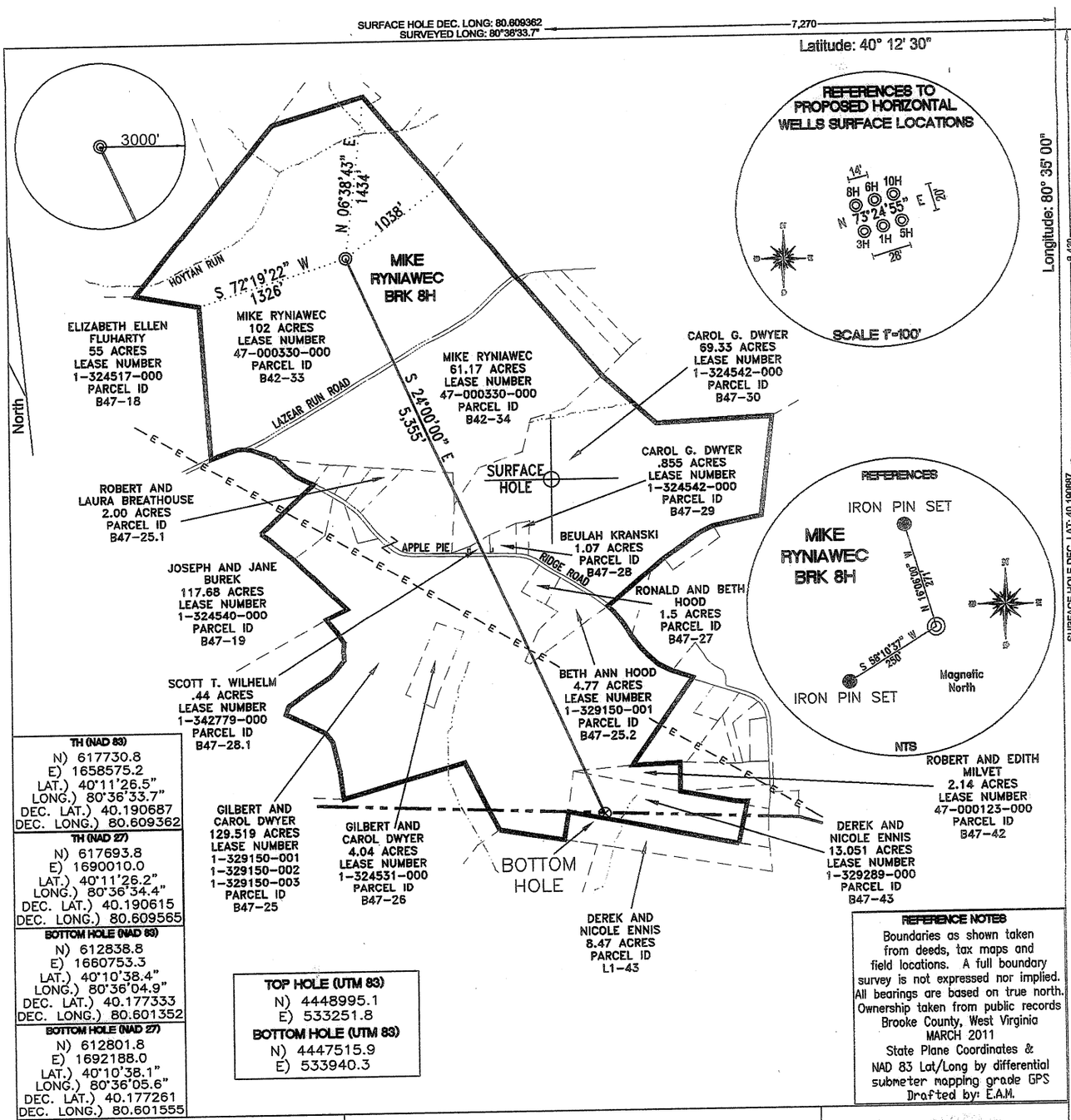
WELL: MIKE RYNIAWEC BRK 8H
QUAD: BETHANY WV
MIKE RYNIAWEC BRK 8H
BUFFALO
Ridge
West Liberty
BROOKE CO
OHIO CO
WEST LIBERTY STATE COLLEGE
West Liberty
Cox Cem
Morgan Cem
North Fork Short Creek
Apple Pie
GRAPHIC SCALE
1000
2000
3000



TH (NAD 83)
N) 617730.8
E) 1658575.2
LAT.) 40°11'26.5"
LONG.) 80°36'33.7"
DEC. LAT.) 40.190687
DEC. LONG.) 80.609362

TH (NAD 27)
N) 617693.8
E) 1690010.0
LAT.) 40°11'26.2"
LONG.) 80°36'34.4"
DEC. LAT.) 40.190615
DEC. LONG.) 80.609565

BOTTOM HOLE (NAD 83)
N) 612838.8
E) 1660753.3
LAT.) 40°10'38.4"
LONG.) 80°36'04.9"
DEC. LAT.) 40.177333
DEC. LONG.) 80.601352

BOTTOM HOLE (NAD 27)
N) 612801.8
E) 1692188.0
LAT.) 40°10'38.1"
LONG.) 80°36'05.6"
DEC. LAT.) 40.177261
DEC. LONG.) 80.601555

TOP HOLE (UTM 83)
N) 4448995.1
E) 533251.8
BOTTOM HOLE (UTM 83)
N) 4447515.9
E) 533940.3

REFERENCE NOTES
Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records Brooke County, West Virginia MARCH 2011
State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS
Drafted by: E.A.M.

FILE #: CHE 071
DRAWING #: 1675
SCALE: 1"=1200'
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.

Signed: _____

L.L.S. #2124 : Ernest J. Benchek III

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

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

DATE: JULY 12, 2011

OPERATOR'S WELL #: MIKE RYNIAWEC BRK 8H

API WELL #: 47 (STATE) 09 (COUNTY) 60109H (PERMIT)

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

WATERSHED: UPPER OHIO SOUTH

ELEVATION : 1,150'

COUNTY/DISTRICT: BROOKE/BUFFALO

QUADRANGLE: BETHANY WV.

SURFACE OWNER: MIKE RYNIAWEC BRK

ACREAGE: 102.0 +/-

OIL & GAS ROYALTY OWNER: MIKE RYNIAWEC BRK

ACREAGE: 411.373 +/-

LEASE NUMBERS: _____

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

TARGET FORMATION: MARCELLUS

ESTIMATED DEPTH: TVD: 5,935' TMD: 11,290'

WELL OPERATOR : CHESAPEAKE APPALACHIA, LLC.

DESIGNATED AGENT : ERIC B. GILLESPIE

ADDRESS: PO BOX 18496

ADDRESS: Po Box 6070

CITY: OKLAHOMA CITY STATE: OK ZIP CODE: 73154-0496

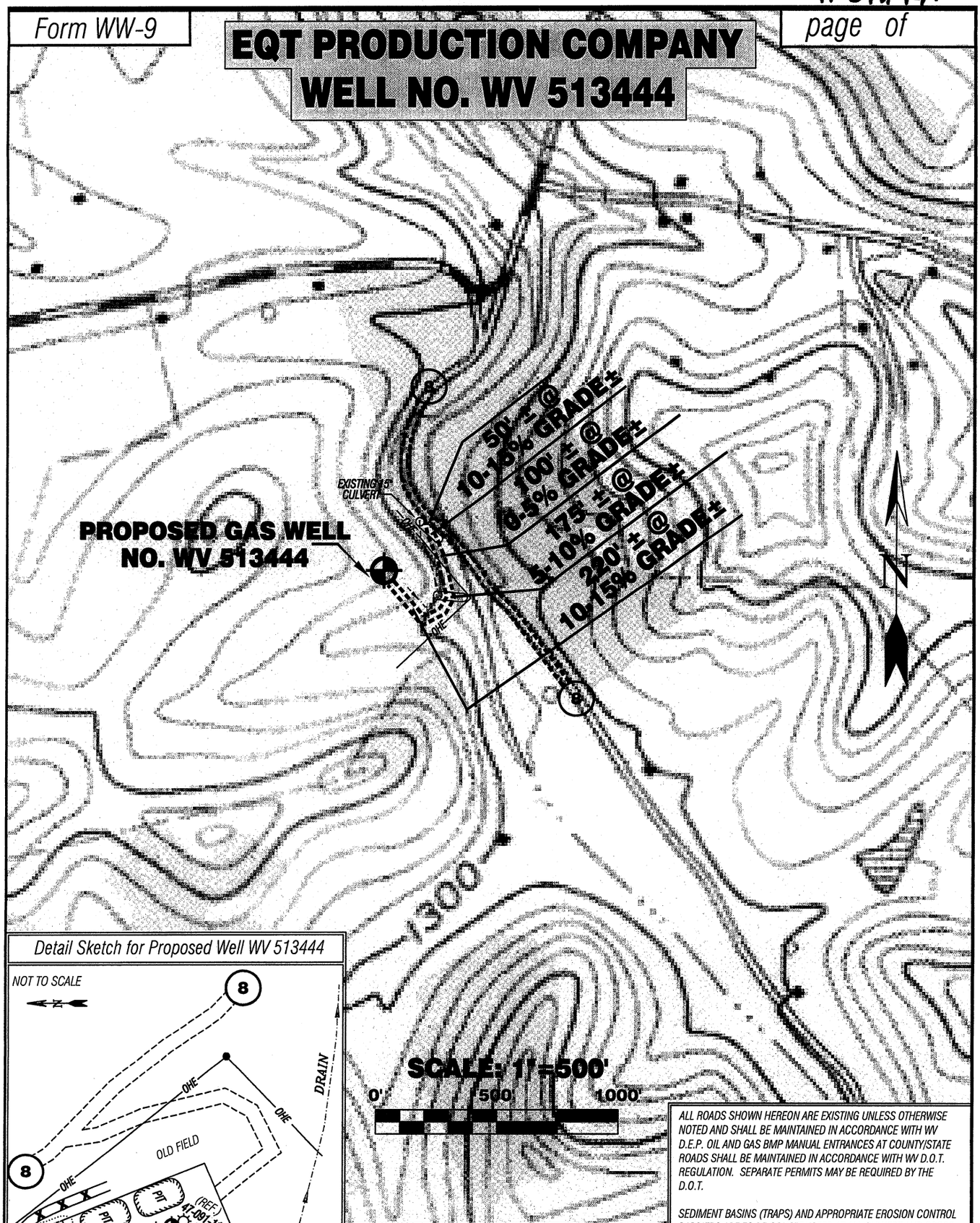
CITY: CHARLESTON STATE: WV ZIP CODE: 25301

91-012444

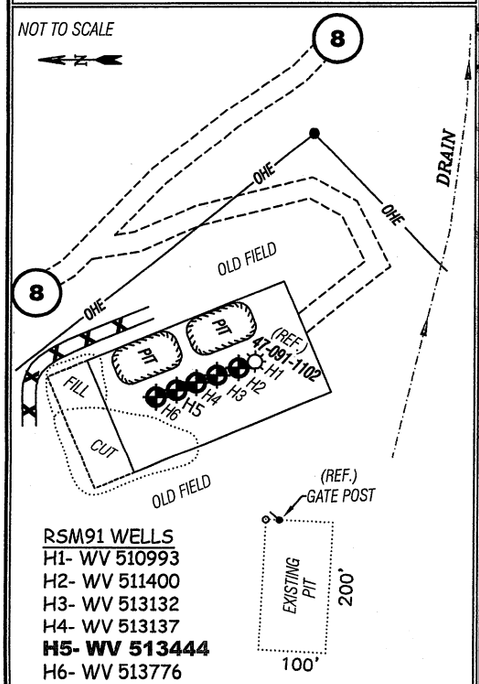
Form WW-9

page of

EQT PRODUCTION COMPANY
WELL NO. WV 513444



Detail Sketch for Proposed Well WV 513444



RSM91 WELLS
H1- WV 510993
H2- WV 511400
H3- WV 513132
H4- WV 513137
H5- WV 513444
H6- WV 513776

TOPO SECTION OF USGS
ROSEMONT 7.5' QUADRANGLE

PROPOSED CULVERT INVENTORY (FOR BID PURPOSES ONLY)	
12" (MINIMUM) CULVERTS	0 CUL.
15" (MINIMUM) CULVERTS	0 CUL.

ADDITIONAL CULVERTS AND/OR OTHER DRAINAGE STRUCTURES & SEDIMENT CONTROL DEVICES MAY BE REQUIRED BY THE WV D.E.P. OIL & GAS INSPECTOR.
OPERATOR IS RESPONSIBLE FOR COORDINATION WITH CONTRACTOR AND SLS REGARDING ANY CHANGES OR ADDITIONS THE STATE MAY REQUIRE.

Projected Earthen Disturbance Area	
Well Location Site	5.00 ac. +/-
Access Road	0.40 ac. +/-
Approximate Total Disturbance	5.40 ac. +/-

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.E.P. OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATION. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

SEDIMENT BASINS (TRAPS) AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV D.E.P. OIL AND GAS BMP MANUAL. FIELD CONDITIONS (ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

APPLICATIONS FOR SEPARATE PLC PERMITS ON THE ACCESS ROAD STREAM CROSSINGS HAVE BEEN PREPARED (IF APPLIES).

= EXISTING CULVERT

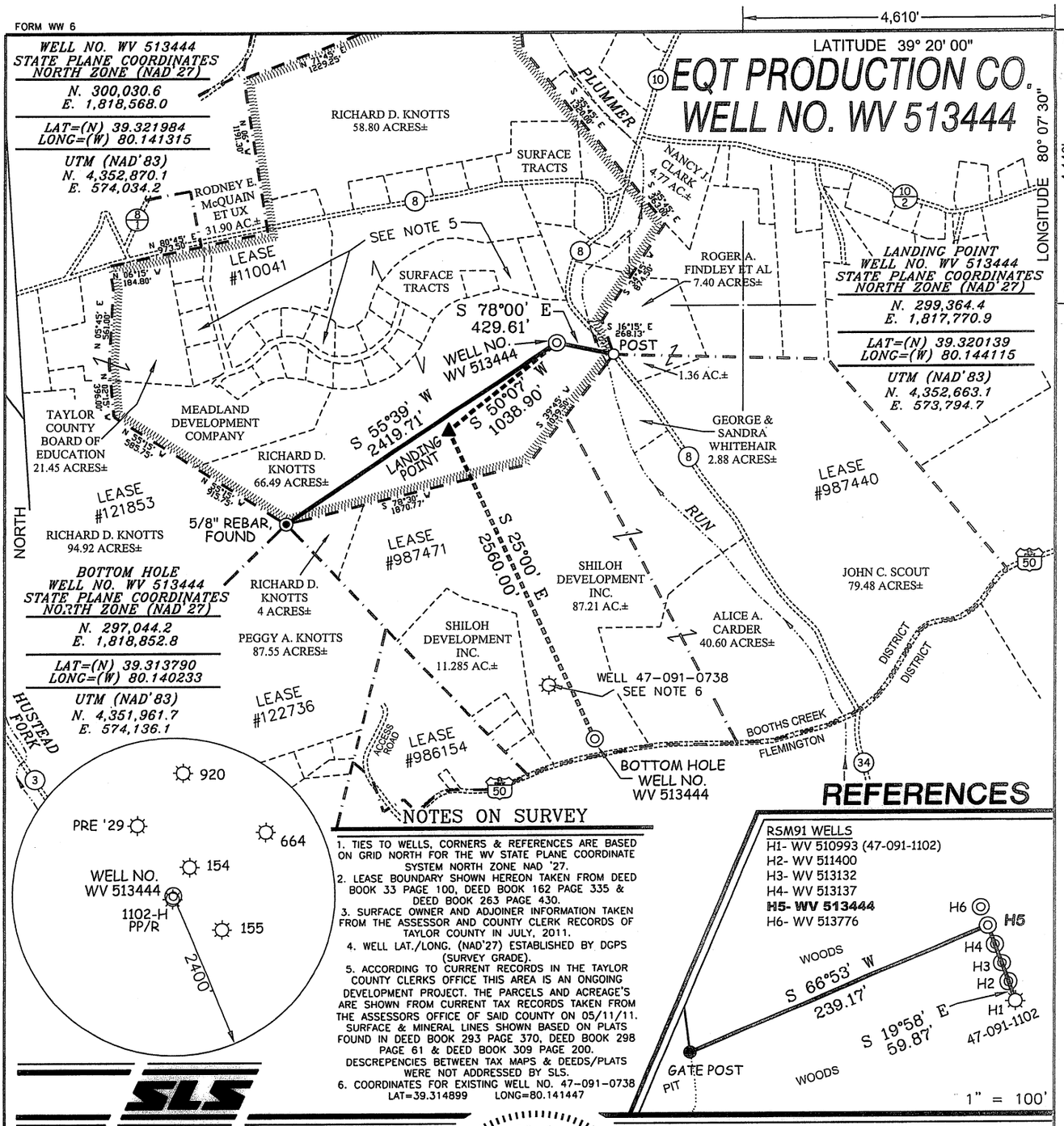
© = PROPOSED CULVERT 12" MIN. UNLESS OTHERWISE NOTED

⊗ = PROPOSED STREAM CROSSING (IF APPLIES) *SEE TABLE FOR CULVERT DETAIL

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

DRAWN BY	FILE NO.	DATE	CADD FILE:
C.J.P.	6733	05/05/11	6733RECWV513444.DWG

FORM WW 6



NOTES ON SURVEY

1. TIES TO WELLS, CORNERS & REFERENCES ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 33 PAGE 100, DEED BOOK 162 PAGE 335 & DEED BOOK 263 PAGE 430.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF TAYLOR COUNTY IN JULY, 2011.
4. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS (SURVEY GRADE).
5. ACCORDING TO CURRENT RECORDS IN THE TAYLOR COUNTY CLERKS OFFICE THIS AREA IS AN ONGOING DEVELOPMENT PROJECT. THE PARCELS AND ACREAGE'S ARE SHOWN FROM CURRENT TAX RECORDS TAKEN FROM THE ASSESSORS OFFICE OF SAID COUNTY ON 05/11/11. SURFACE & MINERAL LINES SHOWN BASED ON PLATS FOUND IN DEED BOOK 293 PAGE 370, DEED BOOK 298 PAGE 61 & DEED BOOK 309 PAGE 200. DESCREPENCIES BETWEEN TAX MAPS & DEEDS/PLATS WERE NOT ADDRESSED BY SLS.
6. COORDINATES FOR EXISTING WELL NO. 47-091-0738 LAT=39.314899 LONG=80.141447

