



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 20, 2015

WELL WORK PERMIT

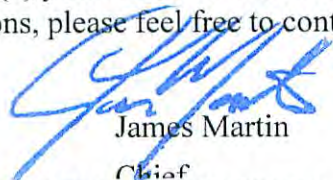
Horizontal 6A Well

This permit, API Well Number: 47-9502310, 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.

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

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

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



James Martin
Chief

Operator's Well No: GURRELL N MCY TY 7H

Farm Name: JONES, JOHN H.

API Well Number: 47-9502310

Permit Type: Horizontal 6A Well

Date Issued: 11/20/2015

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) 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. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
9. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

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

1) Well Operator: Ascent Resources-Marcellus 494514693 Tyler McElroy Center Point
Operator ID County District Quadrangle

2) Operator's Well Number: Gurrell N MCY TY 7H Well Pad Name: Gurrell MCY TY

3) Farm Name/Surface Owner: John W. Jones Public Road Access: _____

4) Elevation, current ground: 1280' Elevation, proposed post-construction: 1243.8'

5) Well Type (a) Gas X Oil X Underground Storage _____
Other _____

(b) If Gas Shallow X Deep _____
Horizontal X _____

6) Existing Pad: Yes or No No *DMA 11/20/15*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):
Marcellus, Approximate TVD 7261', approximate thickness 50', +/- 4600 psi

8) Proposed Total Vertical Depth: 7261'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 11200'

11) Proposed Horizontal Leg Length: 3459'

12) Approximate Fresh Water Strata Depths: 500'

13) Method to Determine Fresh Water Depths: Based on drilling history in nearby wells

14) Approximate Saltwater Depths: 1563'

15) Approximate Coal Seam Depths: 1100'

16) Approximate Depth to Possible Void (coal mine, karst, other): None anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No X

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

WW-6B
(10/14)

API NO. 47- 95 - 02310
 OPERATOR WELL NO. Gurrell N MCY TY 7H
 Well Pad Name: Gurrell MCY TY

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	100'	100'	330, CTS
Fresh Water	13-3/8"	New	J-55	54.5#	1210'	1210'	320, CTS
Coal							
Intermediate	9-5/8"	New	J-55	40#	3350'	3350'	1400, CTS
Production	5-1/2"	New	P-110	20#	11200'	11200'	1970
Tubing	2-7/8"	New	N-80	4.7#			
Liners							

DMH 11/20/15

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Max. Associated Surface Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438	2110	50	Class A	1.2
Fresh Water	13-3/8"	17-1/2"	0.38	2740	600	Class A	1.2
Coal							
Intermediate	9-5/8"	12-1/4"	0.395	3520	1500	Proform H20-30 Per H	Tail 1.27, Lead 1.51
Production	5-1/2"	8-3/4"	0.361	12640	5000	Proform H20-40 Per H	Tail 1.27, Lead 1.51
Tubing	2-7/8"	4.778"	0.19	11100			
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

WW-6B
(10/14)

API NO. 47-095-02310
OPERATOR WELL NO. Gurrell N MCY TY 7H
Well Pad Name: Gurrell MCY TY

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

The well will be spud using a conductor rig. It will drill down 100' per the casing program. It will set 20" casing and circulate cement back to surface. The conductor rig will move off location, a rig capable of drilling to TD will move on and finish drilling the well. We will drill on air with a tri-cone bit to set freshwater casing. We will then continue drilling vertically and setting casing per the attached casing program to TD.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

We plan to hydraulically fracture/stimulate the well utilizing the "slickwater" frac technique. We will plug and perforate through cased hole and frac with an anticipated max pressure that will not exceed 10,000 psi.

DWAH 11/20/15

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 34.9

22) Area to be disturbed for well pad only, less access road (acres): 15.5

23) Describe centralizer placement for each casing string:

Conductor: N/A
Surface: Centralizer every 3 joints or 120'
Intermediate: Centralizer every 3 joints or 120'
Production: Run 1 spiral centralizer every 120' from the first 5.5" long joint to the top of the curve
Run 1 spiral centralizer every 200' from the top of the curve to surface

24) Describe all cement additives associated with each cement type:


Conductor: Class A Cement (see attachment for complete description)
Surface: Class A Cement (see attachment for complete description)
Intermediate: Premium H/50-50 Poz H Cement (see attachment for complete description)
Productions: Premium H/50-50 Poz H Cement (see attachment for complete description)

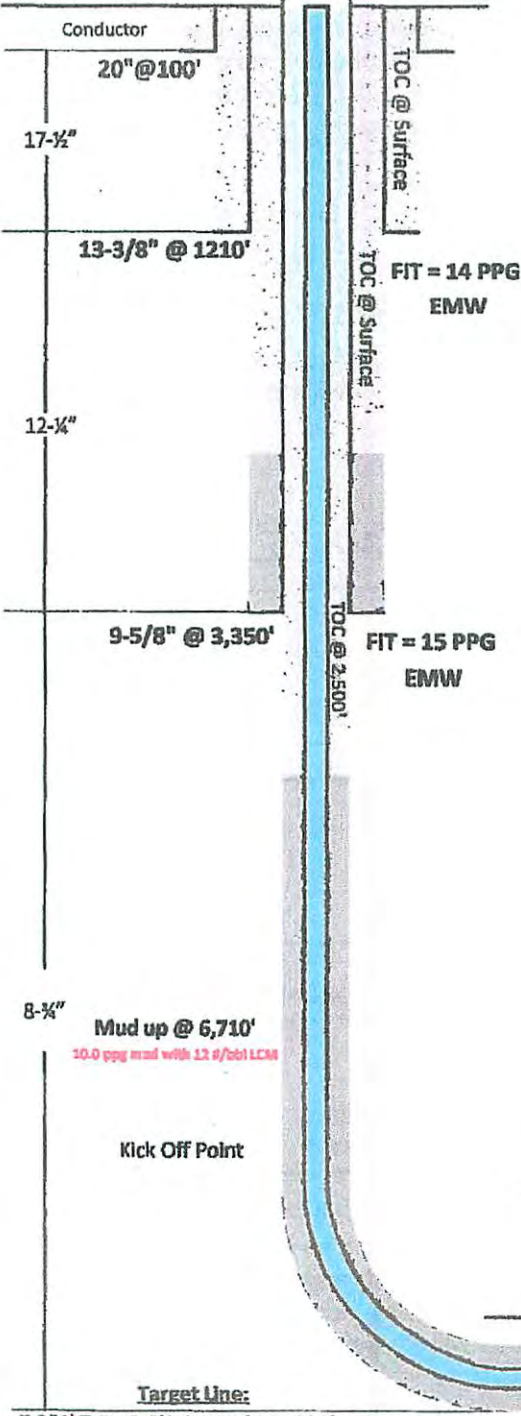
25) Proposed borehole conditioning procedures:

The wellbore will be properly circulated at TD of each section until as much of the residual drill cuttings have been removed from the wellbore as possible, residual drilling gas has been circulated out and until the mud and wellbore are both constant and stable. Mud properties will be adjusted if needed. Hole cleaning times may vary from well to well, hole section to hole section.

*Note: Attach additional sheets as needed.

95-02310

	GURRELL N MCY TY 7H			
	County, State:	Township:	Location:	Formation:
	Tyler, West Virginia	McElroy		Marcellus
	Coordinates:	SPL Lat/Long: 39.452870 N, 80.691195 W		RKB / Elevation:
NAD 27	BHL Lat/Long:		AFE DC/CWC:	
Rig:	Target Line:	7,261' TVD @ 0° VS, 90.5 Inc, 330 Azi		USDW:
				500'
				Property #:
				AFE #:



Interval	Hole size (in)	Size (in)	Weight #/ft	Grade	Conn.	Collapae (PSI)	Burst (PSI)	Depth (ft)	Cost \$/ft
Conductor	26"	20"	-	-	-	-	-	100	-
Surface	17-1/2"	13-3/8"	54.5	J-55	BTC	1,130	2,740	1,210	36
Intermediate	12-1/4"	9-5/8"	36	J-55	LTC	2,020	3,520	3,350	22
Production	8-3/4"	5-1/2"	20	P-110	ULT-DOX	11,110	12,640	11,200	22

Interval	Slurry	Weight	Ft ³	Yield	Excess	Cement Top
Conductor	Tall	15.6 ppg	330	1.20 cuft/sk	50%	Surface
	Surface					
Surface	Tall	15.6 ppg	315	1.20 cuft/sk	50%	Surface
	Lead	13.5 ppg	250	1.51 cuft/sk		Surface
Intermediate	Tall	15.3 ppg	1150	1.27 cuft/sk	30%	700
	Lead	13.5 ppg	630	1.51 cuft/sk		2500
Production	Tall	15.3 ppg	1340	1.27 cuft/sk	10%	6900

Formation	TVD	Sub Sea
Freshwater	500	780'
Pittsburgh Coal	1100	180'
Saltwater	1563	0'
Big Injun	2450	-1,170'
Big Injun Base	2650	-1,370'
Berea	3000	-1,720'
Gordon	3175	-1,895'
Gordon Base	3250	-1,970'
Middlesex	6961	-5,681'
Geneseo	7100	-5,820'
Tully	7130	-5,850'
Hamilton	7156	-5,926'
Marcellus	77226	-75,946'
Purcell	7242	-5,962'
Lower Marcellus	7244	-5,964'
Basal Marcellus	7267	-5,987'
Onondaga	7276	-5,996'
Oriskany		

DMAH 11/20/15

8-3/4" Curve and Lateral | 5-1/2" Casing @ 11,200'

Target Line:
7,261' TVD @ 0° VS, 90.5° Inc, 330° Azi

AIR INTERVALS					SYNTHETIC OIL BASED MUD INTERVAL									
Interval	Depth (MD)	Rate (cfpm)	Water (bbl/hr)	Foamer (gal/hr)	Interval	Depth (MD)	Weight (#/gal)	Viscosity (sec/qt)	HHP (ml/30min)	PV (cps)	YP (#/100 ft ²)	G RPM	WPS ppm	OWR % by vol
Surface	0' - 1210'	>5000	30-50	1/2 - 3/4	Curve	6,710' - 7,610'	10.5 - 13.5	50 - 60	4 - 6	18 - 24	10 - 12	6-9	150K - 180K	75:25 - 70:30
Intermediate	1210' - 3350'	>5000	30-50	1/2 - 3/4	Lateral	7,610' - 11,200'	13.5 - 13.7	50 - 60	4 - 6	18 - 24	10 - 12	6-9		
Vert/Nudge	3,350' - 6,710'	>5000	40-60	3/4 - 1										

11/20/2015

Cement Additives for WW-6B

Class A – Neat + 2% BWOC Calcium + Chloride + .25% BWOC Flo-Seal Additives are Polyflake LCM

Class H Premium + 0.75% FI 17 + 0.1% C41P + 0.15%C45 +3pps gilsonite + 0.2% C20 Additives are FL-17, C41-P, C-45, Gilsoite, and C-20

50/50 Poz H + 0.5 %FL 17 +5% Gyp + 0.1%C41P + 0.15% C51 + 0.1% C20 Additives are FL-17, Gypsum, C41-P, C-51, and C-20

WW-9
(9/13)

09502310

API Number 47 - _____ - _____
Operator's Well No. Gurrell N MCY TY 7H

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) Outlet Middle Island Creek Quadrangle Center Point

Elevation 1280' County Tyler District McElroy

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: Closed loop system no pits will be used

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 see attached sheet titled UIC Wells and Landfills)
- Reuse (at API Number next anticipated well)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

*Michael Goff
8-31-15*

Will closed loop system be used? If so, describe: yes; see attached sheet titled Closed loop typical description

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air, freshwater mist, and Synthetic based oil

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

Additives to be used in drilling medium? see attached sheet titled drilling additives

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill

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

-Landfill or offsite name/permit number? see attached sheet titled UIC Wells and Landfills

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 [Signature]
Company Official (Typed Name) American Energy - Marcellus, LLC
Company Official Title Regulatory Technician

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Subscribed and sworn before me this 26 day of August, 20 15

[Signature] Notary Public

My commission expires 1/23/18



8/20/2015

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Form WW-9

Operator's Well No. Gurrell N MCY TY 7H

Ascent Resources - Marcellus, LLC

Proposed Revegetation Treatment: Acres Disturbed _____ Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch minimum of 2-3 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

See attached

See attached

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: Michael Doff

Comments: Preseed & Mulch any disturbed areas per WVDEP regulations. Maintain & upgrade E&S as necessary.

