY HEIRS ACREAGE 226.53
 OIL & GAS ROYALTY BEATY HEIRS LEASE AC. 449.903

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL
 FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION
 OTHER PHYSICAL CHANGE IN WELL
 PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION MARCELLUS SHALE ESTIMATED DEPTH 7200'

WELL OPERATOR TRANS ENERGY, INC. DESIGNATED AGENT LOREN BAGLEY
 ADDRESS P. O. BOX 393 ADDRESS P. O. BOX 393
ST. MARYS, WV 26170 ST. MARYS, WV 26170

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 30, 2013

WELL WORK PERMIT

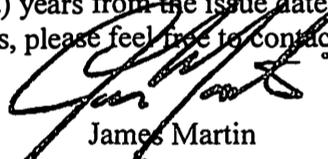
Horizontal 6A Well

This permit, API Well Number: 47-5101631, 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 completion of permitted well work, 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: VAN ASTON MSH 5H

Farm Name: ASHTON, VAN L.

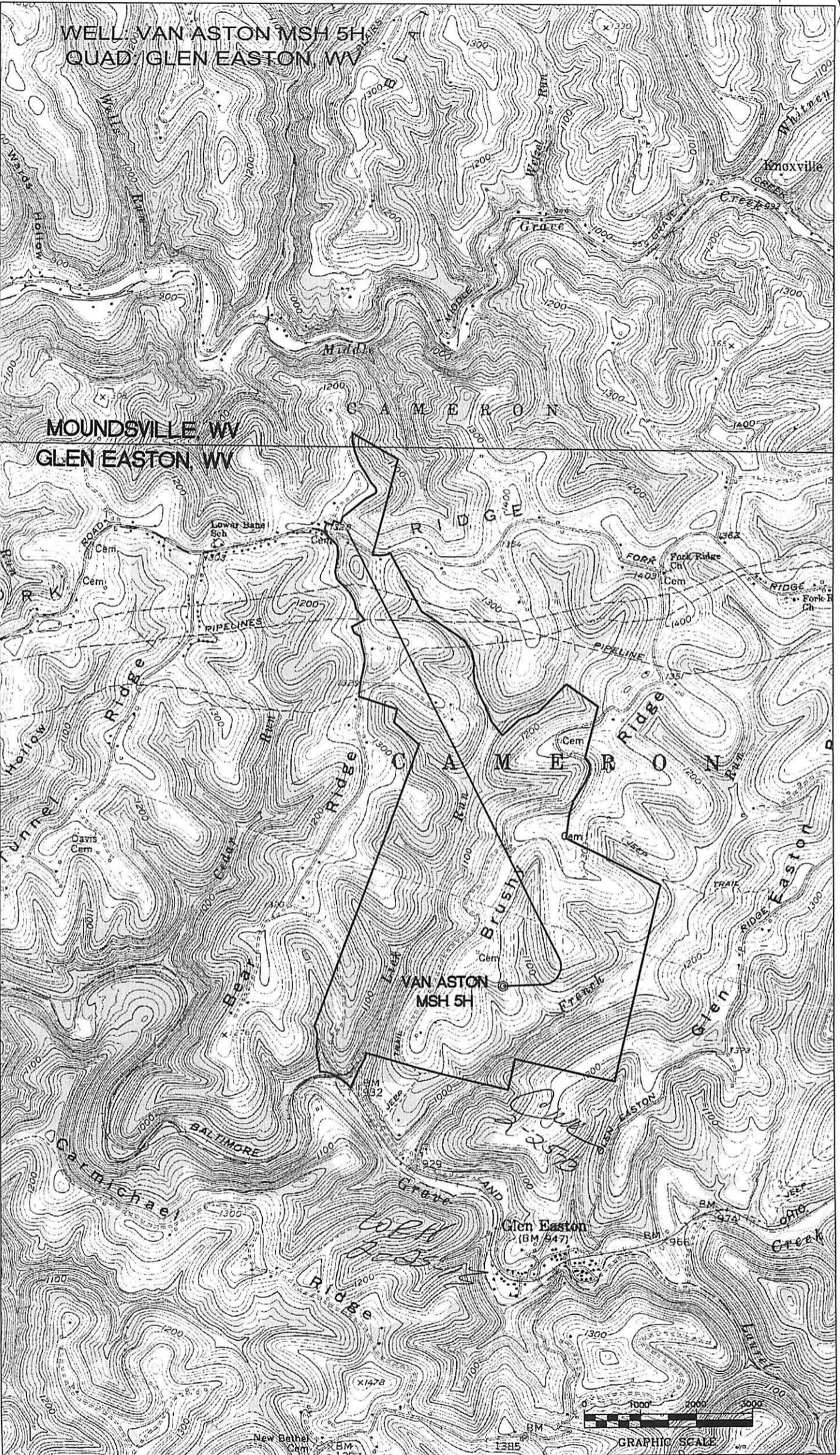
API Well Number: 47-5101631

Permit Type: Horizontal 6A Well

Date Issued: 04/30/2013

Promoting a healthy environment.

WELL: VAN ASTON MSH 5H
QUAD: GLEN EASTON, WV



MOUNDSVILLE, WV
GLEN EASTON, WV

VAN ASTON
MSH 5H





west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
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Earl Ray Tomblin, Governor
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April 30, 2013

WELL WORK PERMIT

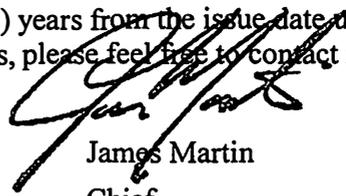
Horizontal 6A Well

This permit, API Well Number: 47-5101633, 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 completion of permitted well work, 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.

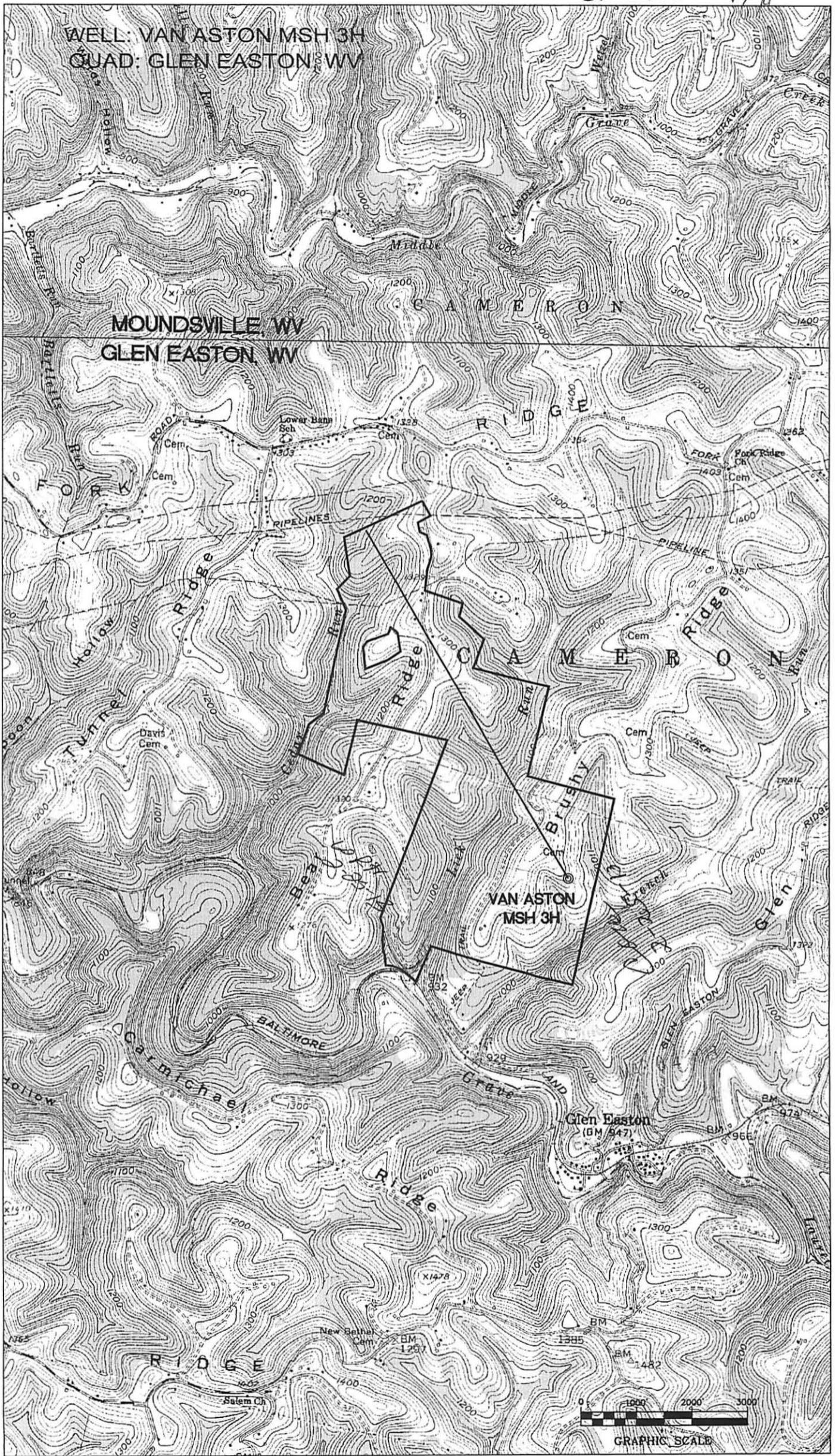


James Martin
Chief

Operator's Well No: VAN ASTON MSH 3H
Farm Name: ASTON, VAN L.
API Well Number: 47-5101633
Permit Type: Horizontal 6A Well
Date Issued: 04/30/2013

Promoting a healthy environment.

WELL: VAN ASTON MSH 3H
QUAD: GLEN EASTON WV





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 30, 2013

WELL WORK PERMIT

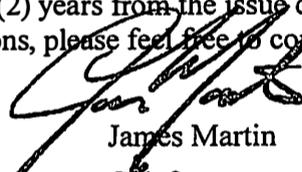
Horizontal 6A Well

This permit, API Well Number: 47-5101632, 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 completion of permitted well work, 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: VAN ASTON MSH 205H

Farm Name: ASTON, VAN L.

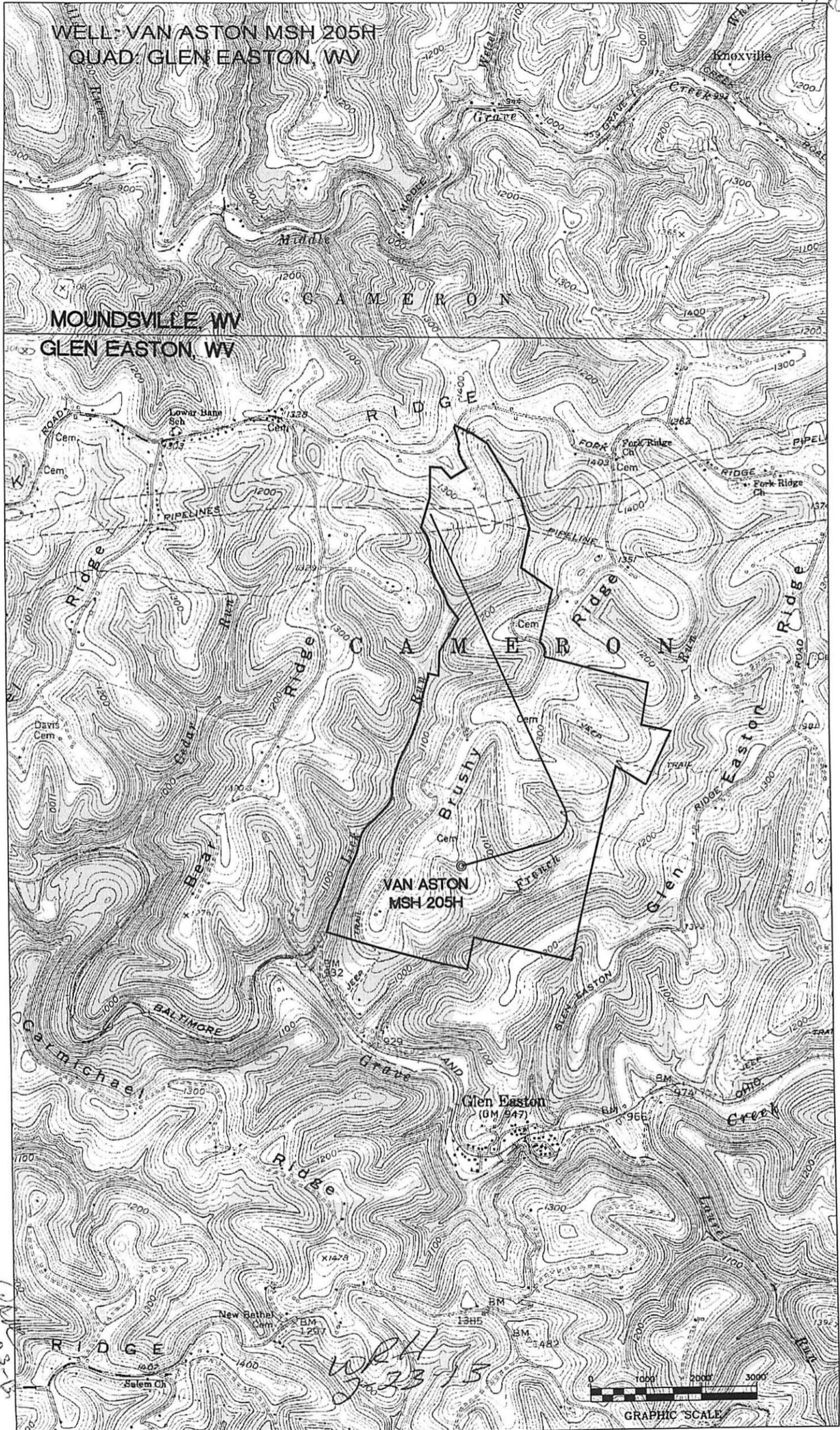
API Well Number: 47-5101632

Permit Type: Horizontal 6A Well

Date Issued: 04/30/2013

Promoting a healthy environment.

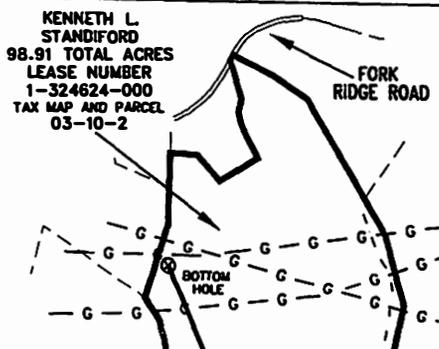
WELL: VAN ASTON MSH 205H
QUAD: GLEN EASTON, WV



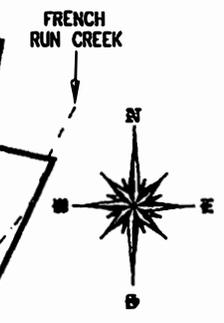
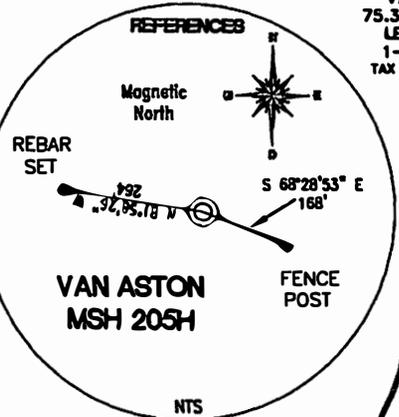
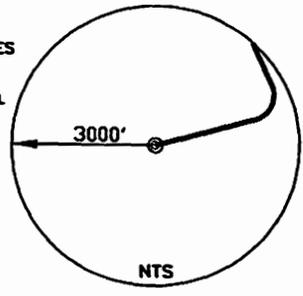
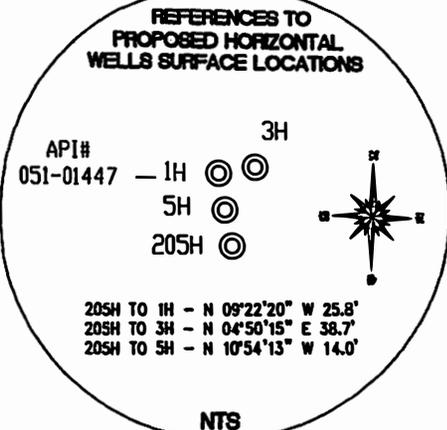
Handwritten notes:
2-23-15
WRH
2-23-15



TOP HOLE (NAD 83) N) 493072.2 E) 1645513.9 LAT.) 39°50'53.0" LONG.) 80°39'01.4" DEC. LAT.) 39.848052 DEC. LONG.) 80.650398	KOP (NAD 83) N) 493644.6 E) 1647616.7 LAT.) 39°50'58.9" LONG.) 80°38'34.6" DEC. LAT.) 39.849697 DEC. LONG.) 80.642932
TOP HOLE (NAD 87) N) 493035.3 E) 1676950.1 LAT.) 39°50'52.7" LONG.) 80°39'02.1" DEC. LAT.) 39.847975 DEC. LONG.) 80.650591	KOP (NAD 87) N) 493607.6 E) 1679052.9 LAT.) 39°50'58.6" LONG.) 80°38'35.3" DEC. LAT.) 39.849620 DEC. LONG.) 80.643129



TP (NAD 83) N) 494103.1 E) 1647417.3 LAT.) 39°51'03.4" LONG.) 80°38'37.2" DEC. LAT.) 39.850949 DEC. LONG.) 80.643664	BOTTOM HOLE (NAD 83) N) 499644.8 E) 1645006.4 LAT.) 39°51'57.9" LONG.) 80°39'09.0" DEC. LAT.) 39.868077 DEC. LONG.) 80.652503
TP (NAD 87) N) 494066.1 E) 1678853.4 LAT.) 39°51'03.1" LONG.) 80°38'37.9" DEC. LAT.) 39.850871 DEC. LONG.) 80.643860	BOTTOM HOLE (NAD 87) N) 499607.9 E) 1676442.5 LAT.) 39°51'57.6" LONG.) 80°39'09.7" DEC. LAT.) 39.865999 DEC. LONG.) 80.652700



TH (NAD 83) N) 4410951.2 E) 529908.2
BOTTOM HOLE (NAD 83) N) 4412951.0 E) 529720.1
REFERENCE LINES RL #1 N 61°33'35" E 2,165'

VAN L. ASTON
75.32 TOTAL ACRES
LEASE NUMBER
1-324659-000
TAX MAP AND PARCEL
03-12-13

VAN L. AND VICKI L. ASTON
80 TOTAL ACRES
LEASE NUMBER
1-324659-000
TAX MAP AND PARCEL
03-10-19

VAN L. ASTON
159.58 TOTAL ACRES
LEASE NUMBER
1-324659-000
TAX MAP AND PARCEL
03-12-12

DALE E. HALL
10 TOTAL ACRES
TAX MAP AND PARCEL
03-13-03

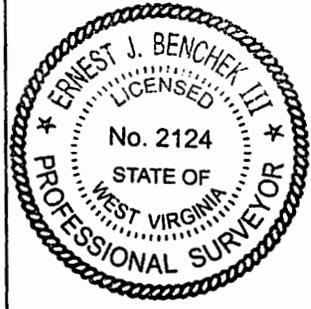
DAVID R. HALL
116.62 TOTAL ACRES
LEASE NUMBER
WV0000089-000
WV0000264-000
TAX MAP AND PARCEL
03-12-14

DALE E. HALL
60 TOTAL ACRES
LEASE NUMBER
1-303142-001
TAX MAP AND PARCEL
03-13-04

REFERENCE NOTES
 Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records Marshall County, West Virginia OCTOBER 2012
 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS
 Drafted by: EAM

FILE #: CHE 032
 DRAWING #: 2125
 SCALE: 1" = 1400'
 MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SOURCE SUBMETER MAPPING OF ELEVATION: GRADE GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 Signed:
 L.L.S. #2124 : Ernest J. Benchek III



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

DATE: JANUARY 29, 2013
 OPERATOR'S WELL #: VAN ASTON MSH 205H
 API WELL #: 47 51 1632 H6A
 STATE COUNTY PERMIT

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,152'
 COUNTY/DISTRICT: MARSHALL / CAMERON QUADRANGLE: GLEN EASTON, WV.
 SURFACE OWNER: VAN L. ASTON ACREAGE: 75.32 +/-
 OIL & GAS ROYALTY OWNER: VAN L. ASTON ACREAGE: 487.88 +/-
 LEASE NUMBERS: _____

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,595' TMD: 13,317'
 WELL OPERATOR: CHESAPEAKE APPALACHIA, LLC. DESIGNATED AGENT: ERIC GILLESPIE
 ADDRESS: PO BOX 18496 ADDRESS: PO BOX 6070
 CITY: OKLAHOMA CITY STATE: OK ZIP CODE: 73154-0496 CITY: CHARLESTON STATE: WV ZIP CODE: 25301



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 30, 2013

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-6900162, 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 completion of permitted well work, 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: CHARLES FRYE OHI 6H
Farm Name: FRYE, CHARLES AND DOROTHY
API Well Number: 47-6900162
Permit Type: Horizontal 6A Well
Date Issued: 04/30/2013

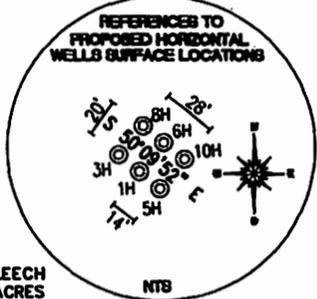
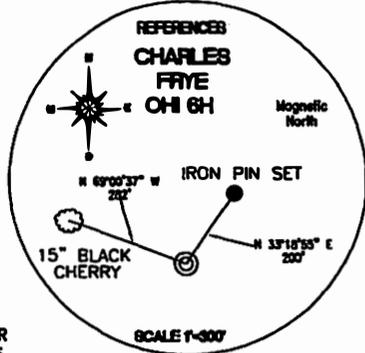
Promoting a healthy environment.

WELL CHARLES FRYE OH16H
QUAD VALLEY GROVE WV

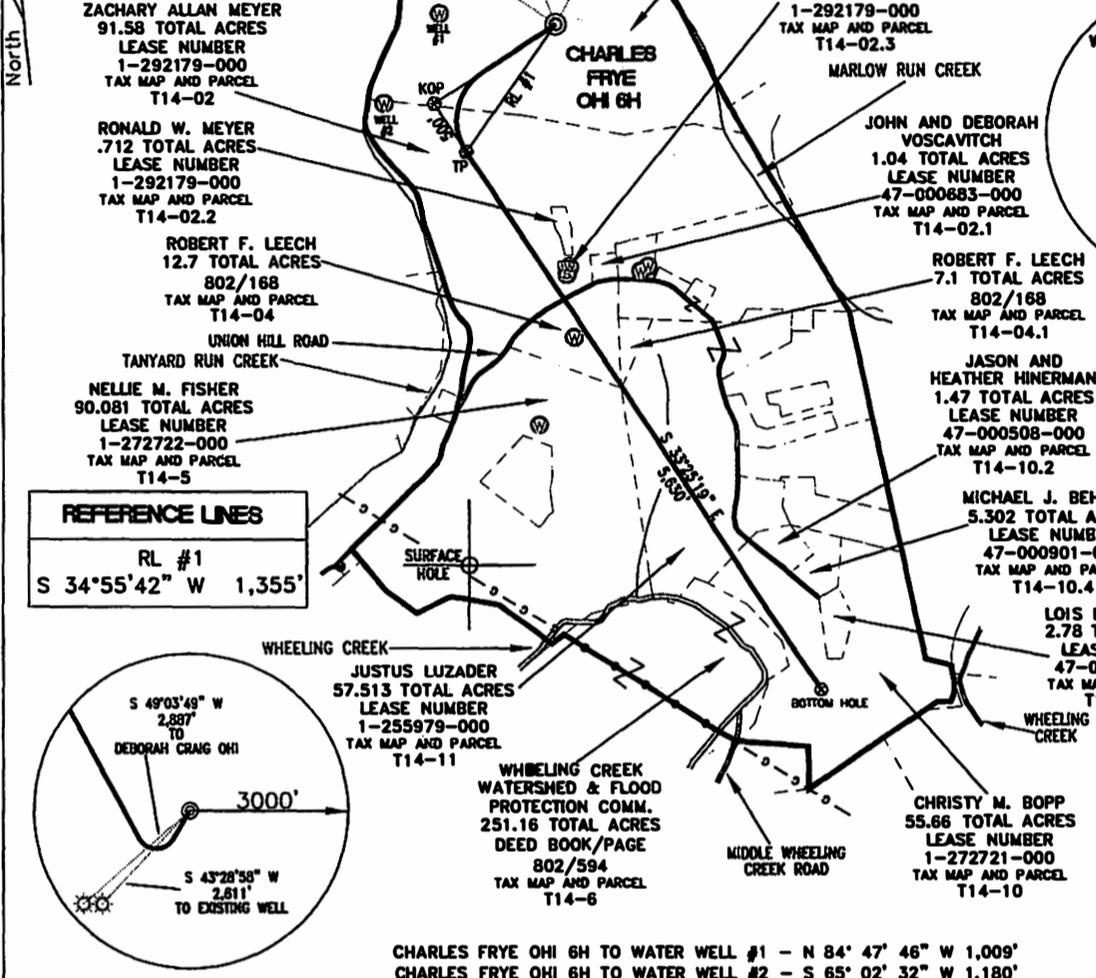


2-150 X
2-1217

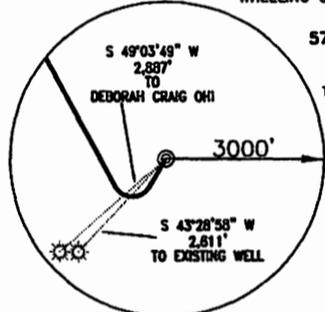
TOP HOLE (NAD 83) N) 567520.3 E) 1668997.7 LAT.) 40°03'11.3" LONG.) 80°34'37.4" DEC. LAT.) 40.053145 DEC. LONG.) 80.577062	KOP (NAD 83) N) 566826.4 E) 1665946.3 LAT.) 40°03'04.3" LONG.) 80°34'50.8" DEC. LAT.) 40.051206 DEC. LONG.) 80.580788	TP (NAD 83) N) 566409.1 E) 1666221.7 LAT.) 40°03'00.3" LONG.) 80°34'47.2" DEC. LAT.) 40.050069 DEC. LONG.) 80.579786	BOTTOM HOLE (NAD 83) N) 561710.4 E) 1669322.5 LAT.) 40°02'14.2" LONG.) 80°34'06.6" DEC. LAT.) 40.037273 DEC. LONG.) 80.568511
TOP HOLE (NAD 87) N) 567483.3 E) 1698432.2 LAT.) 40°03'11.1" LONG.) 80°34'38.2" DEC. LAT.) 40.053071 DEC. LONG.) 80.577266	KOP (NAD 87) N) 566789.5 E) 1697380.9 LAT.) 40°03'04.1" LONG.) 80°34'51.6" DEC. LAT.) 40.051132 DEC. LONG.) 80.580992	TP (NAD 87) N) 566372.2 E) 1697656.3 LAT.) 40°02'60.0" LONG.) 80°34'48.0" DEC. LAT.) 40.049996 DEC. LONG.) 80.579990	BOTTOM HOLE (NAD 87) N) 561673.5 E) 1700757.0 LAT.) 40°02'13.9" LONG.) 80°34'07.4" DEC. LAT.) 40.037199 DEC. LONG.) 80.568716



TH (UTM-NAD 83) N) 4433741.6 E) 536073.9
BOTTOM HOLE (UTM-NAD 83) N) 4431983.4 E) 536811.8



REFERENCE LINES RL #1 S 34°55'42" W 1,355'



REFERENCE NOTES
 Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records OH&O County, West Virginia JULY 2012
 State Plane Coordinates & NAD 27 Lat/Long by differential submeter mapping grade GPS
 Drafted by: EAM

CHARLES FRYE OHI 6H TO WATER WELL #1 - N 84° 47' 46" W 1,009'
 CHARLES FRYE OHI 6H TO WATER WELL #2 - S 65° 02' 32" W 1,180'

FILE #: CHE 046
 DRAWING #: 2090
 SCALE: 1" = 1600'
 MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SOURCE SUBMETER MAPPING OF ELEVATION: GRADE GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 Signed:
 L.L.S. #2124 : Ernest J. Benchek III



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WYDEP
 OFFICE OF OIL & GAS
 601 5TH STREET
 CHARLESTON, WV 25304

DATE: AUGUST 6, 2012
 OPERATOR'S WELL #: CHARLES FRYE OHI 6H
 API WELL #: 47 69 00162H6A
 STATE COUNTY PERMIT

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,260'
 COUNTY/DISTRICT: OHIO / TRIADELPHIA QUADRANGLE: VALLEY GROVE, WV.
 SURFACE OWNER: CHARLES AND DOROTHY FRYE ACREAGE: 105.00 +/-
 OIL & GAS ROYALTY OWNER: CHARLES AND DOROTHY FRYE ACREAGE: 419.634 +/-
 LEASE NUMBERS: _____

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): TVD: 6,500' TMD: 12,599'
 TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: _____
 WELL OPERATOR: CHESAPEAKE APPALACHIA, LLC. DESIGNATED AGENT: ERIC GILLESPIE
 ADDRESS: PO BOX 18496 ADDRESS: PO BOX 6070
 CITY: OKLAHOMA CITY STATE: OK ZIP CODE: 73154-0496 CITY: CHARLESTON STATE: WV ZIP CODE: 25301



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 30, 2013

WELL WORK PERMIT

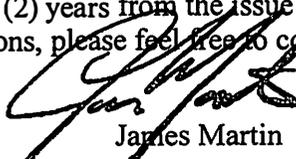
Horizontal 6A Well

This permit, API Well Number: 47-6900163, 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 completion of permitted well work, 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.