SLS

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

GREGORY A. SMITH LICENSED No. 677 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

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

DATE JULY 26 , 20 11

OPERATORS WELL NO. WV 513444

API WELL NO. 47 — 091 — 01244H
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200

PROVEN SOURCE OF ELEVATION DGPS (SURVEY GRADE)

FILE NO. 6733P513444R (350-02)

SCALE 1" = 1000'

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

WELL TYPE : OIL ____ GAS X INJECTION ____ DISPOSAL ____ IF "GAS" PRODUCTION X STORAGE ____ DEEP ____ SHALLOW X

LOCATION :

ELEVATION 1,328' WATERSHED PLUMMER RUN

DISTRICT BOOTHS CREEK COUNTY TAYLOR QUADRANGLE ROSEMONT 7.5'

SURFACE OWNER RICHARD D. KNOTTS ACREAGE 66.49±

ROYALTY OWNER PEGGY ANN KNOTTS ET AL (241 AC.±) / LEE ANN BLAKE ET AL (98.5 AC.±) / DRI (WELLBORE ONLY)

PROPOSED WORK : LEASE NO. 110041 / 987471

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 MARCELLUS

ESTIMATED DEPTH ____

COUNTY NAME

PERMIT

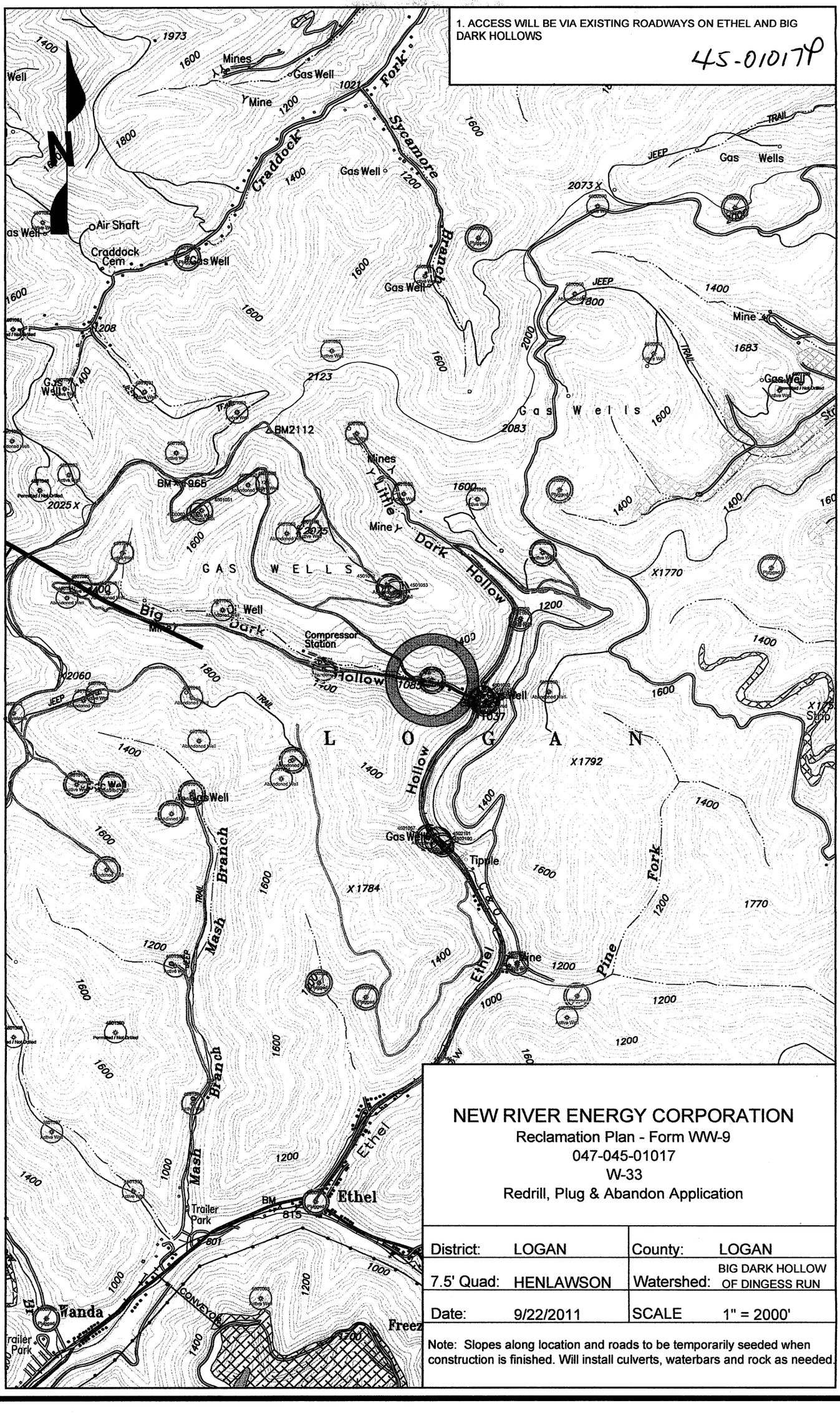
WELL OPERATOR EQT PRODUCTION COMPANY

ADDRESS 1710 PENNSYLVANIA AVENUE
CHARLESTON, WV 25302

DESIGNATED AGENT REX C. RAY

ADDRESS 1710 PENNSYLVANIA AVENUE
CHARLESTON, WV 25302

124568



NEW RIVER ENERGY CORPORATION

Reclamation Plan - Form WW-9
047-045-01017
W-33
Redrill, Plug & Abandon Application

District:	LOGAN	County:	LOGAN
7.5' Quad:	HENLAWSON	Watershed:	BIG DARK HOLLOW OF DINGESS RUN
Date:	9/22/2011	SCALE	1" = 2000'

Note: Slopes along location and roads to be temporarily seeded when construction is finished. Will install culverts, waterbars and rock as needed.

WW-7
8-30-06

45-01015P

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

API: 047-045-01015P **WELL NO.:** W-30

FARM NAME: Dingess Rum

RESPONSIBLE PARTY NAME: New River Energy Corporation

COUNTY: Logan **DISTRICT:** Logan

QUADRANGLE: Henlawson

SURFACE OWNER: Natural Resource Partners, LLC

ROYALTY OWNER: Dingess Rum Coal Company

UTM GPS NORTHING: 4193670

UTM GPS EASTING: 419073 **GPS ELEVATION:** 454 m

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

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

Survey grade GPS ____: Post Processed Differential _____

Real-Time Differential _____

Mapping Grade GPS X: Post Processed Differential _____

Real-Time Differential X

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

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

Signature VP - Operations Title 10/18/11 Date

WW-7
8-30-06

45-01017P

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

API: 047-045-01017P **WELL NO.:** W-33

FARM NAME: Dingess Rum

RESPONSIBLE PARTY NAME: New River Energy Corporation

COUNTY: Logan **DISTRICT:** Logan

QUADRANGLE: Henlawson

SURFACE OWNER: Natural Resource Partners, LLC

ROYALTY OWNER: Dingess Rum Coal Company

UTM GPS NORTHING: 4194298

UTM GPS EASTING: 420392 **GPS ELEVATION:** 326 m

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

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

Survey grade GPS ____: Post Processed Differential ____

Real-Time Differential ____

Mapping Grade GPS X: Post Processed Differential ____

Real-Time Differential X

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

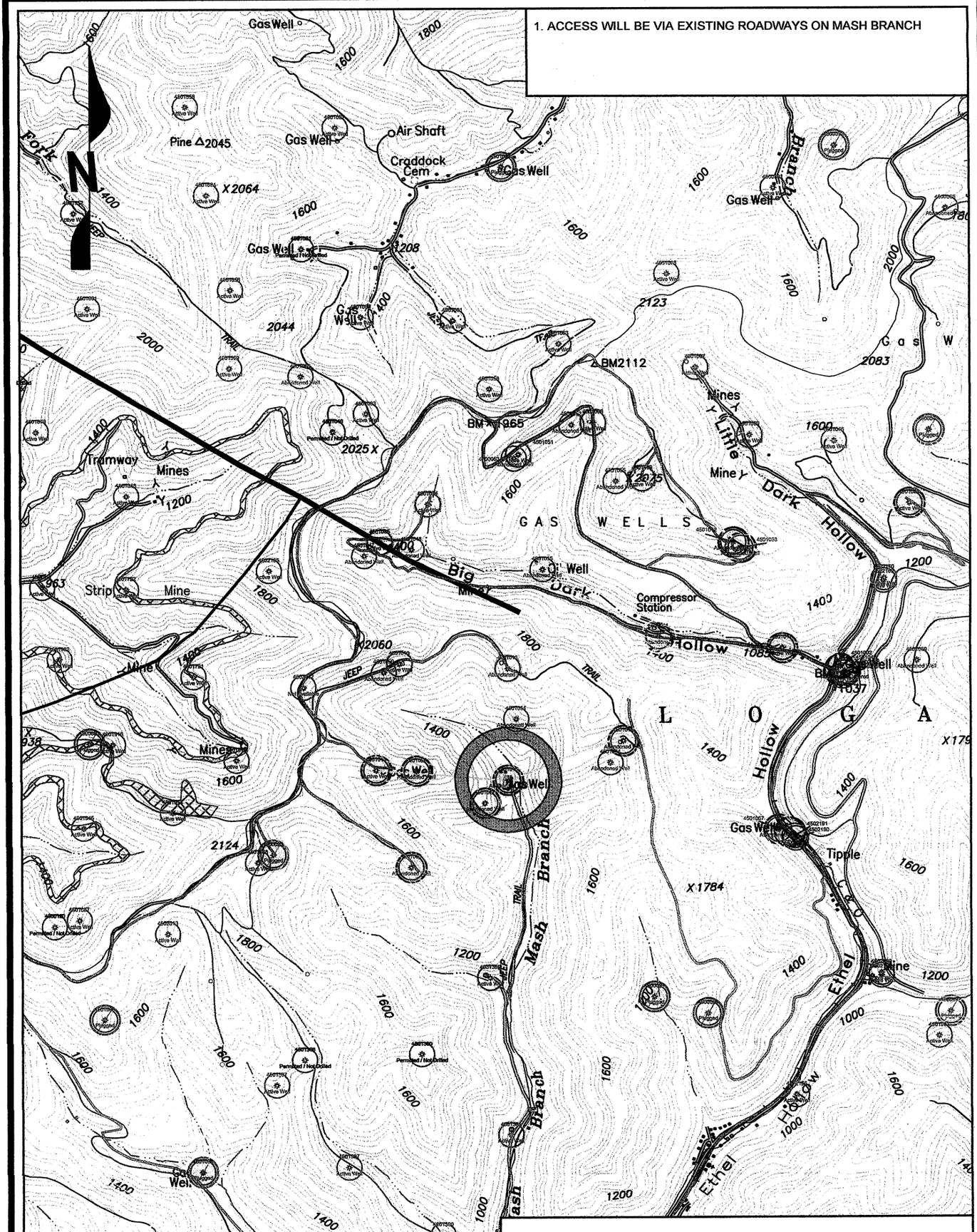
I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

RECEIVED
Office of Oil & Gas
OCT 20 2011
WV Department of
Environmental Protection

Signature VP - Operations Title 10/18/11 Date

45-01015P

1. ACCESS WILL BE VIA EXISTING ROADWAYS ON MASH BRANCH



NEW RIVER ENERGY CORPORATION

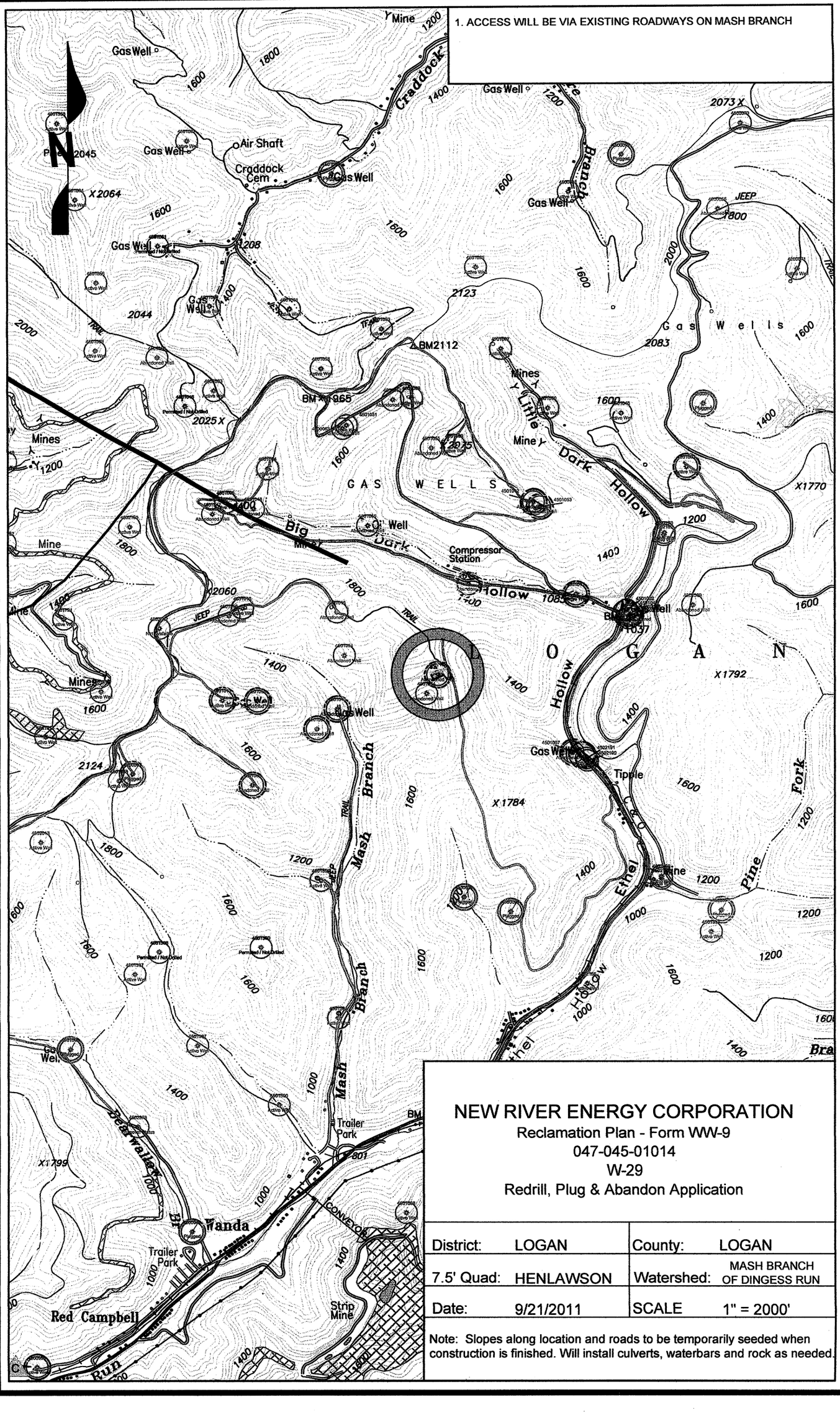
Reclamation Plan - Form WW-9
047-045-01015
W-30
Redrill, Plug & Abandon Application

District:	LOGAN	County:	LOGAN
7.5' Quad:	HENLAWSON	Watershed:	MASH BRANCH OF DINGESS RUN
Date:	9/22/2011	SCALE	1" = 2000'

Note: Slopes along location and roads to be temporarily seeded when construction is finished. Will install culverts, waterbars and rock as needed.

