



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

August 24, 2012

WELL WORK PERMIT

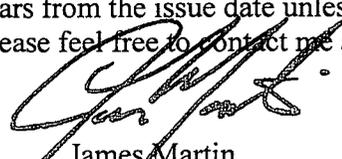
Vertical Well

This permit, API Well Number: 47-8509995, issued to MURVIN & MEIER OIL 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.

Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

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

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



James Martin
Chief

Operator's Well No: COX M2
Farm Name: DIFILIPPO, DENNIS N. AND DEB.
API Well Number: 47-8509995
Permit Type: Vertical Well
Date Issued: 08/24/2012

Promoting a healthy environment.

COX LEASE

25 of 132 ACRES±

WELL NO. M2

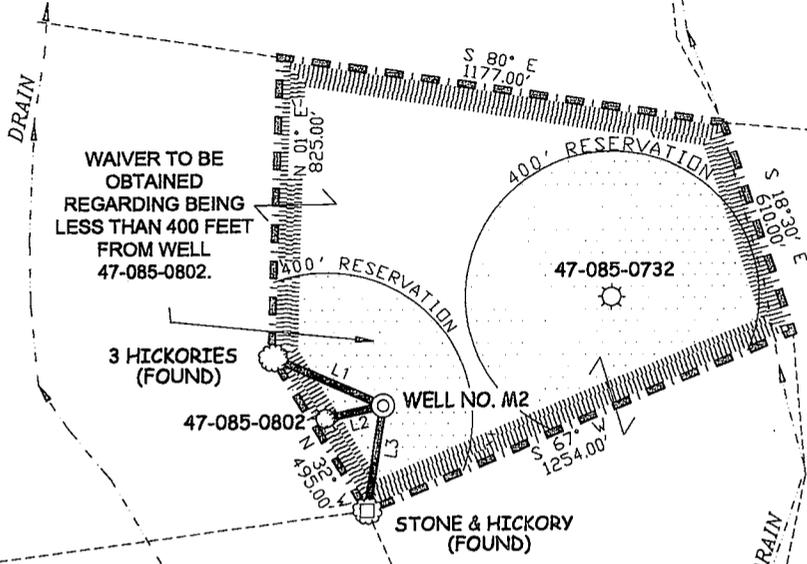
BBGJ, INC.
150 ACRES±

DONNA L. VALENTINE
167.5 ACRES±

DENNIS N. & DEBRA L. DIFILIPPO
117.72 ACRES±

WAIVER TO BE OBTAINED REGARDING BEING LESS THAN 400 FEET FROM WELL 47-085-0802.

DENNIS N. & DEBRA L. DIFILIPPO
50 ACRES±



COX M2 WELL TIES

LINE	BEARING	DISTANCE
L1	N 66°23' W	325.01'
L2	S 77°22' W	164.20'
L3	S 08°37' W	288.04'

WELL NO. M2 STATE PLANE COORDINATES (NAD 27)
(N) 196,683
(E) 1,560,702

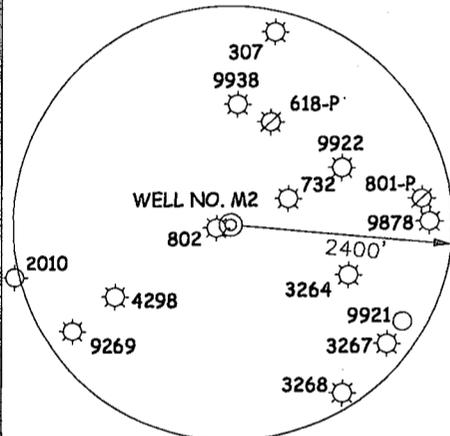
WELL NO. M2 LAT/LONG COORDINATES(NAD27)	WELL NO. M2 UTM COORDINATES(NAD 83)
(N) 39°01'46.7"	(N) 4,320,075
(W) 81°02'47.0"	(E) 495,999

JOHN E. FREDRICK
80 ACRES±

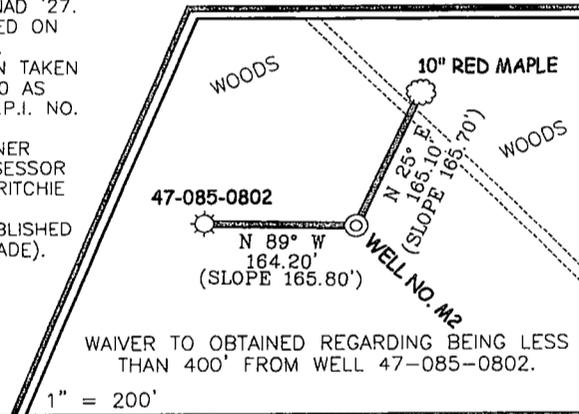
P/O DENNIS N. & DEBRA L. DIFILIPPO
117.72 ACRES±

NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 12-20-11.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A PLAT DATED 05/09/1940 AS PREPARED BY B.F. RINEHART FOR A.P.I. NO. 47-085-0802.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF RITCHIE COUNTY IN JULY, 2011.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).



REFERENCES



WAIVER TO OBTAINED REGARDING BEING LESS THAN 400' FROM WELL 47-085-0802.

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

DATE DECEMBER 22, 20 11

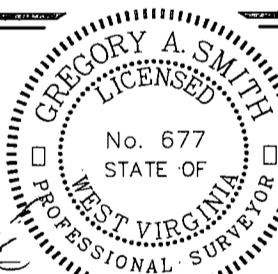
OPERATORS WELL NO. COX M2

API WELL NO. 47 - 085 - 09995
STATE COUNTY PERMIT

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



MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 7398PM2 (396-32)
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 500'

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



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

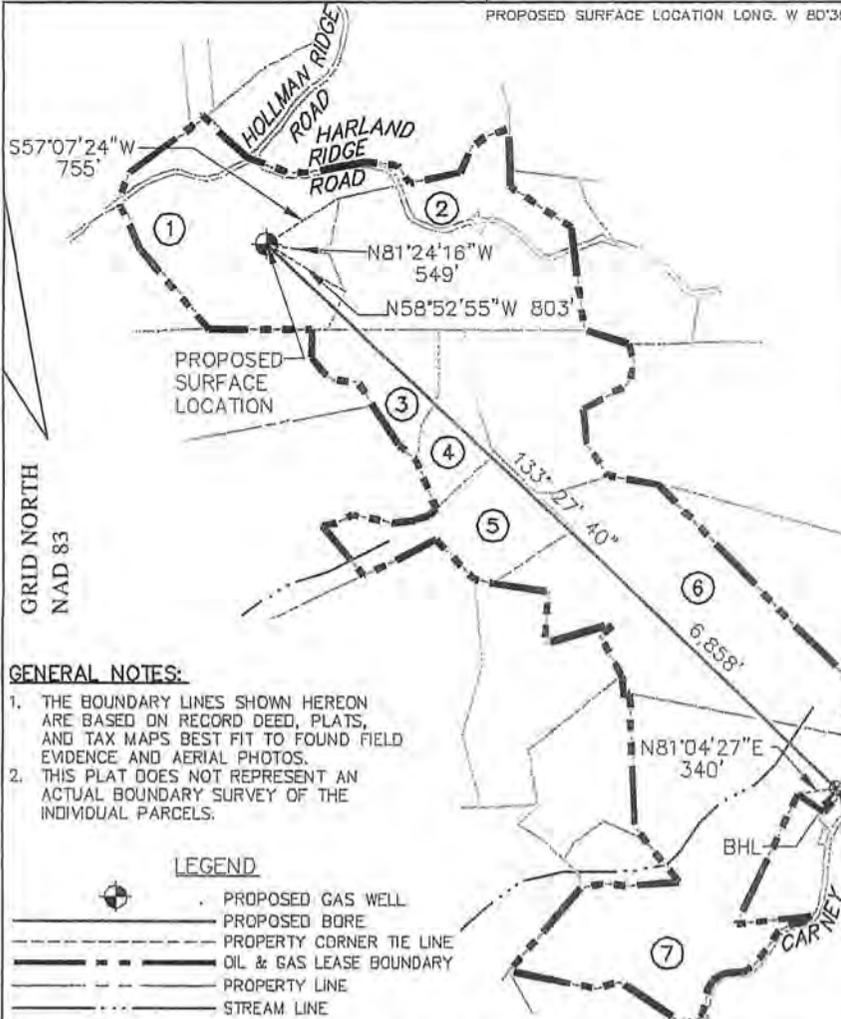
LOCATION: ELEVATION 1,160' WATERSHED LEATHERBARK CREEK
DISTRICT MURPHY COUNTY RITCHIE QUADRANGLE SMITHVILLE 7.5'

SURFACE OWNER DENNIS N. & DEBRA L. DIFILIPPO ACREAGE 117.72±
ROYALTY OWNER W.E. COX, ET AL LEASE ACREAGE 25 of 132±

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___
PHYSICAL CHANGE IN WELL (SPECIFY) ___ TARGET FORMATION RHINESTREET
ESTIMATED DEPTH 6,000'

WELL OPERATOR MURVIN & MEIER OIL COMPANY DESIGNATED AGENT P. NATHAN BOWLES, JR.
ADDRESS P.O. BOX 396 ADDRESS P.O. BOX 1237
OLNEY, IL 62450 CHARLESTON, WV 25325

COUNTY NAME
PERMIT



TOP HOLE (NAD 83) N) 428,084.8' E) 1,642,190.1' LAT.) 39°40'10.3" LONG.) 80°39'33.3" DEC. LAT.) 39.669536° DEC. LONG.) 80.659247°	BOTTOM HOLE (NAD 83) N) 423,367.4' E) 1,647,167.9' LAT.) 39°39'24.3" LONG.) 80°38'28.9" DEC. LAT.) 39.656761° DEC. LONG.) 80.641351°
TOP HOLE (NAD 27) N) 428,048.0' E) 1,673,628.2' LAT.) 39°40'10.0" LONG.) 80°39'34.0" DEC. LAT.) 39.669456° DEC. LONG.) 80.659435°	BOTTOM HOLE (NAD 27) N) 423,330.5' E) 1,678,606.1' LAT.) 39°39'24.0" LONG.) 80°38'29.5" DEC. LAT.) 39.656680° DEC. LONG.) 80.641540°
TOP HOLE (UTM NAD 83) N) 4,391,135.47m E) 529,226.36m	BOTTOM HOLE (UTM NAD 83) N) 4,389,723.61m E) 530,766.90m

GRID NORTH
NAD 83

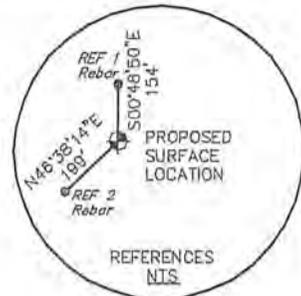
Longitude: W 80°37'30"

GENERAL NOTES:

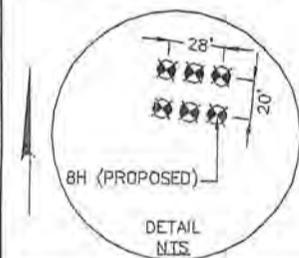
1. THE BOUNDARY LINES SHOWN HEREON ARE BASED ON RECORD DEED, PLATS, AND TAX MAPS BEST FIT TO FOUND FIELD EVIDENCE AND AERIAL PHOTOS.
2. THIS PLAT DOES NOT REPRESENT AN ACTUAL BOUNDARY SURVEY OF THE INDIVIDUAL PARCELS.

LEGEND

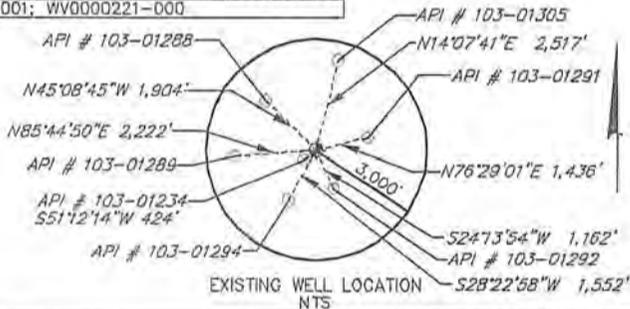
- PROPOSED GAS WELL
- PROPOSED BORE
- PROPERTY CORNER TIE LINE
- OIL & GAS LEASE BOUNDARY
- PROPERTY LINE
- STREAM LINE



TRACT	N/F PROPERTY OWNER/LESSOR	PARCEL NUMBER	LEASE NUMBER
1	WILLIAM D. & SHIRLEY E. RITCHEA	12-15-00210000	WV0000113-000
2	BERNARD LEE DUELLEY & SUSAN HALL, ET AL	12-15-00220000	WV0000114-001 TO 009
3	BERNARD LEE DUELLEY & SUSAN HALL, ET AL	12-15-00260000	WV0000110-000
4	FRANCES W. JAMISON	12-15-00270000	WV0000110-000
5	LINDA SNIDER STANSBERRY & JAMES F. SNIDER	12-15-00320000	WV0000110-000
6	TERREL LEMOYN MELOTT	01-10-00220000	WV0000192-001; WV0000193-001; WV0000202-001
7	GARNET & HUGH SNIDER	01-10-00210000	WV0000159-001; WV0000221-000



PROPOSED SURFACE LOCATION



FILE#: 08541-8003

DRAWING#: 085418003_Well Plat

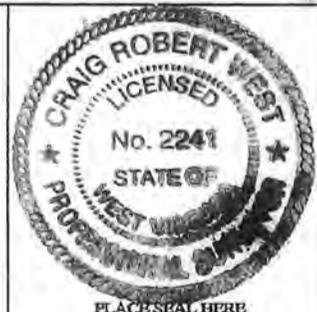
SCALE: 1" = 1,600'

MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING SURVEY GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

SIGNED: _____
R.P.E.: _____ L.L.S.: _____



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



DATE: FEBRUARY 28, 2012
OPERATOR'S WELL #: WILLIAM RITCHEA WTZ 8H
API WELL #: 47 103 02278HG A
STATE COUNTY PERMIT

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

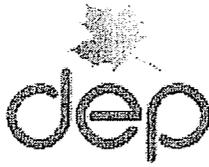
WATERSHED: MIDDLE OHIO NORTH ELEVATION: 1,584'
 COUNTY/DISTRICT: WETZEL / PROCTOR QUADRANGLE: WILEYVILLE
 SURFACE OWNER: WILLIAM D. & SHIRLEY E. RITCHEA ACREAGE: 85±
 OIL & GAS ROYALTY OWNER: ACREAGE:

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: TMD: 14,133 TVD: 7,480
 WELL OPERATOR: CHESAPEAKE APPALACHIA, LLC DESIGNATED AGENT: ERIC B. GILLESPIE
 ADDRESS: P.O. BOX 18496 ADDRESS: P.O. BOX 6070
 CITY: OKLAHOMA CITY STATE: OK ZIP CODE: 73154-0496 CITY: CHARLESTON STATE: WV ZIP CODE: 25362

14,166'

PROPOSED SURFACE LOCATION LAT. N 39°40'10.0" (NAD 27)



west virginia department of environmental protection

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August 24, 2012

WELL WORK PERMIT

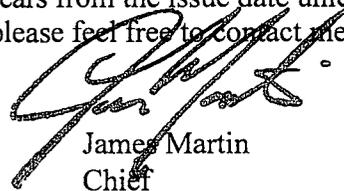
Horizontal 6A Well

This permit, API Well Number: 47-10302778, 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.

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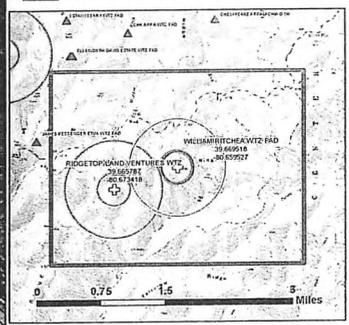
James Martin
Chief

Operator's Well No: WILLIAM RITCHEA WTZ 8H
Farm Name: RITCHEA, WILLIAM D. & SHIRLI
API Well Number: 47- 10302778
Permit Type: Horizontal 6A Well
Date Issued: 08/24/2012

Promoting a healthy environment.

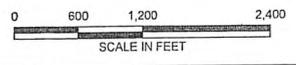


- Legend**
- ⊕ Other CHK Non-Spud Well
 - ⊕ WILLIAM RITCHEA WTZ PAD
 - △ Other Consultant Spud Well
 - ⊕ SAIC Spud Well
 - △ Other Consultant Non-Spud Well
 - ⊙ USGS NWIS Water Quality Well
 - ⊙ USGS NWIS Water Level Well
 - ⊙ USGS NURE Well
 - ◆ Sampled Location
 - Roads
 - Radius of Other CHK Site
 - 1000' Radius of Site
 - 3000' Radius of Site
 - ▨ Parcel Within 3000' of Other CHK Site
 - ▨ Parcels Within 3000' of Site
 - Parcels Within 1000' of Site
 - ▨ Parcels Outside Radius



WILLIAM RITCHEA WTZ PAD - 915120
 39.669518
 -80.659527

- Notes:**
1. CHK is abbreviation for Chesapeake.
 2. Parcel information from Chesapeake Energy.
 3. Base map from ESRI ArcGIS Online.
 The map includes i-cubed Nationwide Prime 1m or better resolution imagery for the contiguous United States.
 4. For more information figure Ridgetop Land Ventures WTZ Pad.



Chesapeake Energy
 WILLIAM RITCHEA WTZ PAD - 915120
 Wetzel County, West Virginia

Site Parcel Map

drawn	JEB	checked		approved		figure no.	
date	12/15/2011	date		date			1
job no.	26051V0011	file no.	WILLIAM RITCHEA WTZ PAD - 915120				
insets	date	revision					



RECEIVED
 OFFICE OF OIL & GAS
 APR 18 2012
 WV 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
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August 24, 2012

WELL WORK PERMIT

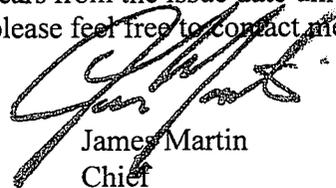
Horizontal 6A Well

This permit, API Well Number: 47-10302777, 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.

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

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: WILLIAM RITCHEA WTZ 3H
Farm Name: RITCHEA, WILLIAM D. & SHIRL

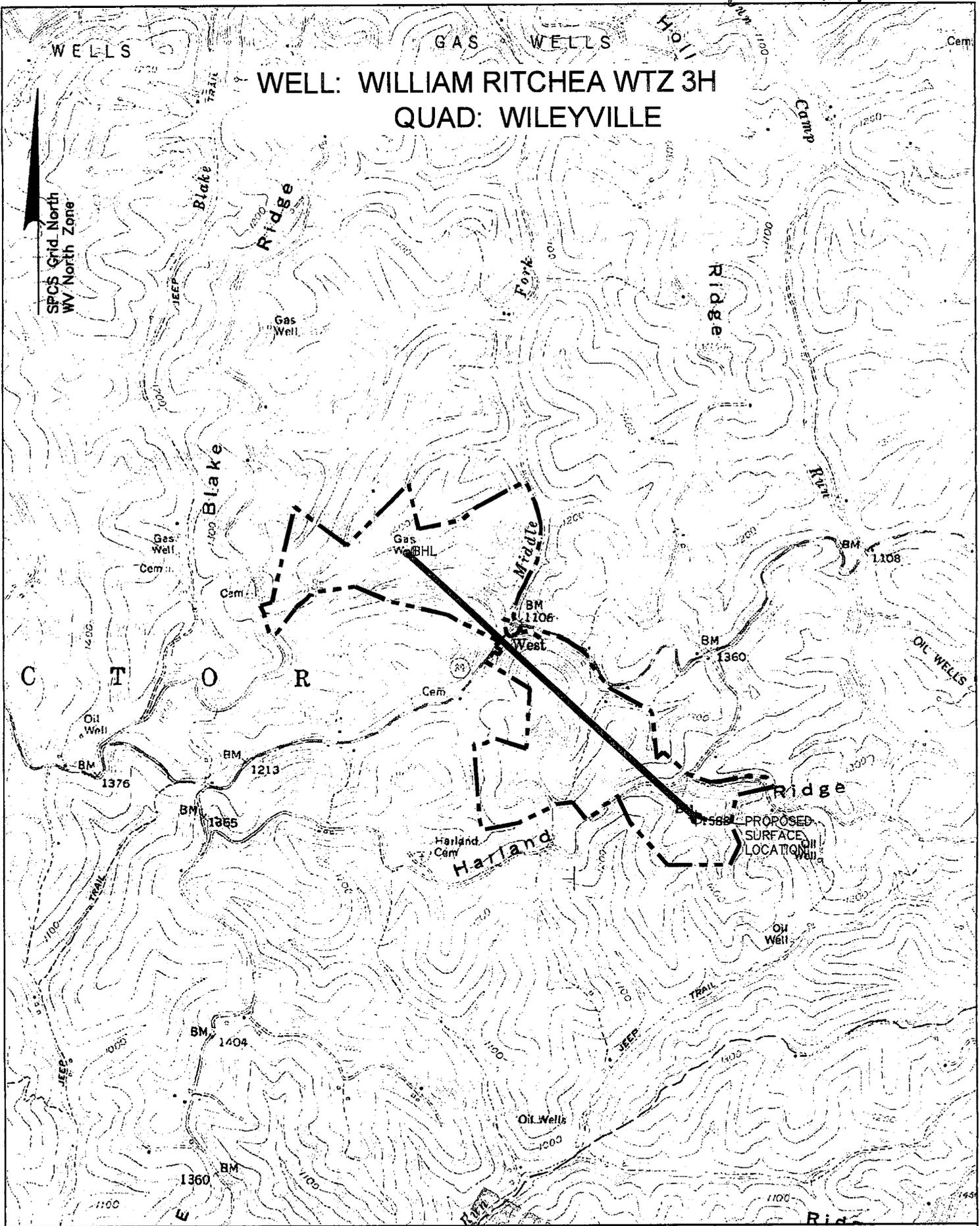
API Well Number: 47-10302777

Permit Type: Horizontal 6A Well

Date Issued: 08/24/2012

Promoting a healthy environment.

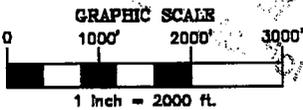
WELL: WILLIAM RITCHEA WTZ 3H
 QUAD: WILEYVILLE



APR 18 2012
 Environmental

LEGEND

- PROPOSED GAS WELL
- BOTTOM HOLE LOCATION
- PROPOSED BORE
- EXTERNAL LEASE LINE



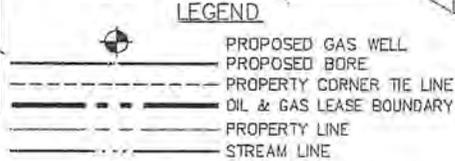
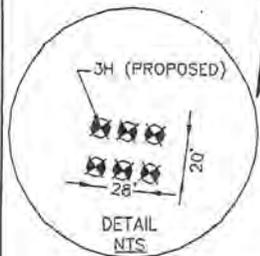
NOTE:
 THE PURPOSE OF THIS PLAT IS FOR THE LOCATION OF PROPOSED GAS
 WELLS AND DOES NOT REPRESENT A CLOSED BOUNDARY SURVEY.
 PROPERTY LINES AND OWNERS WERE OBTAINED FROM VARIOUS FIELD
 EVIDENCE, TAX RECORDS AND AERIAL MAPPING.

TOP HOLE (NAD 83) N) 428,107.9' E) 1,642,164.5' LAT.) 39°40'10.6" LONG.) 80°39'33.6" DEC. LAT.) 39.669598' DEC. LONG.) 80.659338'	BOTTOM HOLE (NAD 83) N) 432,519.2' E) 1,637,390.6' LAT.) 39°40'53.5" LONG.) 80°40'35.4" DEC. LAT.) 39.681538' DEC. LONG.) 80.676502'
TOP HOLE (NAD 27) N) 428,071.0' E) 1,673,602.7' LAT.) 39°40'10.3" LONG.) 80°39'34.3" DEC. LAT.) 39.669518' DEC. LONG.) 80.659527'	BOTTOM HOLE (NAD 27) N) 432,482.4' E) 1,668,828.7' LAT.) 39°40'53.2" LONG.) 80°40'36.1" DEC. LAT.) 39.681458' DEC. LONG.) 80.676690'
TOP HOLE (UTM NAD 83) N) 4,391,142.38m E) 529,218.47m	BOTTOM HOLE (UTM NAD 83) N) 4,392,462.02m E) 527,741.61m

Applicant / Well Operator Name CHESAPEAKE APPALACHIA, LLC		Well (Farm) Name WILLIAM RITCHEA WTZ		Well # 3H	Serial #
Address PO BOX 18496 OKLAHOMA CITY, OK 73154-0498		County - Code WETZEL - 103	District PROCTOR		
Surface Landowner / Lessor WILLIAM D. & SHIRLEY E. RITCHEA		USGS 7 1/2 Quadrangle Map Name WILEYVILLE			

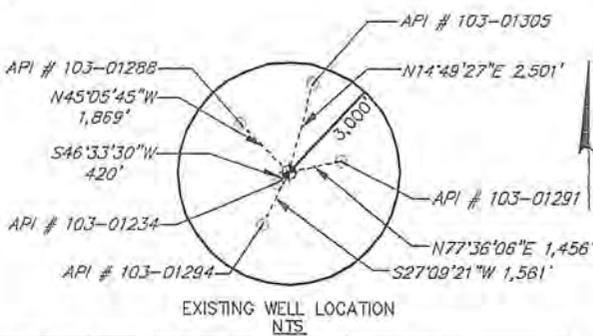


TOP HOLE (NAD 83) N) 428,107.9' E) 1,842,164.5' LAT.) 39°40'10.6" LONG.) 80°39'33.6" DEC. LAT.) 39.669598' DEC. LONG.) 80.659338'	BOTTOM HOLE (NAD 83) N) 432,519.2' E) 1,637,390.6' LAT.) 39°40'53.5" LONG.) 80°40'35.4" DEC. LAT.) 39.681538' DEC. LONG.) 80.676502'
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GENERAL NOTES:

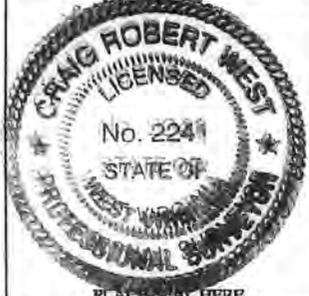
1. THE BOUNDARY LINES SHOWN HEREON ARE BASED ON RECORD DEED, PLATS, AND TAX MAPS BEST FIT TO FOUND FIELD EVIDENCE AND AERIAL PHOTOS. THIS PLAT DOES NOT REPRESENT AN ACTUAL BOUNDARY SURVEY OF THE INDIVIDUAL PARCELS.



TRACT	N/F PROPERTY OWNER/LESSOR	PARCEL NUMBER	LEASE NUMBER
1	DALE A. HERMAN	12-09-00460000	1-264579-000
2	WAYNE GODDARD	12-09-00460003	1-28450-001 & 002
3	NORMAN E., JR. & NANCY M. KEENEY	12-09-00450000	1-254812-000
4	WAYNE & SANDRA M. HUGGINS	12-09-00460001	1-281150-001 & 002
5	WILLIAM D. & SHIRLEY E. RITCHEA	12-14-00090000	WV0000129-001 to 003
6	WILLIAM R. PITOSCIA	12-14-00160000	WV0000109-001 to 003 WV0000105-000
7	WILLIAM D. & SHIRLEY E. RITCHEA	12-15-00210000	WV0000113-000

FILE #: 08541-8003
 DRAWING #: D85418003_Well Plat
 SCALE: 1" = 1,600'
 MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING SURVEY 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.



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



DATE: FEBRUARY 28, 2012
 OPERATOR'S WELL #: WILLIAM RITCHEA WIZ 3H
 API WELL #: 47 103 02117H
 STATE COUNTY PERMIT

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

WATERSHED: MIDDLE OHIO NORTH ELEVATION: 1,584'
 COUNTY/DISTRICT: WETZEL / PROCTOR QUADRANGLE: WILEYVILLE
 SURFACE OWNER: WILLIAM D. & SHIRLEY E. RITCHEA ACREAGE: 85±
 OIL & GAS ROYALTY OWNER: ACREAGE:

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: TMD: 13,830' TVD: 7,535'
 WELL OPERATOR: CHESAPEAKE APPALACHIA, LLC DESIGNATED AGENT: ERIC B. GILLESPIE
 ADDRESS: P.O. BOX 18496 ADDRESS: P.O. BOX 6070
 CITY: OKLAHOMA CITY STATE: OK ZIP CODE: 73154-0496 CITY: CHARLESTON STATE: WV ZIP CODE: 25362



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

August 24, 2012

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-9502060, issued to HAUGHT ENERGY CORPORATION, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

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

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

James Martin
Chief

Operator's Well No: W-1639

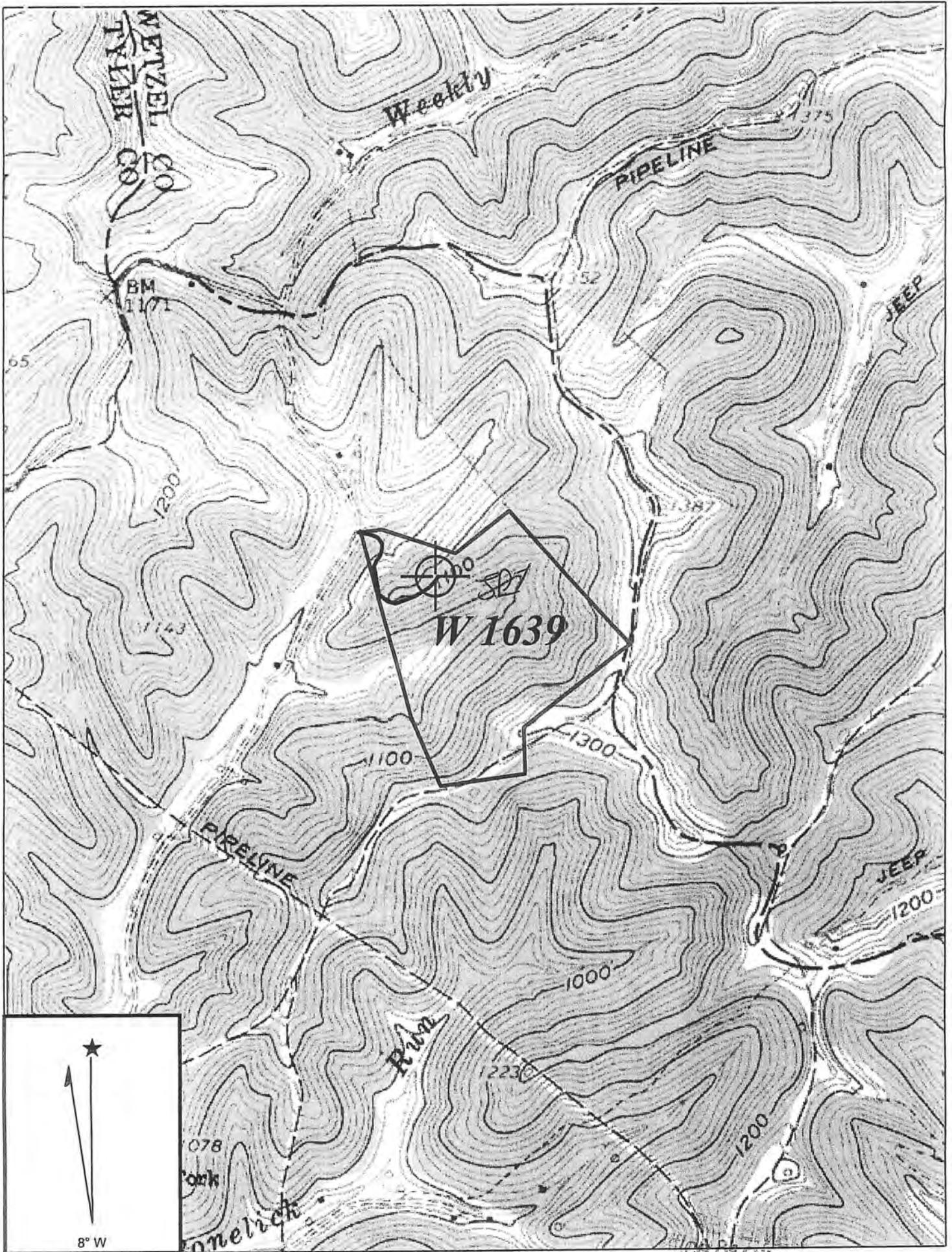
Farm Name: KOWALSKI, DOMINIC J. AND D.

API Well Number: 47-9502060

Permit Type: Vertical Well

Date Issued: 08/24/2012

Promoting a healthy environment.



Copyright (C) 1997, Maptech, Inc.

CENTER POINT QUADRANGLE

JUL 26 2012

SCALE 1" = 1000'

WV Department of Environmental Protection

HAUGHT ENERGY CORP.

WELL: W 1639
DOMINIC & MICHELE KOWALSKI 68.68 ACRE LEASE

MCELROY DISTRICT TYLER COUNTY WEST VIRGINIA

80°43' 33.91" (80.726086)

4970'

LATITUDE

39°30' 00"

DOMINIC KOWALSKI +/- 68 ACRE LEASE

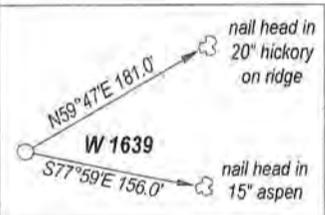
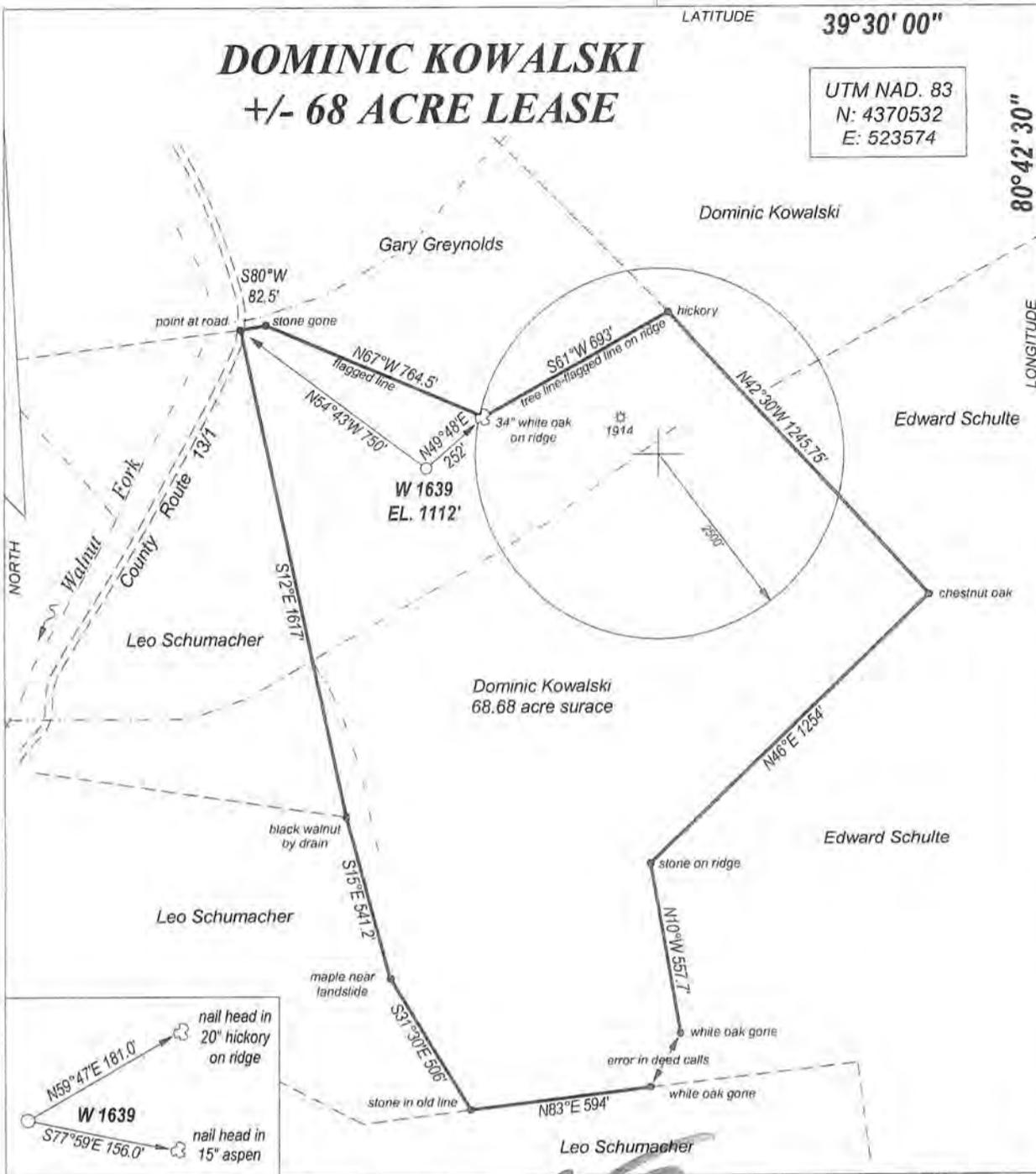
UTM NAD. 83
N: 4370532
E: 523574

80°42' 30"

5820'

LONGITUDE

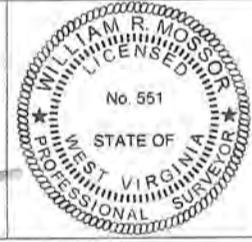
39°29' 02.52" (39.484033)



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 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 AND NATURAL RESOURCES.

(SIGNATURE) _____
 PROFESSIONAL SURVEYOR: 551



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

DATE JUNE 14TH, 2012
 OPERATORS WELL NO. W 1639

API 47 - 095 - 02060
 STATE COUNTY PERMIT

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

LOATION: ELEVATION 1112' WATER SHED WALNUT FORK
 DISTRICT MCELROY COUNTY TYLER QUADRANGLE _____ CENTER POINT _____

SURFACE OWNER DOMINIC J. KOWALSKI & D. MICHELE KOWALSKI ACREAGE 68.68
 OIL & GAS ROYALTY DOMINIC J. KOWALSKI & D. MICHELE KOWALSKI LEASE AC +/- 68

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 BENSON/ ALEXANDER ESTIMATED DEPTH 5500' TO 5700'

WELL OPERATOR HAUGHT ENERGY CORP. DESIGNATED AGENT WARREN HAUGHT
 ADDRESS HC 68, BOX 14 ADDRESS HC 68, BOX 14
SMITHVILLE, WV 26178 SMITHVILLE, WV 26178

FORM WW - 6

COUNTY NAME
PREMIT



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

August 24, 2012

WELL WORK PERMIT
Vertical Well

This permit, API Well Number: 47-1706131, issued to KEY OIL 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.

Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

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

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

James Martin
Chief

Operator's Well No: TARGA/MAXWELL 8
Farm Name: MORRIS, I.L. (IKE)

API Well Number: 47-1706131

Permit Type: Vertical Well

Date Issued: 08/24/2012

Promoting a healthy environment.

17-06131

WW9

PAGE OF

TARGA/MAXWELL WELL NO. 8

DKS 8-13-12



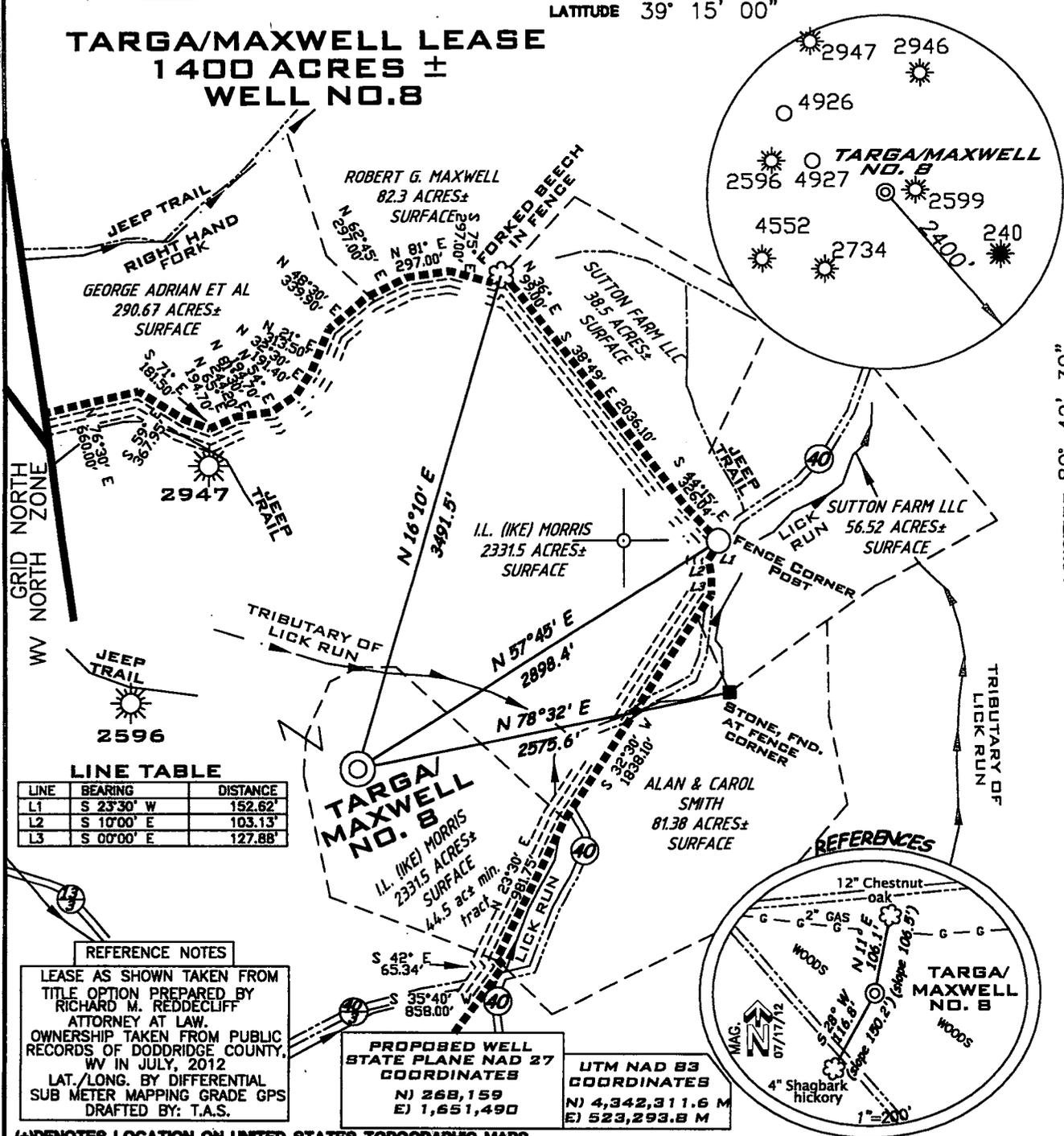
ANGLE RIGHT LAND SURVEYING, LLC PO BOX 681 GRANTSVILLE, WV 26147 (304) 364-0085 080450	OPERATOR	TOPO SECTION	WELL NAME
	KEY OIL COMPANY 22 GARTON PLAZA WESTON, WV 26452	NEW MILTON 7.5'	TARGA/MAXWELL NO.8
		SCALE: 1"=2000'	DATE: 07/23/2012

SURVEYED LONG. 80° 43' 49.1"
NAD 27 DECIMAL LONG : 80.73029

6,220'

LATITUDE 39° 15' 00"

**TARGA/MAXWELL LEASE
1400 ACRES ±
WELL NO. 8**



LONGITUDE 80° 42' 30"

SURVEYED LAT. 39° 13' 46.9"
DECIMAL LAT: 39.22970

LINE TABLE

LINE	BEARING	DISTANCE
L1	S 23°30' W	152.62'
L2	S 10°00' E	103.13'
L3	S 00°00' E	127.88'

REFERENCE NOTES
LEASE AS SHOWN TAKEN FROM TITLE OPTION PREPARED BY RICHARD M. REDDECLIFF ATTORNEY AT LAW. OWNERSHIP TAKEN FROM PUBLIC RECORDS OF DODDRIDGE COUNTY, WV IN JULY, 2012. LAT./LONG. BY DIFFERENTIAL SUB METER MAPPING GRADE GPS DRAFTED BY: T.A.S.

PROPOSED WELL STATE PLANE NAD 27 COORDINATES
N) 268,159
E) 1,651,490

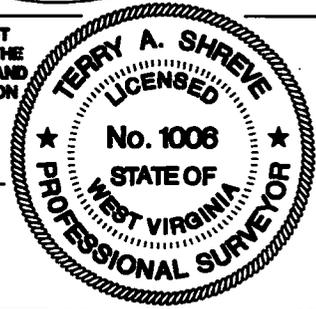
UTM NAD 83 COORDINATES
N) 4,342,311.6 M
E) 523,293.8 M

(+)-DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

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

FILE NUMBER 080450
DRAWING NUMBER WP8(WB18-5)
SCALE 1"=1000'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION SUB METER MAPPING
GRADE GPS

P.S. 1008



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

DATE: JULY 27, 2012
OPERATORS WELL NO. TARGA/MAXWELL No. 8
API WELL NO. 47-017 C6131
STATE COUNTY PERMIT

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

LOCATION ELEVATION 1,141' WATERSHED LICK RUN
DISTRICT NEW MILTON COUNTY DODDRIDGE
QUADRANGLE NEW MILTON 7.5 LEASE NUMBER

SURFACE OWNER I.L.(IKE) MORRIS ACREAGE 2331.5±
OIL & GAS ROYALTY OWNER PORTER MAXWELL SR. HEIRS ET AL LEASE ACREAGE 44.5 of 1400±

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

TARGET FORMATION GORDON ESTIMATED DEPTH 3,000'
PLUG & ABANDON CLEAN OUT & REPLUG

WELL OPERATOR KEY OIL COMPANY DESIGNATED AGENT JAN CHAPMAN
ADDRESS 22 GARTON PLAZA WESTON, WV 26452 ADDRESS 22 GARTON PLAZA WESTON, WV 26452

COUNTY NAME PERMIT

form wp8 A.R.L.B.



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

August 24, 2012

WELL WORK PERMIT

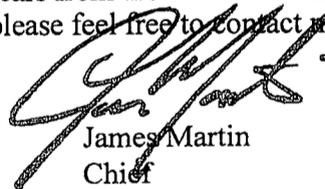
Vertical Well

This permit, API Well Number: 47-1706132, issued to KEY OIL 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.

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

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: TARGA/MAXWELL 9
Farm Name: MORRIS, I.L. (IKE)

API Well Number: 47-1706132

Permit Type: Vertical Well

Date Issued: 08/24/2012

Promoting a healthy environment.