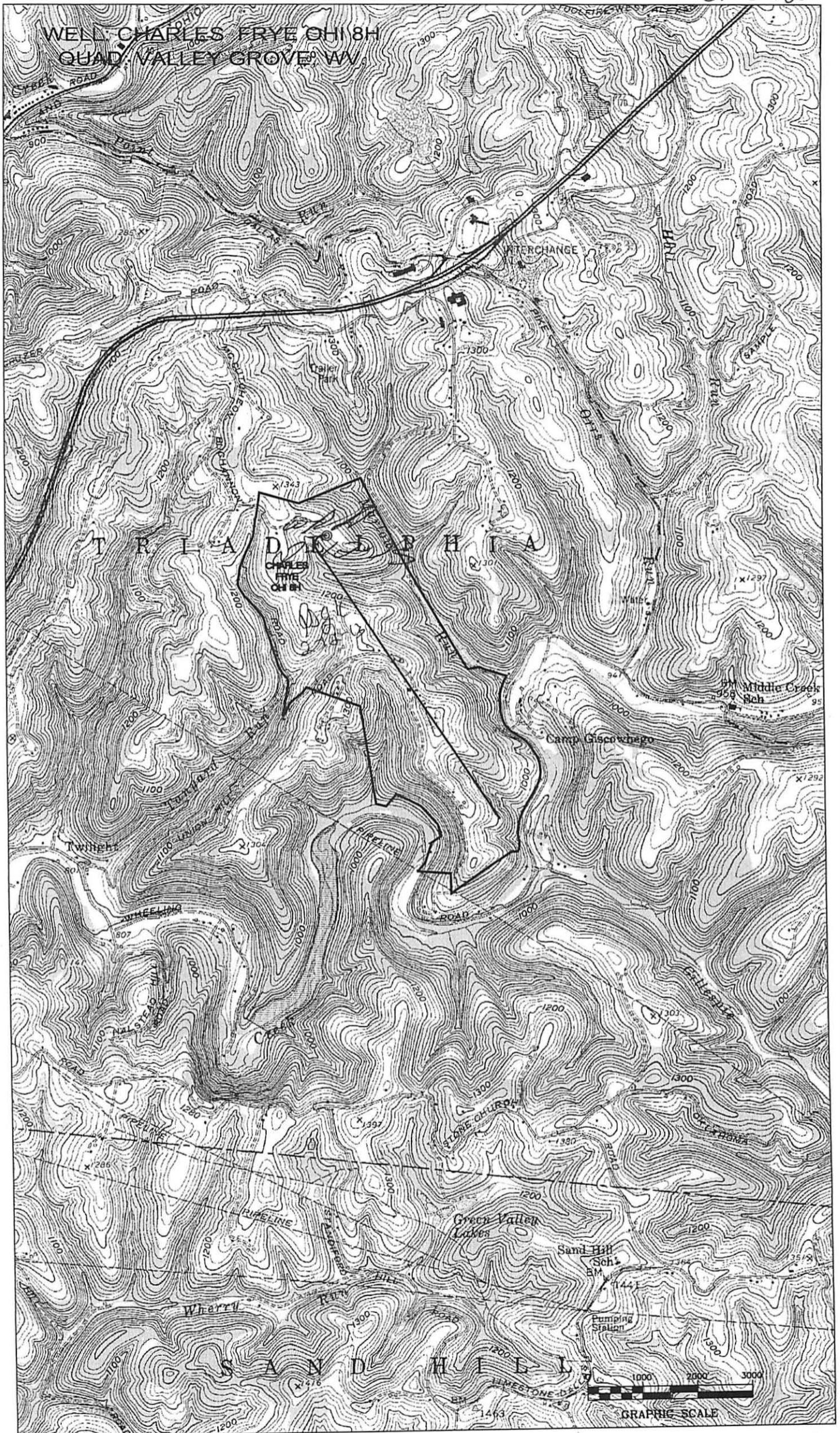


James Martin
Chief

Operator's Well No: CHARLES FRYE OHI 8H
Farm Name: FRYE, CHARLES AND DOROTHY
API Well Number: 47-6900163
Permit Type: Horizontal 6A Well
Date Issued: 04/30/2013

Promoting a healthy environment.

WELL CHARLES FRYE OH 8H
QUAD VALLEY GROVE WV





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 30, 2013

WELL WORK PERMIT
Horizontal 6A Well

This permit, API Well Number: 47-5101635, issued to NOBLE ENERGY, 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.

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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.

A handwritten signature in black ink, appearing to read 'James Martin', is written over the typed name and title.

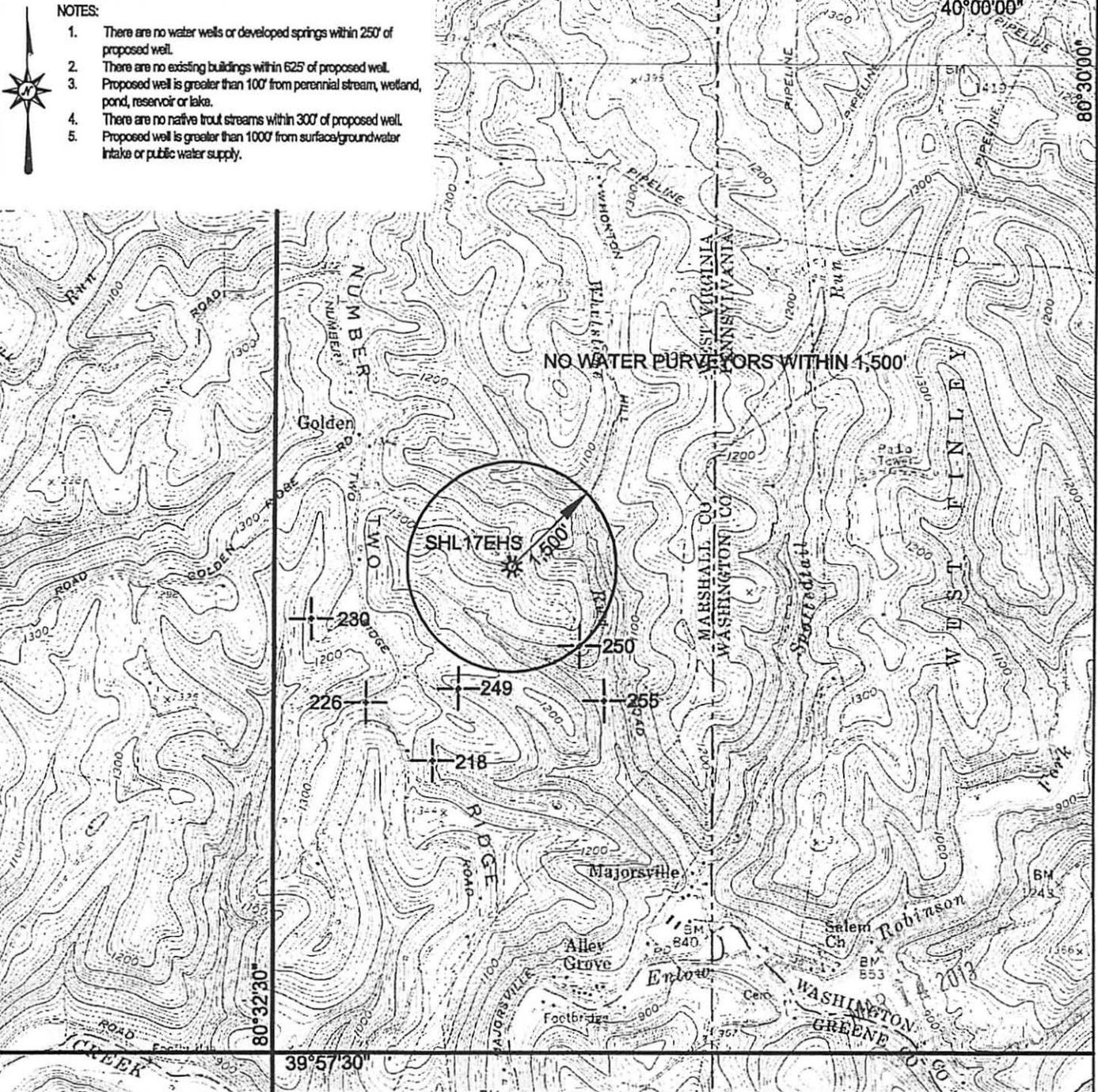
James Martin
Chief

Operator's Well No: SHL17AHS
Farm Name: JOHN A. & JUDY C. GRAY
API Well Number: 47-5101635
Permit Type: Horizontal 6A Well
Date Issued: 04/30/2013

Promoting a healthy environment.

NOTES:

1. There are no water wells or developed springs within 250' of proposed well.
2. There are no existing buildings within 625' of proposed well.
3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
4. There are no native trout streams within 300' of proposed well.
5. Proposed well is greater than 1000' from surface/groundwater intake or public water supply.



Blue Mountain Engineering
 11023 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

PREPARED FOR:

NOBLE ENERGY INC.
 333 TECHNOLOGY DRIVE
 SUITE 110
 CANONSBURG, PA 15317

SHL17EHS
 LOCATION MAP
 MARSHALL COUNTY
 SAND HILL DISTRICT
 WEST VIRGINIA

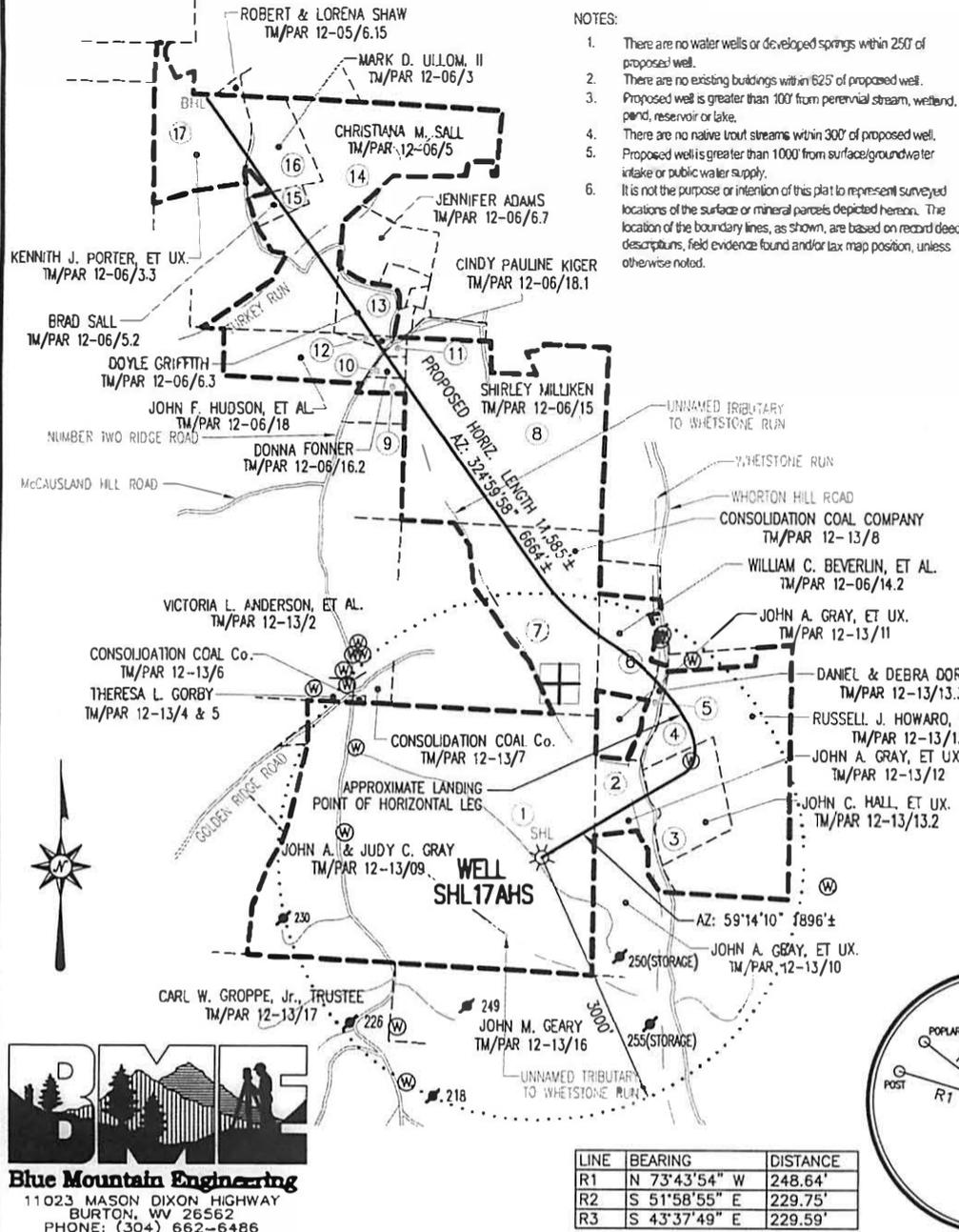
TOPO QUAD: MAJORSVILLE, WV-PA

SCALE: 1" = 2000'

DATE: OCTOBER 2, 2012

Cwe
 3-7-13

Well is located on topo map 8,245' feet south of Latitude: 40° 00' 00"



- NOTES:
1. There are no water wells or developed springs within 250' of proposed well.
 2. There are no existing buildings within 625' of proposed well.
 3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 4. There are no native trout streams within 300' of proposed well.
 5. Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
 6. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted herein. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

LEGEND

- ☒ - TOPO MAP POINT
- ☼ - WELL
- - ALL ARE POINTS UNLESS OTHERWISE NOTED.
- ⊙ - WATER SOURCE
- ⊙ - LEASE NUMBER BASED ON ATTACHED WW-6A1
- - MINERAL TRACT BOUNDARY
- - PARCEL LINES
- - WELL REFERENCE
- - PROPOSED HORIZONTAL WELL
- - ROAD
- - STREAM CENTER LINE

WELLS WITHIN 3000'

- - EXISTING WELLS
- ⊙ - PLUGGED WELLS

SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83
N:4425360.58
E:540200.83

NAD27, WV NORTH
N:539754.19
E:1711514.35

APPROX. LANDING POINT

UTM 17-NAD83
N:4425871.37
E:540678.35

NAD27, WV NORTH
N:541404.12
E:1713109.28

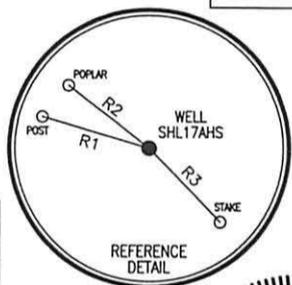
BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83
N:4427980.336
E:538978.820

NAD27, WV NORTH
N:548418.16
E:1707648.16

Blue Mountain Engineering
11023 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: (304) 662-6486

LINE	BEARING	DISTANCE
R1	N 73°43'54" W	248.64'
R2	S 51°58'55" E	229.75'
R3	S 43°37'49" E	229.59'



FILE #: SHL17AHS
DRAWING#: SHL17AHS
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/2500
PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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.: P.S. No. 2000

PLACE SEAL HERE

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



DATE: FEBRUARY 22, 2013
OPERATOR'S WELL #: SHL17AHS
API WELL #: 47 51 **1035 H6A**
STATE COUNTY PERMIT

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

WATERSHED: WHORTON HILL RUN ELEVATION: 1290.53'
COUNTY/DISTRICT: MARSHALL / SAND HILL QUADRANGLE: MAJORSVILLE, WV-PA 7.5'
SURFACE OWNER: JOHN A. & JUDY C. GRAY ACREAGE: 241.56±
OIL & GAS ROYALTY OWNER: SEE ATTACHED WW-6A1 ACREAGE: 699.354±

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,560± TMD: 16,565±
WELL OPERATOR NOBLE ENERGY INC. DESIGNATED AGENT STEVEN M. GREEN
Address 333 TECHNOLOGY DRIVE Address 500 VIRGINIA STREET EAST, UNITED CENTER SUITE 1001
City CANONSBURG State PA Zip Code 15317 City CHARLESTON State WV Zip Code 25301

Well is located on topo map 8,239' feet west of Longitude: 80° 30' 00"



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 30, 2013

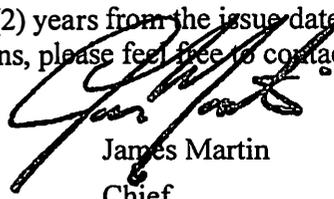
WELL WORK PERMIT
Horizontal 6A Well

This permit, API Well Number: 47-5101634, issued to NOBLE ENERGY, 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.

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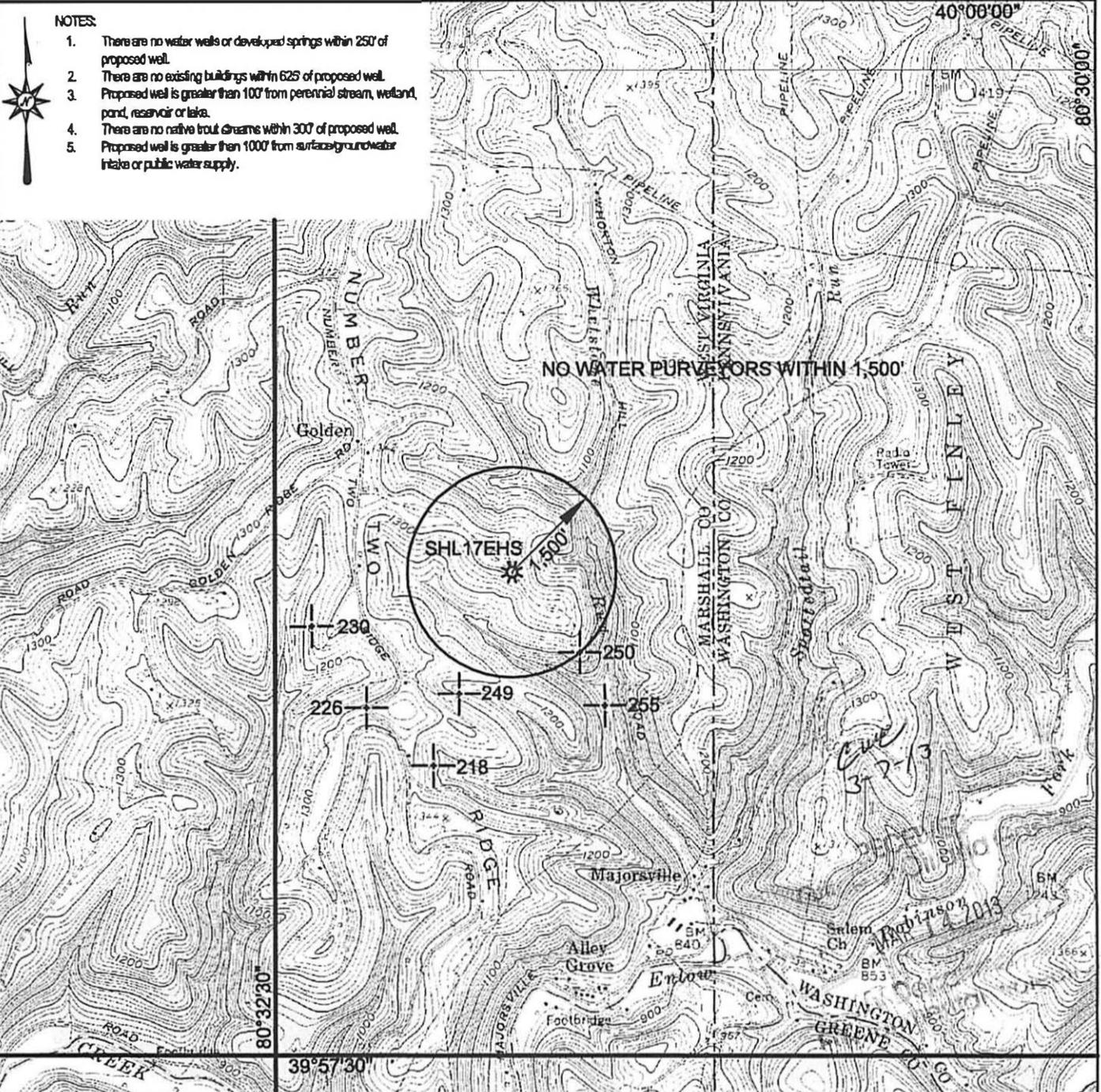
James Martin
Chief

Operator's Well No: SHL17FHS
Farm Name: JOHN A. & JUDY C. GRAY
API Well Number: 47-5101634
Permit Type: Horizontal 6A Well
Date Issued: 04/30/2013

Promoting a healthy environment.

NOTES:

1. There are no water wells or developed springs within 250' of proposed well.
2. There are no existing buildings within 625' of proposed well.
3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
4. There are no native trout streams within 300' of proposed well.
5. Proposed well is greater than 1000' from surface/groundwater intake or public water supply.



Blue Mountain Engineering
 11023 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

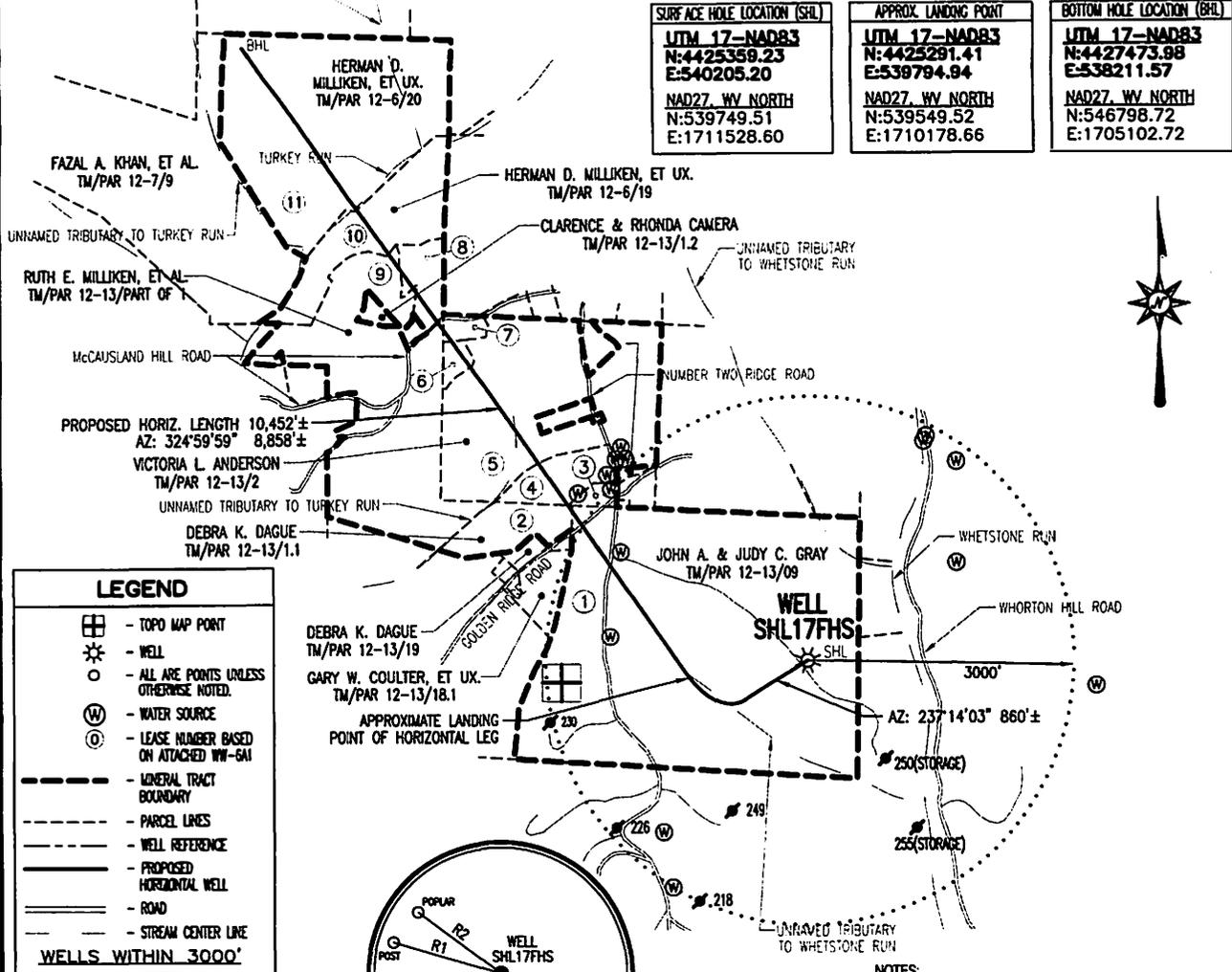
PREPARED FOR:
NOBLE ENERGY INC.
 333 TECHNOLOGY DRIVE
 SUITE 110
 CANONSBURG, PA 15317

SHL17EHS
 LOCATION MAP
 MARSHALL COUNTY
 SAND HILL DISTRICT
 WEST VIRGINIA

TOPO QUAD: MAJORSVILLE, WV-PA
 SCALE: 1" = 2000'
 DATE: OCTOBER 2, 2012

Well is located on topo map 8,248' feet south of Latitude: 40° 00' 00"

Well is located on topo map 8,230' feet west of Longitude: 80° 30' 00"



SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83
N:4425359.23
E:540205.20

NAD27, WV NORTH
N:539749.51
E:1711528.60

APPROX. LANDING POINT

UTM 17-NAD83
N:4425291.41
E:539794.94

NAD27, WV NORTH
N:539549.52
E:1710178.66

BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83
N:4427473.88
E:538211.57

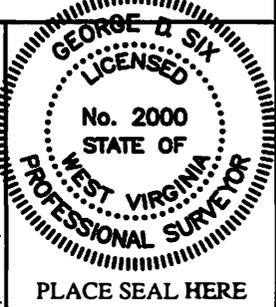
NAD27, WV NORTH
N:546798.72
E:1705102.72



FILE #: SHL17FHS
 DRAWING #: SHL17FHS
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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: *George D. Six*
 R.P.E.: _____ L.L.S.: P.S. No. 2000



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



DATE: FEBRUARY 22, 2013
 OPERATOR'S WELL #: SHL17FHS
 API WELL #: 47 51 1634 H6A
 STATE COUNTY PERMIT

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

WATERSHED: WHORTON HILL RUN ELEVATION: 1287.67'
 COUNTY/DISTRICT: MARSHALL / SAND HILL QUADRANGLE: MAJORSVILLE, WV-PA 7.5'
 SURFACE OWNER: JOHN A. & JUDY C. GRAY ACREAGE: 241.56±
 OIL & GAS ROYALTY OWNER: SEE ATTACHED WW-6A1 ACREAGE: 608.303±

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,560± TMD: 16,159±
 WELL OPERATOR NOBLE ENERGY INC. DESIGNATED AGENT STEVEN M. GREEN
 Address 333 TECHNOLOGY DRIVE Address 500 VIRGINIA STREET EAST, UNITED CENTER SUITE 1001
 City CANONSBURG State PA Zip Code 15317 City CHARLESTON State WV Zip Code 25301



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

May 02, 2013

WELL WORK PERMIT
Horizontal 6A Well

This permit, API Well Number: 47-1706238, 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 completion of permitted well work, 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.

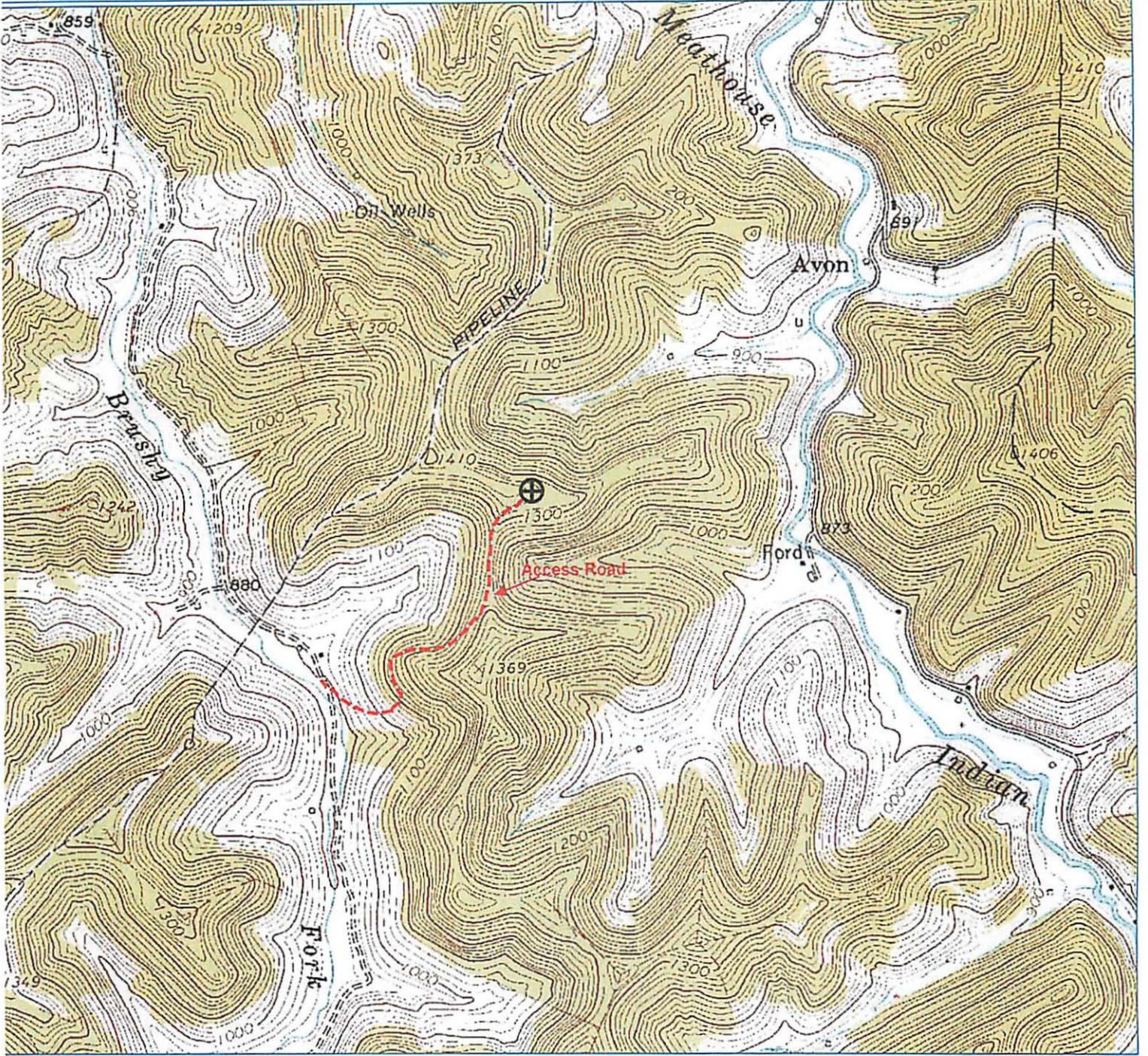
In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

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: CROSS UNIT 1H
Farm Name: STEWART, RANDALL
API Well Number: 47-1706238
Permit Type: Horizontal 6A Well
Date Issued: 05/02/2013

Promoting a healthy environment.