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Title: Oil & Gas Inspector Date: 8-31-15

Field Reviewed? () Yes () No

UIC WELLS and Landfills

<u>Disposal Location</u>	<u>Type</u>	<u>Permit No.</u>
Wetzel County Landfill –	Landfill	SWF-1021/WV010985
Short Creek Landfill –	Landfill	SWP-1034/WV0109517
Brooke County –	Landfill	SWF-1013/WV0109029
Kemble -	UIC Well	34-119-2-8780-00-00
Elkhead-	UIC Well	34-157-2-5511-00-00
Kent Injection Well	UIC Well	34-119-2-7350-00-00
Moran Well	UIC Well	34-089-2-4412-00-00

Closed Loop Typical Description

A series of storage tanks that separate liquids and solids along with screen shakers, hydro cyclones, centrifuges and collection equipment (e.g., vacuum trucks, shale barges) may be on site. The wastes created are minimized and transfer red off-site for disposal.

Drilling Additives

Air mist system additives are commonly; Drilling Foam, Drilling Soap, and occasionally Shale Stabilizer (KCI).

Synthetic Oil Based Additives

The base oil is the main ingredient, and it will run approx. 70% of the fluid volume, water will make up about 25%, the remaining 5% by volume will include a mixture of the following:

ANCO Gel

Cottonseed Hulls	Base Oil	Anco Thunder Plug
D294	Anco Mud Mod	Calcium Carbonate M
Anco Bar	Anco Mul OW	Cedar Fiber
Clayton	Anco Mul P	LCF Blend
Lime	Anco Mul S	Walnut Shell Med
Calcium Chloride	Anco Mul Thin	Anco Drill A
Anco Trol		

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Temporary and Permanent Seed Mix

250 lbs. /acre

Mix Details

Medium red clover	4%
Alsike clover	4%
Birds foot trefoil	5%
Forage tall fescue	45%
Forage perineal rye	20%
Annual rye	11%
Winter wheat	10%

Straw

Winter – 3 ton per acre

Summer – 2 ton per acre

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Gurrell N MCY TY 7H



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9. Exhibits

.....Attached
 A. Exhibit "A": Site Plan
 B. Exhibit "B": Topographic Site Map
 C. Exhibit "C": Sign-In Sheet
 D. Exhibit "D": Drilling Prog / List of Anticipated Freshwater, Saltwater, Oil and Gas,
 Hydrogen Sulfide, Thief Zones and High Pressure and Volume Zones and Their Expected
 Depths
 E. Exhibit "E": Detailed Casing & Cementing Program Schematic
 F. Exhibit "F": Daily Drilling Report
 G. Exhibit "G": H₂S Monitoring Placement Schematic
 H. Exhibit "H": Survey Verification Sign-In Sheet

Ascent Resources – Marcellus, LLC.
Main Office Address
3501 NW 63rd Street, Suite 600
Oklahoma City, OK 73116
Office Phone: 405-607-5529
Fax: 405-607-5859

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1. Contacts, Schedules and Meetings

ASCENT RESOURCES – MARCELLUS, LLC EMERGENCY CALL LIST		
CONTACT	OFFICE	MOBILE
Ascent Resources Emergency Call # (24/7)	1-866-402-8767	
John Cogar, Operations Manager	(740) 432-9009	(614) 896-0258
Bob Adams, EH&S Field Manager	(740) 432-9008	(614-) 896-0270
Rich Weber, EH&S Emergency Response Coordinator	(740) 432-9041	(614) 817-2310
Eric Gillespie, Senior EH&S Specialist	(405) 607-5429	(405) 255-3617
John Melville, Drilling Superintendent Consultant	(814) 573-6692	(614) 374-3684
Stan Cherry, Drilling Superintendent Consultant	(740) 342-9027	(614) 915-6398
Richard Thompson, Drilling Superintendent Consultant	(740) 342-9027	(405) 902-1776
Jim Tully, Manager - Drilling	(405) 608-5692	(479) 790-5053
Tim Cummings, Director - Operations	(405) 608-5491	(405) 902-0277

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WVDEP Inspector Emergency Reporting:

DEP Emergency Reporting: 1-800-642-3074

NAME	COUNTY	CELL PHONE	EMAIL ADDRESS
David Cowan	Ritchie	304-389-3509	David.W.Cowan@wv.gov
Derek Haught	Wetzel	304-206-7613	Derek.M.Haught@wv.gov
Joe Taylor	Tyler	304-380-7469	Joseph.D.Taylor@wv.gov
David Scranage	Doddridge	304-380-3749	David.K.Scranage@wv.gov
Tristan Jenkins	Marion	304-552-3874	Tristan.A.Jenkins@wv.gov
Tristan Jenkins	Monongalia	304-552-3874	Tristan.A.Jenkins@wv.gov
Joe McCourt	Gilmer	304-380-2467	Joseph.A.McCourt@wv.gov
Joe Taylor	Wirt	304-380-7469	Joseph.D.Taylor@wv.gov
Bryan Harris	Lewis	304-553-6087	Bryan.O.Harris@wv.gov
Ed Gainer	Roane	304-389-7582	Edward.N.Gainer@wv.gov
Terry Urban	Kanawha	304-549-5915	Terry.W.Urban@wv.gov
Ralph Triplett	Lincoln	304-389-0350	Ralph.D.Triplett@wv.gov
Tristan Jenkins	Harrison	304-552-3874	Tristan.A.Jenkins@wv.gov

*Needs
Corrected*

County EMS – EMERGENCY CALL 911

NAME	COUNTY	PHONE
Grandview Ambulance	Wetzel	304-455-5737
Hundred Ambulance		304-775-7455
New Martinsville Ambulance		304-455-5931
Paden City Ambulance		304-337-2281
Pine Grove Ambulance		304-889-3393

County Health Departments

NAME	COUNTY	PHONE
Wetzel/Tyler Health Department	Wetzel	304-337-2001
Wetzel/Tyler Health Department	Tyler	304-337-2001
Harrison/Clarksburg Health Department	Harrison	304-623-9308

National Response Center (USEPA and Coast Guard): 800-424-8802

Emergency Contact List			
911 for Primary Call for Immediate Emergency Response			
Spill Response Contractor Emergency Call Order			
Name	Phone	Responding Address	Notes
CTEH	866-869-2834		
Dispatch			

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Name	Phone	Address	Notes
Wetzel County Dispatch	304-455-6730	New Martinsville	
Fire Departments			
Name	Phone	Address	Notes
Wyleyville	304-889-2442	HC 68, Wyleyville, WV	
Pine Grove	304-889-3353	Joliff St, RR 20, Pine Grove, WV	
Hundred	304-775-7455	Pennsylvania Ave, Hundred, WV	
Silver Hill	304-775-2925	Route 89, Hundred, WV	
Jacksonburg	304-889-2400	Buffalo Road, Pine Grove, WV	
Smithfield	304-334-3642	Manning Road, Smithfield, WV	
New Martinsville	304-455-9115	400 Ohio St, New Martinsville, WV	
Grandview	304-455-1317	RR1, Proctor, WV	
Reader	304-386-4666	Route 20, Reader, WV	
Law Enforcement			
Name	Phone	Responding Address	Notes
Wetzel County Sheriff	304-455-8200	New Martinsville, WV	
WV State Police	304-775-4488	Hundred, WV	
WV State Police	304-455-0913	New Martinsville, WV	
Emergency Management/LEPC			
Wetzel County EMA/911/LEPC	304-455-6960	New Martinsville, WV	

There are no schools or public facilities within 1 mile of the location.

C. H₂S Notification

Any residential notification will be made verbally after travelling to each residence. Emergency responders will be notified via cell phone or radio communications. Protection zones will be established through coordination with local emergency responders.

D. Pre-spud Meeting

A Pre-Spud meeting will be held with rig crews, directional company, closed loop crew, solids control crew, and mud engineer(s). The following will be completed as part of the pre-spud meeting:

- Include all personnel to be employed and directly involved in the drilling operations and include the district oil and gas inspector and/or other designated Office of Oil and Gas representative.
- All attending personnel must sign Pre-Spud Meeting Sign-In sheet. The Sign-In sheet is included as Exhibit "C".

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E. Weekly Site Safety Meetings

A weekly site safety meeting will be held with drilling, completion and work-over crews during operations. The following will be completed as part of the weekly meeting:

- Include all personnel to be employed and directly involved in the operations and include the district oil and gas inspector and/or other designated Office of Oil and Gas representative.
- All attending personnel must sign Meeting Sign-In sheet. The Sign-In sheet is included as Exhibit "C".

2. Maps and Diagram**A. Map of Location**

Exhibit "A" illustrates the location of the access road, evacuation route, drilling pad, prevailing winds and a topographic map of the area. Ascent Resources – Marcellus, LLC is not constructing any pits for these operations. There are no nearby dwellings in the vicinity of our drilling location.

B. Topographic map

Exhibit "B" illustrates the topographic map of the well location, including well locations and UTM NAD 83 coordinates of the surface location.

C. Evacuation Plan

All personnel who are on location will be instructed as to the location of a primary muster point to be utilized in the event of an emergency. The primary muster point at the well site will most always be off of the location along the access road. Evacuation routes will be identified for each muster point, but will primarily be in the direction of and along the access road.

In the event that evacuation of residents in the surrounding area is required, an immediate phone call to 911 will be made by the person in charge at the location. The caller will inform authorities of the nature of the problem at the drill site. If required, the drill site supervisor will request assistance from local authorities if the evacuation of nearby residents is required. Muster points and evacuation routes are depicted on the Site Plan included as Exhibit "A".

3. Well Work**A. Procedure and schedule**

1. Wells – Each well is equipped with a pumping unit, wellhead assembly, and flowlines to transfer natural gas and/or oil. The following operations typically occur at each well site during the life of the well:
2. Pad construction_– Prior to drilling the wells, a sufficient well pad must be constructed to manage the drilling and supporting equipment necessary to make the well site operational. Erosion and sediment (E&S) controls are installed to limit the effects of the disturbance and to provide limited secondary containment of site operations.
3. Drilling_– Following construction of the well pads, wells are drilled to access the target formations. Typically, a conductor casing is installed, followed by tophole well installation (surface and intermediate strings) and horizontal well installation. Once the well(s) are drilled, casing is installed prior to stimulation and final production.

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4. Stimulation (“fracturing”) – Once the well has been drilled, it must be stimulated (“fractured”) to obtain optimum performance of the well. The well casings are perforated; then water and other materials are injected under high pressure to fracture the rock of formation providing the natural gas. The majority of the water and materials “flows back” following stimulation and prior to production. The water utilized to stimulate the well is transported either utilizing tank trucks or dedicated pipelines. Produced water is stored on-site in tanks.
5. Pad restoration – Within 9 months after the well has been stimulated and begins producing, the size of the well pad is reduced, the disturbed areas are restored, and the scale of E&S controls is reduced.

B. Supporting Structures

1. Flowlines – Flowlines transfer natural gas to the central production facility. Buried flowlines transporting water, flowback fluids, and brine are constructed of steel. Low pressure natural gas lines are constructed of polyethylene, high pressure natural gas lines are constructed of steel.
2. Separators – Separators are utilized to remove naturally occurring water and brine from the natural gas.
3. Storage – Bulk storage tanks are utilized to store produced fluids are provided with secondary containment.

C. Notifications

Notifications via telephone and/or email to the WV DEP inspectors will be made in accordance with the existing regulations and include the following:

- 1) Contact the State Inspector at least 24 hrs prior to spudding the well.
- 2) Call WV-DEP O&G Inspector prior to spud, rig moves, cement jobs (24 hr. notices)
- 3) A Copy of the Site Safety Plan will be submitted to the County Emergency Services office within 7 days from land disturbance or well work.

4. Chemical Inventory & MSDS

A. Material Safety Data Sheets

Material safety data sheets will be readily available onsite at the well location, and will be kept up-to-date by the drilling superintendent. All MSDS are included on the attached CD.

