



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

November 12, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10301938, issued to ASCENT RESOURCES-MARCELLUS, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

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

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


James Martin
Chief

Operator's Well No: C. PENNICK 50
Farm Name: WV PUBLIC LANDS
API Well Number: 47-10301938
Permit Type: Plugging
Date Issued: 11/12/2015

Promoting a healthy environment.

11/13/2015

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B
Rev. 2/01

1) Date August 31, 2015
2) Operator's
Well No. C.C. Pennick No. 50
3) API Well NO. 47-103 - 01938

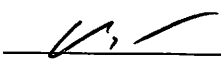
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil / Gas ___ / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow ___
- 5) Location: Elevation 1320.48' Watershed Fishing Creek
District Green County Wetzel Quadrangle Centerpoint 7.5'
- 6) Well Operator Ascent Resources - Marcellus LLC 7) Designated Agent Eric Gillespie
Address P.O. Box 13678 Address 100 Starr Ave. Suite 120
OKC, OK 73112 Parkersburg, WV 26101
- 8) Oil and Gas Inspector to be notified Name Derek Haught
Address P.O. Box 85
Smithville, WV 26178
- 9) Plugging Contractor Name _____
Address _____

10) Work Order: The work order for the manner of plugging this well is as follows:
See attached plugging schematic and plugging procedure.

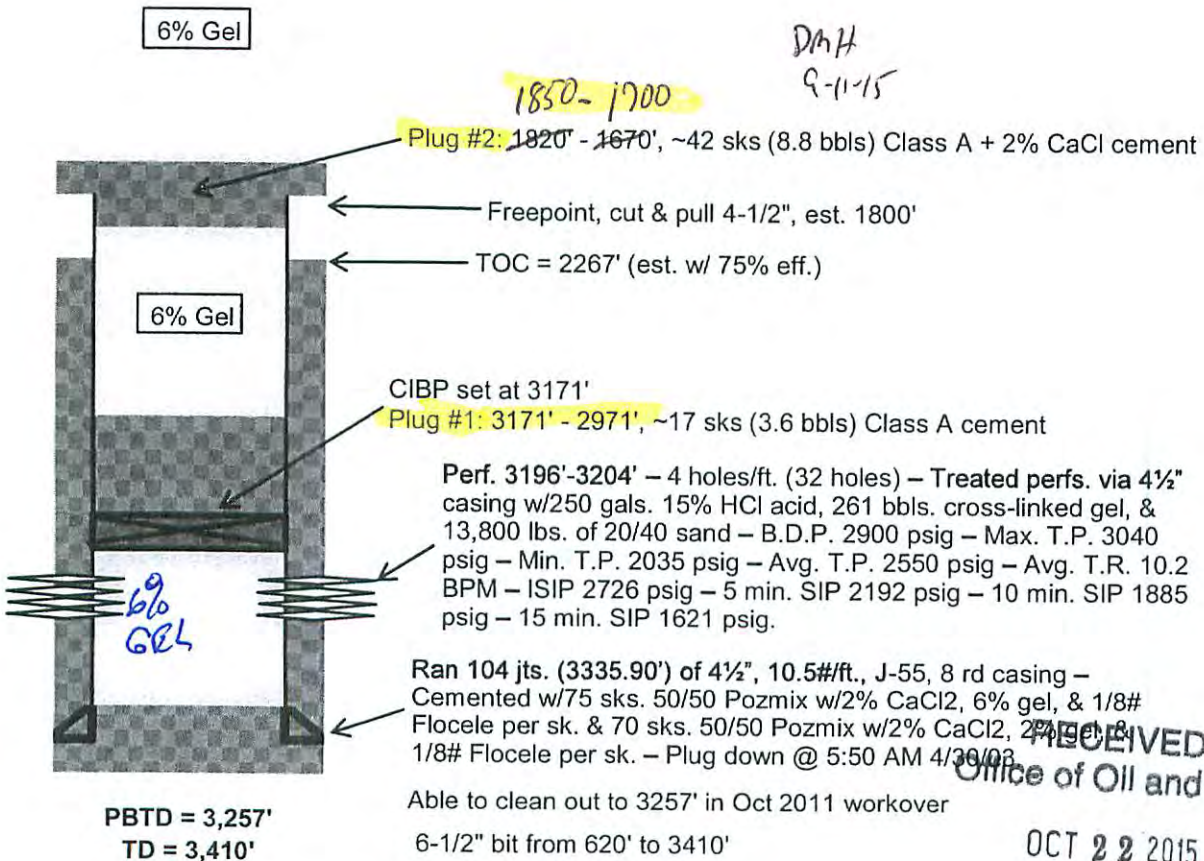
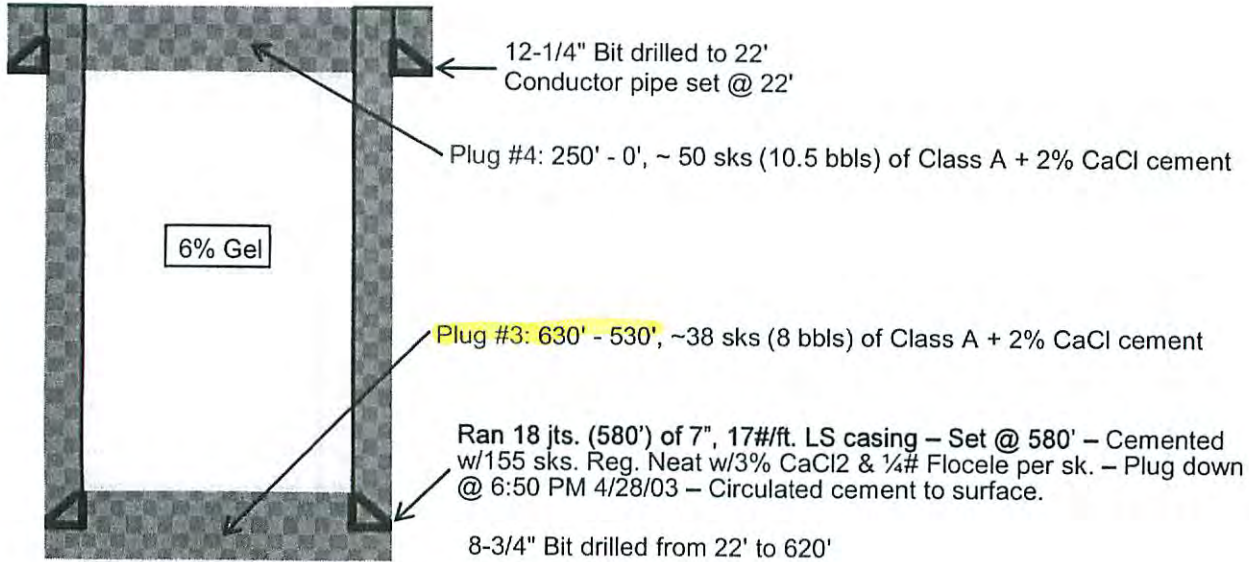
Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector 