UTRA 3152013 2:40:12 PM

17-06238 H6A
ANTERO RESOURCES

CROSS UNIT 1H

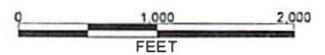
PAD NAME: STEWART

Antero Resources

Appalachian Basin

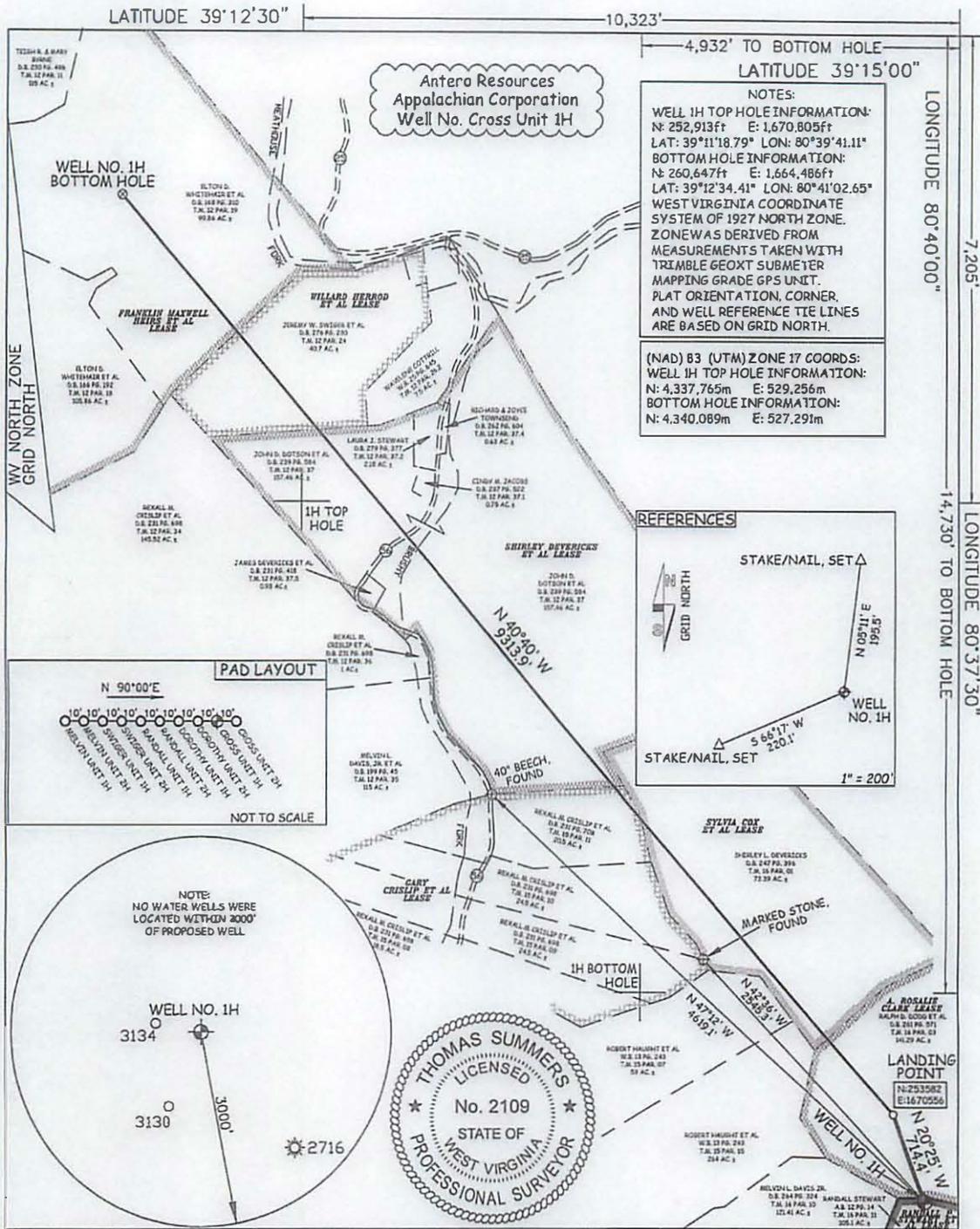
Cross Unit 1H

Doddridge County



REMARKS
 Quadrangle: New Milton
 Watershed: Toms Fork Meathouse Fork
 District: New Milton

March 18, 2013



JOB # <u>12-118WA</u> DRAWING # <u>CROSS1HR2</u> SCALE <u>1" = 1000'</u> MINIMUM DEGREE OF ACCURACY <u>SUBMETER</u> PROVEN SOURCE OF ELEV. <u>SUBMETER MAPPING GRADE GPS</u>		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 PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.		LEGEND - - - - - Surface Owner Boundary Lines +/- - - - - - Interior Surface Tracts +/- - x - x - Existing Fence Found monument, as noted	
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS WELL TYPE: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> (IF "GAS") PRODUCTION <input checked="" type="checkbox"/> STORAGE <input type="checkbox"/> DEEP <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> LOCATION: ELEVATION <u>1.33Z</u> WATERSHED <u>INDIAN FORK</u> QUADRANGLE <u>NEW MILTON 7.5</u> DISTRICT <u>NEW MILTON</u> COUNTY <u>DODDRIDGE</u>				STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WILLLOW LAND SURVEYING PLLC 266 HUSHERS RUN RD PENNSBORO WEST VIRGINIA 26415	
SURFACE OWNER <u>RANDALL STEWART</u> ACREAGE <u>105.1 ACRES +/-</u> OIL & GAS ROYALTY OWNER <u>RANDALL P. STEWART, ET AL.; A. ROSALIE CLARK; SYLVIA COX ET AL.; GARY CRISP ET AL.; SHIRLEY DEVERICKS ET AL.; WILLARD HERRROD ET AL.; FRANKLIN MAXWELL HEIRS ET AL.</u> LEASE ACREAGE <u>195 ACRES +/- 141.46 ACRES +/- 73 ACRES +/- 88 ACRES +/- 157 ACRES +/- 43 ACRES +/- 580 ACRES +/-</u>				THOMAS SUMMERS P.S. 2109 DATE <u>03/14/13</u> OPERATOR'S WELL # <u>CROSS UNIT #1H</u> API WELL # <u>47 - 017</u> <u>06238</u> HGA STATE COUNTY PERMIT	
PROPOSED WORK: DRILL <input checked="" type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input checked="" type="checkbox"/> OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ PLUG & ABANDON CLEAN OUT & REPLUG TARGET FORMATION <u>MARCELLUS</u> ESTIMATED DEPTH <u>7.400' TVD 17.500' MD</u>		WELL OPERATOR <u>ANTERO RESOURCES APPALACHIAN CORP.</u> DESIGNATED AGENT <u>CT CORPORATION SYSTEM</u> ADDRESS <u>1625 17TH STREET</u> ADDRESS <u>5400 D BIG TYLER ROAD</u> DENVER, CO 80202 CHARLESTON, WV 25313		COUNTY NAME <u>DODDRIDGE</u> 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 29, 2013

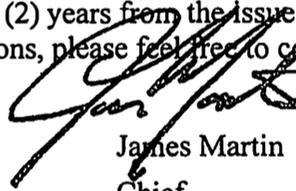
**WELL WORK PERMIT
Vertical Well**

This permit, API Well Number: 47-8704735, issued to HILDRETH, ROY G., JR. & SON, 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 completion of permitted well work, 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.

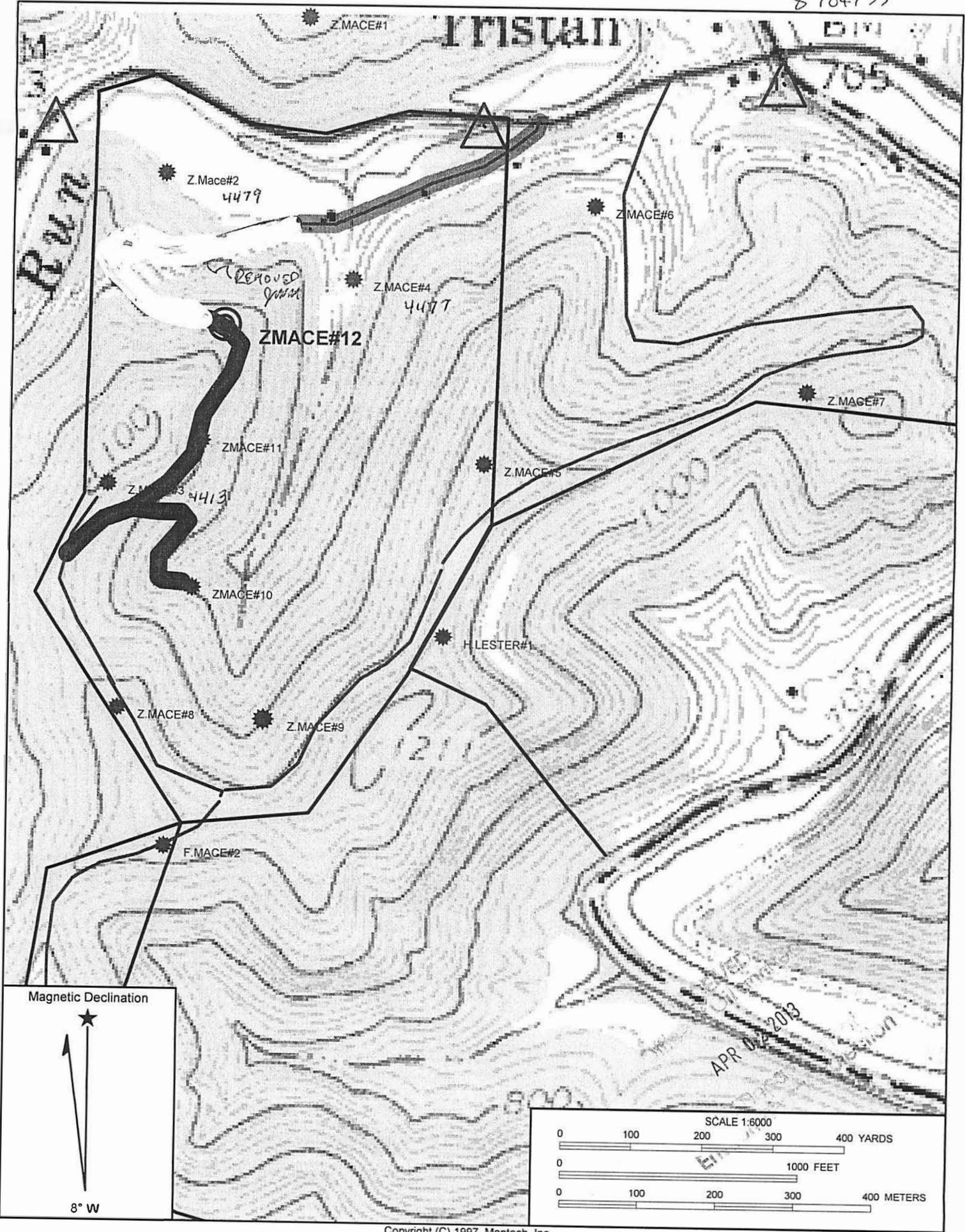
Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: ZANNIE MACE #12
Farm Name: MUNDEN, CONNIE
API Well Number: 47-8704735
Permit Type: Vertical Well
Date Issued: 04/29/2013

Promoting a healthy environment.



Magnetic Declination

8° W

SCALE 1:6000

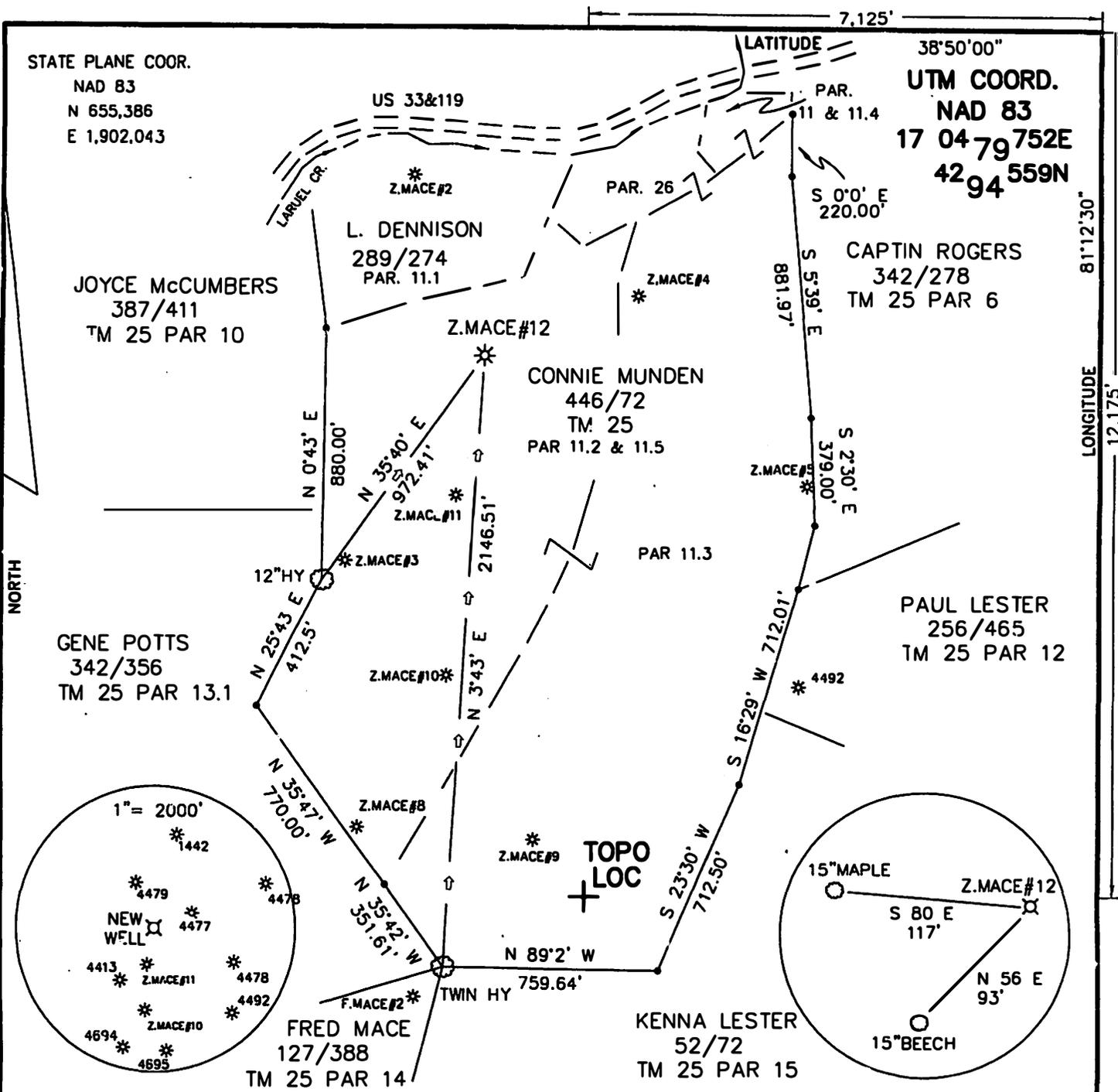
0 100 200 300 400 YARDS

0 1000 FEET

0 100 200 300 400 METERS

STATE PLANE COOR.
 NAD 83
 N 655,386
 E 1,902,043

38°50'00"
 UTM COORD.
 NAD 83
 17 04 79 752E
 42 94 559N



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

FILE NO. _____
 DRAWING NO. 13-3
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION 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) *[Signature]*
 R.P.E. _____ L.L.S. 851



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

DATE 3/1/20
 OPERATOR'S WELL NO. Z.MACE#12
 API WELL NO. 47-087-04735
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 946 WATER SHED LAUREL RUN OF HENRY FORK
 DISTRICT SPENCER COUNTY ROANE
 QUADRANGLE ARNOLDSBURG

SURFACE OWNER CONNIE MUNDEN ACREAGE 43
 OIL & GAS ROYALTY OWNER ROY G. HILDRETH JR. & OTHERS LEASE ACREAGE 345
 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 BIG INJUN ESTIMATED DEPTH 2,200
 WELL OPERATOR ROY G. HILDRETH & SON, INC DESIGNATED AGENT ROY G. HILDRETH JR.
 ADDRESS PO BOX 1007 ADDRESS PO BOX 1007
SPENCER, WV 25276 SPENCER, WV 25276



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 29, 2013

WELL WORK PERMIT
Vertical Well

This permit, API Well Number: 47-8704733, issued to HILDRETH, ROY G., JR. & SON, 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 completion of permitted well work, 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.

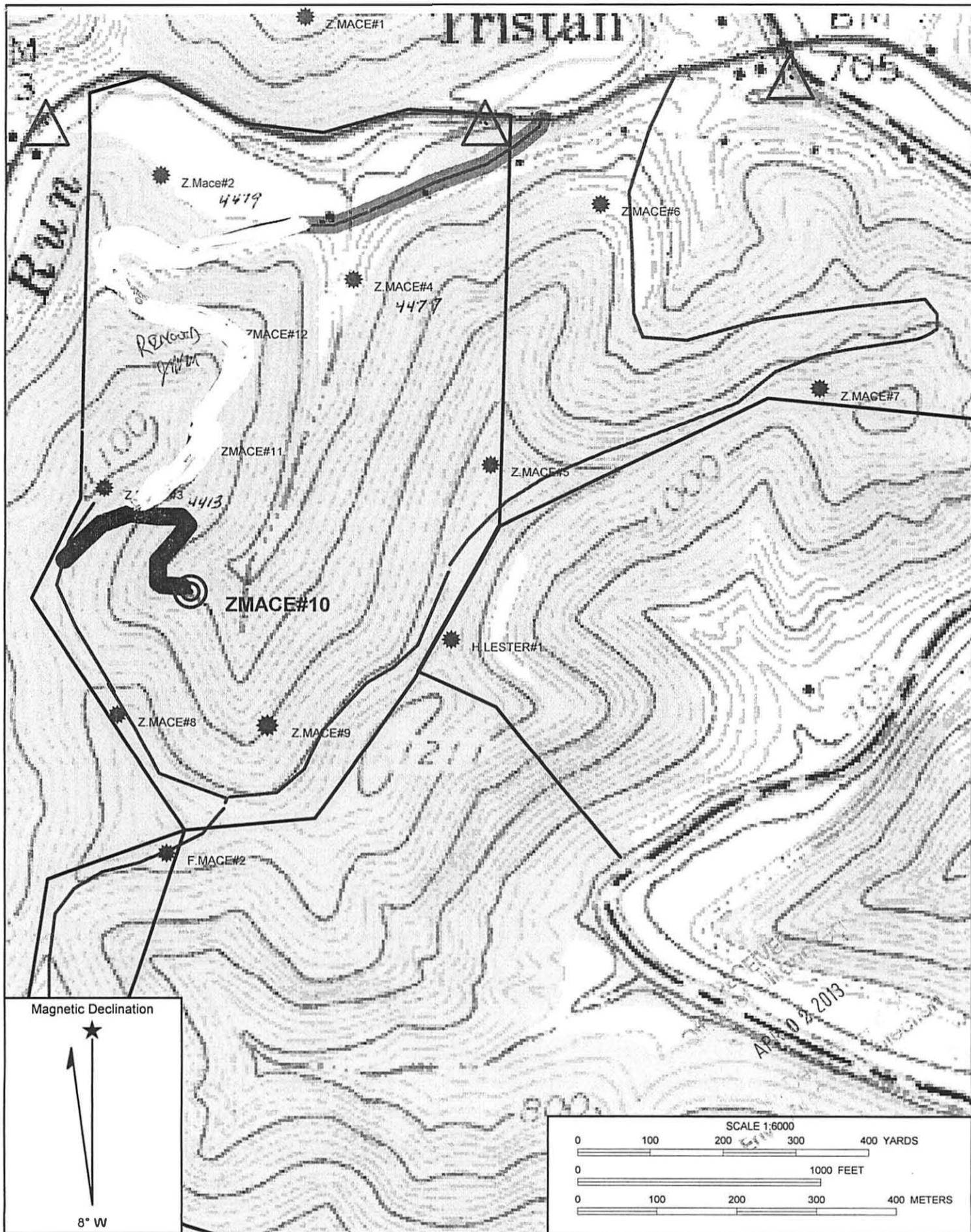
Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

A handwritten signature in black ink, appearing to read 'James Martin', is written over the typed name and title.

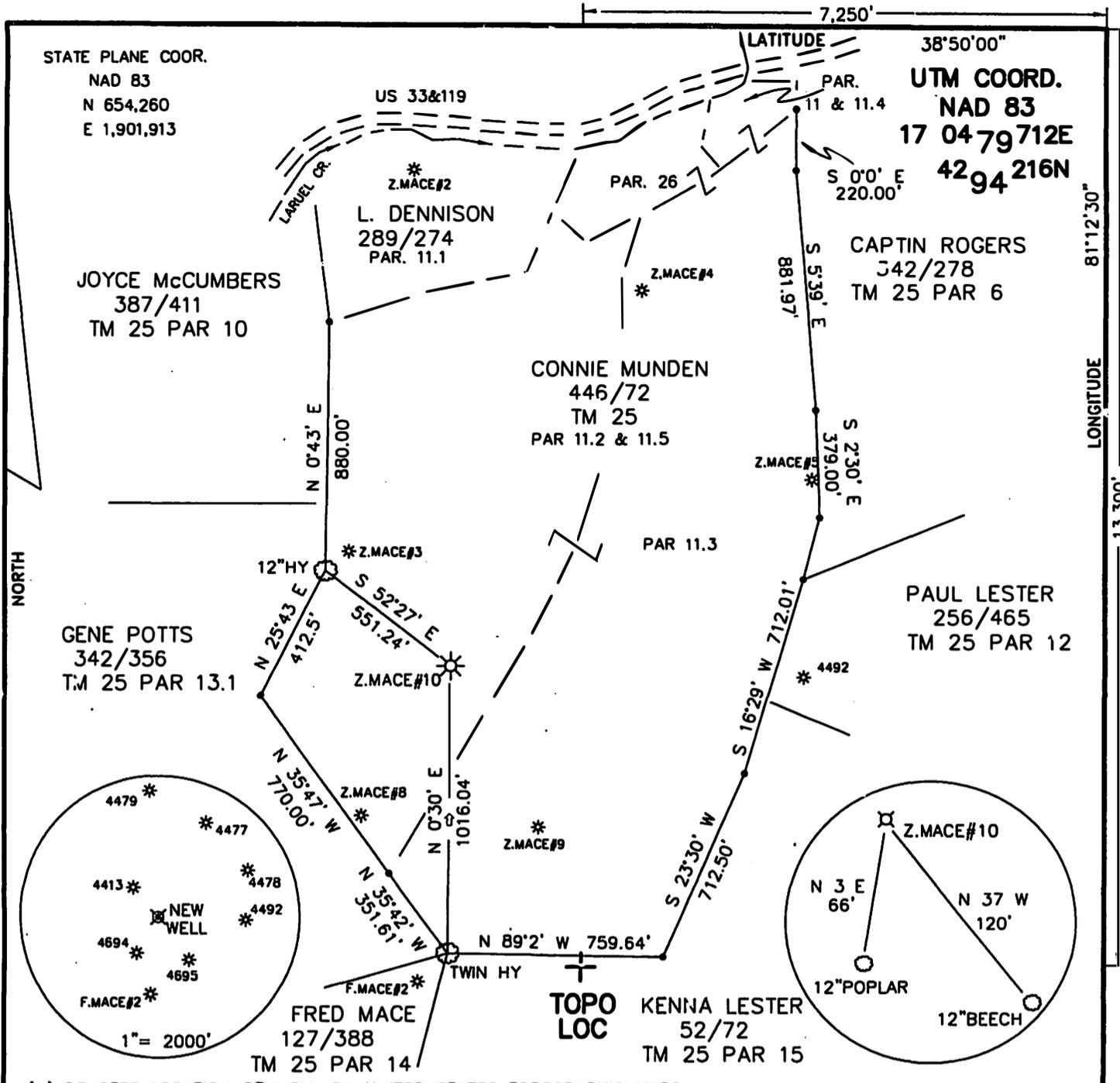
James Martin
Chief

Operator's Well No: ZANNIE MACE #10
Farm Name: MUNDEN, CONNIE
API Well Number: 47-8704733
Permit Type: Vertical Well
Date Issued: 04/29/2013

Promoting a healthy environment.



Copyright (C) 1997, Maptech, Inc.



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

FILE NO. _____
 DRAWING NO. 13-1
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION GPS

I THE UNDERSIGNED, HEREPY 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) _____
 R.P.E. _____ L.L.S. 851



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

DATE 3/1, 2013
 OPERATOR'S WELL NO. Z.MACE#10
 API WELL NO. 47-087-04733
 STATE WV COUNTY ROANE PERMIT 47-087-04733

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

LOCATION: ELEVATION 900 WATER SHED LAUREL RUN OF HENRY FORK
 DISTRICT SPENCER COUNTY ROANE
 QUADRANGLE ARNOLDSBURG

SURFACE OWNER CONNIE MUNDEN ACREAGE 43
 OIL & GAS ROYALTY OWNER ROY G. HILDRETH JR. & OTHERS LEASE ACREAGE 345
 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 BIG INJUN ESTIMATED DEPTH 2,200

WELL OPERATOR ROY G. HILDRETH & SON, INC. DESIGNATED AGENT ROY G. HILDRETH JR.
 ADDRESS PO BOX 1007 ADDRESS PO BOX 1007
SPENCER, WV 25276 SPENCER, WV 25276



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 29, 2013

WELL WORK PERMIT

Vertical Well

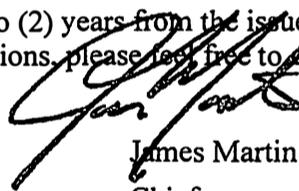
This permit, API Well Number: 47-8704734, issued to HILDRETH, ROY G., JR. & SON, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 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 completion of permitted well work, 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: ZANNIE MACE #11
Farm Name: MUNDEN, CONNIE

API Well Number: 47-8704734

Permit Type: Vertical Well

Date Issued: 04/29/2013

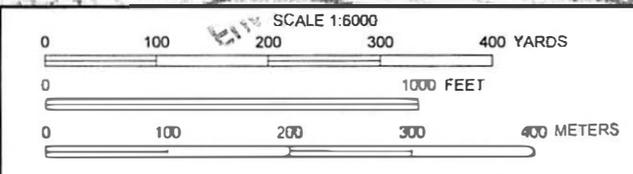
Promoting a healthy environment.