45-010149

1. ACCESS WILL BE VIA EXISTING ROADWAYS ON MASH BRANCH



NEW RIVER ENERGY CORPORATION

Reclamation Plan - Form WW-9

047-045-01014

W-29

Redrill, Plug & Abandon Application

District:	LOGAN	County:	LOGAN
7.5' Quad:	HENLAWSON	Watershed:	MASH BRANCH OF DINGESS RUN
Date:	9/21/2011	SCALE	1" = 2000'

Note: Slopes along location and roads to be temporarily seeded when construction is finished. Will install culverts, waterbars and rock as needed.

WW-7
8-30-06

45-010147P

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

API: 047-045-01014 P **WELL NO.:** W-29

FARM NAME: Dingess Rum

RESPONSIBLE PARTY NAME: New River Energy Corporation

COUNTY: Logan **DISTRICT:** Logan

QUADRANGLE: Henlawson

SURFACE OWNER: Natural Resource Partners, LLC

ROYALTY OWNER: Dingess Rum Coal Company

UTM GPS NORTHING: 4193872

UTM GPS EASTING: 419619 **GPS ELEVATION:** 602 m

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

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

Survey grade GPS ____: Post Processed Differential _____

Real-Time Differential _____

Mapping Grade GPS X: Post Processed Differential _____

Real-Time Differential X

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

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

Signature VP - Operations Title 10/18/11 Date

45-01013P

1. ACCESS WILL BE VIA EXISTING ROADWAYS ON ETHEL AND LITTLE DARK HOLLOWS.

NEW RIVER ENERGY CORPORATION

Reclamation Plan - Form WW-9
047-045-01013
W-28
Redrill, Plug & Abandon Application

District:	LOGAN	County:	LOGAN
7.5' Quad:	HENLAWSON	Watershed:	MASH BRANCH OF DINGESS RUN
Date:	9/20/2011	SCALE	1" = 2000'

Note: Slopes along location and roads to be temporarily seeded when construction is finished. Will install culverts, waterbars and rock as needed.

WW-7
8-30-06

45-01013P

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

API: 047-045-01013P **WELL NO.:** W-28

FARM NAME: Dingess Rum

RESPONSIBLE PARTY NAME: New River Energy Corporation

COUNTY: Logan **DISTRICT:** Logan

QUADRANGLE: Henlawson

SURFACE OWNER: Natural Resource Partners, LLC

ROYALTY OWNER: Dingess Rum Coal Company

UTM GPS NORTHING: 4193721

UTM GPS EASTING: 418437 **GPS ELEVATION:** 670 m

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

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

Survey grade GPS ____: Post Processed Differential _____

Real-Time Differential _____

Mapping Grade GPS X: Post Processed Differential _____

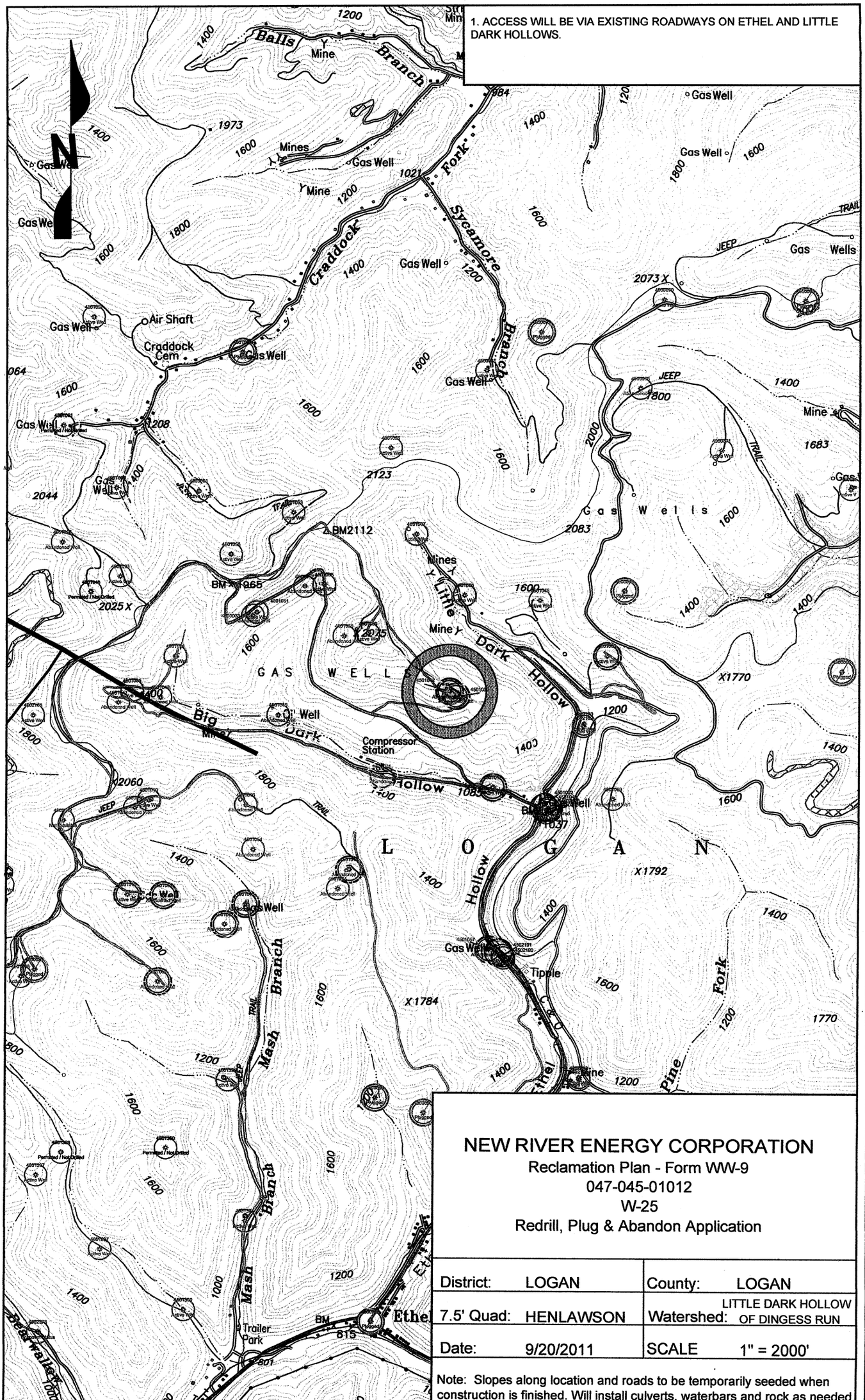
Real-Time Differential X

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

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

Signature | VP - Operations Title | 10/18/11 Date

45-01012P



NEW RIVER ENERGY CORPORATION

Reclamation Plan - Form WW-9
047-045-01012
W-25
Redrill, Plug & Abandon Application

District:	LOGAN	County:	LOGAN
7.5' Quad:	HENLAWSON	Watershed:	LITTLE DARK HOLLOW OF DINGESS RUN
Date:	9/20/2011	SCALE	1" = 2000'

Note: Slopes along location and roads to be temporarily seeded when construction is finished. Will install culverts, waterbars and rock as needed.

WW-7
8-30-06

45-01012P

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

API: 047-045-01012P **WELL NO.:** W-25

FARM NAME: Dingess Rum

RESPONSIBLE PARTY NAME: New River Energy Corporation

COUNTY: Logan **DISTRICT:** Logan

QUADRANGLE: Henlawson

SURFACE OWNER: Natural Resource Partners, LLC

ROYALTY OWNER: Dingess Rum Coal Company

UTM GPS NORTHING: 4194836

UTM GPS EASTING: 420172 **GPS ELEVATION:** 641 m

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

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

Survey grade GPS ____: Post Processed Differential _____

Real-Time Differential _____

Mapping Grade GPS X: Post Processed Differential _____

Real-Time Differential X

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

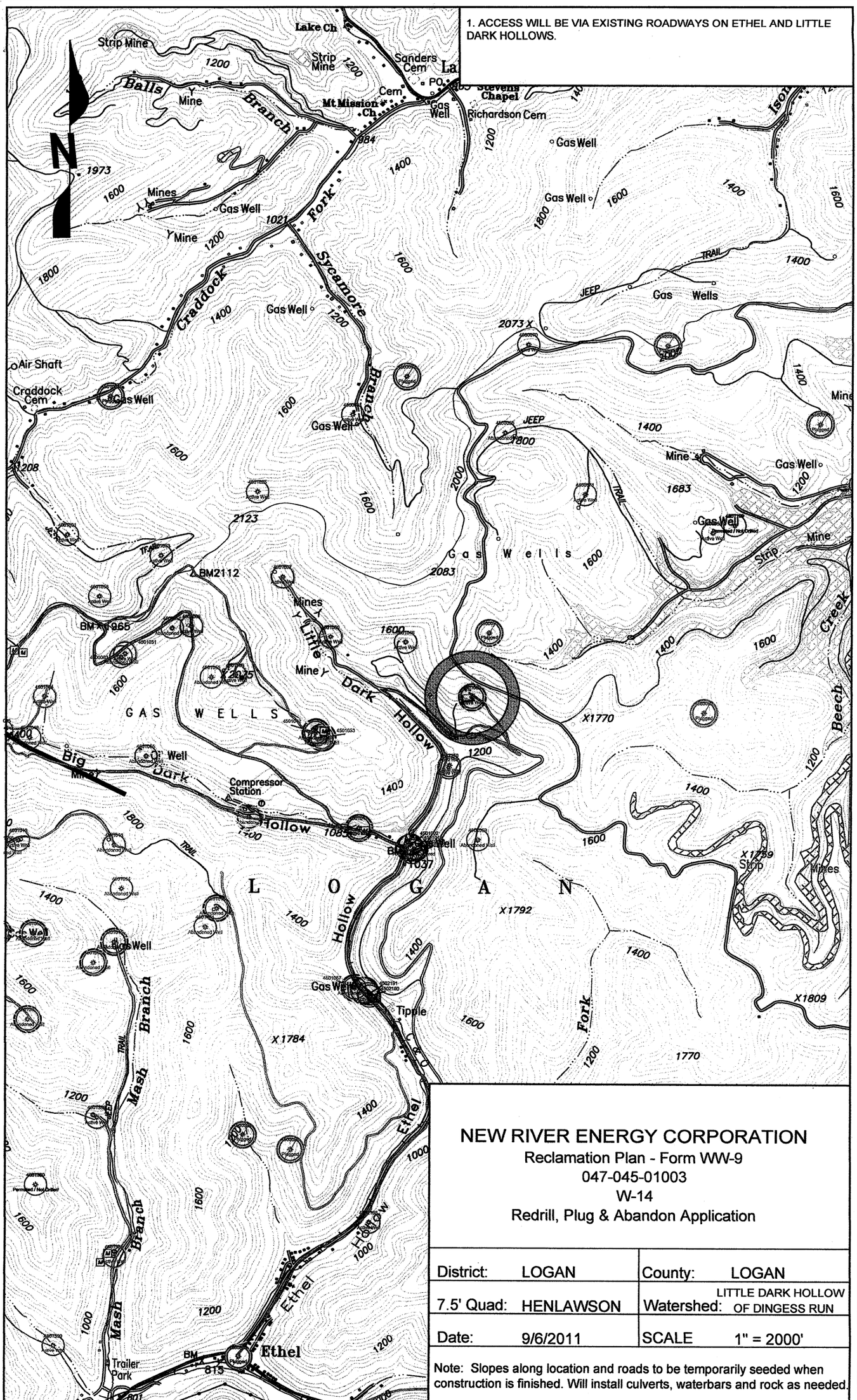
I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Received Office of Oil & Gas OCT 20 2011 WV Department of Environmental Protection

Signature | VP - Operations (Title) | 10/18/11 (Date)

45-010038

1. ACCESS WILL BE VIA EXISTING ROADWAYS ON ETHEL AND LITTLE DARK HOLLOWS.



NEW RIVER ENERGY CORPORATION

Reclamation Plan - Form WW-9

047-045-01003

W-14

Redrill, Plug & Abandon Application

District:	LOGAN	County:	LOGAN
7.5' Quad:	HENLAWSON	Watershed:	LITTLE DARK HOLLOW OF DINGESS RUN
Date:	9/6/2011	SCALE	1" = 2000'

Note: Slopes along location and roads to be temporarily seeded when construction is finished. Will install culverts, waterbars and rock as needed.

45-01003P

WW-7
8-30-06

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

API: 047-045-01003 P **WELL NO.:** W-14

FARM NAME: Dingess Rum

RESPONSIBLE PARTY NAME: New River Energy Corporation

COUNTY: Logan **DISTRICT:** Logan

QUADRANGLE: Henlawson

SURFACE OWNER: Natural Resource Partners, LLC

ROYALTY OWNER: Dingess Rum Coal Company

UTM GPS NORTHING: 4195026

UTM GPS EASTING: 421014 **GPS ELEVATION:** 585m

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

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

Survey grade GPS ____: Post Processed Differential ____

Real-Time Differential ____

Mapping Grade GPS X: Post Processed Differential ____

Real-Time Differential X

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

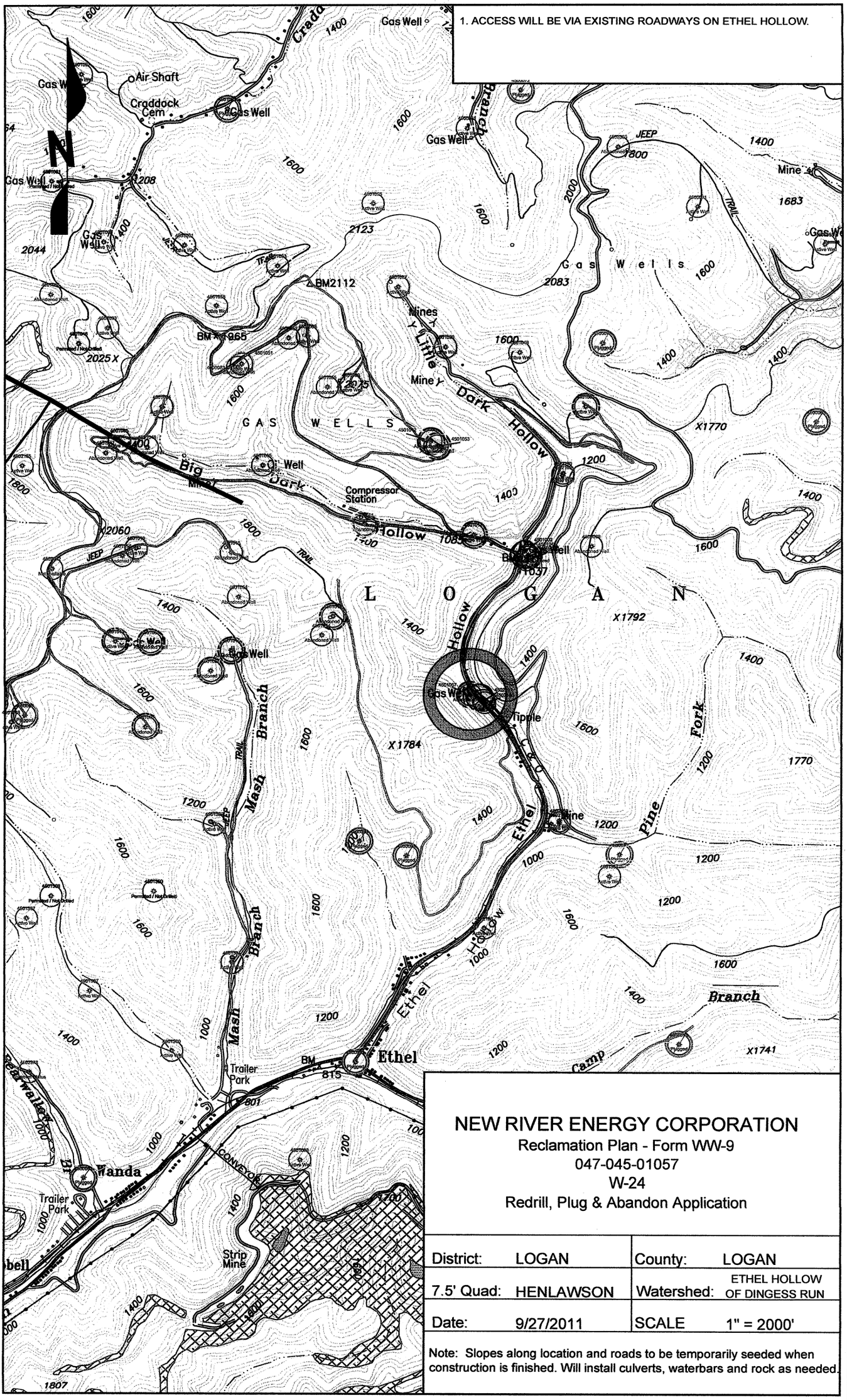
I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

RECEIVED
Office of Oil & Gas
OCT 20 2011
WV Department of
Environmental Protection

Signature VP - Operations Title 10/18/11 Date

45-010577

1. ACCESS WILL BE VIA EXISTING ROADWAYS ON ETHEL HOLLOW.



NEW RIVER ENERGY CORPORATION

Reclamation Plan - Form WW-9

047-045-01057

W-24

Redrill, Plug & Abandon Application

District:	LOGAN	County:	LOGAN
7.5' Quad:	HENLAWSON	Watershed:	ETHEL HOLLOW OF DINGESS RUN
Date:	9/27/2011	SCALE	1" = 2000'

Note: Slopes along location and roads to be temporarily seeded when construction is finished. Will install culverts, waterbars and rock as needed.