RECEIVED
Office of Oil and Gas
Date OCT 23 2015
WV Department of Environmental Protection
11/18/2015

WV - Wetzel - CC Pennick #50 - API No. 47-103-01938
Ascent Resources - Marcellus LLC

CC Pennick #50
Permit Number 47-103-01938
Wetzel County, WV - Stringtown Field



RECEIVED
Office of Oil and Gas

OCT 22 2015

WV Department of Environmental Protection
11/13/2015

Plug #4: Calculated 50 sks with no excess from 0' to 250' with 6.538" ID casing (10.5 bbls using 1.18 ft³/sk yield).

Plug #3: Calculated 28 sks with 150% excess from 630' to 580' with 8-3/4" hole size. Calculated 10 sks (2.1 bbls) with no excess from 580' to 530' with 6.538" ID casing. Total of ~ 38 sks.

Plug #2: Calculated 39 sks (8.2 bbls) with 150% excess from ^{1250 - 1700} ~~1800~~ to ~~1670~~ with 6-1/2" hole size. Calculated 2 sks with no excess from 1800' to 1820' with 4.052" ID casing. Total of ~ 41 sks (round up to 42 sks and 8.8 bbls).

6-1/2" hole size w/ 4.5" OD casing and 75+70 = 145 sks of assumed 1.18 ft/ sk³ yield.

Plug #1: Calculated 16 sks with no excess from 3125' to 2925' with 4.052" ID casing (round up to 17 sks and 3.6 bbls to spot on top of CIBP).