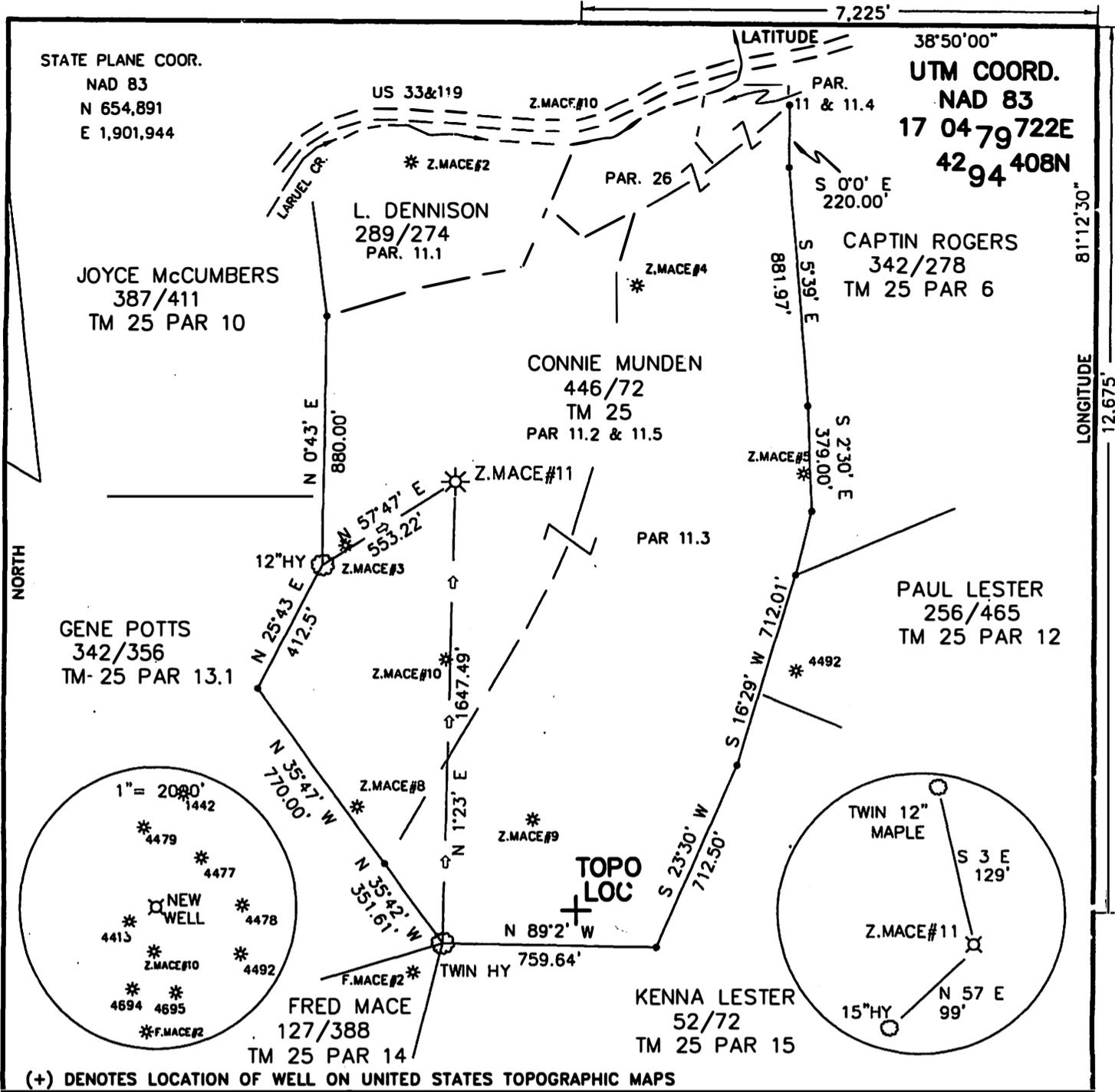


Magnetic Declination



8° W





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

FILE NO. _____
 DRAWING NO. 13-2
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION 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) *[Signature]*
 R.P.E. _____ L.L.S. 851



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

DATE 3/1, 2014
 OPERATOR'S WELL NO. Z. ACE#11
 API WELL NO. 47-087-04734
 STATE WV COUNTY SPENCER PERMIT 04734

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

LOCATION: ELEVATION 1034 WATER SHED LAUREL RUN OF HENRY FORK
 DISTRICT SPENCER COUNTY ROANE
 QUADRANGLE ARNOLDSBURG

SURFACE OWNER CONNIE MUNDEN ACREAGE 43
 OIL & GAS ROYALTY OWNER ROY G. HILDRETH JR. & OTHERS LEASE ACREAGE 345
 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): _____

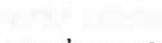
PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____

TARGET FORMATION BIG INJUN ESTIMATED DEPTH 2,200
 WELL OPERATOR ROY G. HILDRETH & SON, INC. DESIGNATED AGENT ROY G. HILDRETH JR.
 ADDRESS PO BOX 1007 ADDRESS PO BOX 1007
SPENCER, WV 25276 SPENCER, WV 25276



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, 
www.dep.wv.gov

April 29, 2013

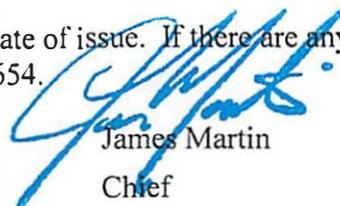
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4902257, issued to CONSOLIDATION COAL COMPANY, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

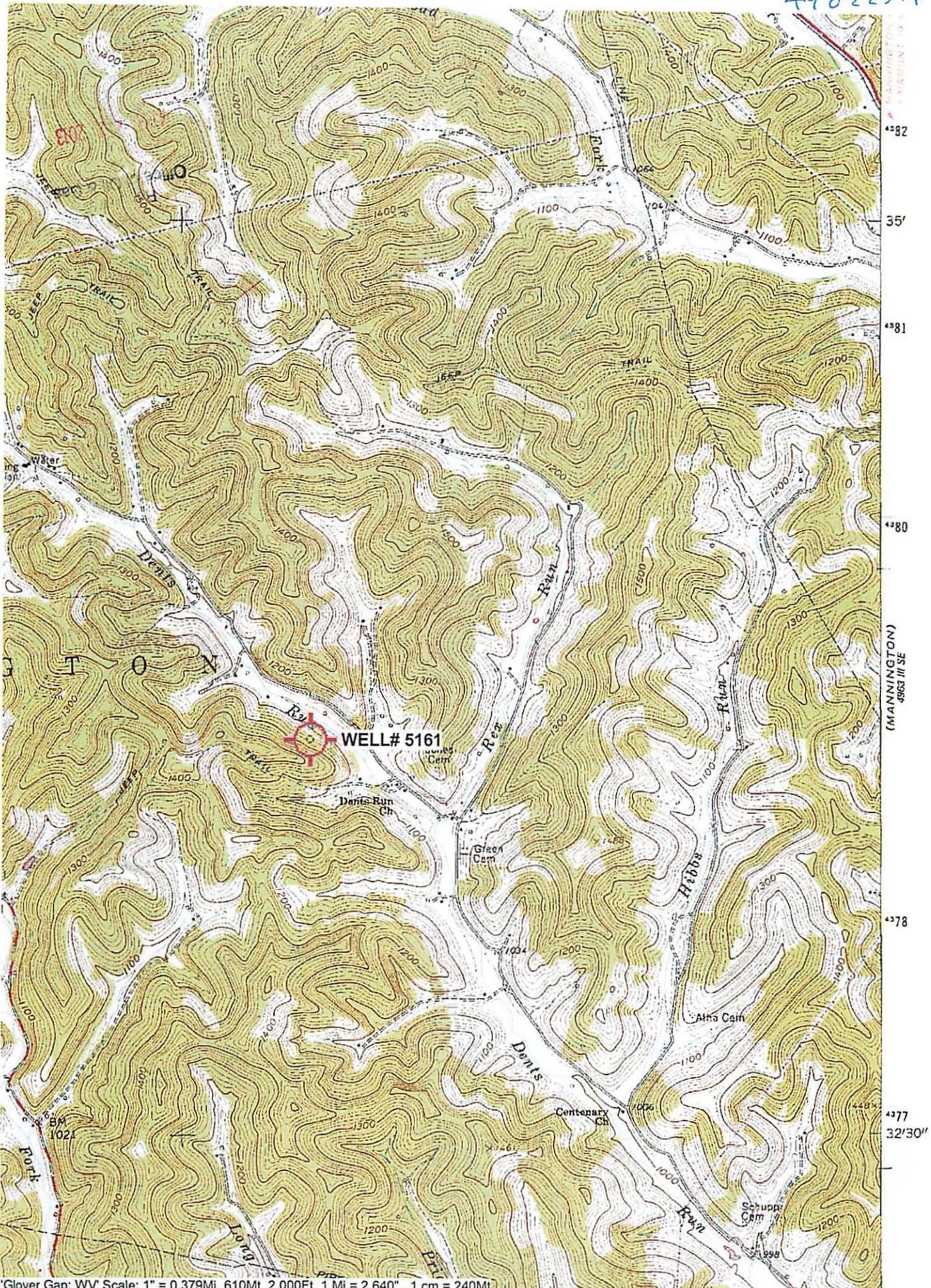


James Martin
Chief

Operator's Well No: 5161
Farm Name: CYPHERS, DOUGLAS L.
API Well Number: 47-4902257
Permit Type: Plugging
Date Issued: 04/29/2013

Promoting a healthy environment.

4902257P



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

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-049- WELL NO.: 5161

FARM NAME: A J Hays

RESPONSIBLE PARTY NAME: _____

COUNTY: Marion DISTRICT: Mannington

QUADRANGLE: Glover Gap

SURFACE OWNER: Douglas L. Cyphers

ROYALTY OWNER: _____

UTM GPS NORTHING: 4,379,073 m

UTM GPS EASTING: 550,789 m GPS ELEVATION: 357 m 1170. FT

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:

Survey grade GPS ____: Post Processed Differential ____
Real-Time Differential ____

Mapping Grade GPS X: Post Processed Differential X
Real-Time Differential ____

- Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

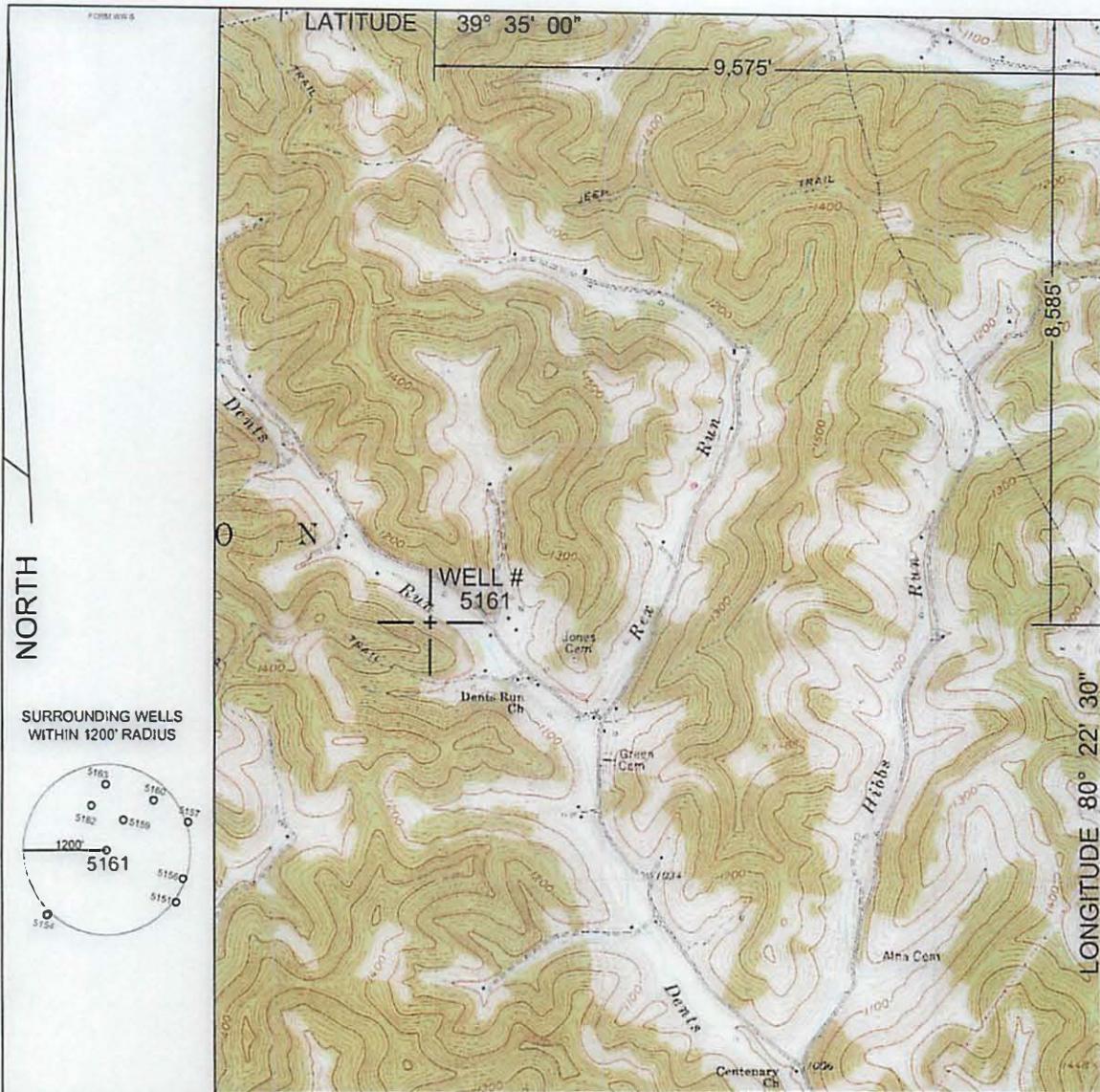
Signature
April 11, 2013

Date

2013 APR 22 1:28

Professional Surveyor
Title

RECEIVED



UTM ZONE 17N NAD83 CONUS	LAT/LONG NAD27 CONUS
NORTHING 4,379,073 METERS	39° 33' 35.4" N
EASTING 550,789 METERS	80° 24' 32.4" W

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 11, 20 13
 OPERATORS WELL NO. 5161
 API WELL NO. 47 - 49 - 02257P
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY: 1/2500 FILE NO.: GLOVERGAP6 DWG
 SCALE: 1"=2000'
 PROVEN SOURCE OF ELEVATION: GPS METADATA OR 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 _____ "GAS" PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW

LOCATION: ELEVATION: 1170.31' WATERSHED: DENTS RUN OF BUFFALO CREEK
 DISTRICT: MANNINGTON COUNTY: MARION QUADRANGLE: GLOVER GAP, WV 7.5'
 SURFACE OWNER: DOUGLAS L. CYPHERS ACREAGE: 24.8± ACRES
 ROYALTY OWNER: _____ LEASE ACREAGE: _____
 PROPOSED WORK: _____ LEASE NO.: _____
 DRILL: _____ CON. RT.: _____ DRILL DEEPER: _____ REDRILL: _____ FRACTURE OR STIMULATE: _____ PLUG OFF OLD: _____
 FORMATION _____ PERFORATE NEW FORMATION: _____ PLUG AND ABANDON: CLEANOUT 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 ADDRESS: 1 BRIDGE

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 30, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8702715, issued to TRIAD HUNTER, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 6
Farm Name: NUTTER, JOHN
API Well Number: 47-8702715
Permit Type: Plugging
Date Issued: 04/30/2013

Promoting a healthy environment.



8702715 P well # 6
478,255E, 4,301,275N, UTM17 NAD83



WW:7
8-30-06



RECEIVED
Office of Oil & Gas

APR 02 2012

West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-87-2715P WELL NO.: 6

FARM NAME: Smith Simons

RESPONSIBLE PARTY NAME: Triad Hunter

COUNTY: Roane DISTRICT: Gar4

QUADRANGLE: TAKI'FP

SURFACE OWNER: John Nutter

ROYALTY OWNER: _____

UTM GPS NORTHING: ~~4393757~~ 4301274.667

UTM GPS EASTING: ~~462536~~ 478254.811 GPS ELEVATION: 874

RECEIVED
Office of Oil & Gas
MAR 20 2012
West Virginia Department of
Environmental Protection

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude height above mean sea level (MSL) -- meters.
2. Accuracy to Datum -- 3.05 meters
3. Data Collection Method:

Survey grade GPS Post Processed Differential

Real-Time Differential

Mapping Grade GPS Post Processed Differential

Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information prescribed by the Office of Oil and Gas.

Steve Duckworth Pres. 2/15/12
Signature Title Date



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. Hulliman, Cabinet Secretary
www.dep.wv.gov

May 01, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4301491, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

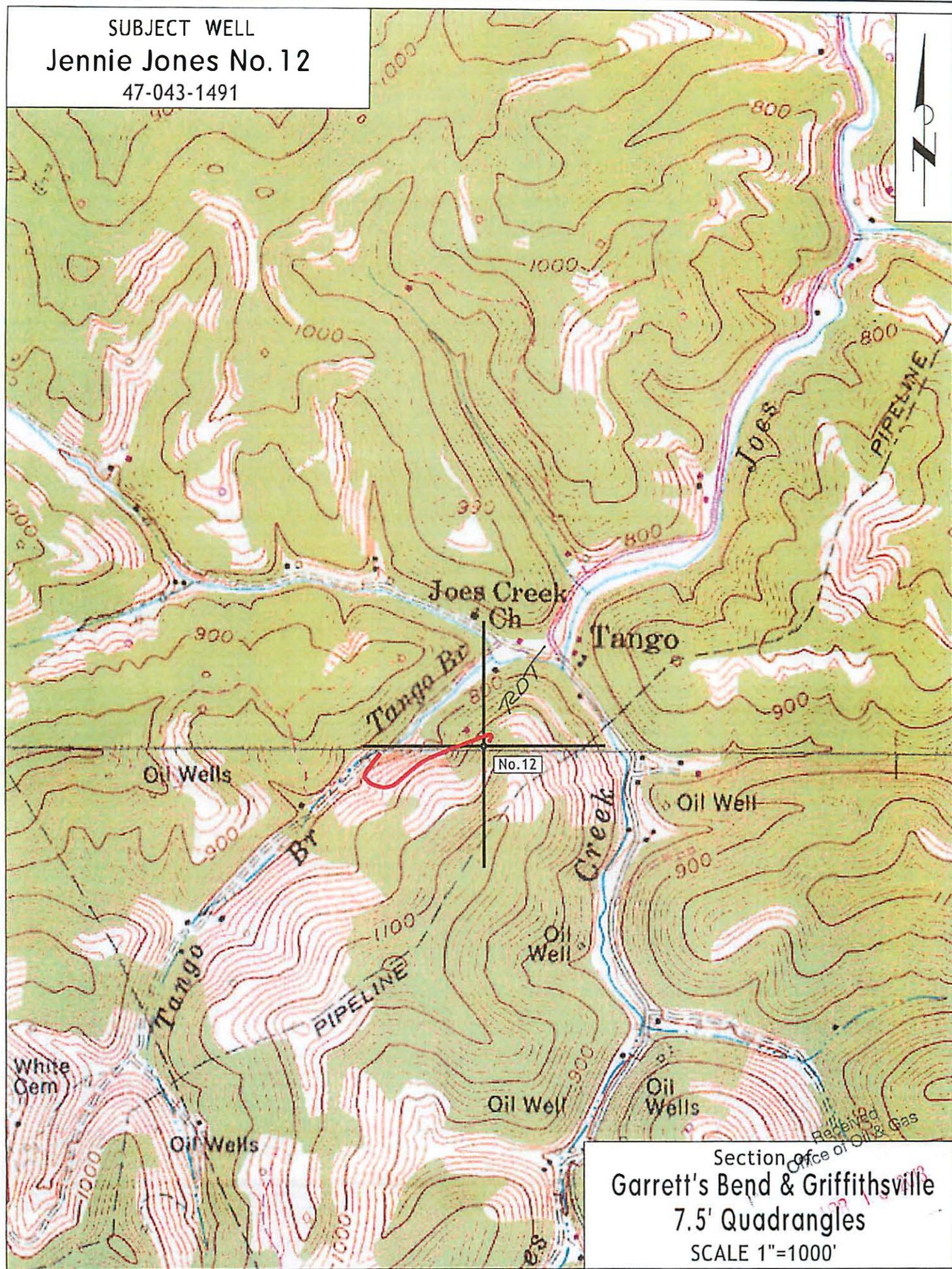
A blue ink signature of James Martin, Chief.

James Martin
Chief

Operator's Well No: 12
Farm Name: WADE, FREEMAN & WILMA
API Well Number: 47- 4301491
Permit Type: Plugging
Date Issued: 05/01/2013

Promoting a healthy environment.

SUBJECT WELL
Jennie Jones No. 12
47-043-1491



Section of
Garrett's Bend & Griffithsville
7.5' Quadrangles
SCALE 1"=1000'

4301491 P

WW-7
5-02

West Virginia Department of Environmental Protection
Office of Oil & Gas

WELL LOCATION FORM: GPS

API: 47- 043 - 1491 WELL NO: No.12

FARM NAME: Jennie Jones

RESPONSIBLE PARTY NAME: HG Energy, LLC

COUNTY: Lincoln DISTRICT: Duval

QUADRANGLE: Garrett's Bend 7.5'

SURFACE OWNER: Freeman & Wilma Wade

ROYALTY OWNER: HG Energy LLC et al.

UTM GPS NORTHING: 4,233,991

UTM GPS EASTING: 418,784 GPS ELEVATION: 291 m. 954'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit on the above well. The Office of Oil & Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) - meters.
2. Accuracy to Datum - 3.05 meters
3. Data Collection Method:

Survey Grade GPS	<input type="checkbox"/>	Post Processed Differential	<input type="checkbox"/>
		Real-Time Differential	<input type="checkbox"/>
Mapping Grade GPS	<input checked="" type="checkbox"/>	Post Processed Differential	<input checked="" type="checkbox"/>
		Real-Time Differential	<input type="checkbox"/>

I the undersigned, hereby certify this data 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 Office of Oil and Gas.



Signature

Timothy P. Roush

Professional Surveyor
Title

February 13, 2013
Date

Received
Office of Oil & Gas

APR 16 2013



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

May 01, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4301587, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

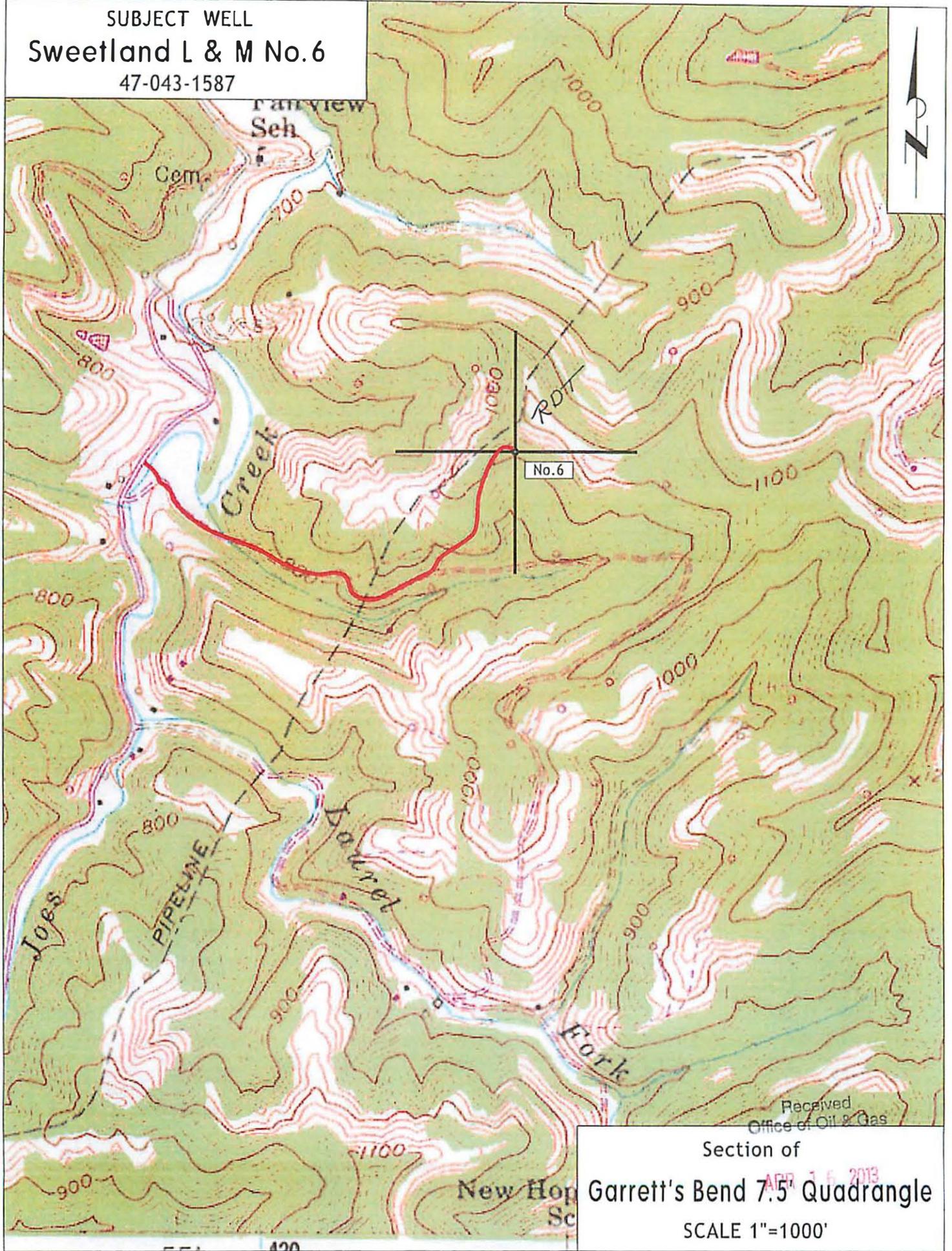
James Martin
Chief

Operator's Well No: 6
Farm Name: INGRAM, JANE T
API Well Number: 47-4301587
Permit Type: Plugging
Date Issued: 05/01/2013

Promoting a healthy environment.

4301587P

SUBJECT WELL
Sweetland L & M No.6
47-043-1587



Received
Office of Oil & Gas

Section of
Garrett's Bend 7.5' Quadrangle
SCALE 1"=1000'

APR 16 2013

4301587

WW-7
5-02

West Virginia Department of Environmental Protection
Office of Oil & Gas
WELL LOCATION FORM: GPS

API: 47- 043 - 1587 WELL NO: No.6

FARM NAME: Sweetland Land & Mineral

RESPONSIBLE PARTY NAME: HG Energy, LLC

COUNTY: Lincoln DISTRICT: Duval

QUADRANGLE: Garrett's Bend 7.5'

SURFACE OWNER: Janet Ingram

ROYALTY OWNER: HG Energy LLC et al.

UTM GPS NORTHING: 4,235,937

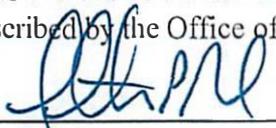
UTM GPS EASTING: 420,662 GPS ELEVATION: 311 m. 1020'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit on the above well. The Office of Oil & Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) - meters.
2. Accuracy to Datum - 3.05 meters
3. Data Collection Method:

Survey Grade GPS	<input type="checkbox"/>	Post Processed Differential	<input type="checkbox"/>
		Real-Time Differential	<input type="checkbox"/>
Mapping Grade GPS	<input checked="" type="checkbox"/>	Post Processed Differential	<input checked="" type="checkbox"/>
		Real-Time Differential	<input type="checkbox"/>

I the undersigned, hereby certify this data 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 Office of Oil and Gas.



Signature

Timothy P. Roush

Professional Surveyor
Title

Date

February 13, 2013

Received
Office of Oil & Gas

APR 16 2013



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. Huffinan, Cabinet Secretary
www.dep.wv.gov

May 01, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4301599, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

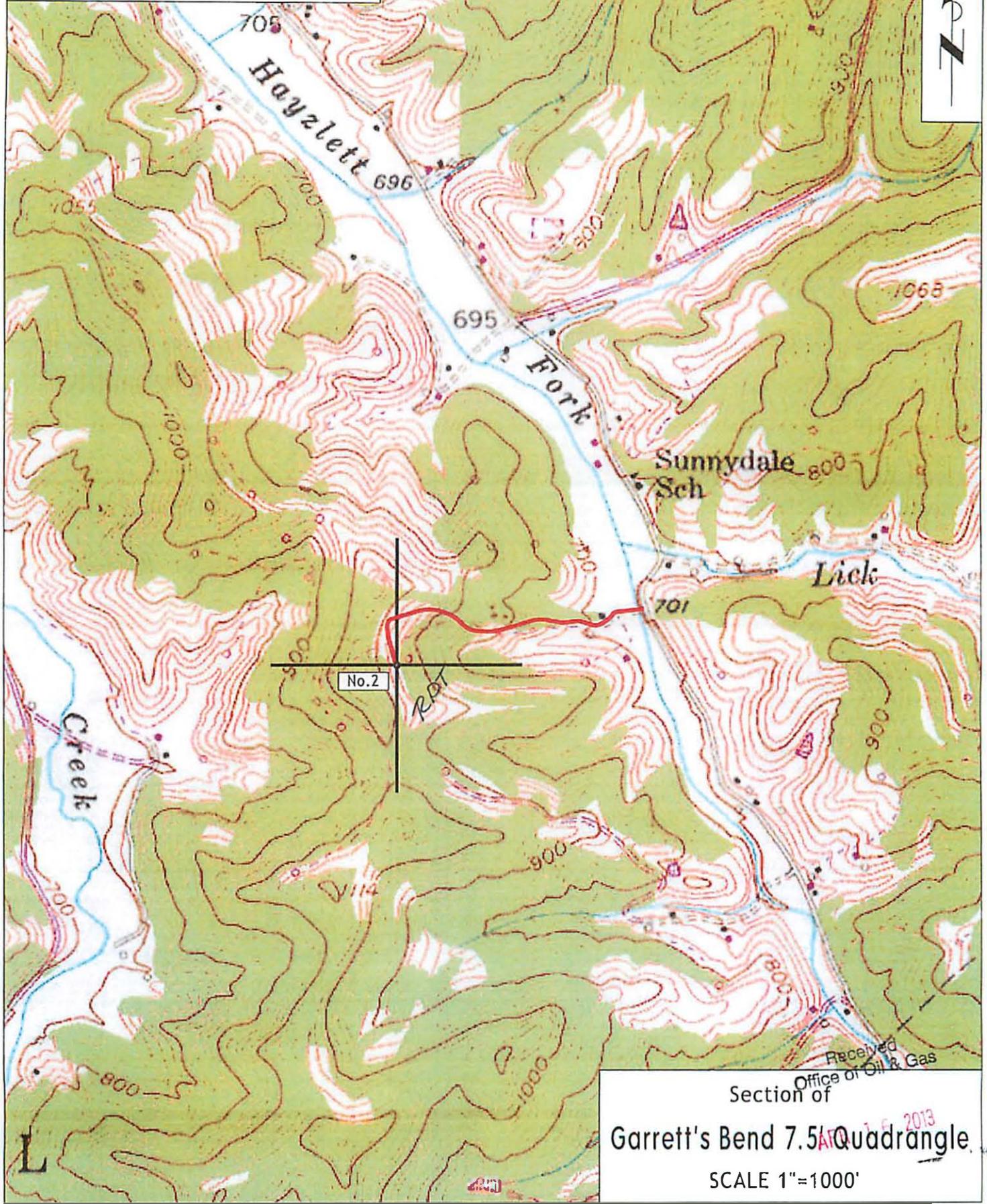
James Martin
Chief

Operator's Well No: 2
Farm Name: WILLIAMS, EARL ET AL.
API Well Number: 47-4301599
Permit Type: Plugging
Date Issued: 05/01/2013

Promoting a healthy environment.

4301599P

SUBJECT WELL
W.E. Williams No. 2
47-043-1599



Section of
Garrett's Bend 7.5 Minute Quadrangle
SCALE 1"=1000'

4301599 P

WW-7
5-02

West Virginia Department of Environmental Protection
Office of Oil & Gas

WELL LOCATION FORM: GPS

API: 47- 043 - 1599 WELL NO: No.2

FARM NAME: W.E. Williams

RESPONSIBLE PARTY NAME: HG Energy, LLC

COUNTY: Lincoln DISTRICT: Duval

QUADRANGLE: Garrett's Bend 7.5'

SURFACE OWNER: Earl Williams et al.

ROYALTY OWNER: HG Energy LLC et al.

UTM GPS NORTHING: 4,238,195

UTM GPS EASTING: 421,013 GPS ELEVATION: 301 m. 987 FT.