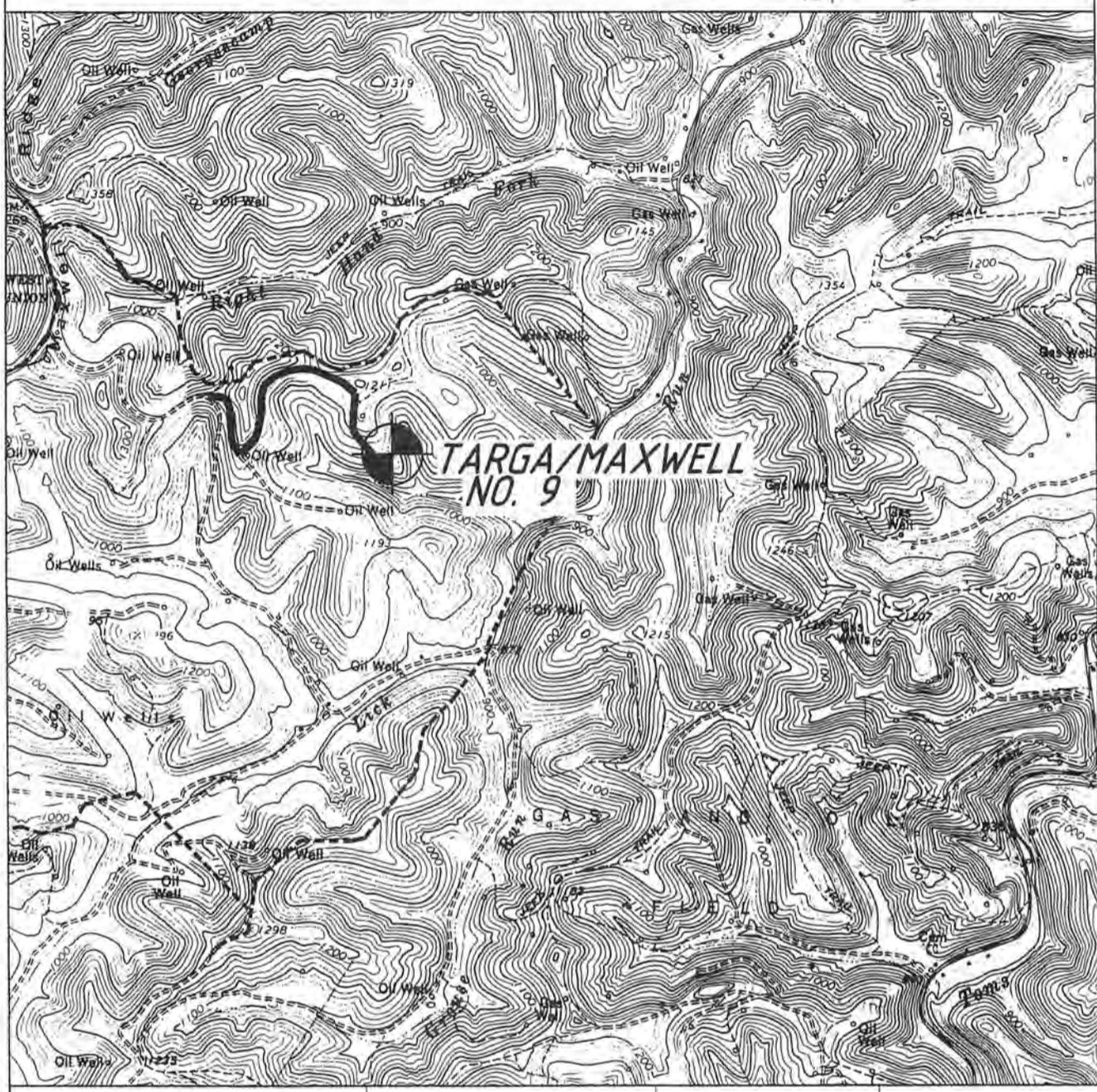
170632

WW9

PAGE OF

TARGA/MAXWELL WELL NO. 9

OKS 8-13-12



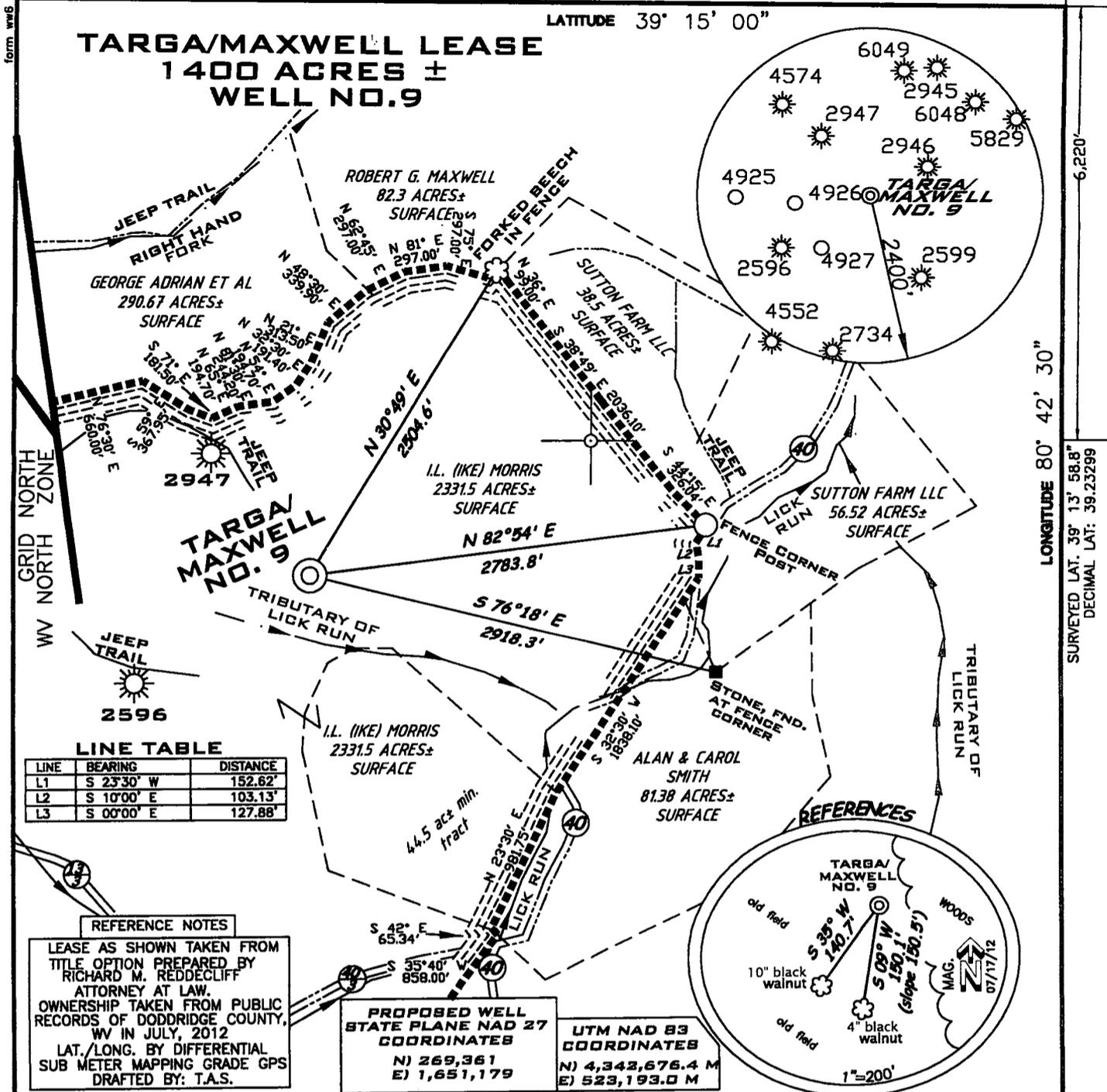
ANGLE RIGHT LAND SURVEYING, LLC PO BOX 881 GRANTSVILLE, WV 26147 (304) 354-0085 080450	OPERATOR	TOPD SECTION	WELL NAME
	KEY OIL COMPANY 22 GARTON PLAZA WESTON, WV 26452	NEW MILTON 7.5'	TARGA/MAXWELL NO.9
		SCALE: 1"=2000'	DATE: 07/23/2012

SURVEYED LONG. 80° 43' 53.2"
NAD 27 DECIMAL LONG : 80.73145

6,550'

LATITUDE 39° 15' 00"

**TARGA/MAXWELL LEASE
1400 ACRES ±
WELL NO.9**

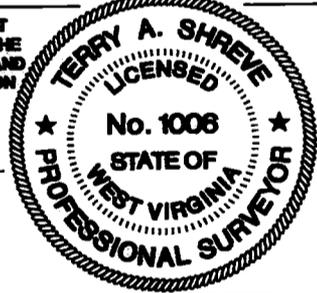


(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

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

FILE NUMBER 080450
DRAWING NUMBER WP9(WB18-5)
SCALE 1"=1000'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION SUB METER MAPPING
GRADE GPS

P.S. 1006



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

DATE: JULY 27, 2012
OPERATORS WELL NO. TARGA/MAXWELL No.9
API WELL NO. 47-017
STATE 06132 COUNTY PERMIT

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

LOCATION ELEVATION 1,026' WATERSHED LICK RUN
DISTRICT NEW MILTON COUNTY DODDRIDGE
QUADRANGLE NEW MILTON 7.5 LEASE NUMBER _____

SURFACE OWNER I.L.(IKE) MORRIS ACREAGE 2331.5±
OIL & GAS ROYALTY OWNER PORTER MAXWELL SR. HEIRS ET AL LEASE ACREAGE 1400±

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

PLUG & ABANDON CLEAN OUT & REPLUG

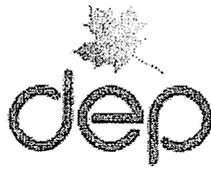
TARGET FORMATION GORDON ESTIMATED DEPTH 3,000'

WELL OPERATOR KEY OIL COMPANY DESIGNATED AGENT JAN CHAPMAN
ADDRESS 22 GARTON PLAZA WESTON, WV 26452 ADDRESS 22 GARTON PLAZA WESTON, WV 26452

COUNTY NAME PERMIT

form wv6
A.R.L.B

LONGITUDE 80° 42' 30"
SURVEYED LAT. 39° 15' 58.8"
DECIMAL LAT: 39.23299



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

August 24, 2012

WELL WORK PERMIT

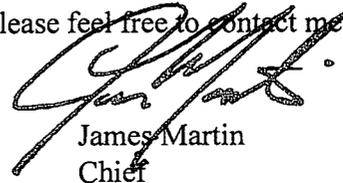
Vertical Well

This permit, API Well Number: 47-1706130, issued to KEY OIL 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.

Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

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

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



James Martin
Chief

Operator's Well No: TARGA/MAXWELL 7
Farm Name: PORTER MAXWELL SR. HEIRS E
API Well Number: 47-1706130
Permit Type: Vertical Well
Date Issued: 08/24/2012

Promoting a healthy environment.

TARGA/MAXWELL WELL NO. 7

OK8 8-13-12



ANGLE RIGHT LAND SURVEYING, LLC
 PO BOX 681
 GRANTSVILLE, WV 26147
 (304) 354-0086

080450

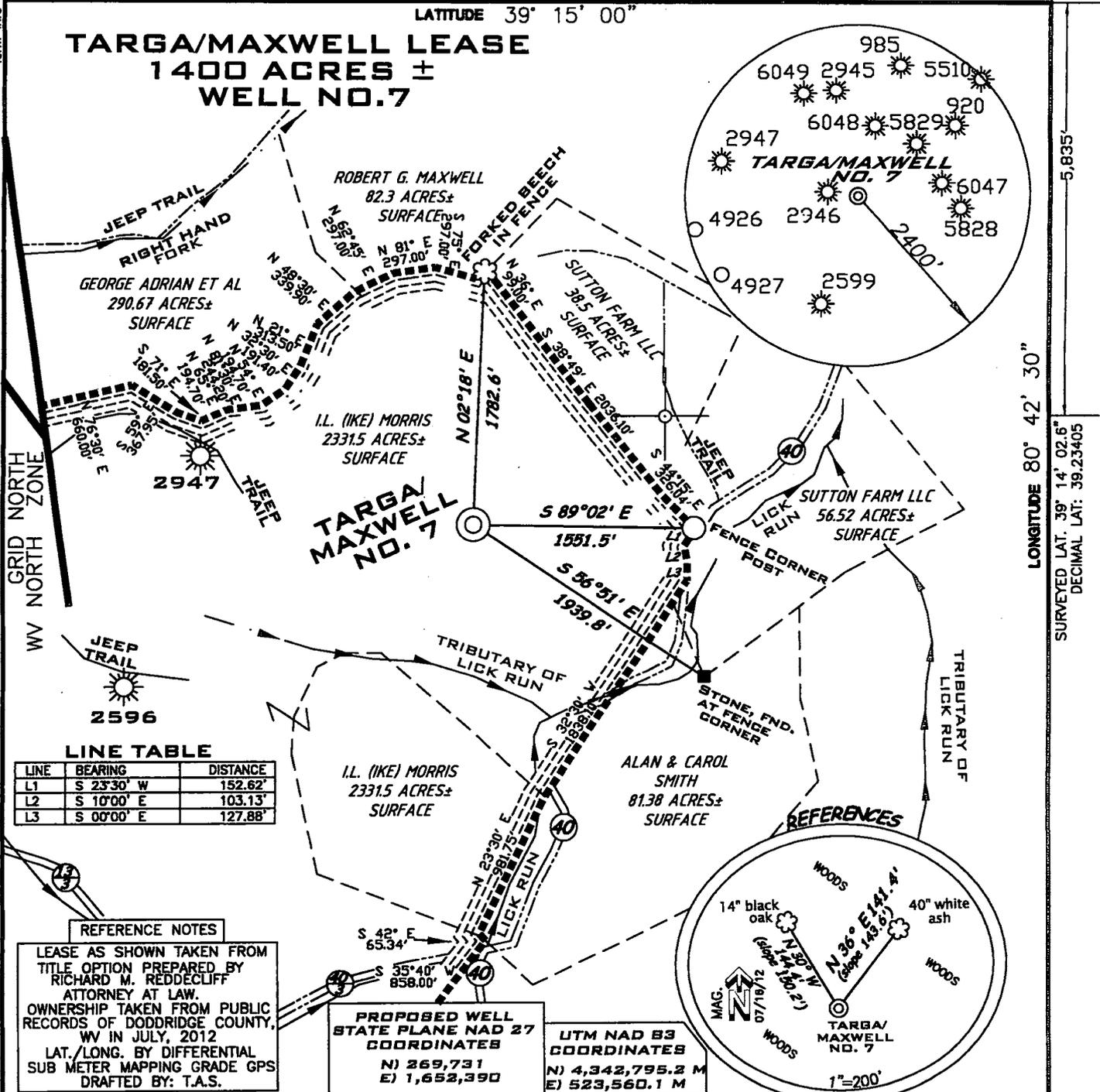
OPERATOR	TOPO SECTION	WELL NAME
KEY OIL COMPANY 22 GARTON PLAZA WESTON, WV 26452	NEW MILTON 7.5'	TARGA/MAXWELL NO.7
	SCALE:	DATE:
	1"=2000'	07/23/2012

SURVEYED LONG. 80° 43' 37.9"
NAD 27 DECIMAL LONG : 80.72719

5,340'

LATITUDE 39° 15' 00"

**TARGA/MAXWELL LEASE
1400 ACRES ±
WELL NO.7**

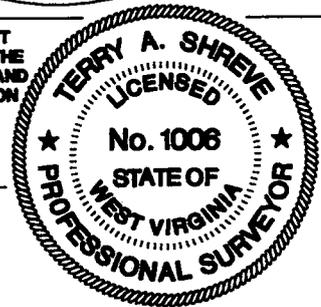
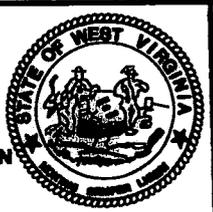


(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

FILE NUMBER 080450
DRAWING NUMBER WP7(WB1B-4)
SCALE 1"=1000'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION SUB METER MAPPING GRADE GPS

I THE UNDERSIGNED HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

P.S. 1006



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

DATE: JULY 27, 2012
OPERATORS WELL NO. TARGA/MAXWELL No.7
API WELL NO. 47-017 06120
STATE COUNTY PERMIT

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

LOCATION ELEVATION 1,041' WATERSHED LICK RUN
DISTRICT NEW MILTON COUNTY DODDRIDGE

QUADRANGLE NEW MILTON 7.5 LEASE NUMBER

SURFACE OWNER I.L.(IKE) MORRIS ACREAGE 2331.5±

OIL & GAS ROYALTY OWNER PORTER MAXWELL SR. HEIRS ET AL LEASE ACREAGE 1400±

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

PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
TARGET FORMATION GORDON ESTIMATED DEPTH 3,000'

WELL OPERATOR KEY OIL COMPANY DESIGNATED AGENT JAN CHAPMAN

ADDRESS 22 GARTON PLAZA WESTON, WV 26452 ADDRESS 22 GARTON PLAZA WESTON, WV 26452

COUNTY NAME PERMIT

form WVG
A.R.L.B

5,835'
LONGITUDE 80° 42' 30"
SURVEYED LAT. 39° 14' 02.6"
DECIMAL LAT: 39.23405



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

August 24, 2012

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-1706133, issued to KEY OIL 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.

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

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: TARGA/MAXWELL 10

Farm Name: MORRIS, I.L. (IKE)

API Well Number: 47-1706133

Permit Type: Vertical Well

Date Issued: 08/24/2012

Promoting a healthy environment.

1706133

WW9

PAGE OF

TARGA/MAXWELL WELL NO. 10

AKS 8-13-12



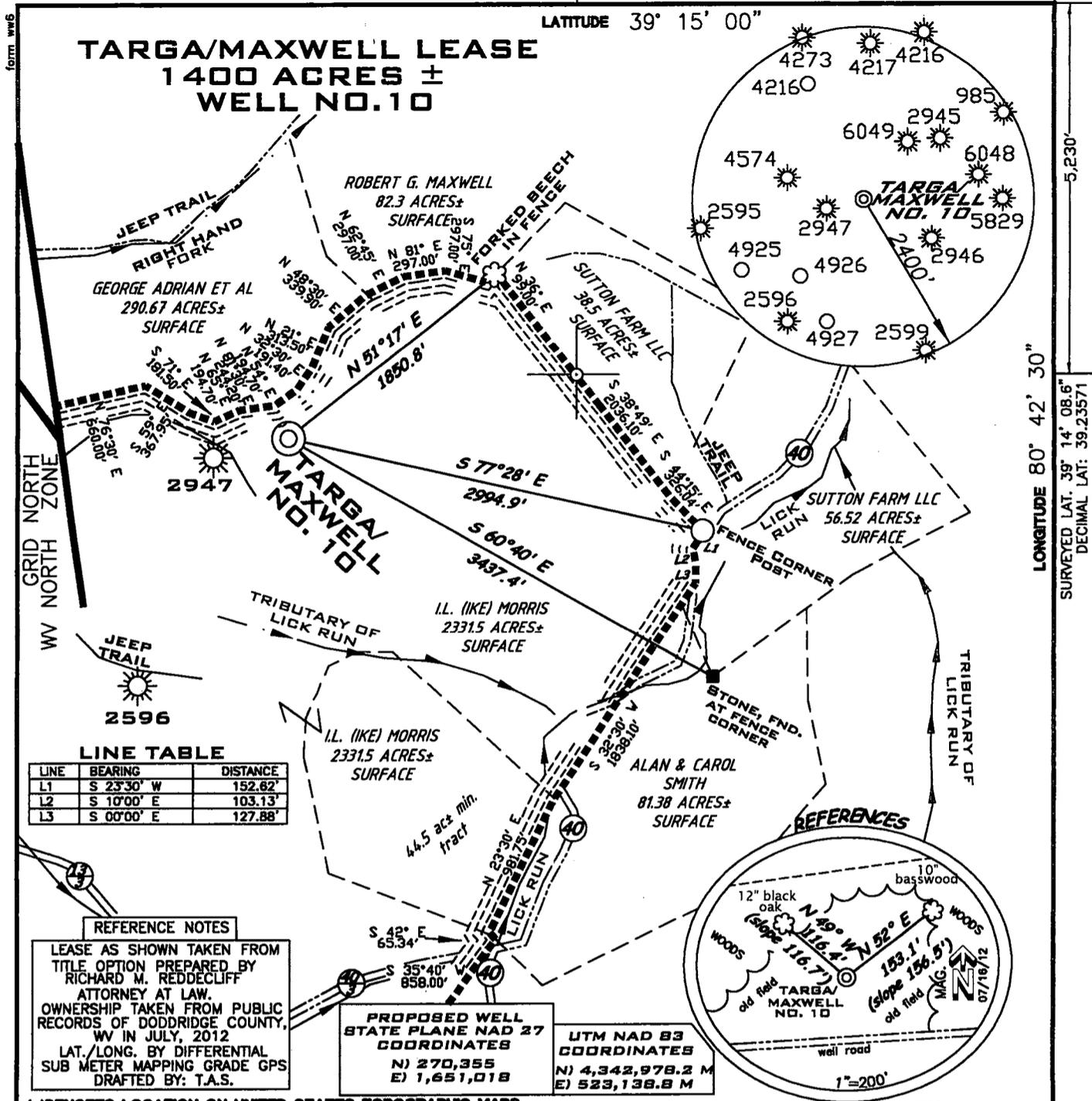
ANGLE RIGHT LAND SURVEYING, LLC PO BOX 681 GRANTSVILLE, WV 26147 (304) 354-0065 080450	OPERATOR	TOPD SECTION	WELL NAME
	KEY OIL COMPANY 22 GARTON PLAZA WESTON, WV 26452	NEW MILTON 7.5'	TARGA/MAXWELL NO.10
		SCALE: 1"=2000'	DATE: 07/23/2012

SURVEYED LONG. 80° 43' 55.4"
NAD 27 DECIMAL LONG : 80.73207

6,720'

LATITUDE 39° 15' 00"

TARGA/MAXWELL LEASE 1400 ACRES ± WELL NO. 10



LONGITUDE 80° 42' 30"
SURVEYED LAT. 39° 14' 08.6"
DECIMAL LAT: 39.23571

LINE TABLE

LINE	BEARING	DISTANCE
L1	S 25°30' W	152.62'
L2	S 10°00' E	103.13'
L3	S 00°00' E	127.88'

REFERENCE NOTES
LEASE AS SHOWN TAKEN FROM TITLE OPTION PREPARED BY RICHARD M. REDDECLIFF ATTORNEY AT LAW. OWNERSHIP TAKEN FROM PUBLIC RECORDS OF DODDRIDGE COUNTY, WV IN JULY, 2012. LAT./LONG. BY DIFFERENTIAL SUB METER MAPPING GRADE GPS DRAFTED BY: T.A.S.

PROPOSED WELL STATE PLANE NAD 27 COORDINATES
N) 270,355
E) 1,651,018

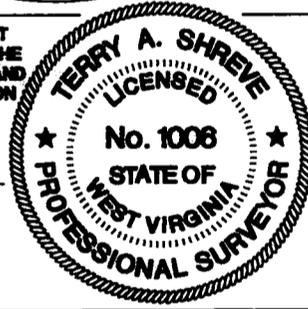
UTM NAD 83 COORDINATES
N) 4,342,978.2 M
E) 523,138.8 M

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

FILE NUMBER 080450
DRAWING NUMBER WP10(WB18-4)
SCALE 1"=1000'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION SUB METER MAPPING GRADE GPS

I THE UNDERSIGNED HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

P.S. 1006



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

DATE: JULY 27, 2012
OPERATORS WELL NO. TARGA/MAXWELL No.10
API WELL NO. 47-017 06133
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
LOCATION, ELEVATION 1,164' WATERSHED LICK RUN
DISTRICT NEW MILTON COUNTY DODDRIDGE
QUADRANGLE NEW MILTON 7.5 LEASE NUMBER
SURFACE OWNER I.L.(IKE) MORRIS ACREAGE 2331.5±
OIL & GAS ROYALTY OWNER PORTER MAXWELL SR. HEIRS ET AL LEASE ACREAGE 1400±
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION ___
PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE (SPECIFY) ___
PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
TARGET FORMATION GORDON ESTIMATED DEPTH 3,000'
WELL OPERATOR KEY OIL COMPANY DESIGNATED AGENT JAN CHAPMAN
ADDRESS 22 GARTON PLAZA WESTON, WV 26452 ADDRESS 22 GARTON PLAZA WESTON, WV 26452

COUNTY NAME PERMIT

GRID NORTH ZONE
WV NORTH ZONE
FORM WW6
A.R.L.B



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

August 24, 2012

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-9502061, issued to HAUGHT ENERGY CORPORATION, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

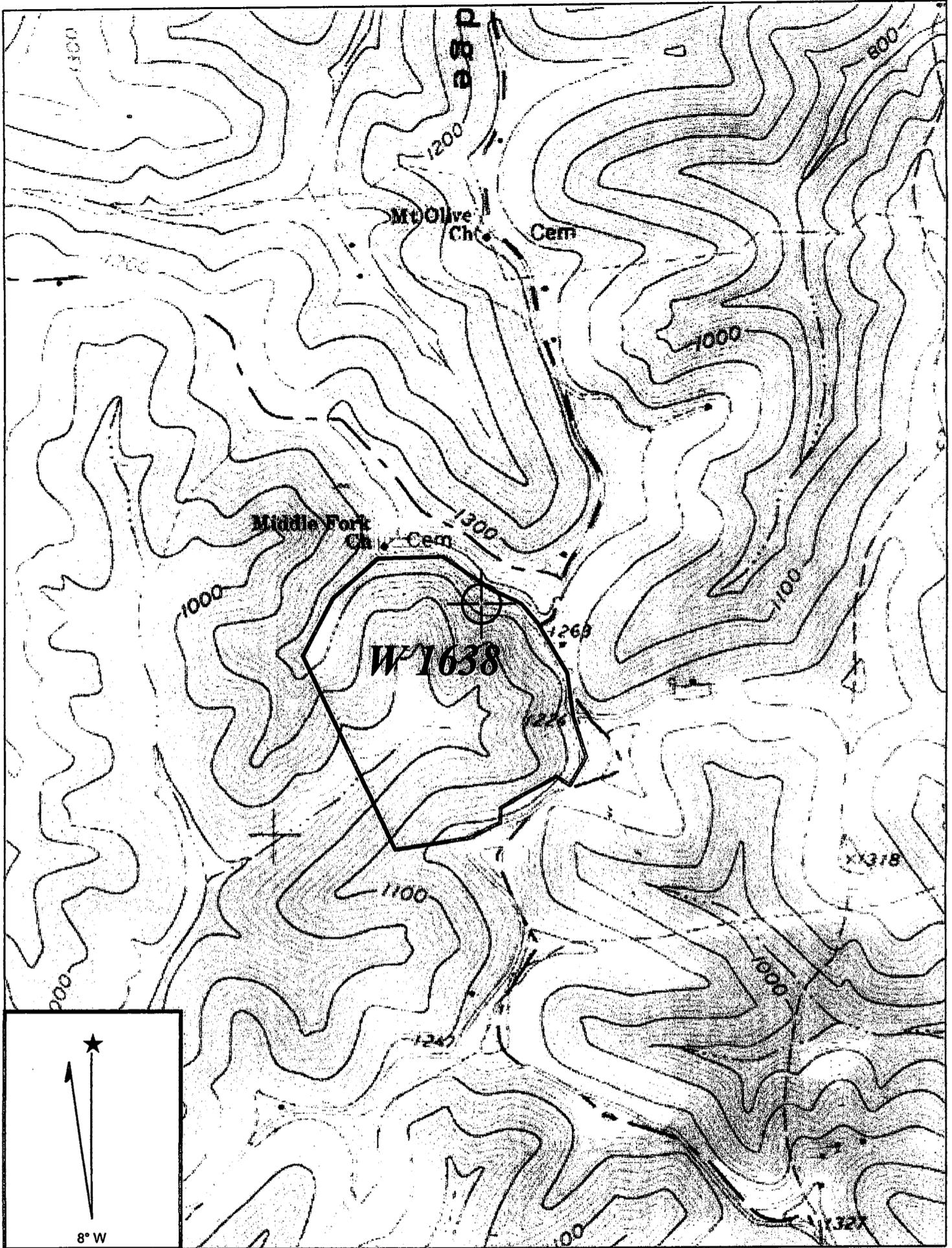
In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

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

James Martin
Chief

Operator's Well No: W-1638
Farm Name: CLARK, ARTHUR C. AND TERES
API Well Number: 47-9502061
Permit Type: Vertical Well
Date Issued: 08/24/2012

Promoting a healthy environment.



Copyright (C) 1997, Maptech, Inc.

PORTERS FALLS QUADRANGLE

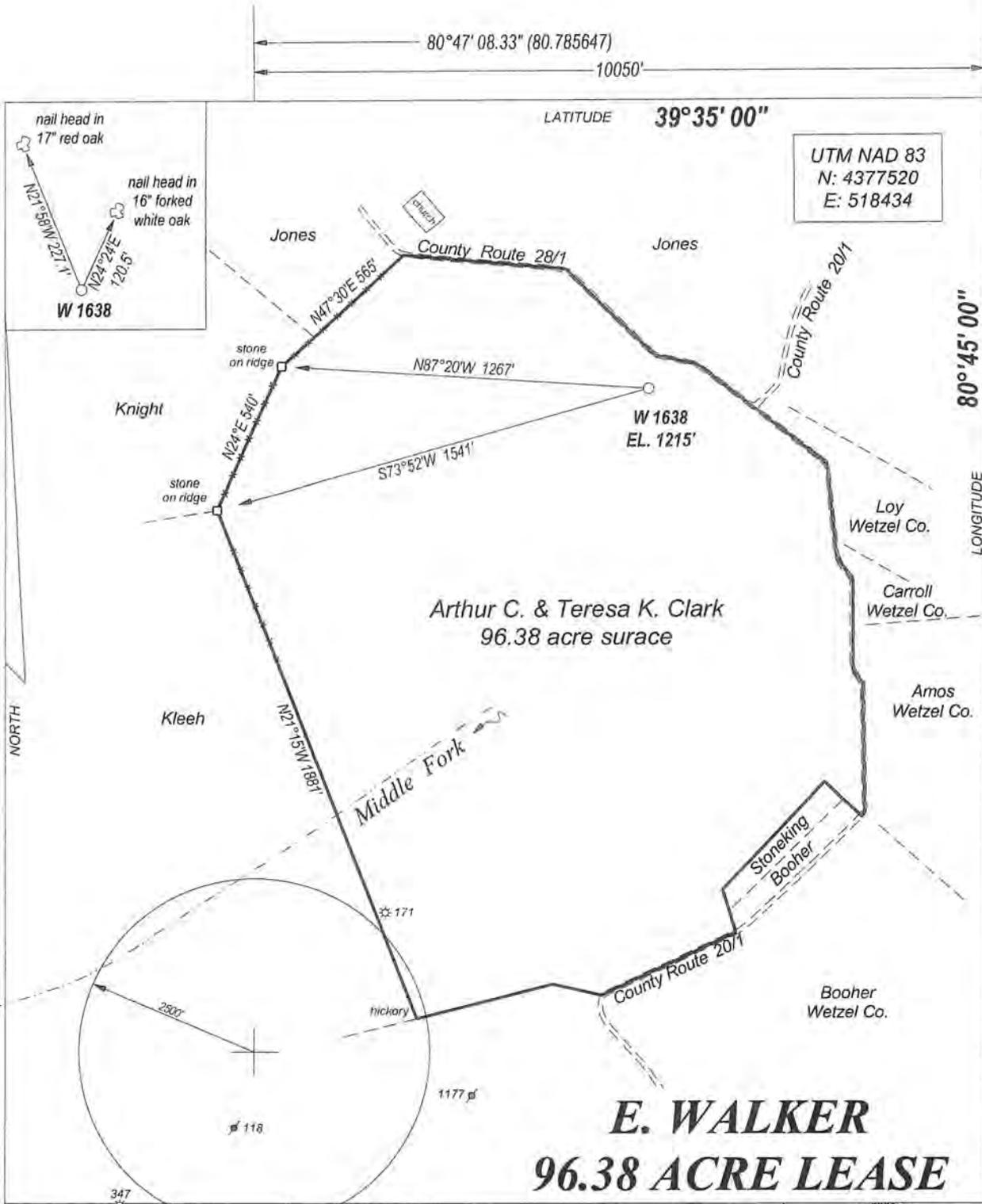
SCALE 1" = 1000'

HAUGHT ENERGY CORP.

WELL: W 1638
E. WALKER 96.38 ACRE LEASE

ELLSWORTH DISTRICT TYLER COUNTY WEST VIRGINIA

1000 of Oil & Gas
 1111 260212
 WVA Department
 Mineral Resources Section



E. WALKER
96.38 ACRE LEASE

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
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 FEBRUARY 3RD, 2012
OPERATORS WELL NO. W 1638

API 47 - 095 - 02061
STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1215' WATER SHED MIDDLE FORK
DISTRICT ELLSWORTH COUNTY TYLER QUADRANGLE PORTERS FALLS - 6

SURFACE OWNER ARTHUR C. CLARK & TERESA K. CLARK ACREAGE 96.38
OIL & GAS ROYALTY E. WALKER LEASE AC. 96.38

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 BENSON / ALEXANDER ESTIMATED DEPTH 5500' TO 5700'

WELL OPERATOR HAUGHT ENERGY CORP. DESIGNATED AGENT WARREN HAUGHT
ADDRESS HC 68, BOX 14 ADDRESS HC 68, BOX 14
SMITHVILLE, WV 26178 SMITHVILLE, WV 26178

FORM WW - 6

COUNTY NAME
PREMIT



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

August 24, 2012

WELL WORK PERMIT

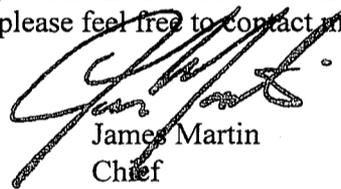
Vertical Well

This permit, API Well Number: 47-3305671, issued to PETROEDGE ENERGY, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

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

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

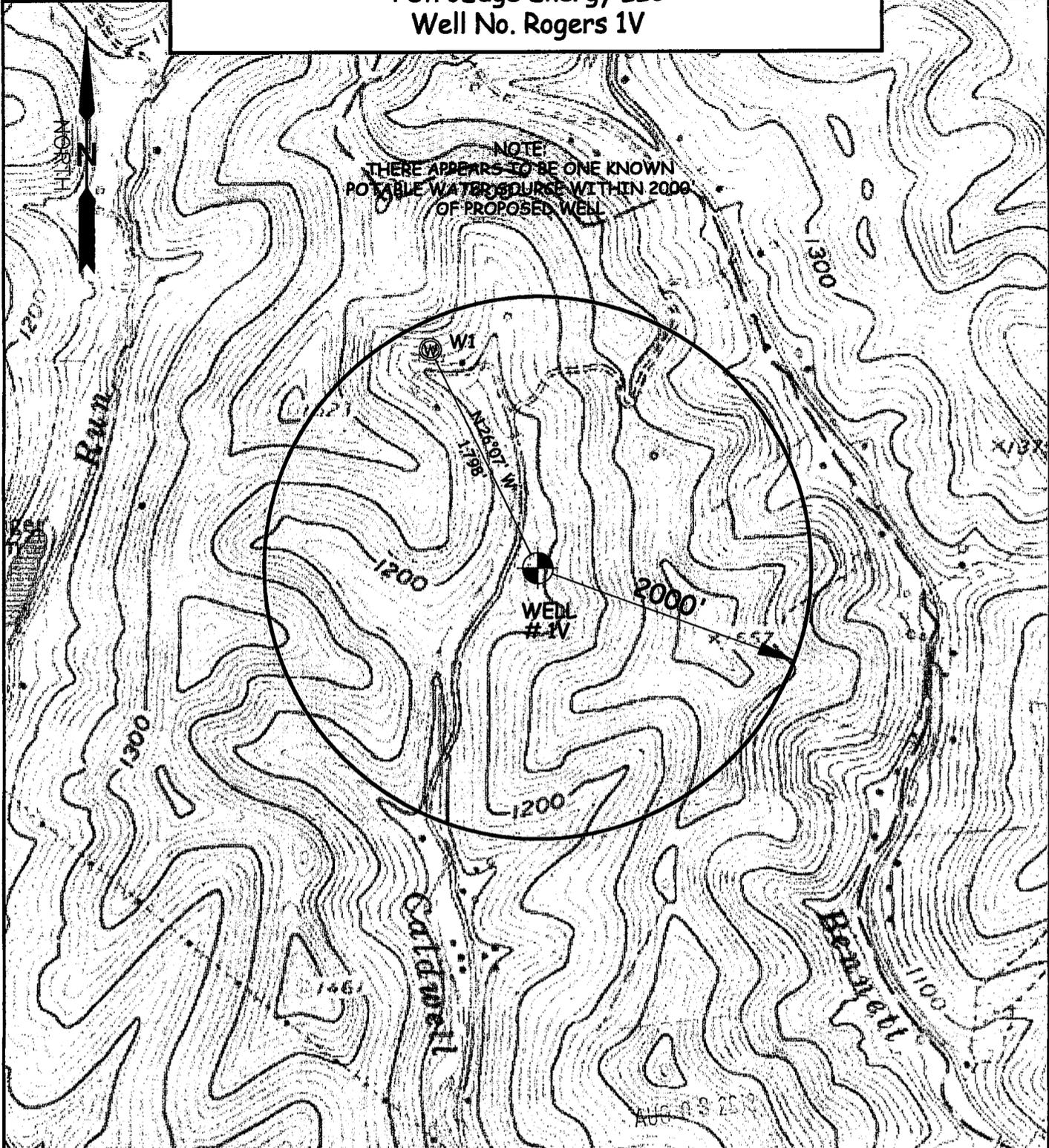


James Martin
Chief

Operator's Well No: ROGERS 1V
Farm Name: EDWARD ROGERS ET AL
API Well Number: 47-3305671
Permit Type: Vertical Well
Date Issued: 08/24/2012

Promoting a healthy environment.

PetroEdge Energy LLC Well No. Rogers 1V



WELL	SURFACE OWNER	ADDRESS
W1	Wayne C. Piggott, Jr.	1826 Caldwell Run Rd. Lumberport, WV 26386
WILLOW LAND SURVEYING PLLC P.O. BOX 17, PENNSBORO, WV 26415 (304) 659-1717		TOPO SECTION(S) OF : WALLACE 7.5' QUAD
DATE: 5/21/12	DRAWN BY: TBS	SCALE : 1-INCH = 1000-FEET 0' 1000' 2000' 3000'

PetroEdge Energy LLC Well No. Rogers 1V

NOTES:
WELL #1V INFORMATION:
 N: 329,426ft E: 1,734,551ft
 LAT: 39°24'02.4" LON: 80°26'21.7"
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE.
 ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:
WELL #1V INFORMATION:
 N: 4,361,399m E: 548,288m

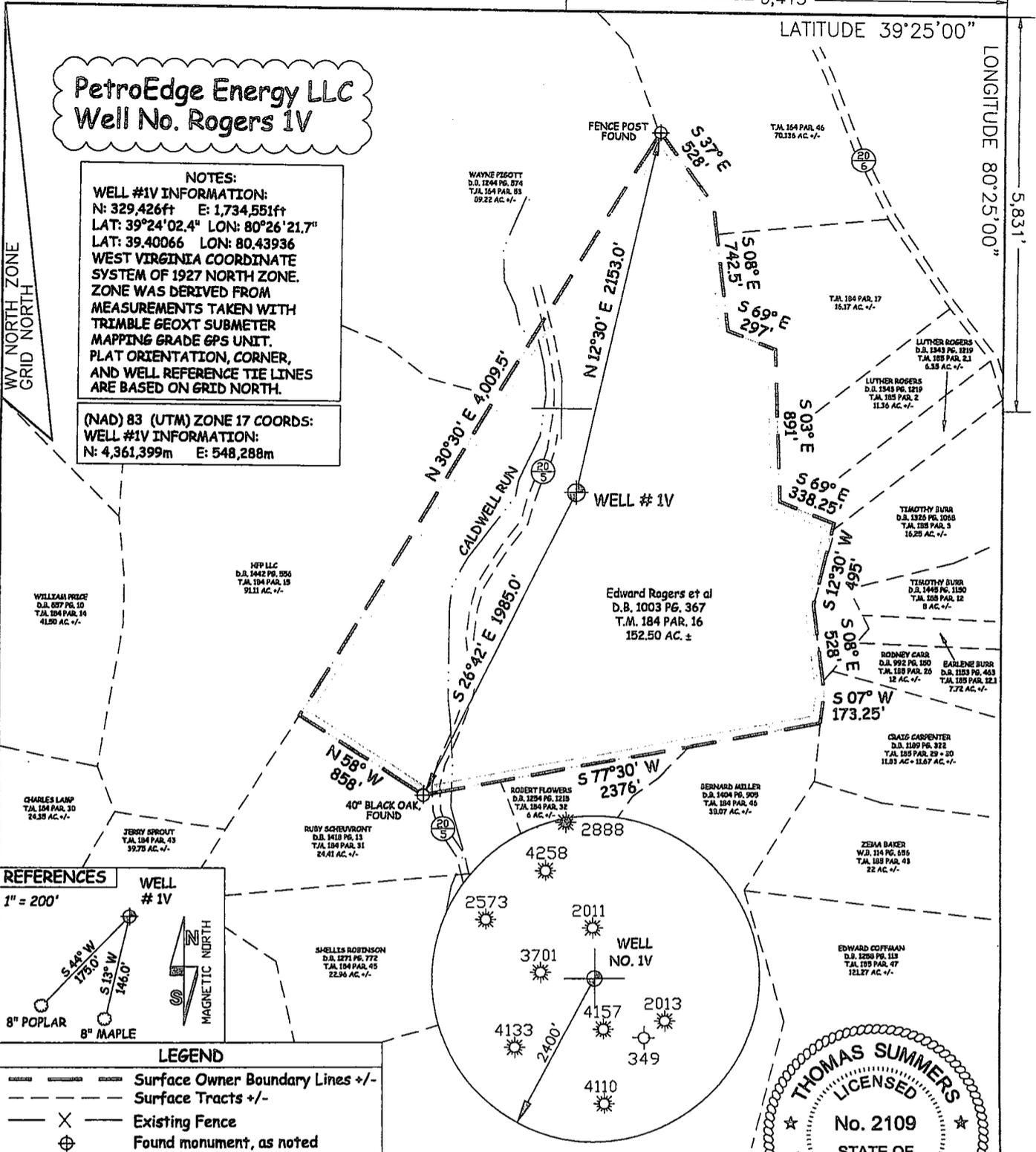
WV NORTH ZONE
GRID NORTH

6,413'

LATITUDE 39°25'00"

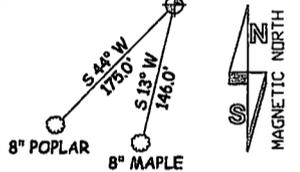
LONGITUDE 80°25'00"

5,831'



REFERENCES

1" = 200'



LEGEND

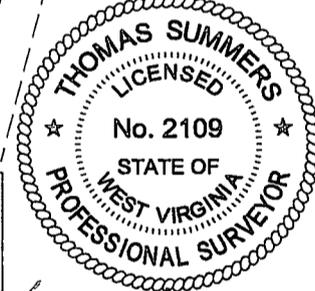
- Surface Owner Boundary Lines +/-
- - - Surface Tracts +/-
- X Existing Fence
- ⊕ Found monument, as noted

JOB # 12-028WP
 DRAWING # PETROROGERSP1V
 SCALE 1" = 800'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WILLOW LAND SURVEYING PLLC
 266 HUSHERS RUN RD PENNSBORO WEST VIRGINIA 26415



THOMAS SUMMERS P.S. 2109
 DATE 4/25/12

OPERATOR'S WELL # ROGERS # 1V
 API WELL # 47 - 033 - 05671

STATE COUNTY PERMIT

LOCATION: ELEVATION 1,193' WATERSHED CALDWELL RUN DISTRICT SARDIS COUNTY HARRISON

QUADRANGLE WALLACE 7.5'

SURFACE OWNER EDWARD ROGERS ET AL ACREAGE 154.40 ACRES +/-

OIL & GAS ROYALTY OWNER MARTHA ROGERS ET AL LEASE ACREAGE 155.00 AC

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

OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG & ABANDON CLEAN OUT & REPLUG ESTIMATED DEPTH 7,452' TD

TARGET FORMATION MARCELLUS

WELL OPERATOR PETROEDGE ENERGY LLC DESIGNATED AGENT DAN MULLINS

ADDRESS 2925 BRIARPARK DR. SUITE 150 HOUSTON, TX 77042 ADDRESS 4477 WILLIAMSTOWN PIKE WILLIAMSTOWN, WV 26187

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

August 22, 2012

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-6900140, issued to CHESAPEAKE APPALACHIA, L.L.C., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

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

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

James Martin
Chief

Operator's Well No: SEW TRUST OHI 206H

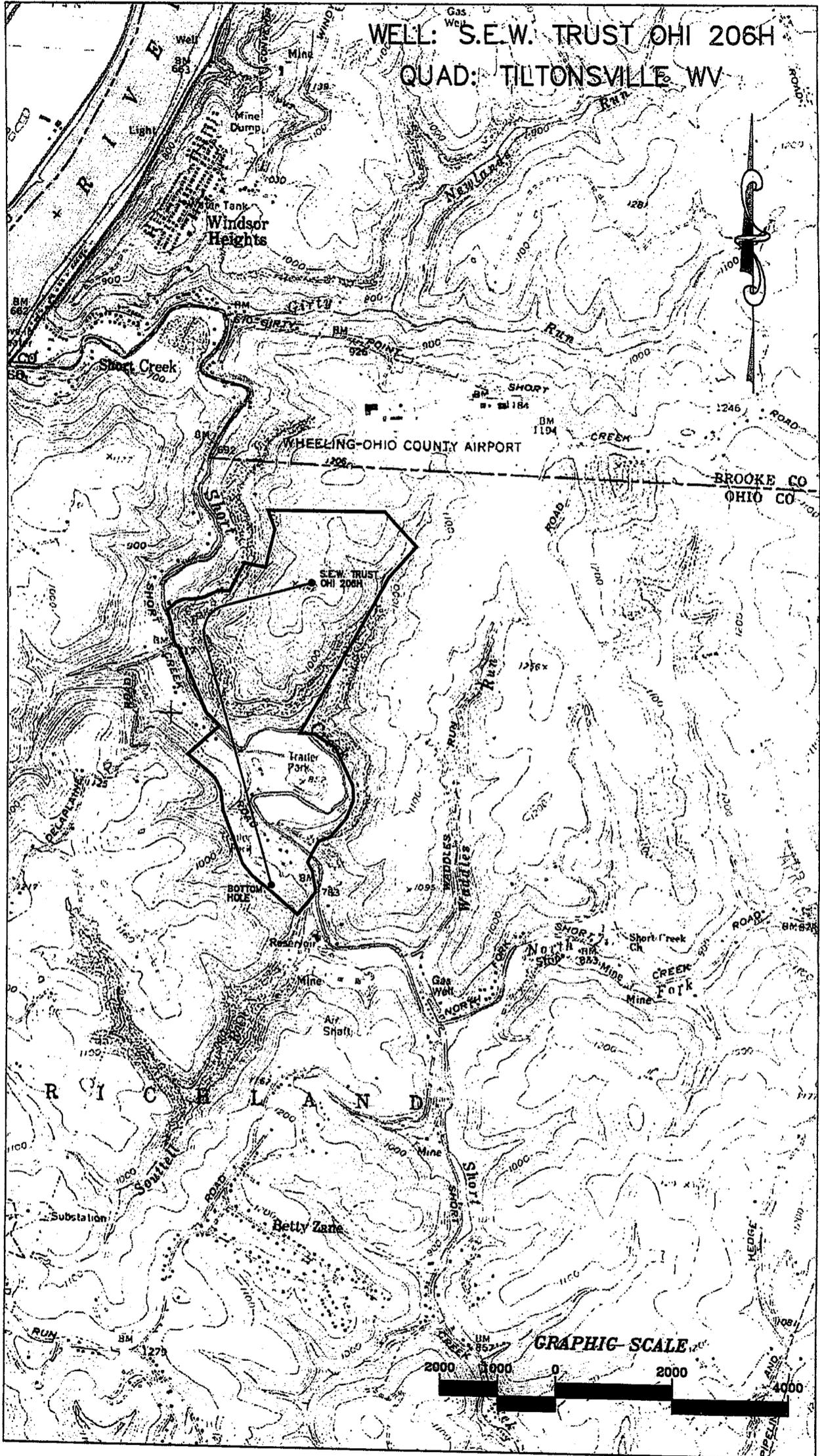
Farm Name: S.E.W. TRUST

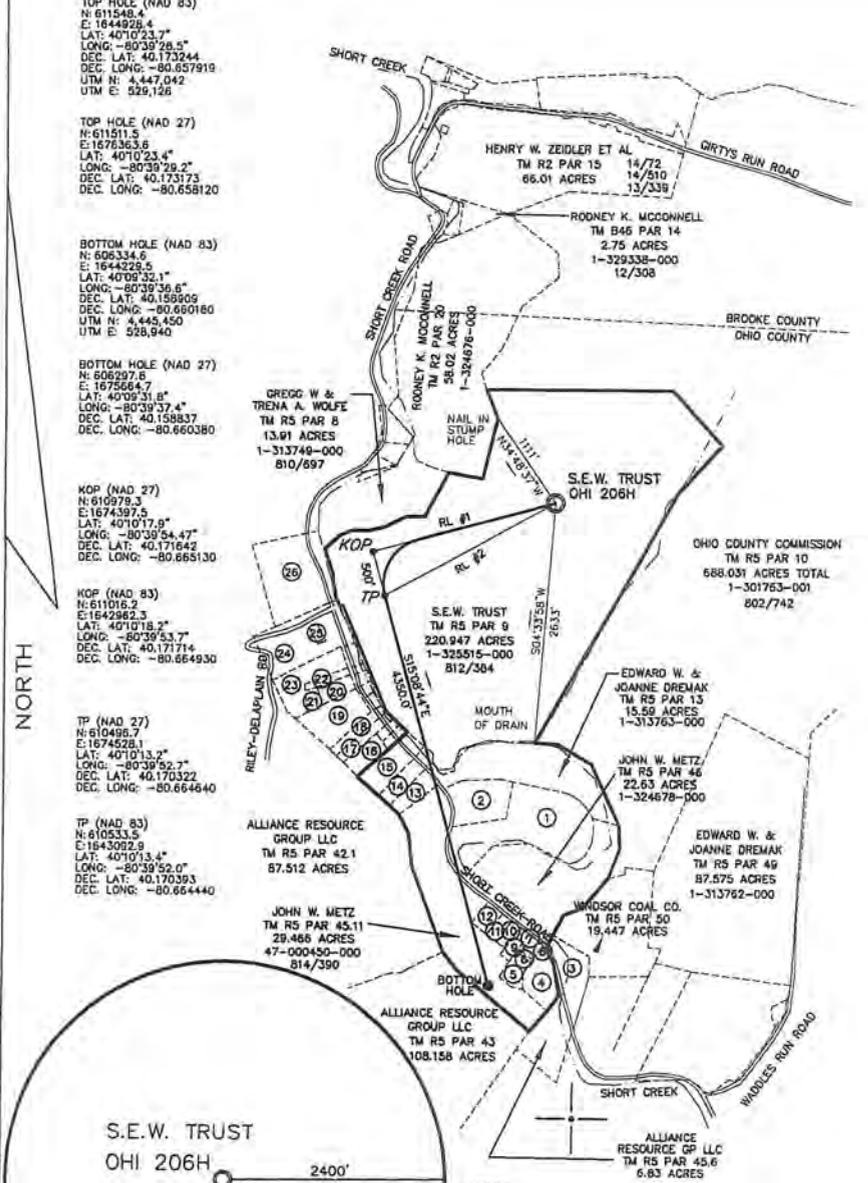
API Well Number: 47-6900140

Permit Type: Horizontal 6A Well

Date Issued: 08/22/2012

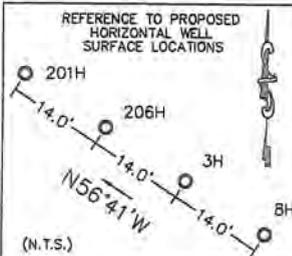
Promoting a healthy environment.





