



west virginia department of environmental protection

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

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Thursday, July 27, 2017
WELL WORK PERMIT
Vertical / Plugging

ASCENT RESOURCES-MARCELLUS, LLC
3501 NW 63RD STREET

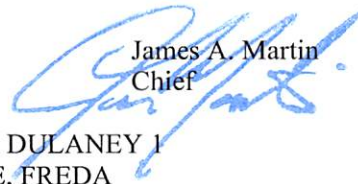
OKLAHOMA CITY, OK 73116

Re: Permit approval for W. DULANEY 1
47-103-01913-00-00

This well work permit 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 any additional specific 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 permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 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- 0450.



James A. Martin
Chief

Operator's Well Number: W. DULANEY 1
Farm Name: GREATHOUSE, FREDA
U.S. WELL NUMBER: 47-103-01913-00-00
Vertical / Plugging
Date Issued: 7/27/2017

Promoting a healthy environment.

07/28/2017

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10301913P

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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

07/28/2017

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WW-4B
Rev. 2/01

1) Date 7/5, 2017
2) Operator's
Well No. W. Dulaney #1
3) API Well No. 47-103 - 01913

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 X / Gas _____ / Liquid injection _____ / Waste disposal _____ /
(If "Gas, Production _____ or Underground storage _____) Deep _____ / Shallow _____

5) Location: Elevation 900' Watershed Fishing Creek
District Center County Wetzel Quadrangle Pine Grove

6) Well Operator Ascent Resources - Marcellus 7) Designated Agent Eric Gillespie
Address 3501 NW 63rd Address 100 Star Ave. Suite 120
Oklahoma City, OK 73116 Parkersburg, WV 26101

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Derek Haught Name PERKINS SUPPLY INC
Address P.O. Box 85 Address 2966 NORTHWEST TPKE
Smithville, WV 26178 PENNSBORO, WV 26415

10) Work Order: The work order for the manner of plugging this well is as follows:

See attached plugging procedure.

SET AN ADDITIONAL CIA CEMENT PLUG
TO COVER ELEVATION ± PITTSBURGH COAL
FROM 900' - 700'.

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JUL 7 2017
WV Department of
Environmental Protection

JWR m
OK

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

Work order approved by inspector _____ Date _____

07/28/2017

10301913 P

Dulaney, Wesley #1
API No 47-103-01913

Surface	Casing	8 - 1/4	1395'
Production	5 - 3/16		2998'
Liner			

TD
6 5/8 2121'

2842

Elev. 900'

Pull tubular's, free point production casing. Back off, rip/cut, or perforate casing as direct by state inspector. RIH w/ work string, pump. Gel 6% spacer between cement plugs. Set cement plugs as followed.

Plug 1: 2800' - 2700'
Plug 2: 50' in and 50' out of production casing stub
Plug 3: 1445' - 1345'
Plug 4: 100' - surface

• Additional Plug from 900' - 700' (Cowl & Elev)

Clean up location. Erect monument with API No

Tagged cement tops

Gel spacer is fresh water containing at less 6% of Bentonite clay by weight.
Cement plugs are Class A cement

(Office Rec. shows 84' also)

Dulaney, Wesley Well #1		Acrea 140	Lease No. 31049	
Pitts. Coal	775		Casing Record	
Gordon Sand	2622	<u>Size</u>	<u>Put In Well</u>	<u>Pulled</u>
1st. Pay	2829	10	No Record	
		8 1/2	1395	No
Total	2842	6-5/8	2121	Record
		5-3/16	2888	
Elevation	881.88		Torpedo Record	
		<u>Date</u>	<u>Qts. Shell</u>	<u>Top Shot</u>
		11/20/05	30 11'	--
		1/18/05	30 11'	--
		2/15/07	60 6Figs	--
		3/2/07	60 6 "	--
		11/4/08	60 3-4"	--
		12/12/10	110 --	--
		12/12/10	20	Did not think 1st. shot was off.
Initial Prod.				

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103.01913P

Well Sold to A.E. & M.W. Bissett 10-14-68
SOUTH PENN OIL COMPANY—COMPLETION

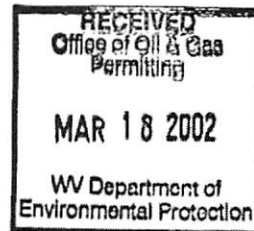
SERIAL NO. _____ FARM Wesley Dulaney. WELL NO. 1.
ELEVATION _____ N 12. S. _____ E. _____ W. 1.
LEASE NO. _____ ACRES 44³/₄.
WATERS OF Little Fishing Creek.
DISTRICT Center. COUNTY Wetzel. STATE W. Va.
DRILLING COMMENCED No record. COMPLETED No record. DEPTH. 2842'

SANDS	TOP	BOTTOM	ELEV. TOP	CASING
PGH. COAL OR SH. LIM.	775'			10" No record.
Gordon Sand.	2822'			8 ¹ / ₂ " 1395'
				6-5/8" 2121'
				5-3/16" 2888'
				PACKERS AND DEPTH SET

INITIAL PROD. No record. SAND Gordon. DEPTH 2067'

GAS TEST _____
SHOT 11/20-1905 QUARTS 30. 1/18-1905-- 30 qts. 11' Shell. 2/15-
REMARKS 1907--60qts. 3/2-1907--60qts. 12/12-1910--110qts.
12/12-1910-20qts. To put off shot.