RECEIVED
Office of Oil and Gas

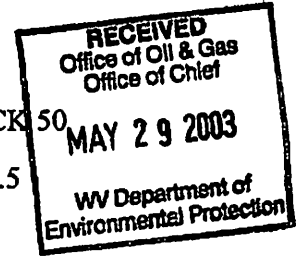
OCT 22 2015

WV Department of
Environmental Protection 10/13/2015

7-Apr-03
API # 47 103 01938

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work



Farm name: WV PUBLIC LANDS CORP Operator Well No.: C.C. PENNICK 50
LOCATION: Elevation: 1,332.00 Quadrangle: CENTERPOINT 7.5
District: GREEN County: WETZEL
Latitude: 7,225 Feet south of 39 Deg 30 Min 0 Sec.
Longitude: 8,725 Feet west of 80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: MICHAEL MCCOWN

Inspector: MIKE UNDERWOOD

Permit Issued: 04/07/03
Well work Commenced: 04/27/03
Well work Completed: 05/22/03

Verbal plugging permission granted on:
Rotary X Cable _____ Rig _____
Total Depth (feet) 3,410
Fresh water depths (ft) NA

Salt water depths (ft) NA

Is coal being mined in area (Y/N) N
Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	580.00	580.00	155 sks
4 1/2"	3335.90'	3335.90'	145 sks

OPEN FLOW DATA

* Waterflood Producer

Producing formation Gordon Pay zone depth (ft) 3196'-3204'
Gas: Initial open flow * MCF/d Oil: Initial open flow * Bbl/d
Final open flow * MCF/d Final open flow * Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock pressure _____ psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM, PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: EAST RESOURCES, INC.
By: [Signature]
Date: 5/22/03

WW-4A
Revised 6-07

1) Date: 8/31/15
2) Operator's Well Number
C.C. Pennick No. 50

3) API Well No.: 47 - 103 - 01938

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>WV Department of Natural Resources</u>	Name <u>N/A</u>
Address <u>Commerce Division</u>	Address _____
<u>Capitol Complex, Building 6, Room 525</u>	_____
(b) Name <u>Charleston, WV 25303</u>	(b) Coal Owner(s) with Declaration
Address _____	Name <u>N/A</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Derek Haught</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 85</u>	Name <u>N/A</u>
<u>Smithville, WV 26178</u>	Address _____
Telephone <u>304-206-7613</u>	_____

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator Ascent Resources - Marcellus LLC
 By: Trent L Carroll *Trent L Carroll*
 Its: Sr. Regulatory Analyst
 Address P.O. Box 13678
OKC, OK 73112
 Telephone 405-607-5476

RECEIVED
Office of Oil and Gas

SEP 14 2015

Subscribed and sworn before me this 31st day of August
[Signature] Notary Public
My Commission Expires 1/23/18

WV Department of
Environmental Protection

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

11/13/2015

WW-9
(2/15)

API Number 47 - 103 - 01938
Operator's Well No. C.C. Pennick No. 50

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Ascent Resources - Marcellus, LLC OP Code _____

Watershed (HUC 10) Fishing Creek Quadrangle Centerpoint 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain No expected waste to dispose other than produced water.)

Will closed loop system be used? If so, describe: N/A

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A

-If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used in drilling medium? N/A

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? N/A

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Trent L. Carroll

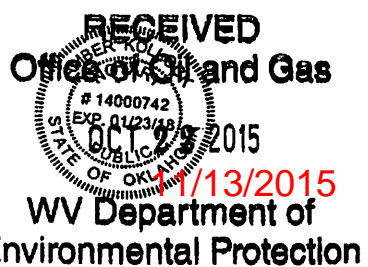
Company Official (Typed Name) Trent L. Carroll

Company Official Title Sr. Regulatory Analyst

Subscribed and sworn before me this 31st day of August, 20 15

[Signature] Notary Public

My commission expires 1/23/18



Ascent Resources - Marcellus, LLC

Proposed Revegetation Treatment: Acres Disturbed 0.7 Prevegetation pH _____

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Straw 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
Tall Fescue	40
Ladino Clover	5