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit on the above well. The Office of Oil & Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone:17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) - meters.
2. Accuracy to Datum - 3.05 meters
3. Data Collection Method:

Survey Grade GPS Post Processed Differential
 Real-Time Differential

Mapping Grade GPS Post Processed Differential
 Real-Time Differential

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Timothy P. Roush

Signature

Professional Surveyor

Title

February 13, 2013

Date

Received
Office of Oil & Gas

APR 16 2013

Small illegible stamp at bottom right



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

May 01, 2013

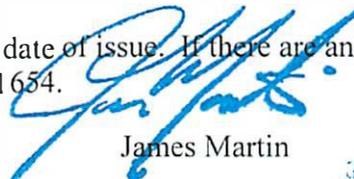
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4301810, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



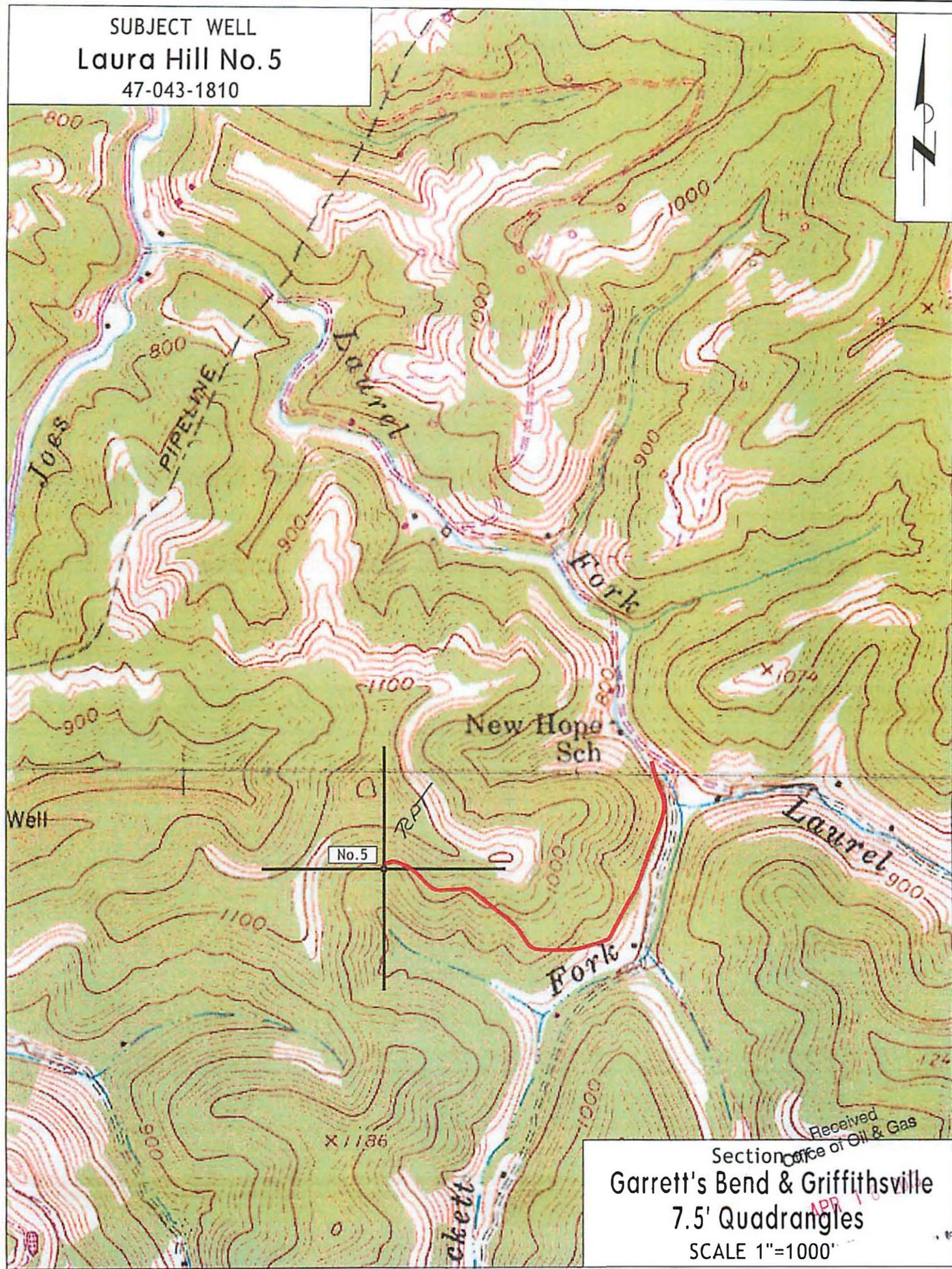
James Martin
Chief

Operator's Well No: LAURA HILL 5
Farm Name: DUNLAP, MARK & ARTHUR
API Well Number: 47-4301810
Permit Type: Plugging
Date Issued: 05/01/2013

Promoting a healthy environment.

A301810P

SUBJECT WELL
Laura Hill No.5
47-043-1810



Section of
Garrett's Bend & Griffithsville
7.5' Quadrangles
SCALE 1"=1000'

Received
Office of Oil & Gas

APR 1 1968



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

May 01, 2013

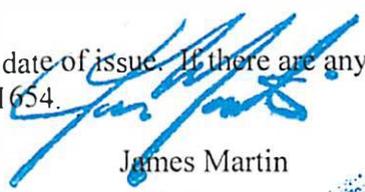
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8703129, issued to TRIAD HUNTER, 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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This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: MJ SNODGRASS 16
Farm Name: VINEYARD, DAVE
API Well Number: 47-8703129
Permit Type: Plugging
Date Issued: 05/01/2013

Promoting a healthy environment.



Data use subject to license.

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8703129P

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-087-3129 WELL NO.: 16

FARM NAME: MJ Snodgrass

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Roane DISTRICT: Smithfield

QUADRANGLE: Tariff

SURFACE OWNER: Dave Vineyard

ROYALTY OWNER: Please See Attached sheets

UTM GPS NORTHING: 4279730.19

UTM GPS EASTING: 482440.87 GPS ELEVATION: 921'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

[Signature]
Signature

SR. VP. APPRAISER OP.
Title

2/26/2013
Date



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

May 01, 2013

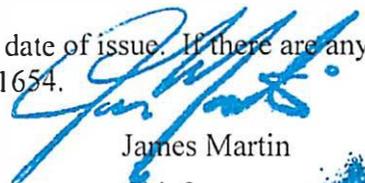
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8703177, issued to TRIAD HUNTER, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

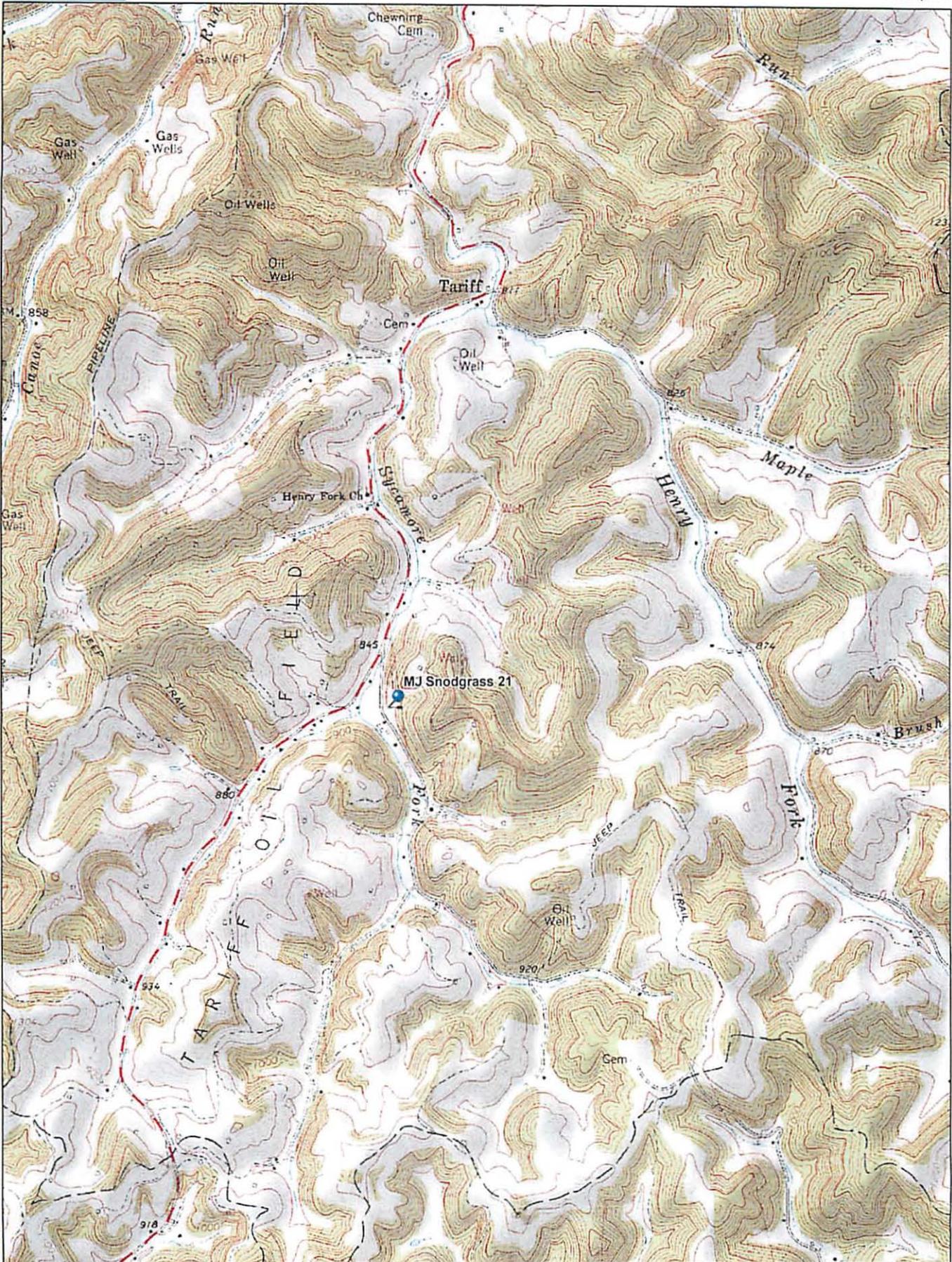
This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: 21
Farm Name: VINEYARD, DAVE
API Well Number: 47-8703177
Permit Type: Plugging
Date Issued: 05/01/2013

Promoting a healthy environment.



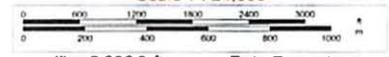
Data use subject to license.

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www.delorme.com



Scale 1 : 24,000



1" = 2,000.0 ft Data Zoom 13-3

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-87-3177 WELL NO.: 21

FARM NAME: MJ Snodgrass

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Roane DISTRICT: Smithfield

QUADRANGLE: Tariff

SURFACE OWNER: Dave Vineyard

ROYALTY OWNER: Please see attached sheets

UTM GPS NORTHING: 4279318.35

UTM GPS EASTING: 482311.29 GPS ELEVATION: 887'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Kenny Rose
Signature

Sec. VP. Appalachia Op.
Title

2/26/2013
Date



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

May 01, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8703399, issued to TRIAD HUNTER, 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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This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 300
Farm Name: HUNT, JOHN
API Well Number: 47-8703399
Permit Type: Plugging
Date Issued: 05/01/2013

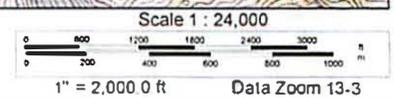
Promoting a healthy environment.



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www.delorme.com



WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-087-3399 WELL NO.: 300
 FARM NAME: John Hunt
 RESPONSIBLE PARTY NAME: Triad Hunter, LLC
 COUNTY: Roane DISTRICT: Geary
 QUADRANGLE: Newton
 SURFACE OWNER: John Hunt
 ROYALTY OWNER: Please see attached sheet
 UTM GPS NORTHING: 4268279.19
 UTM GPS EASTING: 486919.41 GPS ELEVATION: 1095'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Signature

SR. VP. Appalachia

Title

2/26/2013

Date



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

May 01, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8703415, issued to TRIAD HUNTER, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

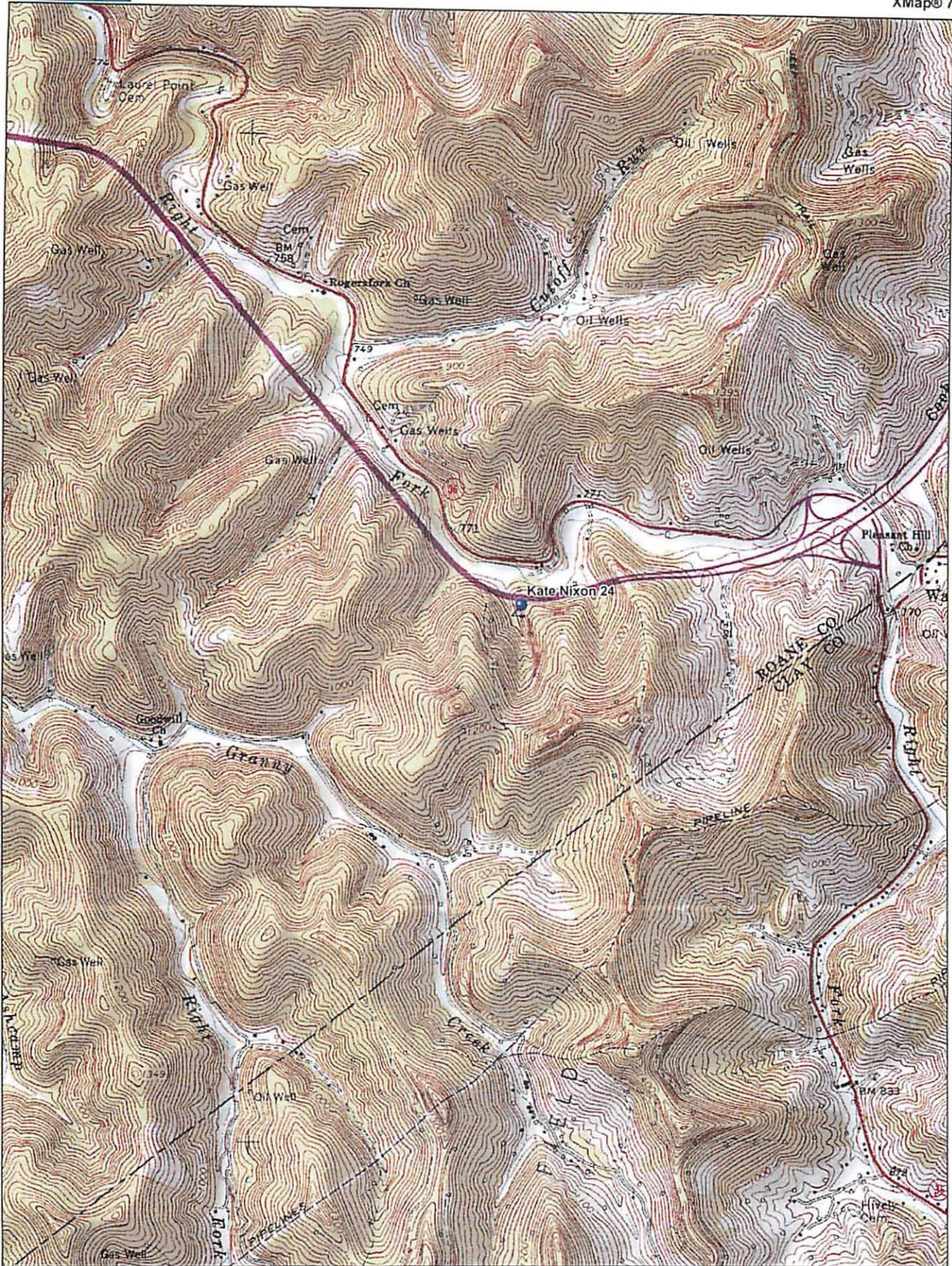
This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 24
Farm Name: WV DIVISION OF NATURAL RES
API Well Number: 47-8703415
Permit Type: Plugging
Date Issued: 05/01/2013

Promoting a healthy environment.

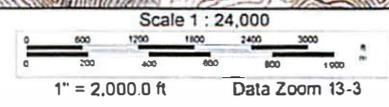
8703415P



Data use subject to license.

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87 03415P

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-087-3415 WELL NO.: 24

FARM NAME: Kate Nixon

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Roane DISTRICT: Geary

QUADRANGLE: Newton

SURFACE OWNER: WV Division of Natural Resources

ROYALTY OWNER: Please see attached sheet

UTM GPS NORTHING: 4268371.61

UTM GPS EASTING: 486726.51 GPS ELEVATION: 797'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS ____: Post Processed Differential ____

Real-Time Differential ____

Mapping Grade GPS ____: Post Processed Differential ____

Real-Time Differential ____

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Signature

Sr. VP Appalachia OP

Title

2/26/2013

Date



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

May 01, 2013

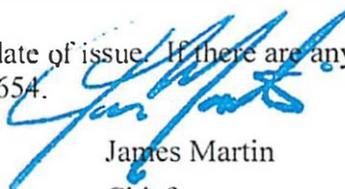
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8703416, issued to TRIAD HUNTER, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

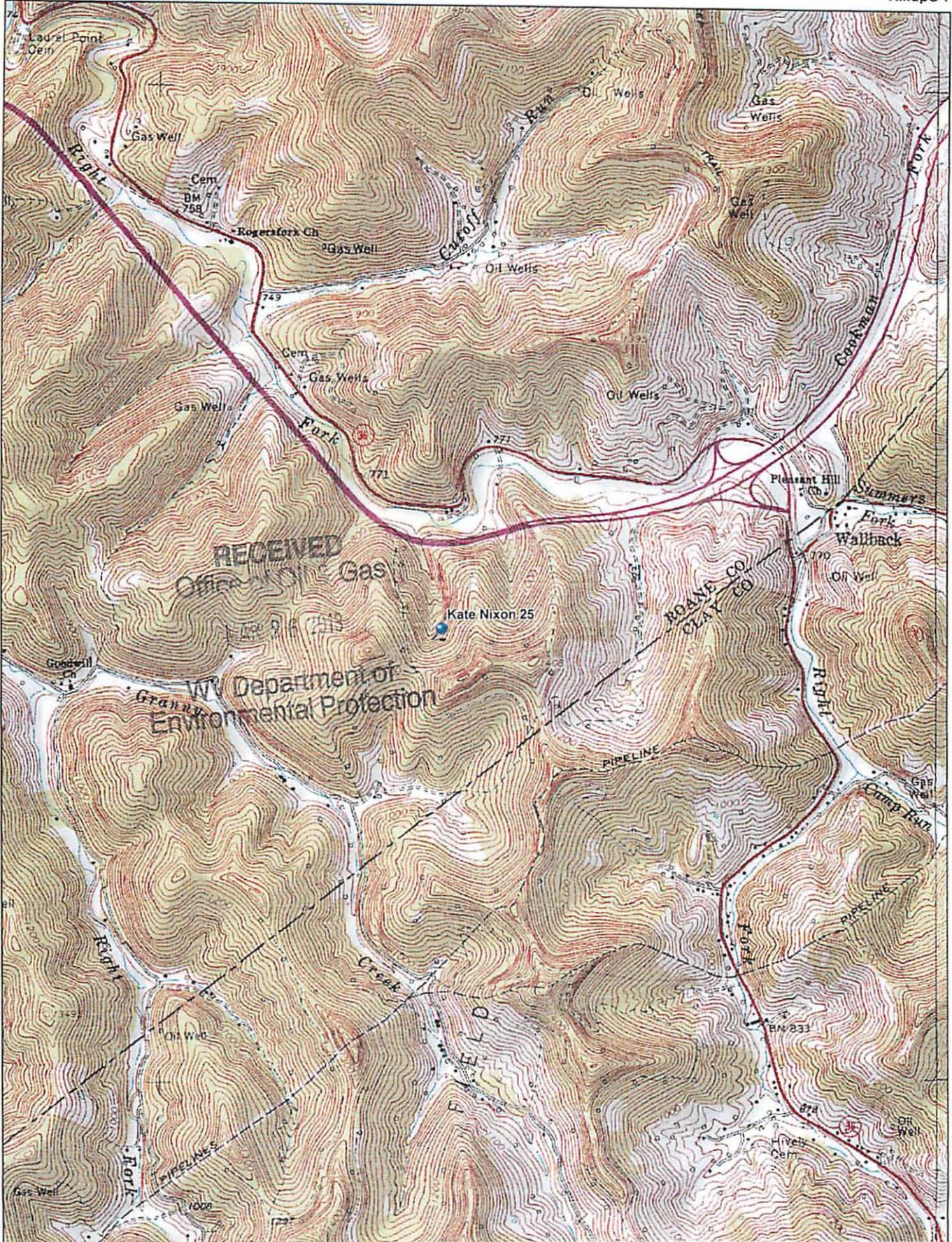
This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: 25
Farm Name: WV DIVISION OF NATURAL RES
API Well Number: 47-8703416
Permit Type: Plugging
Date Issued: 05/01/2013

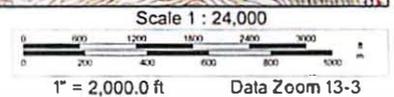
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WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-87-3416 WELL NO.: 25

FARM NAME: Kate Nixon

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Roane DISTRICT: Geary

QUADRANGLE: Newton

SURFACE OWNER: Division of Natural Resources

ROYALTY OWNER: Please see attached sheets

UTM GPS NORTHING: 4268001.34

UTM GPS EASTING: 486774.15 GPS ELEVATION: 1073'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Signature

SR VP APPLICATION OP

Title

2/26/2013

Date



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

May 01, 2013

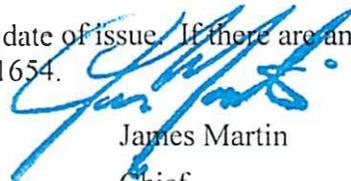
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8703674, issued to TRIAD HUNTER, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

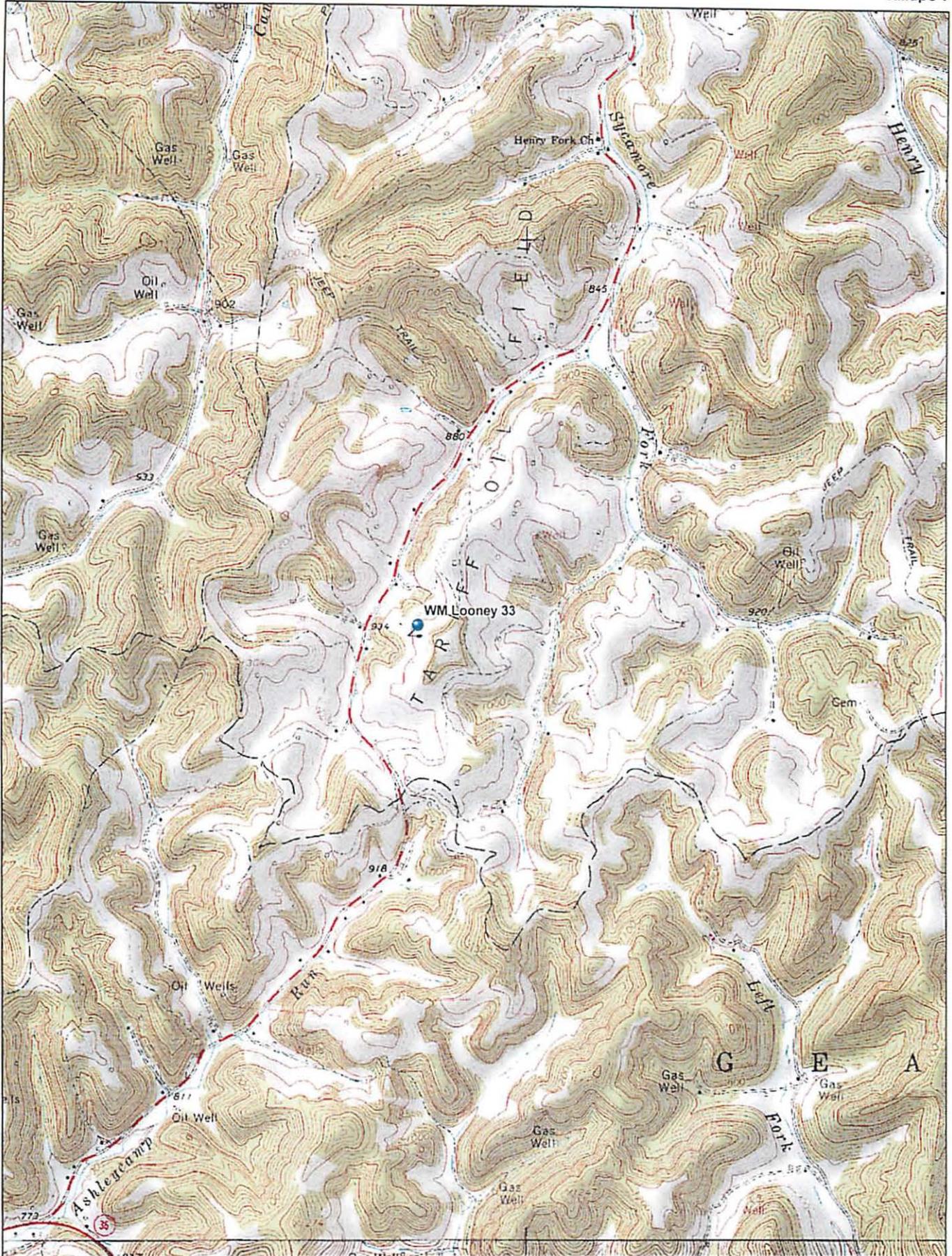
This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: 33
Farm Name: TRIAD HUNTER, LLC
API Well Number: 47-8703674
Permit Type: Plugging
Date Issued: 05/01/2013

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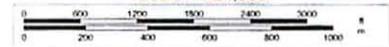
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Scale 1 : 24,000



1" = 2,000.0 ft

Data Zoom 13-3

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-087-3674 WELL NO.: 33
 FARM NAME: WM Looney
 RESPONSIBLE PARTY NAME: Triad Hunter, LLC
 COUNTY: Roane DISTRICT: Smithfield
 QUADRANGLE: Newton
 SURFACE OWNER: Triad Hunter
 ROYALTY OWNER: Please See Attached Sheets
 UTM GPS NORTHING: 4278001.65
 UTM GPS EASTING: 481329.17 GPS ELEVATION: 1081'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Kenny Pearson
Signature

SP-VG ATTORNEY OP.
Title

2/20/2013
Date



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

May 01, 2013

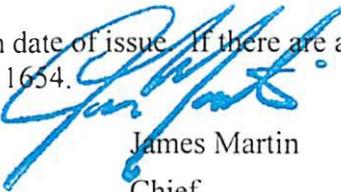
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8704081, issued to TRIAD HUNTER, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: SNODGRASS 106
Farm Name: TRUMAN, RENEE
API Well Number: 47-8704081
Permit Type: Plugging
Date Issued: 05/01/2013

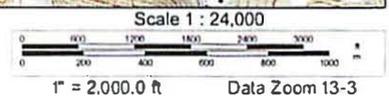
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WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-87-4081 WELL NO.: 106
FARM NAME: MJ Snodgrass
RESPONSIBLE PARTY NAME: Triad Hunter, LLC
COUNTY: Roane DISTRICT: Smithfield
QUADRANGLE: Tariff
SURFACE OWNER: Renee Truman
ROYALTY OWNER: Please see attached sheets
UTM GPS NORTHING: 4280095.28
UTM GPS EASTING: 482377.04 GPS ELEVATION: 937'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

- 1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- 2. Accuracy to Datum – 3.05 meters
- 3. Data Collection Method:
Survey grade GPS ____ : Post Processed Differential ____
Real-Time Differential ____
Mapping Grade GPS X : Post Processed Differential X
Real-Time Differential ____

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Bon Smethers Geologist 4/3/13
Signature Title Date



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

May 02, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1501649, issued to TRIAD HUNTER, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 112
Farm Name: STARCHER, RONALD
API Well Number: 47-1501649
Permit Type: Plugging
Date Issued: 05/02/2013

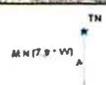
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Scale 1 : 28,125

0 200 400 600 800 1000 2000 4000 8000

1" = 2,343.8 ft Data Zoom 13-1

1501649A

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-15-1649 WELL NO.: 112

FARM NAME: J.B. Casto

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Clay DISTRICT: Henry

QUADRANGLE: Newton

SURFACE OWNER: Ronald Starcher

ROYALTY OWNER: Please see attached sheets

UTM GPS NORTHING: 4265810.34

UTM GPS EASTING: 486400.24 GPS ELEVATION: 1292'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential
Real-Time Differential

Mapping Grade GPS : Post Processed Differential
Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Signature

SR VP APPALACHIAN VP.

Title

2/26/2013

Date



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

May 02, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1502001, issued to TRIAD HUNTER, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 131
Farm Name: MOORE, RAY
API Well Number: 47-1502001
Permit Type: Plugging
Date Issued: 05/02/2013

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WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-15-2001 WELL NO.: 131
FARM NAME: J.B. Casto
RESPONSIBLE PARTY NAME: Triad Hunter, LLC
COUNTY: CLAY DISTRICT: Henry
QUADRANGLE: Newton
SURFACE OWNER: Ray Moore
ROYALTY OWNER: Please see attached sheets
UTM GPS NORTHING: 4265037.54
UTM GPS EASTING: 486302.35 GPS ELEVATION: 1296'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential
Real-Time Differential
Mapping Grade GPS : Post Processed Differential
Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Ben Smeltzer Geologist 4/22/13
Signature Title Date



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

May 02, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1900023, issued to EQT PRODUCTION COMPANY, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: New River M-24 (418551)
Farm Name: W. Pocahontas Prop. Lmt. Partnershi
API Well Number: 47-1900023
Permit Type: Plugging
Date Issued: 05/02/2013

Promoting a healthy environment.