B. Inventory of Materials

An inventory of drill mud is included below. Material Safety Data Sheets will be located on site within the doghouse and are attached on the CD:

ExWate	Citric Acid	Bicarbonate of Soda	Graphite
Evolube DPE II	Pollmer Beads	Salt (Sodium Chloride)	Newzan D
Newpack R	Newpack	DynaLose CM	Sodium Hydroxide
Soda Ash	Diald 25	Nofoam A	Nofoam X
NewArmor	Newplug	Cotton Seed Hulls	Magma Fiber
Newcarb Fine	Newcarb Medium	60/40 blend	

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5. BOP and Well Control

A. List of BOP Equipment

The BOP equipment required for Ascent's well drilling activities is detailed in the schematic below:

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BLOWOUT PREVENTER SCHEMATIC

WELL :
 FIELD :
 RIG :
 COUNTY :
 OPERATION : 8 3/4" or 7 7/8" Production Hole

STATE :
 REVISION : : / /

Component Descriptions

Size	Pressure	Description	
A	11"	500 psi	Rotating Head
B	11"	5,000 psi	Annular
C	11"	5,000 psi	Pipe Ram
D	11"	5,000 psi	Blind Ram
E	11"	5,000 psi	Mud Cross
F			
G			
H			
DSA			
C Sec			
B Sec	13 3/4" 3M x 11" 5M w/ 5M Gate Valves		
A Sec	13 3/4" SOW x 13 3/4" 3M w/ 3M Gate Valve		

Function	Reference

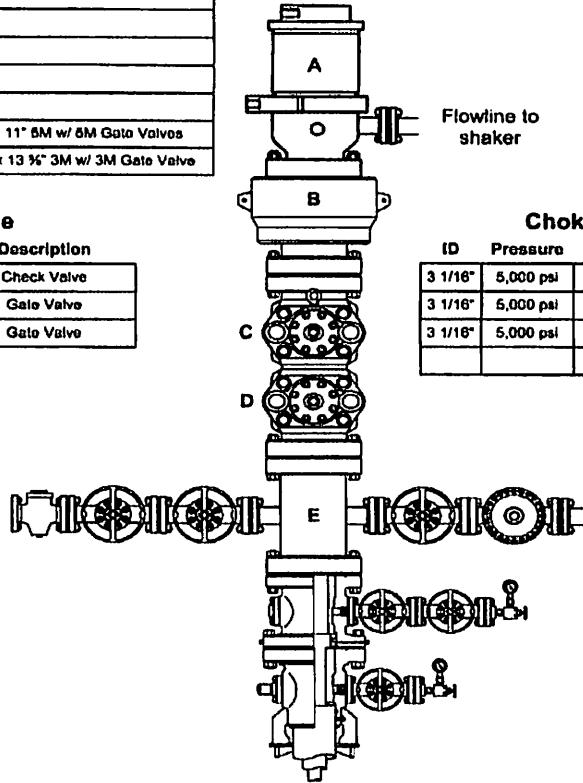
Trip Tank Required: Yes No

Kill Line

ID	Pressure	Description
2 1/16"	5,000 psi	Check Valve
2 1/16"	5,000 psi	Gate Valve
2 1/16"	5,000 psi	Gate Valve

Choke Line

ID	Pressure	Description
3 1/16"	5,000 psi	Gate Valve
3 1/16"	5,000 psi	HCR Valve
3 1/16"	5,000 psi	Steel or Coflex Line



Testing Requirements

Item	Pressure	Frequency
Rotating Head	250 / 500 psi	Once prior to DO shoe
Annular	250 / 1,500 psi	Every 21 Days
Rams	250 / 5,000 psi	Every 21 Days
Choke Manifold	250 / 5,000 psi	Every 21 Days

- Visual inspection at least once each tour.
- Function test pipe rams once per day while drilling.
- Function test blind rams on trips (not more than once per day)

Approved by _____ Date _____

DCU _____
 VP _____
 BCU _____

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BLOWOUT PREVENTER SCHEMATIC

WELL :
 FIELD :
 RIG :
 COUNTY :
 OPERATION : 12 1/2" Intermediate Hole

STATE :
 REVISION : : / /

Component Descriptions

	Size	Pressure	Description
A	13 1/2"	500 psi	Rotating Head
B	13 1/2"	3,000 psi	Annular
C	13 1/2"	3,000 psi	Mud Cross
D	13 1/2"	3,000 psi	Drilling Spool
E			
F			
G			
H			
DSA			
C Sec			
B Sec			
A Sec	13 1/2" SOW x 13 1/2" 3M w/ 3M Gate Valve		

Exception	Reference

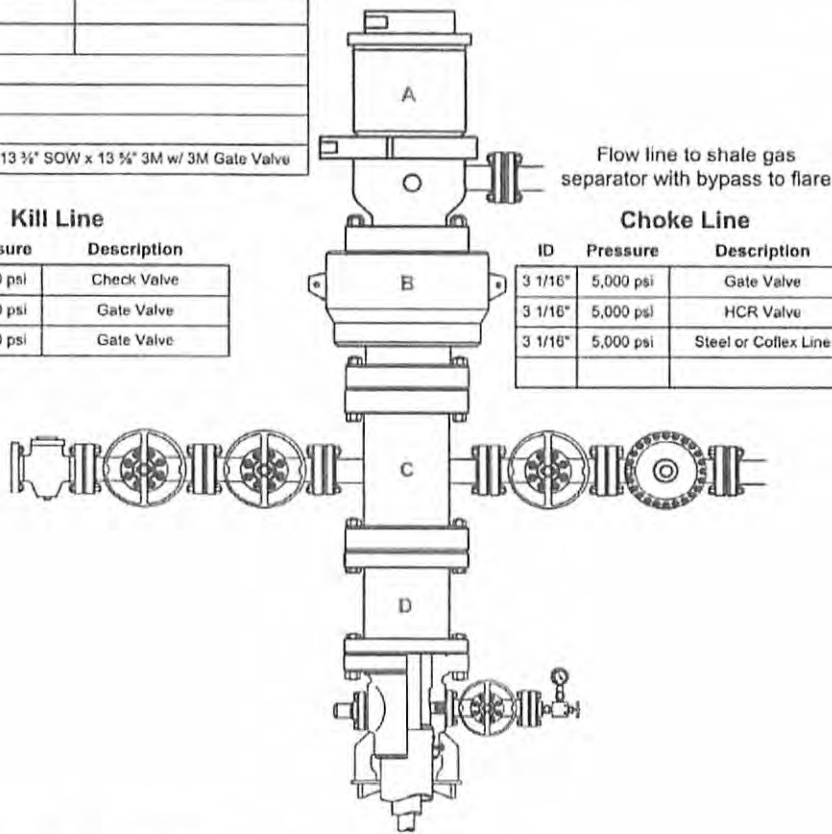
Trip Tank Required: Yes No
 *when drilling on mud

Kill Line

ID	Pressure	Description
2 1/16"	5,000 psi	Check Valve
2 1/16"	5,000 psi	Gate Valve
2 1/16"	5,000 psi	Gate Valve

Choke Line

ID	Pressure	Description
3 1/16"	5,000 psi	Gate Valve
3 1/16"	5,000 psi	HCR Valve
3 1/16"	5,000 psi	Steel or Collex Line



Testing Requirements

Item	Pressure	Frequency
Rotating Head	250 / 500 psi	Once prior to DO shoe
Annular	250 / 1,500 psi	Every 21 Days
Choke Manifold	250 / 1,500 psi	Every 21 Days

- Visual inspection at least once each tour.
- Function test pipe rams once per day while drilling.
- Function test blind rams on trips (not more than once per day)

Approved by	Date
DEM	
VP	
BSC	

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BLOWOUT PREVENTER SCHEMATIC

WELL :
 FIELD :
 RIG :
 COUNTY :
 OPERATION : 17 1/2" Surface Hole

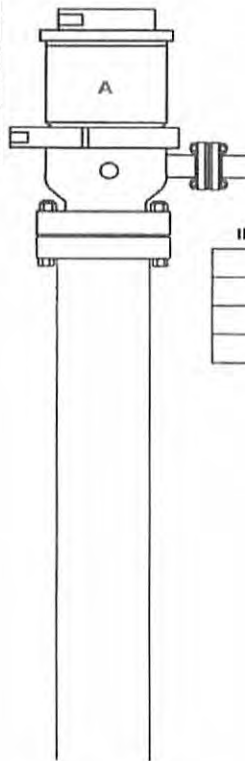
STATE :
 REVISION : : / /

Component Descriptions

	Size	Pressure	Description
A	20"	500 psi	Rotating Head
B			
C			
D			
E			
F			
G			
H			
DSA			
C Sec			
B Sec			
A Sec			

Exception	Reference

Trip Tank Required: Yes No



Flow line to shale gas separator with bypass to flare

Kill Line

ID	Pressure	Description

Choke Line

ID	Pressure	Description

Testing Requirements

Item	Pressure	Frequency
Rotating Head	250 / 500 psi	Once prior to DO shoe

Approved by _____ Date _____
 DEV _____
 VP _____
 B&C _____

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B. Procedure and Testing of BOP Equipment

The following summarizes the BOP testing standard operating procedures:

- Precede all high-pressure tests with a 250-psi low-pressure test.
- BOP Pressure test frequency:
 - At nipple-up;
 - Every 21 days;
 - After changing out any rams;
 - Following any BOP repairs;
 - Prior to drilling out cementing plug in casing strings.
- In addition to the pressure tests outlined above, the following tests will also be conducted:
 - The pipe rams will be function tested and documented at least once per day.
 - A visual inspection of the BOP, surface lines and the accumulator/ closing unit will be conducted and documented every rig tour.
 - The blind rams will be function tested and visually inspected upon every complete trip out of the hole with the drill string.
 - All tests, both visual and function tests will be recorded in the IADC log, they will be noted as to type and time in the daily drilling report and they will be listed under the appropriate well in the BOP Test Log Book kept in the Company Man's trailer.
- ANY BOP NOT PASSING A PRESSURE (HIGH OR LOW), FUNCTION OR VISUAL TEST WILL IMMEDIATELY BE PLACED OUT-OF-SERVICE.

C. List of BOP Trained and Actively Certified Personnel Involved in Drilling Operations and Recording of Significant Drilling Events

There will be a BOP trained person or persons on site during the drilling operations at all times. BOP trained personnel will include Ascent Resources' Company Man who will be present during drilling operations. All daily information from the drilling activities will be included on the "Daily Drilling Report" included as **Exhibit "F"**. The Daily Drilling Report will be available at the well site for inspection by authorized personnel. The Office of Oil and Gas will be notified via telephone immediately following large shows of oil, gas, and/or H₂S that occur during drilling operations. Ascent Resources' company man will be responsible for this notification.

D. Maintaining Records

All records will be maintained in Ascent Resources' WellView data base system. The well site supervisors and/or drilling superintendent will be responsible for ensuring all records are up-to-date. In the case of loss of circulation, hydrogen sulfide gas, fluid entry, abnormal pressure, or any other drilling emergency, the drilling superintendent will notify the Emergency responders and the inspector via cell phone or radio communications as soon as possible if an unusual drilling event occurs.

E. Notification

Ascent Resources will notify the Emergency responders and the inspector via cell phone or radio communications as soon as possible if an unusual drilling event occurs, hydrogen sulfide gas monitors alarm or any large kick that occurred during drilling operations.

F. Wellhead Assembly Schematic

Please see below for the entire wellhead assembly schematic.

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Completion

ASP-EN
7-1/16" 10M x 2-9/16" 5M
w/ 7-1/16" x 2-7/8" 8rd
TC1A-EN,
2-9/16" 5M Run,
2-1/16" 5M Wings

Tubing Head

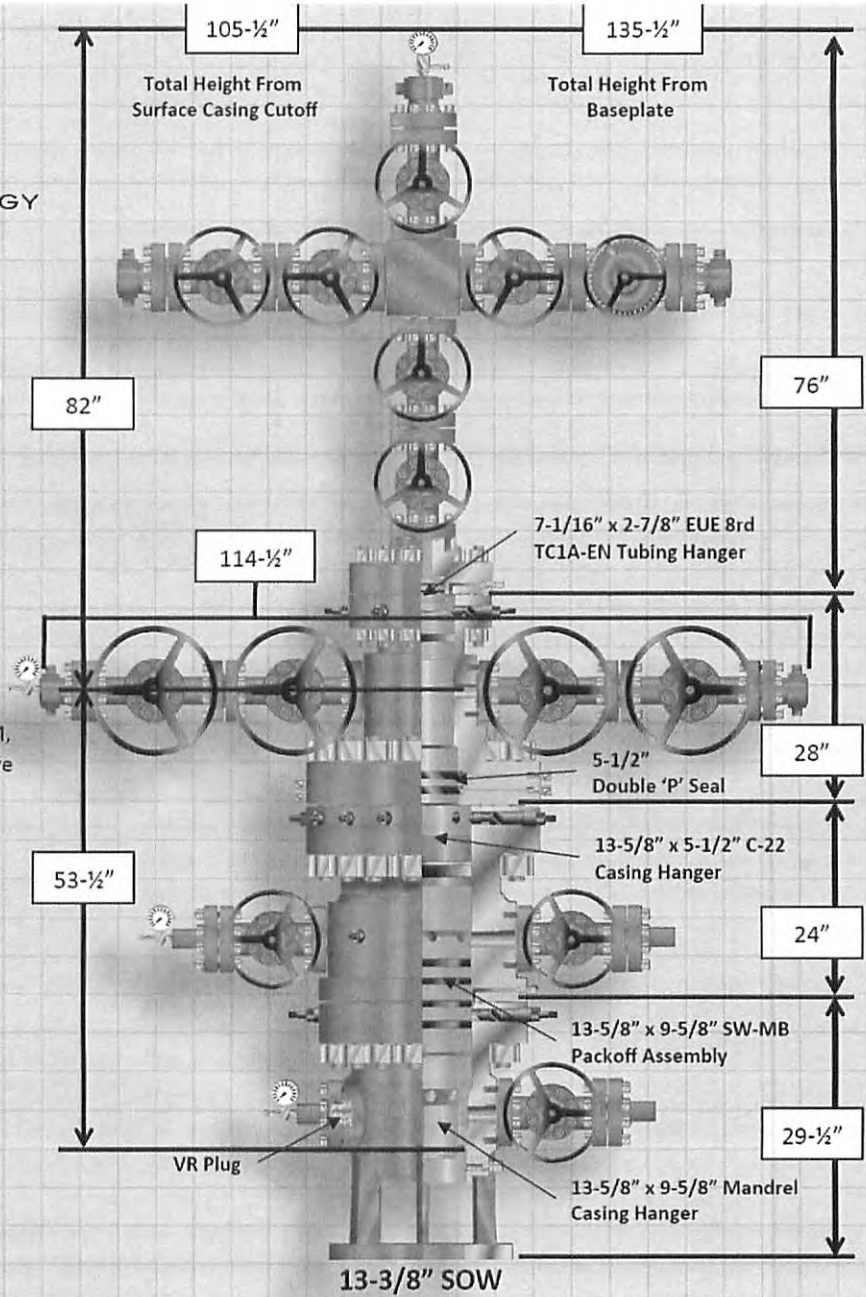
SW-TCM-PP
13-5/8" 10M x 7-1/16" 10M,
(4) 1-13/16" 10M Gate Valve
Assemblies