REPORTED BY Piney District. ABANDONED _____
F. O. 534-5M-10-21



WVGES O&G Record Reporting System



Select County: **(103) Wetzel** Select datatypes: (Check All)

Enter Permit #: **01913**

Location Production Plugging
 Owner/Completion Stratigraphy Sample
 Pay/Show/Water Logs Btm Hole Loc

Get Data Reset

[Table Descriptions](#)
[County Code Translations](#)
[Permit-Numbering Series](#)
[Usage Notes](#)
[Contact Information](#)
[Disclaimer](#)
[WVGES Main](#)
["Pipeline-Plus" New](#)

WV Geological & Economic Survey:

Well: County = 103 Permit = 01913

Report Time: Monday, July 17, 2017 2:16:47 PM

Well Reassignment Information: Reassigned From

OLD_COUNTY	OLD_PERMIT	NEW_COUNTY	NEW_PERMIT
103	72523	103	1913

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4710301913	Wetzel	1913	Center	Pine Grove	Littleton	39.61855	-80.635866	531254.7	4385484.8

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4710301913	-/-	-/-	Worked Over	Cancelled	Freda Greathouse	1	Wesley Dulaney	31949-50	Eva P Jackson	East Resources, Inc.	2842	Gordon	
4710301913	-/-	-/-	Original Loc	Prpty Map	Wesley Dulaney	1				----- unknown -----			

Completion Information:

API	CMP_DT	SPUD_DT	ELEV DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG	G_BEF	G_AFT	O_BEF	O_AFT
4710301913	-/-	-/-	880	Ground Level														
4710301913	-/-	-/-					unclassified	unclassified	not available	unknown	unknown							

There is no Pay data for this well

Production Gas Information: (Volumes in Mcf)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4710301913	East Resources, Inc.	2005	33	0	0	0	1	3	5	7	5	4	4	4	0
4710301913	East Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301913	East Resources, Inc.	2007	37	2	4	2	1	12	2	3	4	3	2	1	1
4710301913	East Resources, Inc.	2008	91	0	0	0	36	39	1	2	4	3	3	2	1
4710301913	East Resources, Inc.	2010	84	0	0	0	1	1	24	50	6	1	1	0	0
4710301913	East Resources, Inc.	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301913	HG Energy, LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301913	HG Energy, LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301913	HG Energy, LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301913	Ascent Resources-Marcellus LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4710301913	East Resources, Inc.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301913	East Resources, Inc.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301913	East Resources, Inc.	2007	19	0	6	4	2	0	0	0	0	0	0	0	7
4710301913	East Resources, Inc.	2008	130	20	23	31	35	0	0	0	21	0	0	0	0
4710301913	East Resources, Inc.	2010	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301913	East Resources, Inc.	2011	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301913	HG Energy, LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301913	HG Energy, LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301913	HG Energy, LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301913	Ascent Resources-Marcellus LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4710301913	HG Energy, LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301913	HG Energy, LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4710301913	Ascent Resources-Marcellus LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0

There is no Production Water data for this well

There is no Stratigraphy data for this well

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well

3
J...

FORM WW-2B

THIS PERMIT WAS CANCELLED

Page 3 of 4

103-01913F

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: East Resources, Inc. 1 548
- 2) Operator's Well Number: Wesley Dulaney No.1 3) Elevation 880'
- 4) Well Type: (a) Oil X or Gas _____
(b) If Gas: Production _____ Underground Storage _____
- 5) Proposed Target Formation(s): Gordon
- 6) Proposed Total Depth: 2,842' feet
- 7) Approximate fresh water strata depths: NA
- 8) Approximate salt water depths: NA
- 9) Approximate coal seam depths: NA
- 10) Does land contain coal seams tributary to active mine? Yes _____ No X
- 11) Proposed Well Work: Put Well on Production (Run 4 1/2" Casing if needed).