WW-7
8-30-06

45-01057P

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

API: 047-045-~~01003~~P 1057P **WELL NO.:** W-24

FARM NAME: Dingess Rum

RESPONSIBLE PARTY NAME: New River Energy Corporation

COUNTY: Logan **DISTRICT:** Logan

QUADRANGLE: Henlawson

SURFACE OWNER: Natural Resource Partners, LLC

ROYALTY OWNER: Dingess Rum Coal Company

UTM GPS NORTHING: 4193403

UTM GPS EASTING: 420432 **GPS ELEVATION:** 314 m

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

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

Survey grade GPS ____: Post Processed Differential ____

Real-Time Differential ____

Mapping Grade GPS X: Post Processed Differential ____

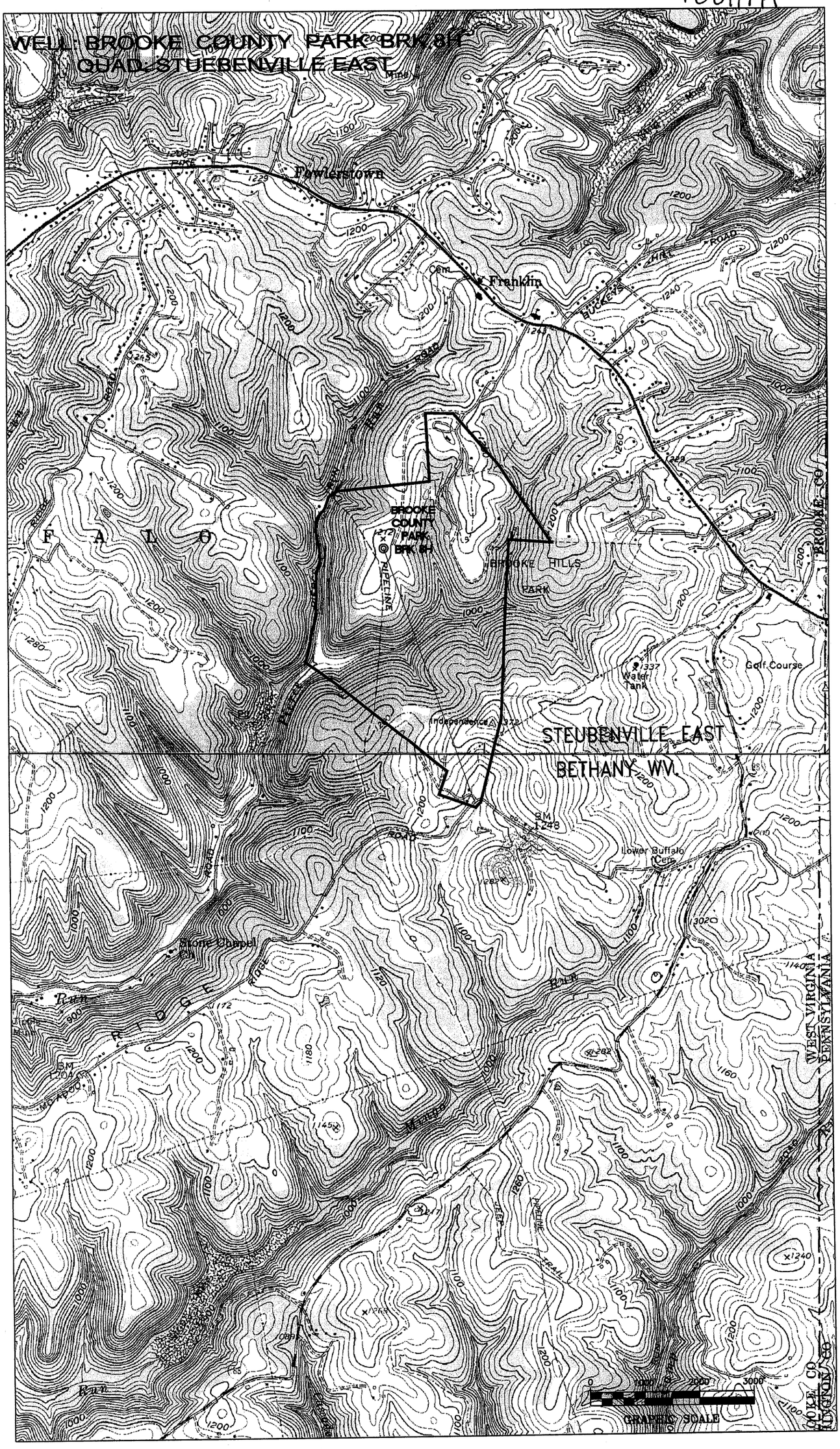
Real-Time Differential X

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

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

Signature Vice President Title 10/18/11 Date

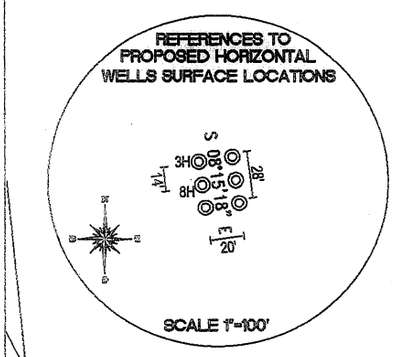
9-00111H


WELL: BROOKE COUNTY PARK BRK 8H
QUAD: STUEBENVILLE EAST
Fowlerstown
Franklin
BROOKE COUNTY PARK BRK 8H
BROOKE HILLS PARK
PIPELINE
F A L O
Golf Course
Water Tank
Independence
STEUBENVILLE EAST
BETHANY WV.
BM 1248
Lower Buffalo Cem
Stone Chapel Ch
RIDGE
Run
BROOKE CO
WEST VIRGINIA
PENNSYLVANIA
GRAPHIC SCALE
0
1000
2000
3000

SURFACE HOLE DEC. LONG: 80.547879
SURVEYED LONG: 80°32'52.4"

1,740'

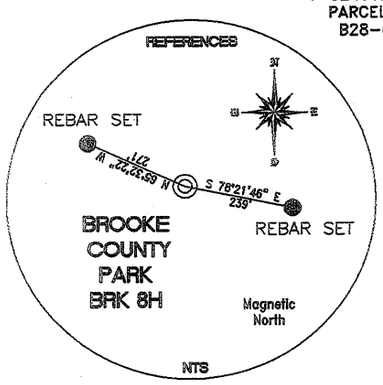
Latitude: 40° 17' 30"

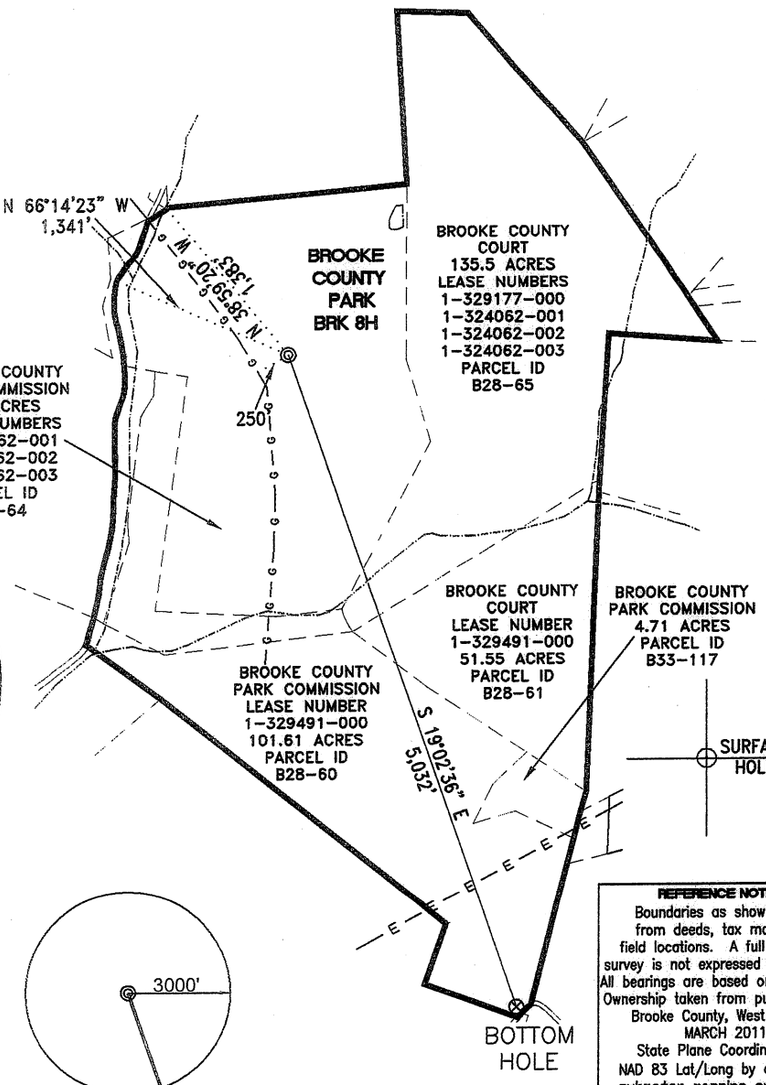


North

Longitude: 80° 32' 30"

11,350'





TOP HOLE (NAD 83)	BOTTOM HOLE (NAD 83)
N) 642972.7	N) 638215.9
E) 1676048.0	E) 1677689.8
LAT.) 40°15'38.0"	LAT.) 40°14'51.2"
LONG.) 80°32'52.4"	LONG.) 80°32'30.5"
DEC. LAT.) 40.260547	DEC. LAT.) 40.247543
DEC. LONG.) 80.547879	DEC. LONG.) 80.541799
TOP HOLE (NAD 27)	**BOTTOM HOLE (NAD 27)**
N) 642935.5	N) 638178.8
E) 1707482.2	E) 1709124.1
LAT.) 40°15'37.7"	LAT.) 40°14'50.9"
LONG.) 80°32'53.1"	LONG.) 80°32'31.2"
DEC. LAT.) 40.260476	DEC. LAT.) 40.247472
DEC. LONG.) 80.548086	DEC. LONG.) 80.542006

REFERENCE NOTES
Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records Brooke County, West Virginia MARCH 2011
State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS
Drafted by: E.A.M.

SURFACE HOLE DEC. LAT: 40.260547
SURVEYED LAT: 40°15'38.0"

FILE #: CHE 073
DRAWING #: 1801
SCALE: 1"=1200'
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.

Signed: [redacted]

L.L.S. #2124 : Ernest J. Benchek III

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

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

DATE: AUGUST 23, 2011

OPERATOR'S WELL #: BROOKE COUNTY PARK BRK 8H

API WELL #: 47 (STATE) 09 (COUNTY) 00111 H (PERMIT)

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

WATERSHED: UPPER OHIO SOUTH

ELEVATION : 1,206'

COUNTY/DISTRICT: BROOKE/BUFFALO

QUADRANGLE: STUEBENVILLE EAST.

SURFACE OWNER: BROOKE COUNTY PARK COMMISSION

ACREAGE: 135.00 +/-

OIL & GAS ROYALTY OWNER: BROOKE COUNTY PARK COMMISSION

ACREAGE: 288.16 +/-

LEASE NUMBERS:

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

TARGET FORMATION: MARCELLUS

ESTIMATED DEPTH: TVD: 6,250' TMD: 11,282'

WELL OPERATOR : CHESAPEAKE APPALACHIA, LLC.