Casing Spool

Upper MBH
13-5/8" 5M x 13-5/8" 10M
(2) 2-1/16" 5M Gate Valve
Assemblies

Casing Head

Lower MBH, SW-22-BP
13-5/8" 5M x 13-3/8" SOW
w/ 26" Base Plate,
(1) 2-1/16" 5M Gate Valve
Assemblies



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G. Well Killing Operations for Drilling Hazards and Preparations

- Directional / Anti-Collision:
 - Survey / gyro vertical hole as necessary. Anti-collision reports must be run to ensure no inferred issues or problems are present prior to commencing drilling operations
 - A directional plan must be up to date and approved by Drilling Engineer
- Wellbore Stability:
 - Adequate mud weight shall be maintained at all times to help maintain mechanical strength of the rock, wellbore stability, and for well control
- Hole Cleaning:
 - The supervisor will note any problems that occur while drilling (i.e. drag, torque, tight hole, and lost returns) on IADC form and on the Ascent Resources Morning Report.
 - Build and pump sweeps as needed and monitor sweep returns at the shaker, adjusting the sweep frequency and volume accordingly.
 - Replace shaker screens with fine mesh as flow rate and solids loading allow
 - Proper mud properties such as viscosity must be maintained as per the mud program to ensure drill cuttings are being properly transported out of the wellbore.
 - Optimum pump rates/flow rates must be maintained at all times while drilling ahead to ensure drill cuttings are being properly transported out of the wellbore.
 - Run and maintain all solids control equipment available at all times to ensure LGS are being removed from the mud system.
- Differential Sticking:
 - There is not a history of differential sticking in this field to date.
- Lost Returns:
 - There is limited history of lost returns in this field to date; however, Ascent Resources always uses standard drilling and tripping practices to minimize ECD's and surge pressures on the wellbore.
 - If losses occur, the Drilling Superintendent will be immediately notified.
 - The mud company will have on hand approved amount of LCM in the event of fluid losses or a loss of returns
 - Maintain adequate amount of base fluid for building new mud in the event of fluid losses.
- Abnormal Pressure:
 - The entire well is expected to be normally pressured.
 - The field does not have a history of well control situations.
 - If a well control situation occurs, the Drilling Manager, EHS Manager, and the Office of Oil and Gas Inspector will be immediately notified via telephone.
- In the event that a well is required to be "killed", proper well control methods will be employed. Mud weight additives, such as barite, will be on-site and can be added to increase mud weight sufficient enough to "kill" and control the well.

6. Hydrogen Sulfide (H₂S)**A. H₂S Monitoring Equipment Schematic**

Please refer to **Exhibit "G"** illustrating the H₂S monitoring equipment placement.

B. Statement of Personnel Training

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A safety training program shall be given to all personnel who may be required to work in a known or suspected H₂S environment. This training must be given prior to working in an H₂S environment. The following areas must be covered in the program.

- Hazards, properties and characterizes of H₂S and sulfur dioxide (SO₂) gases
- Sources of H₂S and SO₂
- Use of H₂S detection devices
- Description of H₂S and/or SO₂ detection systems used at the workplace
- Symptoms of exposure
- Respiratory protection requirements
- First aid procedures and equipment including location of safety equipment
- Use of the “buddy system”
- Wind direction awareness and routes of egress (exits)
- Confined space and enclosed space entry procedures
- Contingency plans including gauging procedures
- Ascent Resources requirements for H₂S locations. This should include a discussion of safe workplace practices and procedures

All personnel who work in or may be required to work in an H₂S area (employees and contractors) shall complete a refresher course in H₂S safety annually.

All training shall be documented. Contractors shall document and provide verification of such training of their employees upon request.

C. Notification Method and Access Control

A visual and audio alarm system will be utilized on the rig floor to alert all persons on location of the presence of H₂S. Audio alarms will activate on the monitoring equipment in the event H₂S is detected. Visual hand signals and voice commands will be utilized immediately following a meter detection of H₂S.

In the event hazardous concentrations of H₂S gas are encountered while drilling, a responsible person will be positioned at the muster point (lease road entrance) to prevent any and all unauthorized persons from coming on to the drill site. Any residential notification will be made verbally after travelling to each residence. Emergency responders will be notified via cell phone or radio communications.

D. Monitoring/Protection Equipment

The following details precautions and equipment that will be utilized during drilling operations:

Shallow Gas and/or H₂S:

- Use a rotating head to divert shallow gas if encountered.
- If H₂S is encountered, it is mandatory to immediately contact the Drilling Superintendent, EHS Manager, and the Office of Oil and Gas Inspector via telephone.
- There is not a history of H₂S in this field to date.
- A H₂S trained and qualified individual will be on site to setup H₂S monitoring activities

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In addition to the above, portable meters will be placed at the possum belly at the shaker to warn of any potential H₂S encounters. Please refer to **Exhibit "G"** illustrating the H₂S monitoring equipment placement.

E. Personal Protective Equipment

Personal Protection Equipment (PPE) - All employees and contractors are required to wear the appropriate PPE including Fire-Resistant Clothing (FR), Hard Hats, Hearing Protection, Safety Glasses, Steel Toe Boots, and any other PPE equipment as required for operation specific jobs including gloves, respirators, etc.

F. Flaring

Ascent Resources does not intend to flare during drilling operations or following completion activities. In the event well flaring operations (other than tank vapor gas flaring during flowback and production) are warranted, this plan will be modified and the DEP will be notified and updated with the modifications.

G. Collision Avoidance

MDC
8-31-15

A. Anti-Collision General Policy

- All wells whose planned well path has potential collision risk with existing wells will be actively monitored for collision.
- No drilling will occur on pads with actively producing wells within 200'. Refer to SimOps Section in the BMP (Best Management Practice) manual.
- Separation factors (SF) will be planned for and maintained above 2.0 unless specific requirements outlined in the following sections are met.
- If SF falls below 2.0 or magnetic interference occurs on an unplanned basis, drilling will stop until an adequate procedure is in place to mitigate risk.
- SF factors between 2.0 and 1.5 may be permitted if risk can be reduced through sound engineering data and operational practice. Verbal approval from Drilling Manager is required to proceed.
- SF factors between 1.0 and 1.5 will only be permitted under certain scenarios provided full consideration is given to the risks and associated consequences. These must be appropriately mitigated with sound engineering data and operational practices and a written procedure must be approved by the Drilling Manager.
- The Pedal Curve method will be utilized to calculate a Separation Factor (SF) between ellipses
- Survey calculations shall be the Minimum Radius of Curvature method.

B. Survey Requirements

- General Requirements
 - All survey data shall be required to have azimuths pre-corrected to Grid North. The values for convergence and declinations and depth datum details used shall be reported

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on all definitive surveys. Additionally, survey tool accuracy should be specified on all definitive survey reports presented to Ascent Resources.

- All survey plats will be checked for accuracy by the Ascent Resources' Field and Water management group and also by the Ascent Resources' drilling engineer before sending plats to directional company for well planning.
- All directional plans will be checked to verify proper grid correction; the plan must be approved by the drilling engineer before proceeding ahead. Exhibit "H" illustrates the sign-in sheet to ensure verification of the coordinates.
- NAD 27 will be the geodetic reference system unless regulatory requirements dictate otherwise.
- In all wells where MWD surveys are not run, a regularly spaced Gyro Multi-Shot (GMS) survey shall be obtained at a frequency not to exceed 100'.
- While directional drilling, MWD survey frequency shall not exceed 90'. Approval from engineer must be obtained to exceed 90' surveys but will be limited to a maximum of 180' in the lateral portion of the well.
- All definitive surveys will contain the following data:
 - Well Name
 - Rig Floor Elevation
 - Local Coordinates
 - Section Plane
 - Declination Applied
 - Grid Convergence Applied
 - Any other correction applied
 - UTM Model
 - Survey History - Depths and Dates
 - Survey Tool Errors
- Deviation calculations shall be performed by the directional drilling contractor. The directional drilling contractor is responsible for the accurate reporting of all wellbore positioning data. The directional drilling contractor will present the definitive surveys utilizing data from any of Ascent Resources' surveying contractors.
- The quality of the surveys taken shall be checked independently by the directional driller using the surveying contractor's approved survey acceptance criteria.
- The Ascent Resources' representative will check tie-in data before drilling out of each hole section. Projected surveys will never be used to tie-in subsequent surveys.
- Magnetic Survey Requirements
 - The directional drilling contractor will calculate the following before each directional BHA is run:
 - Sufficient non-magnetic spacing is in place at both MWD and MMS positions to deliver < 1 degree azimuth error due to drill string interference.
 - BHA SAG correction for MWD and MMS positions. If SAG corrections is >= 0.1 degree inclination it must be applied.
- Gyro Survey Requirements

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- GMS surveys shall be run in all surface and intermediate casing strings on all pad drilling projects unless an MWD survey was run while drilling to casing point.
- Gyro Single Shot (GSS) shall be used in place of magnetic survey instruments in all cases where magnetic interference from nearby wells is experienced until adequate separation is achieved and magnetic interference is eliminated.
- Gyro Single Shot Surveys shall be taken when drilling surface hole sections whenever magnetic interference is detected.
- Gyro Multi Shot Surveys shall be taken to decrease positional uncertainty prior to drilling critical hole sections (i.e. high pressure sections, critical wellbore proximity hole sections, etc.). In this instance the requirements for the GMS shall be clearly stated in the drilling program.

C. Well Planning Requirements

- Prior to drilling, a preliminary directional plan for all wells on pad will be created and a preliminary closest approach 3D proximity scan will be made to verify adequate planned wellbore separation.
- During collision scans all offset well surveys will be evaluated for accuracy.
- Industry accepted error modeling tools (ISCWSA) will be applied at a minimum of 2.0 sigma confidence.
- NAD 27 will be the geodetic reference system unless regulatory requirements dictate otherwise.
- During the well planning process, the Directional Drilling Contractor shall calculate a Separation Factor for all potential collision risk wells identified in the clearance scan and will be verified by the drilling engineer.
- The Directional Drilling Contractor and Drilling Engineer shall make a reasonable effort to plan the well to maintain S.F. over 2.0.
- All wells planned with a S.F. of less than 2.0 require Drilling Manager approval.
- After completion of location and prior to setting the conductor the land survey company will resurvey the stakes for each surface location and drive a steel stake in the ground identifying each individual well. An as-built will be created and circulated to the Drilling Engineer and Drilling Superintendent identifying each well and the appropriate X and Y locations.
- The Drilling Superintendent will create a bubble plot of location to indicate well location and compare to the As-Built Survey Plat.

D. Well Execution Requirements

- The Drilling Representative shall have overall responsibility for the maintenance of safe operations when drilling in close proximity to other wells. The lead directional driller is responsible for the accurate reporting of the wellbore positioning and projection and calculation of bit position and uncertainty at the bit. Ascent Resources' company representative on site will verify the directional driller's numbers. In any potential approach or crossing of any wellbore (planned or drilled), Ascent Resources' directional specialist will verify all surveys and projections.