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Permitting

MAR 18 2002

WV Department of
Environmental Protection

12) CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight Per Ft.	For Drilling / Left in Well	
Conductor	10"				No Record
Fresh Water	8 1/4"			1,395' / 1,395'	Existing Casing
Coal	6 5/8"			2,121' / 2,121'	Existing Casing
Production	5 3/8"			2,822' / 2,822'	Existing Casing *
Production	4 1/2"			2,805' / 2,805'	50 Sacks*
Liners	* If 5 3/8" casing is OK, Put well on production. If casing is bad, run 4 1/2"				
<u>- EVALUATE WELL AND DEVELOP PROGNOSIS</u>					

Packers: Kind - INSPECTOR TO BE NOTIFIED PRIOR TO CONDUCTING
 Sizes ANY WELL WORK.
 Depths set GS

For Office of Oil and Gas Use Only

- Fee(s) Paid \$350. CK # 2066
- Well Work Permit
- Reclamation Fund
- WPCP
- Plat
- WW-9
- WW-2B
- Bond _____
- Agent _____

(Type)

10301913P

WW-4A
Revised 6-07

1) Date: 7/5/2017
2) Operator's Well Number
W. Dulaney #1

3) API Well No.: 47 - 103 - 01913

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>Freda Greathouse</u> ✓	Name <u>N/A</u>
Address <u>HC 16, Box 15</u>	Address <u>RECEIVED</u>
<u>Wileyville, WV 26581</u>	<u>Office of Oil and Gas</u>
(b) Name _____	(b) Coal Owner(s) with Declaration <u>JUL 7 2017</u>
Address _____	Name _____
	Address <u>WV Department of</u>
	<u>Environmental Protection</u>
(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>Smithville, WV 26178</u>	Address _____
Telephone <u>304-206-7613</u>	

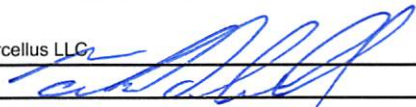
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (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 
 Its: Senior Regulatory Analyst
 Address 3501 NW 63rd
Oklahoma City, OK 73116
 Telephone 405-252-7721

Subscribed and sworn before me this 5 day of July, 2017
Amber Kollock Notary Public

My Commission Expires 1/23/18

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 depprivacyoffier@wv.gov.

07/28/2017

WW-9
(5/16)

API Number 47 - 103 - 01913
Operator's Well No. _____

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 494514693

Watershed (HUC 10) Fishing Creek Quadrangle Pine Grove

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 (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

ALL WELL EFFLUENT MUST BE CONTAINED IN TANKS AND DISPOSED OF OFFSITE, PROPERLY.
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JUL 7 2017

WV Department of Environmental Protection

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. N/A

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) N/A

-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 April 1, 2016, 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 5 day of July, 20 17

Amber Kollock

Notary Public

My commission expires 1/23/18



07/28/2017

Operator's Well No. H

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 Tons/acre

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Office of Oil and Gas

JUL 7 2017

WV Department of
Environmental Protection

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:
Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

Comments: _____

Title: _____ Date: _____

Field Reviewed? () Yes () No

Ascent Resources— Marcellus LLC.

Proposed Plugging of
W. Dulaney 1 (103-01913)
Center District
Wetzel County, WV

TOP HOLE (NAD 83)
N) 409433.88
E) 1648535.40
LAT.) 39°37'06.8"
LONG.) 80°38'09.1"
DEC. LAT.) 39.618558
DEC. LONG.) 80.635869

TOP HOLE (NAD 27)
N) 409397.02
E) 1679974.13
LAT.) 39°37'06.5"
LONG.) 80°38'09.8"
DEC. LAT.) 39.618477
DEC. LONG.) 80.636056

WILEYVILLE QUAD.
PINE GROVE QUAD.

TOP HOLE (UTM NAD 83)
N) 4385485.6
E) 531254.4

FREDA V. GREATHOUSE
TAX MAP & PARCEL
01-18-02
105.78 TOTAL ACRES

W. DULANEY 1

PRELIMINARY

BOORD, BENCHEK and ASSOC., INC.
Engineering, Surveying, Construction,
and Mining Services
Southpointe, PA 15317 Phone: 724-746-1055



JUNE 14, 2017

RECEIVED SCALE 1" = 500'
Office of Oil and Gas

JUL 7 2017

07/28/2017

103 01913P

WW-7
8-30-06

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Office of Oil and Gas

JUL 7 2017

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West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-103-01913 WELL NO.: 1

FARM NAME: W. Dulaney

RESPONSIBLE PARTY NAME: Ascent Resources - Marcellus LLC

COUNTY: Wetzel DISTRICT: Center

QUADRANGLE: Pine Grove 7.5

SURFACE OWNER: Freda Greathouse

ROYALTY OWNER: Ascent Resources - Marcellus LLC

UTM GPS NORTHING: 4385485.6

UTM GPS EASTING: 531254.4 GPS ELEVATION: 900'

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

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

Survey grade GPS ____ : Post Processed Differential ____


Real-Time Differential ____

Mapping Grade GPS X : Post Processed Differential X

Real-Time Differential ____

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

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


Signature

Sr. Regulatory Analyst
Title

7/5/2017
Date

07/28/2017