DESIGNATED AGENT : ERIC B. GILLESPIE

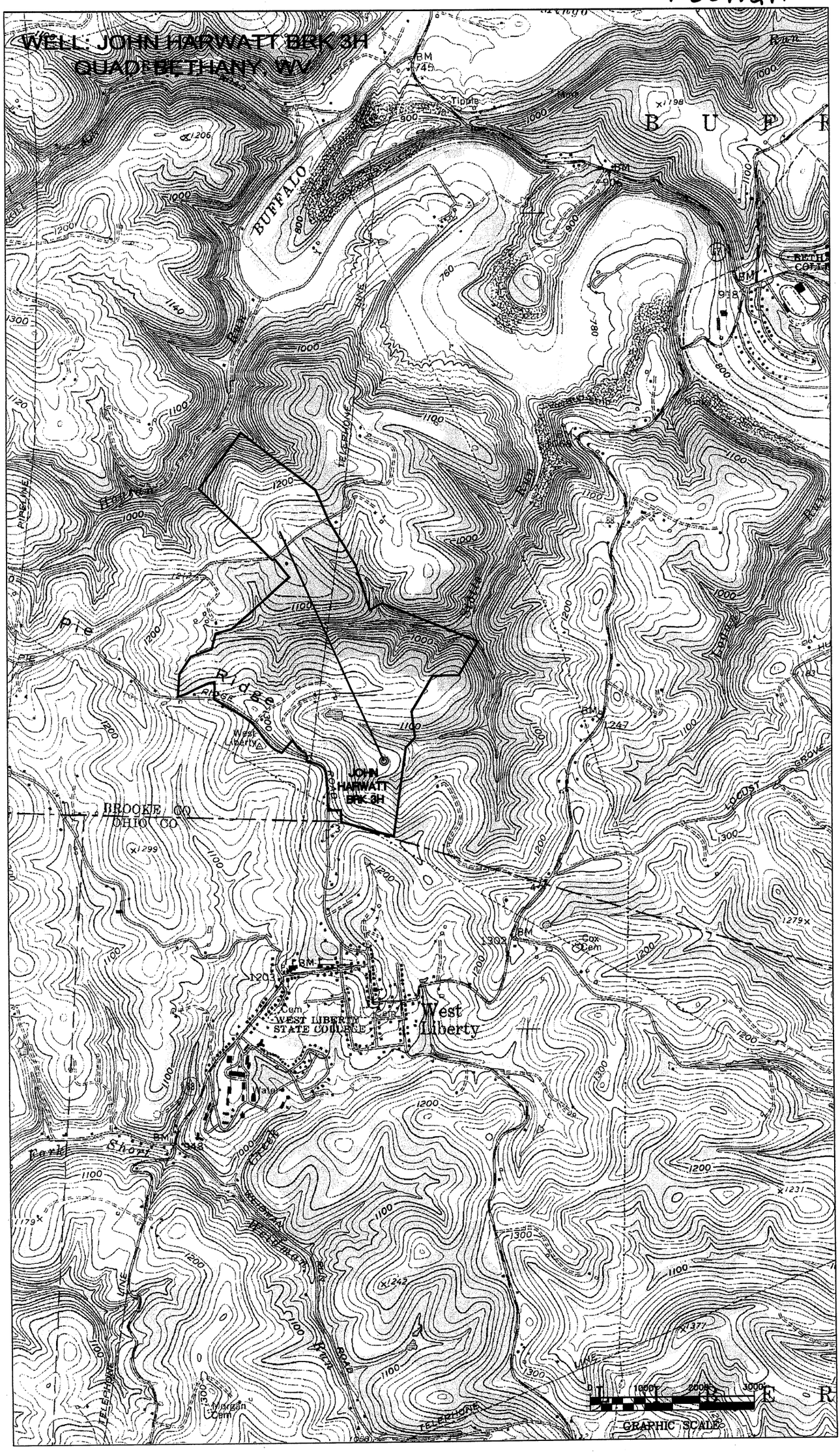
ADDRESS: PO BOX 18496

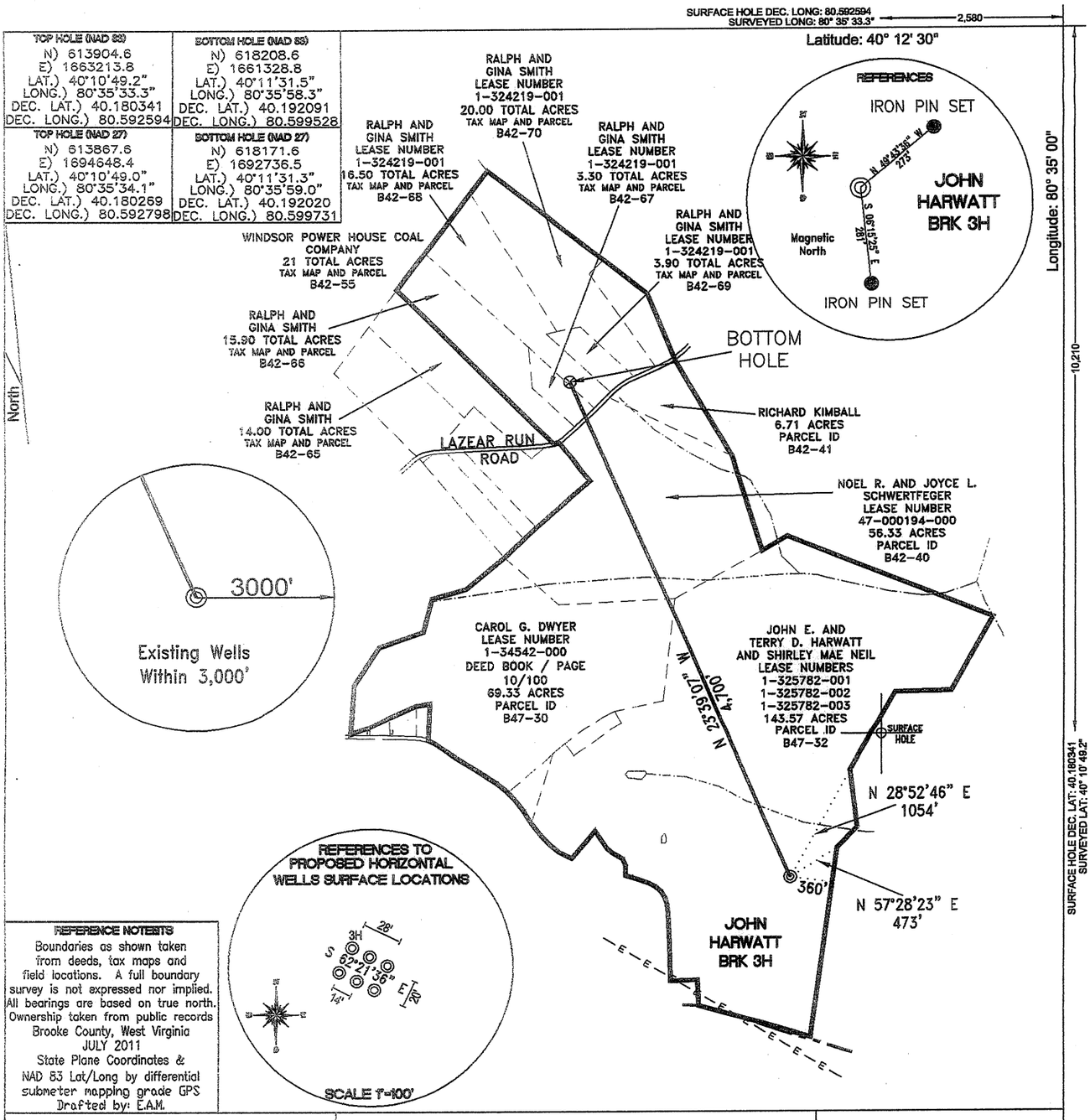
ADDRESS: Po Box 6070

CITY: OKLAHOMA CITY STATE: OK ZIP CODE: 73154-0496

CITY: CHARLESTON STATE: WV ZIP CODE: 25301

9-00112H


WELL: JOHN HARWATT BRK 3H
QUAD: BETHANY, WV
BUFFALO
Run
Pie
Ridge
West Liberty
JOHN HARWATT BRK 3H
BROOKE CO
OHIO CO
WEST LIBERTY STATE COLLEGE
West Liberty
Cox Cem
Morgan Cem
Fork
Short
Creek
TELEPHONE
LINE
PIPELINE
LOCUST
GROVE
GRAPHIC SCALE
1000
2000
3000



FILE #: CHE 085
DRAWING #: 1773
SCALE: 1"=1200'
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.

Signed: [redacted]

L.L.S. #2124 : Ernest J. Benchek III

ERNEST J. BENCHEK III — WEST VIRGINIA — N. 2124 — STATE OF — ORIGINAL SEAL

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

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

DATE: AUGUST 24, 2011

OPERATOR'S WELL #: JOHN HARWATT BRK 3H

API WELL #: 47 (STATE) 09 (COUNTY) 00112H (PERMIT)

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

WATERSHED: UPPER OHIO SOUTH

ELEVATION : 1,130'

COUNTY/DISTRICT: BROOKE/BUFFALO

QUADRANGLE: BETHANY WV.

SURFACE OWNER: JOHN E. ANDTERRY D. HARWATTAND SHIRLEY MAE NEIL

ACREAGE: 143.57 +/-

OIL & GAS ROYALTY OWNER: JOHN E. ANDTERRY D. HARWATTAND SHIRLEY MAE NEIL

ACREAGE: 289.03 +/-

LEASE NUMBERS:

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

TARGET FORMATION: MARCELLUS

ESTIMATED DEPTH: TVD: 5,975' TMD: 10,470'

WELL OPERATOR : CHESAPEAKE APPALACHIA, LLC.

DESIGNATED AGENT : ERIC B. GILLESPIE

ADDRESS: PO BOX 18496

ADDRESS: Po Box 6070

CITY: OKLAHOMA CITY STATE: OK ZIP CODE: 73154-0496

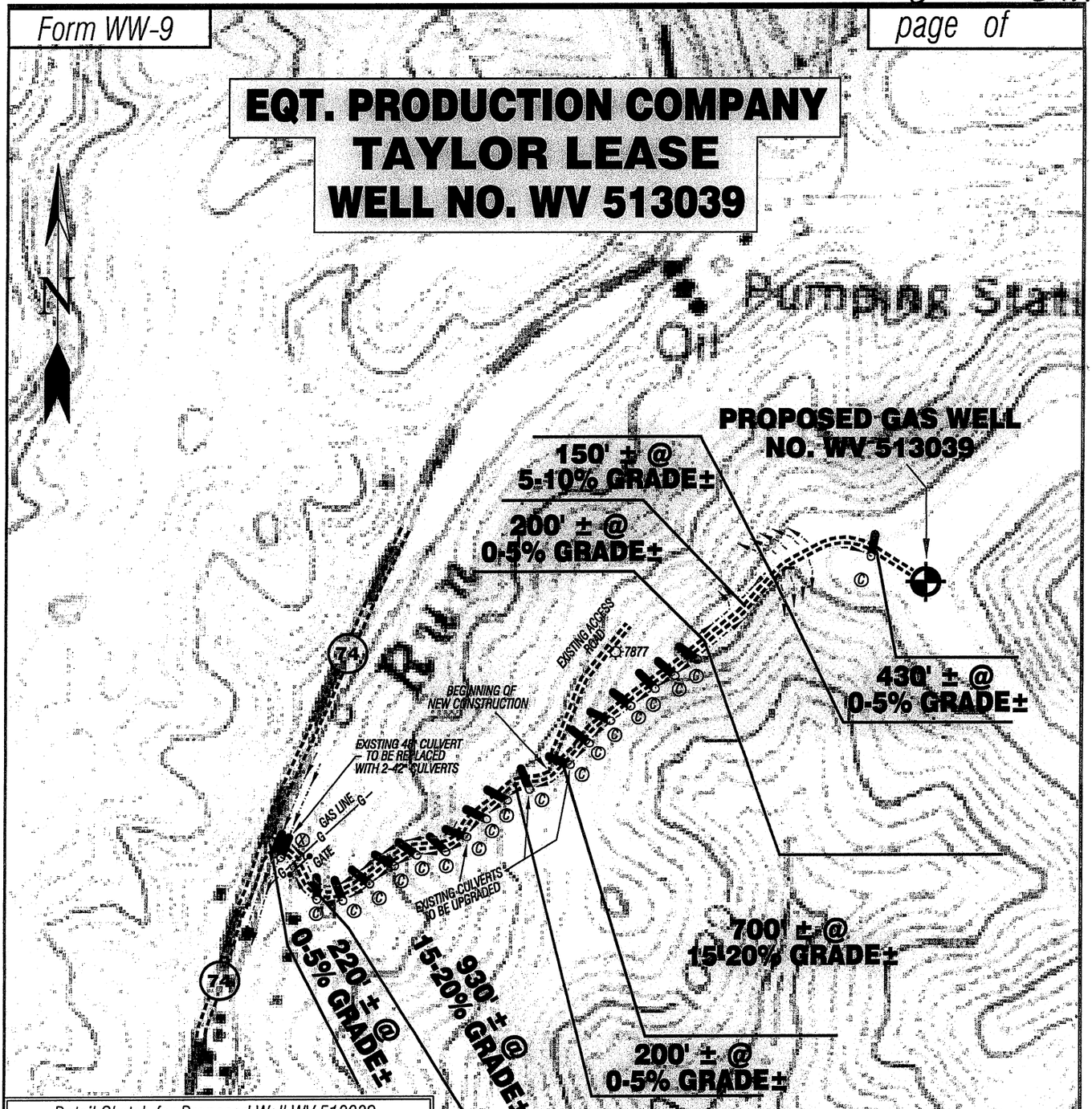
CITY: CHARLESTON STATE: WV ZIP CODE: 25301

85-09932H

Form WW-9

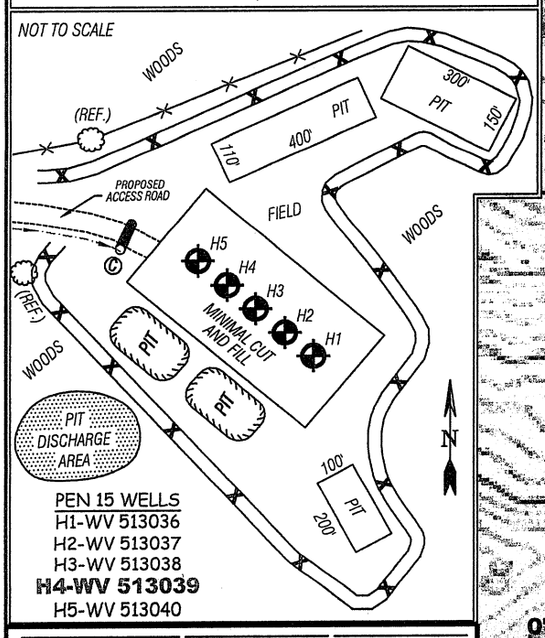
page of

EQT. PRODUCTION COMPANY
TAYLOR LEASE
WELL NO. WV 513039



Detail Sketch for Proposed Well WV 513039

NOT TO SCALE



PEN 15 WELLS
H1-WV 513036
H2-WV 513037
H3-WV 513038
H4-WV 513039
H5-WV 513040

SCALE: 1"=500'

0' 500' 1000'

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.E.P. OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATION. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

SEDIMENT BASINS (TRAPS) AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV D.E.P. OIL AND GAS BMP MANUAL. FIELD CONDITIONS (ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

APPLICATIONS FOR SEPARATE PLC PERMITS ON THE ACCESS ROAD STREAM CROSSINGS HAVE BEEN PREPARED (IF APPLIES).

= EXISTING CULVERT

© = PROPOSED CULVERT 12" MIN. UNLESS OTHERWISE NOTED

Ⓧ = PROPOSED STREAM CROSSING (IF APPLIES) *SEE TABLE FOR CULVERT DETAIL

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

DRAWN BY	FILE NO.	DATE	CADD FILE:
C.J.P.	7496	06/07/11	7496RECWV513039R2.dwg

TOPO SECTION OF USGS
PENNSBORO 7.5' QUADRANGLE

FORM WW 6

9,940'

10,790'

LATITUDE 39° 17' 30"

LONGITUDE 80° 55' 00"

EQT PRODUCTION CO.
WELL NO. WV 513039
TAYLOR LEASE
1,600 ACRES±

BOTTOM HOLE WELL NO. WV 513039
STATE PLANE COORDINATES NORTH ZONE (NAD'27)
N. 285,635
E. 1,586,084

LAT=(N) 39.27499
LONG=(W) 80.96215

UTM (NAD'83)
N. 4,347,303
E. 503,279

LANDING POINT WELL NO. WV 513039
STATE PLANE COORDINATES NORTH ZONE (NAD'27)
N. 280,930
E. 1,588,278

LAT=(N) 39.26217
LONG=(W) 80.95414

UTM (NAD'83)
N. 4,345,881
E. 503,971

WELL NO. WV 513039
STATE PLANE COORDINATES NORTH ZONE (NAD'27)
N. 280,866
E. 1,588,953

LAT=(N) 39.26203
LONG=(W) 80.95175

UTM (NAD'83)
N. 4,345,865
E. 504,177

BOTTOM HOLE WELL NO. WV 513039

LANDING POINT WELL NO. WV 513039

2" IRON PIPE, FOUND

STONE, FOUND

N 35°23' W 3805.03'

N 52°56' W 3854.43'

N 25°00' W 5191.09'

N 84°35' W 678.72'

N 80°41' E 1367.56'

CLAY DISTRICT

NORTH

LONG RUN

SPRING

VIRGINIA COTTRILL 105.03 AC.± 5/8" REBAR, FOUND

SAMMUAL C. HAMMETT ET AL 110.67 ACRES±

DEWAYNE R. & JUDITH D. BRITTON 140.421 ACRES±

JAMES B. CROWNOVER ET AL 80.47 ACRES±

A	DALE M. & LINDA L. GRIFFITH	1.09 AC±
B	JODY M. & TAMELA L. DEVERICKS	5.20 AC±
C	RICHARD HALL BARNARD	79 AC±
D	RICHARD H. BARNARD	15.36 AC±
E	RICHARD HALL BARNARD	6.9 AC±
F	RICHARD HALL BARNARD	3.42 AC±
G	WILLIAM B. COLLINS ET AL	1 AC±
H	ERIN DALE COWGILL ET AL	37.5 AC±
I	KEVIN MINOR & JENNIFER NUTTER	3.08 AC±
J	KEVIN MINOR & JENNIFER NUTTER	4.00 AC±
K	RICHARD HALL BERNARD	3.00 AC±
L	DARREN A. GRITTITH ET AL	9.42 AC±
M	THOMAS G. & DIANA S. MCCUEN	31.8 AC±
N	HOWARD K. & NANCY R. HARMS	22.9 AC±

NORTH FORK HUGHES RIVER

WELL NO. WV 513039

2400'

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 09/03/10.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM MULTIPLE DEEDS PROVIDED BY EQT PRODUCTION COMPANY AND VARIOUS WELL PLATS.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF RITCHIE COUNTY IN JULY, 2010.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

REFERENCES

10" WILD BLACK CHERRY

N 39° W 230.15'