Topo Quad: Montgomery 7.5'

Scale: 1" = 2000'

County: Fayette

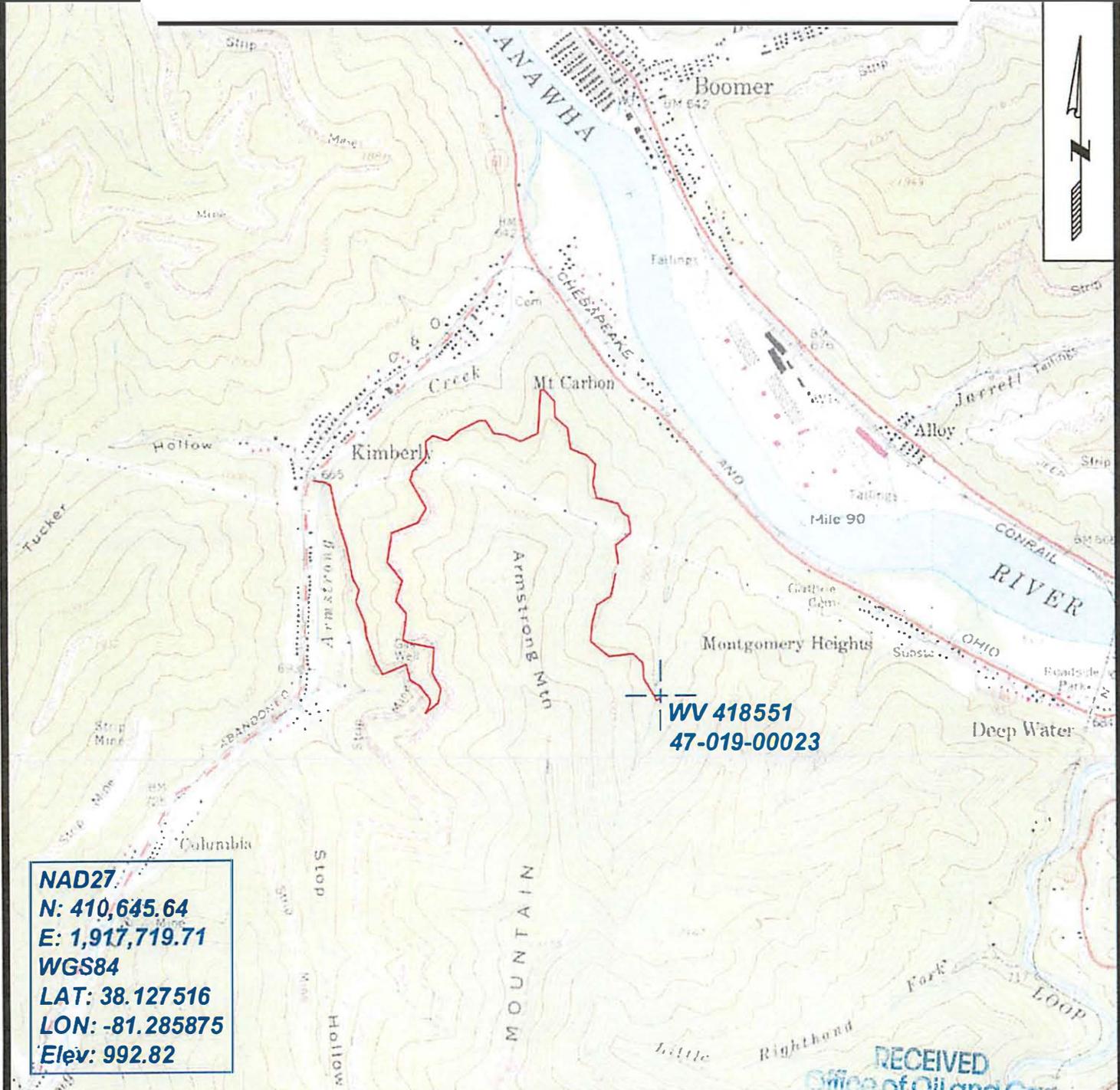
Date: February 18, 2013

District: Valley

Pr ject No: 57-05-00-07

WV 418551 New River M-24

Topo



WV 418551
47-019-00023

NAD27:
N: 410,645.64
E: 1,917,719.71
WGS84
LAT: 38.127516
LON: -81.285875
Elev: 992.82



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 P.O. BOX 438
 BIRCH RIVER, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:
EQT Production Co. Inc.
 1710 Pennsylvania Ave.
 Charleston, WV 25302
 RECEIVED
 Office of Oil and Gas
 Environmental Protection

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-019-00023 WELL NO.: WV 418551 (New River M-24)

FARM NAME: New River

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Fayette DISTRICT: Valley

QUADRANGLE: Montgomery 7.5'

SURFACE OWNER: Western Pocahontas Properties Limited Partnership

ROYALTY OWNER: Energen Resources Corporation, et al

UTM GPS NORTHING: 4220002

UTM GPS EASTING: 474944 GPS ELEVATION: 302 m (993 ft)

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters. Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:
Survey grade GPS : Post Processed Differential
Real-Time Differential
Mapping Grade GPS X: Post Processed Differential X
Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Ben Sights
Signature

P.S. 2092
Title

2-22-2013
Date

RECEIVED
Office of Oil and Gas
1900023P
Department of
Environmental Protection



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

May 02, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1900081, issued to EQT PRODUCTION COMPANY, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: BROWN 9661 (461211)
Farm Name: BIG CREEK LAND COMPANY
API Well Number: 47-1900081
Permit Type: Plugging
Date Issued: 05/02/2013

Promoting a healthy environment.

Topo Quad: Gauley Bridge 7.5'

Scale: 1" = 2000'

County: Fayette

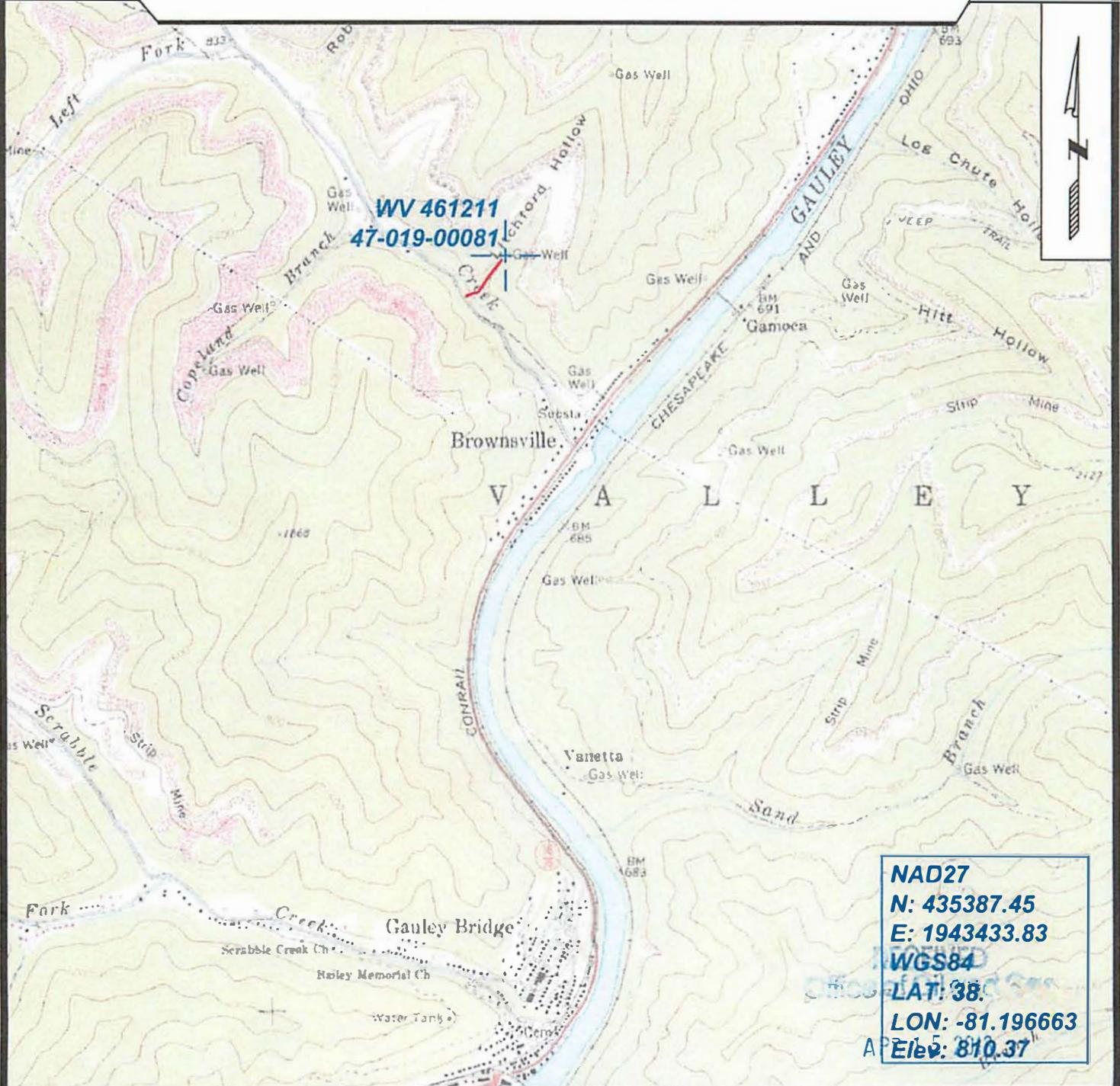
Date: February 26, 2013

District: Valley

Project No: 57-05-00-07

WV 461211 Brown 9661

Topo



WV 461211
47-019-00081

NAD27
N: 435387.45
E: 1943433.83
WGS84
LAT: 38.000000
LON: -81.196663
Elev: 810.37'



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 P.O. BOX 438
 BIRCH RIVER, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR: **Department of Environmental Protection**
EQT Production Co. Inc.
 1710 Pennsylvania Ave.
 Charleston, WV 25302

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-019-00081 WELL NO.: WV 461211

FARM NAME: Brown

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Fayette DISTRICT: Valley

QUADRANGLE: Gauley Bridge 7.5'

SURFACE OWNER: Big Creek Land Company

ROYALTY OWNER: Big Creek Land Company

UTM GPS NORTHING: 4227541

UTM GPS EASTING: 482780 GPS ELEVATION: 247 m (810 ft)

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983,
height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:
Survey grade GPS : Post Processed Differential
Real-Time Differential
Mapping Grade GPS X: Post Processed Differential X
Real-Time Differential

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

RECEIVED
Office of Oil and Gas

Ben R. Sigler
Signature
3-7-13
Date

P.S. 2092
Title

Department of Environmental Protection



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

May 02, 2013

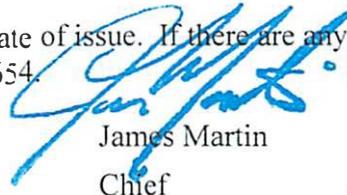
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-6101657, issued to EASTERN ASSOCIATED COAL/PEABODY COAL CO., 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

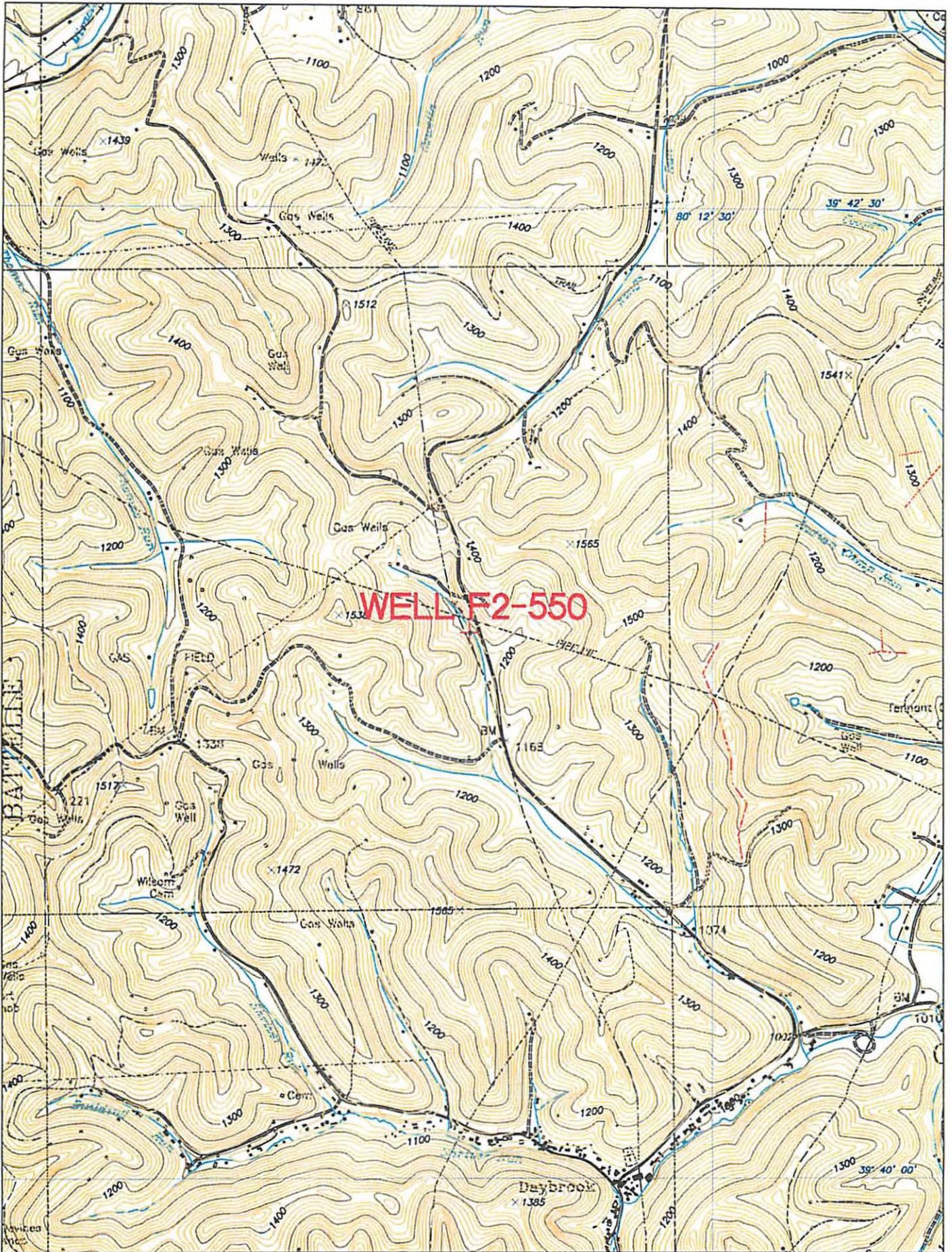


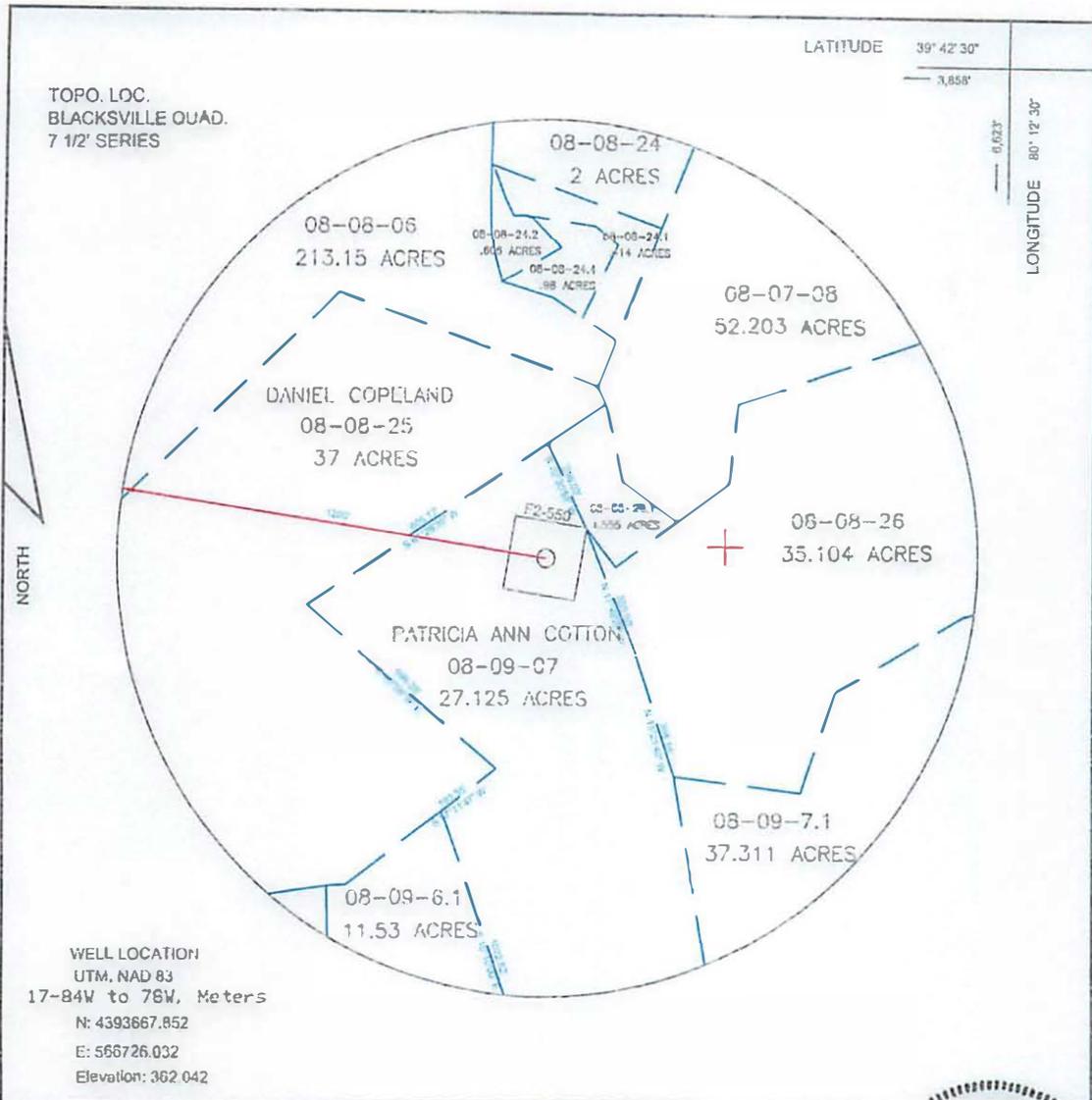
James Martin
Chief

Operator's Well No: F2-550
Farm Name: COTTON, PATRICIA ANN
API Well Number: 47-6101657
Permit Type: Plugging
Date Issued: 05/02/2013

Promoting a healthy environment.

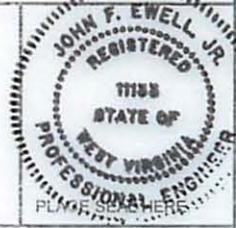
6101657P





FILE NO. WELL F2-550
DRAWING NO. F2-550 PLAT
SCALE 1"=400'
MINIMUM DEGREE OF
ACCURACY 1/2500'
PROVEN SOURCE OF
ELEVATION USGS B.M.

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) John F. Ewell Jr.
R.P.E. 11133LLS



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

DATE APR 19, 20 13
OPERATOR'S WELL NO. F2-550
API WELL NO. 47-061-01657P

FORM IV-6 (8-7B) STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION

STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS", PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1,188' WATERSHED DAYS RUN
DISTRICT CLAY COUNTY MONONGALIA
QUADRANGLE GRANT TOWN

SURFACE OWNER PATRICIA ANN COTTON ACREAGE 27.125
OIL & GAS ROYALTY OWNER UNKNOWN LEASE ACREAGE
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 BAYARD SAND ESTIMATED DEPTH 3,250'
WELL OPERATOR EASTERN ASSOC. COAL LLC DESIGNATED AGENT MATTHEW L. BONNELL
ADDRESS 1044 MIRACLE RUN ROAD ADDRESS 1044 MIRACLE RUN ROAD
FAIRVIEW WV. 26570 FAIRVIEW WV. 26570



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

May 02, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-6101132, 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.

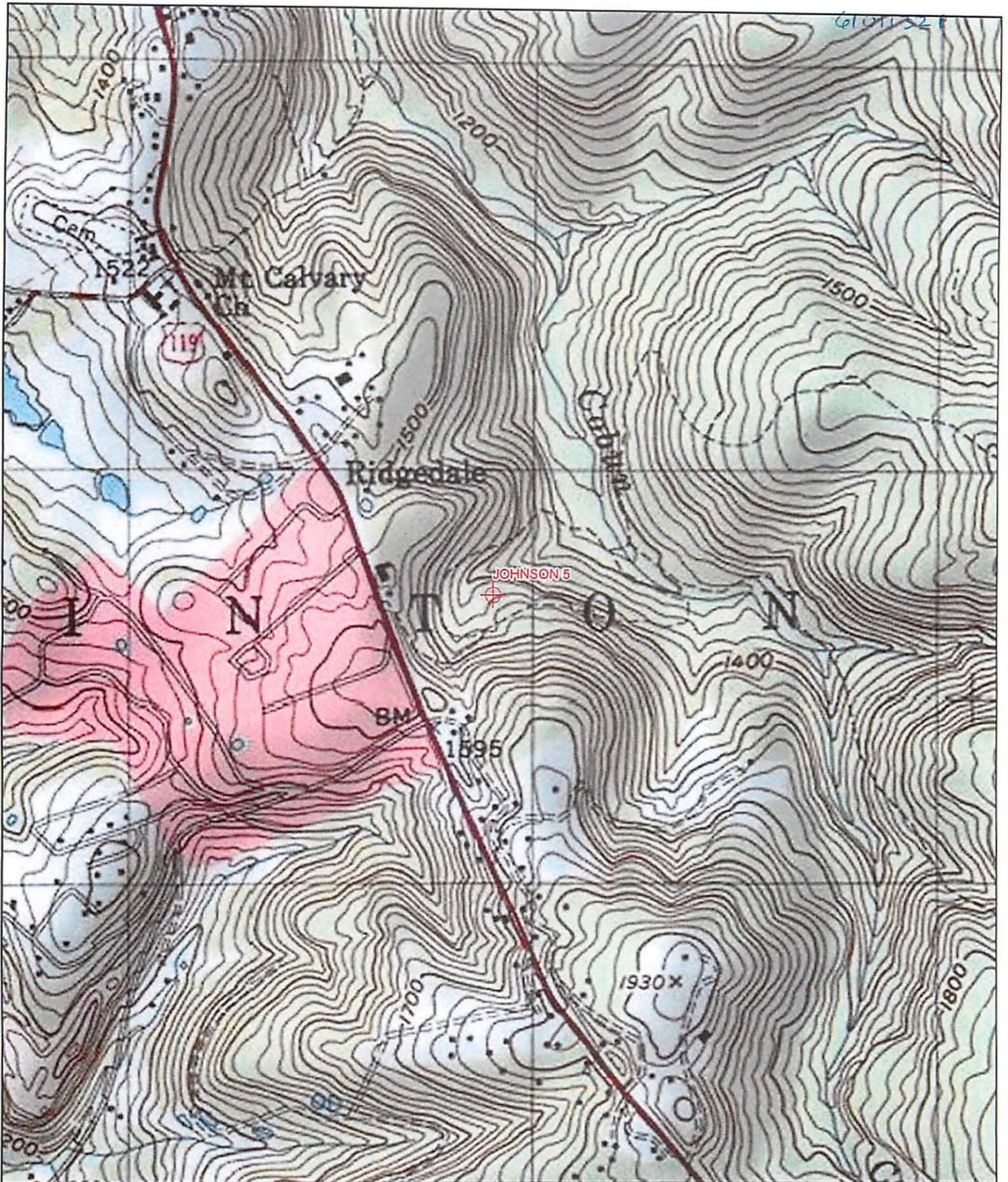
Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 911993
Farm Name: LUDWIG, ORA LEE, ETAL
API Well Number: 47-6101132
Permit Type: Plugging
Date Issued: 05/02/2013

Promoting a healthy environment.



Well: Johnson 5
 Permit : 4706101132
 Quad: Morgantown South
 District: Clinton
 County: Monongalia
 State: WV

Geographic NAD83 UTM 17N
 Latitude 39.544020
 Longitude -79.930459
UTM NAD83 (Meters)
 591900.19 E
 4377696.92 N

Received
 Office of Oil & Gas



WW-7



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-061-01132

WELL NO.: 911993

FARM NAME: Ludwig, Ora Lee ETAL

RESPONSIBLE PARTY NAME: Chesapeake Appalachia, LLC

COUNTY: Monongalia DISTRICT: Clinton

QUADRANGLE: Morgantown South

SURFACE OWNER: Judith Kiszonas, Dianna Johnson Vickers, Paul Douglas, E. Phillip Kirk Jr., and ~~Marolyn~~ ^{MARILYN} Stacey

ROYALTY OWNER: Judith Kiszonas, Dianna Johnson Vickers, Paul Douglas, E. Phillip Kirk Jr., and Marilyn Stacey

UTM GPS NORTHING: 4377696.92

UTM GPS EASTING: 591900.19

GPS ELEVATION: 1434'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:
Survey grade GPS ____ : Post Processed Differential ____
Real-Time Differential ____
Mapping Grade GPS ____ : Post Processed Differential ____
Real-Time Differential ____
4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Signature

Date

[Signature]
4/18/13

Title

Reg Analyst II

Received
Office of Oil & Gas



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

May 02, 2013

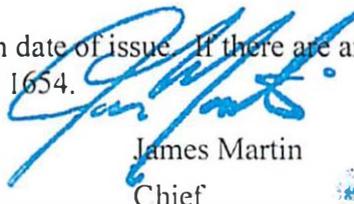
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8700257, issued to TRIAD HUNTER, 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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This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: O.D.STOCKLEY113

Farm Name: ADKINS, DUANE

API Well Number: 47-8700257

Permit Type: Plugging

Date Issued: 05/02/2013

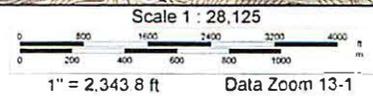
Promoting a healthy environment.



Data use subject to license.

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www.delorme.com



WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-87-0257 WELL NO.: 113
FARM NAME: O.D. Stockley
RESPONSIBLE PARTY NAME: Triad Hunter, LLC
COUNTY: Roane DISTRICT: Geary
QUADRANGLE: Newton
SURFACE OWNER: Duane Adkins
ROYALTY OWNER: Please see attached sheets
UTM GPS NORTHING: 4266695.12
UTM GPS EASTING: 485983.22 GPS ELEVATION: 1285'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

- 1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- 2. Accuracy to Datum – 3.05 meters
- 3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

- 4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Ben Smith
Signature

Geologist
Title

4/3/13
Date



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

May 02, 2013

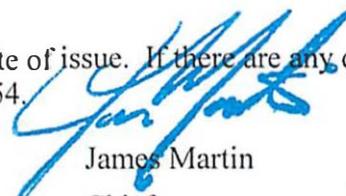
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8703400, issued to TRIAD HUNTER, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

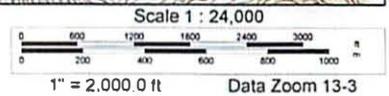
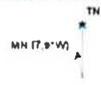


James Martin
Chief

Operator's Well No: 301
Farm Name: HUNT, JOHN
API Well Number: 47-8703400
Permit Type: Plugging
Date Issued: 05/02/2013

Promoting a healthy environment.

8703400P



8703400P

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-087-3400 WELL NO.: 301

FARM NAME: John Hunt

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Roane DISTRICT: Geary

QUADRANGLE: Newton

SURFACE OWNER: John Hunt

ROYALTY OWNER: Please see attached sheet

UTM GPS NORTHING: 4267952.72

UTM GPS EASTING: 486999.39 GPS ELEVATION: 1340'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Signature

SR.V.P. APPALACHIAN OP.

Title

2/26/2013

Date



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

May 02, 2013

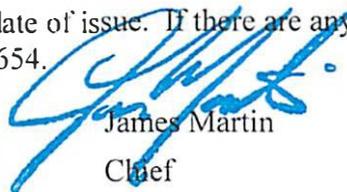
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8703401, issued to TRIAD HUNTER, 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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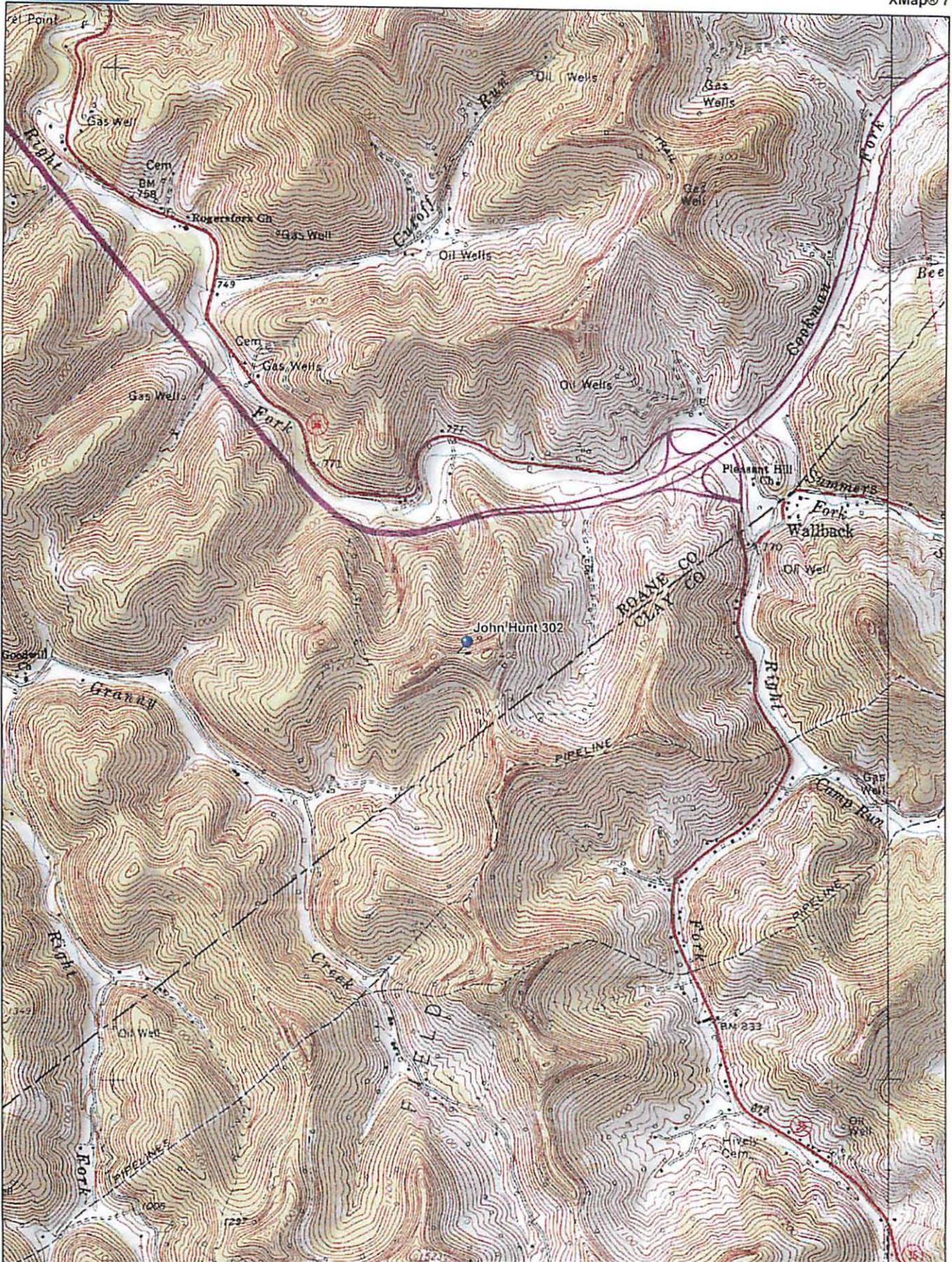
This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: 302
Farm Name: HUNT, JOHN
API Well Number: 47-8703401
Permit Type: Plugging
Date Issued: 05/02/2013

Promoting a healthy environment.



Data use subject to license.