- ① KEVIN T. WOODFORD
TM RS PAR 47
15.59 ACRES
829/80
- ② PAUL K. YOUNG
TM RS PAR 48
6.8 ACRES
830/506
- ③ PAUL A. RUTTER
TM RS PAR 45.14
1.446 ACRES
- ④ TUNNEL RIDGE LLC
TM RS PAR 45.8
5.014 ACRES
- ⑤ EDWARD A. SMITH
TM RS PAR 45.7
1.548 ACRES
830/514
- ⑥ EDWARD A. SMITH
TM RS PAR 45.16
0.214 ACRES
830/514
- ⑦ CARL TIMPSON
TM RS PAR 45.18
0.244 ACRES
- ⑧ ROBERT KISH
TM RS PAR 45.15
1.082 ACRES
832/552
- ⑨ MARION S. PAVLIC
TM RS PAR 45
0.975 ACRES
- ⑩ DEBRA L. GARRISON
TM RS PAR 45.5
0.836 ACRES
832/563
- ⑪ JOHN W. METZ
TM RS PAR 45.3
0.969 ACRES
814/390
- ⑫ JOHN W. METZ
TM RS PAR 45.2
1.588 ACRES
814/390
- ⑬ ROBERTA M. CORNER
TM RS PAR 45.12
2.226 ACRES
1-328109-000
813/542
- ⑭ ADRIANNA HLEBICZKI
TM RS PAR 45.4
2.836 ACRES
1-329263-000
813/554
- ⑮ ADRIANNA HLEBICZKI
TM RS PAR 45.13
3.662 ACRES
1-329261-000
813/548
- ⑯ HELEN TAYLOR
TM RS PAR 12
2.62 ACRES
- ⑰ HUMPHREY D. FLICK JR.
TM RS PAR 15
1.64 ACRES
- ⑱ DALE A. MILLANI
TM RS PAR 16
1.63 ACRES
- ⑲ ROBERT N. CONNER
TM RS PAR 17
7.162 ACRES
- ⑳ JAMES A. MATHEWS
TM RS PAR 18
1.87 ACRES
- ㉑ JAMES A. MATHEWS
TM RS PAR 18.1
0.829 ACRES
- ㉒ ERVAN D. TRUBIANO
TM RS PAR 19
1.01 ACRES
813/534
- ㉓ BRIAN W. SOWZRAL
TM RS PAR 20.1
5.683 ACRES
810/135
- ㉔ VELMA L. TAGGART
TM RS PAR 20
2.341 ACRES
813/538
- ㉕ RYAN E. SPARKS
TM RS PAR 20.2
0.459 ACRES
- ㉖ HAROLD COAST
TM RS PAR 2.9
10.94 ACRES
829/783

REFERENCES LINES	
RL #1	S74°51'16"W 2036.86'
RL #2	S61°03'45"W 2097.33'



REFERENCES



- NOTES:
- TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WEST VIRGINIA STATE PLANE COORDINATE SYSTEM, NORTH ZONE NAD 27.
 - WELL LOCATION REFERENCES ARE BASED ON MAGNETIC MERIDIAN.
 - BOUNDARIES SHOWN HEREON DERIVED FROM DEEDS, TAX MAPS AND FIELD LOCATION AND ARE NOT INTENDED TO INFER A FULL BOUNDARY SURVEY.
 - SURFACE OWNERSHIP INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF OHIO & BROOKE COUNTIES IN JUNE 2011 THROUGH JANUARY 2012.
 - WELL COORDINATES ESTABLISHED BY SUBFOOT GPS UNIT.

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

FILE NO. 11-0167-762
 DRAWING NO. 206H
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 IN 2500
 PROVEN SOURCE OF ELEVATION GPS
SUBFOOT UNIT

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 (SIGNED) _____
 R.P.E. _____ P.S. _____



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



DATE FEBRUARY 10, 2012
 OPERATOR'S WELL NO. SEW TRUST OHI 206H
 API WELL NO. _____

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW X
 LOCATION: ELEVATION 1137.5' WATERSHED SHORT CREEK
 DISTRICT RICHLAND COUNTY OHIO
 QUADRANGLE TILTONVILLE

SURFACE OWNER S.E.W. TRUST ACREAGE 220.947 +/-
 OIL & GAS ROYALTY OWNER S.E.W. TRUST, ET AL LEASE ACREAGE 294 +/-
 LEASE NO. _____

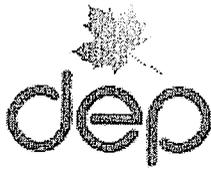
PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR
 STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW
 FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD: 5,800' TMD: 10,999'
 WELLOPERATOR CHESAPEAKE APPALACHIA, LLC DESIGNATED AGENT ERIC GILLESPIE
 ADDRESS PO BOX 18496, OKLAHOMA CITY, OK 73154-0496 ADDRESS PO BOX 6070, CHARLESTON, WV 25301

F:\JRM WW-B

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

August 22, 2012

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-3305639, issued to ANTERO RESOURCES APPALACHIAN CORPORATION, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

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

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

James Martin
Chief

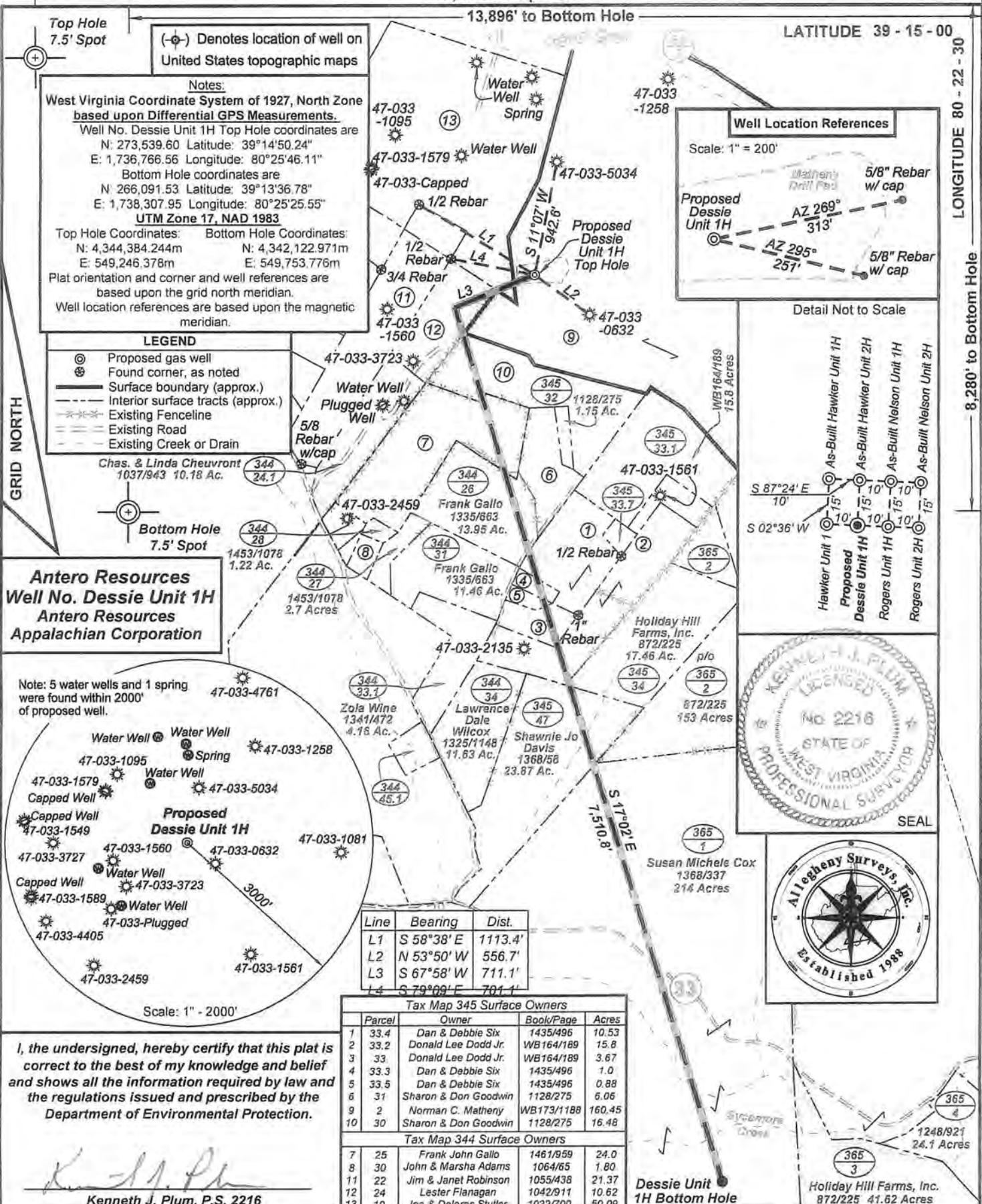
Operator's Well No: DESSIE UNIT 1H
Farm Name: MATHENY, NORMAN C.

API Well Number: 47-3305639

Permit Type: Horizontal 6A Well

Date Issued: 08/22/2012

Promoting a healthy environment.



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.

Kenneth J. Plum
 Kenneth J. Plum, P.S. 2216

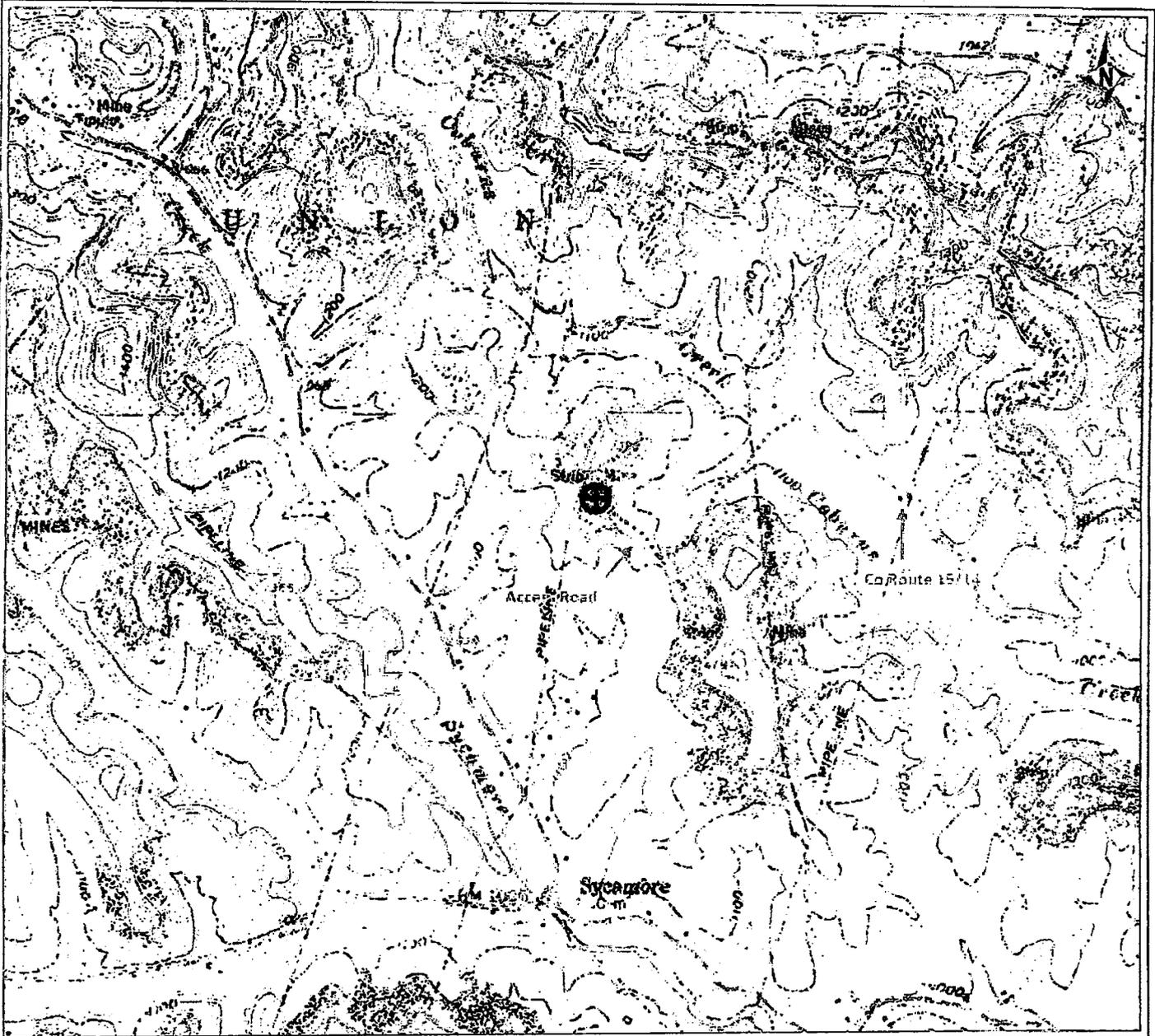
FILE NO: 278-36-U-11
 DRAWING NO: 278-11_Dessie Unit 1H
 SCALE: 1" = 1000'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT Bridgeport, WV

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

DATE: April 11 20 12
 OPERATOR'S WELL # Dessie Unit 1H
 API WELL NO: 47 - 033 5639 H6A
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: 1275' WATERSHED West Fork River
 QUADRANGLE: West Milford DISTRICT: Union Clara B. Lanham, et al W. Brent Maxwell, et ux
 SURFACE OWNER: Norman C. Matheny Clarence M. & Ruth D. Rogers; E. B. Maxwell, et al; Edwin Maxwell DV014270 COUNTY: Harrison 217; 25
 OIL AND GAS ROYALTY OWNER: Nelson Robinson, et ux & Cora L. Robinson; Frank J. Gallo LEASE NO: 52915; 52887; DV016861 ACREAGE: 160.45 36; 1208
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 16,000' MD 7,200' TVD

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



PETRA 2/27/2012 11:20:18 AM

Antero Resources Corporation

APPALACHIAN BASIN

Dessie Unit 1H

Harrison County

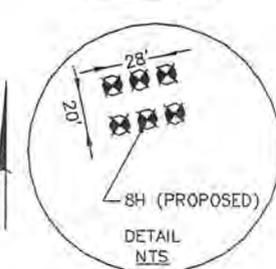
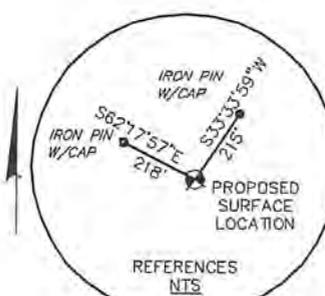
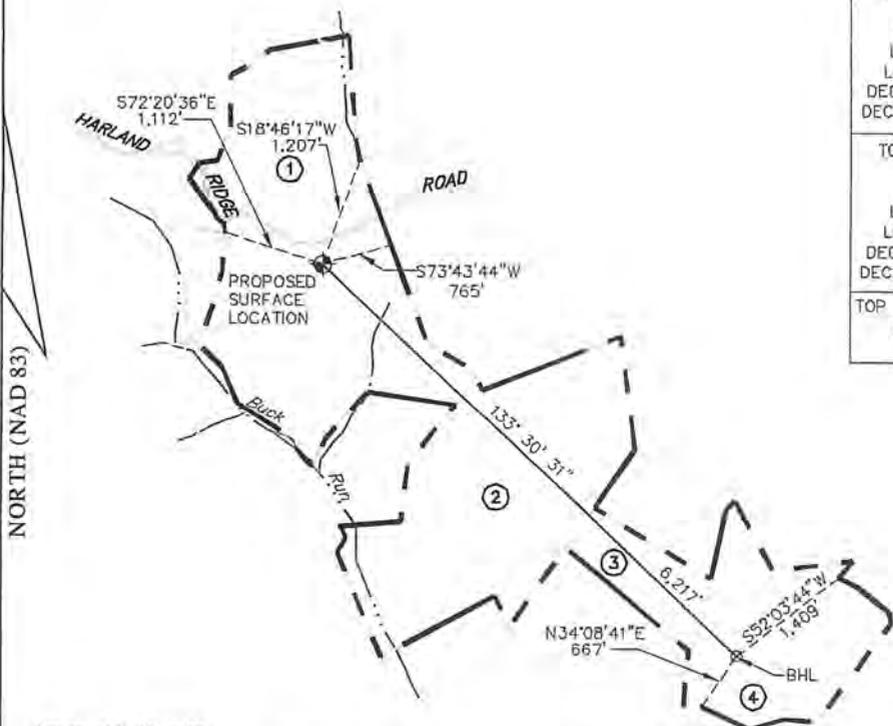
REMARKS

QUADRANGLE: WOLF SUMMIT
 WATERSHED: WEST FORK
 DISTRICT: UNION



February 27, 2012

TOP HOLE (NAD 83) N) 426,784.1 E) 1,638,230.6 LAT.) 39°39'57.0" LONG.) 80°40'23.7" DEC. LAT.) 39.665824° DEC. LONG.) 80.673251°	BOTTOM HOLE (NAD 83) N) 422,503.8 E) 1,642,739.9 LAT.) 39°39'15.2" LONG.) 80°39'25.3" DEC. LAT.) 39.654235° DEC. LONG.) 80.657038°
TOP HOLE (NAD 27) N) 426,747.4 E) 1,669,668.9 LAT.) 39°39'56.7" LONG.) 80°40'24.4" DEC. LAT.) 39.665744° DEC. LONG.) 80.673438°	BOTTOM HOLE (NAD 27) N) 422,467.0 E) 1,674,178.2 LAT.) 39°39'15.0" LONG.) 80°39'26.0" DEC. LAT.) 39.654154° DEC. LONG.) 80.657228°
TOP HOLE UTM (NAD 83) N) 4,390,719.1m E) 528,026.7m	BOTTOM HOLE UTM (NAD 83) N) 4,389,438.0m E) 529,422.3m

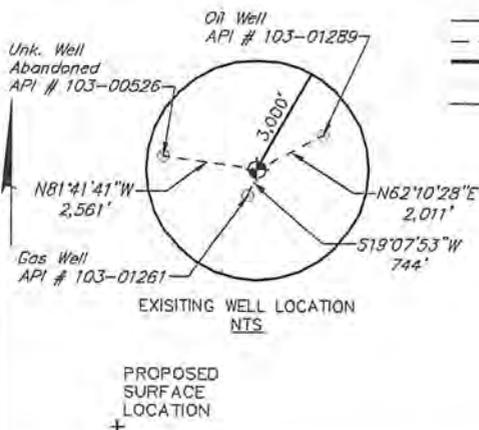


GENERAL NOTES:

1. THE BOUNDARY LINES SHOWN HEREON ARE BASED ON RECORD DEED, PLATS, AND TAX MAPS BEST FIT TO FOUND FIELD EVIDENCE AND AERIAL PHOTOS.
2. THIS PLAT DOES NOT REPRESENT AN ACTUAL BOUNDARY SURVEY OF THE INDIVIDUAL PARCELS.

LEGEND

- PROPOSED GAS WELL
- PROPOSED BORE
- PROPERTY TIE LINE
- OIL & GAS LEASE BOUNDARY
- PROPERTY LINE
- STREAM LINE



TRACT	N/F PROPERTY OWNER / LESSOR	PARCEL NUMBER	LEASE NUMBER
1	RIDGETOP CAPITAL, LP	12-14-00250000	WV0000105-000
2	ROBERT LEE CECIL	12-15-00330000	WV0000133-000
3	DANIEL & JUDY K. PASTILONG	01-09-00070000	WV0000124-001 WV0000124-002
4	EDWARD NOEL MELLOTT, HRS	01-09-00060000	1-344194-001 1-344194-002 1-344194-003 1-344194-004 1-344194-005

FILE #: 10-08541-579
 DRAWING #: 10-08541-579_WELL PLAT
 SCALE: 1" = 2,000'
 MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING 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: *Craig Robert*
 R.P.E.: _____ L.L.S.: 2241



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



DATE: 3/23/12 MARCH 23, 2012
 OPERATOR'S WELL #: RIDGETOP LAND VENTURES WTZ 8H
 API WELL #: 47 103 02780 HGA
 STATE COUNTY PERMIT

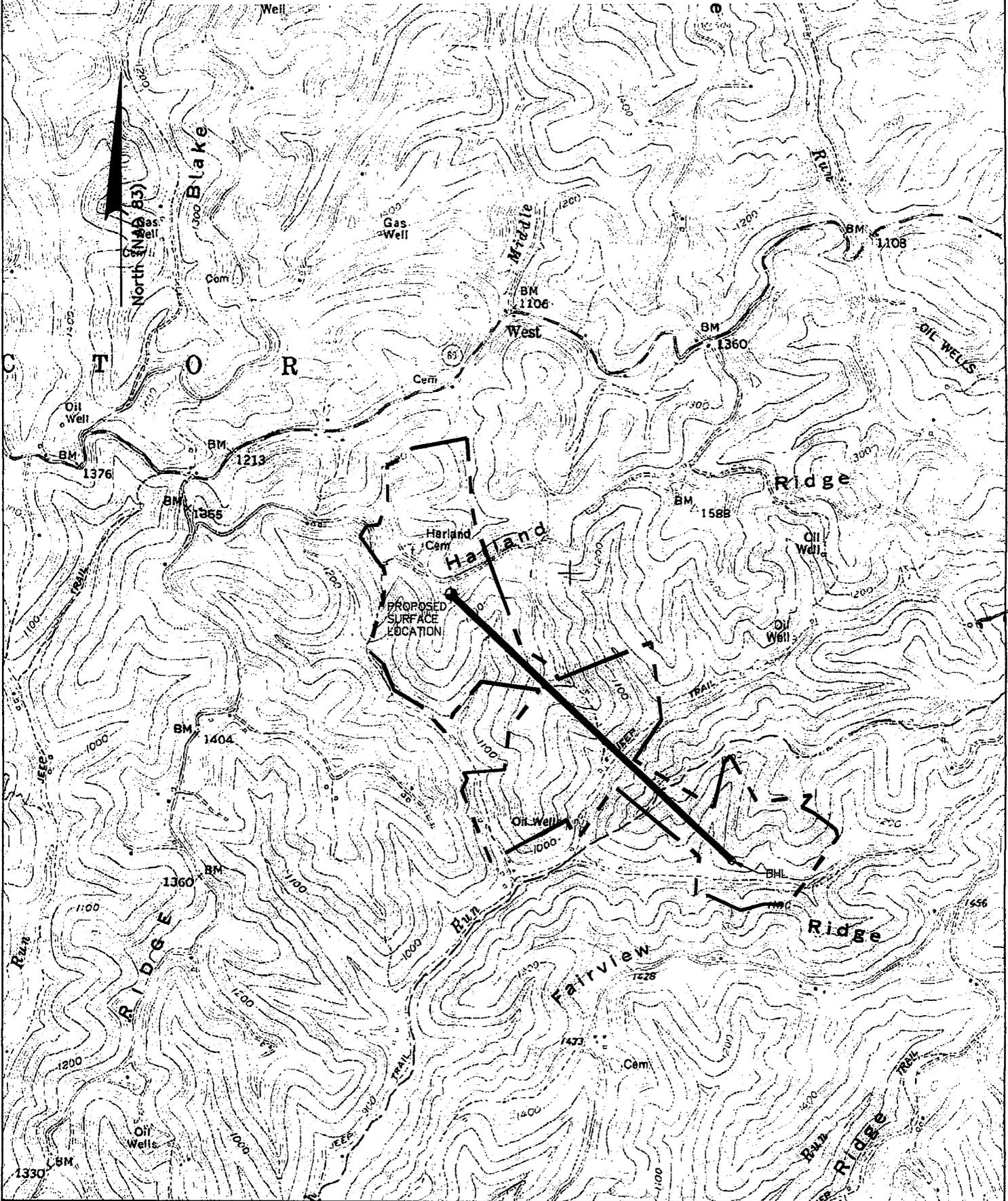
WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP
 GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: MIDDLE OHIO NORTH ELEVATION: 1,450'
 COUNTY/DISTRICT: WETZEL / PROCTOR QUADRANGLE: WILEVILLE
 SURFACE OWNER: RIDGETOP CAPITAL, LP ACREAGE: 175 ±
 OIL & GAS ROYALTY OWNER: ACREAGE:

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: TMD: 13,238' TVD: 7,290'
 WELL OPERATOR: CHESAPEAKE APPALACHIA, LLC DESIGNATED AGENT: ERIC B. GILLESPIE
 ADDRESS: P.O. BOX 18496 ADDRESS: P.O. BOX 6070
 CITY: OKLAHOMA CITY STATE: OK ZIP CODE: 73154-0496 CITY: CHARLESTON STATE: WV ZIP CODE: 25362

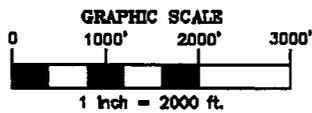
WELL: RIDGETOP LAND VENTURES WTZ 8H QUAD: WILEYVILLE



NOTE:
THE PURPOSE OF THIS PLAT IS FOR THE LOCATION OF PROPOSED GAS WELLS AND DOES NOT REPRESENT A CLOSED BOUNDARY SURVEY. PROPERTY LINES AND OWNERS WERE OBTAINED FROM VARIOUS FIELD EVIDENCE, TAX RECORDS AND AERIAL MAPPING.

LEGEND

-  PROPOSED GAS WELL
-  BOTTOM HOLE LOCATION
-  PROPOSED BORE
-  EXTERNAL LEASE LINE



TOP HOLE (NAD 83) N) 426,784.1 E) 1,638,230.6 LAT.) 39°39'57.0" LONG.) 80°40'23.7" DEC. LAT.) 39.665824° DEC. LONG.) 80.673251°	BOTTOM HOLE (NAD 83) N) 422,503.8 E) 1,642,739.9 LAT.) 39°39'15.2" LONG.) 80°39'25.3" DEC. LAT.) 39.654235° DEC. LONG.) 80.657038°
TOP HOLE (NAD 27) N) 426,747.4 E) 1,669,668.9 LAT.) 39°39'56.7" LONG.) 80°40'24.4" DEC. LAT.) 39.665744° DEC. LONG.) 80.673438°	BOTTOM HOLE (NAD 27) N) 422,467.0 E) 1,674,178.2 LAT.) 39°39'15.0" LONG.) 80°39'26.0" DEC. LAT.) 39.654154° DEC. LONG.) 80.657226°
TOP HOLE UTM (NAD 83) N) 4,390,719.1m E) 528,026.7m	BOTTOM HOLE UTM (NAD 83) N) 4,389,438.0m E) 529,422.3m

Applicant / Well Operator Name CHESAPEAKE APPALACHIA, LLC	Well (Farm) Name RIDGETOP LAND VENTURES WTZ	Well # BH	Serial #
Address PO BOX 18496 OKLAHOMA CITY, OK 73154-0496	County - Code WETZEL - 103	District PROCTOR	
Surface Landowner / Lessor RIDGETOP CAPITAL, LP	USGS 7 1/2 Quadrangle Map Name WILEYVILLE		



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

August 20, 2012

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-10302780, issued to CHESAPEAKE APPALACHIA, L.L.C., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

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

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

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

James Martin
Chief

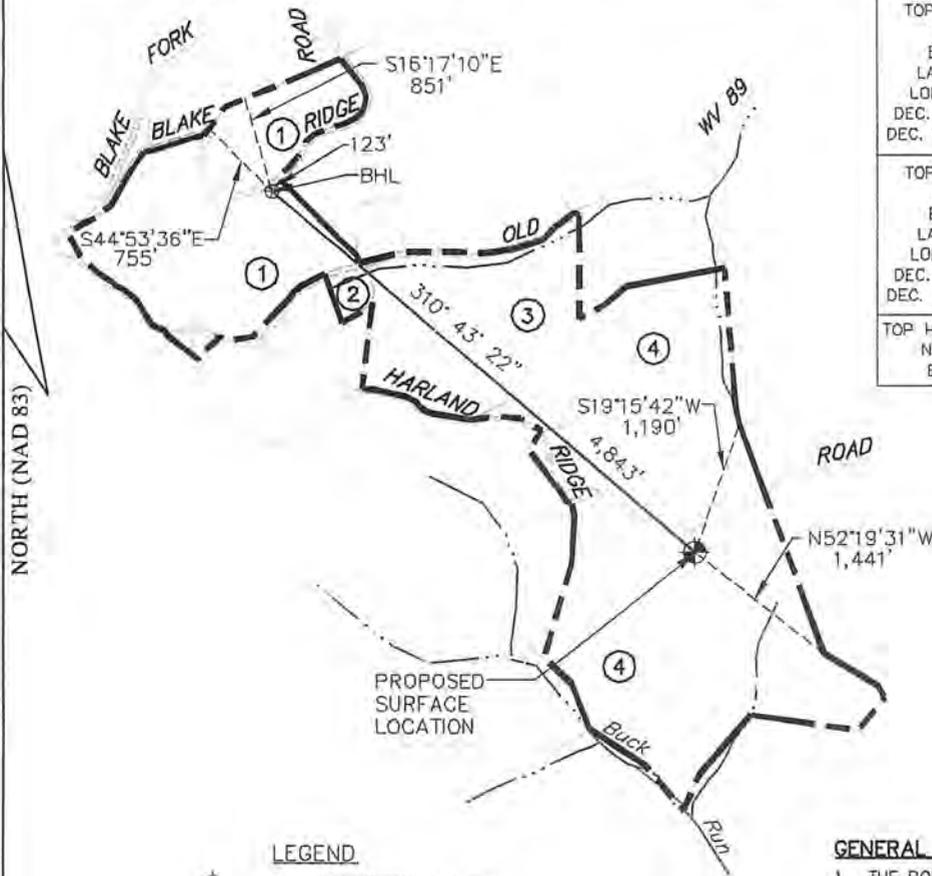
Operator's Well No: RIDGETOP LAND VENTURES W
Farm Name: RIDGETOP CAPITAL, LP

API Well Number: 47-10302780

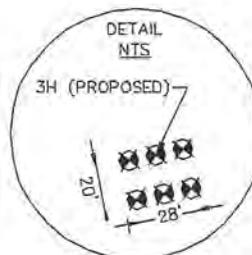
Permit Type: Horizontal 6A Well

Date Issued: 08/20/2012

Promoting a healthy environment.



TOP HOLE (NAD 83) N) 426,803.7 E) 1,638,226.5 LAT.) 39°39'57.2" LONG.) 80°40'23.8" DEC. LAT.) 39.665878° DEC. LONG.) 80.673266°	BOTTOM HOLE (NAD 83) N) 429,963.5 E) 1,634,555.9 LAT.) 39°40'27.9" LONG.) 80°41'11.2" DEC. LAT.) 39.674420° DEC. LONG.) 80.686453°
TOP HOLE (NAD 27) N) 426,767.0 E) 1,669,664.8 LAT.) 39°39'56.9" LONG.) 80°40'24.4" DEC. LAT.) 39.665798° DEC. LONG.) 80.673454°	BOTTOM HOLE (NAD 27) N) 429,926.9 E) 1,665,994.1 LAT.) 39°40'27.6" LONG.) 80°41'11.9" DEC. LAT.) 39.674340° DEC. LONG.) 80.686640°
TOP HOLE UTM (NAD 83) N) 4,390,725.0m E) 528,025.4m	BOTTOM HOLE UTM (NAD 83) N) 4,391,669.0m E) 526,891.0m

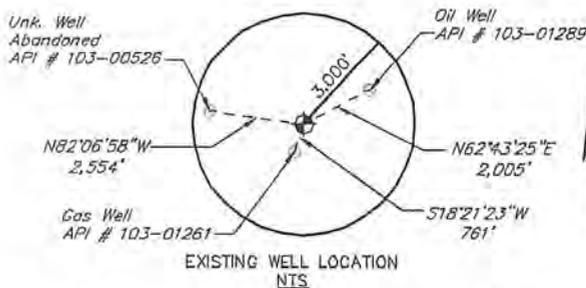
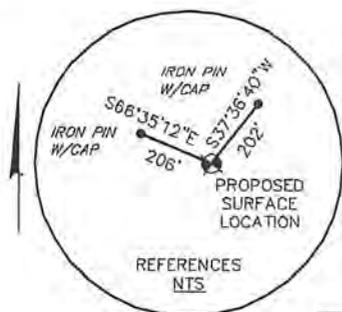


LEGEND

- PROPOSED GAS WELL
- PROPOSED BORE
- PROPERTY TIE LINE
- OIL & GAS LEASE BOUNDARY
- PROPERTY LINE
- STREAM LINE

GENERAL NOTES:

1. THE BOUNDARY LINES SHOWN HEREON ARE BASED ON RECORD DEED, PLATS, AND TAX MAPS BEST FIT TO FOUND FIELD EVIDENCE AND AERIAL PHOTOS.
2. THIS PLAT DOES NOT REPRESENT AN ACTUAL BOUNDARY SURVEY OF THE INDIVIDUAL PARCELS.

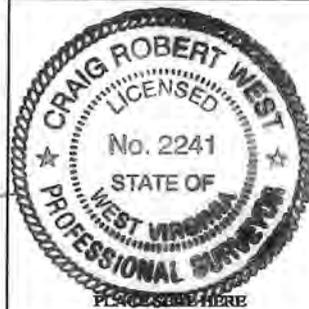


TRACT	N/E PROPERTY OWNER/LESSOR	PARCEL NUMBER	LEASE NUMBER
1	JAMES P. & KAREN J. MESSENGER	12-14-00130000	1-251298-000
2	SHERAL ALAN YOCUM	12-14-00220004	1-268841-000
3	JAMES & JORETTA RITCHEA	12-14-00040000	WV0000150-001
4	RIDGETOP CAPITAL, LP	12-14-00250000	WV0000105-000

FILE #: 10-08541-579
 DRAWING #: 10-08541-579_WELL PLAT
 SCALE: 1" = 1,600'
 MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

SIGNED:
 R.P.R.: _____ L.L.S.: 2241



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



DATE: 3/23/12 MARCH 23, 2012
 OPERATOR'S WELL #: RIDGETOP LAND VENTURES WIZ 3H
 API WELL #: 47 103 02774H0A
 STATE COUNTY PERMIT

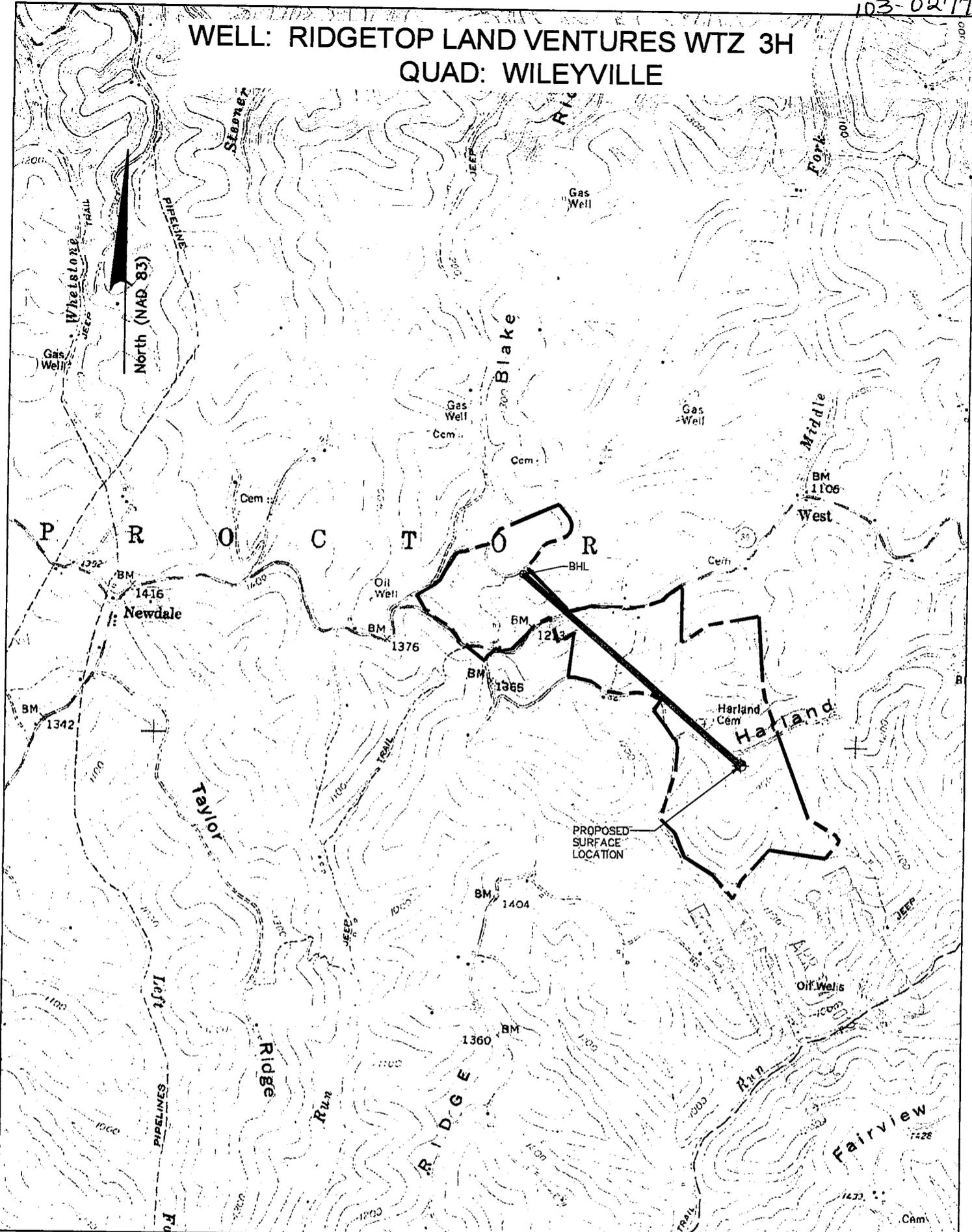
WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP
 GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: MIDDLE OHIO NORTH ELEVATION: 1,450'
 COUNTY/DISTRICT: WETZEL / PROCTOR QUADRANGLE: WILEVILLE
 SURFACE OWNER: RIDGETOP CAPITAL, LP ACREAGE: 175 ±
 OIL & GAS ROYALTY OWNER: ACREAGE:

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: TMD: 11,982' TVD: 7,334'
 WELL OPERATOR: CHESAPEAKE APPALACHIA, LLC DESIGNATED AGENT: ERIC B. GILLESPIE
 ADDRESS: P.O. BOX 18496 ADDRESS: P.O. BOX 6070
 CITY: OKLAHOMA CITY STATE: OK ZIP CODE: 73154-0496 CITY: CHARLESTON STATE: WV ZIP CODE: 25362

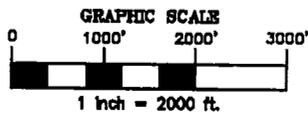
WELL: RIDGETOP LAND VENTURES WTZ 3H
 QUAD: WILEYVILLE



LEGEND

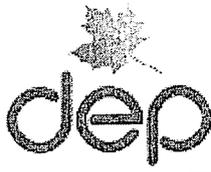
- PROPOSED GAS WELL
- BOTTOM HOLE LOCATION
- PROPOSED BORE
- EXTERNAL LEASE LINE

NOTE:
 THE PURPOSE OF THIS PLAT IS FOR THE LOCATION OF PROPOSED GAS
 WELLS AND DOES NOT REPRESENT A CLOSED BOUNDARY SURVEY.
 PROPERTY LINES AND OWNERS WERE OBTAINED FROM VARIOUS FIELD
 EVIDENCE, TAX RECORDS AND AERIAL MAPPING.