Seed Type	lbs/acre
Tall Fescue	40
Ladino Clover	5

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: _____

Title: Oil + Gas Inspector

Date: 9-11-15

Field Reviewed? Yes No

RECEIVED
Office of Oil and Gas

OCT 22 2015

WV Department of
Environmental Protection
11/13/2015

WELL NAME: C.C. PENNICK No. 50
QUAD: CENTER POINT, WV

RECEIVED
Office of Oil and Gas

SEP 03 2015

WV Department of
Environmental Protection

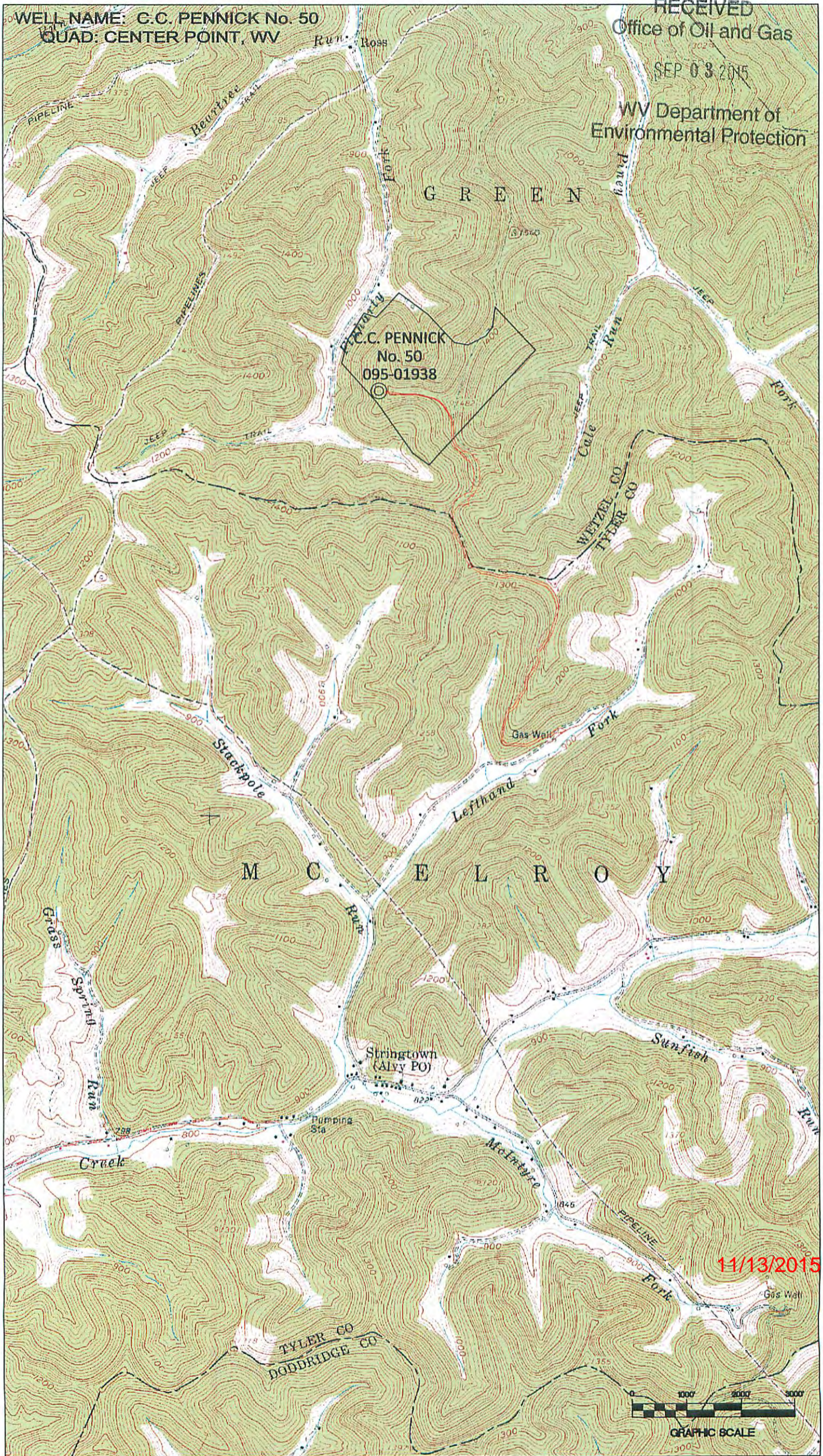
C.C. PENNICK
No. 50
095-01938

Stringtown
(Alvy PO)

11/13/2015



GRAPHIC SCALE



WELL NAME: G.C. PENNICK No. 50
QUAD: CENTER POINT, WV

G.C. PENNICK
No. 50
095-01938

G R E E N

M C E L R O Y

Stringtown (Ally PO)