© DeLorme. XMap® 7.

www.delorme.com



Scale 1 : 24,000



1" = 2,000.0 ft

Data Zoom 13-3

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-087-3401 WELL NO.: 302
 FARM NAME: John Hunt
 RESPONSIBLE PARTY NAME: Triad Hunter, LLC
 COUNTY: Roane DISTRICT: Geary
 QUADRANGLE: Newton
 SURFACE OWNER: John Hunt
 ROYALTY OWNER: Please see attached sheet
 UTM GPS NORTHING: 4267904.16
 UTM GPS EASTING: 487111.95 GPS ELEVATION: 1366'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983. Zone: 17 North. Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS ____: Post Processed Differential ____

Real-Time Differential ____

Mapping Grade GPS : Post Processed Differential

Real-Time Differential ____

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Ken Row
Signature

SE. VP. APPALACHIAN OP.
Title

2/26/2013
Date



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

May 03, 2013

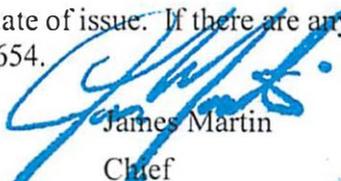
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1900083, issued to EQT PRODUCTION COMPANY, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: BROWN 9763 (461221)
Farm Name: BIG CREEK LAND COMPANY
API Well Number: 47-1900083
Permit Type: Plugging
Date Issued: 05/03/2013

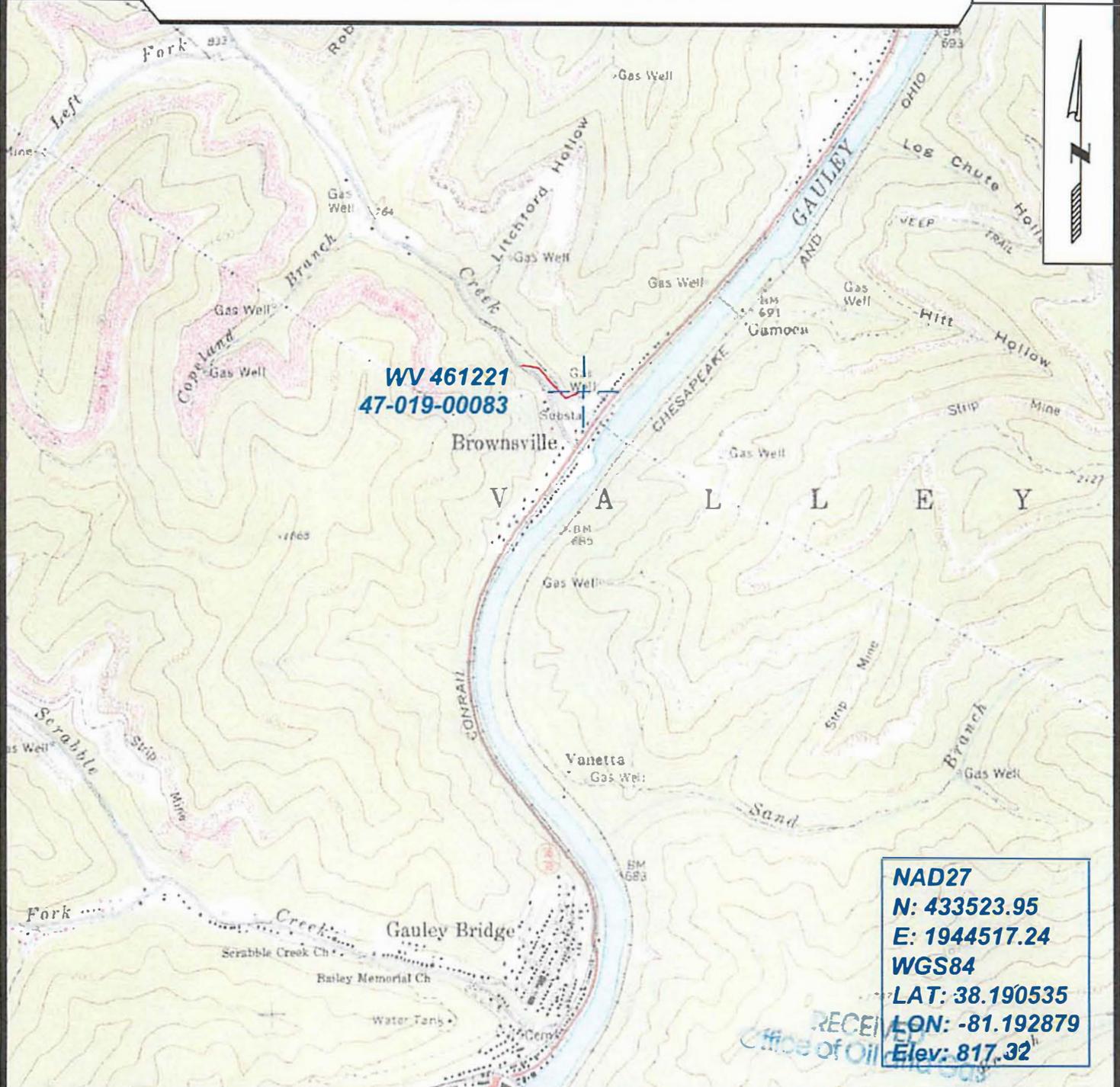
Promoting a healthy environment.

1900083P

Topo Quad: Gauley Bridge 7.5' Scale: 1" = 2000'
 County: Fayette Date: February 26, 2013
 District: Valley Project No: 57-05-00-07

WV 461221 Brown 9763

Topo



WV 461221
47-019-00083

NAD27
N: 433523.95
E: 1944517.24
WGS84
LAT: 38.190535
LONG: -81.192879
Elev: 817.32'



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 P.O. BOX 438
 BIRCH RIVER, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR: ADD 1 5 2012
EQT Production Co. Inc.
 1710 Pennsylvania Ave.
 Charleston, WV 25302



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. Hulliman, Cabinet Secretary
www.dep.wv.gov

May 03, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1900145, issued to EQT PRODUCTION COMPANY, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: EG&F 39 (039740)
Farm Name: EASTERN GAS & FUEL
API Well Number: 47- 1900145
Permit Type: Plugging
Date Issued: 05/03/2013

Promoting a healthy environment.

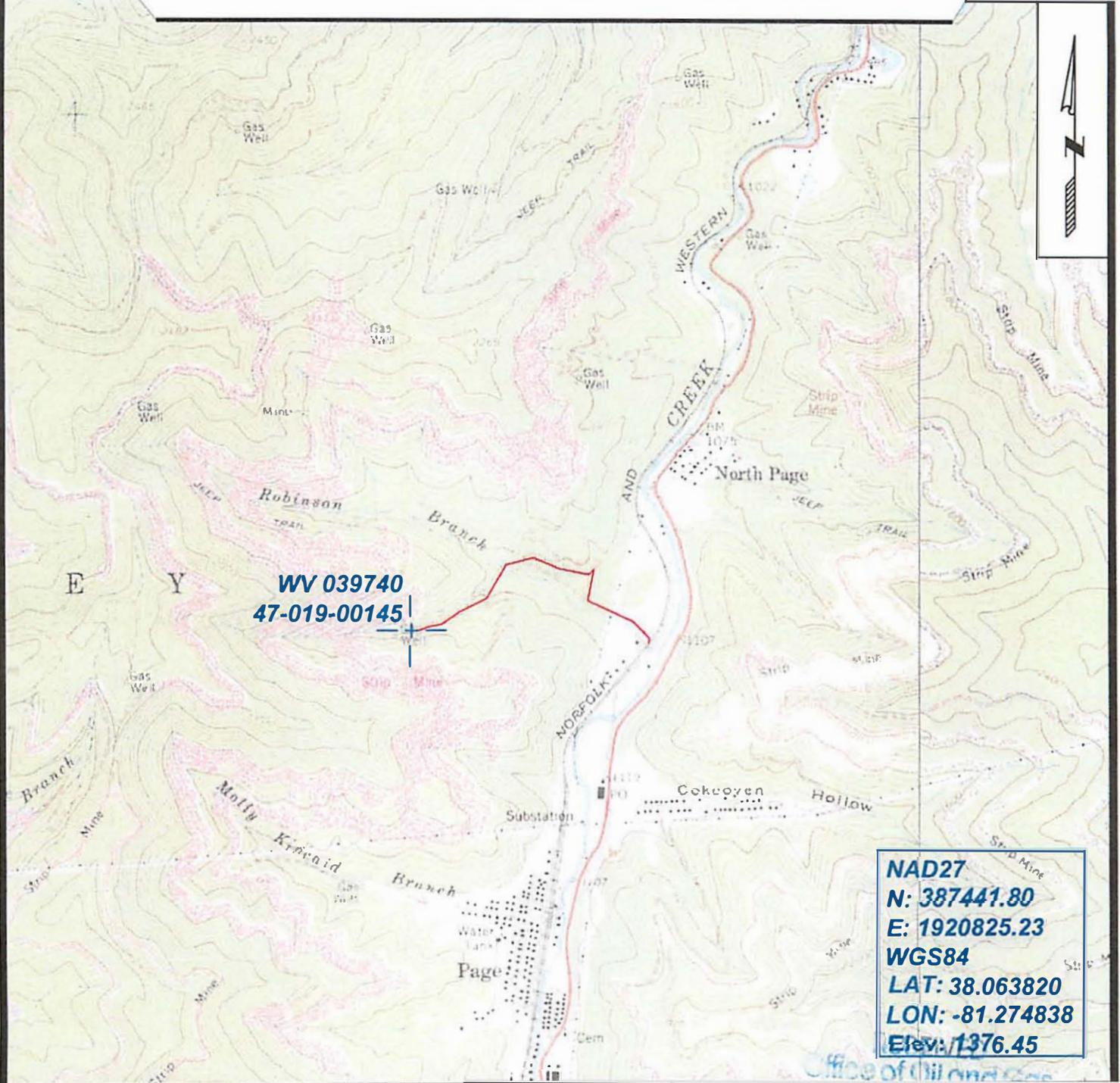
Topo Quad: Powellton 7.5' Scale: 1" = 2000'

County: Fayette Date: March 22, 2013

District: Valley Project No: 57-05-00-07

WV 039740 EG&F 39 47-019-00145

Topo



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 P.O. BOX 438
 BIRCH RIVER, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:
EQT Production Co. Inc.
 1710 Pennsylvania Ave.
 Charleston, WV 25302
 APR 15 2013
 Environmental Protection

1906145 P

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-019-00145 WELL NO.: WV 039740 EG&F 39

FARM NAME: Eastern Gas & Fuel

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Fayette DISTRICT: Valley

QUADRANGLE: Powellton 7.5'

SURFACE OWNER: Pardee Minerals LLC

ROYALTY OWNER: Pardee Minerals LLC

UTM GPS NORTHING: 4212932

UTM GPS EASTING: 475891 GPS ELEVATION: 419 m (1376 ft)

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS _____: Post Processed Differential _____
Real-Time Differential _____

Mapping Grade GPS X: Post Processed Differential X
Real-Time Differential _____

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Ben H. Siefert
Signature

P.S. 2092
Title

3-22-13
Date

RECEIVED
Office of Oil and Gas

APR 10 2013

Department of
Environmental Protection



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

May 03, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1900150, issued to EQT PRODUCTION COMPANY, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: EG&F #41 (040320)
Farm Name: PARDEE MINERALS LLC
API Well Number: 47-1900150
Permit Type: Plugging
Date Issued: 05/03/2013

Promoting a healthy environment.

1900150P

Topo Quad: Powellton 7.5'

Scale: 1" = 2000'

County: Fayette

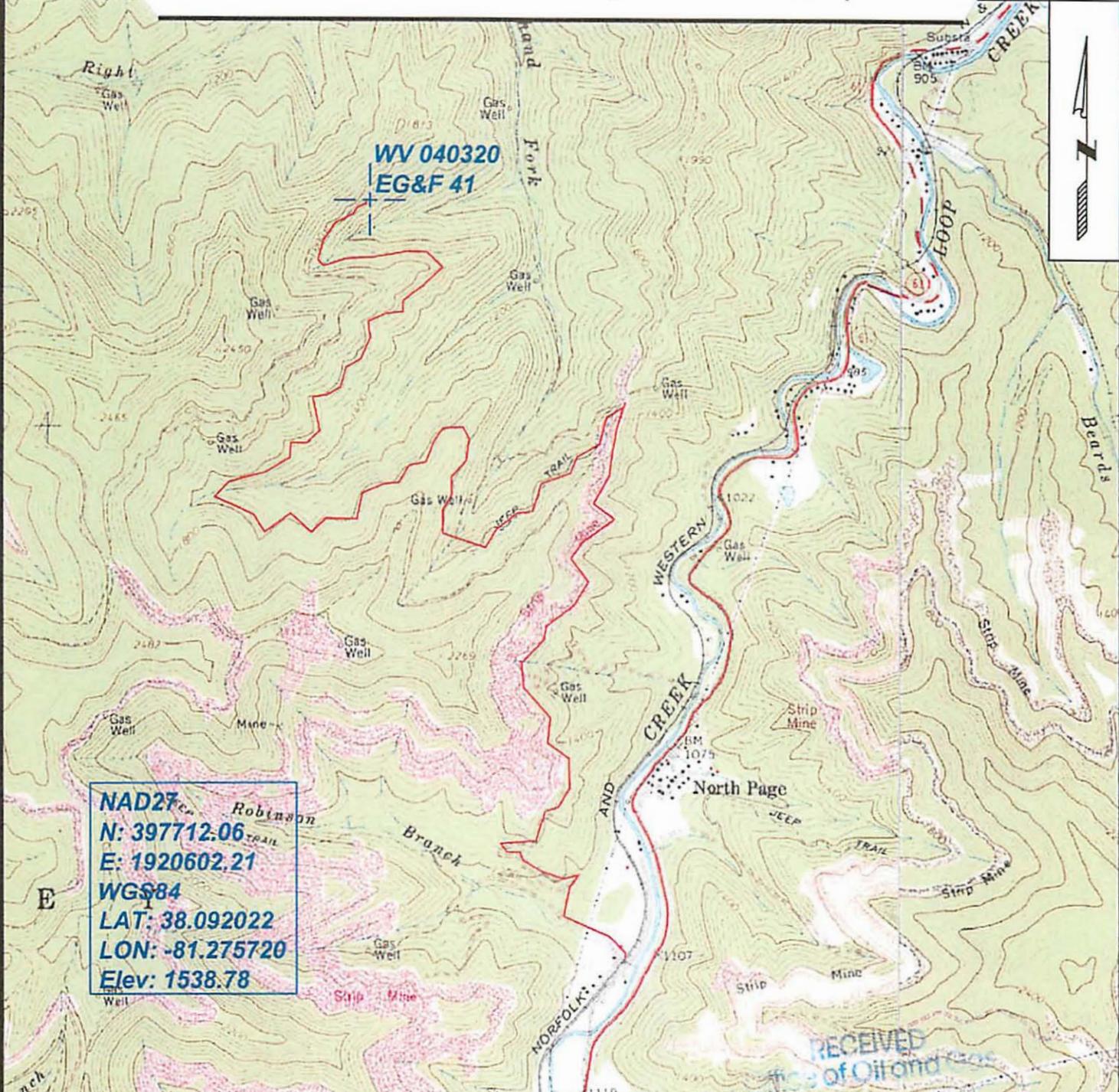
Date: March 22, 2013

District: Valley

Project No: 57-05-00-07

WV 040320 EF&G 41 (47-019-00150)

Topo



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 P.O. BOX 438
 BIRCH RIVER, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:
EQT Production Co. Inc.
 1710 Pennsylvania Ave.
 Charleston, WV 25302

APR 13 2013
 ELEV: 15110

1900150A

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-019-00150 WELL NO.: WV 040320 EG&F 41

FARM NAME: Eastern Gas & Fuel

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Fayette DISTRICT: Valley

QUADRANGLE: Powellton 7.5'

SURFACE OWNER: Pardee Minerals LLC

ROYALTY OWNER: Pardee Minerals LLC

UTM GPS NORTHING: 4216061

UTM GPS EASTING: 475823 GPS ELEVATION: 469 m (1539 ft)

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:
Survey grade GPS : Post Processed Differential
Real-Time Differential
Mapping Grade GPS : Post Processed Differential
Real-Time Differential

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

RECEIVED
Office of Oil and Gas
April 16 2013
Department of
Environmental Protection

Ben Supleta
Signature

P.S. 2092
Title

4-4-2013
Date



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

May 03, 2013

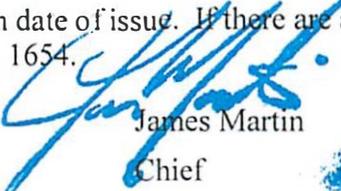
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1900943, issued to EQT PRODUCTION COMPANY, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.


James Martin
Chief

Operator's Well No: CHRISTIAN COLLIERY 508671

Farm Name: CHRISTIAN COLLIERY CO.

API Well Number: 47-1900943

Permit Type: Plugging

Date Issued: 05/03/2013

Promoting a healthy environment.

1900943 P

Topo Quad: Powellton 7.5'

Scale: 1" = 2000'

County: Fayette

Date: March 5, 2013

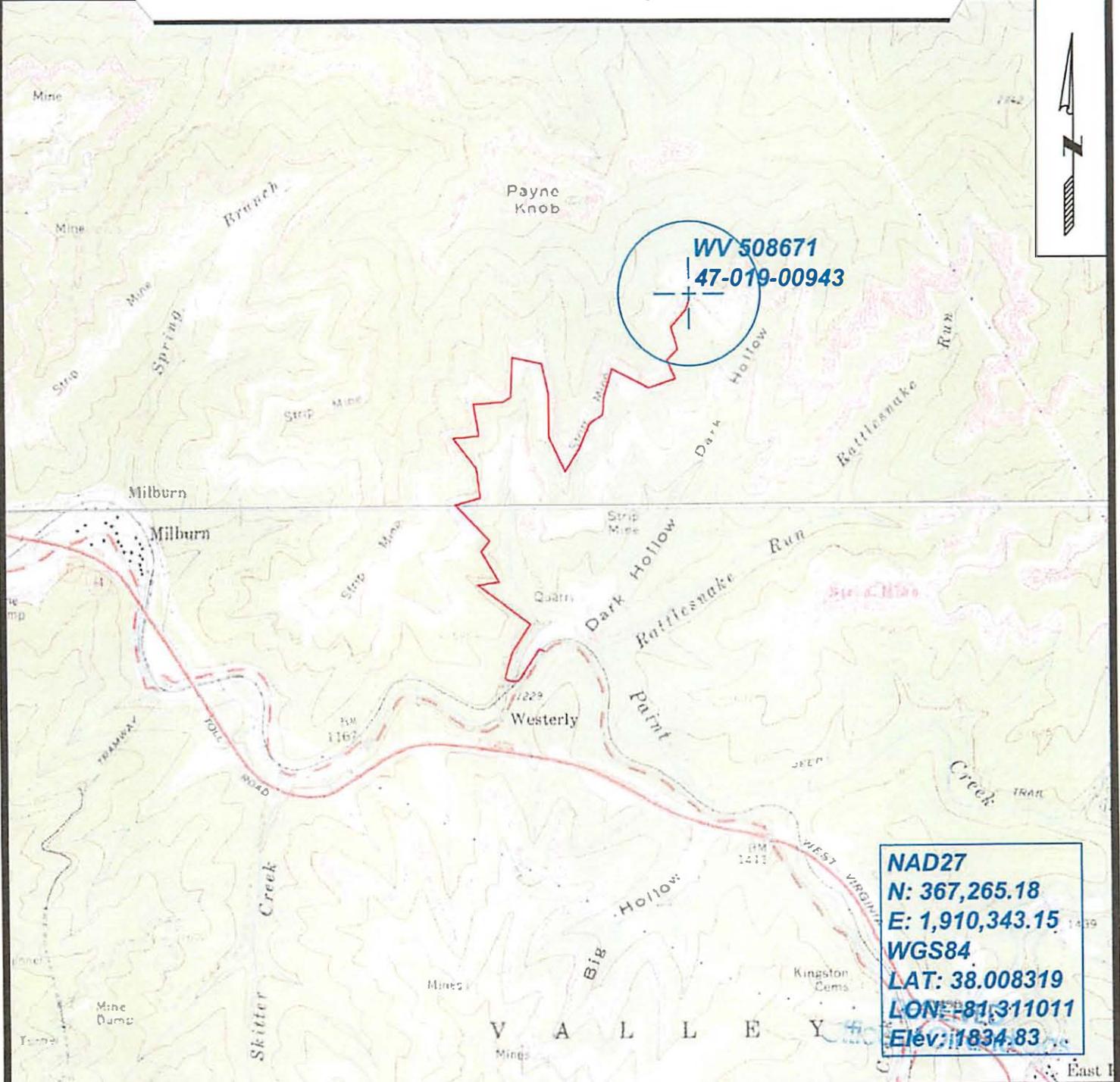
District: Valley

Project No: 57-05-00-07

Water

WV 508671 Christian Colliery 47-019-00943

Topo



NAD27
N: 367,265.18
E: 1,910,343.15
WGS84
LAT: 38.008319
LONG: -81.311011
Elev: 1834.83



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 P.O. BOX 438
 BIRCH RIVER, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR: **APR 15 2013**
EQT Production Co. Inc.
 1710 Pennsylvania Ave.
 Charleston, WV 25302

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-019-00943 WELL NO.: W 508671 Christian Colliery

FARM NAME: Christian Colliery

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Fayette DISTRICT: Valley

QUADRANGLE: Powellton 7.5'

SURFACE OWNER: Christian Colliery Company

ROYALTY OWNER: Christian Colliery Company

UTM GPS NORTHING: 4206784

UTM GPS EASTING: 472697 GPS ELEVATION: 559 m (1835 ft)

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential
Real-Time Differential

Mapping Grade GPS X: Post Processed Differential X
Real-Time Differential

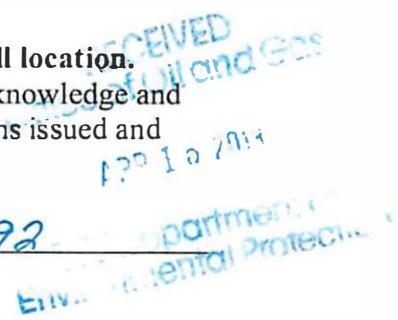
4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Ben A. Singletor
Signature

P.S. 2092
Title

3-8-13
Date





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

May 03, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8703411, issued to TRIAD HUNTER, 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.

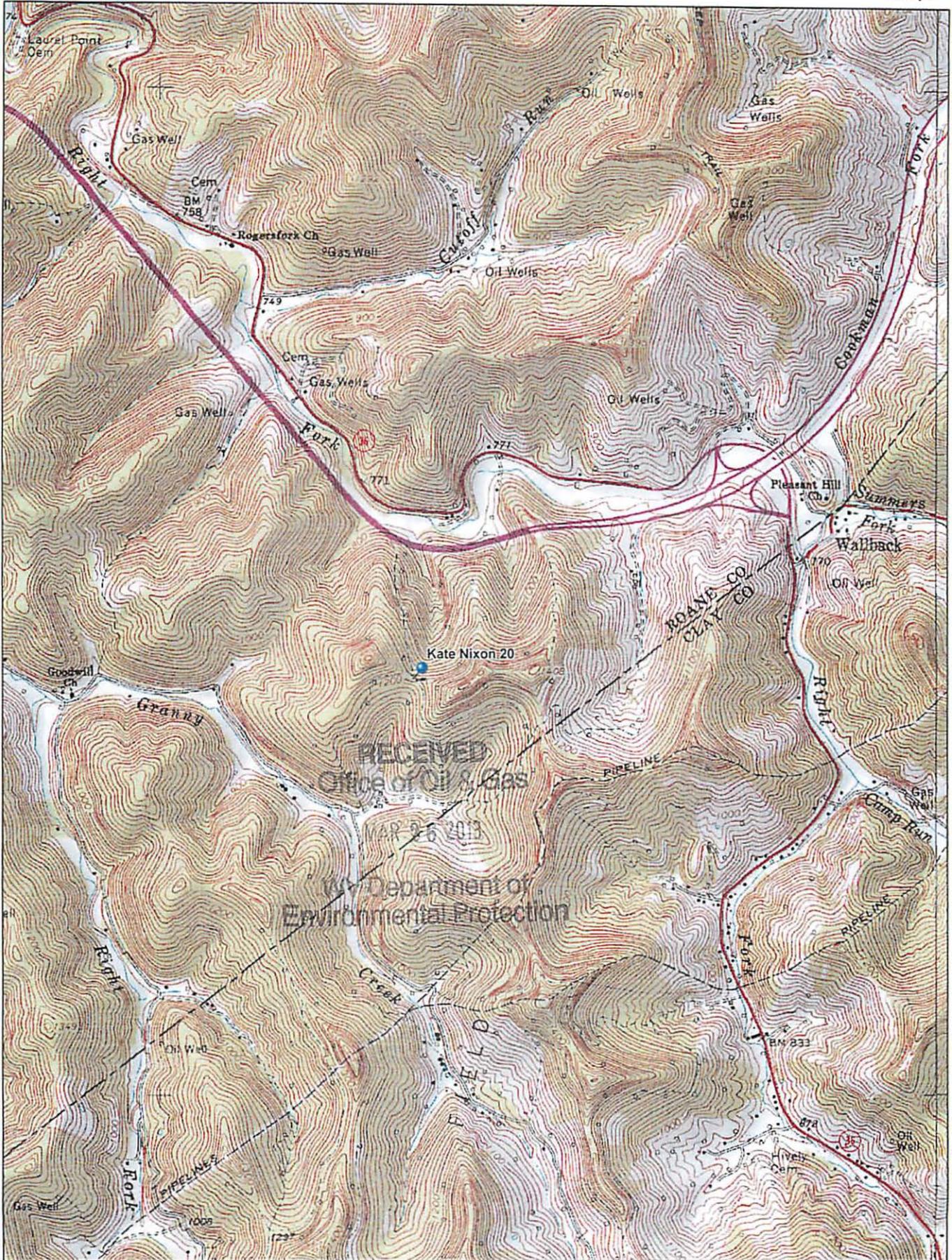
Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 20
Farm Name: WV DIVISION OF NATURAL RES
API Well Number: 47-8703411
Permit Type: Plugging
Date Issued: 05/03/2013

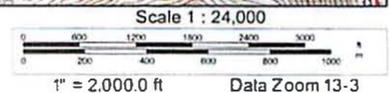
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www.delorme.com



WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-87-3411 WELL NO.: 20

FARM NAME: Kate Nixon

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Roane DISTRICT: Geary

QUADRANGLE: Newton

SURFACE OWNER: Division of Natural Resources

ROYALTY OWNER: Please see attached sheets

UTM GPS NORTHING: 4267856.58

UTM GPS EASTING: 486677.37 GPS ELEVATION: 1187'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Signature

SR VP. APPALACHIAN OP.

Title

2/26/2013

Date



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

May 03, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8703398, issued to TRIAD HUNTER, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

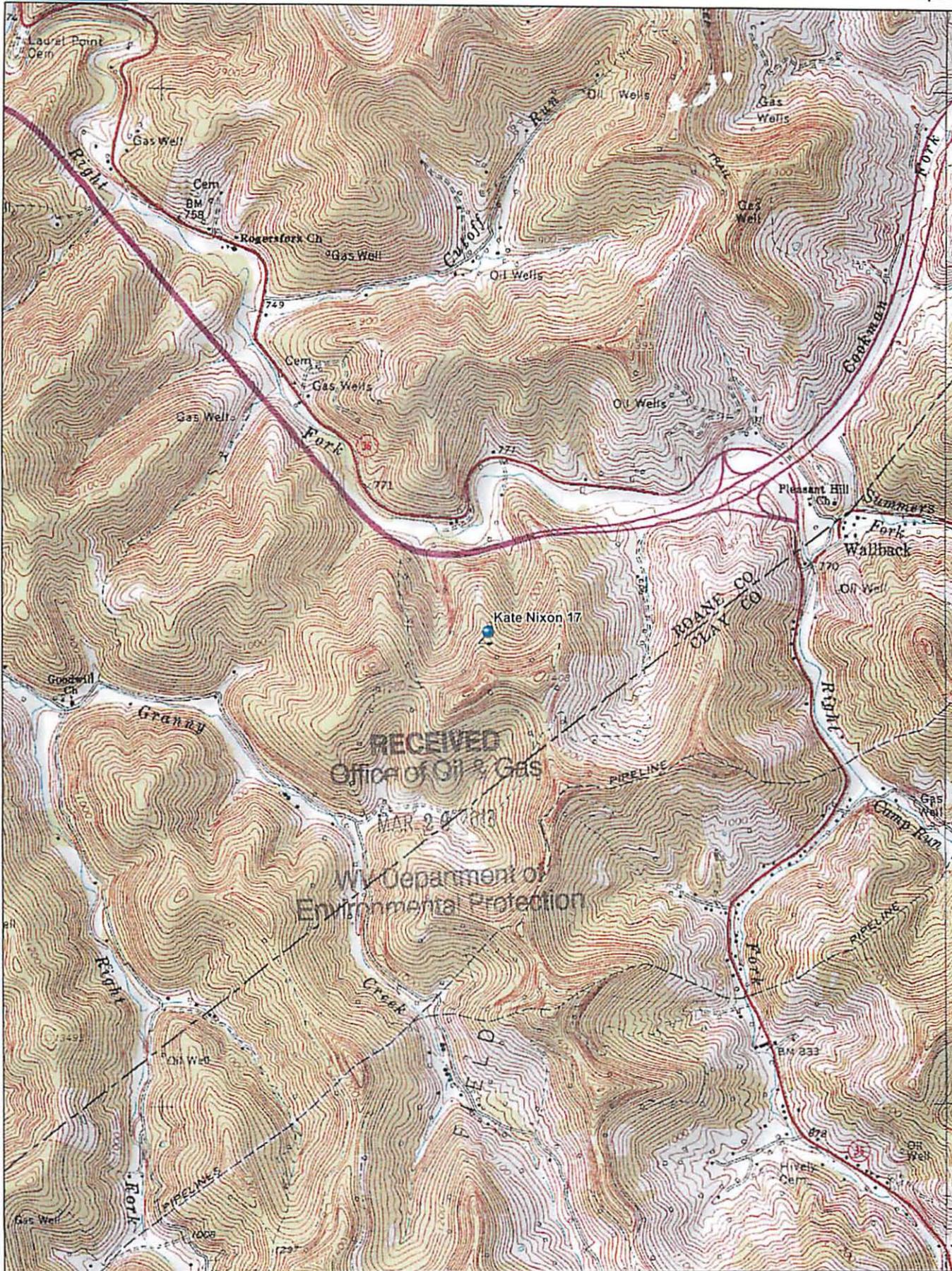
This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 17
Farm Name: WV DIVISION OF NATURAL RES
API Well Number: 47-8703398
Permit Type: Plugging
Date Issued: 05/03/2013

Promoting a healthy environment.

8703398P



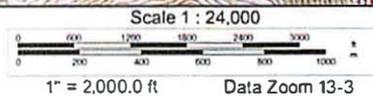
RECEIVED
 Office of Oil & Gas
 MAR 20 2013

WV Department of
 Environmental Protection

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www.delorme.com



Data Zoom 13-3

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-87-3398 WELL NO.: 17

FARM NAME: Kate Nixon

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Roane DISTRICT: Geary

QUADRANGLE: Newton

SURFACE OWNER: Division of Natural Resources

ROYALTY OWNER: Please see attached sheets

UTM GPS NORTHING: 4268049.29

UTM GPS EASTING: 486967.31 GPS ELEVATION: 1197'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Signature

Sp. Vt. Application OP.