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- First wells on pads may be drilled with inclination only surveys at intervals of no greater than 500' provided that no collision risks exist. A GMS must be run prior to picking up directional tools.
- Proper tool alignment and orientation **MUST** be verified by the Lead Directional Driller and the Ascent Resources company representative on site.
- For additional wells on pad, the surface hole section may be surveyed with Magnetic Single Shot (MSS) tools at a frequency no greater than 200', provided that a SF > 2.0 is maintained.
- If the section below surface casing is planned vertical, Magnetic Single Shot tools may be run at an interval no greater than 500' provided a center-center separation distance of 150' is maintained. If the C-C distance decreases below 150', a GMS or MWD survey must be run at an interval no greater than 90'.
- Prior to picking up directional MWD tools, a GMS survey will be run at intervals of no more than 100'.
- All directional plan tie-in points will be verified by the drilling engineer and the directional drilling contractor. If a projection is used for tie-in, this projection will be replaced with a survey once drilling commences.
- Offset well monitoring and reporting will be performed by the directional driller on location, if the Separation Factor falls below a 2.0, Anti-Collision software must be used to verify the SF and Center-Center distance of any potential well approach or collision.
- Suspension of Drilling Operation

The following rules shall apply at all times when the calculated Separation Factor for the drilling well falls below a SF of 2.0 on an unplanned basis:

- When the SF falls below a 2.0 on an unplanned basis, the Drilling Superintendent shall be informed and drilling shall immediately cease.
- A plan of action shall be formulated after considering the following options:
 - ❖ Re-survey the current well with a more accurate survey tool to reduce the radius of uncertainty and increase the projected S.F. to 2.0.
 - ❖ Make a trip to allow use of a steering BHA to alter the well path and increase the projection of S.F. to 2.0 or that specified by the wellplan.
 - ❖ Plug the well and side-track at a depth where the well can be safely re-drilled.
 - ❖ If the Drilling Manager determines adequate risk mitigation procedures are in place, drilling may resume.
 - ❖ If the SF falls below a 1.5, a written procedure identifying risks and mitigation approved by Drilling Manager is required prior to resumption of drilling activity.
 - ❖ If the SF falls below a 1.0, the well will be plugged back and the sections of the well of concern will be sidetracked unless an exception and written procedure is approved by the Drilling Manager.
- Drilling fluid of an appropriate density will be utilized in any portion of the well with SF less than 2.0.

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- For wells planned below a SF of 2.0, adequate risk mitigation and written drilling manager approval must be in place before drilling ahead.

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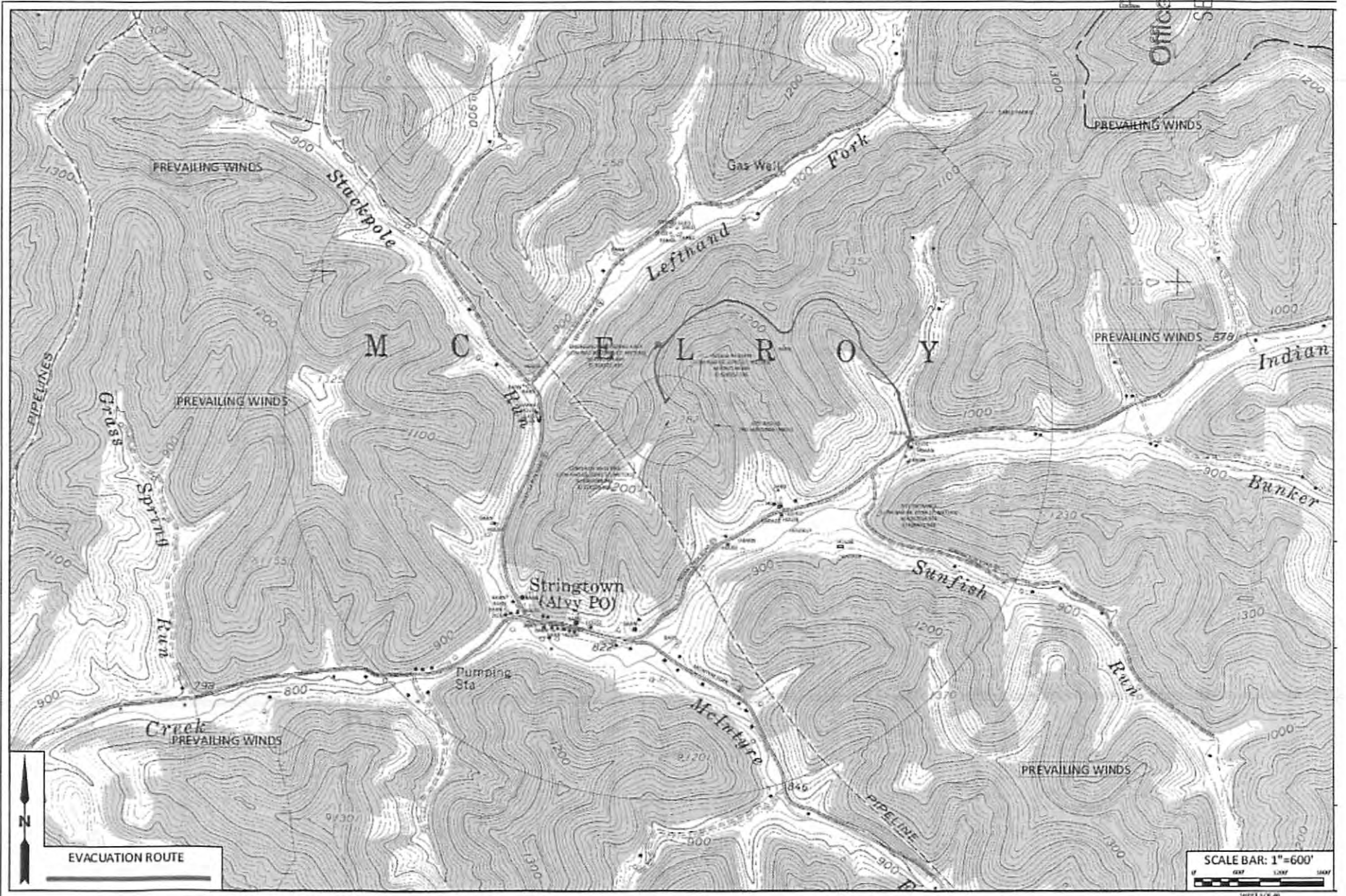
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Exhibit "B"

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PROPERTY ID	PARCEL NO.	OWNER	ADDRESS	CITY/TOWNSHIP	COUNTY
1	00-000	UNITED SERVICES OF AMERICA	1000 W. WASHINGTON ST.	TYLER	WASHTENAW
2	00-000	UNITED SERVICES OF AMERICA	1000 W. WASHINGTON ST.	TYLER	WASHTENAW
3	00-000	UNITED SERVICES OF AMERICA	1000 W. WASHINGTON ST.	TYLER	WASHTENAW
4	00-000	UNITED SERVICES OF AMERICA	1000 W. WASHINGTON ST.	TYLER	WASHTENAW
5	00-000	UNITED SERVICES OF AMERICA	1000 W. WASHINGTON ST.	TYLER	WASHTENAW
6	00-000	UNITED SERVICES OF AMERICA	1000 W. WASHINGTON ST.	TYLER	WASHTENAW
7	00-000	UNITED SERVICES OF AMERICA	1000 W. WASHINGTON ST.	TYLER	WASHTENAW
8	00-000	UNITED SERVICES OF AMERICA	1000 W. WASHINGTON ST.	TYLER	WASHTENAW
9	00-000	UNITED SERVICES OF AMERICA	1000 W. WASHINGTON ST.	TYLER	WASHTENAW
10	00-000	UNITED SERVICES OF AMERICA	1000 W. WASHINGTON ST.	TYLER	WASHTENAW
11	00-000	UNITED SERVICES OF AMERICA	1000 W. WASHINGTON ST.	TYLER	WASHTENAW
12	00-000	UNITED SERVICES OF AMERICA	1000 W. WASHINGTON ST.	TYLER	WASHTENAW
13	00-000	UNITED SERVICES OF AMERICA	1000 W. WASHINGTON ST.	TYLER	WASHTENAW
14	00-000	UNITED SERVICES OF AMERICA	1000 W. WASHINGTON ST.	TYLER	WASHTENAW
15	00-000	UNITED SERVICES OF AMERICA	1000 W. WASHINGTON ST.	TYLER	WASHTENAW
16	00-000	UNITED SERVICES OF AMERICA	1000 W. WASHINGTON ST.	TYLER	WASHTENAW
17	00-000	UNITED SERVICES OF AMERICA	1000 W. WASHINGTON ST.	TYLER	WASHTENAW
18	00-000	UNITED SERVICES OF AMERICA	1000 W. WASHINGTON ST.	TYLER	WASHTENAW
19	00-000	UNITED SERVICES OF AMERICA	1000 W. WASHINGTON ST.	TYLER	WASHTENAW
20	00-000	UNITED SERVICES OF AMERICA	1000 W. WASHINGTON ST.	TYLER	WASHTENAW
21	00-000	UNITED SERVICES OF AMERICA	1000 W. WASHINGTON ST.	TYLER	WASHTENAW
22	00-000	UNITED SERVICES OF AMERICA	1000 W. WASHINGTON ST.	TYLER	WASHTENAW
23	00-000	UNITED SERVICES OF AMERICA	1000 W. WASHINGTON ST.	TYLER	WASHTENAW

Centerline Access Road

Well Pad

Water Well Location WW

AEU Surface Location

AEU Testing Radius (2000')

WVDEP Required Testing Radius (1000')

Tyler Parcels

Streams

100 Year Flood Zones

WV County Lines

USA Topo Maps

Scale: 0 325 650 Feet

Received
 Office of Oil & Gas
 SEP 10 2015

ASCENT
 RESOURCES

WATER SAMPLING FIELD MAP

ceso
 CREATION TO COMPLETION

ISSUE:
 EXHIBIT
 DATE: 06.13.2015
 JOB NO: 751340
 DRAWN: CHD
 SHEET NO:
 1

MDC
8-31-15

09502310

Exhibit "C"

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09502310



Ascent Resources Sign-In Log

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DATE	LOCATION	OPS PHASE	NAME	TITLE	COMPANY	CONTACT NUMBER

09502310

Exhibit "D"

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09502310

Well name	GURRELL N MCY TY 7H			
API #	47-095-XXXX			
	Preliminary			
County	Tyler		Prepared by:	
Township	McElroy		Mark McLochlin	6/24/2015
Section				
Ground Elevation	1280			
Derrick Floor--Est	1300			
USDW				
Lat Long (NAD 27)	Lat	Long		
Surface	39.452870	-80.691195		
KOP				
TP				
Bottom	39.470903	-80.704162		
Pilot Log	Hart A 20	~4 miles NE of the pad		
	Wiley S GRN WZ 12HU	~4 miles N of the pad		
Offset Distance (Est)	390			
Lateral Length (Est)	7,107			
Hard Lines	See plat			
Target Depth KBTVD	7261			
Formation Dip	89.5			
Target Azimuth	150			
Total Depth	est			
Formations	KBTVD Depths	Subsea Est	Poss H2S	Gas
Freshwater	500	800		
Pittsburgh Coal	1100	200		
Saltwater	1563	-263		
Big Injun	2450	-1150		*
Big Injun Base	2650	-1350		
Berea	3000	-1700		*
Gordon	3175	-1875		*
Gordon Base	3250	-1950		
Middlesex	6961	-5661		
Geneseo	7100	-5800		*
Tully	7130	-5830		
Hamilton	7156	-5856		
Marcellus	7226	-5926		*
Purcell	7242	-5942		
Lower Marcellus	7244	-5944		*
Basal Marcellus	7267	-5967		*
Onondaga	7276	-5976		
Oriskany				
TD				
Mud logging	TBD			
Wireline Logging	TBD			

FW value comes from analysis of surface water near the pad. This is 100' deeper than WVDEP FW Map.