TOP HOLE (NAD 83) N) 426,803.7 E) 1,638,226.5 LAT.) 39°39'57.2" LONG.) 80°40'23.8" DEC. LAT.) 39.665878° DEC. LONG.) 80.673266°	BOTTOM HOLE (NAD 83) N) 429,963.5 E) 1,634,555.9 LAT.) 39°40'27.9" LONG.) 80°41'11.2" DEC. LAT.) 39.674420° DEC. LONG.) 80.688453°
TOP HOLE (NAD 27) N) 426,767.0 E) 1,659,664.8 LAT.) 39°39'56.9" LONG.) 80°40'24.4" DEC. LAT.) 39.665798° DEC. LONG.) 80.673454°	BOTTOM HOLE (NAD 27) N) 429,926.9 E) 1,665,994.1 LAT.) 39°40'27.6" LONG.) 80°41'11.9" DEC. LAT.) 39.674340° DEC. LONG.) 80.686640°
TOP HOLE UTM (NAD 83) N) 4,390,725.0m E) 528,025.4m	BOTTOM HOLE UTM (NAD 83) N) 4,391,669.0m E) 526,891.0m

Applicant / Well Operator Name CHESAPEAKE APPALACHIA, LLC	Well (Farm) Name RIDGETOP LAND VENTURES WTZ	Well # 3H	Serial #
Address PO BOX 15486 OKLAHOMA CITY, OK 73154-0486	County - Code WETZEL - 103	District PROCTOR	
Surface Landowner / Lessor RIDGETOP CAPITAL, LP	USGS 7 1/2 Quadrangle Map Name WILEYVILLE		



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

August 20, 2012

WELL WORK PERMIT

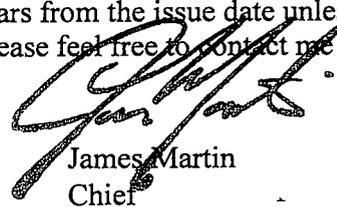
Horizontal 6A Well

This permit, API Well Number: 47-10302779, issued to CHESAPEAKE APPALACHIA, L.L.C., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

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

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



James Martin
Chief

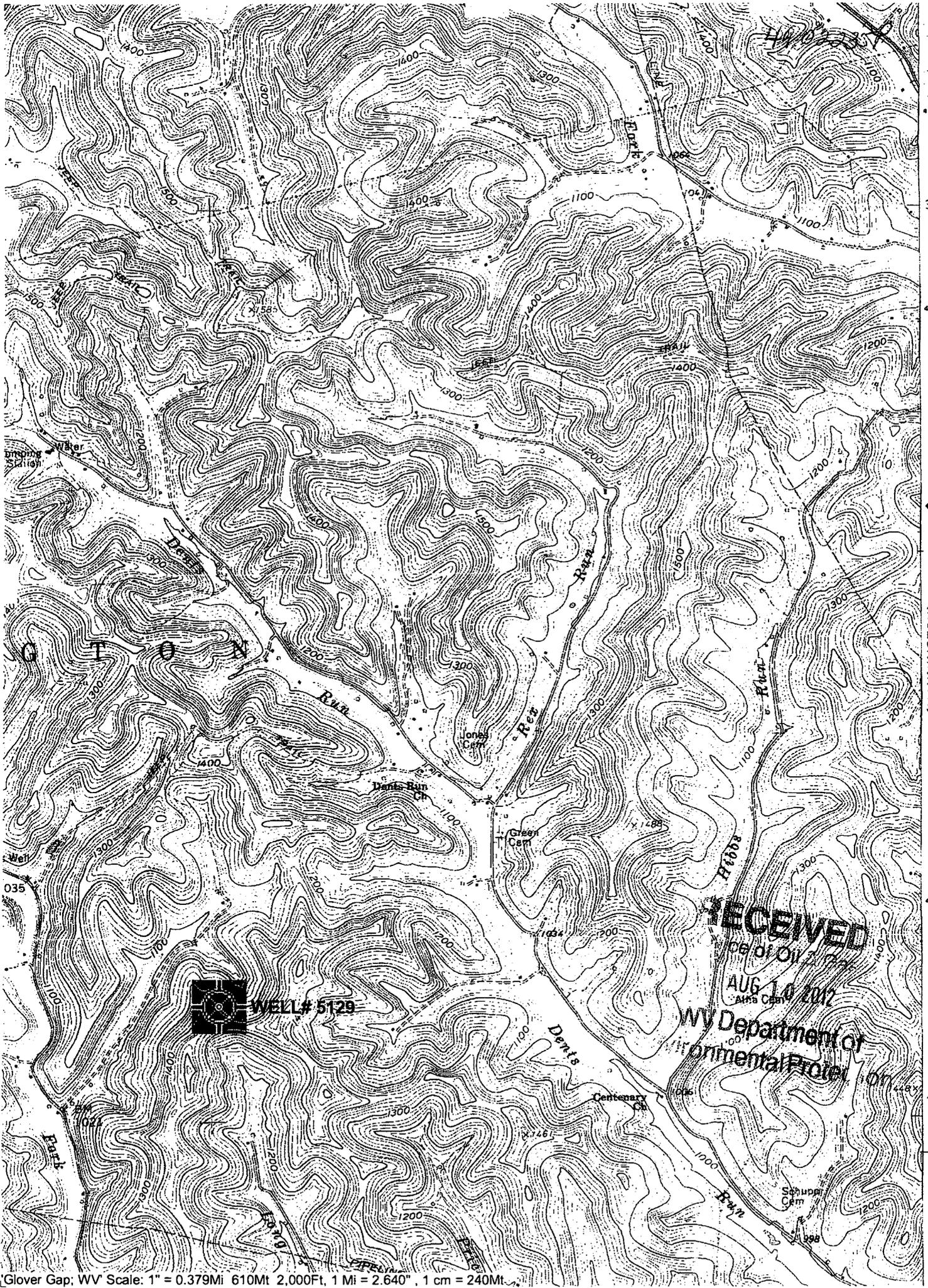
Operator's Well No: RIDGETOP LAND VENTURES W
Farm Name: RIDGETOP CAPITAL, LP

API Well Number: 47-10302779

Permit Type: Horizontal 6A Well

Date Issued: 08/20/2012

Promoting a healthy environment.



4382
35'
4381
4380
4378
4377
32'30"

(MANNINGTON)
4963 III SE

RECEIVED
Office of Oil & Gas
AUG 14 2012
WV Department of Environmental Protection

WELL# 5129

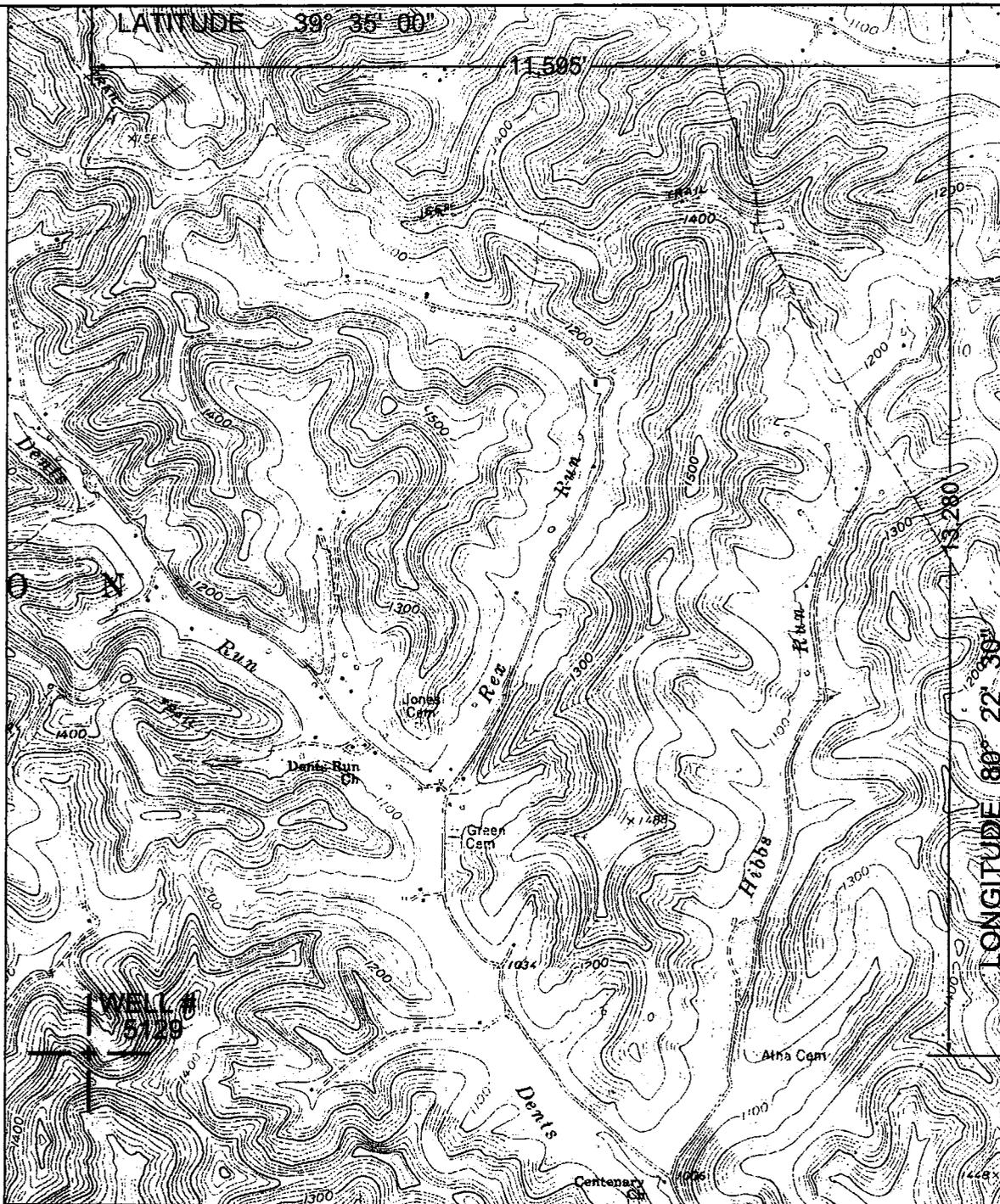
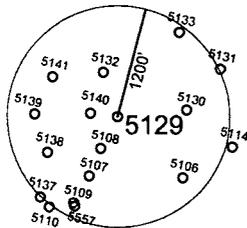
Glover Gap, WV Scale: 1" = 0.379Mi 610Mt 2,000Ft, 1 Mi = 2.640" , 1 cm = 240Mt

LATITUDE 39° 35' 00"

11 505'

NORTH

SURROUNDING WELLS WITHIN 1200' RADIUS



LONGITUDE 80° 22' 30"

UTM ZONE 17N NAD83 CONUS	LAT/LONG NAD27 CONUS
NORTHING 4,377,631 METERS	39° 32' 48.7" N
EASTING 550,180 METERS	80° 24' 58.3" 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 AUGUST 7, 2012
 OPERATORS WELL NO. 5129
 API WELL NO. 47 - 49 - 022357
 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: 1400.30' WATERSHED: BARTHOLOMEW FORK OF BUFFALO CREEK
 DISTRICT: MANNINGTON COUNTY: MARION QUADRANGLE: GLOVER GAP, WV 7.5'
 SURFACE OWNER: JEFFREY MICHAEL ACREAGE: 79± 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: _____

COUNTY NAME

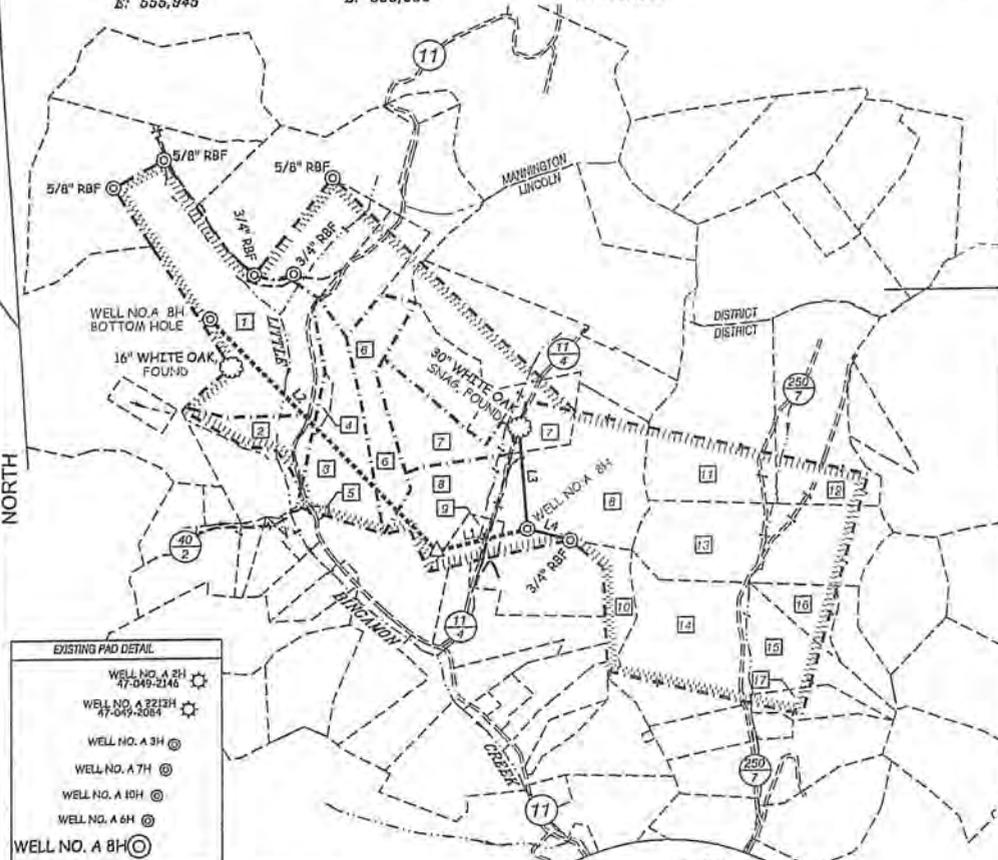
PERMIT

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

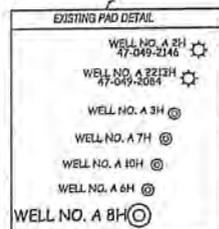
WELL NO. A 8H STATE PLANE COORDINATES NORTH ZONE (NAD 27)	LANDING POINT WELL NO. A 8H STATE PLANE COORDINATES NORTH ZONE (NAD 27)	BOTTOM HOLE WELL NO. A 8H STATE PLANE COORDINATES NORTH ZONE (NAD 27)
N. 360,020 E. 1,760,196	N. 369,902 E. 1,759,223	N. 362,401 E. 1,756,781
LAT=(N) 39.48535 LONG=(W) 80.34964	LAT=(N) 39.48473 LONG=(W) 80.35308	LAT=(N) 39.49180 LONG=(W) 80.36182
UTM (NAD'83) N: 4,370,860 E: 555,945	UTM (NAD'83) N: 4,370,779 E: 555,650	UTM (NAD'83) N: 4,371,559 E: 554,893

ZOGOL UNIT WELL NO. A 8H

LINE	BEARING	DISTANCE
L1	S 77°21' W	996.88'
L2	N 43°13' W	3565.92'
L3	N 04°03' W	1138.20'
L4	S 73°07' E	480.17'

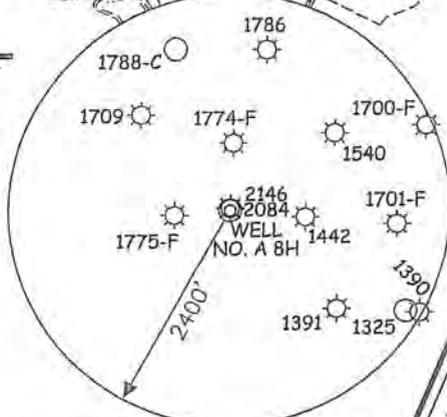


TRACT NO.	SURFACE OWNER	ACREAGE
1	HENRY O. DESNOS, JR. ET AL	62.27 AC±
2	JOHN D. FIEBIG	8.55 AC±
3	COLLETTE L. SMITH, ESTATE	28.12 AC±
4	DORA M. EVANS	1.55 AC±
5	DAVID M. HAMRICK ET AL	0.44 AC±
6	LARRY L. SMITH ET AL	38.15 AC±
7	GARY L. GRUBB ET AL	25.228 AC±
8	JOHN A. ZOGOL ET AL	61.61 AC±
9	ROCHESTER & PITTSBURGH COAL COMPANY	6.20 AC±
10	L. KROUSER OR SUCCESSORS IN TITLE	9 AC. & 78 POLES±
11	NEVA KAY NEDLEY ET AL	51.62 AC±
12	NEVA KAY NEDLEY ET AL	49.94 AC±
13	JAQUELINE K. HENDERSON	30 AC±
14	WM. CLAY ANDERSON ET AL	46.58 AC±
15	WM. CLAY ANDERSON ET AL	25.37 AC±
16	ELEANOR J. HALDEMAN ET AL	8.5 AC±
17	WM. CLAY ANDERSON ET AL	10 AC±

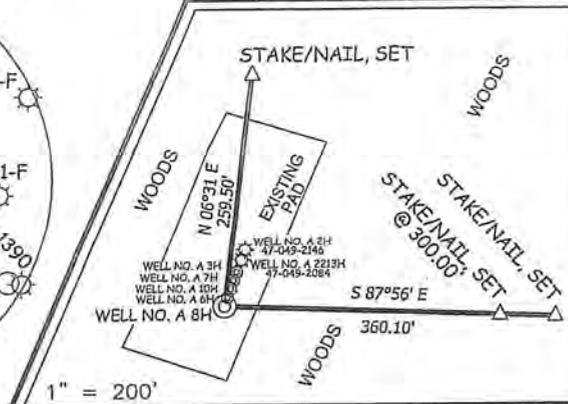


NOTES ON SURVEY

1. TIES TO WELLS, REFERENCES, AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
2. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF MARION COUNTY IN JULY, 2011.
3. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SURVEY GRADE).
4. THIS WELL PERMIT PLAT DOES NOT REPRESENT THE FINAL UNIT BOUNDARY FOR THIS WELL.



REFERENCES



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE NOVEMBER 03, 20 11
 UPDATED MARCH 01, 20 12
 OPERATORS WELL NO. ZOGOL UNIT A 8H
 API WELL NO. 47 - 49 - 02217 H 54
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 7226-1P8HR2 (287-39)
 PROVEN SOURCE OF ELEVATION DGPS (SURVEY GRADE) SCALE 1" = 2000'

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 1,232' WATERSHED TRIBUTARY OF LITTLE BINGAMON CREEK
 DISTRICT LINCOLN COUNTY MARION QUADRANGLE SHINNSTON 7.5'

SURFACE OWNER JOHN A. & REBECCA J. ZOGOL ACREAGE 61.61±
 ROYALTY OWNER JOHN ZOGOL ET AL ACREAGE 465.7±
 LEASE NO. _____

PROPOSED WORK:
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
 ESTIMATED DEPTH 7,600' (TOTAL VERTICAL DEPTH)

WELL OPERATOR XTO ENERGY DESIGNATED AGENT GARY BEALL
 ADDRESS P.O. BOX 1008 ADDRESS JANE LEW, WV 26378
JANE LEW, WV 26378

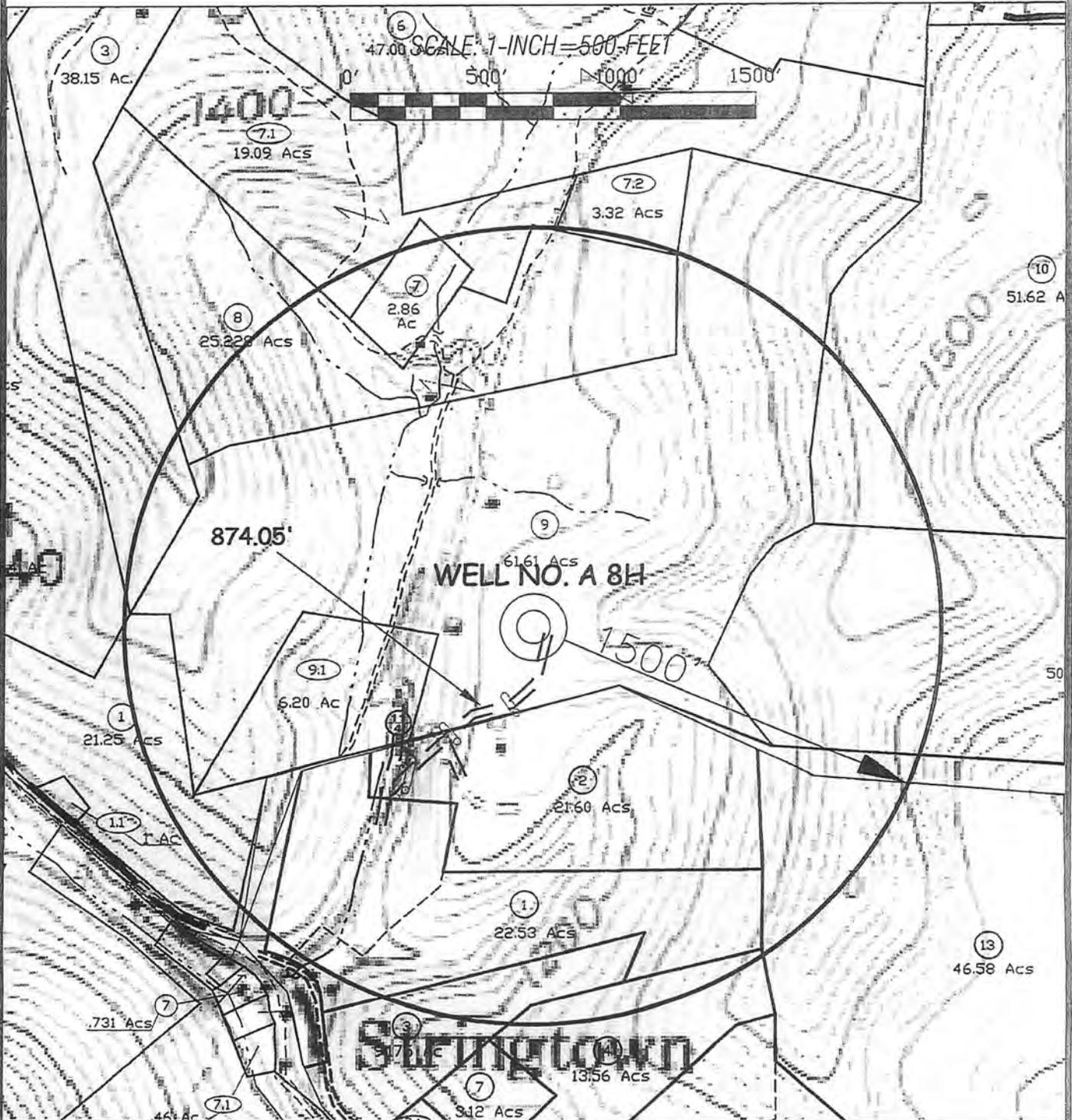
COUNTY NAME

PERMIT

WATER SAMPLES

ZOGOL UNIT WELL NO. A 8H

page of



SLS
SMITH LAND SURVEYING, INC.
P.O. BOX 150 GLENVILLE, WV, 26351
PH: (304) 462-5634 FAX: (304) 462-5636 E-MAIL: sls@slssurveys.com

DRAWN BY K.D.W.	FILE NO. 7226-1	DATE 03/30/12	CADD FILE 7226-116521.DWG
--------------------	--------------------	------------------	------------------------------

TOPO SECTION OF:
SHINNSTON, WV 7.5' QUAD.

DISTRICT	COUNTY	TAX MAP-PARCEL NO.
LINCOLN	MARION	(06-26)-09

OPERATOR:
XTO ENERGY
P.O. BOX 1008
JANE LEW, WV 26378

ECA/TAWNEY LEASE WELL NO. ECA/TAWNEY #1

249.875 ACRES ±

WELL NO. 1
STATE PLANE
COORDINATES

(N) 392,170
(E) 1,743,507

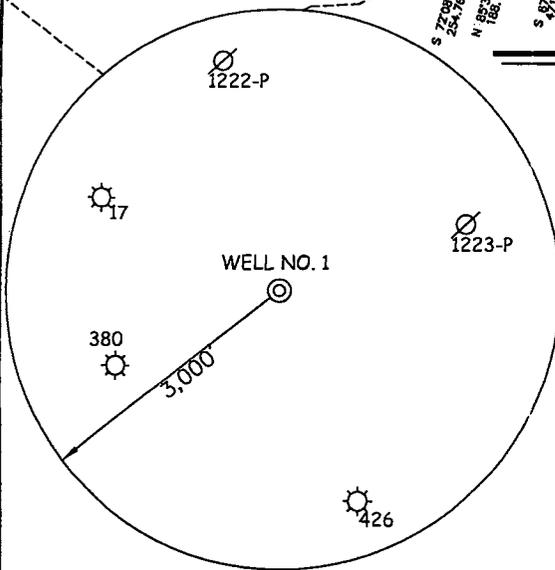
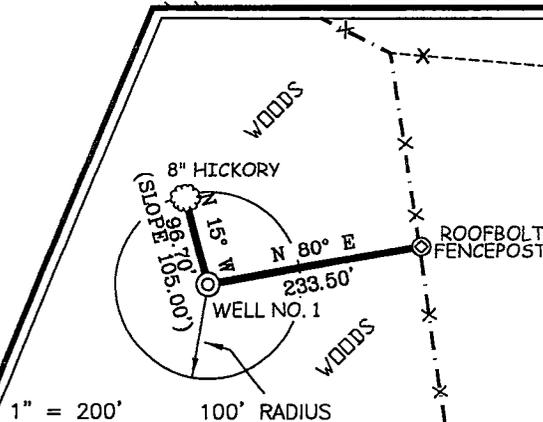
PARCEL TABLE

2	ROBIN LAND CO.	94.75 ACRES±
3	W. THOMPSON ETAL	10 ACRES±
4	WILLIAM THOMPSON	20 ACRES±
5	JOHN WALKER	20 ACRES±
5.1	MITCHELL THOMPSON	5 ACRES±
15	DELMA BIAS	3 ACRES±
16	DELMA BIAS	3 ACRES±
17	PELMER WHEATLEY	5 ACRES±
22	RUTH MILLER ETAL	31 ACRES±

NOTES ON SURVEY

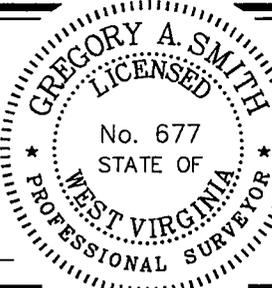
1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 02-13-08.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK A1 PAGE 517.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF BOONE COUNTY IN JULY, 2007.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).
6. DUE TO POOR METES AND BOUNDS DESCRIPTIONS, SURFACE LINES ARE DRAWN FROM TAXMAPS AND CANNOT BE MAPPED WITH ANY CERTAINTY.
7. SLS RECOMMENDS EAE NOTIFIES ALL LANDOWNERS IN THE VICINITY OF WELL LOCATION AND ACCESS ROADS BEFORE ANY CONSTRUCTION OCCURS AND OBTAINS ANY AFFVAVITS NEEDED.

REFERENCES



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 *Gregory A. Smith*



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

DATE FEBRUARY 14, 20 08

OPERATORS WELL NO. ECA/TAWNEY #1

API WELL NO. 47 - 05 - 02290

CANCELLED

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 6552P1(252-64)
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 1,000'

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



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

LOCATION: ELEVATION 1,018' WATERSHED ADKINS FORK
 DISTRICT SCOTT COUNTY BOONE QUADRANGLE MUD 7.5'
 SURFACE OWNER DELMA BIAS (SEE NOTES 6 & 7) ACREAGE 3±
 ROYALTY OWNER GLADYS D. TAWNEY ETAL LEASE ACREAGE 249.875±
 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 Devonian Shale, Berea, Big Injun, Big Lime
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION Big Injun, Big Lime
 ESTIMATED DEPTH 4391'

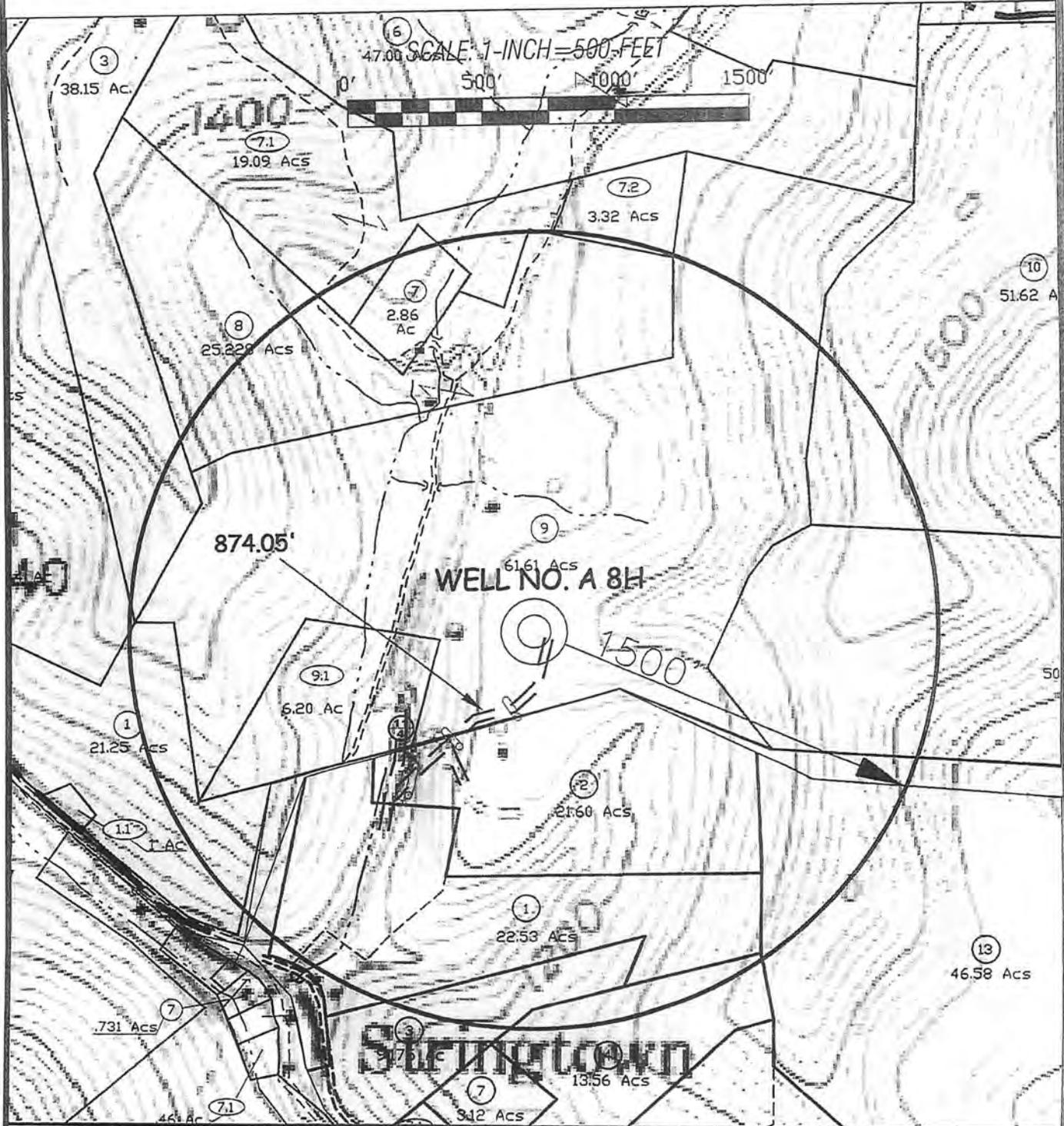
WELL OPERATOR EASTERN AMERICAN ENERGY CORP. DESIGNATED AGENT RODNEY A. WINTERS
 ADDRESS 501 56TH STREET S.E. ADDRESS 501 56TH STREET S.E.
CHARLESTON, WV 25304 CHARLESTON, WV 25304

COUNTY NAME
 PERMIT

WATER SAMPLES

page of

ZOGOL UNIT WELL NO. A 8H



SLS
SMITH LAND SURVEYING, INC.
P.O. BOX 150 GLENVILLE, WV, 26351
PH: (304) 462-5634 FAX: (304) 462-5656 E-MAIL: sls@slssurveys.com

TOPO SECTION OF:
SHINNSTON, WV 7.5' QUAD.

DISTRICT	COUNTY	TAX MAP-PARCEL NO.
LINCOLN	MARION	(06-26)-09

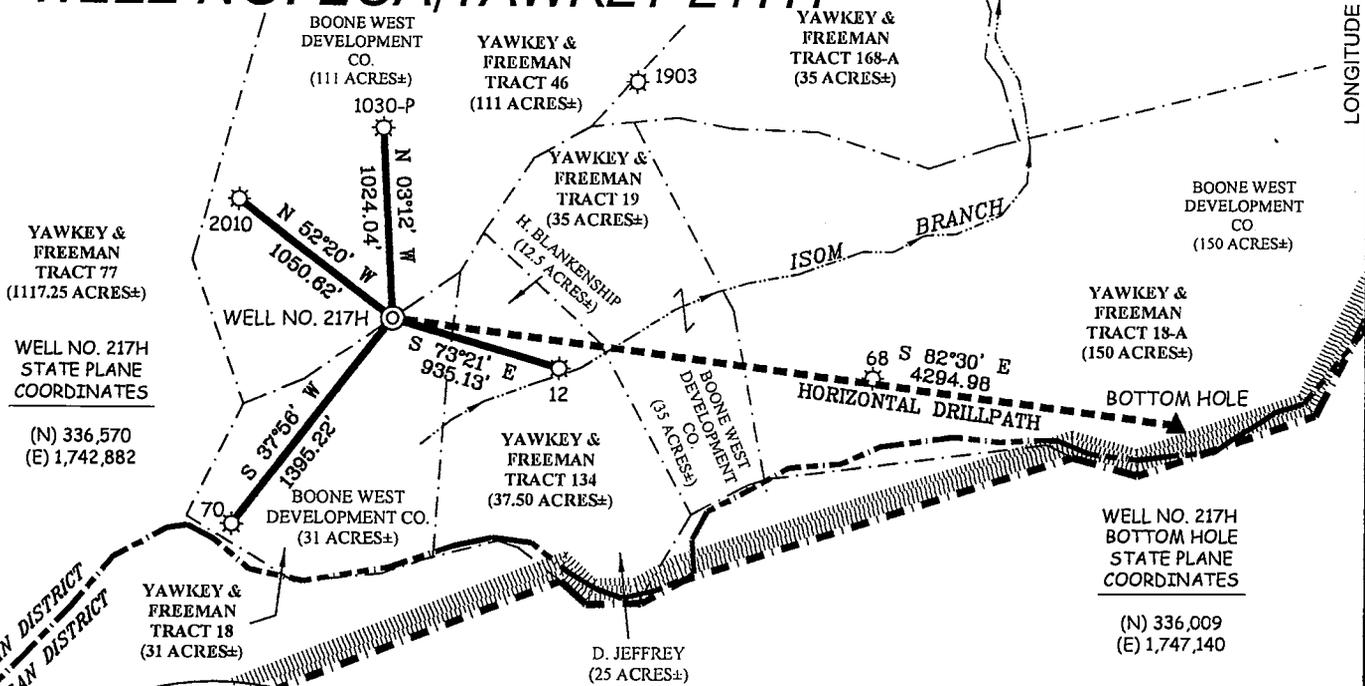
OPERATOR:
XTO ENERGY
P.O. BOX 1008
JANE LEW, WV 26378

DRAWN BY	FILE NO.	DATE	CADD FILE:
K.D.W.	7226-1	03/30/12	7226-1WSBLDWG

YAWKEY & FREEMAN LEASE

31,111,35, & 150 ACRES±

WELL NO. ECA/YAWKEY 217H



WELL NO. 217H
STATE PLANE
COORDINATES

(N) 336,570
(E) 1,742,882

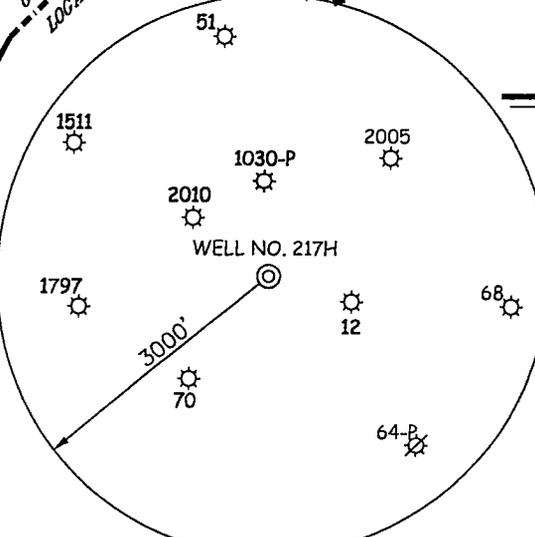
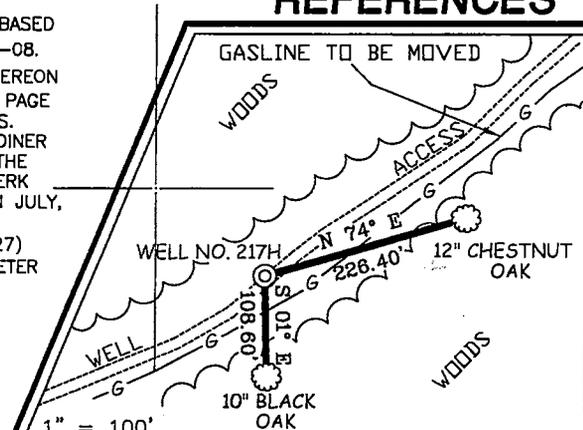
WELL NO. 217H
BOTTOM HOLE
STATE PLANE
COORDINATES

(N) 336,009
(E) 1,747,140

NOTES ON SURVEY

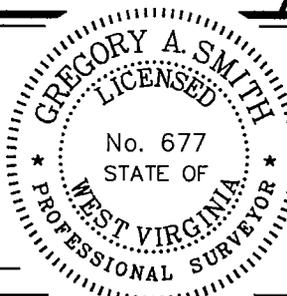
1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 05-21-08.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK "V" PAGE 516 AND ADJOINING DEEDS.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF LOGAN COUNTY IN JULY, 2007.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

REFERENCES



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE JUNE 3, 20 08
 OPERATORS WELL NO. ECA/YAWKEY 217H
 API WELL NO. 47-005-02206 H
 STATE WV COUNTY LOGAN PERMIT 864941D

CANCELLED

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

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 5062P217H(256-74)
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 1,000'

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

LOCATION: ELEVATION 1,912' WATERSHED ISOM BRANCH
 DISTRICT GUYAN COUNTY LOGAN QUADRANGLE HENLAWSON 7.5'

SURFACE OWNER BOONE WEST DEVELOPMENT CO. ACREAGE 31± & 111±
 ROYALTY OWNER YAWKEY & FREEMAN HEIRS OR ASSIGNS LEASE ACREAGE 31±(TRACT 18) & 111±(TRACT 46)
35±(TRACT 19) & 150±(TRACT 18-A)

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

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

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION Devonian Shale
 ESTIMATED DEPTH 4600' TVD 864941D

WELL OPERATOR EASTERN AMERICAN ENERGY CORP. DESIGNATED AGENT RODNEY A. WINTERS
 ADDRESS 501 56TH STREET S.E. ADDRESS 501 56TH STREET S.E.
CHARLESTON, WV 25304 CHARLESTON, WV 25304

COUNTY NAME

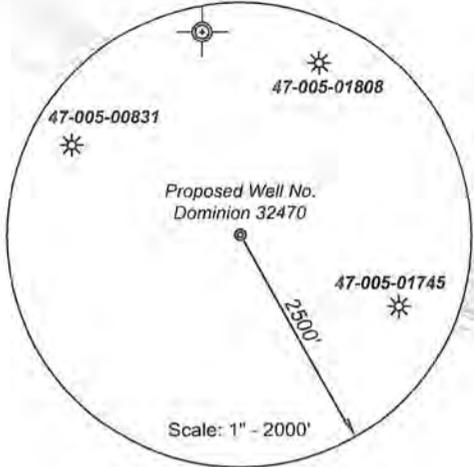
PERMIT

Dominion Well No. 32470
 Dominion Exploration and Production Co.
 23,649.70 Acre Lease

LATITUDE 37 - 52 - 30

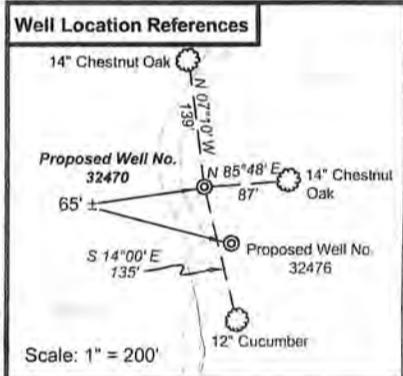
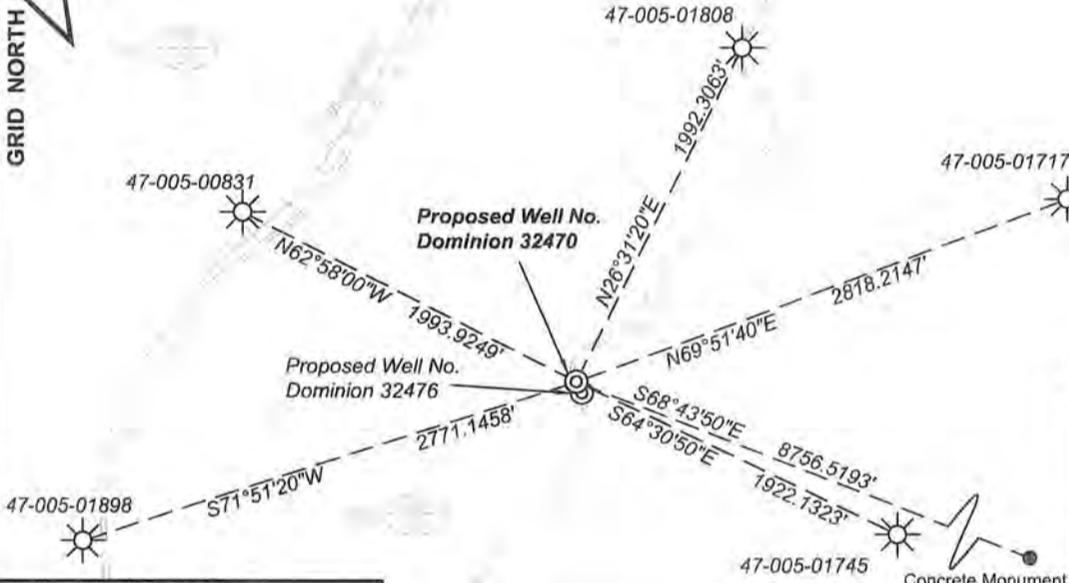
LONGITUDE 81 - 40 - 00

Notes:
 Well site coordinates are
 N: 318,148 Latitude: 37-52-18.7
 E: 1,803,882 Longitude: 81-40-45.3
 West Virginia
 Coordinate System of 1927, South Zone
 based upon
 Differential GPS Measurements.
 Plat orientation and corner and well
 references are based upon the grid
 north meridian.
 Well location references are based upon
 the magnetic meridian.



39
52
 Shepard Boone
 Coal Co. LLC
 C/O
 Natural Resource Partners

GRID NORTH



Legend
 ⊙ Proposed gas well
 • Found corner, as noted
 — Surface boundary (approximate)
 - - - Interior surface tracts (approx.)

(⊙) Denotes location of well on United States topographic maps



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.
Ben R. Sinter
 P.S. 2092



FILE NO: **W02-16-C-04 (SWD - 68)**
 DRAWING NO: **W02-04 32470 plat.dwg**
 SCALE: **1" = 1000'**
 MINIMUM DEGREE OF ACCURACY:
1:2500
 PROVEN SOURCE OF ELEVATION:
Coop - Cors, Loyola Coop, Ripley WV

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

DATE: January 19 2009
 OPERATOR'S WELL NO. DOM #32470
 API WELL NO.: _____
47 - 005 - 02331
 STATE COUNTY PERMIT

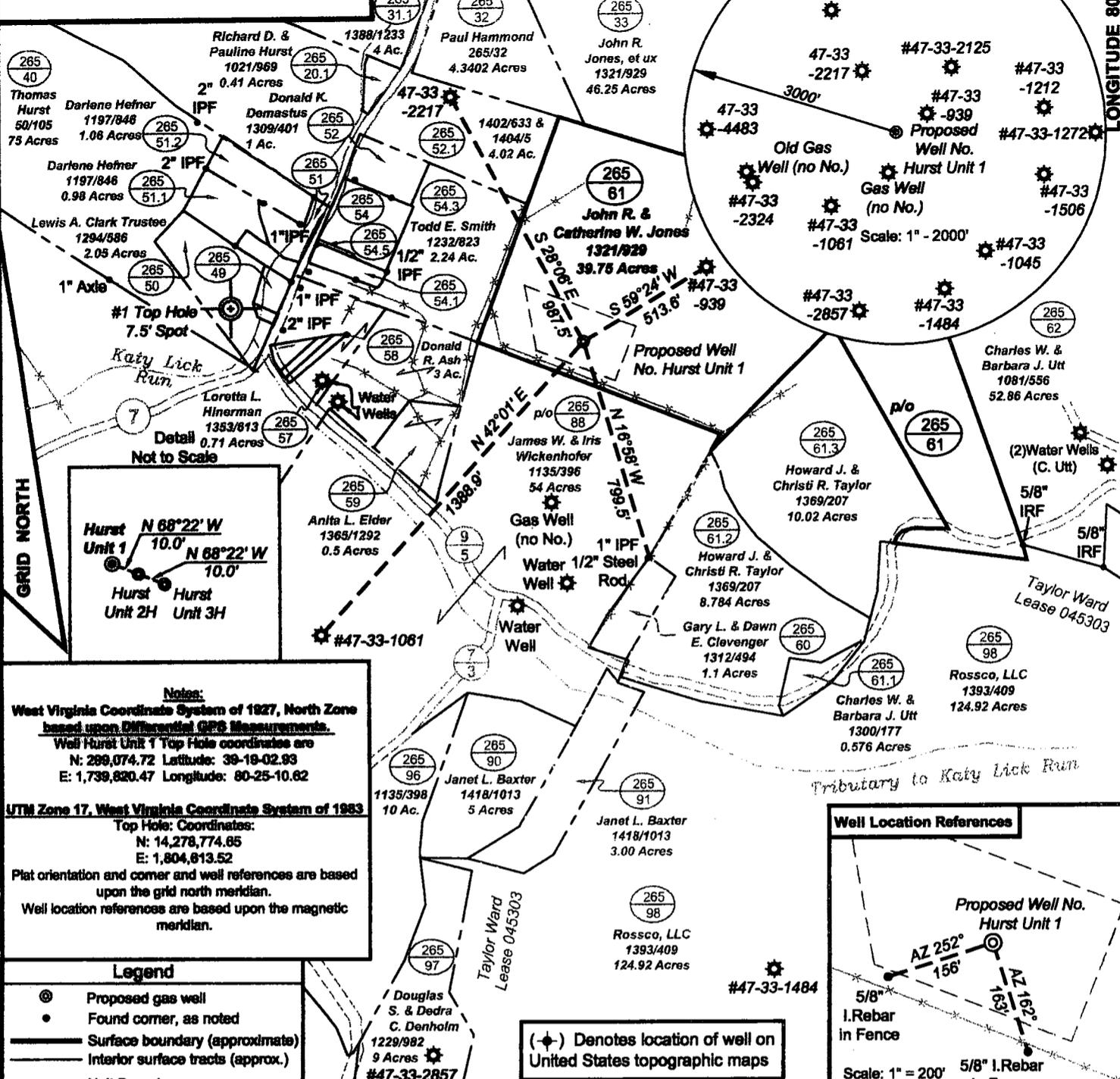
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: 2,063' WATERSHED Cow Creek of Pond Fork
 QUADRANGLE: Lorado DISTRICT: Crook COUNTY: Boone
 SURFACE OWNER: Shepard Boone Coal Co. LLC C/O Natural Resource Partners ACREAGE: 18,779.52
 OIL AND GAS ROYALTY OWNER: Shepard Boone Coal Co. LLC LEASE NO: 80210 ACREAGE: 23,649.70
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: _____ ESTIMATED DEPTH: _____

CANCELLED

WELL OPERATOR: Dominion Exploration and Production Inc. DESIGNATED AGENT: VP/Operations - Rodney Biggs
 ADDRESS: One Dominion Drive, P.O. Box 1248 ADDRESS: One Dominion Drive, P.O. Box 1248
Jane Lew, WV 26378 Jane Lew, WV 26378

Antero Resources
Well No. Hurst Unit 1
Antero Resources Appalachian Corporation

Note: Four (4) water wells were found within 1000' of proposed well No. Hurst Unit 1.