Title

2/26/2013

Date



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

May 03, 2013

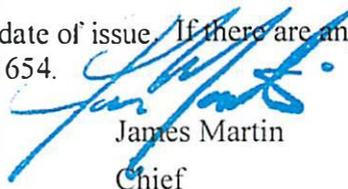
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8703146, issued to TRIAD HUNTER, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

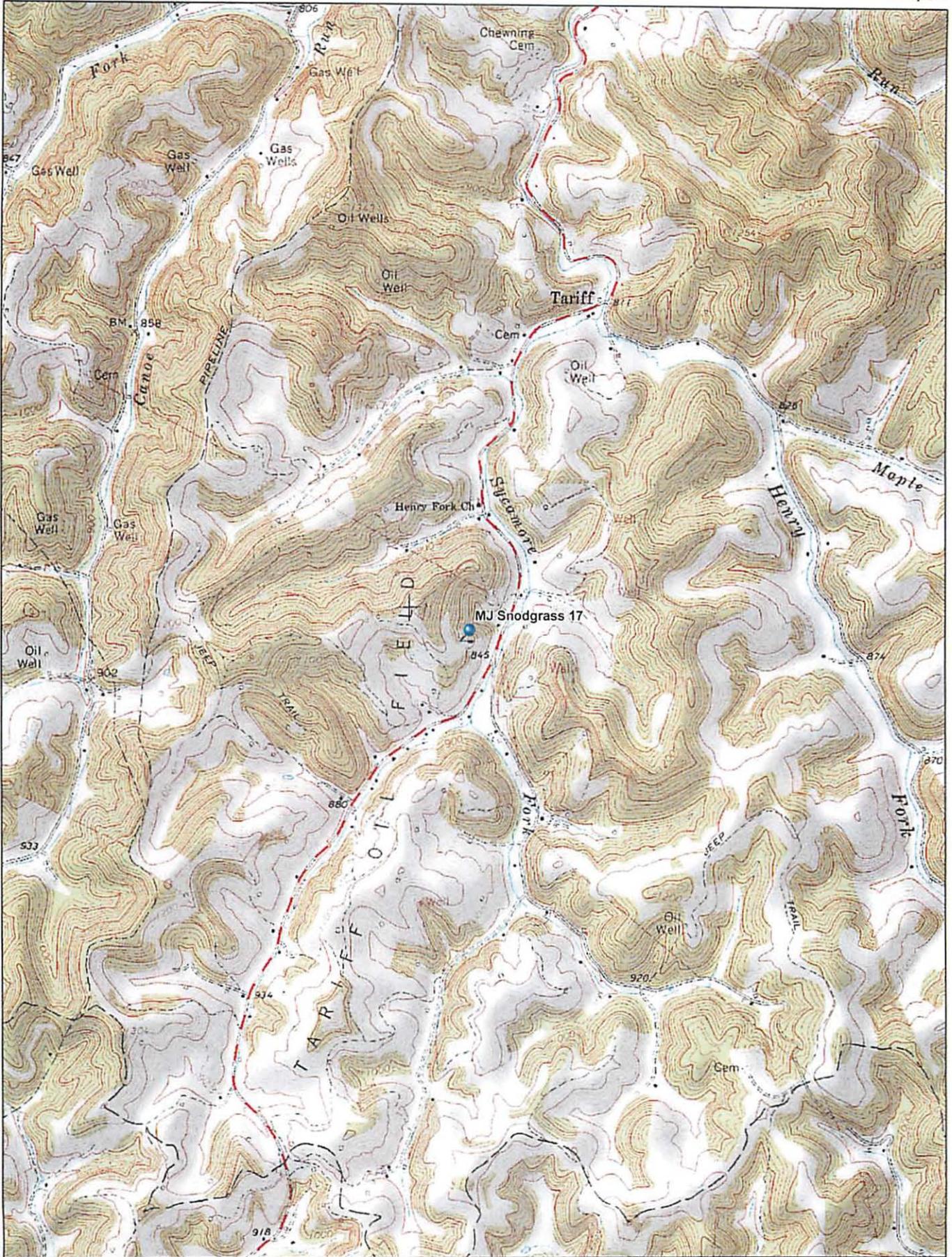
This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: 17
Farm Name: TRUMAN, RENEE
API Well Number: 47-8703146
Permit Type: Plugging
Date Issued: 05/03/2013

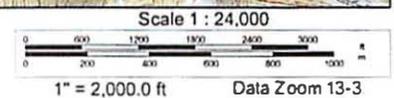
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www.delorme.com



8703146 P

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-87-3146 WELL NO.: 17

FARM NAME: MJ Snodgrass

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Roane DISTRICT: Smithfield

QUADRANGLE: Tariff

SURFACE OWNER: Renee Truman

ROYALTY OWNER: Please see attached sheets

UTM GPS NORTHING: 4279730.89

UTM GPS EASTING: 482125.87 GPS ELEVATION: 1026'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Ben Smeltzer
Signature

Geologist
Title

4/3/13
Date



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

May 03, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8702102, issued to TRIAD HUNTER, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 185
Farm Name: WEILAND, JOE
API Well Number: 47-8702102
Permit Type: Plugging
Date Issued: 05/03/2013

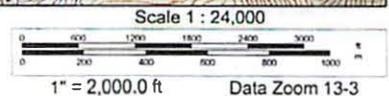
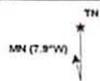
Promoting a healthy environment.



Data use subject to license.

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www.delorme.com



WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-87-2102 WELL NO.: 185
 FARM NAME: OD Stockley
 RESPONSIBLE PARTY NAME: Triad Hunter, LLC
 COUNTY: Roane DISTRICT: Geary
 QUADRANGLE: Newton
 SURFACE OWNER: Joe Weiland
 ROYALTY OWNER: Please see attached sheets
 UTM GPS NORTHING: 4267487
 UTM GPS EASTING: 486290 GPS ELEVATION: 1112'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Don Smith Geologist 4/3/13
 Signature Title Date



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

May 03, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8702075, issued to TRIAD HUNTER, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 149
Farm Name: TRIAD HUNTER, LLC
API Well Number: 47-8702075
Permit Type: Plugging
Date Issued: 05/03/2013

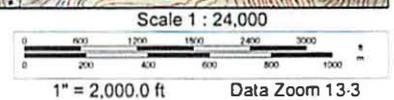
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www.delorme.com



WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-87-2075 WELL NO.: 149

FARM NAME: O.D. Stockley

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Roane DISTRICT: Geary

QUADRANGLE: Newton

SURFACE OWNER: Triad Hunter, LLC

ROYALTY OWNER: Please see attached sheets

UTM GPS NORTHING: 4266906.95

UTM GPS EASTING: 486289.43 GPS ELEVATION: 997'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Ben Smeltzer
Signature

Geologist
Title

4/3/13
Date

ISLAND CREEK COAL COMPANY LEASE 60,000 ACRES± WELL NO. WV 511834

HEARTLAND FORESTLAND FUND
24,418.08 AC±
(SURFACE)

HEARTLAND FORESTLAND FUND
24,418.08 AC±
(SURFACE)

EXISTING WELL
A.P.I. #47-045-1587
STATE PLANE COORDINATES
(SOUTH ZONE)

N. 307,422
E. 1,681,592

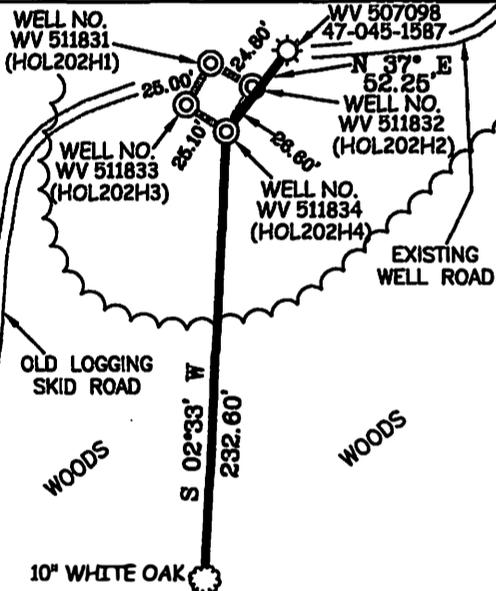
LAT=(N) 37.83908
LONG=(W) 82.10261

WELL NO. WV 511834
STATE PLANE COORDINATES
(SOUTH ZONE)

N. 307,377
E. 1,681,566

LAT=(N) 37.83895
LONG=(W) 82.10270

REFERENCES



TO CO. RT. 9/2

HEARTLAND FORESTLAND FUND
24,418.08 AC±
(SURFACE)

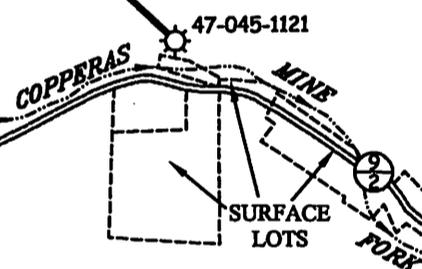
WELL NO. WV 511834
BOTTOM HOLE
STATE PLANE COORDINATES
(SOUTH ZONE)

N. 304,893
E. 1,685,905

LAT=(N) 37.83227
LONG=(W) 82.08758

NOTES ON SURVEY

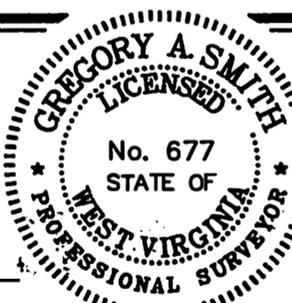
1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 02/12/09.
3. LEASE BOUNDARY DOES NOT APPEAR WITHIN THE SCOPE OF THIS PLAT.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF LOGAN COUNTY IN JULY, 2008.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).
6. ORIGINAL PLAT DATED 03/18/09 REVISED 12/10/09 TO EXTEND HORIZONTAL LEG & CHANGE BOTTOM HOLE COORDINATES, ETC.



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 DECEMBER 10, 20 09

OPERATORS WELL NO. WV 511834

API WELL NO. 47-045-02247H
STATE: WV COUNTY: LOGAN PERMIT: REVISOR

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 3890P511834R (276-08)
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 1,000'

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 1,071' WATERSHED CABIN BRANCH OF COPPERAS MINE FORK OF ISLAND CREEK

DISTRICT ISLAND CREEK COUNTY LOGAN QUADRANGLE HOLDEN 7.5'

SURFACE OWNER HEARTWOOD FORESTLAND FUND ACREAGE 24,418.08±

ROYALTY OWNER ISLAND CREEK CORPORATION LEASE ACREAGE 60,000±

PROPOSED WORK: LEASE NO. 080662

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 LOWER HURON
ESTIMATED DEPTH 4,680' (TOTAL VERTICAL DEPTH)

WELL OPERATOR EQT PRODUCTION COMPANY
ADDRESS 1710 PENNSYLVANIA AVENUE
CHARLESTON, WV 25302

DESIGNATED AGENT REX C. RAY
ADDRESS 1710 PENNSYLVANIA AVENUE
CHARLESTON, WV 25302

COUNTY NAME
PERMIT

ELK CREEK COAL LAND COMPANY LEASE

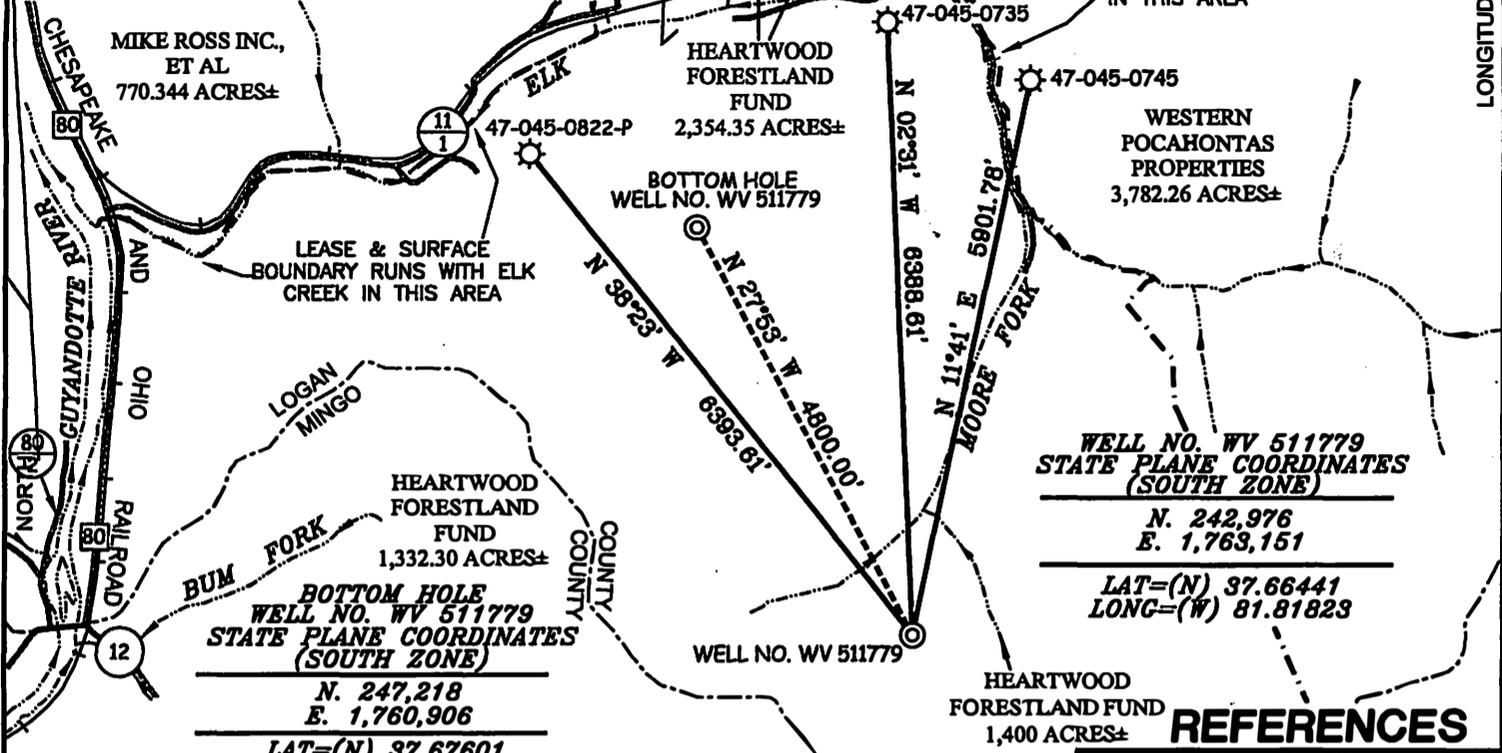
7,600 ACRES±

WELL NO. WV 511779

7,710'

LATITUDE 37° 40' 00"

LONGITUDE 81° 47' 30"



LEASE & SURFACE BOUNDARY RUNS WITH ELK CREEK AND MOORE FORK IN THIS AREA

LEASE & SURFACE BOUNDARY RUNS WITH ELK CREEK IN THIS AREA

WELL NO. WV 511779 STATE PLANE COORDINATES (SOUTH ZONE)

N. 242,976
E. 1,763,151

LAT=(N) 37.66441
LONG=(W) 81.81823

WELL NO. WV 511779 STATE PLANE COORDINATES (SOUTH ZONE)

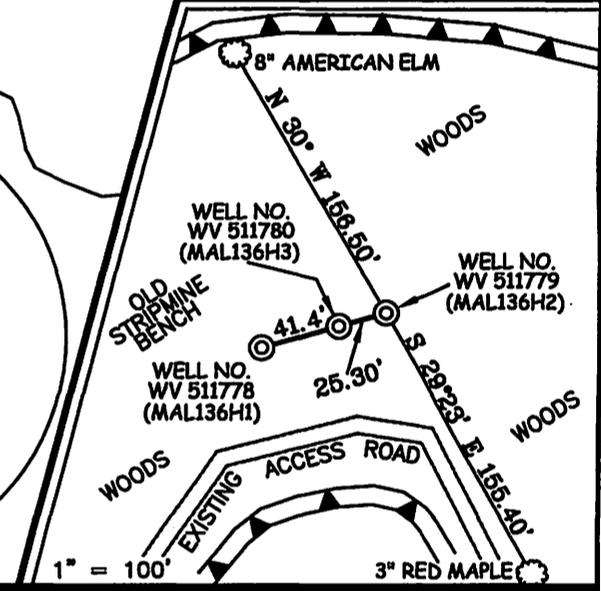
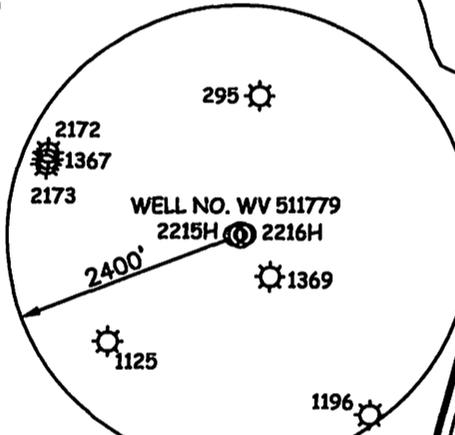
N. 247,218
E. 1,760,906
LAT=(N) 37.67601
LONG=(W) 81.82611

HEARTWOOD FORESTLAND FUND 1,400 ACRES±

REFERENCES

NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 08/13/08.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 178 PAGE 320.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF LOGAN COUNTY IN JULY, 2008.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).
6. ORIGINAL PLAT DATED 10/27/09 REVISED 12/16/09 TO ROTATE, EXTEND HORIZONTAL LEG & CHANGE BOTTOM HOLE COORDINATES ETC.



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. *Gregory A. Smith*
677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE DECEMBER 16, 20 09

OPERATORS WELL NO. WV 511779

API WELL NO. 47-45-023324

CANCELLED

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 3944P511779R (265-65 & 289-42)
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 2,000'

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 1,662' WATERSHED MOORE FORK OF ELK CREEK

DISTRICT TRIADELPHIA COUNTY LOGAN QUADRANGLE MALLORY 7.5'

SURFACE OWNER HEARTWOOD FORESTLAND FUND ACREAGE 1,400±

ROYALTY OWNER ISLAND CREEK COAL COMPANY LEASE ACREAGE 7,600±

PROPOSED WORK: LEASE NO. 005658

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD

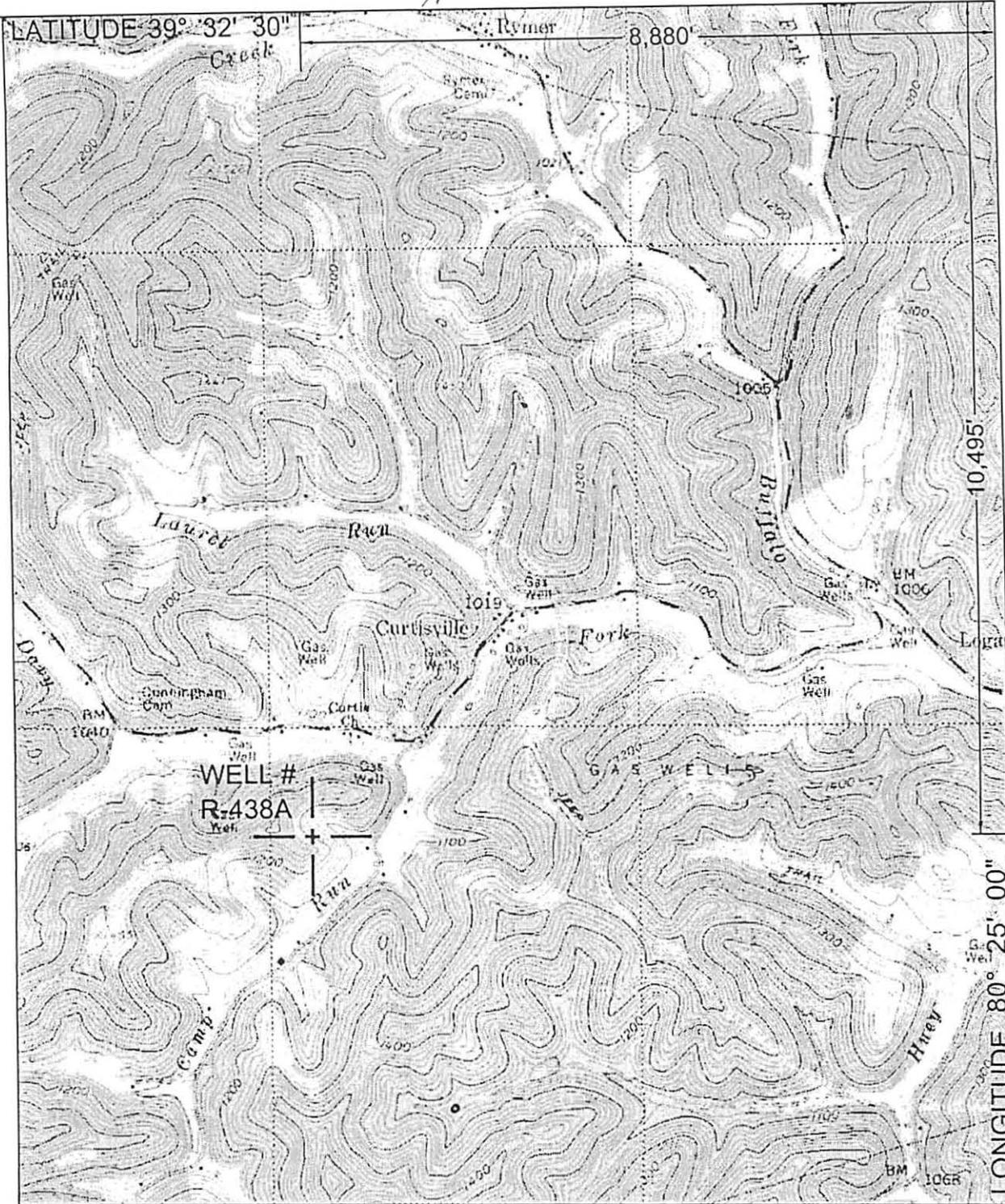
FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION BEREA

ESTIMATED DEPTH 4,060' (TOTAL VERTICAL DEPTH)

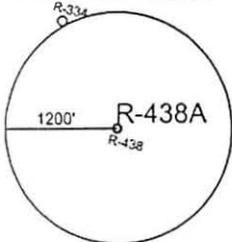
WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY
ADDRESS 1710 PENNSYLVANIA AVENUE ADDRESS 1710 PENNSYLVANIA AVENUE
CHARLESTON, WV 25302 CHARLESTON, WV 25302

COUNTY NAME PERMIT



NORTH

SURROUNDING WELLS WITHIN 1200' RADIUS

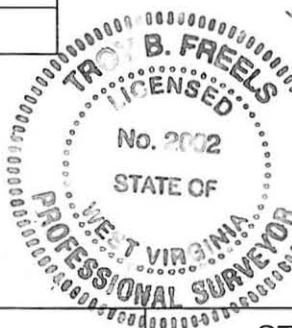


UTM ZONE 17 COORDINATES	TRUE LATITUDE/LONGITUDE
NORTHING 4,373,833.4 METERS	39° 30' 46.0" N
EASTING 547,474.5 METERS	80° 26' 52.6" W

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.

P.S. 2002

MINIMUM DEGREE OF ACCURACY: 1/2500
 FILE NO.: GLOVERGAP8.DWG
 SCALE: 1"=2000'
 PROVEN SOURCE OF ELEVATION: GPS METADATA OR COMPANY NETWORK TIED INTO U.S.G.S.



No well found on location

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

DATE APRIL 24, 20 06

OPERATORS WELL NO. R-438A

API WELL NO. 47 - 49 - 01746-P
 STATE COUNTY PERMIT

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

CANCELLED



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

LOCATION: ELEVATION: 1,220 90 WATERSHED: CAMP RUN OF OWEN DAVY FORK OF BUFFALO CREEK

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

SURFACE OWNER: CHARLES R. & WANDA L. RUSSELL ACREAGE: 35.52± ACRES

ROYALTY OWNER: LEASE ACREAGE:

PROPOSED WORK: LEASE NO.:

DRILL: CONVERT: DRILL DEEPER: REDRILL: FRACTURE OR STIMULATE: PLUG OFF OLD:

FORMATION: PERFORATE NEW FORMATION: PLUG AND ABANDON: X CLEAN OUT AND REPLUG: OTHER:

PHYSICAL CHANGE IN WELL (SPECIFY): TARGET FORMATION: NONE

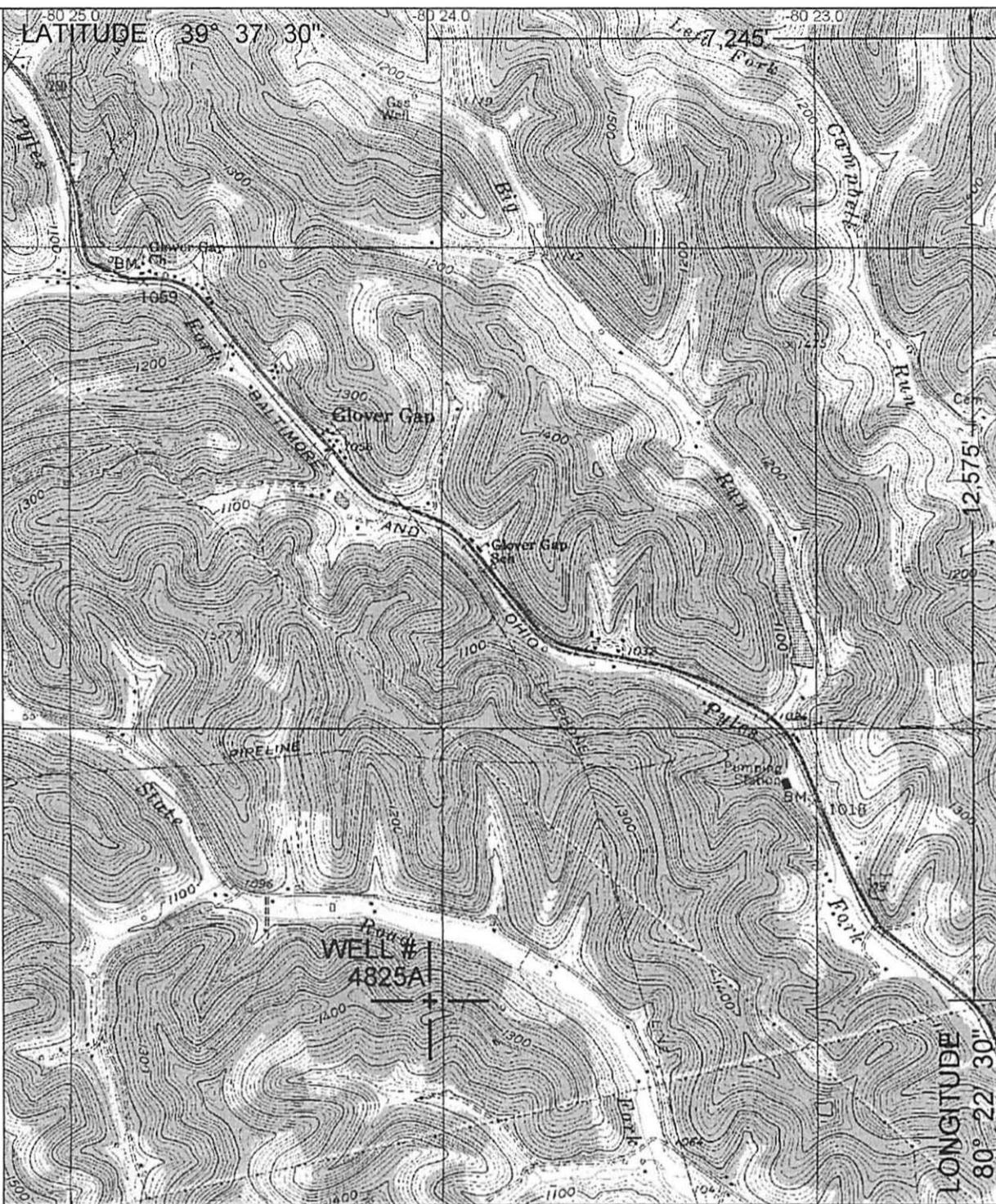
ESTIMATED DEPTH:

WELL OPERATOR: CONSOLIDATION COAL COMPANY DESIGNATED AGENT: ROGER E. DUCKWORTH

ADDRESS: 1 BRIDGE ST., MONONGAH, WV 26554 ADDRESS: 1 BRIDGE ST.,

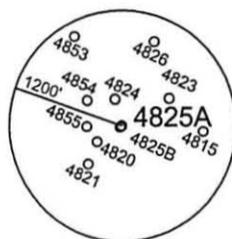
COUNTY NAME

PERMIT



NORTH

SURROUNDING WELLS WITHIN 1200' RADIUS



UTM Z17 NAD83
 NORTHING 4,382,468.0 METERS
 EASTING 551,481.7 METERS

LATITUDE/LONGITUDE NAD83
 39° 35' 25.3" N
 80° 24' 02.4" W

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.

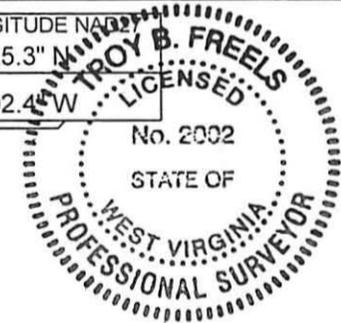
P.S. 2002 *Troy B. Freels*

MINIMUM DEGREE OF ACCURACY: 1/2500
 FILE NO.: GLOVERGAP3.DWG
 PROVEN SOURCE OF ELEVATION: COMPANY NETWORK TIED INTO U.S.G.S.
 SCALE: 1"=2000'

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

LOCATION: ELEVATION: 1441.10' WATERSHED: STATE ROAD FORK OF PYLES FORK OF BUFFALO CREEK
 DISTRICT: MANNINGTON COUNTY: MARION QUADRANGLE: GLOVER GAP, WV 7.5'
 SURFACE OWNER: JOSEPH & DORIS GREBOUSKI ACREAGE: 25.75± ACRES
 ROYALTY OWNER: LEASE ACREAGE: _____
 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: NONE
 ESTIMATED DEPTH: _____

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



There was not a well on this site.

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE JULY 23, 20 08
 OPERATORS WELL NO. 4825A
 API WELL NO. 47 - 49 - 01974P
 STATE COUNTY PERMIT

CANCELLED

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



COUNTY NAME PERMIT