SW analysis from P Horner #13 (~3000' SSW of pad) well and correlated back to Emaline Ash #6 well

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SEP 10 2015

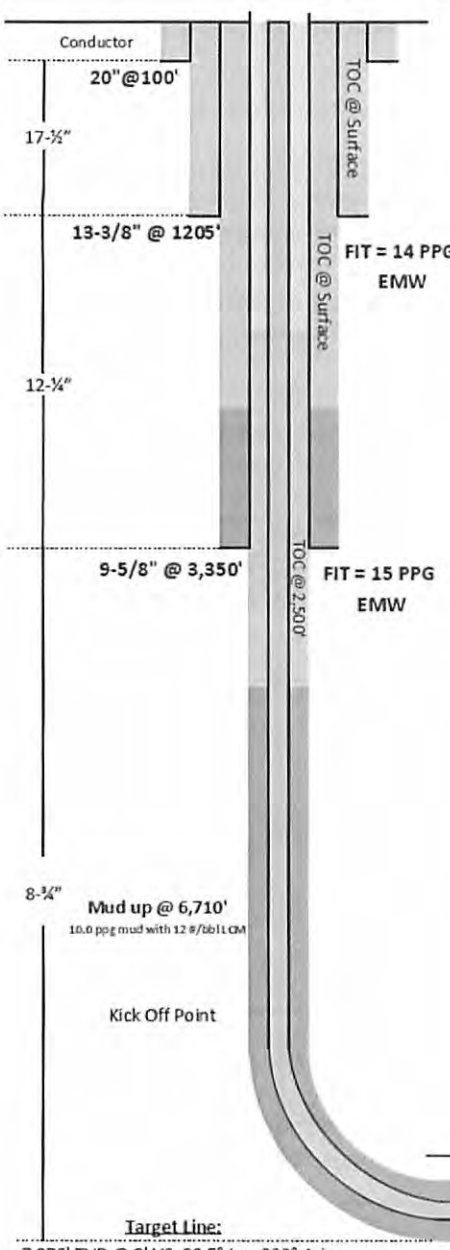
09502310

Exhibit "E"

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Office of Oil & Gas
SEP 10 2015

09502310

 AMERICAN ENERGY APPALACHIA	GURRELL N MCY TY 7H			
	County, State:	Township:	Location:	Formation:
	Tyler, West Virginia	McElroy		Marcellus
	Coordinates:	SHL Lat/Long: 39.452870 N, 80.691195 W		RKB / Elevation:
	NAD 27	BBL Lat/Long:		AFE DC/CWC:
Rig:	Target Line: 7,276' TVD @ 0° VS, 90.5 Inc, 330 Azi		500'	Property #:
				AFE #:



Interval	Hole size (in)	Size (in)	Weight #/ft	Grade	Conn.	Collapse (PSI)	Burst (PSI)	Depth (ft)	Cost \$/ft
Conductor	26"	20"	-	-	-	-	-	100	-
Surface	17-1/2"	13-3/8"	54.5	J-55	BTC	1,130	2,740	1,250	36
Intermediate	12-1/4"	9-5/8"	36	J-55	LTC	2,020	3,520	3,350	22
Production	8-3/4"	5-1/2"	20	P-110	ULT-DQX	11,110	12,640	10,900	22

Interval	Slurry	Weight	Ft ³	Yield	Excess	Cement Top
Conductor	Tall	15.6 ppg	330	1.20 cuft/sk	50%	Surface
	Lead	15.6 ppg	330	1.20 cuft/sk	50%	Surface
Surface	Tall	15.6 ppg	320	1.20 cuft/sk	50%	Surface
	Lead	15.6 ppg	320	1.20 cuft/sk	50%	Surface
Intermediate	Tall	13.3 ppg	250	1.51 cuft/sk	30%	700
	Lead	13.3 ppg	250	1.51 cuft/sk	30%	700
Production	Tall	13.3 ppg	630	1.51 cuft/sk	10%	2500
	Lead	13.3 ppg	630	1.51 cuft/sk	10%	6300

Formation	TVD	Sub Sea
Freshwater	500	780'
Pittsburgh Coal	1100	180'
Saltwater	1563	-283'
Big Injun	2450	-1,170'
Big Injun Base	2650	-1,370'
Berea	3000	-1,720'
Gordon	3175	-1,895'
Gordon Base	3250	-1,970'
Middlesex	6961	-5,681'
Geneseo	7100	-5,820'
Tully	7130	-5,850'
Hamilton	7156	-5,876'
Marcellus	77226	-75,946'
Purcell	7242	-5,962'
Lower Marcellus	7244	-5,964'
Basal Marcellus	7267	-5,987'
Onondaga	7276	-5,996'
Oriskany		

AIR INTERVALS					SYNTHETIC OIL BASED MUD INTERVAL									
Interval	Depth (MD)	Rate (lbfm)	Water (bb/hr)	Foamer (gal/hr)	Interval	Depth (MD)	Weight (lb/gal)	Viscosity (sec/qt)	HTHP (mi/30min)	PV (cps)	YP (lb/100 ft ²)	6 RPM	WPS (ppm)	OWR (% by vol)
Surface	0' - 1250'	>5000	30-50	1/2 - 3/4	Curve	6,710' - 7,610'	10.5 - 13.5	50 - 60	4 - 6	18 - 24	10 - 12	6-9	180x	70-90
Intermediate	1250' - 3350'	>5000	30-50	1/2 - 3/4	Lateral	7,610' - 10,900'	13.5 - 13.7	50 - 60	4 - 6	18 - 24	10 - 12	6-9	180x	70-90
Vert/Nudge	3,350' - 6,710'	>5000	40-80	3/4 - 1										

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Exhibit "F"

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SEP 10 2015

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Daily Drilling Report

WELL NO.

Report Date
Report #
Projected Days
Drilling Days
Current Depth
Depth Progress
Planned VS
Current VS
AFE #
Total AFE

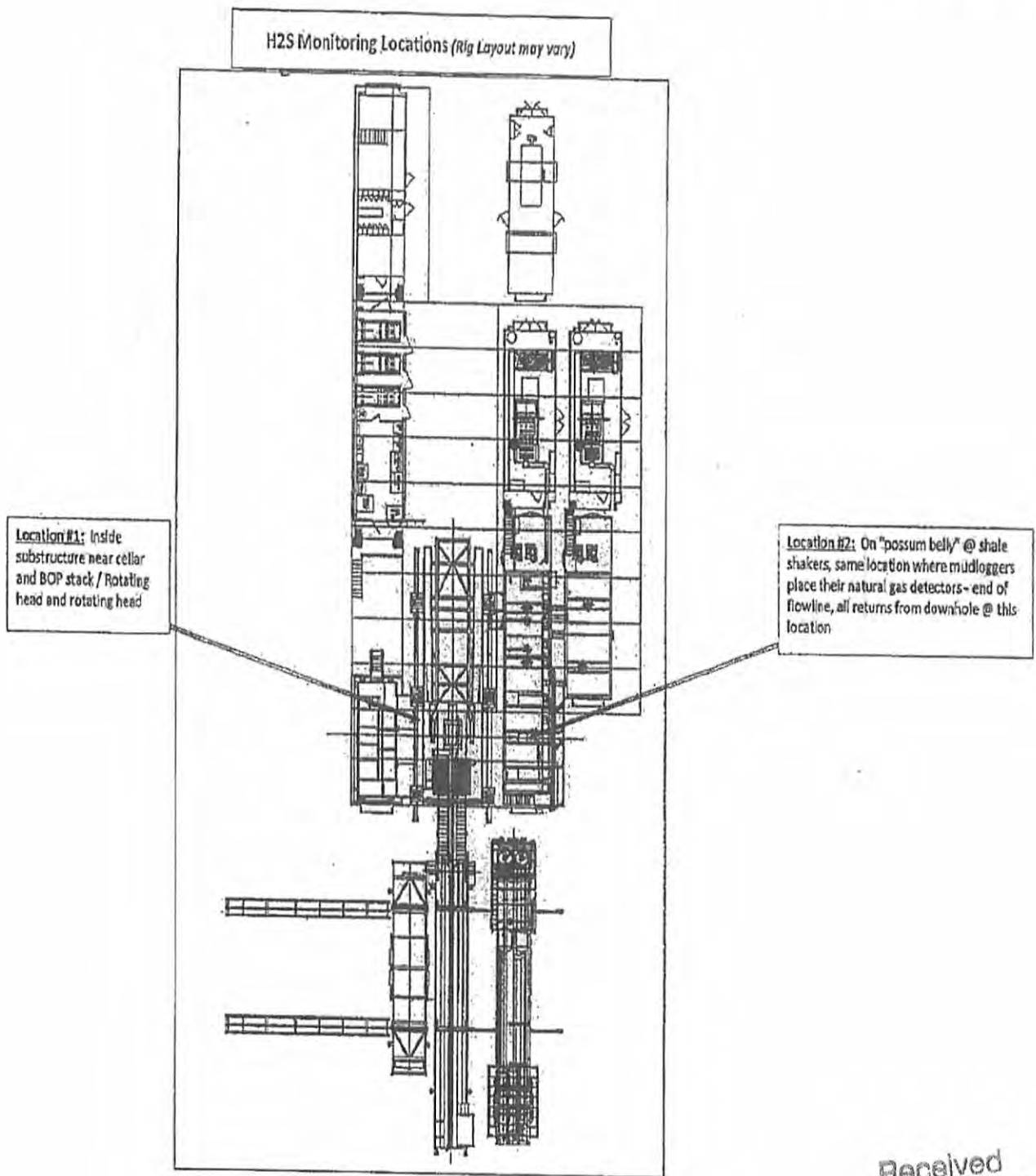
API		Surface Legal Location		Latitude	Longitude	Orig NE E	RAE (ft)	County	State					
Report Summary														
Well Spud	TD Date	RR Date	Target Formation	Prog TD (ft)	Target Line	Drilling AFE	Daily Field Est (Cost)	Cum Field Est (Cost)						
Status at Report Time														
Operations Summary					Planned Operations									
Start MO (ft)	End MO (ft)	Depth Progress (ft)	Drilling Time (hr)	Avg ROP (ft/hr)	Time Since LT (days)	Time Since R (days)								
Contacts														
Daily Time Log														
Start Time	End Time	Dur (hr)	Start Depth (ft)	End Depth (ft)	Comments	Hour Section	Interval	Category	Activity					
Drilling Parameters														
Start Depth (ft)	End Depth (ft)	Rot Time (hr)	Slide Time (hr)	BT ROP (ft/hr)	TFO (')	dP (SPP) (psi)	WOB (1000lb)	Q Rate (gpm/ft)	SPP (psi)	RPM (rpm)	Fu Dr Wt (1000lb)	OO Dr Wt (1000lb)	Drill To	
Bit Information														
Size (in)	Make	Model	Type	Dur Out	Depth In (ft)	Depth Out (ft)	Depth Drilled This Job (ft)	Job Drills (hr)	Avg ROP (ft/hr)	Rot Time (hr)	Slide Time (hr)	Rot ROP (ft/hr)	WOB Max (1000lb)	Max RPM (rpm)
Current BHA Components														
BHA No	Item Description			Make	Model	OD (in)	Wt	Length (ft)	Top Thread					
Mud Motor Details														
BHA	Item Description	OD (in)	Length (ft)	Make	Model	Serial Number	Tq Max (ft-lb)	Start Hrs (hr)	End Hrs (hr)					
Degree Bend		Bit to Bend (ft)			RFD									
BDPE Testing														
Type	Last Date			Next Check Date			Days Until Next Check (days)							
Leak Off and Formation Integrity Tests														
Test Type	Test Date	Depth (ft)	Fluid Type	Fluid Dens (lb/gal)	St. Press (psi)	MAVE (lb/gal)	Comment							
Wellbore Design														
Casing Description		Run Date	OD (in)	Wt (lb/ft)	Grade	Conn	Set Depth (ft)	Length (ft)						
Survey Data														
MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VD (ft)	ND (ft)	BN (ft)	OLE (1/100ft)	BUR (1/100ft)						
Mud Logging Information														
Lithology and Shales			Max Trp Gas (units)			Avg Dril Gas (units)		Max Dril Gas (units)						
Geological Data														
Formation Name				Prog Top TVD (ft)	Dril Top MD (ft)	Dril Top (TVD) (ft)								
EH&S Report														
24 Hour Summary														
Type	Time	Description			Comments									
Job Supplies														
Supply Item Description	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed	Cum Field Est (Cost)							

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SEP 10 2015

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Exhibit "G"

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Exhibit "H"

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SEP 10 2015

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Ascent Resources – Marcellus, LLC

Survey Verification

This form is to provide verification on multiple levels of well plats and azimuthal directional plans and slide adjustments when in critical areas. All survey plats will be checked for accuracy by Ascent Resources – Marcellus LLC’s Field and Water Management team. Plats will then be reviewed by Ascent Resources drilling engineer before plats are released to directional drilling contractor for well planning. All directional plans will be reviewed and approved by Ascent Resources’ drilling engineer before the commencement of drilling operations.