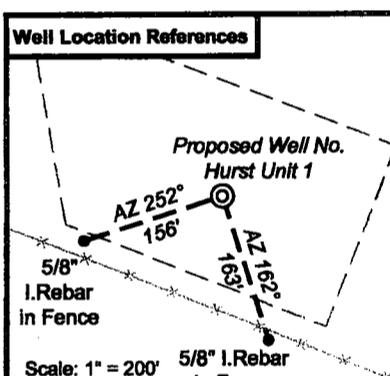
Notes:
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well Hurst Unit 1 Top Hole coordinates are
 N: 299,074.72 Latitude: 39-19-02.93
 E: 1,739,820.47 Longitude: 80-25-10.62

UTM Zone 17, West Virginia Coordinate System of 1983
 Top Hole Coordinates:
 N: 14,278,774.85
 E: 1,804,613.52

Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

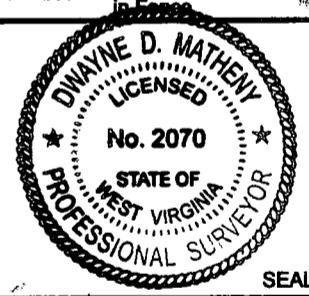
Legend

- ⊙ Proposed gas well
- Found corner, as noted
- Surface boundary (approximate)
- - - Interior surface tracts (approx.)
- ▭ Unit Boundary



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.

[Signature]
 P.S. 2070



FILE NO: 183-36-C-09
 DRAWING NO: 183-09_Hurst Unit 1
 SCALE: 1" = 500'
 MINIMUM DEGREE OF ACCURACY: 1:2500
 PROVEN SOURCE OF ELEVATION: CORS Glenville, WV

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

DATE: July 22 20 10
 OPERATOR'S WELL NO. Hurst Unit 1
 API WELL NO:
 47 - 033 - 05444
 STATE COUNTY PERMIT

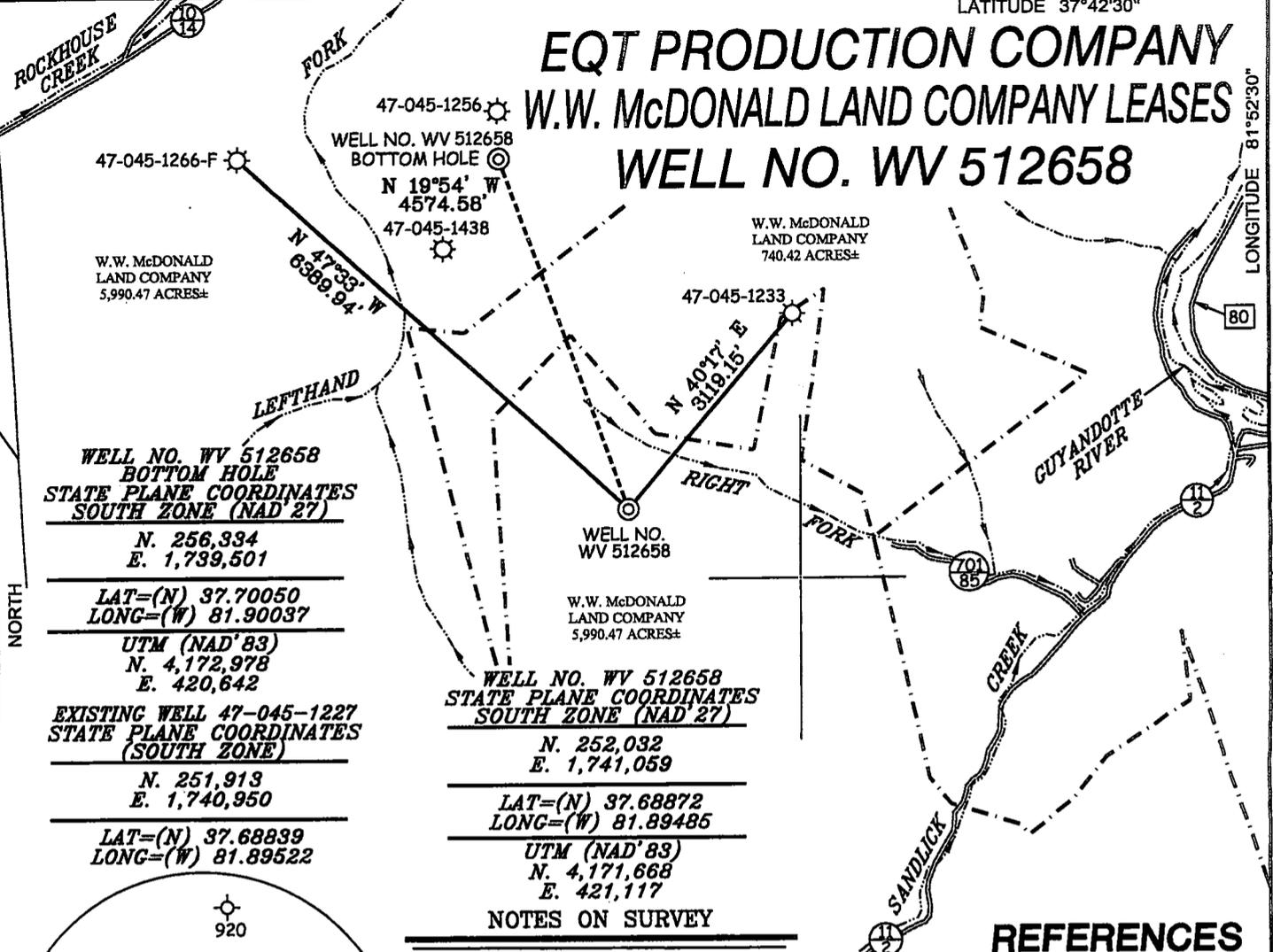
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: 1176' WATERSHED: Katy Lick Run
 QUADRANGLE: Wolf Summit DISTRICT: Sardis COUNTY: Harrison
 SURFACE OWNER: John R. & Catherine W. Jones ACREAGE: 39.75
 OIL AND GAS ROYALTY OWNER: Taylor Ward, et al LEASE NO: p/o 045303 ACREAGE: 175
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,150' TVD / 7,150' MD

CANCELLED

WELL OPERATOR: Antero Resources Appalachian Corporation DESIGNATED AGENT: CT Corporation System
 ADDRESS: 1625 17th Street ADDRESS: 707 Virginia Street East, 16th Floor
 Denver, CO 80202 Charleston, WV 25301

LATITUDE 39 - 20 - 00
 LONGITUDE 80 - 22 - 30
 5,647' to Top Hole

EQT PRODUCTION COMPANY W.W. McDONALD LAND COMPANY LEASES WELL NO. WV 512658



**WELL NO. WV 512658
BOTTOM HOLE
STATE PLANE COORDINATES
SOUTH ZONE (NAD 27)**

N. 256,334
E. 1,739,501

LAT=(N) 37.70050
LONG=(W) 81.90037

UTM (NAD'83)
N. 4,172,978
E. 420,642

**EXISTING WELL 47-045-1227
STATE PLANE COORDINATES
(SOUTH ZONE)**

N. 251,913
E. 1,740,950

LAT=(N) 37.68839
LONG=(W) 81.89522

**WELL NO. WV 512658
STATE PLANE COORDINATES
SOUTH ZONE (NAD 27)**

N. 252,032
E. 1,741,059

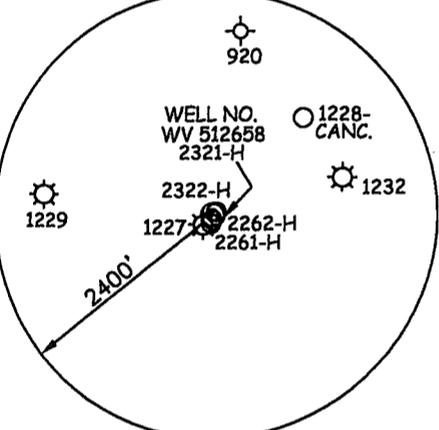
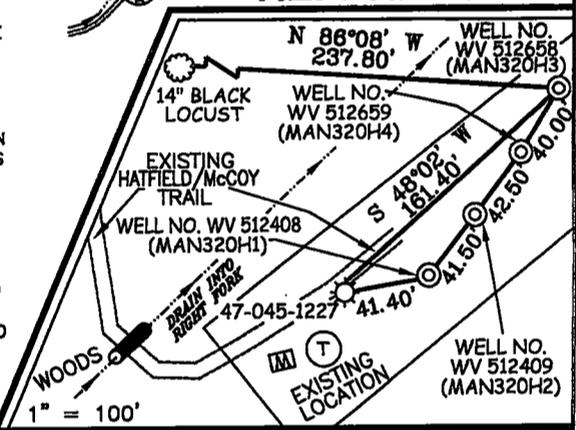
LAT=(N) 37.68872
LONG=(W) 81.89485

UTM (NAD'83)
N. 4,171,668
E. 421,117

NOTES ON SURVEY

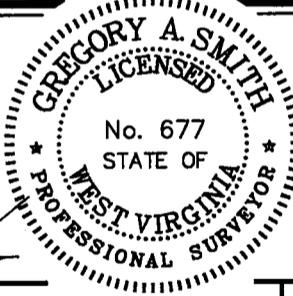
1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 08/18/09.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A PLAT DATED JANUARY 02, 1997 AS PREPARED BY SLS FOR A.P.I. NO. 47-045-1237.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF LOGAN COUNTY IN JULY, 2009.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).
6. ORIGINAL PLAT DATED 09/11/09 REVISED 03/10/10 TO EXTEND HORIZONTAL LEG & CHANGE BOTTOM HOLE COORDINATES, ETC. PLAT REVISED 6/29/10 TO SWITCH TOP HOLE SITE WITH WV 512659.

REFERENCES



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 *Gregory A. Smith*



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

DATE JUNE 29, 20 10

OPERATORS WELL NO. WV 512658

API WELL NO. 47-045-02321H
STATE COUNTY PERMIT
CANCELLED Revised

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 3850P512658R2 (283-60)
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 X LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION X STORAGE DEEP SHALLOW X

LOCATION: ELEVATION 1,432' WATERSHED RIGHT FORK OF SANDLICK CREEK

DISTRICT TRIADELPHIA COUNTY LOGAN QUADRANGLE MAN 7.5'

SURFACE OWNER W.W. McDONALD LAND COMPANY ACREAGE 5,990.47±

ROYALTY OWNER W.W. McDONALD LAND COMPANY LEASE ACREAGE 8,890.505± & 1,537.52±

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

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

PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION LOWER HURON/SILTSTONE
ESTIMATED DEPTH 4,860' (TOTAL VERTICAL DEPTH)

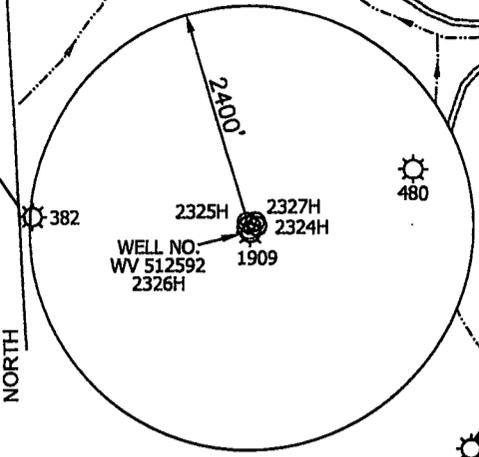
WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY
ADDRESS 1710 PENNSYLVANIA AVENUE ADDRESS 1710 PENNSYLVANIA AVENUE
CHARLESTON, WV 25302 CHARLESTON, WV 25302

COUNTY NAME
PERMIT

PARDEE & CURTIN REALTY, LLC
2,936 ACRES±
(SURFACE)

PARDEE LAND COMPANY LEASE 18,000 ACRES±

TO CO. RT. 1680



47-045-0382 N 85°41' W 2330.18'

BRANCH N 69°08' E 1928.75'

WELL NO. WV 512592

EXISTING WELL
A.P.I. 47-045-1909
STATE PLANE COORDINATES
SOUTH ZONE (NAD'27)

N. 287,214
E. 1,798,662

LAT=(N) 37.78670
LONG=(W) 81.69670

WELL NO. WV 512592
STATE PLANE COORDINATES
SOUTH ZONE (NAD'27)

N. 287,251
E. 1,798,654

LAT=(N) 37.78680
LONG=(W) 81.69673

UTM (NAD'83)
N. 4,182,401
E. 438,666

S 35°37' W 3009.03'

PARDEE & CURTIN REALTY, LLC
2,936 ACRES±
(SURFACE)

47-045-0300

BOTTOM HOLE
WELL NO. WV 512592
STATE PLANE COORDINATES
SOUTH ZONE (NAD'27)

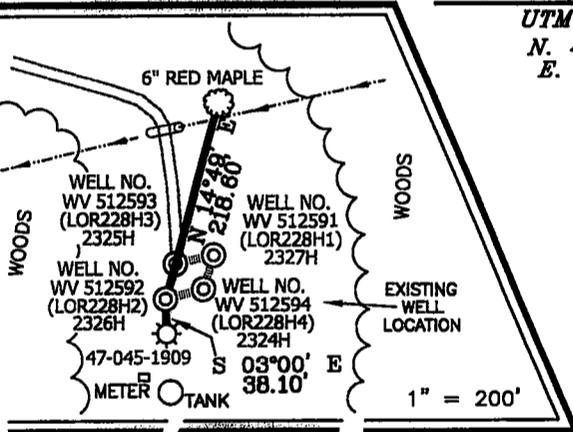
N. 280,982
E. 1,801,767

LAT=(N) 37.76965
LONG=(W) 81.68580

UTM (NAD'83)
N. 4,180,491
E. 439,615

WELL NO. WV 512592

REFERENCES



NOTES ON SURVEY

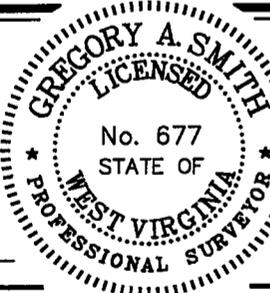
1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE
2. TIES TO REFERENCES ARE BASED ON GRID NORTH WV SOUTH ZONE NAD '27.
3. LEASE BOUNDARY DOES NOT APPEAR WITHIN THE SCOPE OF THIS PLAT.
4. SURFACE OWNER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF LOGAN COUNTY IN JULY, 2010.
5. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).
6. ORIGINAL PLAT DATED 08/03/09 REVISED 11/28/10 TO ROTATE & EXTEND HORIZONTAL LEG, CHANGE BOTTOM HOLE COORDINATES & ADD UTM COORDINATES, ETC.

PARDEE & CURTIN REALTY, LLC
5,338.277 ACRES±

BOTTOM HOLE
WELL NO. WV 512592

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 NOVEMBER 29, 20 10

OPERATORS WELL NO. WV 512592

API WELL NO. 47-045-02326H
STATE COUNTY PERMIT

CANCELLED

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 3906P512592R (283-61)
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 1000'

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



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

LOCATION: ELEVATION 1,614' WATERSHED DAVY BRANCH OF BUFFALO CREEK
DISTRICT TRIADELPHIA COUNTY LOGAN QUADRANGLE LORADO 7.5'
SURFACE OWNER PARDEE & CURTIN REALTY, LLC ACREAGE 2,936±
ROYALTY OWNER PARDEE MINERALS, LLC LEASE ACREAGE 18,000±
PROPOSED WORK: LEASE NO. 004107

DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD
FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___
PHYSICAL CHANGE IN WELL (SPECIFY) ___ TARGET FORMATION LOWER HURON
ESTIMATED DEPTH 5,290' (TOTAL VERTICAL DEPTH)

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

COUNTY NAME PERMIT

PARDEE LAND COMPANY LEASE 18,000 ACRES± WELL NO. WV 512591

BOTTOM HOLE
WELL NO. WV 512591

PARDEE & CURTIN
REALTY, LLC
1,742.85 ACRES±



BOTTOM HOLE
WELL NO. WV 512591
STATE PLANE COORDINATES
SOUTH ZONE (NAD 27)

N. 293,057
E. 1,794,710

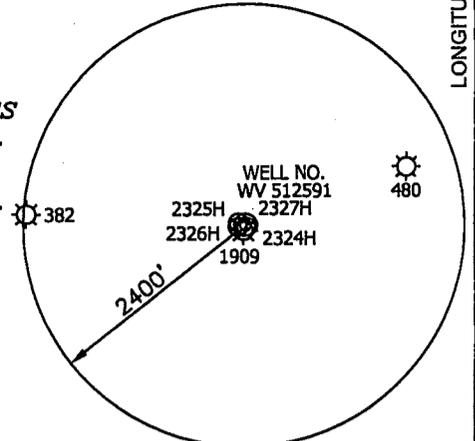
LAT=(N) 37.80266
LONG=(W) 81.71054

UTM (NAD'83)
N. 4,184,170
E. 437,464

EXISTING WELL
A.P.I. 47-045-1909
STATE PLANE COORDINATES
SOUTH ZONE (NAD 27)

N. 287,214
E. 1,798,662

LAT=(N) 37.78670
LONG=(W) 81.69670



WELL NO. WV 512591
STATE PLANE COORDINATES
SOUTH ZONE (NAD 27)

N. 287,305
E. 1,798,698

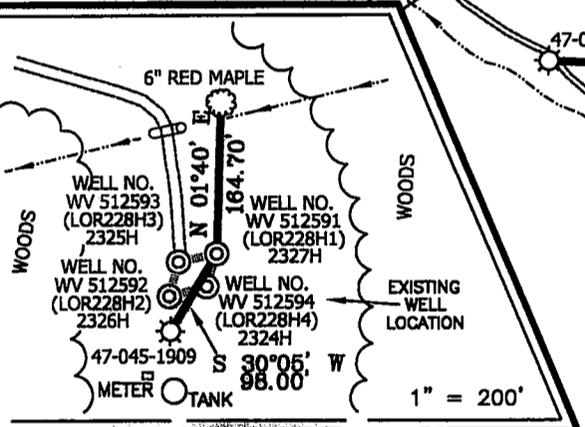
LAT=(N) 37.78695
LONG=(W) 81.69658

UTM (NAD'83)
N. 4,182,418
E. 438,680

PARDEE & CURTIN
REALTY, LLC
2,936 ACRES±
(SURFACE)



REFERENCES

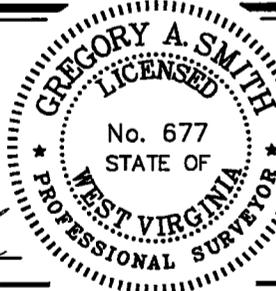


NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE
2. TIES TO REFERENCES ARE BASED ON GRID NORTH WV SOUTH ZONE NAD '27.
3. LEASE BOUNDARY DOES NOT APPEAR WITHIN THE SCOPE OF THIS PLAT.
4. SURFACE OWNER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF LOGAN COUNTY IN JULY, 2010.
5. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).
6. ORIGINAL PLAT DATED 09/03/09 REVISED 11/29/10 TO ROTATE & EXTEND HORIZONTAL LEG, CHANGE BOTTOM HOLE COORDINATES & ADD UTM 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*



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

DATE NOVEMBER 29, 20 10

OPERATORS WELL NO. WV 512591

API WELL NO. 47-045-2327H
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 3906P512591R (283-61)
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 1000'

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



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

LOCATION: ELEVATION 1,614' WATERSHED DAVY BRANCH OF BUFFALO CREEK
DISTRICT TRIADELPHIA COUNTY LOGAN QUADRANGLE LORADO 7.5'
SURFACE OWNER PARDEE & CURTIN REALTY, LLC ACREAGE 2,936±
ROYALTY OWNER PARDEE MINERALS, LLC LEASE ACREAGE 18,000±
PROPOSED WORK: LEASE NO. 004107

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 5,290' (TOTAL VERTICAL DEPTH)

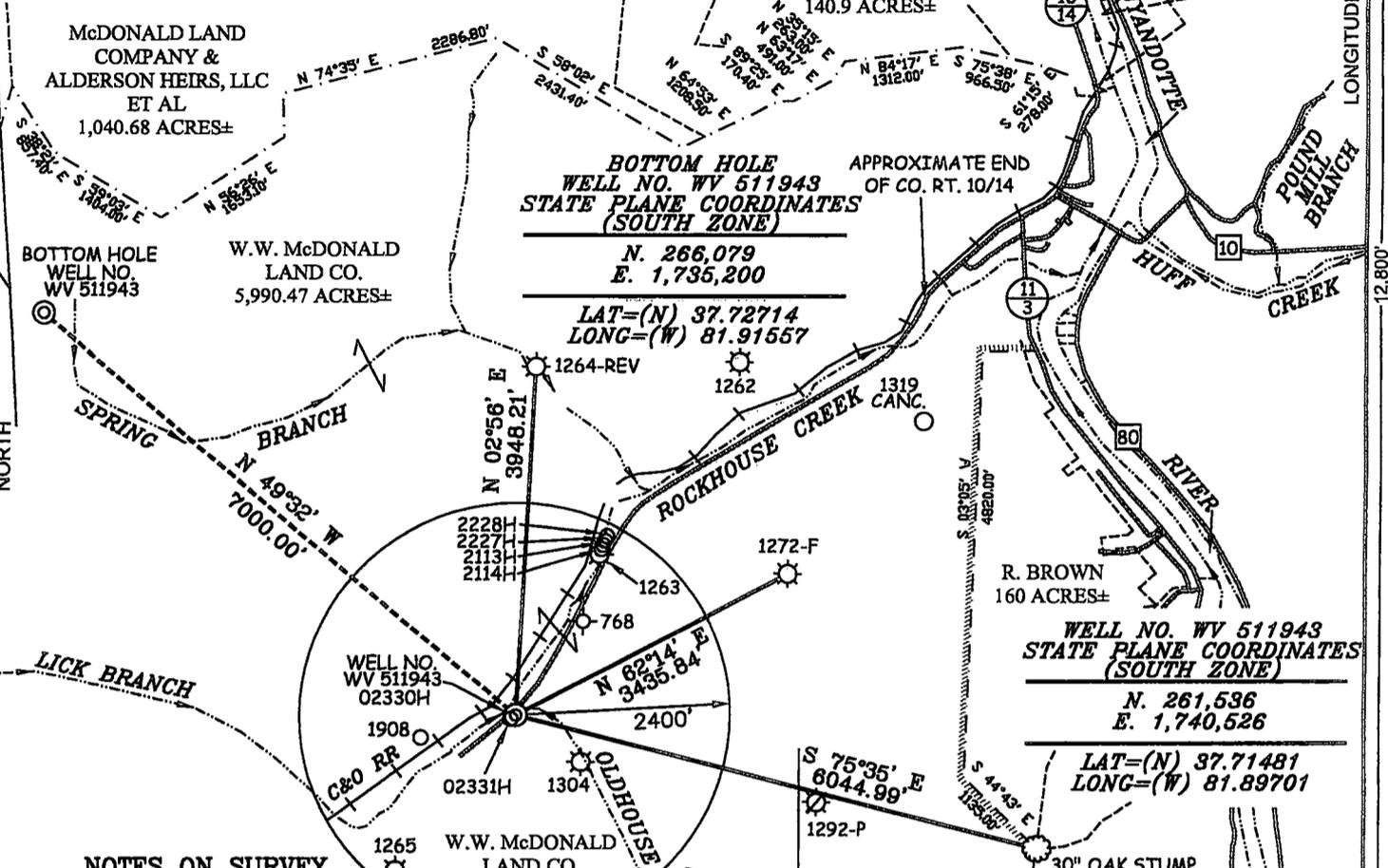
WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY
ADDRESS 1710 PENNSYLVANIA AVENUE ADDRESS 1710 PENNSYLVANIA AVENUE
CHARLESTON, WV 25302 CHARLESTON, WV 25302

COUNTY NAME
PERMIT

W.W. McDONALD LAND CO. LEASE

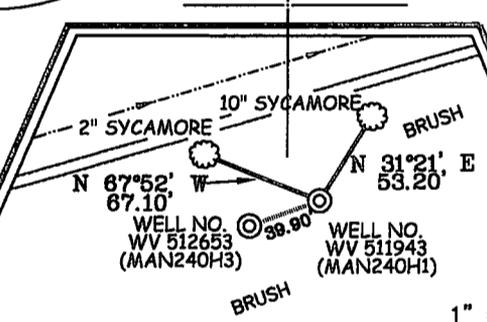
8,890.505 ACRES±

WELL NO. WV 511943



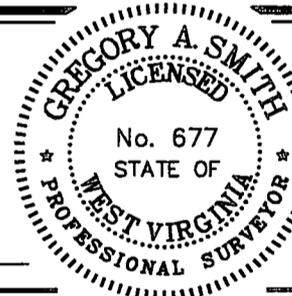
NOTES ON SURVEY

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 08/18/08.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 39 PAGE 143.
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 08/18/09 REVISED 02/19/10 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 FEBRUARY 19, 20 10
 OPERATORS WELL NO. WV 511943
 API WELL NO. 47-045-02330H
 STATE COUNTY PERMIT

CANCELLED

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 3850P511943R (283-59)
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 2000'

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 883' WATERSHED OLDHOUSE BRANCH OF ROCKHOUSE CREEK

DISTRICT TRIADELPHIA COUNTY LOGAN QUADRANGLE MAN 7.5'

SURFACE OWNER W.W. McDONALD LAND COMPANY ACREAGE 5,990.47±

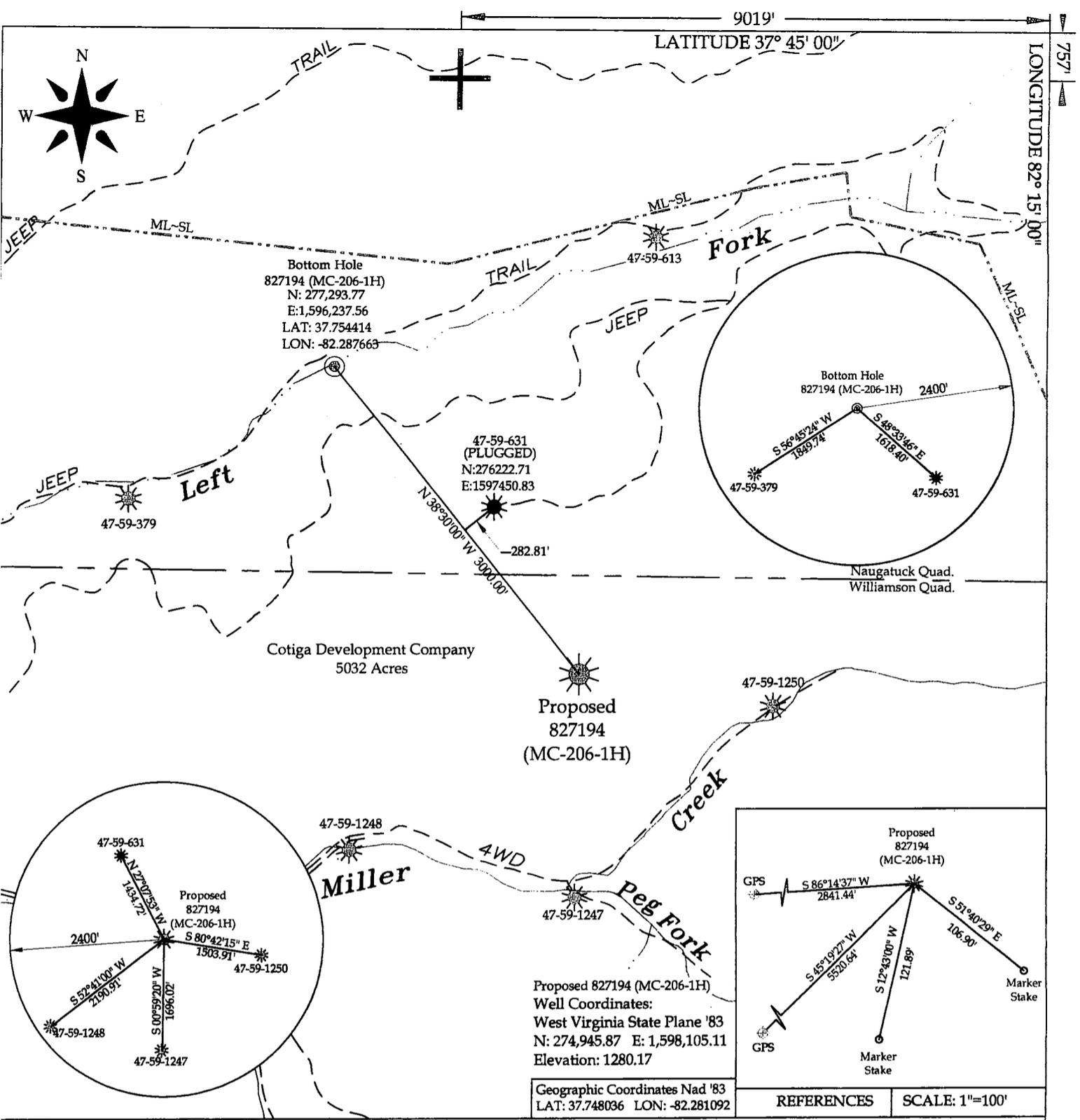
ROYALTY OWNER W.W. McDONALD LAND COMPANY LEASE ACREAGE 8,890.505±

PROPOSED WORK: LEASE NO. 080608
 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 4,540' (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

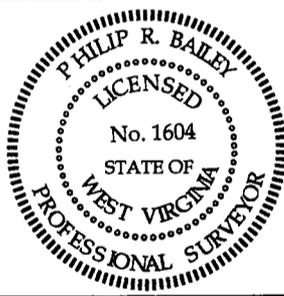
COUNTY NAME PERMIT



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.

(SIGNED) Philip Bailey

R.P.E. _____ R.P.S. X



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

DATE October 28, 20 08
 OPERATOR'S WELL NO. 827194 (MC-206-1H)
 API WELL No. 47 - 059 - 01990H
 STATE COUNTY PERMIT

CANCELLED

MINIMUM DEGREE OF ACCURACY	FILE NO.	G9360-08
1:117,467	SCALE:	1" = 1000'
PROVEN SOURCE OF ELEVATION	DRAWING NO.	MC-206-1H.plat.dwg
TRIG. LEVELING FROM KNOWN GPS ELEVATION		

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

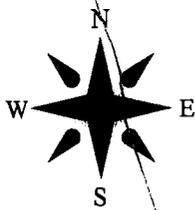
WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS") PRODUCTION _____ X STORAGE _____ DEEP _____ SHALLOW _____

LOCATION: ELEVATION 1280.17 WATER SHED Miller Creek
 DISTRICT Hardee COUNTY Mingo
 QUADRANGLE Williamson (Surface Hole)

SURFACE OWNER Cotiga Development Company ACREAGE 5032 Acres
 OIL & GAS ROYALTY OWNER Cotiga Development Company LEASE ACREAGE 5032 Acres
 LEASE NO. 1050052

PROPOSED WORK: DRILL X 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 LOWER HURON ESTIMATED DEPTH 6811'MD/ 3994' RKBTVD
 WELL OPERATOR CHESAPEAKE APPALACHIA, L.L.C. DESIGNATED AGENT MIKE JOHN
900 PENNSYLVANIA AVENUE ADDRESS: 900 PENNSYLVANIA AVENUE
CHARLESTON, WEST VIRGINIA 25302 CHARLESTON, WEST VIRGINIA 25302



Parker Fork

Mill Fork

Cotiga Development Company
5032 Acres

Proposed
827193 (MC-25-1H)

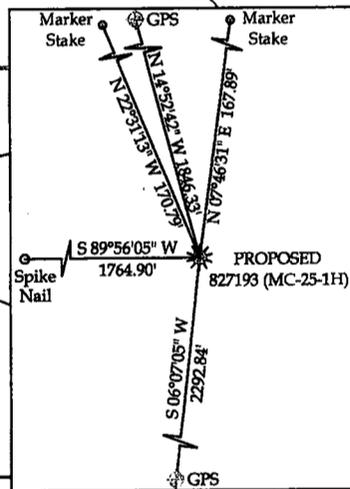
Bottom Hole
827193 (MC-25-1H)

No Wells Within 2400'

Bottom Hole
827193 (MC-25-1H)
N:267,236.26
E:1,596,493.58
LAT:37.726806
LON:-82.286295

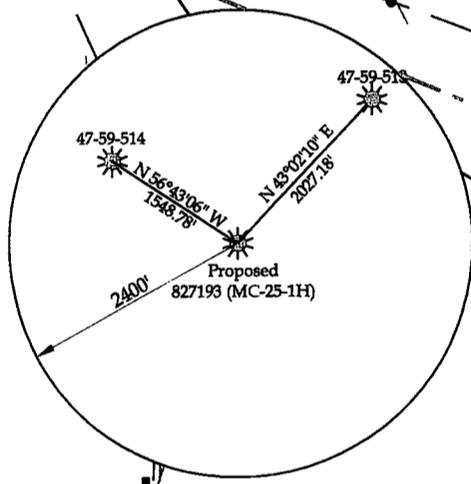
Proposed 827193 (MC-25-1H)
Well Coordinates:
West Virginia State Plane '83
N: 269,279.91 E: 1,594,653.47
Elevation: 1390.26

Geographic Coordinates Nad '27
LAT: 37.732247 LON: -82.292892

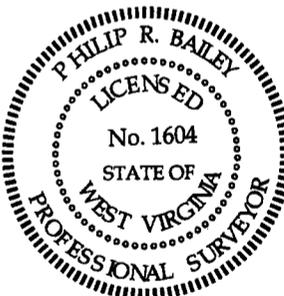


REFERENCES

SCALE: 1"=100'



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.



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

DATE December 4, 20 08
OPERATOR'S WELL NO. 827193 (MC-25-1H)

API WELL 47 - 059 - 1997
STATE COUNTY PERMIT

CANCELLED

(SIGNED) Philip Bailey
R.P.E. _____ R.P.S. X

MINIMUM DEGREE OF ACCURACY 1:117,467
FILE NO. G9359-08
SCALE: 1" = 1000'
PROVEN SOURCE OF ELEVATION TRIG. LEVELING FROM KNOWN GPS ELEVATION
DRAWING NO. MC-25-1H.plat.dwg

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

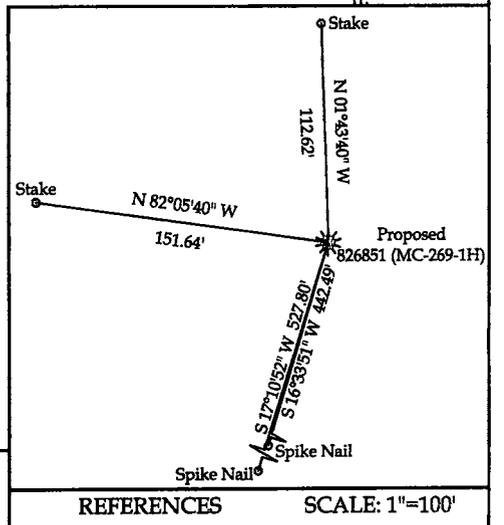
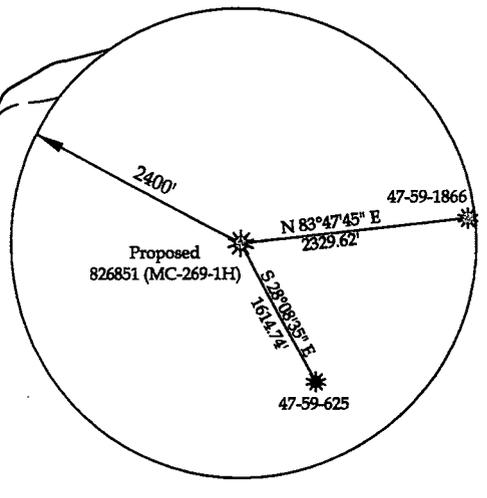
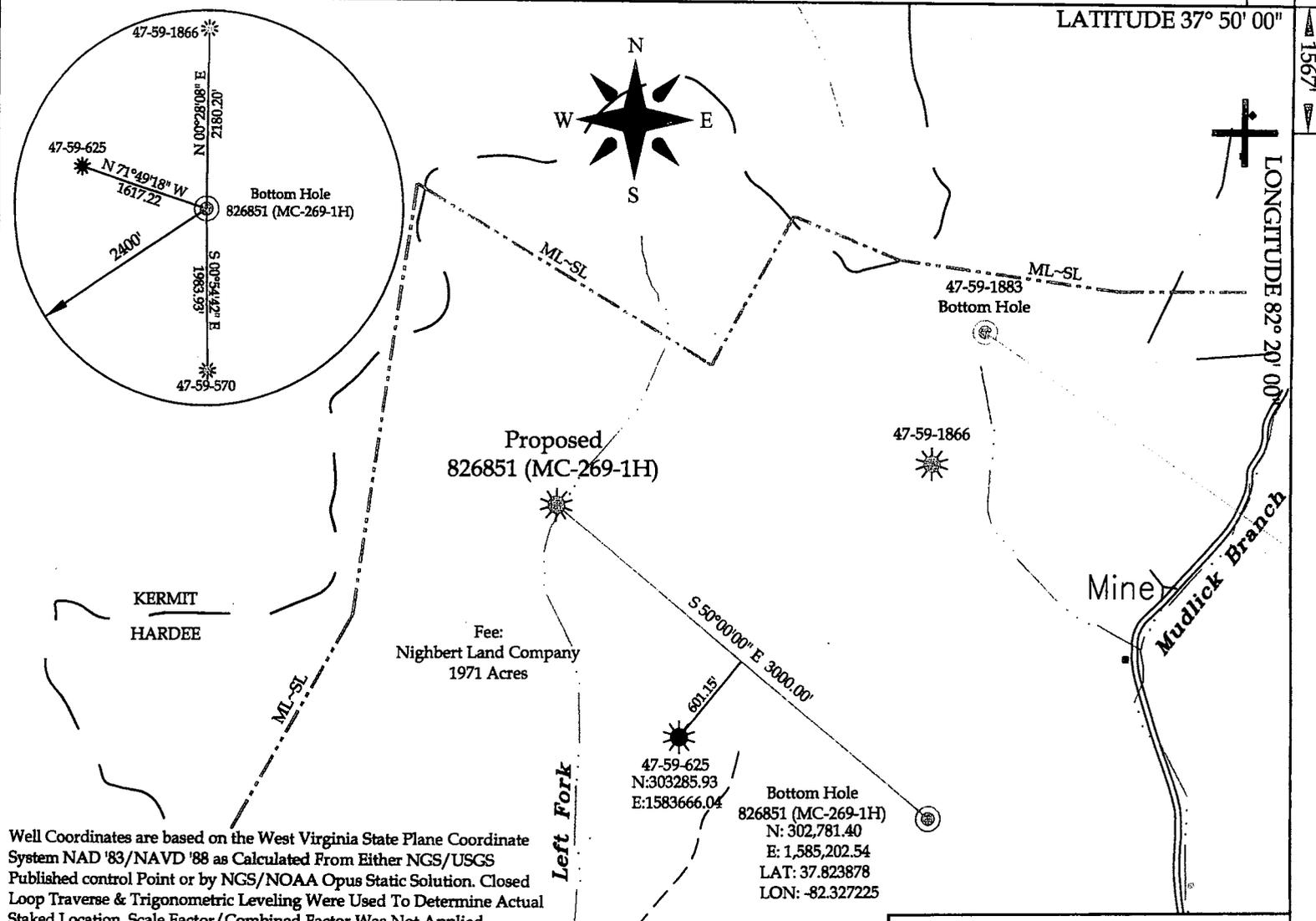


WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS") PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X
LOCATION: ELEVATION 1390.26 WATER SHED Mill Fork of Miller Creek
DISTRICT Hardee COUNTY Mingo
QUADRANGLE Williamson

SURFACE OWNER Cotiga Development Company ACREAGE 5032 Acres
OIL & GAS ROYALTY OWNER Cotiga Development Company LEASE ACREAGE 5032 Acres
LEASE NO. 1050052

PROPOSED WORK: DRILL X 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 LOWER HURON ESTIMATED DEPTH 6679'MD/ 4149'RKBTVE
WELL OPERATOR CHESAPEAKE APPALACHIA, L.L.C. DESIGNATED AGENT MIKE JOHN
900 PENNSYLVANIA AVENUE ADDRESS: 900 PENNSYLVANIA AVENUE
CHARLESTON, WEST VIRGINIA 25302 CHARLESTON, WEST VIRGINIA 25302



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.

(SIGNED) Philip Bailey

R.P.E. _____ R.P.S. X



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

DATE November 25, 20 08

OPERATOR'S WELL NO. 826851 (MC-269-1H)

API WELL No. 47 - 059 - 02010

STATE COUNTY PERMIT

CANCELLED

MINIMUM DEGREE OF ACCURACY 1:10,474

PROVEN SOURCE OF ELEVATION TRIG. LEVELING FROM KNOWN GPS ELEVATION

FILE NO. 9358-08

SCALE: 1" = 1000'

DRAWING NO. MC-269-1H-plat.dwg

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

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____

(IF "GAS") PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X

LOCATION: ELEVATION 932.19 WATER SHED _____ Left Fork of Big Branch

DISTRICT Hardee COUNTY Mingo

QUADRANGLE Naugatuck

SURFACE OWNER Nighbert Land Company ACREAGE 1971

OIL & GAS ROYALTY OWNER Nighbert Land Company LEASE ACREAGE 1971

LEASE NO. 1026481

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

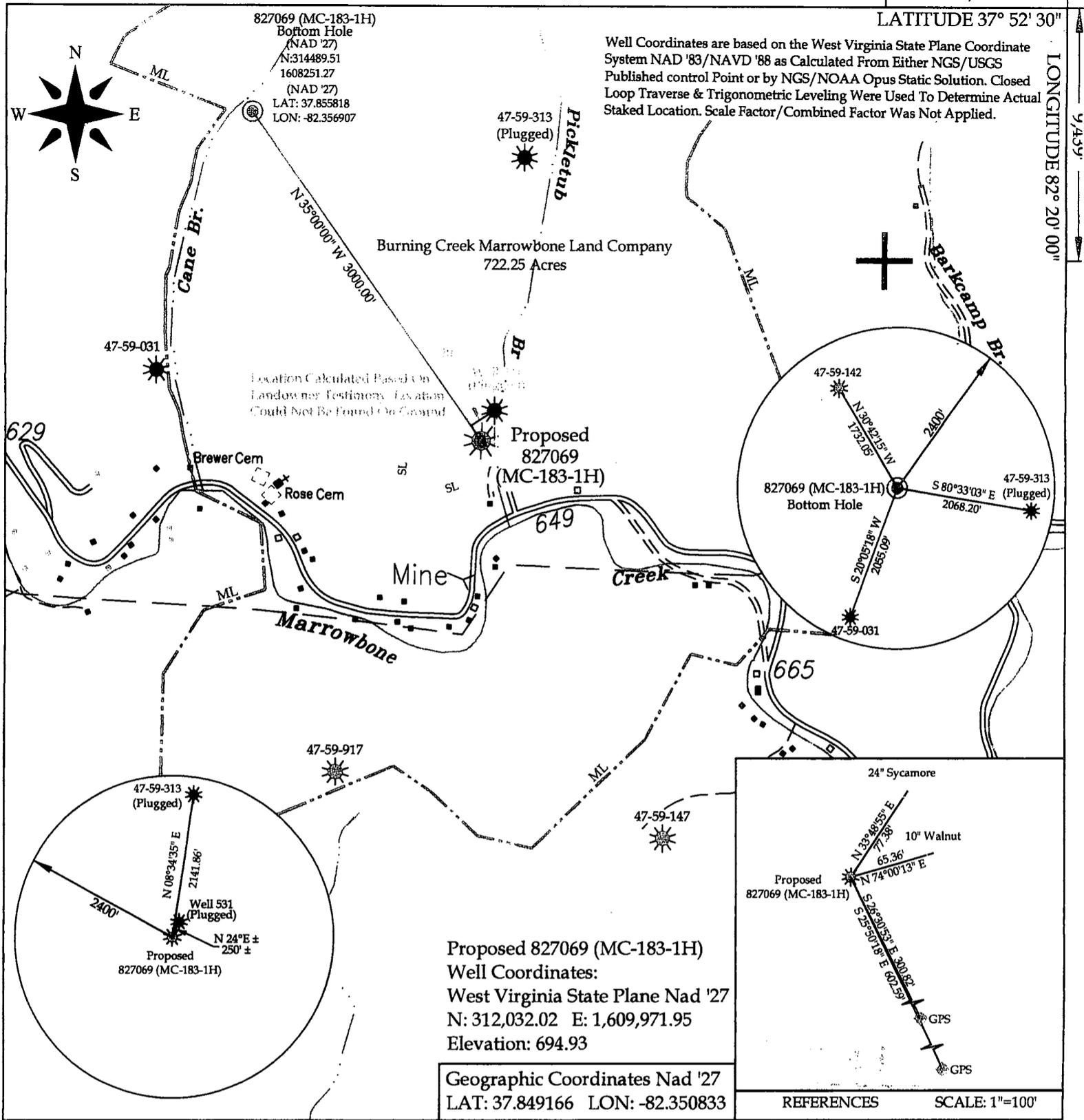
PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____

TARGET FORMATION LOWER HURON ESTIMATED DEPTH 6,296' MD/3536' RKBTVD

WELL OPERATOR CHESAPEAKE APPALACHIA, L.L.C. DESIGNATED AGENT MIKE JOHN

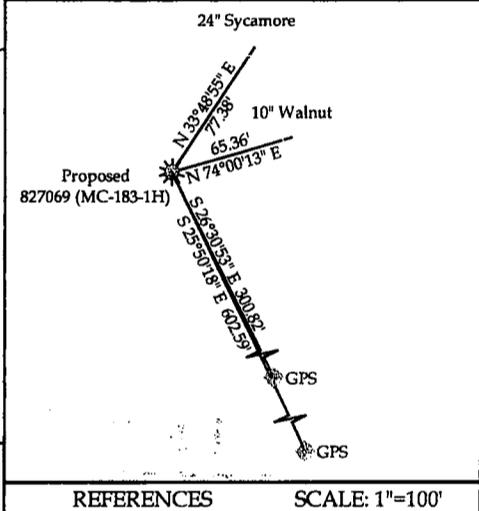
ADDRESS 900 PENNSYLVANIA AVENUE ADDRESS: 900 PENNSYLVANIA AVENUE

CHARLESTON, WEST VIRGINIA 25302 CHARLESTON, WEST VIRGINIA 25302

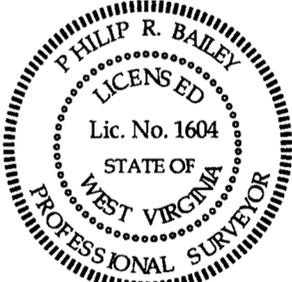


Well Coordinates are based on the West Virginia State Plane Coordinate System NAD '83/NAVD '88 as Calculated From Either NGS/USGS Published control Point or by NGS/NOAA Opus Static Solution. Closed Loop Traverse & Trigonometric Leveling Were Used To Determine Actual Staked Location. Scale Factor/Combined Factor Was Not Applied.