24" YELLOW POPLAR

N 86°30' W 283.85'

WOODS

FIELD

PEN 15 WELLS
H1-WV 513036
H2-WV 513037
H3-WV 513038
H4-WV 513039
H5-WV 513040

SLS

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

GREGORY A. SMITH LICENSED No. 677 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

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

DATE JUNE 07 , 20 11

OPERATORS WELL NO. WV 513039

API WELL NO. 47 — 085 — 09932H
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200

PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE)

FILE NO. 7496P513039FINAL (296-73)

SCALE 1" = 2000'

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 1,116' WATERSHED LONG RUN OF NORTH FORK HUGHES RIVER
DISTRICT CLAY COUNTY RITCHIE QUADRANGLE PENNSBORO 7.5'
SURFACE OWNER DEWAYNE BRITTON ET UX ACREAGE 140.421 OF 1,600±
ROYALTY OWNER E. R. TAYLOR HEIRS LEASE ACREAGE 1,600±
PROPOSED WORK : LEASE NO. 105804
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 MARCELLUS
ESTIMATED DEPTH ____

COUNTY NAME

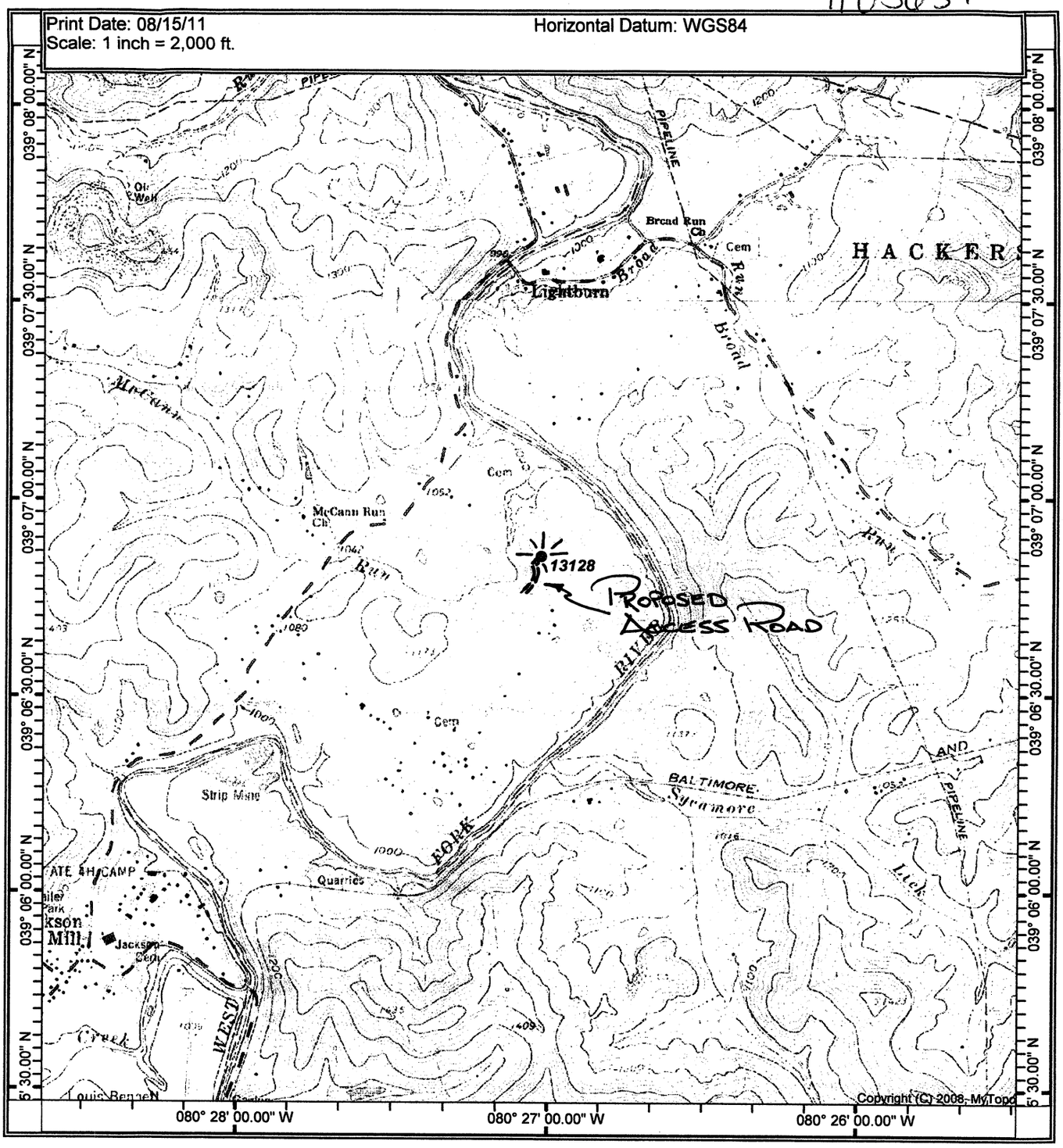
PERMIT

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

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

124568

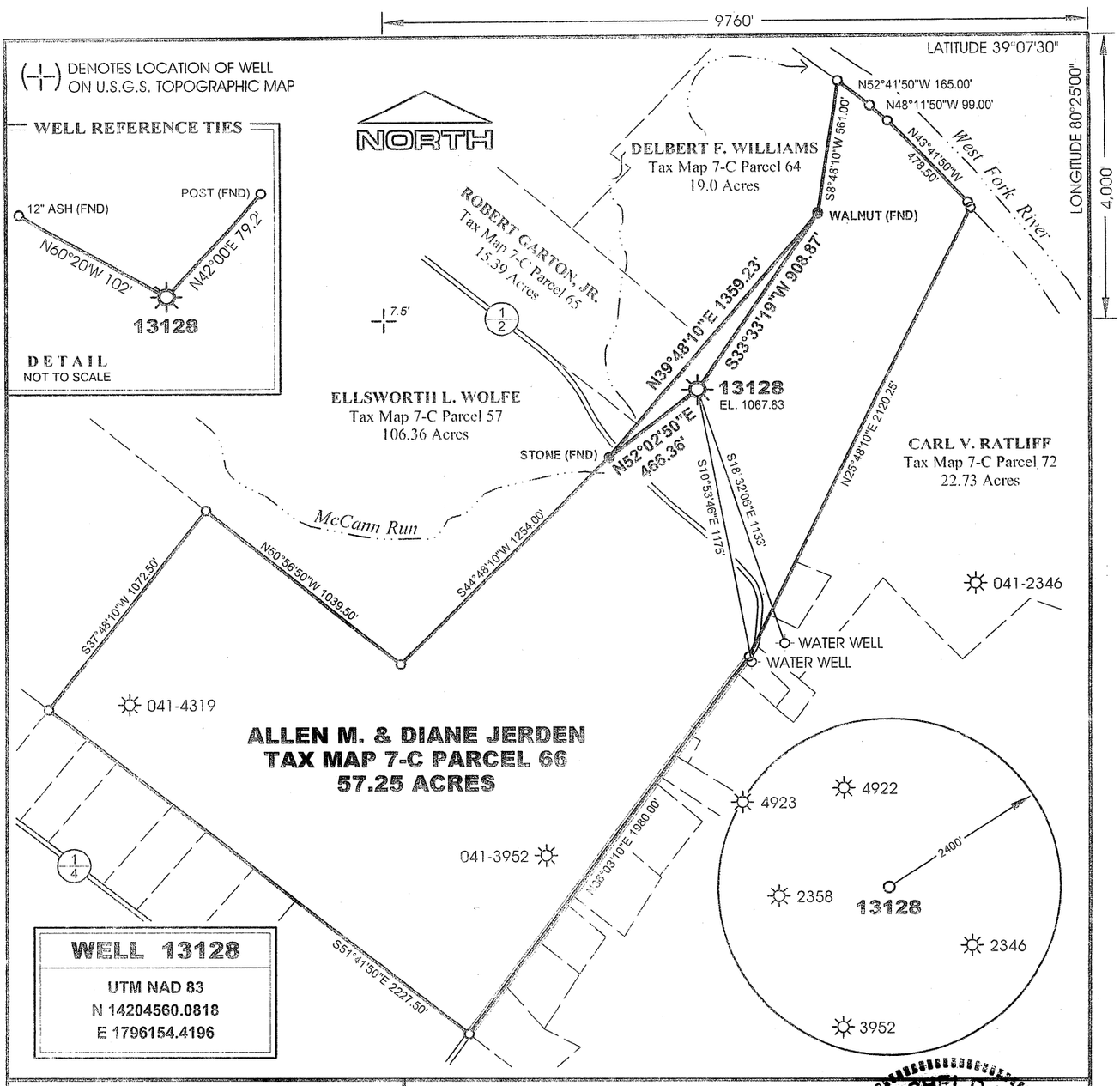
4-11-05057



SCALE 1:24000

0 1000 2000 3000 4000 5000 6000 7000

FEET



MSES consultants, inc.

FILE NO. 11-109-Well13128-WellPlat
DRAWN BY RRC / MVS
SCALE 1" = 600'
MIN. DEGREE OF ACCURACY 1 IN 2500
PROVEN SOURCE OF ELEVATION:
DGPS (SUBMETER MAPPING GRADE)

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

(SIGNED) Hershel D. Ward

R.P.E. . P.L.S. 995

HERSHEL D. WARD LICENSED No. 995 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS DIVISION

DATE OCTOBER 24, 20 11

OPERATOR'S WELL NO. 13128

API WELL NO.

47 (STATE) 041 (COUNTY) 05657 (PERMIT NO.)

WELL TYPE: OIL ☐ GAS ☒ LIQUID INJECTION ☐ WASTE DISPOSAL ☐

IF "GAS", PRODUCTION ☒ STORAGE ☐ DEEP ☐ SHALLOW ☐

LOCATION: ELEVATION 1067.83 WATERSHED McCANN RUN OF WEST FORK RIVER

DISTRICT FREEMANS CREEK COUNTY LEWIS

QUADRANGLE WESTON NEAREST TOWN LIGHTBURN

SURFACE OWNER ALLEN M. & DIANE JERDEN ACREAGE 57.25

OIL & GAS ROYALTY OWNER ALLEN M. & DIANE JERDEN, JOSHUA V. & MARSHA T. GARTON LEASE ACREAGE 114.50

LEASE NO. FK065412

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 BENSON ESTIMATED DEPTH 4,130

WELL OPERATOR DOMINION TRANSMISSION, INC. DESIGNATED AGENT MR. JAMES D. BLASINGAME

ADDRESS 445 WEST MAIN STREET ADDRESS 445 WEST MAIN STREET

CLARKSBURG, WV 26301 CLARKSBURG, WV 26301

COUNTY 041

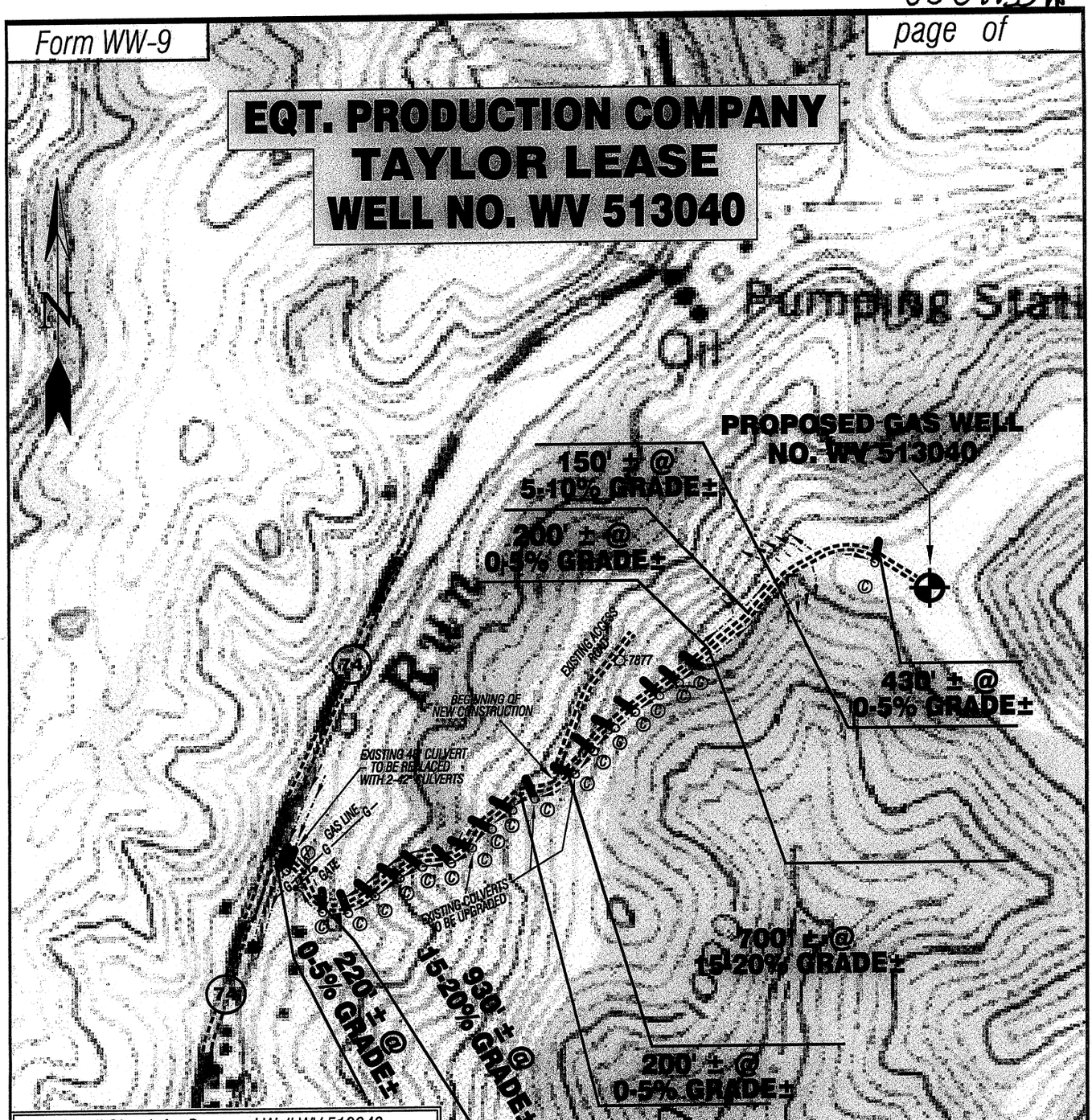
PERMIT NO.

FORM IV-6

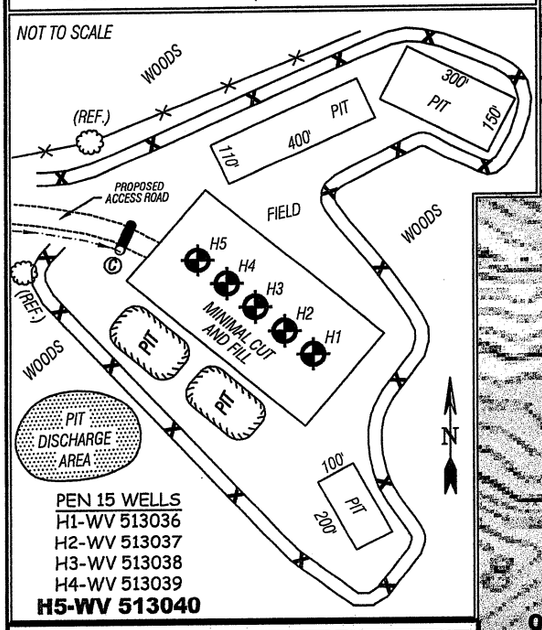
85-09933-H

Form WW-9 page of

EQT. PRODUCTION COMPANY
TAYLOR LEASE
WELL NO. WV 513040



Detail Sketch for Proposed Well WV 513040



PEN 15 WELLS
H1-WV 513036
H2-WV 513037
H3-WV 513038
H4-WV 513039
H5-WV 513040

SCALE: 1"=500'
0' 500' 1000'

TOPO SECTION OF USGS
PENNSBORO 7.5' QUADRANGLE

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.E.P. OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATION. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

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TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

APPLICATIONS FOR SEPARATE PLC PERMITS ON THE ACCESS ROAD STREAM CROSSINGS HAVE BEEN PREPARED (IF APPLIES).