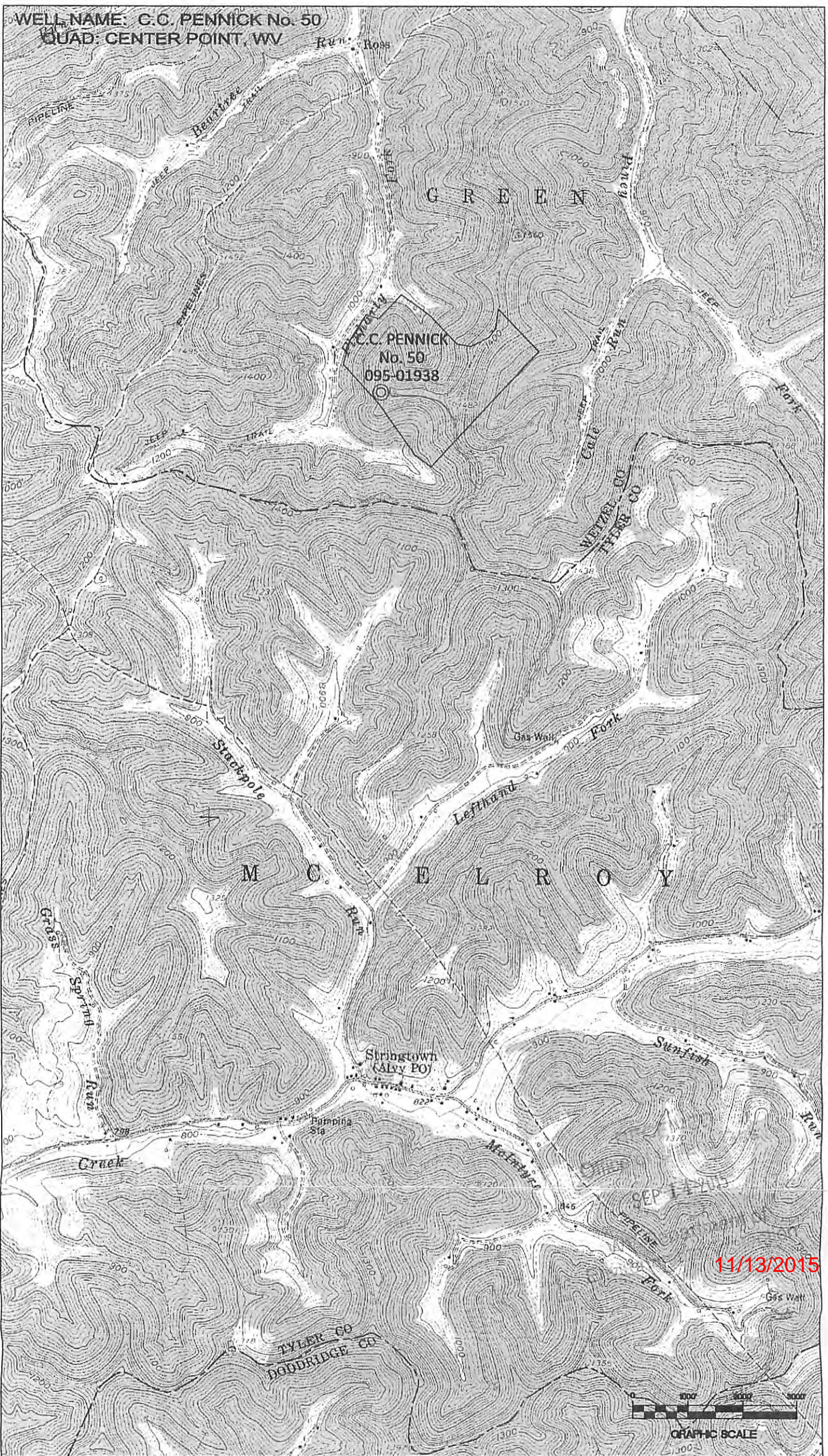
SEP 14 1915

11/13/2015

TYLER CO
DODDRIDGE CO



GRAPHIC SCALE



WW-7
8-30-06



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

API: 47-103-01938 WELL NO.: C.C. Pennick No. 50

FARM NAME: _____

RESPONSIBLE PARTY NAME: Ascent Resources - Marcellus LLC

COUNTY: Wetzel DISTRICT: Green

QUADRANGLE: Center Point, WV

SURFACE OWNER: WV Dept. of Natural Resources - Division of Commerce

ROYALTY OWNER: Ascent Resources - Marcellus LLC

UTM GPS NORTHING: 4370105.7

UTM GPS EASTING: 526027.5 GPS ELEVATION: 1320.48'