Proposed 827069 (MC-183-1H)
 Well Coordinates:
 West Virginia State Plane Nad '27
 N: 312,032.02 E: 1,609,971.95
 Elevation: 694.93
 Geographic Coordinates Nad '27
 LAT: 37.849166 LON: -82.350833



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.
 (SIGNED) Philip Bailey
 R.P.E. _____ R.P.S. X



(H) DENOTES LOCATION OF WELL ON UNITED STATES TOPO MAPS
 DATE January 13, 20 09
 OPERATOR'S WELL NO. 827069 (MC-183-1H)
 API WELL No. 47 - 059 - 02026
 STATE COUNTY PERMIT
CANCELLED

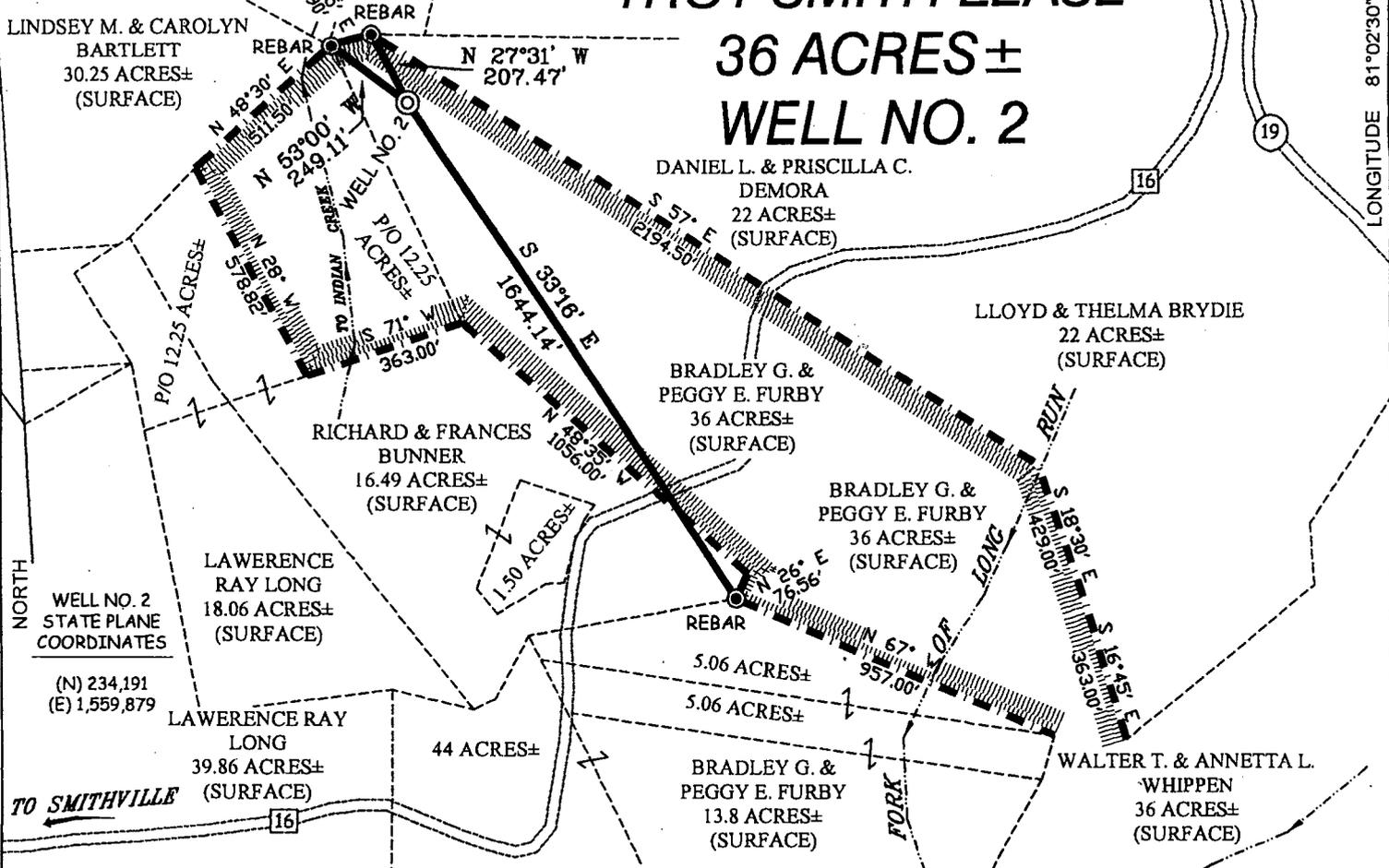
MINIMUM DEGREE OF ACCURACY 1:15,865
 FILE NO. 9363-08
 SCALE: 1" = 1000'
 PROVEN SOURCE OF ELEVATION
 TRIG. LEVELING FROM KNOWN GPS ELEVATION DRAWING NO. 183-plat.dwg

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

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE X DEEP SHALLOW X
 LOCATION: ELEVATION 694.93 WATER SHED Marrowbone Creek
 DISTRICT Kermit COUNTY Mingo
 QUADRANGLE Naugatuck
 SURFACE OWNER Dennie Brewer ACREAGE 4.0
 OIL & GAS ROYALTY OWNER Burning Creek Marrowbone Land Company LEASE ACREAGE 928.40
 LEASE NO. 1064736
 PROPOSED WORK: DRILL X 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 LOWER HURON ESTIMATED DEPTH 5966' MD, 3159' RKBTVD
 WELL OPERATOR CHESAPEAKE APPALACHIA, L.L.C. DESIGNATED AGENT MIKE JOHN
 ADDRESS 900 PENNSYLVANIA AVENUE ADDRESS: 900 PENNSYLVANIA AVENUE
CHARLESTON, WEST VIRGINIA 25302 CHARLESTON, WEST VIRGINIA 25302

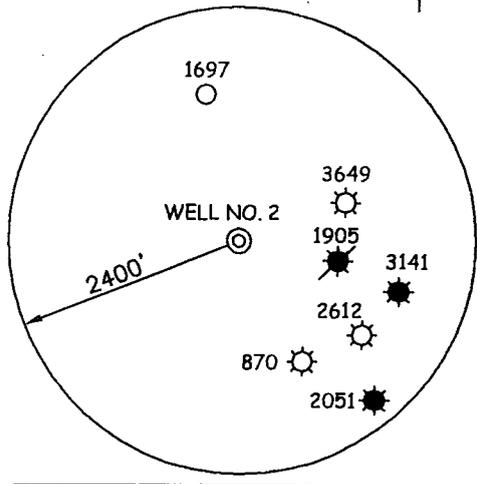
TROY SMITH LEASE

36 ACRES± WELL NO. 2



NORTH
WELL NO. 2
STATE PLANE
COORDINATES
(N) 234,191
(E) 1,559,879

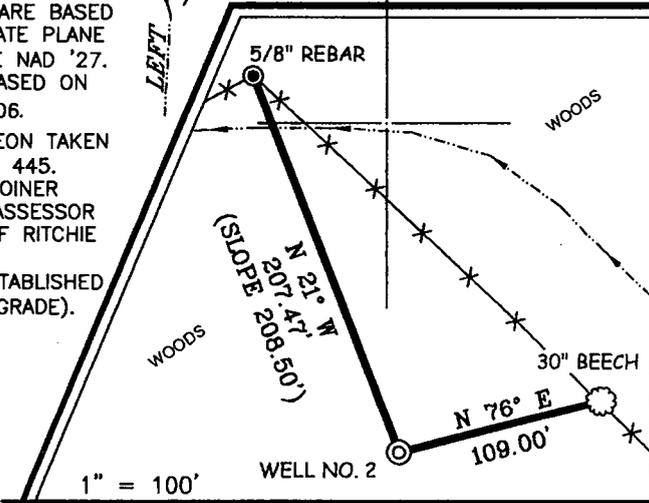
TO SMITHVILLE



NOTES ON SURVEY

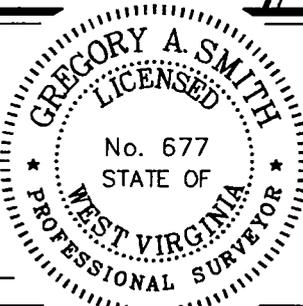
1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 12/06/06.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 222 PAGE 445.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF RITCHIE COUNTY IN JULY, 2006.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

REFERENCES



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE DECEMBER 08, 20 06
 OPERATORS WELL NO. TROY SMITH #2
 API WELL NO. 47-085-9515
 STATE CANCELLED COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 6164P2M (227-18 & 221-29)
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 500'

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



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

LOCATION: ELEVATION 895' WATERSHED INDIAN CREEK
 DISTRICT MURPHY COUNTY RITCHIE QUADRANGLE HARRISVILLE 7.5'

SURFACE OWNER BRADLEY G. & PEGGY E. FURBY ACREAGE 36±
 ROYALTY OWNER TROY SMITH OR ASSIGNS LEASE ACREAGE 30 of 36±

PROPOSED WORK: LEASE NO. _____
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD _____
 FORMATION _____ PERFORATE NEW FORMATION _____ PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____ OTHER _____
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION DEVONIAN SHALE
 ESTIMATED DEPTH 5,990'

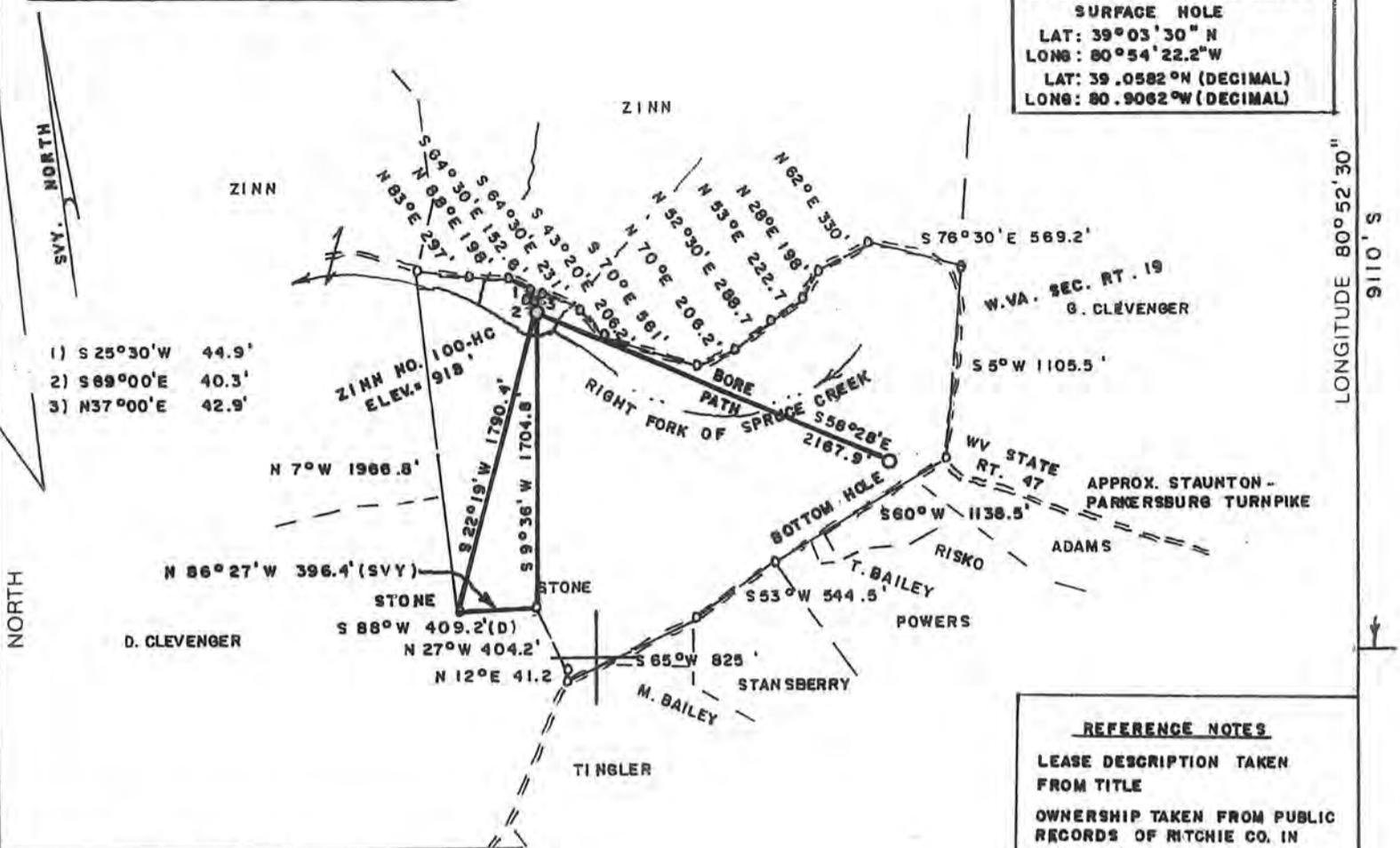
WELL OPERATOR JAY-BEE OIL & GAS, INC. DESIGNATED AGENT RANDY BRODA
 ADDRESS 1720 ROUTE 22 ADDRESS ROUTE 1 BOX 5
EAST UNION, NJ 07083 CARIO, WV 26337

COUNTY NAME
 PERMIT

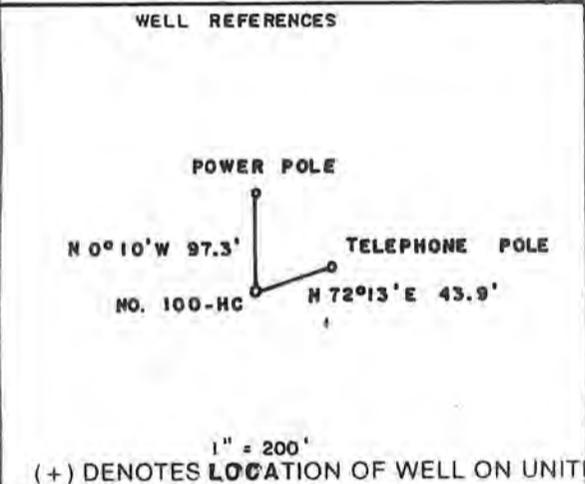
ZINN LEASE 112.4 AC.

PAULINE P. ZINN, 112.4 AC. SURF.

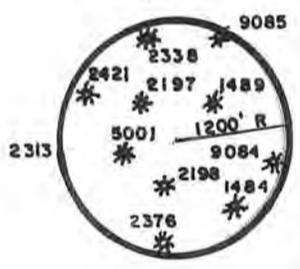
PROPOSED WELL - ZINN 100-HC
GEOGRAPHIC NAD 27 COORDINATES
SURFACE HOLE
LAT: 39°03'30" N
LONG: 80°54'22.2" W
LAT: 39.0582°N (DECIMAL)
LONG: 80.9062°W (DECIMAL)



REFERENCE NOTES
 LEASE DESCRIPTION TAKEN FROM TITLE
 OWNERSHIP TAKEN FROM PUBLIC RECORDS OF RITCHIE CO. IN JUNE 2009
 NAD LAT/ LONG BY 7.5' MINUTE USGS TOPO
 MAP: BURNT HOUSE QUAD. 7.5'



BOTTOM HOLE - ZINN -100-HC
 LAT: 39°03'26.5" N
 LONG: 80°53'58" W
 LAT: 39.0574°N (DECIMAL)
 LONG: 80.8994°W (DECIMAL)



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION JCT. OF ROADS E. SIDE OF LEASE ELEV. = 1187'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.
 (SIGNED) Mark C. Echard
 R.P.E. _____ L.L.S. 490

PLACE SEAL HERE

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

DATE JULY 2, 2009
 OPERATOR'S WELL NO. ZINN NO. 100-HC
 API WELL NO. 47-085-09826 H

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

LOCATION: ELEVATION 918' WATER SHED RIGHT FORK OF SPRUCE CREEK
 DISTRICT UNION COUNTY RITCHIE
 QUADRANGLE BURNT HOUSE 7.5'

SURFACE OWNER PAULINE P. ZINN ACREAGE 112.4
 OIL & GAS ROYALTY OWNER PAULINE P. ZINN, et al LEASE ACREAGE 112.4

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

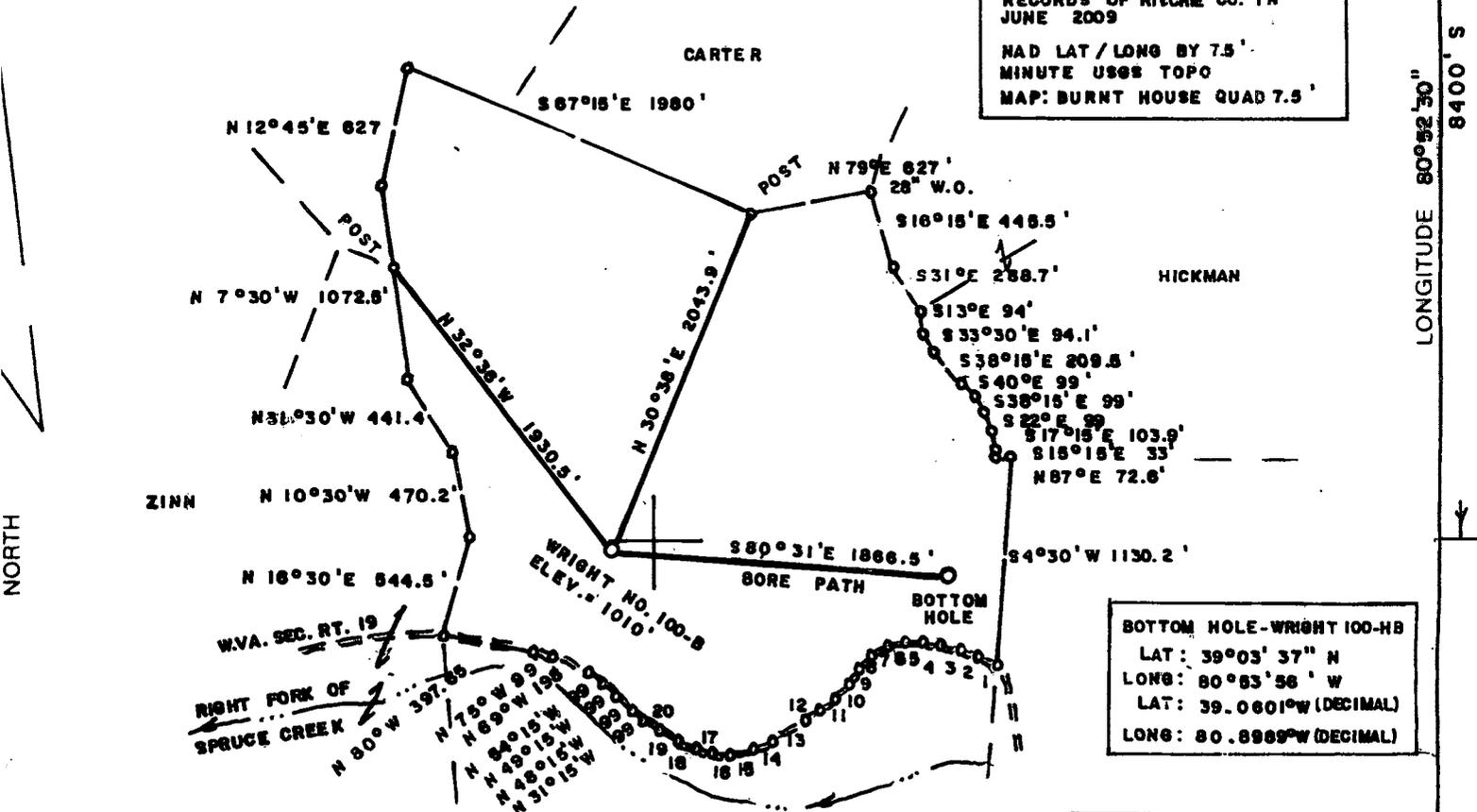
PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION BIG. INJUN ESTIMATED DEPTH 2000 TO 4200 MD
 WELL OPERATOR JAY-BEE PRODUCTION CO. DESIGNATED AGENT RANDY BRODA
 ADDRESS 1720 RT. 22 EAST ADDRESS RT. 1, BOX 5
UNION, NJ 07083 CAIRO, WV 26337

COUNTY NAME
PERMIT

FORM WW-6

WRIGHT LEASE 189.3 AC.
PAULINE P. ZINN, 189.3 AC. SURF.

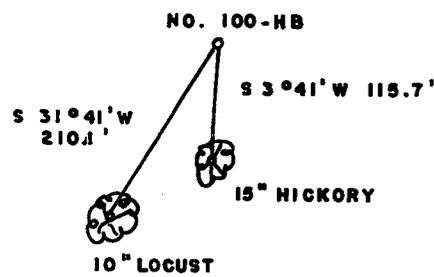
REFERENCE NOTES
LEASE DESCRIPTION TAKEN FROM TITLE
OWNERSHIP TAKEN FROM PUBLIC RECORDS OF RITCHIE CO. IN JUNE 2009
NAD LAT/LONG BY 7.5 MINUTE USGS TOPO
MAP: BURNT HOUSE QUAD 7.5



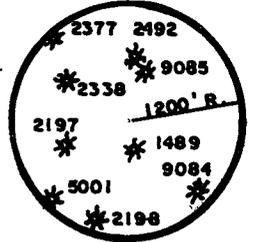
BOTTOM HOLE-WRIGHT 100-HB
LAT: 39°03' 37" N
LONG: 80°53' 36" W
LAT: 39.0601°N (DECIMAL)
LONG: 80.8989°W (DECIMAL)

PROPOSED WELL-WRIGHT 100-HB
GEOGRAPHIC NAD 27 COORDINATES
SURFACE HOLE
LAT: 39°03' 37" N
LONG: 80°54' 19" W
LAT: 39.0604°N (DECIMAL)
LONG: 80.9083°W (DECIMAL)

WELL REFERENCES



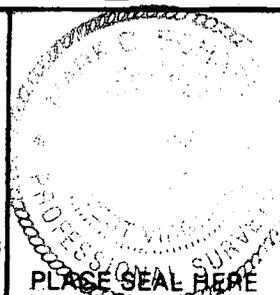
- 1) N 68°30'W 103.9'
- 2) N 69°18'W 99'
- 3) N 70°W 99'
- 4) N 79°W 99'
- 5) S 83°15'W 99'
- 6) S 75°W 99'
- 7) S 66°W 99'
- 8) S 60°30'W 99'
- 10) S 48°W 99'
- 11) S 36°W 99'
- 12) S 59°W 99'
- 13) S 60°W 196'
- 14) S 65°W 99'
- 15) S 81°W 99'
- 16) N 62°W 99'
- 17) N 78°W 99'
- 18) N 84°W 99'
- 19) N 81°W 99'
- 20) N 87°W 99'



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

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION TOP OF KNOB W. OF LEASE
ELEV. = 1314'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.
(SIGNED) Mark C. Echard
R.P.E. _____ L.L.S. 490



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



DATE JULY 2, 2009
OPERATOR'S WELL NO. WRIGHT NO 100-HB
API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
LOCATION: ELEVATION 1010' WATERSHED RIGHT FORK OF SPRUCE CREEK
DISTRICT UNION COUNTY RITCHIE
QUADRANGLE BURNT HOUSE 7.5'

47 085 09828 H
CANCELLED

SURFACE OWNER PAULINE P. ZINN ACREAGE 189.3
OIL & GAS ROYALTY OWNER ROBERT WRIGHT, ET AL LEASE ACREAGE 189.3

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 2000 to 3500 MD
WELL OPERATOR JAY BEE PRODUCTION CO. DESIGNATED AGENT RANDY BRODA
ADDRESS 1720 RT. 22 EAST ADDRESS RT. 1 BOX 5
UNION, NJ 07083 CAIRO, WV 26337

LONGITUDE 80°52'30" 8400' S

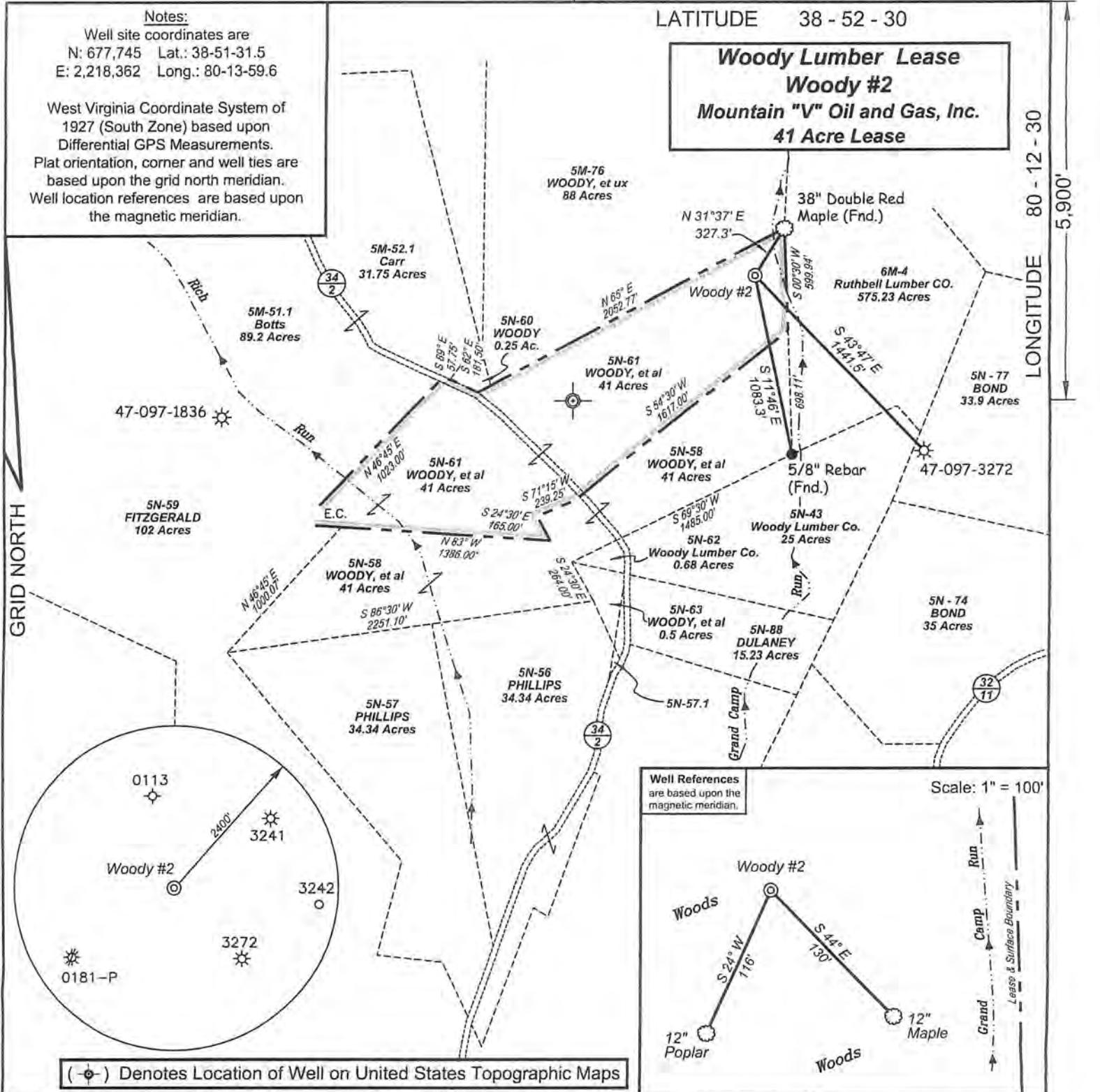
COUNTY NAME

PERMIT

LATITUDE 38 - 52 - 30

LONGITUDE 80 - 12 - 30

**Woody Lumber Lease
Woody #2
Mountain "V" Oil and Gas, Inc.
41 Acre Lease**



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.

Jonathan N. White
P.S. 2122



FILE NO: W-09-09-M-07 (95-38)
DRAWING NO: w-09-07_2.dwg
SCALE: 1" = 800'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF ELEVATION: DGPS Corrected against WVDEP Base Station (Morgantown)



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

DATE: March 16, 20 07
OPERATOR'S WELL NO. Woody No. 2
API WELL NO. 47 097 3385
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1824' WATERSHED Grand Camp Run QUADRANGLE: Alton 7.5'
DISTRICT: Meade COUNTY: Upshur

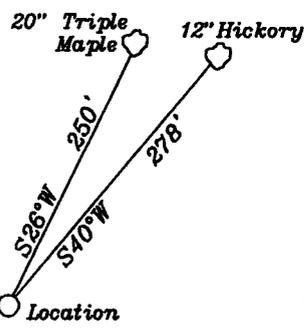
SURFACE OWNER: Jimmy R. Woody, et al ACREAGE: 41
OIL AND GAS ROYALTY OWNER: Jimmy R. Woody, et al LEASE NO: ACREAGE: 41

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Benson ESTIMATED DEPTH: 4250'

WELL OPERATOR: Mountain "V" Oil & Gas, Inc. DESIGNATED AGENT: Mike Shaver
ADDRESS: P.O. Box 470 ADDRESS: P.O. Box 470
Bridgeport, WV 26330 Bridgeport, WV 26330

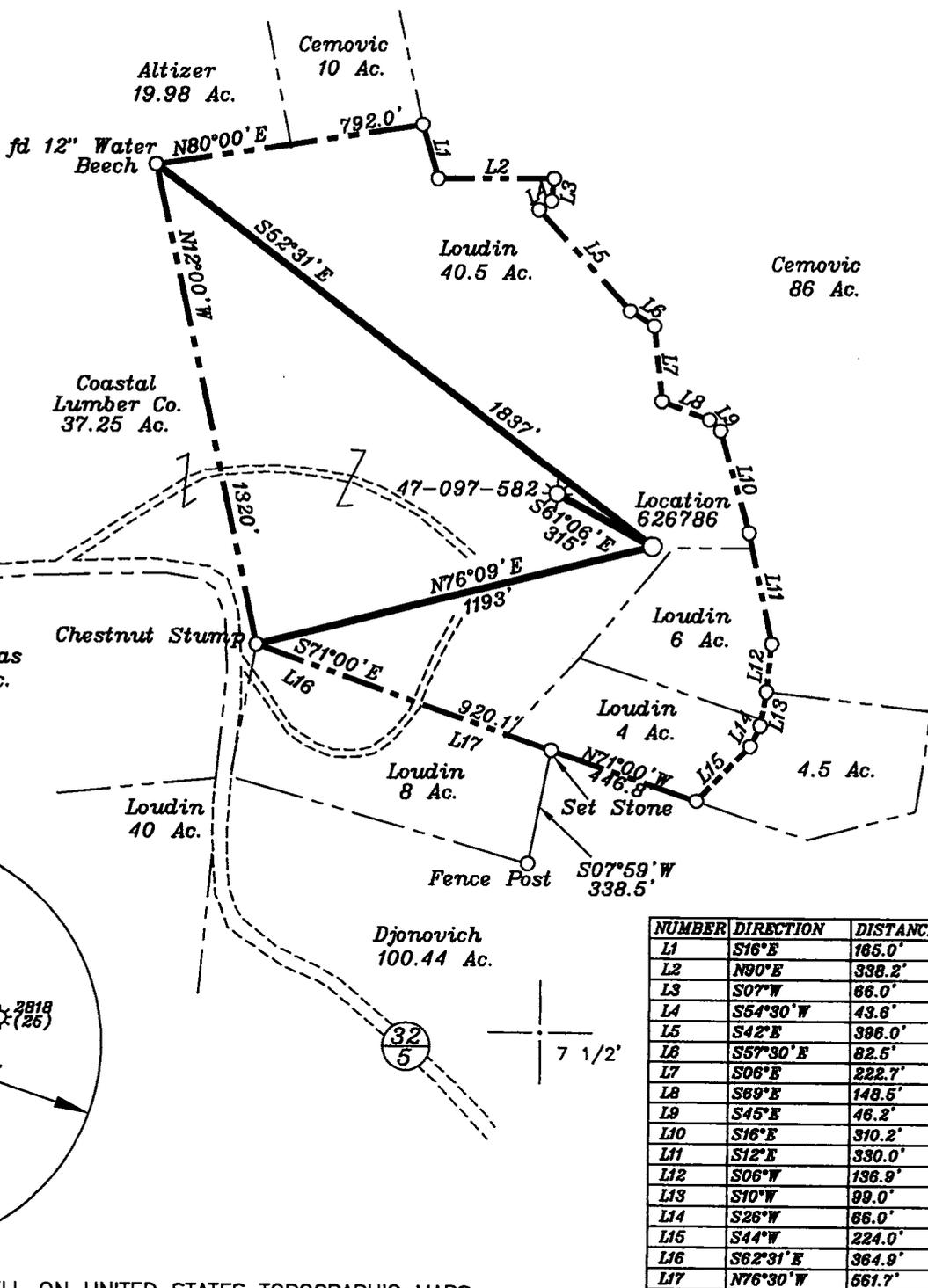
CANCELLED

References



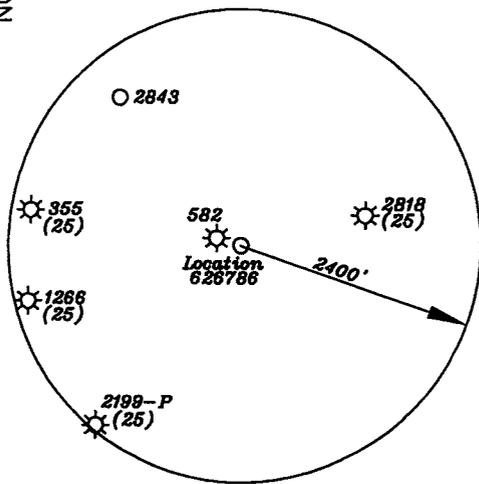
WGS 84 Coordinates
38.882331 N
80.267779 W

Geographic Coordinates
NAD 27
38.882230 N
80.267975 W



NUMBER	DIRECTION	DISTANCE
L1	S16°E	165.0'
L2	N90°E	338.2'
L3	S07°W	66.0'
L4	S54°30'W	43.6'
L5	S42°E	398.0'
L6	S57°30'E	82.5'
L7	S06°E	222.7'
L8	S69°E	148.5'
L9	S45°E	46.2'
L10	S16°E	310.2'
L11	S12°E	330.0'
L12	S06°W	136.9'
L13	S10°W	99.0'
L14	S26°W	66.0'
L15	S44°W	224.0'
L16	S62°31'E	364.9'
L17	N76°30'W	561.7'

NORTH



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

FILE NO. _____
DRAWING NO. 1
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION GPS
submeter unit

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) David L. Jackson
R.P.E. _____ L.L.S. 708

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

DATE May 20, 2008
OPERATOR'S WELL NO. 626786
API WELL NO. _____

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

LOCATION: ELEVATION 1,627' WATER SHED Laurel Fork
DISTRICT Meade COUNTY Upshur

SURFACE OWNER Larry P. Loudin ACREAGE 50.5 ac.
OIL & GAS ROYALTY OWNER OG Nee'y et ux LEASE ACREAGE 52 ac.

LEASE NO. 3056290
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION Marcellus DEPTH 8,002'
WELL OPERATOR Chesapeake Appalachia, L.L.C. DESIGNATED AGENT Michael John
ADDRESS P.O. Box 6070 Charleston, WV 25362 ADDRESS P.O. Box 6070 Charleston, WV 25362

47 - 097 - 03547
STATE COUNTY PERMIT
CANCELLED

DECIMAL LONG: 80.27202
 SURVEYED LONG. 80° 16' 19.3"

6,250'

**DANA BRAGG LEASE
 WELL NO. 2 / WV0310**

4L-135
 MORGAN
 92 Acres

LATITUDE 38° 55' 00"

55.09± AC.

S 86°29' E
 779.12'

506.75'

4L-137.1
 MORGAN
 10.847 Acres

4L-119
 BRAGG
 21.17 Acres

S 86°29' E
 779.12'

S 86°40' E
 506.75'

S 06°27' W
 450.40'

S 84°30' E
 150' (Deed)
 N 89°35' E
 151' (Surv.)

4L-119.1
 COCHRAN
 3.83 Acres

4L-139
 ALTIZER, et al
 20 Acres

48° WHITE
 OAK (FND.)

48° WHITE
 OAK (FND.)

5L-11
 HAWKINS
 12.42 Acres

GRID NORTH
 NORTH ZONE
 GRID SOUTH
 SOUTH ZONE

4L-119.1
 COCHRAN
 3.83 Acres

DANA BRAGG
 NO. 2/WV0310

P/O 4L-139.1
 R. BRAGG
 16.57 Acres

4L-146
 MERCURE
 1 Acre

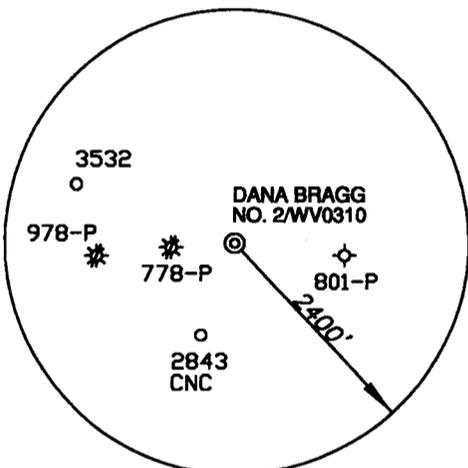
4L-119
 BRAGG
 21.17 Acres

P/O 4L-139.1
 R. BRAGG
 16.57 Acres

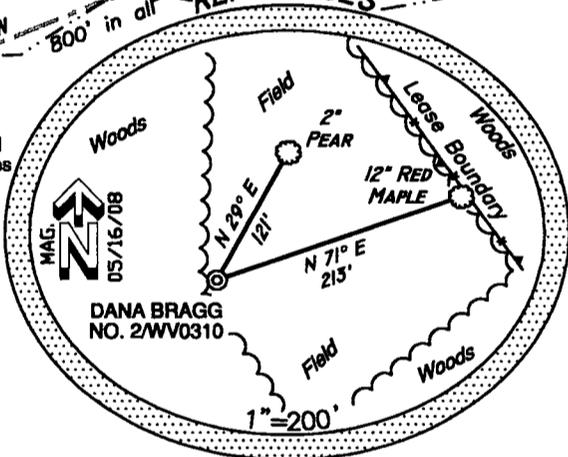
5L-14
 CEMOVIC
 86 Acres

REFERENCE NOTES

LEASE AS SHOWN TAKEN
 FROM DEED BOOK 150/111
 OWNERSHIP TAKEN FROM PUBLIC
 RECORDS OF UPSHUR COUNTY,
 WV IN MAY, 2008.
 LAT./LONG. BY DIFFERENTIAL
 SUBMETER MAPPING GRADE GPS
 DRAFTED BY: J.M.S.



**PROPOSED WELL
 STATE PLANE NAD 27
 COORDINATES**
 N) 688,855
 E) 2,207,222



(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

FILE NUMBER W08016 (WB10-59)

DRAWING NUMBER W080016_2WV0310.dwg

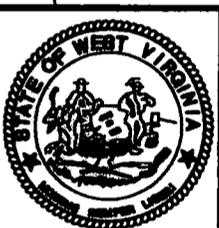
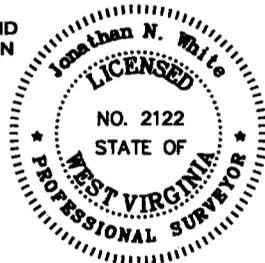
SCALE 1"=400'

MINIMUM DEGREE
 OF ACCURACY 1/200

PROVEN SOURCE
 OF ELEVATION SUBMETER MAPPING
GRADE GPS

I THE UNDERSIGNED HEREBY CERTIFY THAT THIS PLAT IS CORRECT
 TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE
 INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND
 PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

P.S. Jonathan N. White
 2122



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

DATE: MAY 23, 2008
 DANA BRAGG
 OPERATORS WELL NO. No. 2/WV0310

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

API WELL NO. 47-097-03555
 STATE COUNTY CANCELLED PERMIT

LOCATION ELEVATION 1550' WATERSHED TRIBUTARY OF FRENCH CREEK

DISTRICT MEADE COUNTY UPSHUR

QUADRANGLE ADRIAN 7.5' LEASE NUMBER _____

SURFACE OWNER ROGER L. BRAGG ACREAGE 16.57±

OIL & GAS ROYALTY OWNER FRED BRAGG, HEIRS LEASE ACREAGE 55.09±

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

PLUG & ABANDON ___ CLEAN OUT & REPLUG ___

TARGET FORMATION BENSON ESTIMATED DEPTH 4050'

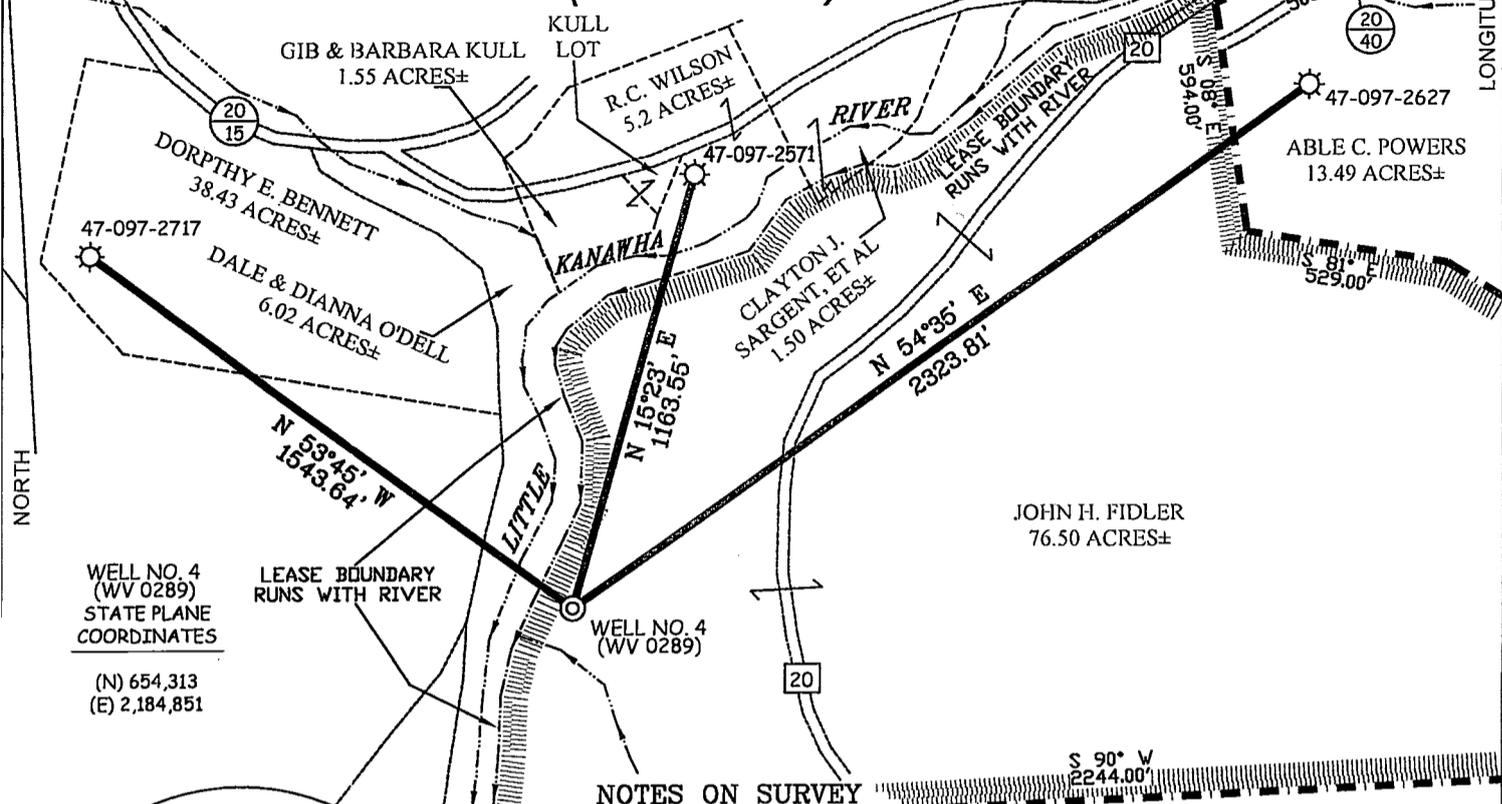
WELL OPERATOR MOUNTAIN V OIL & GAS, INC. DESIGNATED AGENT MIKE SHAVER

ADDRESS P.O. BOX 470, BRIDGEPORT, WV 26330 ADDRESS P.O. BOX 470, BRIDGEPORT, WV 26330

COUNTY NAME
 PERMIT

LONGITUDE 80° 15' 00"
 SURVEYED LAT. 38° 53' 22.1"
 DECIMAL LAT. 38.88948

MAXINE E. FIDLER LEASE 76.5 ACRES± WELL NO. 4 (WV 0289)



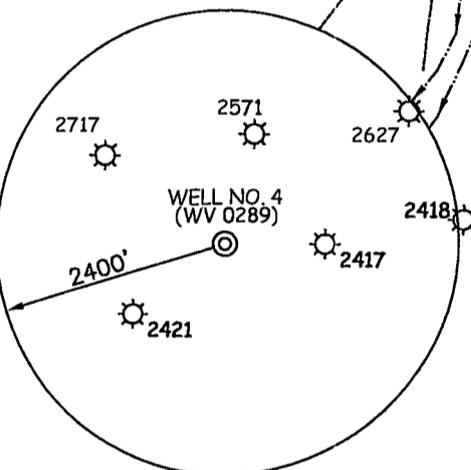
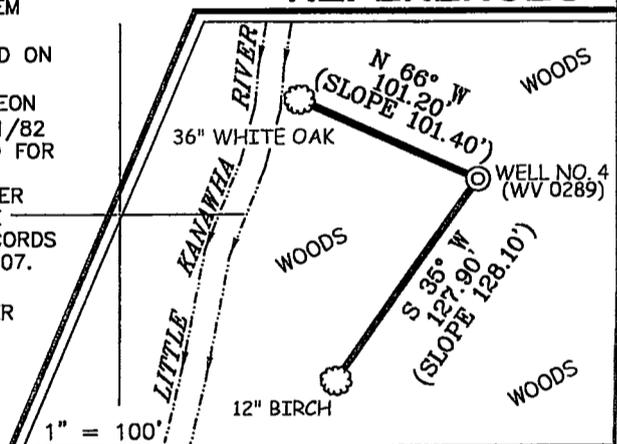
WELL NO. 4 (WV 0289)
STATE PLANE COORDINATES

(N) 654,313
(E) 2,184,851

NOTES ON SURVEY

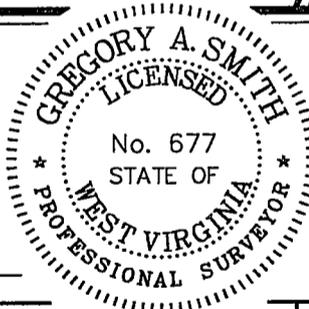
1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 05/23/08.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A PLAT DATED 03/11/82 AS PREPARED BY MARK C. ECHARD FOR A.P.I. NO. 47-097-2417.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF UPSHUR COUNTY IN JULY, 2007.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

REFERENCES



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE JUNE 09, 20 08
 OPERATORS WELL NO. MAXINE E. FIDLER #4 (WV 0289)
 API WELL NO. 47-097-03576
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 6774P4 (262-02)
 SCALE 1" = 500'
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE)

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 1,437' WATERSHED LITTLE KANAWHA RIVER
 DISTRICT BANKS COUNTY UPSHUR QUADRANGLE ROCK CAVE 7.5'
 SURFACE OWNER JOHN H. FIDLER ACREAGE 76.5±
 ROYALTY OWNER JOHN H. FIDLER, ET AL LEASE ACREAGE 76.5±
 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 BENSON
 ESTIMATED DEPTH 4,100'

WELL OPERATOR MOUNTAIN "V" OIL & GAS, INC. DESIGNATED AGENT MICHAEL SHAVER
 ADDRESS P.O. BOX 470 ADDRESS P.O. BOX 470
BRIDGEPORT, WV 26330 BRIDGEPORT, WV 26330

LONGITUDE 80°20'00" 13,900' LAT. 38.79510

DECIMAL LONG: 80.25906
SURVEYED LONG. 80° 15' 32.6"

2,580'

WILMA GOODWIN LEASE WELL NO. 4 / WV0303 36.8 AC. OF 193 AC.± LEASE

LATITUDE 39° 02' 30"

REFERENCE NOTES

LEASE AS SHOWN TAKEN FROM DEED BOOK 118 ON PAGE 44. OWNERSHIP TAKEN FROM PUBLIC RECORDS OF UPSHUR COUNTY, WV IN MARCH, 2008. LAT./LONG. BY DIFFERENTIAL SUBMETER MAPPING GRADE GPS DRAFTED BY: J.M.S.