Visual Inspection by Field and Water Management _____

Date: _____

Directional Driller: _____

Azimuthal direction to slide _____

Date: _____

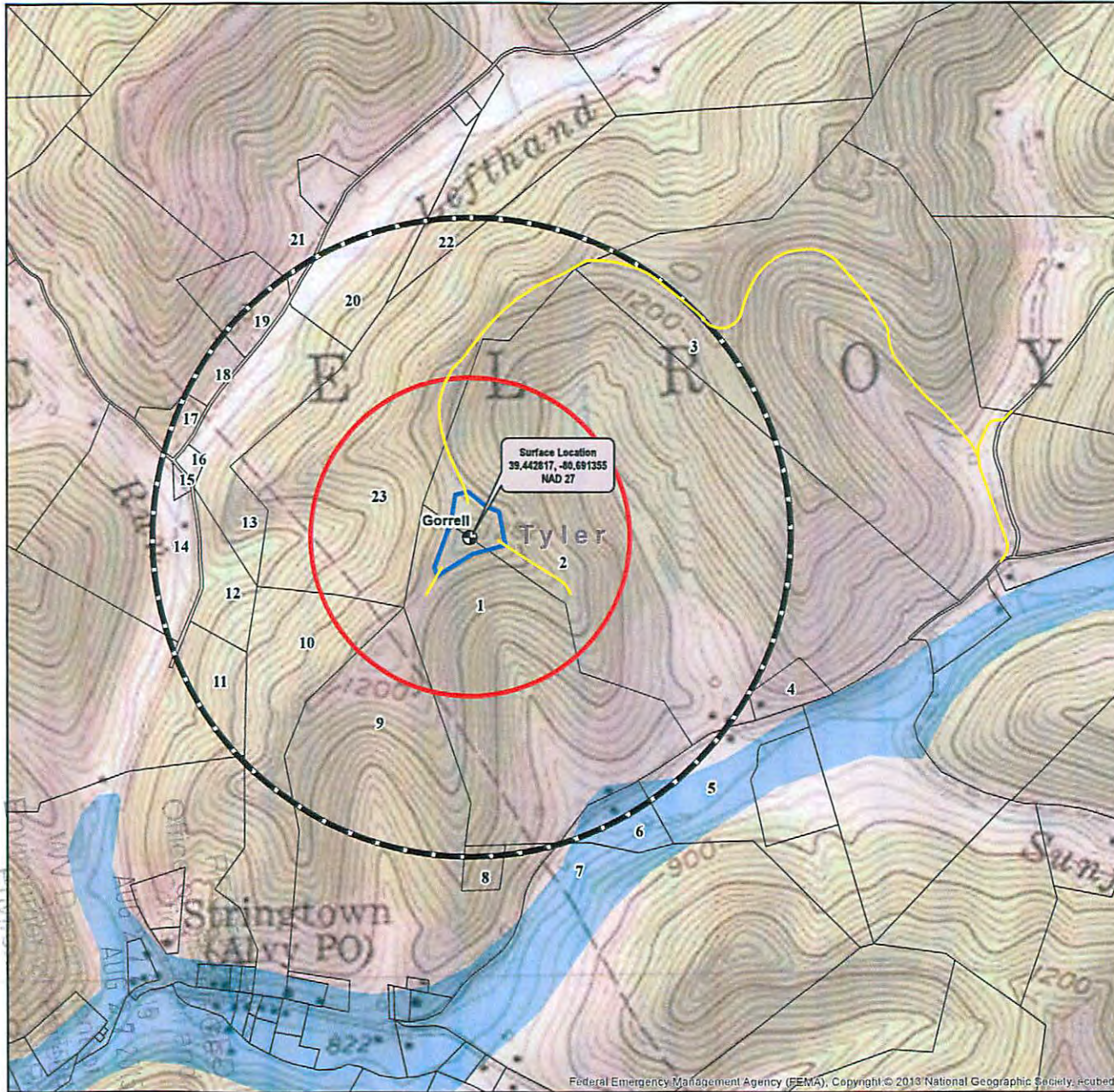
MWD Employee: _____

Date: _____

Company Man: _____

Date: _____

Received
Office of Oil & Gas
SEP 10 2015



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PROPERTY DATA				
PROPERTY ID	PARCEL NO.	OWNER	OWNER ADDRESS	CONTACT NUMBER
1	05-13-4	DAVIS RAYMOND W JR & NORMA S	ROUTE 13 JACKSONBURG, WV	
2	05-8-33	JONES JOHN W & JO ANN	ROUTE 13 JACKSONBURG, WV	
3	05-8-36	HAYES BETTY JEAN	ROUTE 13 INDIAN CREEK JACKSONBURG, WV	
4	05-13-8	JONES JIM	ROUTE 13 JACKSONBURG, WV	
5	05-13-7	PILLY TROY DERE	INDIAN CR JACKSONBURG, WV	
6	05-13-5	GLONER FRED L & DOTTE	ROUTE 13 JACKSONBURG, WV	
7	05-13-6	GLONER STEPHEN PAUL	INDIAN CR JACKSONBURG, WV	
8	05-13-60	CENTREY MONTY DERE	INDIAN CR JACKSONBURG, WV	
9	05-13-2	WARRINGTON GAIL S & JOHN HENRY	INDIAN CR JACKSONBURG, WV	
10	05-13-2	WALTERS JERRY	ROUTE 13 JACKSONBURG, WV	
11	05-13-2	WAGSWORTH KAREN & TERRY ET AL	ROUTE 13 JACKSONBURG, WV	
12	05-8-43	WHARTON DORELL	3 ROUTE 13 OVER JACKSONBURG, WV	
13	05-8-33	WALTERS JERRY L	3 ROUTE 13 OVER JACKSONBURG, WV	
14	05-8-43	WHARTON DORELL	3 ROUTE 13 OVER JACKSONBURG, WV	
15	05-8-43.1	BAKER CARL & CLAUDIA	3 ROUTE 13 OVER JACKSONBURG, WV	
16	05-8-44	WHARTON DORELL	3 ROUTE 13 OVER JACKSONBURG, WV	
17	05-8-32.1	FRANKS TRACY & SHIRLEY E	3 ROUTE 13 OVER JACKSONBURG, WV	
18	05-8-32	WALTERS CARL E	3 ROUTE 13 OVER JACKSONBURG, WV	
19	05-8-33	WALTERS JERRY L	3 ROUTE 13 OVER JACKSONBURG, WV	
20	05-8-21	WALTERS JERRY L	3 ROUTE 13 OVER JACKSONBURG, WV	
21	05-8-22	WALTERS JERRY L	3 ROUTE 13 OVER JACKSONBURG, WV	
22	05-8-8	NEED SHARON L	3 ROUTE 13 OVER JACKSONBURG, WV	
23	05-8-34	ACTION CAROL ANN	LEFT HAND FE JACKSONBURG, WV	



- Centerline Access Road
- Well Pad
- Water Well Location WW
- ⊕ AEU Surface Location
- AEU Testing Radius (2000')
- WVDEP Required Testing Radius (1000')
- Tyler Parcels
- Streams
- 100 Year Flood Zones
- WV County Lines
- USA Topo Maps

09502810



REVISION	DESCRIPTION
1	ACCESS-DRAWING



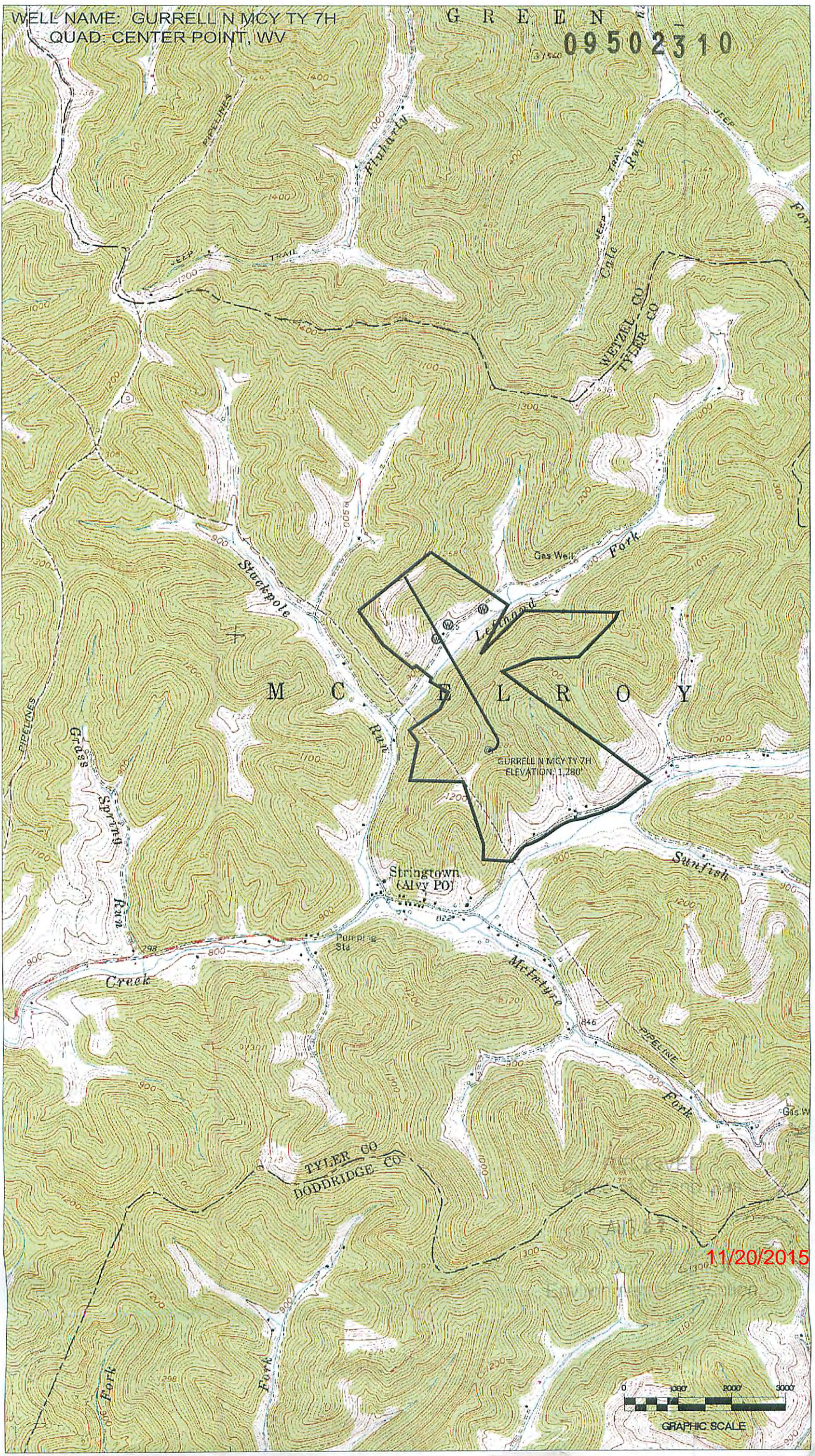
WATER SAMPLING FIELD MAP
GORRELL WELL PAD
TYLER COUNTY, WV

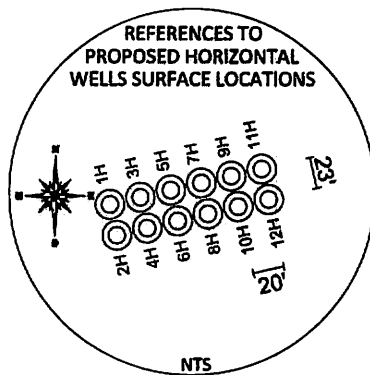
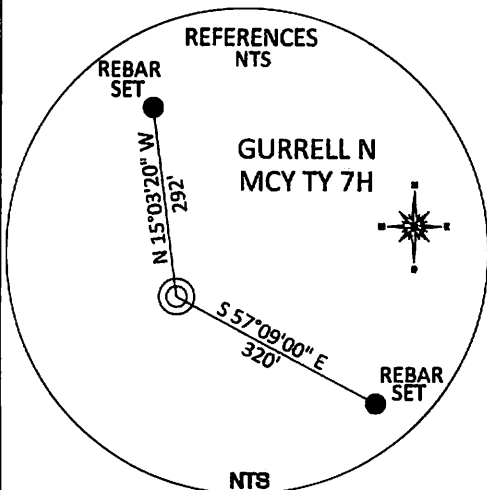