= EXISTING CULVERT

Ⓒ = PROPOSED CULVERT 12" MIN. UNLESS OTHERWISE NOTED

Ⓧ = PROPOSED STREAM CROSSING (IF APPLIES)
*SEE TABLE FOR CULVERT DETAIL

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

DRAWN BY	FILE NO.	DATE	CADD FILE:
C.J.P.	7496	06/07/11	7496RECWV513040R2.dwg

FORM WW 6

EQT PRODUCTION CO.
WELL NO. WV 513040
TAYLOR LEASE
1,600 ACRES±

LANDING POINT
WELL NO. WV 513040
STATE PLANE COORDINATES
NORTH ZONE (NAD'27)
N. 280,152
E. 1,588,093

LAT=(N) 39.26003
LONG=(W) 80.95474

UTM (NAD'83)
N. 4,345,643
E. 503,919

BOTTOM HOLE
WELL NO. WV 513040
STATE PLANE COORDINATES
NORTH ZONE (NAD'27)
N. 274,837
E. 1,589,102

LAT=(N) 39.24548
LONG=(W) 80.95088

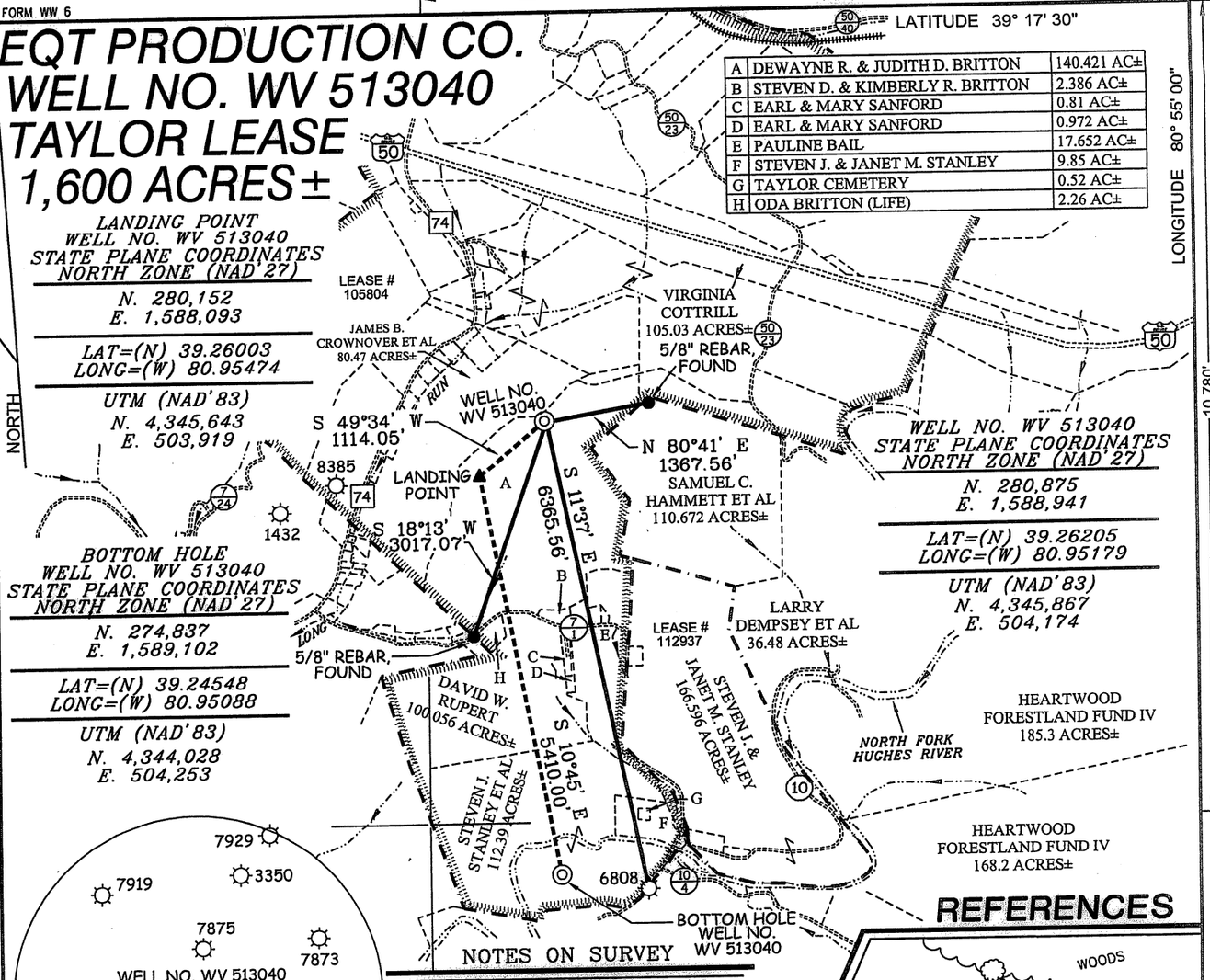
UTM (NAD'83)
N. 4,344,028
E. 504,253

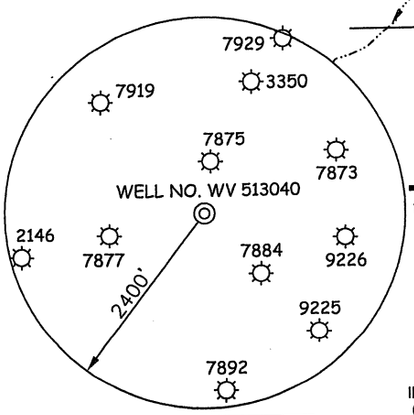
WELL NO. WV 513040
STATE PLANE COORDINATES
NORTH ZONE (NAD'27)
N. 280,875
E. 1,588,941

LAT=(N) 39.26205
LONG=(W) 80.95179

UTM (NAD'83)
N. 4,345,867
E. 504,174

A	DEWAYNE R. & JUDITH D. BRITTON	140.421 AC±
B	STEVEN D. & KIMBERLY R. BRITTON	2.386 AC±
C	EARL & MARY SANFORD	0.81 AC±
D	EARL & MARY SANFORD	0.972 AC±
E	PAULINE BAIL	17.652 AC±
F	STEVEN J. & JANET M. STANLEY	9.85 AC±
G	TAYLOR CEMETERY	0.52 AC±
H	ODA BRITTON (LIFE)	2.26 AC±

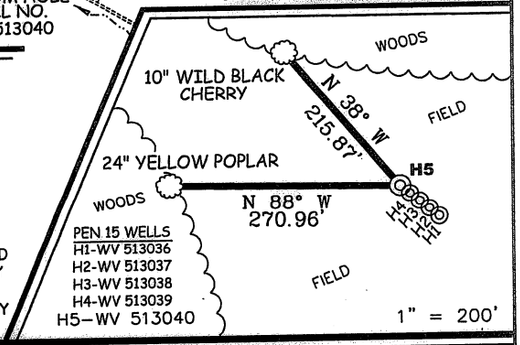




NOTES ON SURVEY

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 09/03/10.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM MULTIPLE DEEDS PROVIDED BY EQT PRODUCTION COMPANY AND VARIOUS WELL PLATS.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF RITCHIE COUNTY IN JULY, 2010.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

REFERENCES



SLS

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P.S. 677 Gregory A. Smith

GREGORY A. SMITH LICENSED No. 677 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

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

DATE JUNE 07, 20 11

OPERATORS WELL NO. WV 513040

API WELL NO. 47 – 085 – 09933 H
STATE – COUNTY – PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200

PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE)

FILE NO. 7496P513040FINAL (296-73)

SCALE 1" = 2000'

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 1,116' WATERSHED LONG RUN OF NORTH FORK HUGHES RIVER
DISTRICT CLAY COUNTY RITCHIE QUADRANGLE PENNSBORO 7.5'
SURFACE OWNER DEWAYNE BRITTON ET UX ACREAGE 140.421 OF 1,600±
ROYALTY OWNER E. R. TAYLOR HEIRS LEASE ACREAGE 1,600±
LEASE NO. 105804

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 MARCELLUS
ESTIMATED DEPTH ___

COUNTY NAME

PERMIT

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

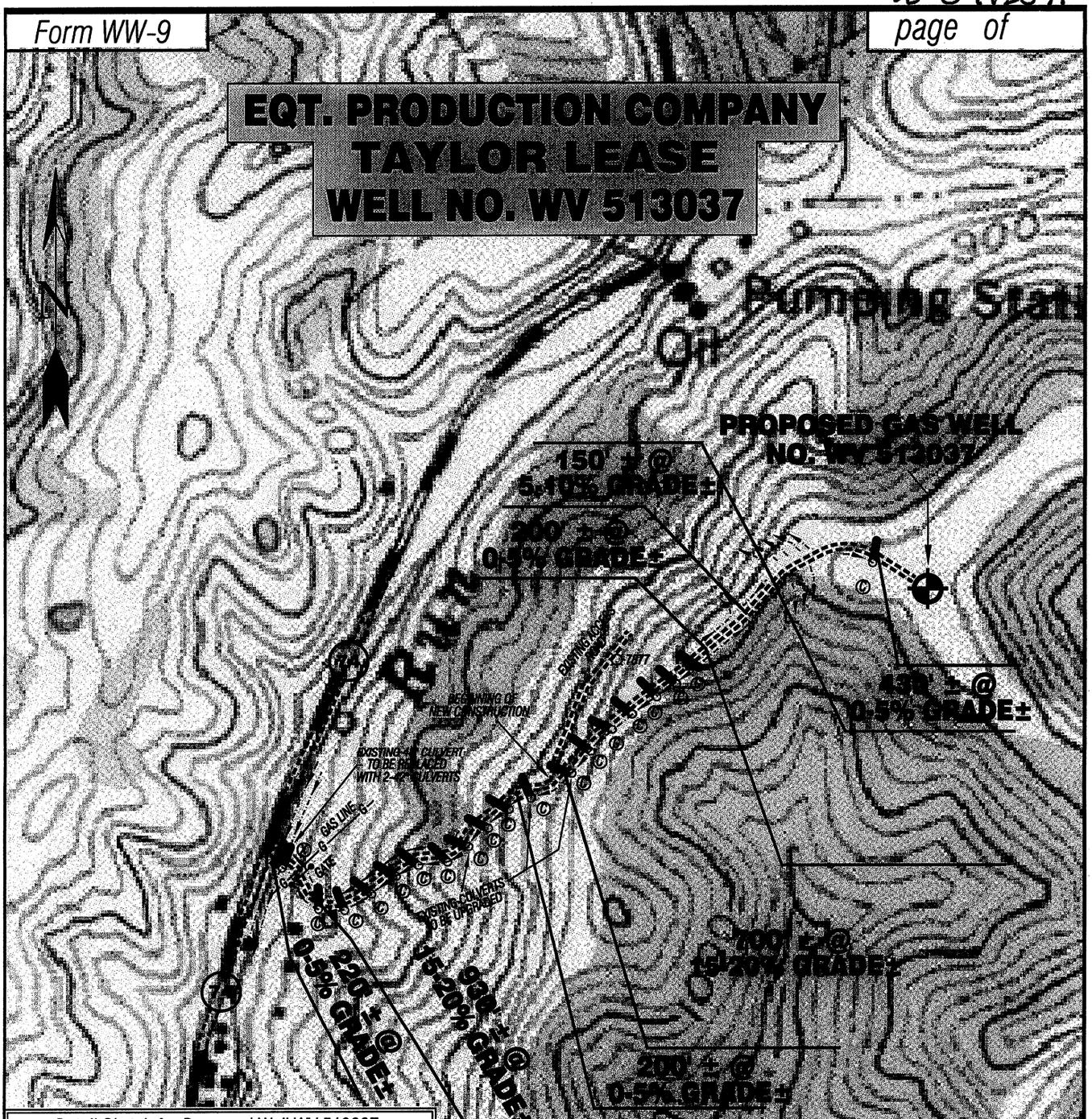
DESIGNATED AGENT REX C. RAY
ADDRESS 1710 PENNSYLVANIA AVENUE
CHARLESTON, WV 25302

124568

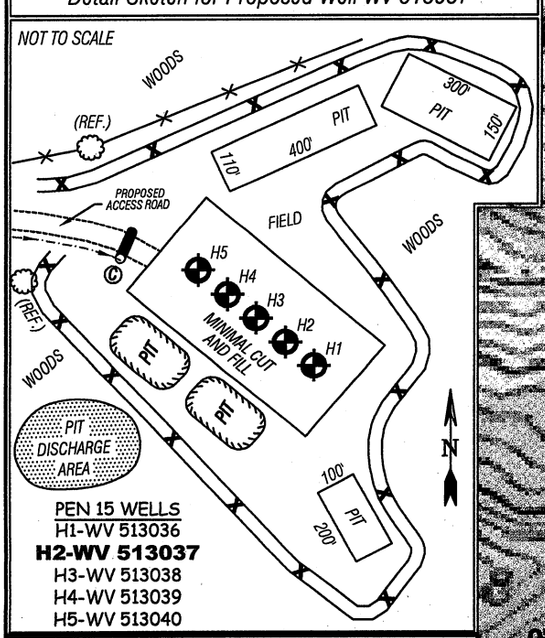
85-09930 H

Form WW-9 page of

EQT. PRODUCTION COMPANY
TAYLOR LEASE
WELL NO. WV 513037



Detail Sketch for Proposed Well WV 513037



PEN 15 WELLS
H1-WV 513036
H2-WV 513037
H3-WV 513038
H4-WV 513039
H5-WV 513040

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.E.P. OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATION. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

SEDIMENT BASINS (TRAPS) AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV D.E.P. OIL AND GAS BMP MANUAL. FIELD CONDITIONS (ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

APPLICATIONS FOR SEPARATE PLC PERMITS ON THE ACCESS ROAD STREAM CROSSINGS HAVE BEEN PREPARED (IF APPLIES).

= EXISTING CULVERT

Ⓒ = PROPOSED CULVERT 12" MIN. UNLESS OTHERWISE NOTED

Ⓧ = PROPOSED STREAM CROSSING (IF APPLIES) *SEE TABLE FOR CULVERT DETAIL

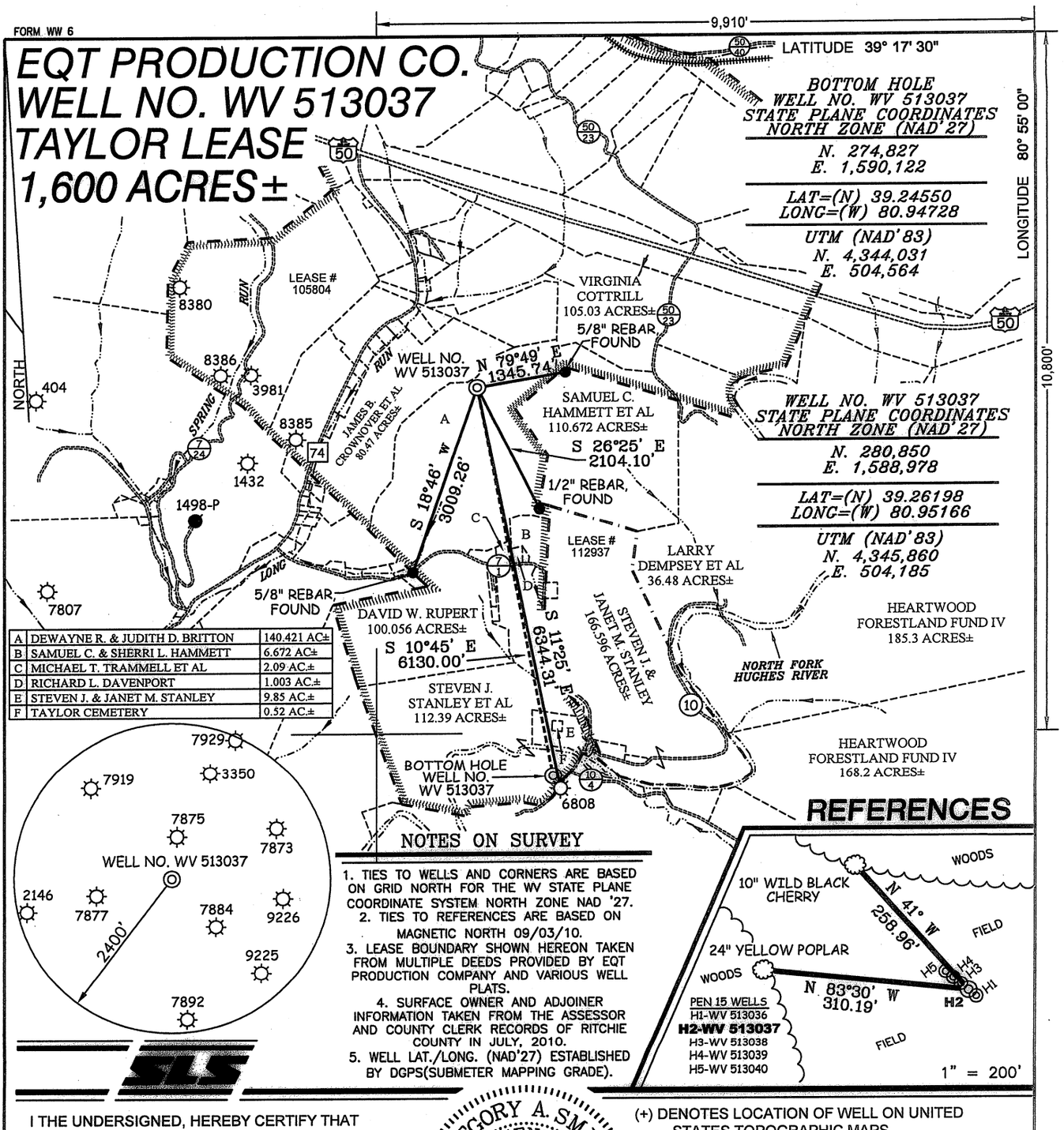
SLS
SMITH LAND SURVEYING, INC.
P.O.BOX 150 GLENVILLE, WV. 26351
PH:(304)462-5634 FAX:(304)462-5656 E-MAIL: sls@slssurveys.com