PROPOSED WELL STATE PLANE NAD 27 COORDINATES
N) 735,777
E) 2,210,537

WV SOUTH ZONE
GRID NORTH

69.5 ACRE
MINERAL TCT.

47-097-0312-P

5E-9 SPONAUGLE
52.29 Acres

5E-10 SEELEY
15.607 Ac.

5E-10 SEELEY
15.607 Ac.

5E-16.1 LINGER
0.91 AC.

5E-12 COBERLY
7.93 Acres

5E-16.5 HOLLEN
1.203 AC.

5E-16.8 LYNCH
1.339 AC.

5E-16.2 R. BENNETT
6.55 AC.

5E-16.3 BOLTON
1.758 AC.

5E-17 A. BENNETT
2.28 Acres

5E-17.1 R. BENNETT

5E-20.3 R. BENNETT
5.86 Acres

5E-10.2 YOAKUM
2.284 Acres

5E-10.1 CUTLIP
1.946 Acres

5E-18 HUFFMAN
8.3 Acres

5E-19 (FND.)
261.00'

5E-19.1
726'

5E-19.2

5E-20.1

5E-20.2

5E-20.3

5E-20.4

5E-20.5

5E-20.6

5E-20.7

5E-20.8

5E-20.9

5E-20.10

5E-20.11

5E-20.12

5E-20.13

5E-20.14

5E-20.15

5E-20.16

5E-20.17

FENCEPOST (FND.)

5E-31 CAROLL, et al
58 Acres

REFERENCES

Old Strip Area

WILMA GOODWIN #4
WV0303

Highwall

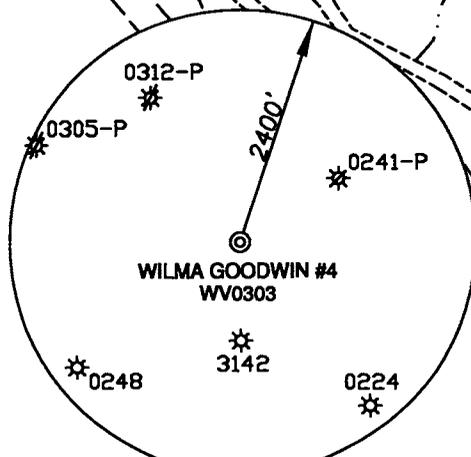
Woods

8" Sugar Maple

18" Black Oak

MAG
04/16/08

1"=100'

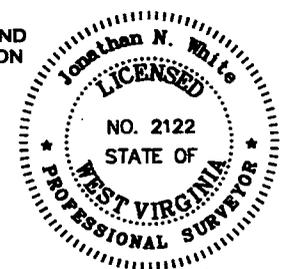


(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

FILE NUMBER	W08006 (WB10-32)
DRAWING NUMBER	W08006_4WV0303.dwg
SCALE	1"=400'
MINIMUM DEGREE OF ACCURACY	1/200
PROVEN SOURCE OF ELEVATION	SUBMETER MAPPING GRADE GPS

I THE UNDERSIGNED HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

P.S. Jonathan N. White



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

DATE: APRIL 28, 2008
OPERATORS WELL NO. WILMA GOODWIN #4
WV0303

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

API WELL NO. 47-097-03577
STATE COUNTY PERMITS

CANCELLED

LOCATION ELEVATION 1594' WATERSHED MUD LICK

DISTRICT BUCKHANNON COUNTY UPSHUR
QUADRANGLE BERLIN 7.5' LEASE NUMBER

SURFACE OWNER ARNOLD HUFFMAN ACREAGE 8.3

OIL & GAS ROYALTY OWNER WILMA R. GOODWIN, et al LEASE ACREAGE 36.8 OF 193

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

TARGET FORMATION BENSON PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
ESTIMATED DEPTH 5350'

WELL OPERATOR MOUNTAIN V OIL & GAS, INC. DESIGNATED AGENT MIKE SHAVER

ADDRESS P.O. BOX 470, BRIDGEPORT, WV 26330 ADDRESS P.O. BOX 470, BRIDGEPORT, WV 26330

8,510'
SURVEYED LAT. 39° 01' 05.7"
DECIMAL LAT. 39.01824

COUNTY NAME

PERMIT

Form WV6

A.R.L.B

DECIMAL LONG: 80.25756
 SURVEYED LONG. 80° 15' 27.2"

2,150'

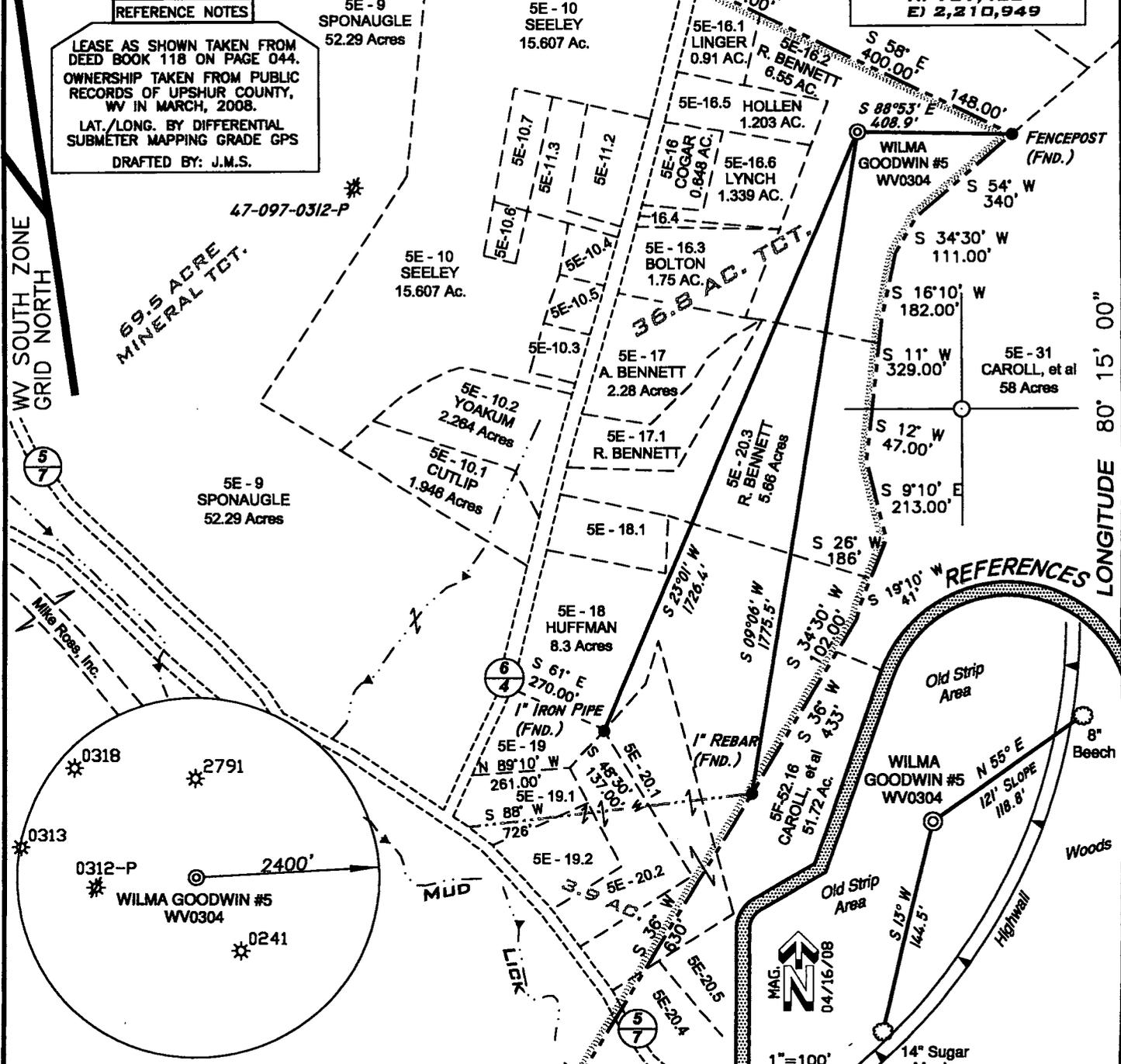
**WILMA GOODWIN LEASE
 WELL NO. 5 / WV0304
 36.8 AC. OF 193 AC.± LEASE**

LATITUDE 39° 02' 30"

**PROPOSED WELL
 STATE PLANE NAD 27
 COORDINATES
 N) 737,400
 E) 2,210,949**

REFERENCE NOTES

LEASE AS SHOWN TAKEN FROM DEED BOOK 118 ON PAGE 044. OWNERSHIP TAKEN FROM PUBLIC RECORDS OF UPSHUR COUNTY, WV IN MARCH, 2008.
 LAT./LONG. BY DIFFERENTIAL SUBMETER MAPPING GRADE GPS
 DRAFTED BY: J.M.S.



SURVEYED LAT. 39° 01' 21.7"
 DECIMAL LAT. 39.02269
 LONGITUDE 80° 15' 00"
 6,890'

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

FILE NUMBER **W08006 (WB10-33)**
 DRAWING NUMBER **W08006_5WV0304.dwg**
 SCALE **1"=400'**
 MINIMUM DEGREE OF ACCURACY **1/200**
 PROVEN SOURCE OF ELEVATION **SUBMETER MAPPING GRADE GPS**

I THE UNDERSIGNED HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

P.S. 2122 *Jonathan N. White*



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

DATE: **APRIL 29, 2008**
 OPERATORS' WELL NO. **WILMA GOODWIN #5 WV0304**
 API WELL NO. **47-097-03578**
 STATE **WV** COUNTY **UPSHUR** PERMIT **CELLED**

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION: STORAGE ___ DEEP ___ SHALLOW
 LOCATION ELEVATION **1563'** WATERSHED ___ TRIBUTARY OF **MUD LICK**

DISTRICT **BUCKHANNON** COUNTY **UPSHUR**
 QUADRANGLE **BERLIN 7.5'** LEASE NUMBER ___

SURFACE OWNER **ROGER LEE BENNETT** ACREAGE **6.55**
 OIL & GAS ROYALTY OWNER **WILMA R. GOODWIN, et al** LEASE ACREAGE **36.8 OF 193**

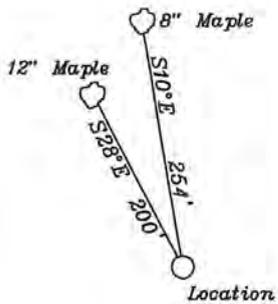
PROPOSED WORK: DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION ___
 PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE (SPECIFY) ___

TARGET FORMATION **BENSON** PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
 ESTIMATED DEPTH **5350'**

WELL OPERATOR **MOUNTAIN V OIL & GAS, INC.** DESIGNATED AGENT **MIKE SHAVER**
 ADDRESS **P.O. BOX 470, BRIDGEPORT, WV 26330**

COUNTY NAME PERMIT

References



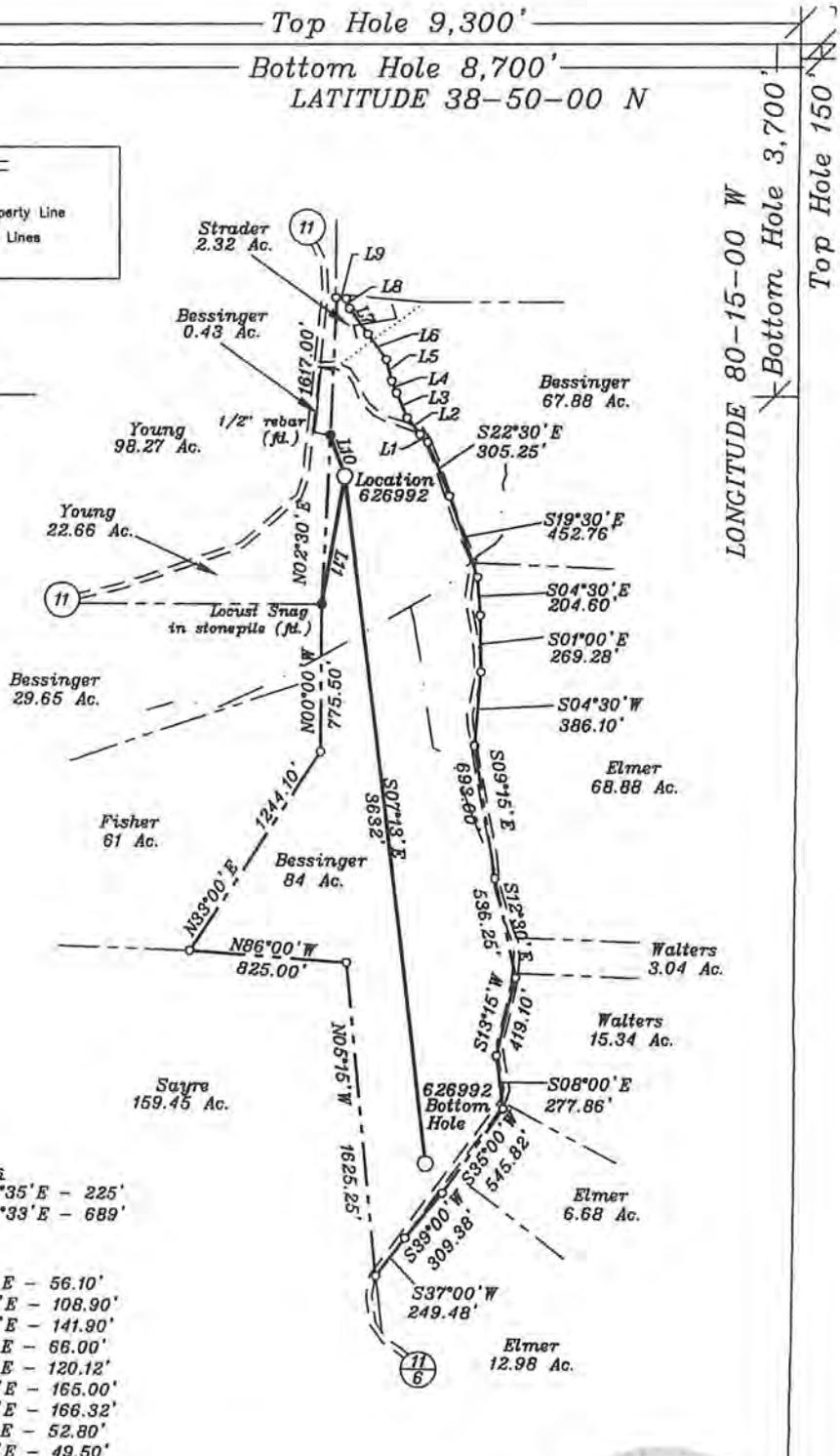
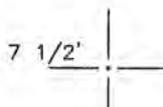
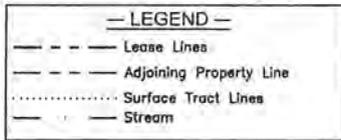
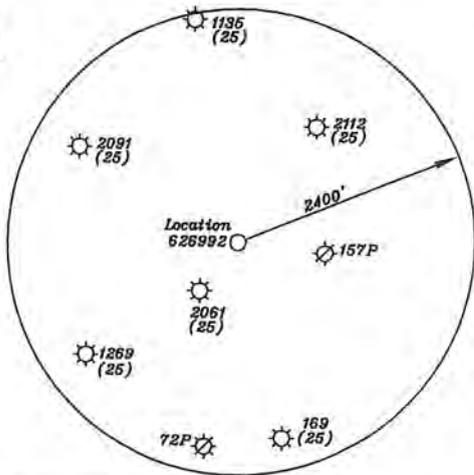
Top Hole
NAD27 Coordinates:
38.832872 N
80.282365 W

WGS84 Coordinates:
38.832974 N
80.282169 W

Bottom Hole
NAD27 Coordinates:
38.823050 N
80.280160 W

WGS84 Coordinates:
38.823152 N
80.279964 W

NORTH



Well Ties
L10: S19°35'E - 225'
L11: N09°33'E - 689'

L1: S66°00'E - 56.10'
L2: S38°00'E - 108.90'
L3: S23°00'E - 141.90'
L4: S22°15'E - 66.00'
L5: S14°00'E - 120.12'
L6: S36°00'E - 165.00'
L7: S35°00'E - 166.32'
L8: S19°30'E - 52.80'
L9: S86°00'E - 49.50'

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

FILE NO. Rock Cave 983-992
DRAWING NO. Bessinger 1
SCALE 1" = 1,000'
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION GPS
Submeter unit

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) _____
R.P.E. _____ L.L.S. 2159



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

DATE July 25, 2008
OPERATOR'S WELL NO. 626992
API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1,981' WATER SHED Crassy Creek
DISTRICT Banks COUNTY Upshur
QUADRANGLE Rock Cave 7 1/2'

47 - 097 - 03582-H
STATE COUNTY PERMIT

CANCELLED

SURFACE OWNER Craig Bessinger ACREAGE 84 Ac.
OIL & GAS ROYALTY OWNER Elizabeth Rose Strader LEASE ACREAGE 84 Ac.
LEASE NO. 1-215941-001

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION Marcellus ESTIMATED DEPTH 7225' TVD/10,976' MD
WELL OPERATOR Chesapeake Appalachia, LLC. DESIGNATED AGENT Michael John
ADDRESS P.O. Box 6070, Charleston, WV 25362-0070 ADDRESS P.O. Box 6070, Charleston, WV 25362-0070

COUNTY NAME PERMIT

DECIMAL LONG: 80.28813
SURVEYED LONG. 80° 17' 17.2"

10,830'

EUGENE SUDER LEASE WELL NO. 1C / WV0358 13.55± ACRES

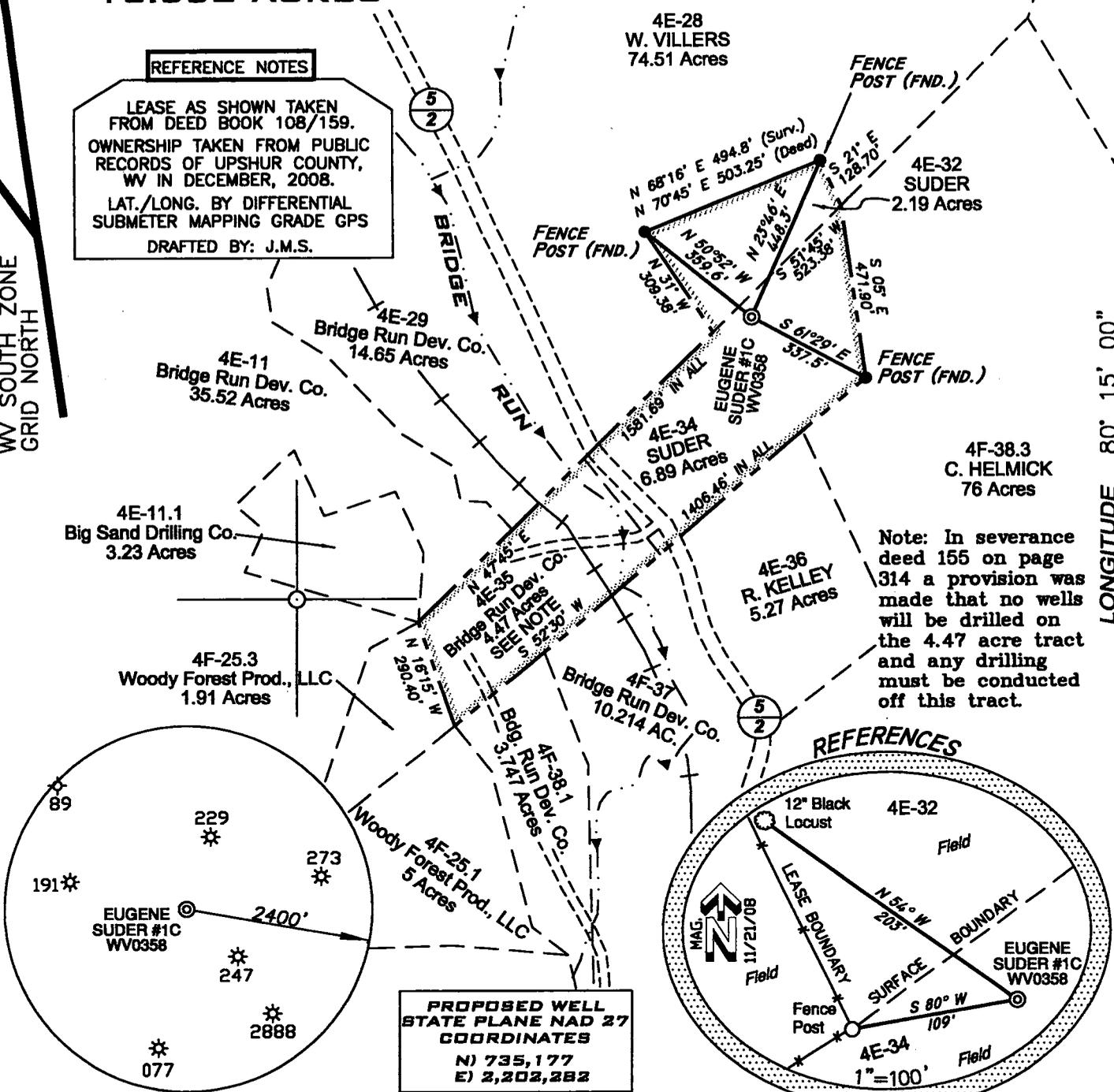
LATITUDE 39° 02' 30"

REFERENCE NOTES

LEASE AS SHOWN TAKEN FROM DEED BOOK 108/159.
OWNERSHIP TAKEN FROM PUBLIC RECORDS OF UPSHUR COUNTY, WV IN DECEMBER, 2008.
LAT./LONG. BY DIFFERENTIAL SUBMETER MAPPING GRADE GPS
DRAFTED BY: J.M.S.

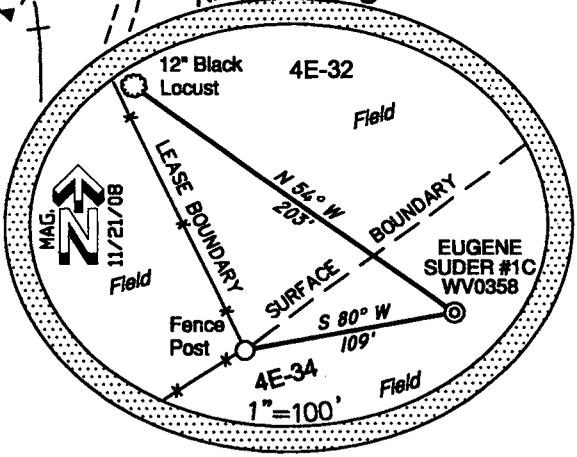
WV SOUTH ZONE
GRID NORTH

LONGITUDE 80° 15' 00"
SURVEYED LAT. 39° 01' 00.4"
DECIMAL LAT. 39.01677



PROPOSED WELL STATE PLANE NAD 27 COORDINATES
N) 735,177
E) 2,202,282

REFERENCES

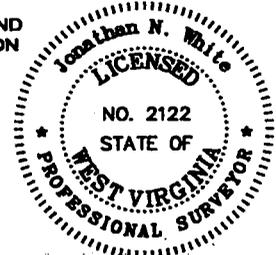


(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

FILE NUMBER W080153 (WB15-34)
DRAWING NUMBER W080153_1CWV0358.dwg
SCALE 1" = 400'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION SUBMETER MAPPING GRADE GPS

I THE UNDERSIGNED HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

P.S. 2122 *Jonathan N. White*



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

DATE: DECEMBER 2, 2008
EUGENE SUDER #1C
OPERATORS WELL NO. WV0358
API WELL NO. 47-097-03627
STATE WV COUNTY UPSHUR

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION: STORAGE DEEP SHALLOW
LOCATION ELEVATION 1517' WATERSHED BRIDGE RUN
DISTRICT BUCKHANNON COUNTY UPSHUR
QUADRANGLE BERLIN 7.5' LEASE NUMBER

SURFACE OWNER MARY LOUISE (McCORD) SUDER ACREAGE 6.89±
OIL & GAS ROYALTY OWNER MARY LOUISE (McCORD) SUDER LEASE ACREAGE 13.55±
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY)
PLUG & ABANDON CLEAN OUT & REPLUG
TARGET FORMATION BENSON ESTIMATED DEPTH 4805'
WELL OPERATOR MOUNTAIN V OIL & GAS, INC. DESIGNATED AGENT MIKE SHAVER
ADDRESS P.O. BOX 470, BRIDGEPORT, WV 26330 ADDRESS P.O. BOX 470, BRIDGEPORT, WV 26330

CANCELLED

COUNTY NAME
PERMIT

DECIMAL LONG: 80.13428
SURVEYED LONG. 80° 08' 03.4"

2,630'

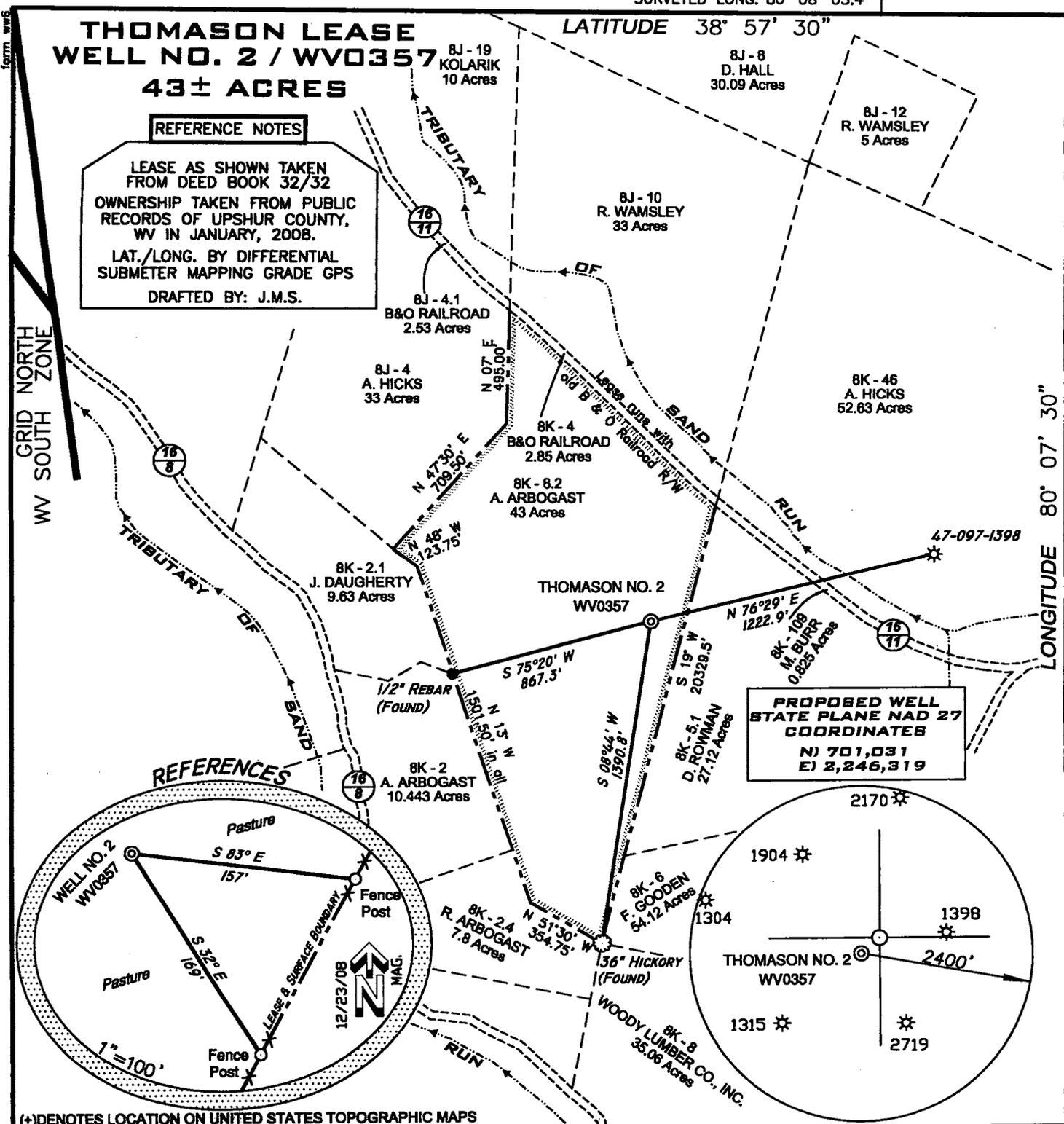
THOMASON LEASE WELL NO. 2 / WV0357 43± ACRES

LATITUDE 38° 57' 30"

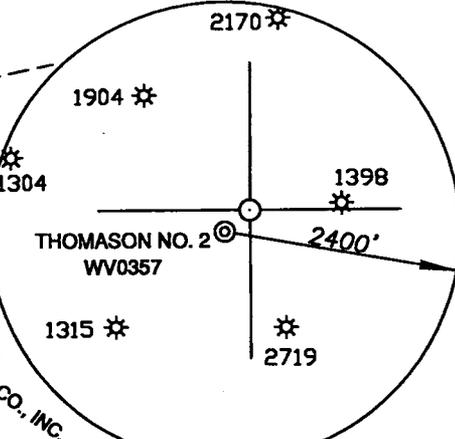
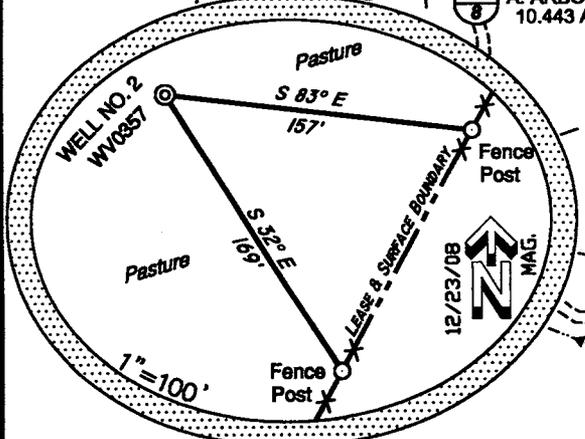
REFERENCE NOTES

LEASE AS SHOWN TAKEN FROM DEED BOOK 32/32
OWNERSHIP TAKEN FROM PUBLIC RECORDS OF UPSHUR COUNTY, WV IN JANUARY, 2008.
LAT./LONG. BY DIFFERENTIAL SUBMETER MAPPING GRADE GPS
DRAFTED BY: J.M.S.

GRID NORTH
WV SOUTH ZONE



REFERENCES



(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

FILE NUMBER W080139 (WB15-44)

DRAWING NUMBER W080139_2WV0357.dwg

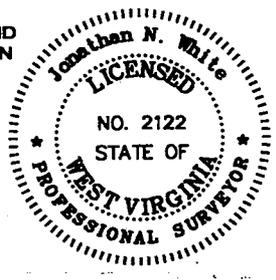
SCALE 1" = 600'

MINIMUM DEGREE OF ACCURACY 1/200

PROVEN SOURCE OF ELEVATION SUBMETER MAPPING GRADE GPS

I THE UNDERSIGNED HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

P.S. 2122 *Jonathan N. White*



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

DATE: DECEMBER 31, 2008
THOMASON NO. 2

OPERATORS WELL NO. WV0357

API WELL NO. 47-097-03629

STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION: STORAGE DEEP SHALLOW
LOCATION ELEVATION 2038' WATERSHED TRIBUTARY OF SAND RUN

CANCELLED

DISTRICT WASHINGTON COUNTY UPSHUR
QUADRANGLE BUCKHANNON 7.5' LEASE NUMBER

SURFACE OWNER ALFRED W. & LISA M. ARBOGAST ACREAGE 43
OIL & GAS ROYALTY OWNER SHELIA E. THOMASON, et al LEASE ACREAGE 43

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

TARGET FORMATION BENSON PLUG & ABANDON CLEAN OUT & REPLUG
ESTIMATED DEPTH 3910'

WELL OPERATOR MOUNTAIN V OIL & GAS, INC. DESIGNATED AGENT MIKE SHAVER

ADDRESS P.O. BOX 470, BRIDGEPORT, WV 26330 ADDRESS P.O. BOX 470, BRIDGEPORT, WV 26330

LONGITUDE 80° 07' 30"
SURVEYED LAT. 38° 55' 19.2"
DECIMAL LAT. 38.92199

COUNTY NAME
PERMIT

DECIMAL LONG: 80.24819
 SURVEYED LONG. 80° 14' 53.5"

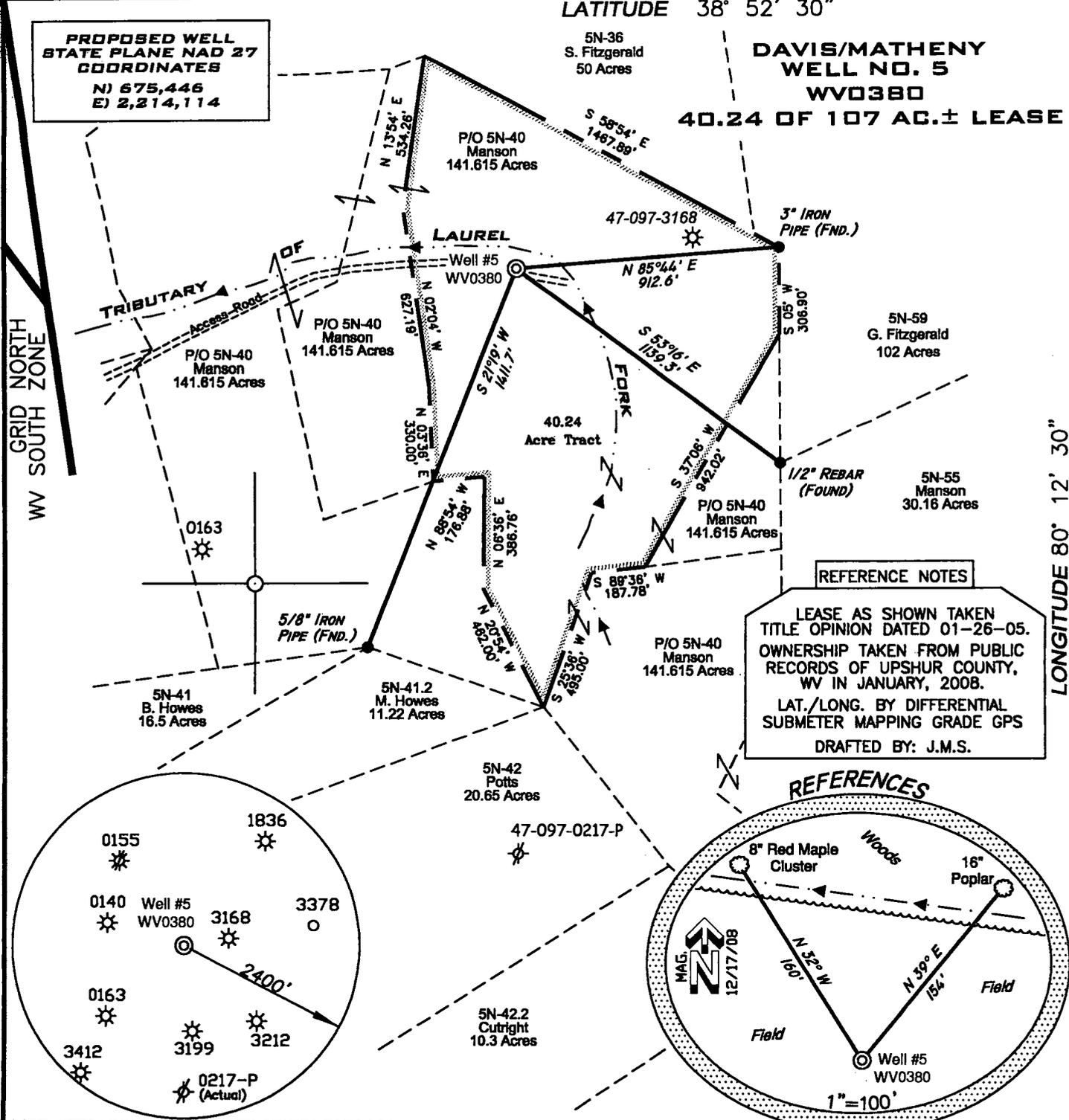
11,350'

LATITUDE 38° 52' 30"

PROPOSED WELL STATE PLANE NAD 27 COORDINATES
 N) 675,446
 E) 2,214,114

DAVIS/MATHENY WELL NO. 5
WV0380

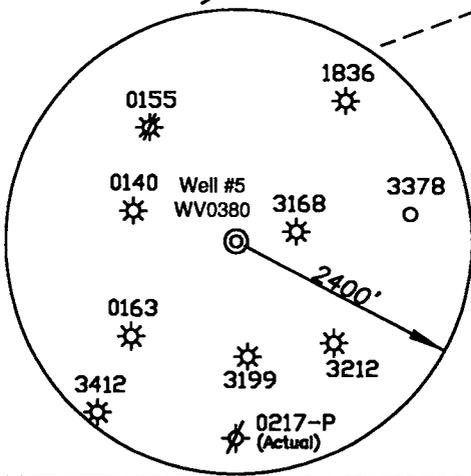
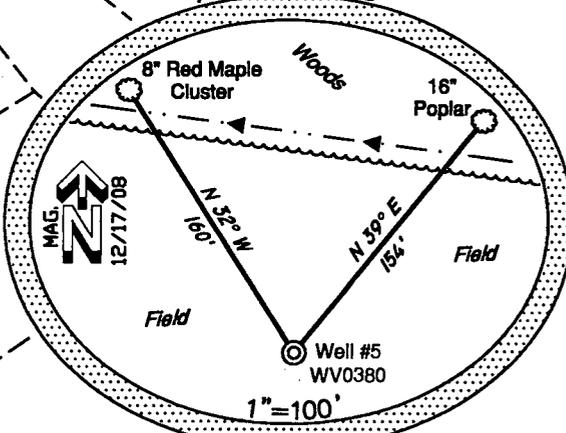
40.24 OF 107 AC.± LEASE



REFERENCE NOTES

LEASE AS SHOWN TAKEN TITLE OPINION DATED 01-26-05. OWNERSHIP TAKEN FROM PUBLIC RECORDS OF UPSHUR COUNTY, WV IN JANUARY, 2008. LAT./LONG. BY DIFFERENTIAL SUBMETER MAPPING GRADE GPS DRAFTED BY: J.M.S.

REFERENCES

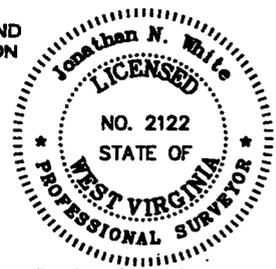


(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

FILE NUMBER W080017 (WB15-39)
 DRAWING NUMBER W080017_5WV0380.dwg
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION SUBMETER MAPPING GRADE GPS

I THE UNDERSIGNED HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

P.S. 2122 *Jonathan N. White*



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

DATE: DECEMBER 29, 2008

DAVIS/MATHENY NO.5

OPERATORS WELL NO. WV0380

API WELL NO. 47-097-031630

STATE WV COUNTY UPSHUR PERMIT CANCELLED

LOCATION ELEVATION 1876' WATERSHED TRIBUTARY OF LAUREL FORK

DISTRICT MEADE COUNTY UPSHUR

QUADRANGLE ALTON 7.5' LEASE NUMBER _____

SURFACE OWNER Sandy L. Manson ACREAGE 141.615

OIL & GAS ROYALTY OWNER Sella Matheny, heirs LEASE ACREAGE 40.24 OF 107

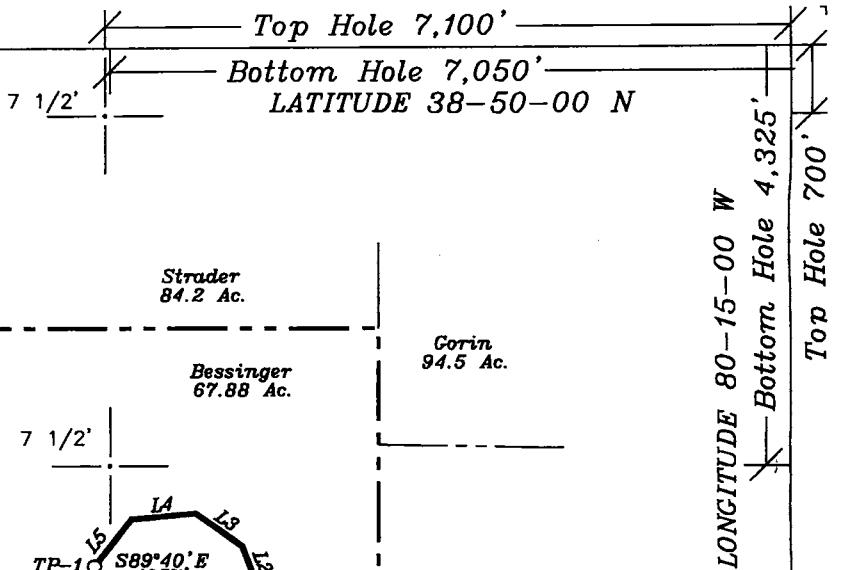
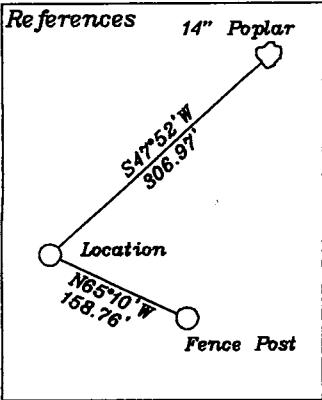
PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE (SPECIFY) _____

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7160'

WELL OPERATOR MOUNTAIN V OIL & GAS, INC. DESIGNATED AGENT MIKE SHAVER

ADDRESS P.O. BOX 470, BRIDGEPORT, WV 26330

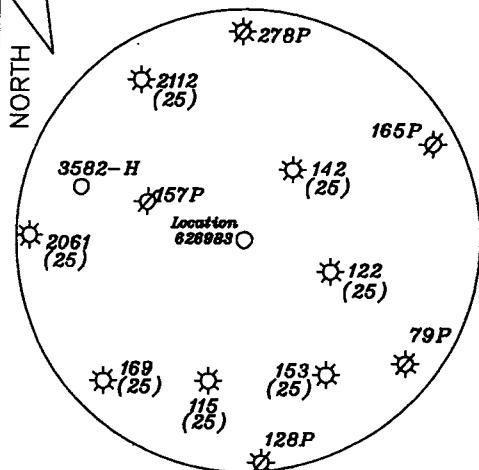
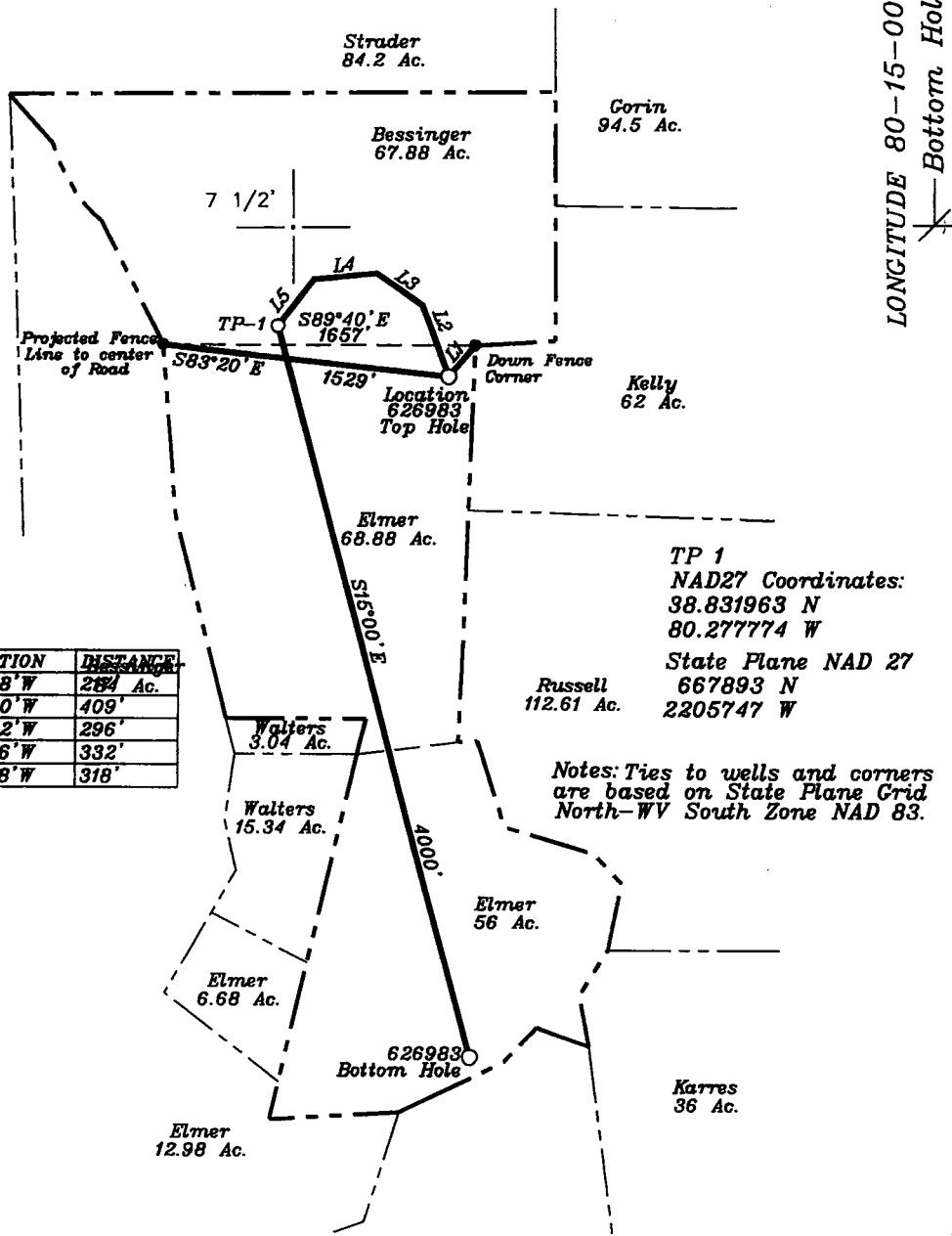
8,180'
 LONGITUDE 80° 12' 30"
 SURVEYED LAT. 38° 51' 09.1"
 DECIMAL LAT. 38.85252



Top Hole
WGS84 Coordinates:
38.831295 N
80.274403 W
NAD27 Coordinates:
38.831193 N
80.274599 W
State Plane NAD 27
667620 N
2206654 W

Bottom Hole
NAD27 Coordinates:
38.821332 N
80.274247 W
WGS84 Coordinates:
38.821434 N
80.274050 W
State Plane NAD 27
664029 N
2206782 W

NUMBER	DIRECTION	DISTANCE
L1	S39°28'W	284' Ac.
L2	N20°00'W	409'
L3	N54°42'W	296'
L4	S84°36'W	332'
L5	S37°48'W	318'

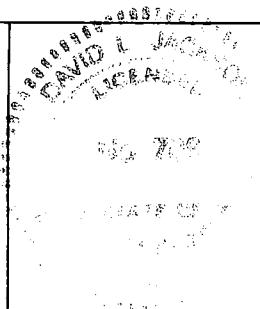


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1,000'
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION GPS
Submeter unit

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) David Jackson
R.P.E. _____ L.L.S. 708



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

DATE March 5, 2009
OPERATOR'S WELL NO. 626983-6H
API WELL NO. _____

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

LOCATION: ELEVATION 2,097' WATER SHED Grassy Creek
DISTRICT Meade COUNTY Upshur

QUADRANGLE Rock Cave 7 1/2' ACREAGE 68.88 Ac.