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

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

Survey grade GPS : Post Processed Differential _____

Real-Time Differential _____

Mapping Grade GPS _____ : Post Processed Differential _____

Real-Time Differential _____

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

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

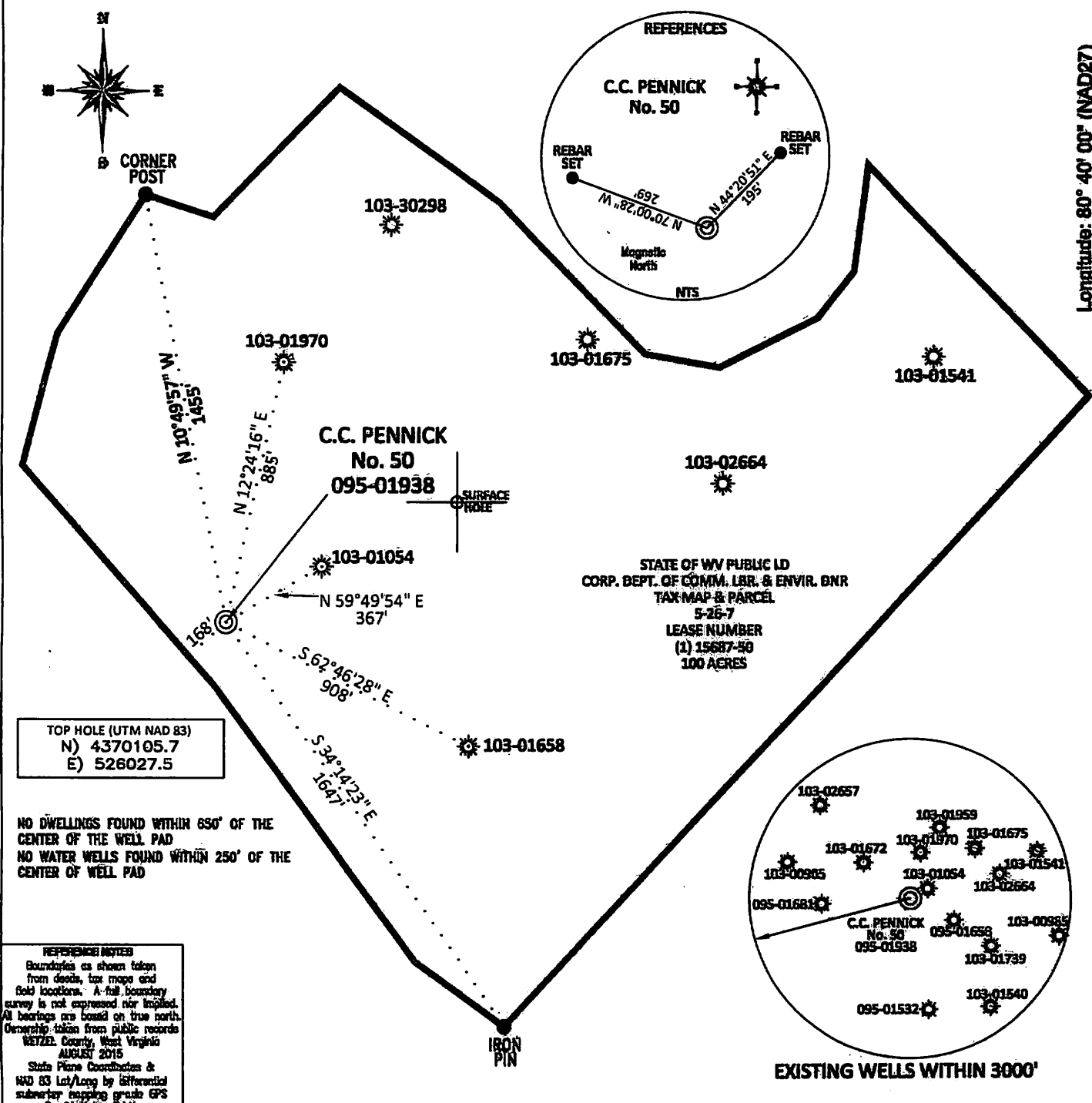

Signature

Sr. Regulatory Analyst
Title

8/31/15 RECEIVED
Office of Oil and Gas
Date

SEP 14 2015
11/13/2015

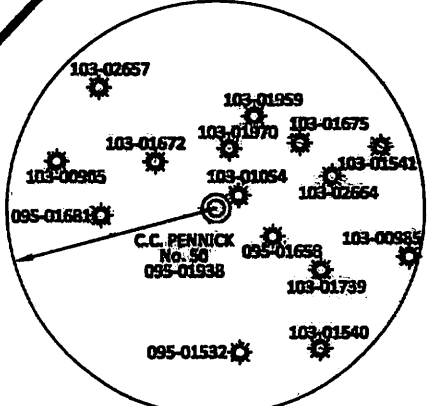
WV Department of
Environmental Protection