DRAWN BY	FILE NO.	DATE	CADD FILE:
C.J.P.	7496	06/07/11	7496RECWV513037R2.dwg

TOPO SECTION OF USGS PENNSBORO 7.5' QUADRANGLE

FORM WW 6

EQT PRODUCTION CO.
WELL NO. WV 513037
TAYLOR LEASE
1,600 ACRES±



A	DEWAYNE R. & JUDITH D. BRITTON	140.421 AC±
B	SAMUEL C. & SHERRI L. HAMMETT	6.672 AC±
C	MICHAEL T. TRAMMELL ET AL	2.09 AC.±
D	RICHARD L. DAVENPORT	1.003 AC.±
E	STEVEN J. & JANET M. STANLEY	9.85 AC.±
F	TAYLOR CEMETERY	0.52 AC.±

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 09/03/10.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM MULTIPLE DEEDS PROVIDED BY EQT PRODUCTION COMPANY AND VARIOUS WELL PLATS.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF RITCHIE COUNTY IN JULY, 2010.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

REFERENCES

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P.S. 677 Gregory A. Smith

GREGORY A. SMITH LICENSED No. 677 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

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

DATE JUNE 07 , 20 11

OPERATORS WELL NO. WV 513037

API WELL NO. 47 — 085 — 09930H
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200

PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE)

FILE NO. 7496P513037FINAL (296-73)

SCALE 1" = 2000'

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 1,116' WATERSHED LONG RUN OF NORTH FORK HUGHES RIVER
DISTRICT CLAY COUNTY RITCHIE QUADRANGLE PENNSBORO 7.5'
SURFACE OWNER DEWAYNE BRITTON ET UX ACREAGE 140.421 OF 1,600±
ROYALTY OWNER E. R. TAYLOR HEIRS LEASE ACREAGE 1,600±
PROPOSED WORK : LEASE NO. 105804
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 MARCELLUS
ESTIMATED DEPTH ____

COUNTY NAME

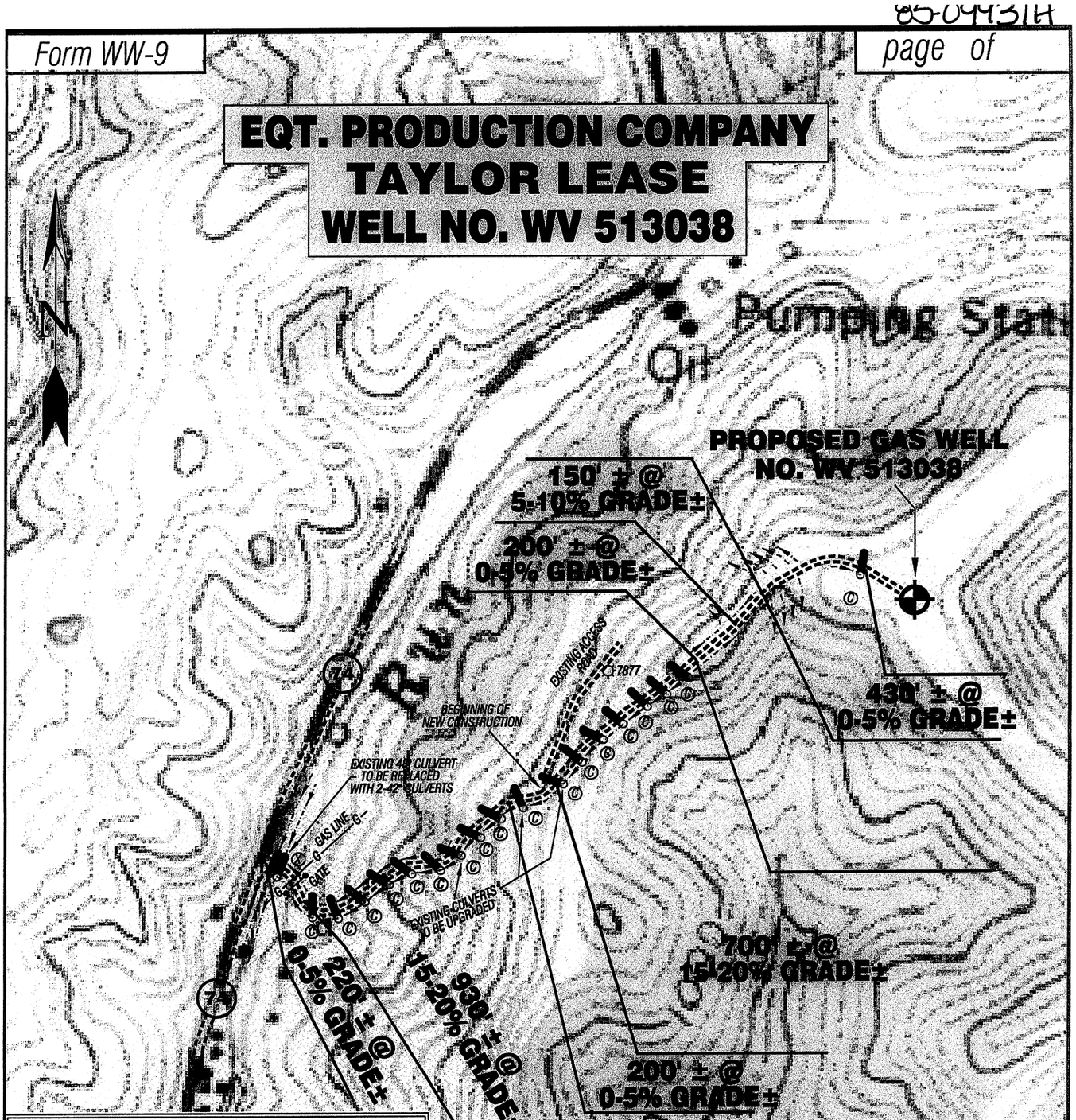
PERMIT

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

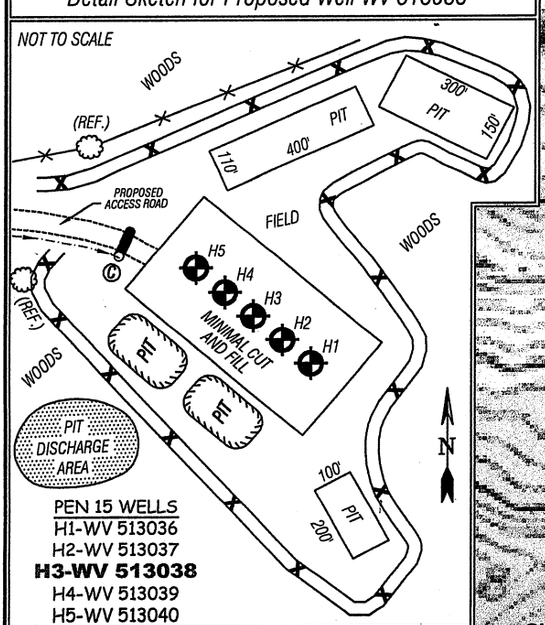
DESIGNATED AGENT REX C. RAY
ADDRESS 1710 PENNSYLVANIA AVENUE
CHARLESTON, WV 25302

SLS
124668

EQT. PRODUCTION COMPANY
TAYLOR LEASE
WELL NO. WV 513038



Detail Sketch for Proposed Well WV 513038



PEN 15 WELLS
H1-WV 513036
H2-WV 513037
H3-WV 513038
H4-WV 513039
H5-WV 513040

SCALE: 1"=500'
0' 500' 1000'

TOPO SECTION OF USGS
PENNSBORO 7.5' QUADRANGLE

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CUT & STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

APPLICATIONS FOR SEPARATE PLC PERMITS ON THE ACCESS ROAD STREAM CROSSINGS HAVE BEEN PREPARED (IF APPLIES).

= EXISTING CULVERT

© = PROPOSED CULVERT 12" MIN. UNLESS OTHERWISE NOTED

⊗ = PROPOSED STREAM CROSSING (IF APPLIES) *SEE TABLE FOR CULVERT DETAIL

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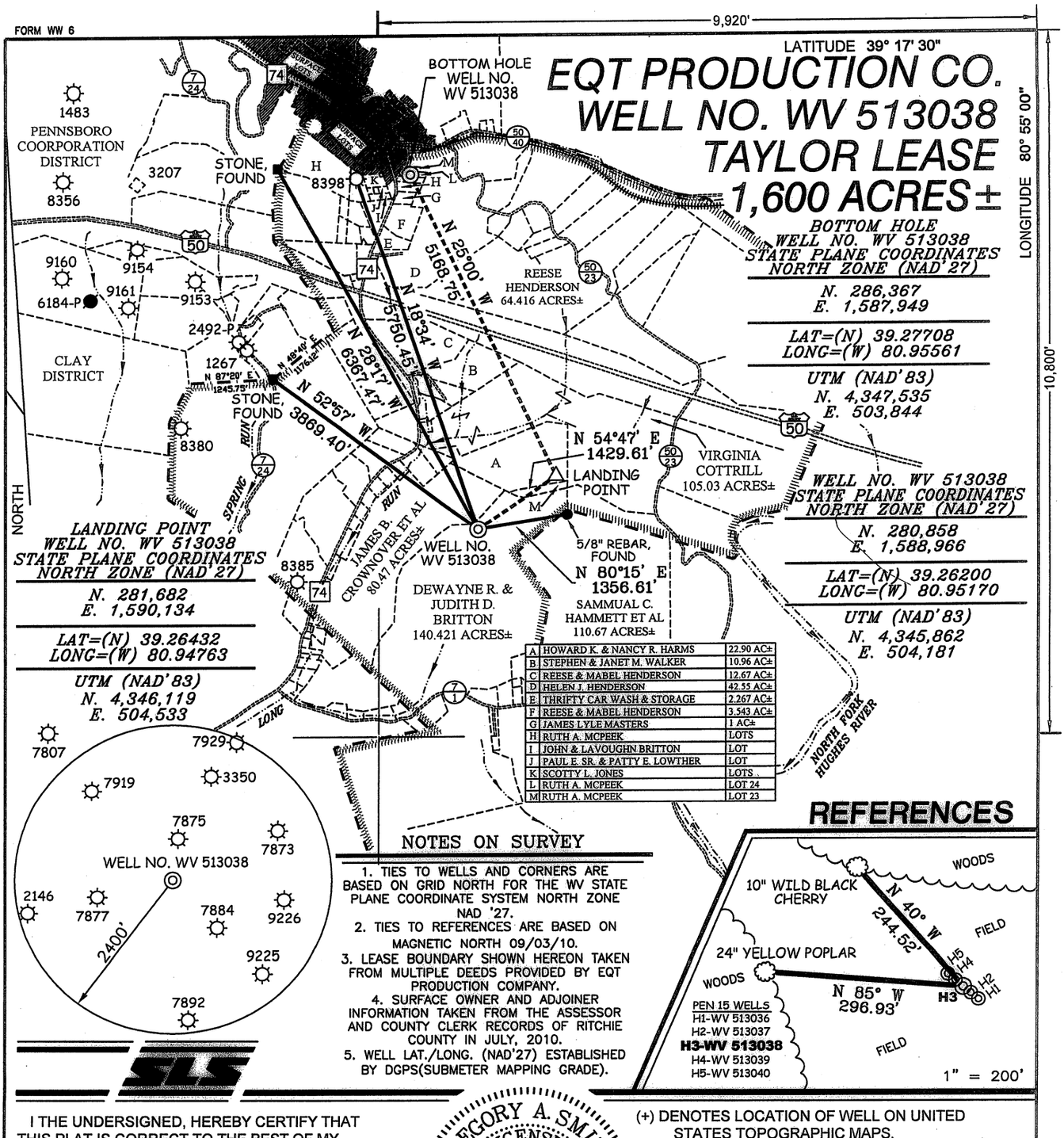
PH:(304)462-5634 FAX:(304)462-5656 E-MAIL: sls@slssurveys.com

DRAWN BY	FILE NO.	DATE	CADD FILE:
C.J.P.	7496	06/07/11	7496RECWV513038R2.dwg

FORM WW 6

EQT PRODUCTION CO.
WELL NO. WV 513038
TAYLOR LEASE
1,600 ACRES±



A	HOWARD K. & NANCY R. HARMS	22.90 AC±
B	STEPHEN & JANET M. WALKER	10.96 AC±
C	REESE & MABEL HENDERSON	12.67 AC±
D	HELEN J. HENDERSON	42.55 AC±
E	THRIFTY CAR WASH & STORAGE	2.267 AC±
F	REESE & MABEL HENDERSON	3.543 AC±
G	JAMES LYLE MASTERS	1 AC±
H	RUTH A. MCPEEK	LOTS
I	JOHN & LAVOUGHN BRITTON	LOT
J	PAUL E. SR. & PATTY E. LOWTHER	LOT
K	SCOTTY L. JONES	LOTS
L	RUTH A. MCPEEK	LOT 24
M	RUTH A. MCPEEK	LOT 23

LANDING POINT
WELL NO. WV 513038
STATE PLANE COORDINATES
NORTH ZONE (NAD'27)
N. 281,682
E. 1,590,134
LAT=(N) 39.26432
LONG=(W) 80.94763
UTM (NAD'83)
N. 4,346,119
E. 504,533

BOTTOM HOLE
WELL NO. WV 513038
STATE PLANE COORDINATES
NORTH ZONE (NAD'27)
N. 286,367
E. 1,587,949
LAT=(N) 39.27708
LONG=(W) 80.95561
UTM (NAD'83)
N. 4,347,535
E. 503,844

WELL NO. WV 513038
STATE PLANE COORDINATES
NORTH ZONE (NAD'27)
N. 280,858
E. 1,588,966
LAT=(N) 39.26200
LONG=(W) 80.95170
UTM (NAD'83)
N. 4,345,862
E. 504,181

NOTES ON SURVEY

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5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

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P.S. 677

GREGORY A. SMITH LICENSED No. 677 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

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

DATE JUNE 07 , 20 11

OPERATORS WELL NO. WV 513038

API WELL NO. 47 — 085 — 09931H
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200

PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE)

FILE NO. 7496P513038FINAL (296-73)

SCALE 1" = 2000'

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 1,116' WATERSHED LONG RUN OF NORTH FORK HUGHES RIVER

DISTRICT CLAY COUNTY RITCHIE QUADRANGLE PENNSBORO 7.5'

SURFACE OWNER DEWAYNE BRITTON ET UX ACREAGE 140.421 OF 1,600±

ROYALTY OWNER E. R. TAYLOR HEIRS LEASE ACREAGE 1,600±

PROPOSED WORK : LEASE NO. 105804

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 MARCELLUS

ESTIMATED DEPTH ___

COUNTY NAME

PERMIT

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY

ADDRESS 1710 PENNSYLVANIA AVENUE ADDRESS 1710 PENNSYLVANIA AVENUE

CHARLESTON, WV 25302 CHARLESTON, WV 25302

SLS

124588