SURFACE OWNER Thomas Elmer & Charles Elmer
OIL & GAS ROYALTY OWNER Clara Beth & David Lee Bramble LEASE ACREAGE 71 Ac.
LEASE NO. 3055433, 3055508, 3055276, 1216435-001, & 1216435-002

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION Marcellus ESTIMATED DEPTH 7,337' + Horizontal Leg
WELL OPERATOR Chesapeake Appalachia, LLC. DESIGNATED AGENT Michael John
ADDRESS P.O. Box 6070, Charleston, WV 25362-0070 ADDRESS P.O. Box 6070, Charleston, WV 25362-0070

47 - 097 D3652H
CANCELLED

COUNTY NAME
PERMIT

Top Hole 7,100'

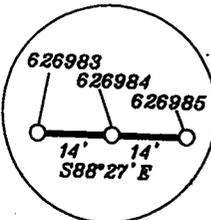
Bottom Hole 5,150'
LATITUDE 38-50-00 N

LONGITUDE 80-15-00 W

Bottom Hole 3,900'

Top Hole 700'

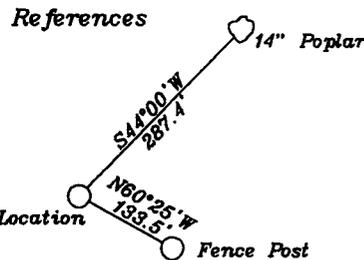
NUMBER	DIRECTION	DISTANCE
L1	S33°10' W	201'
L2	N20°00' E	423'
L3	N40°00' E	292'
L4	N75°59' E	403'
L5	S78°24' E	318'



Top Hole
NAD27 Coordinates:
38.831191 N
80.274501 W
WGS84 Coordinates:
38.831293 N
80.274305 W
State Plane NAD 27
667619 N
2206682 W

Bottom Hole
NAD27 Coordinates:
38.822712 N
80.267452 W
WGS84 Coordinates:
38.822814 N
80.267256 W
State Plane NAD 27
664547 N
2208714 W

TP 1
NAD27 Coordinates:
38.832965 N
80.270854 W
State Plane NAD 27
668273 N
2207716 W



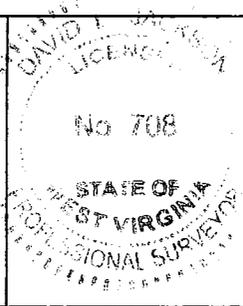
Notes: Ties to wells and corners are based on State Plane Grid North-WV South Zone NAD 83.

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

FILE NO. _____
DRAWING NO. 2
SCALE 1" = 1,000'
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION GPS
Submeter unit

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) David L Jackson
R.P.E. _____ L.L.S. 708



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

DATE April 28, 2009
OPERATOR'S WELL NO. 626985
API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 2,097' WATER SHED Grassy Creek
DISTRICT Meade COUNTY Upshur
QUADRANGLE Rock Cave 7 1/2'

CANCELLED

SURFACE OWNER Thomas Elmer & Charles Elmer ACREAGE 68.88 Ac.
OIL & GAS ROYALTY OWNER Clara Beth & David Lee Bramble LEASE ACREAGE 71 Ac.
LEASE NO. 3055276-000, 3055508-000, 3055433-000 & 3054683-000

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION Marcellus ESTIMATED DEPTH 7,337' + Horizontal Leg
WELL OPERATOR Chesapeake Appalachia, LLC. DESIGNATED AGENT Michael John
ADDRESS P.O. Box 6070, Charleston, WV 25362-0070 ADDRESS P.O. Box 6070, Charleston, WV 25362-0070

COUNTY NAME _____ PERMIT _____

1,360'

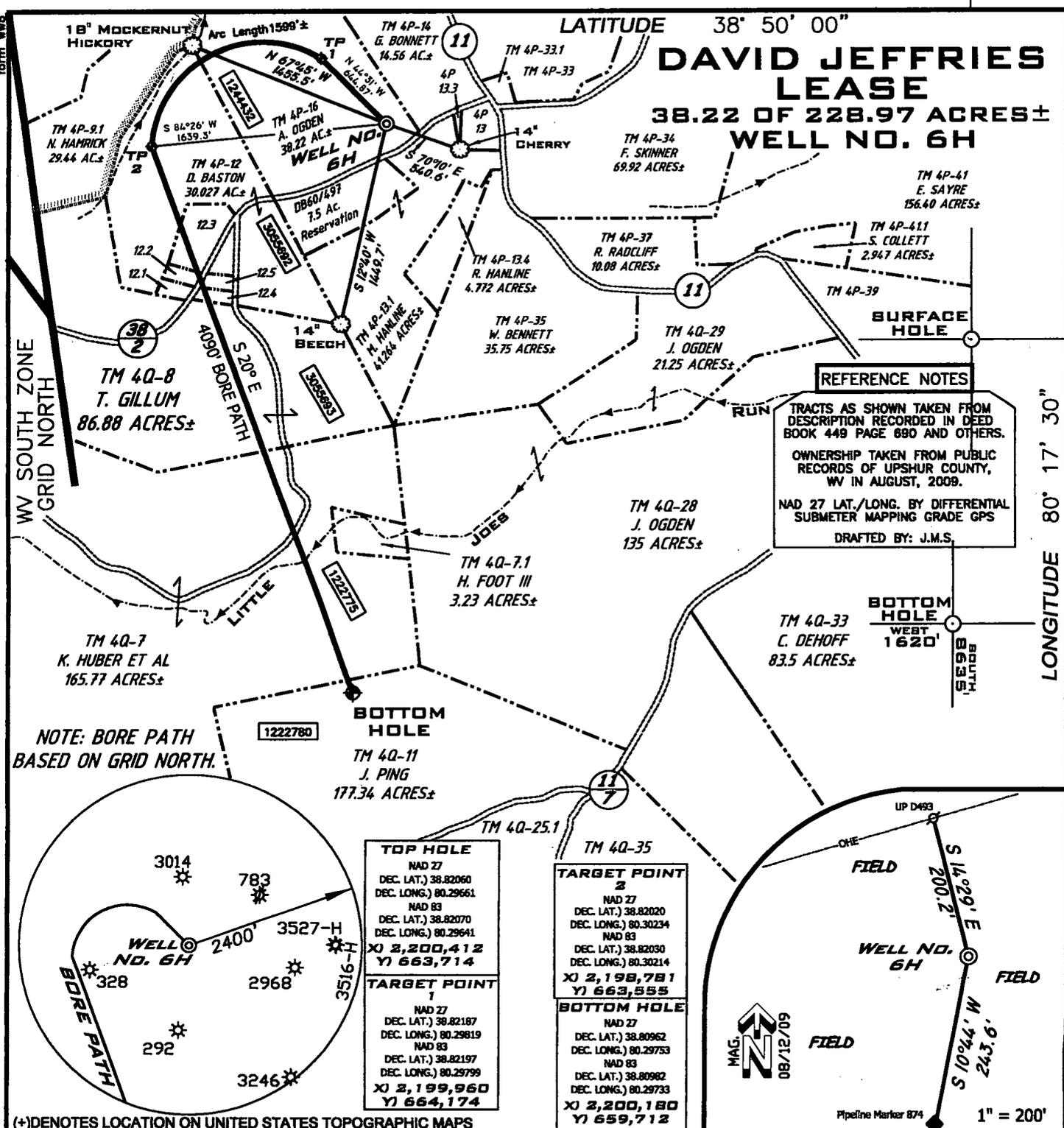
4,635'

LATITUDE 38° 50' 00"

DAVID JEFFRIES LEASE

38.22 OF 228.97 ACRES±

WELL NO. 6H



REFERENCE NOTES

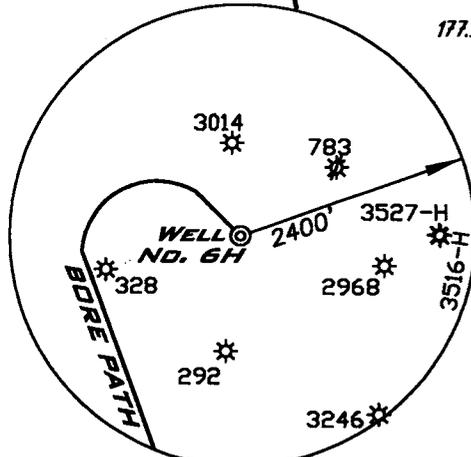
TRACTS AS SHOWN TAKEN FROM DESCRIPTION RECORDED IN DEED BOOK 449 PAGE 680 AND OTHERS.

OWNERSHIP TAKEN FROM PUBLIC RECORDS OF UPSHUR COUNTY, WV IN AUGUST, 2009.

NAD 27 LAT./LONG. BY DIFFERENTIAL SUBMETER MAPPING GRADE GPS

DRAFTED BY: J.M.S.

NOTE: BORE PATH BASED ON GRID NORTH.



TOP HOLE
 NAD 27
 DEC. LAT.) 38.82060
 DEC. LONG.) 80.29661
 NAD 83
 DEC. LAT.) 38.82070
 DEC. LONG.) 80.29641
 X) 2,200,412
 Y) 663,714

TARGET POINT 1
 NAD 27
 DEC. LAT.) 38.82187
 DEC. LONG.) 80.29819
 NAD 83
 DEC. LAT.) 38.82197
 DEC. LONG.) 80.29799
 X) 2,199,960
 Y) 664,174

TARGET POINT 2
 NAD 27
 DEC. LAT.) 38.82020
 DEC. LONG.) 80.30234
 NAD 83
 DEC. LAT.) 38.82030
 DEC. LONG.) 80.30214
 X) 2,198,781
 Y) 663,555

BOTTOM HOLE
 NAD 27
 DEC. LAT.) 38.80962
 DEC. LONG.) 80.29753
 NAD 83
 DEC. LAT.) 38.80962
 DEC. LONG.) 80.29733
 X) 2,200,180
 Y) 659,712

FILE NUMBER W090197 (WB14-52)

DRAWING NUMBER W090197_6H.dwg

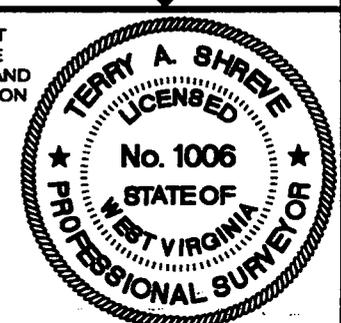
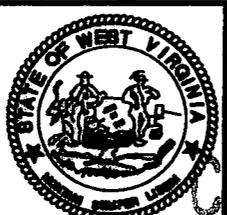
SCALE 1" = 1000'

MINIMUM DEGREE OF ACCURACY 1/200

PROVEN SOURCE OF ELEVATION SUBMETER MAPPING
GRADE GPS

I THE UNDERSIGNED HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

P.S. 1006 *[Signature]*



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

DATE: AUGUST 26, 2009

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

OPERATORS WELL NO. DAVID JEFFRIES 6H
API WELL NO. 47-097-03668H
STATE COUNTY PERMIT

LOCATION ELEVATION 1915' WATERSHED LITTLE JOES RUN AND UNNAMED TRIBUTARY OF LITTLE KANAWHA RIVER
DISTRICT BANKS COUNTY UPSHUR
QUADRANGLE ROCK CAVE 7.5' LEASE NUMBER 1244432,3055692,30556933,1222775,1222780

SURFACE OWNER ABIGAIL F. OGDEN ACREAGE 38.22
OIL & GAS ROYALTY OWNER ABIGAIL F. JEFFRIES, et vir LEASE ACREAGE 228.97

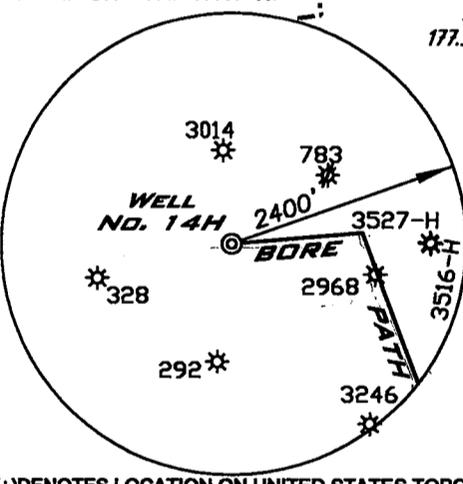
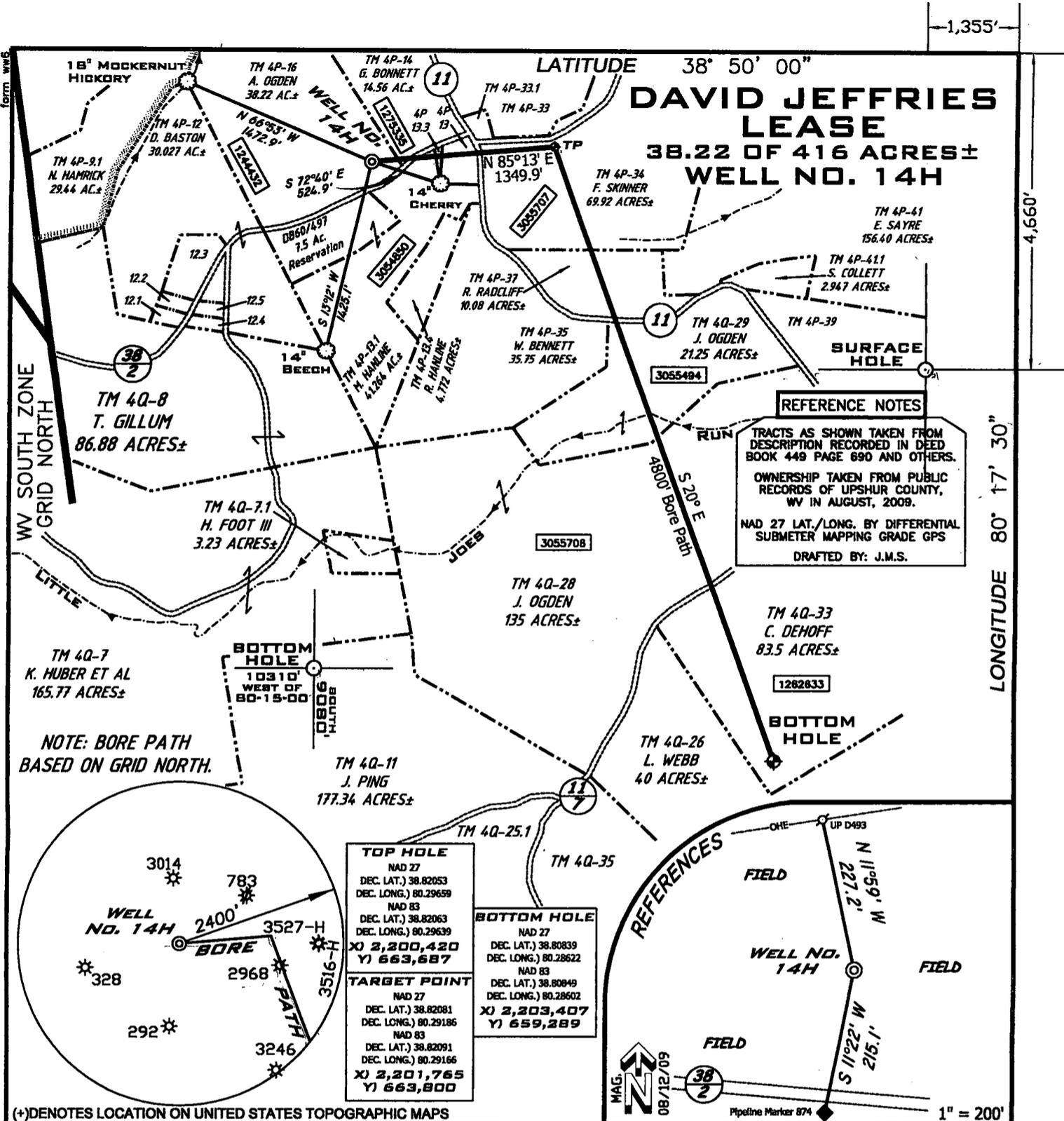
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) _____

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7255' + Horizontal Leg
PLUG & ABANDON CLEAN OUT & REPLUG

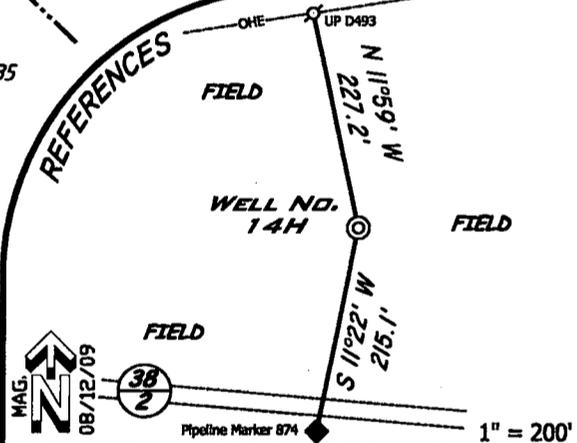
WELL OPERATOR CHESAPEAKE APPALACHIA, L.L.C. DESIGNATED AGENT JAMES E. GREY
ADDRESS P.O. BOX 18496 OKLAHOMA CITY, OK 73154-0496 ADDRESS P.O. BOX 6070 CHARLESTON, WV 25362

COUNTY NAME PERMIT

CANCELLED



TOP HOLE	NAD 27 DEC. LAT.) 38.82053 DEC. LONG.) 80.29659
	NAD 83 DEC. LAT.) 38.82063 DEC. LONG.) 80.29639
	X) 2,200,420 Y) 663,687
TARGET POINT	NAD 27 DEC. LAT.) 38.82081 DEC. LONG.) 80.29186
	NAD 83 DEC. LAT.) 38.82091 DEC. LONG.) 80.29166
	X) 2,201,765 Y) 663,800



FILE NUMBER W090197 (WB14-52)

DRAWING NUMBER W090197_14H.dwg

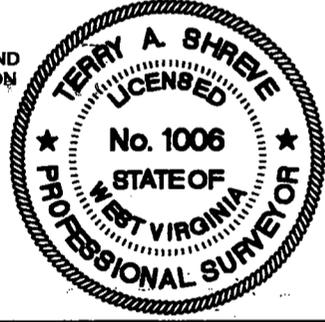
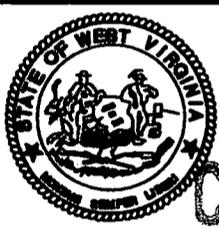
SCALE 1" = 1000'

MINIMUM DEGREE OF ACCURACY 1/200

PROVEN SOURCE OF ELEVATION SUBMETER MAPPING
GRADE GPS

I THE UNDERSIGNED HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

P.S. 1008



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

DATE: AUGUST 31, 2009
OPERATORS Abigail Ogden
DAVID JEFFRIES 14H
WELL NO. 831494

CANCELLED

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

LOCATION ELEVATION 1915' WATERSHED LITTLE JOES RUN AND UNNAMED TRIBUTARY OF LITTLE KANAWHA RIVER
DISTRICT BANKS COUNTY UPSHUR
QUADRANGLE ROCK CAVE 7.5' LEASE NUMBER 1244432,1275335,3054850,3055707,3055494,1262633

SURFACE OWNER ABIGAIL F. OGDEN ACREAGE 38.22
OIL & GAS ROYALTY OWNER ABIGAIL F. JEFFRIES, et vir LEASE ACREAGE 416

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

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7255' + Horizontal Leg
PLUG & ABANDON CLEAN OUT & REPLUG

WELL OPERATOR CHESAPEAKE APPALACHIA, L.L.C. DESIGNATED AGENT JAMES E. GREY
ADDRESS P.O. BOX 18496 OKLAHOMA CITY, OK 73154-0496 ADDRESS P.O. BOX 6070 CHARLESTON, WV 25362

COUNTY NAME PERMIT

WELL NO. 8H

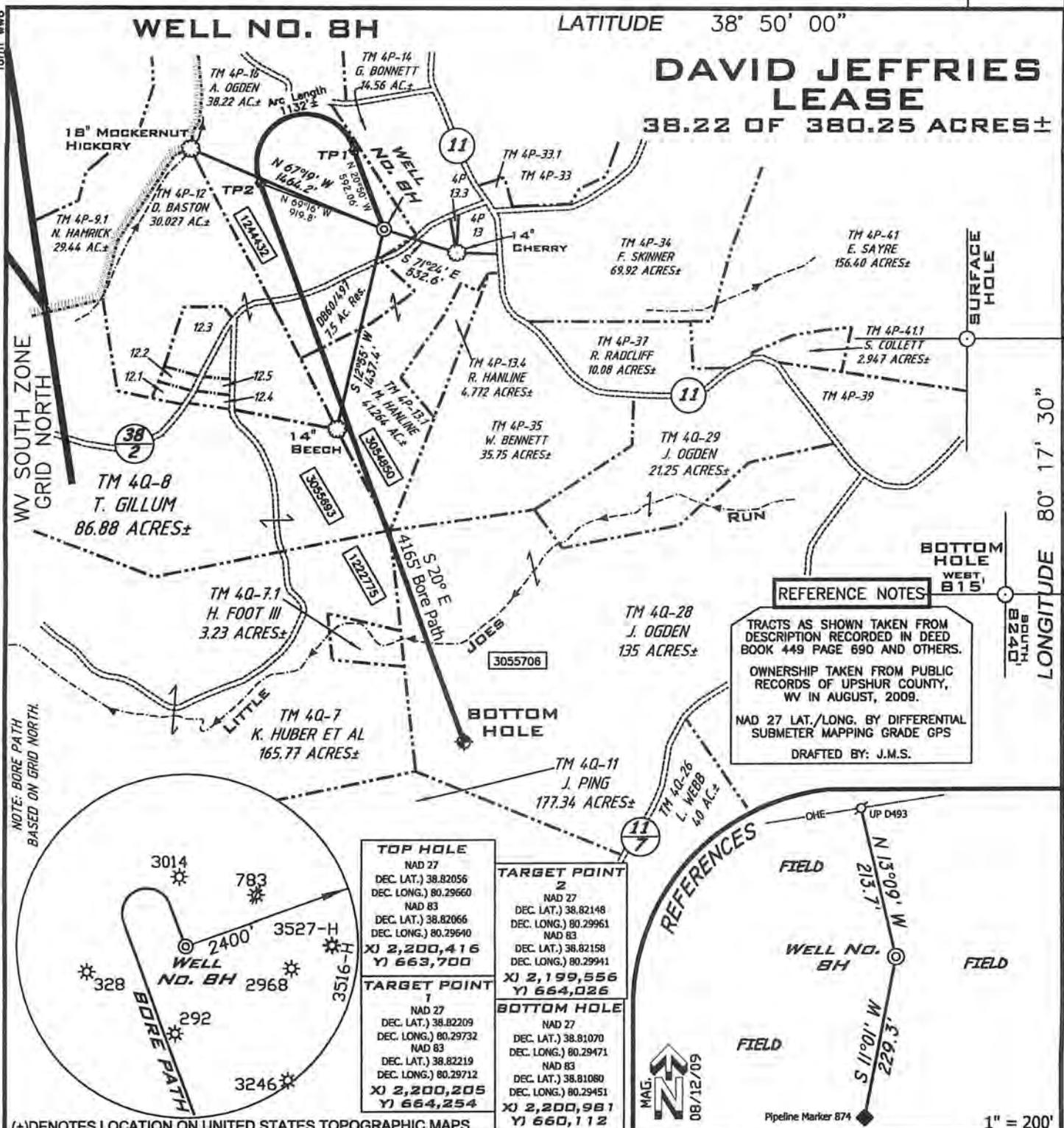
LATITUDE 38° 50' 00"

DAVID JEFFRIES LEASE 38.22 OF 380.25 ACRES±

WV SOUTH ZONE GRID NORTH

LONGITUDE 80° 17' 30"

NOTE: BORE PATH BASED ON GRID NORTH



REFERENCE NOTES: TRACTS AS SHOWN TAKEN FROM DESCRIPTION RECORDED IN DEED BOOK 449 PAGE 690 AND OTHERS. OWNERSHIP TAKEN FROM PUBLIC RECORDS OF UPSHUR COUNTY, WV IN AUGUST, 2009. NAD 27 LAT./LONG. BY DIFFERENTIAL SUBMETER MAPPING GRADE GPS. DRAFTED BY: J.M.S.

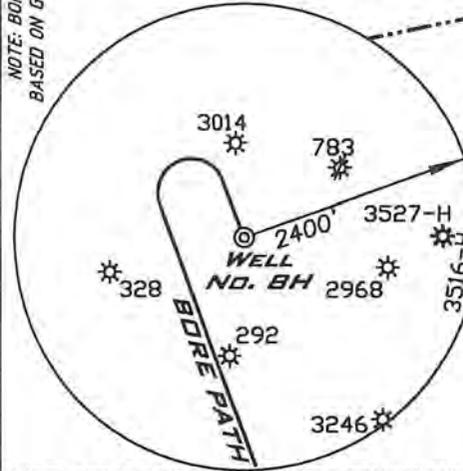
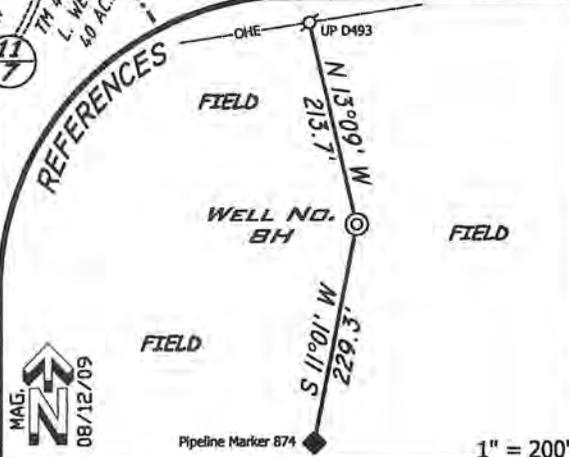


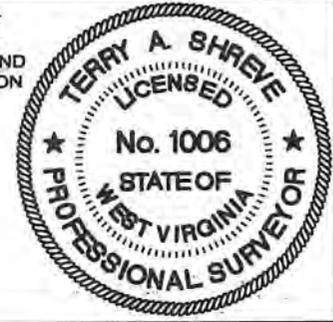
Table with 4 columns: Point Name, NAD 27 coordinates, NAD 83 coordinates, and UTM coordinates. Rows include TOP HOLE, TARGET POINT 1, TARGET POINT 2, and BOTTOM HOLE.



FILE NUMBER W090197 (WB14-52)
DRAWING NUMBER W090197_8H.dwg
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION SUBMETER MAPPING GRADE GPS

I THE UNDERSIGNED HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

P.S. 1006 [Signature]



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

DATE: AUGUST 26, 2009
831326 Abigail Ogden & H
OPERATORS WELL NO. DAVID JEFFRIES 8H
API WELL NO.

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

LOCATION ELEVATION 1915' WATERSHED LITTLE JOES RUN AND UNNAMED TRIBUTARY OF LITTLE KANAWHA RIVER
DISTRICT BANKS COUNTY UPSHUR
QUADRANGLE ROCK CAVE 7.5' LEASE NUMBER 1244432,3054850,3055706,1222775,3055693

SURFACE OWNER ABIGAIL F. OGDEN ACREAGE 38.22
OIL & GAS ROYALTY OWNER ABIGAIL F. JEFFRIES, et vir LEASE ACREAGE 380.25

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

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7255' + Horizontal Leg

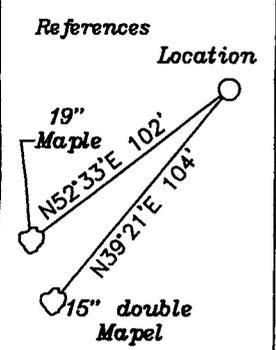
WELL OPERATOR CHESAPEAKE APPALACHIA, L.L.C. DESIGNATED AGENT JAMES E. GREY
ADDRESS P.O. BOX 18496 OKLAHOMA CITY, OK 73154-0496 ADDRESS P.O. BOX 6070 CHARLESTON, WV 25362

CANCELLED

COUNTY NAME PERMIT

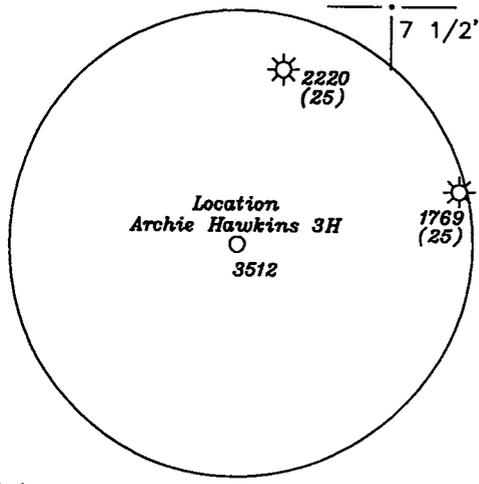
Top Hole 8,550'
Bottom Hole 11,300'
LATITUDE 38-50-00 N

NUMBER	DIRECTION	DISTANCE
L1	S86°45'E	476'
L2	S00°27'E	903'



Notes: Ties to wells and corners are based on State Plane Grid North-WV South Zone NAD 83.

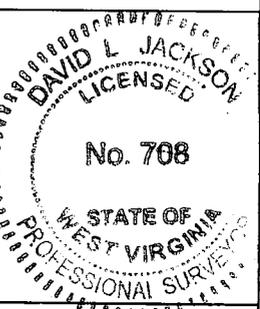
Top Hole
NAD 27-38.792118 N, 80.279797 W
NAD 83-38.792221 N, 80.279601 W
State Plane NAD 27-653377.5 N. 2205283.5 E
TP 1
NAD 27-38.793314 N, 80.277712 W
NAD 83-38.793417 N, 80.277515 W
State Plane NAD 27-653818 N. 2205874 E
Bottom Hole
NAD 27-38.804459 N, 80.289118 W
NAD 83-38.804561 N, 80.288922 W
State Plane NAD 27-657851 N. 2202592 E



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

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

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) David L Jackson
R.P.E. _____ L.I.S. 708



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

DATE September 22, 2009
OPERATOR'S WELL NO. Archie Hawkins 3H 626986
API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL STATE 47 COUNTY UPPER MERITT
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 2,108' WATER SHED Little Kanawha River
DISTRICT Banks COUNTY Upshur
QUADRANGLE Rock Cave 7 1/2'

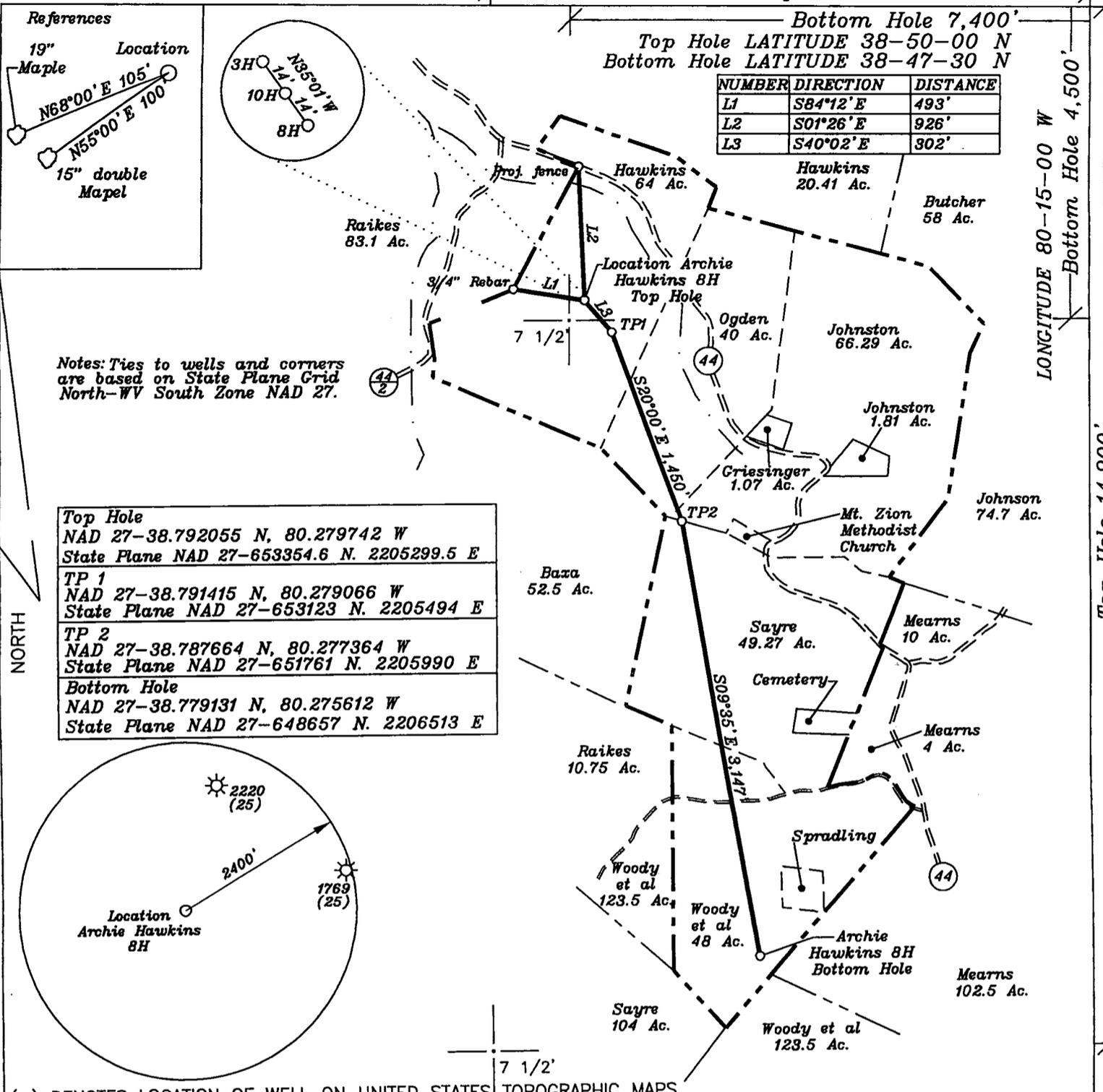
SURFACE OWNER Archie Hawkins ACREAGE 106.03 ac.
OIL & GAS ROYALTY OWNER Archie Hawkins LEASE ACREAGE 236.87 ac
LEASE NO. 1215120, 1220742, 1253188, 1253155, 1220742 & 3055698

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

PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION Marcellus ESTIMATED DEPTH 7,198'+ Horizontal leg
WELL OPERATOR Chesapeake Appalachia, L.L.C. DESIGNATED AGENT James E. Grey
ADDRESS P.O. Box 18496 Oklahoma City, OK 73154-0496 ADDRESS P.O. Box 6070 Charleston, WV 25362

CANCELLED



NORTH

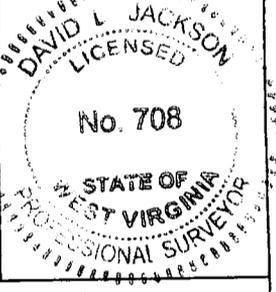
LONGITUDE 80-15-00 W
 Bottom Hole 4,500'

Top Hole 14,900'

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

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

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) David L Jackson
 R.P.E. _____ L.S. 708



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

DATE October 28 2009
 OPERATOR'S WELL NO. Archie Hawkins 8H
 API WELL NO. 626987

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

LOCATION: ELEVATION 2,108' WATER SHED Little Kanawha River
 DISTRICT Banks COUNTY Upshur
 QUADRANGLE Rock Cave 7 1/2'

SURFACE OWNER Archie Hawkins ACREAGE 66.03 ac.
 OIL & GAS ROYALTY OWNER Archie Hawkins LEASE ACREAGE 247.41 ac
 LEASE NO. 1215120, 1255665, 1231599, 1262687 & 1240772

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

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Marcellus ESTIMATED DEPTH 7,198' + Horizontal leg
 WELL OPERATOR Chesapeake Appalachia, L.L.C. DESIGNATED AGENT James E. Grey
 ADDRESS P.O. Box 18496 Oklahoma City, OK 73154-0496 ADDRESS P.O. Box 6070 Charleston, WV 25362

CANCELLED

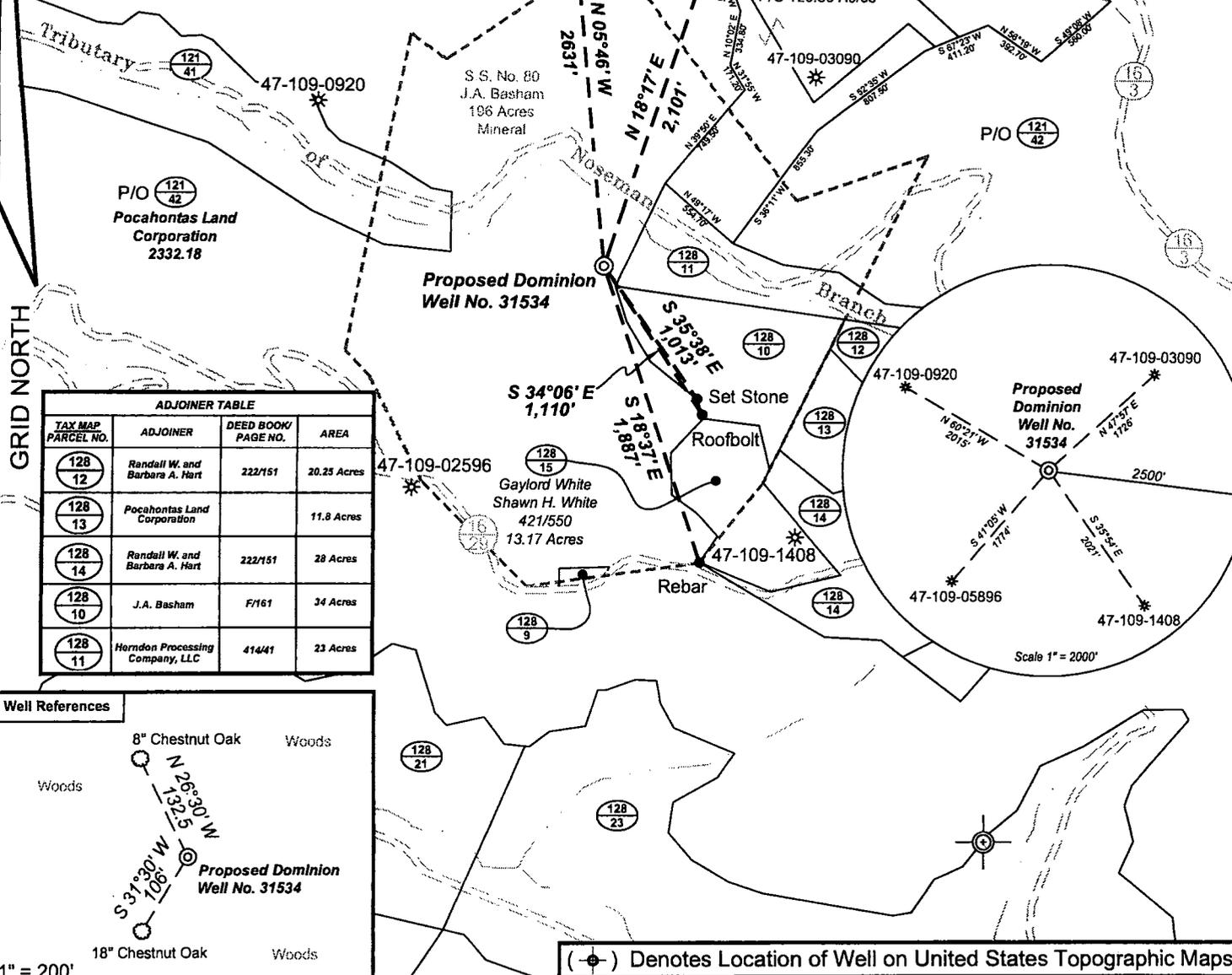
Dominion Well No. 31534
Dominion Exploration and Production, Inc.
103,420 Acre Lease

LATITUDE 37 - 32 - 30

Notes:
 Well site coordinates are
 N: 183,020 Lat: 37-30-08.0
 E: 1,911,972 Long: 81-18-12.4

West Virginia Coordinate System of 1927 (South Zone) based upon Differential GPS Measurements.
 Plat orientation, corner and well ties are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

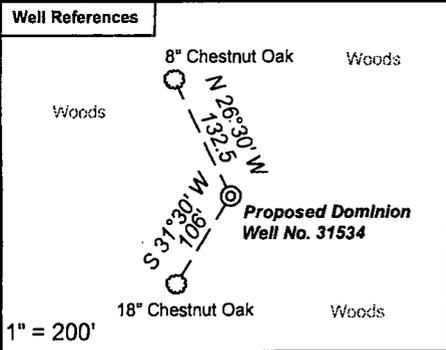
⊙ Proposed Gas Well
 — Surface Tract Lines
 - - - Mineral Line



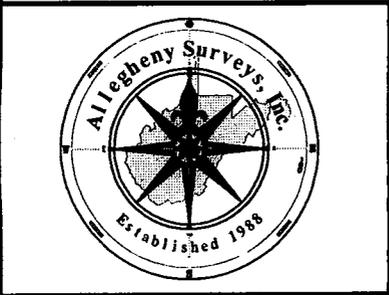
GRID NORTH

LONGITUDE 81 - 17 - 30

ADJOINER TABLE			
TAX MAP PARCEL NO.	ADJOINER	DEED BOOK/PAGE NO.	AREA
128 12	Randall W. and Barbara A. Hart	222/151	20.25 Acres
128 13	Pocahontas Land Corporation		11.8 Acres
128 14	Randall W. and Barbara A. Hart	222/151	28 Acres
128 10	J.A. Basham	F/161	34 Acres
128 11	Herndon Processing Company, LLC	414/41	23 Acres

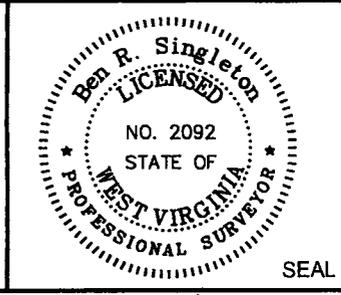


(⊙) Denotes Location of Well on United States Topographic Maps



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.

Ben R. Singleton
 P.S. 2092



FILE NO: W-158-22-BR-04
 DRAWING NO: W158-04 31534 plat.dwg
 SCALE: 1" = 1000'
 MINIMUM DEGREE OF ACCURACY: 1:2500
 PROVEN SOURCE OF ELEVATION: NGS CORS Station

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

DATE: September 29 20 09
 OPERATOR'S WELL NO. 31534
 API WELL NO 47 - 109 - 03109

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: 2483' WATERSHED Tributary of Noseman Branch QUADRANGLE: Rhodell
 DISTRICT: Barkers Ridge COUNTY: Wyoming
 SURFACE OWNER: Pocahontas Land Corporation ACREAGE: 2332.18
 OIL AND GAS ROYALTY OWNER: Penn Virginia Oil & Gas Company LEASE NO: 79917 ACREAGE: 103,420
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Big Lime ESTIMATED DEPTH: 3710

CANCELLED

WELL OPERATOR: Dominion Exploration & Production, Inc. DESIGNATED AGENT: VP/Operations - Rodney Biggs
 ADDRESS: One Dominion Drive, P.O. Box 1248 ADDRESS: One Dominion Drive, P.O. Box 1248
 Jane Lew, WV 26378 Jane Lew, WV 26378