TOP HOLE (UTM NAD 83)
 N) 4370105.7
 E) 526027.5

NO DWELLINGS FOUND WITHIN 650' OF THE CENTER OF THE WELL PAD
 NO WATER WELLS FOUND WITHIN 250' OF THE CENTER OF WELL PAD

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 WETZEL County, West Virginia AUGUST 2015
 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS Directed by EAM



FILE #: AE003

DRAWING #: 2592
 SCALE: PLAT - 1" = 500'
TICK MARK - 1" = 2000'

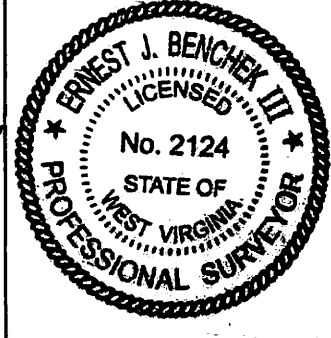
MINIMUM DEGREE OF ACCURACY: 1/200

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: AUGUST 26, 2015

OPERATOR'S WELL #: C.C. PENNICK No. 50

API WELL #: 47 103 01938
 STATE COUNTY PERMIT

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

WATERSHED: FISHING CREEK ELEVATION: 1320.48'

COUNTY/DISTRICT: WETZEL / GREEN QUADRANGLE: CENTER POINT, WV

SURFACE OWNER: STATE OF WV PUBLIC LD CORP. DEPT. OF COMM. LBR. AND ENVIR. DNR ACREAGE: 100.00 +/11/13/2015

OIL & GAS ROYALTY OWNER: Ascent Resources - Marcellus, LLC ACREAGE: 100.00 +/-

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: GORDON ESTIMATED DEPTH: TVD: 3,410' TMD: 3,410'

WELL OPERATOR: Ascent Resources - Marcellus, LLC DESIGNATED AGENT: Eric B. Gillespie
 ADDRESS: 3501 NW 63rd Street ADDRESS: 100 Star Ave. Suite 120
 CITY: Oklahoma City STATE: OK ZIP CODE: 73116 CITY: Parkersburg STATE: WV ZIP CODE: 26101

SURFACE HOLE DEC. LONG: 80.097544
 SURVEYED LONG: 80° 41' 51.2"

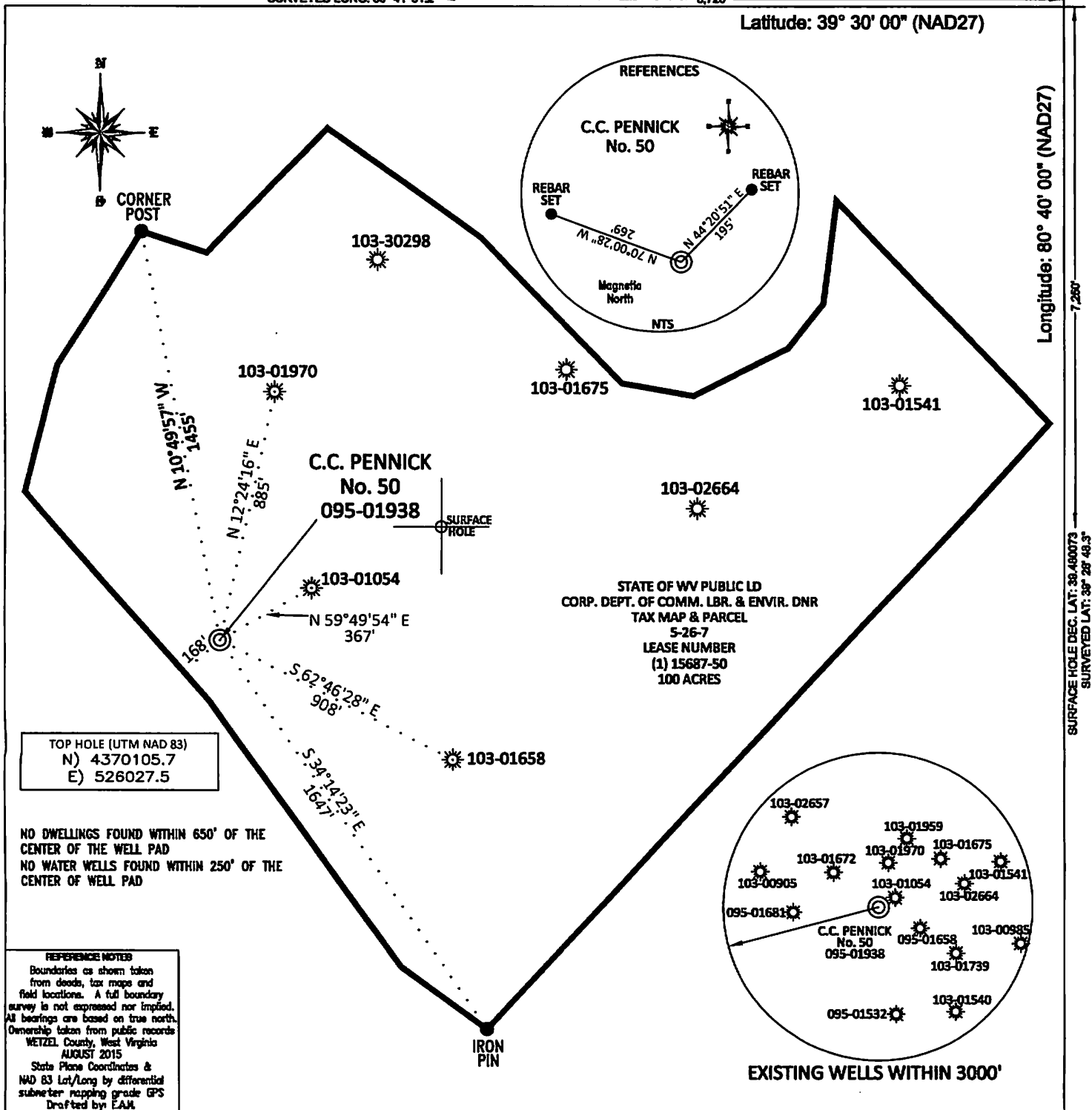
8.720'

Latitude: 39° 30' 00" (NAD27)

Longitude: 80° 40' 00" (NAD27)

7.280'

SURFACE HOLE DEC. LAT: 39.480073
 SURVEYED LAT: 39° 28' 48.3"



STATE OF WV PUBLIC LD
 CORP. DEPT. OF COMM. LBR. & ENVIR. DNR
 TAX MAP & PARCEL
 5-26-7
 LEASE NUMBER
 (1) 15687-50
 100 ACRES

FILE #: AE003

DRAWING #: 2592

SCALE: PLAT - 1" = 500'
 TICK MARK - 1" = 2000'

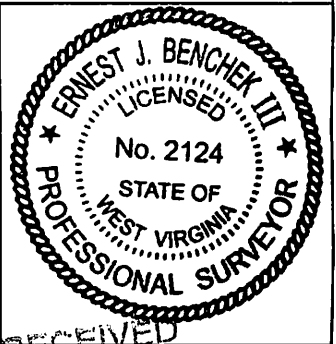
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Signed: *[Signature]*

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

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

WATERSHED: FISHING CREEK ELEVATION: 1320.48'

COUNTY/DISTRICT: WETZEL / GREEN QUADRANGLE: CENTER POINT, WV

SURFACE OWNER: STATE OF WV PUBLIC LD CORP. DEPT. OF COMM. LBR. AND ENVIR. DNR ACREAGE: 100.00 +/11/13/2015

OIL & GAS ROYALTY OWNER: Ascent Resources - Marcellus, LLC ACREAGE: 100.00 +/-

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: GORDON ESTIMATED DEPTH: TVD: 3,410' TMD: 3,410'

WELL OPERATOR: Ascent Resources - Marcellus, LLC DESIGNATED AGENT: Eric B. Gillespie

ADDRESS: 3501 NW 63rd Street ADDRESS: 100 Star Ave. Suite 120

CITY: Oklahoma City STATE: OK ZIP CODE: 73116 CITY: Parkersburg STATE: WV ZIP CODE: 26101