ISSUE:
EXHIBIT
DATE: 06.15.2015
JOB NO.: 751540
DRAWN: CHD
SHEET NO.
1

WELL NAME: GURRELL N MCY TY 7H
QUAD: CENTER POINT, WV

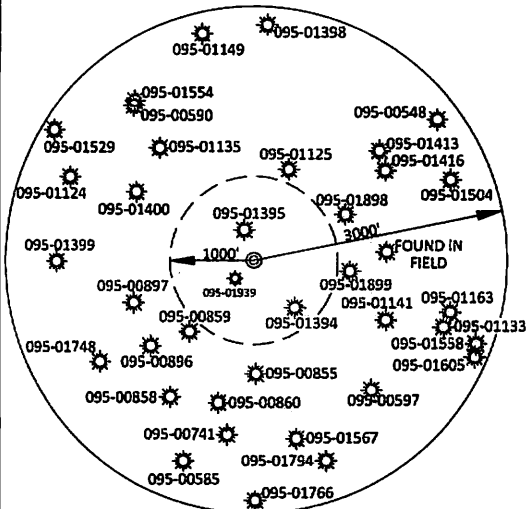
GREEN
09502310





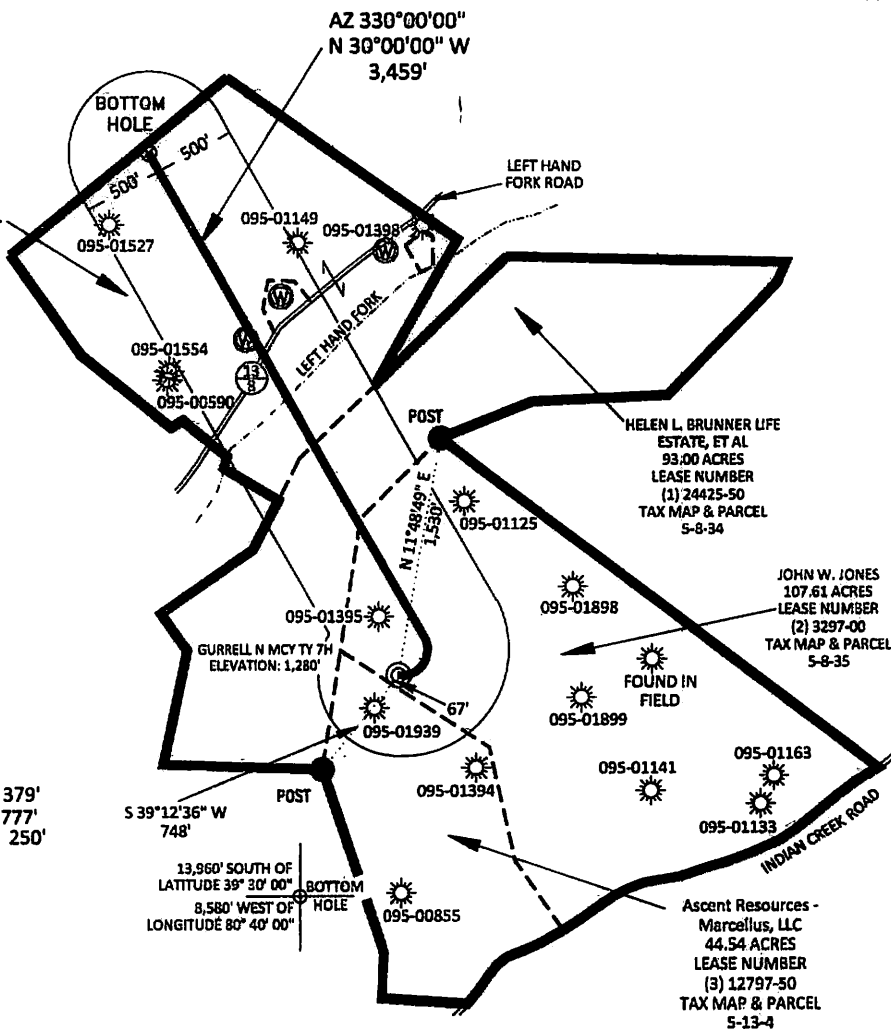
TOP HOLE (UTM NAD 83) N) 4367088.6 E) 526568.7
BOTTOM HOLE (UTM NAD 83) N) 4368061.3 E) 526076.4

JERRY L. WALTERS
 85.86 ACRES
 LEASE NUMBER
 (4) 12846-50
 TAX MAP & PARCEL
 5-8-21



7H to 095-01395 N 18°39'41" W 379'
 7H to 095-01394 S 42°20'57" E 777'
 7H to 095-01939 S 36°47'22" W 250'

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 Tyler County, West Virginia JANUARY 2015
 State Plane Coordinates & NAD 83 Lat/Lang by differential submeter mapping grade GPS
 Drafted by: E.A.M.



FILE #: AE004

DRAWING #: 2553
 SCALE: PLAT - 1" = 1200'
 TICK MARK - 1" = 2000'

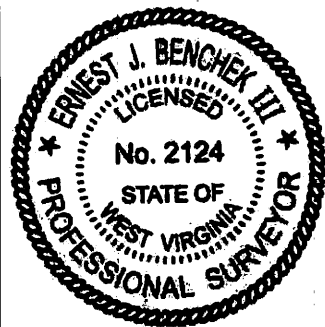
MINIMUM DEGREE OF ACCURACY: 1/200

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: *[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

STATE OF WV PUBLIC LD
 CORP. DEPT. OF COMM. LBR. & ENVIR. DNR

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

WATERSHED: OUTLET MIDDLE ISLAND CREEK

COUNTY/DISTRICT: TYLER / MCELROY

SURFACE OWNER: JOHN W. JONES

OIL & GAS ROYALTY OWNER: Ascent Resources - Marcellus, LLC

LEASE NUMBERS:

DATE: JULY 14, 2015

OPERATOR'S WELL #: GURRELL N MCY TY 7H

API WELL #: 47
 STATE COUNTY PERMIT 95 02310H0A

ELEVATION: 1,280' = Current
 1,243.8' = Proposed

QUADRANGLE: WV CENTER POINT NW 1 of 4

ACREAGE: 107.61
 11/20/2015

ACREAGE: 331.01 +/-

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: 7,261' TMD: 11,200'

WELL OPERATOR: Ascent Resources - Marcellus, LLC

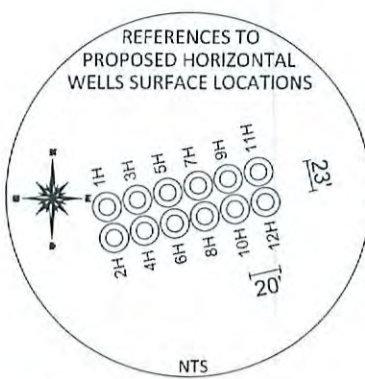
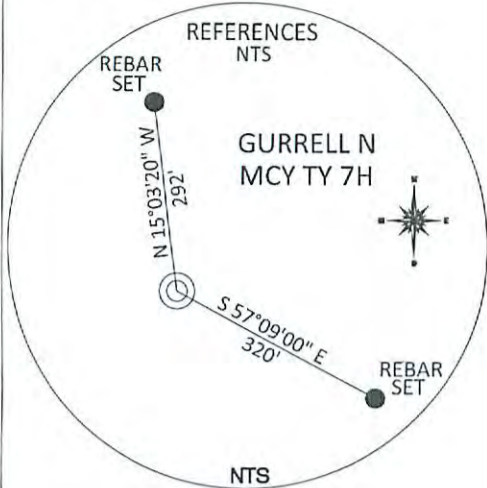
DESIGNATED AGENT: Eric B. Gillespie

ADDRESS: 3501 NW 63rd Street

ADDRESS: 100 Star Ave Suite 120

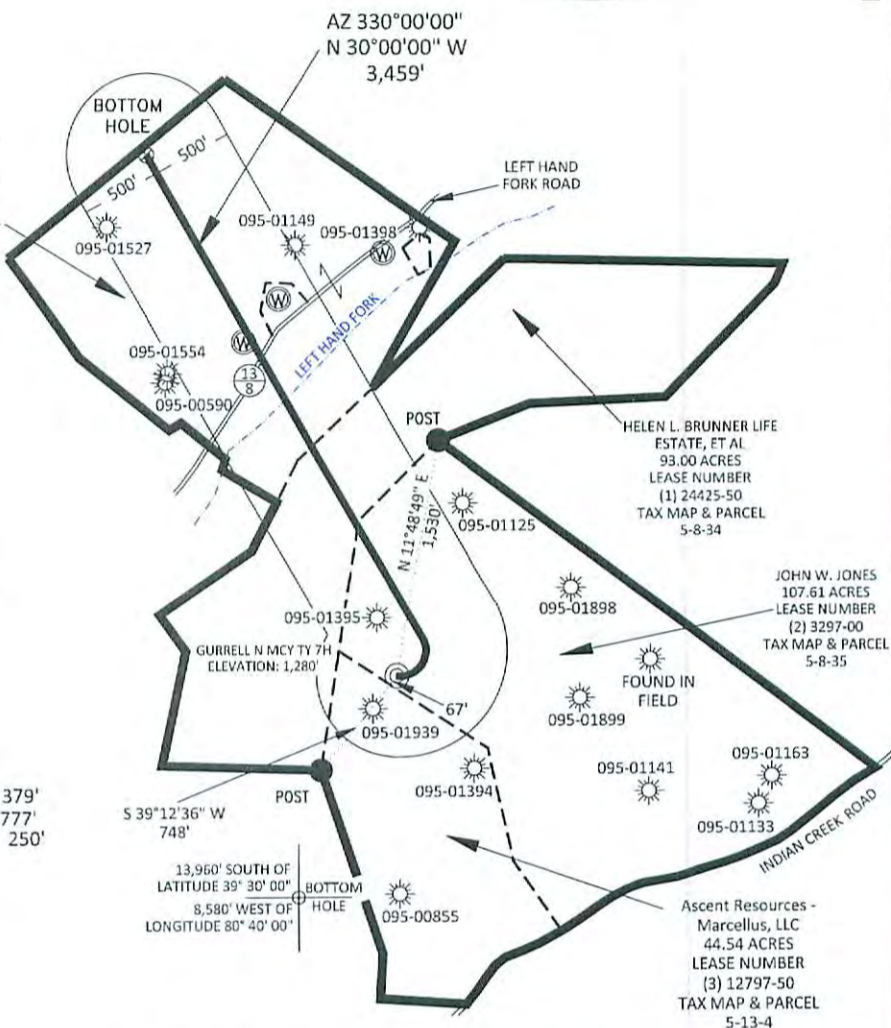
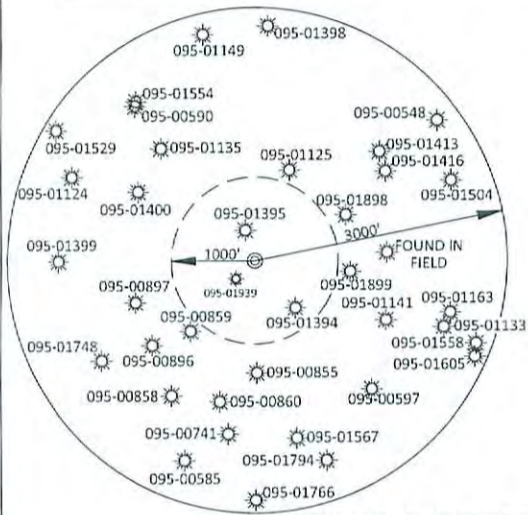
CITY: Oklahoma City STATE: OK ZIP CODE: 73116

CITY: Parkersburg STATE: WV ZIP CODE: 26101



TOP HOLE (UTM NAD 83)
N) 4367088.6
E) 526568.7
BOTTOM HOLE (UTM NAD 83)
N) 4368061.3
E) 526076.4

JERRY L. WALTERS
85.86 ACRES
LEASE NUMBER
(4) 12846-50
TAX MAP & PARCEL
5-8-21



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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 Tyler County, West Virginia JANUARY 2015
State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS
Drafted by: E.A.M.

7H to 095-01395 N 18°39'41" W 379'
7H to 095-01394 S 42°20'57" E 777'
7H to 095-01939 S 36°47'22" W 250'

FILE #: AE004
DRAWING #: 2553
SCALE: PLAT - 1" = 1200'
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: *[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
STATE OF WV PUBLIC LD
CORP. DEPT. OF COMM. LBR. & ENVIR. DNR

DATE: JULY 14, 2015
OPERATOR'S WELL #: GURRELL N MCY TY 7H
API WELL #: 47
STATE COUNTY PERMIT: WV DEW 02310
ELEVATION: 1,243.8' = Proposed
QUADRANGLE: CENTER POINT, WV
ACREAGE: 107.61 +/-
ACREAGE: 331.01 +/-

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

WATERSHED: OUTLET MIDDLE ISLAND CREEK
COUNTY/DISTRICT: TYLER / MCELROY
SURFACE OWNER: JOHN W. JONES
OIL & GAS ROYALTY OWNER: Ascent Resources - Marcellus, LLC
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: 7,261' TMD: 11,200'
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

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
----------------------	-----------------------	-----------------------	---------	-----------

Please see attached.

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Ascent Resources - Marcellus
 By: [Signature]
 Its: Regulatory Technician

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**WV Department of
 Environmental Protection**
 Page 1 of 2

09502310

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE

Chapter 22, Article 6A, Section 5(a)(5)

IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that-

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Ascent Resources - Marcellus, LLC is the record title owner of the leases identified herein. Listed below each lease is the applicable chain of title by which Ascent Resources - Marcellus, LLC was vested with title thereto. Please note, throughout the chain of title, various mergers and name changes occurred between the referenced companies. In several instances, no documentation was filed in the county records evidencing such a merger or name change. In those cases, we've directed your attention to the records of the West Virginia Secretary of State, where said documentation can be found.

Tract	Parcel No.	Fee/Lease No.	Lessor/Assignor	Lessee/Assignee	Royalty/Instrument	Book/Page
1	5-8-34	90813-00 TR1	Edward A Flahive, Executor of the Estate of Edith W McIntyre	Pennzoil Products Company	Deed	288/364
			Pennzoil Products Company	Pennzoil Exploration and Production Company	Assignment	325/178
			Pennzoil Exploration and Production Company	PennzEnergy Exploration and Production Company, LLC	Certificate of Merger	8/516
			PennzEnergy Exploration and Production Company, LLC	Devon Energy Production Company, LP	Certificate of Merger	8/576
			Devon Energy Production Company, LP	East Resources, Inc	Assignment	332/146
			East Resources, Inc.	HG Energy, LLC	Deed	379/410
			East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	153A/238
			American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Cert. of Name Change	WV Sec. of State records
			2	5-8-35	3297-00	Emeline Gorrell
South Penn Oil Company	South Penn Natural Gas	Deed				114/1
South Penn Natural Gas	South Penn Oil Company	Deed				137/216
South Penn Natural Gas	South Penn Oil Company	Deed				151/516
South Penn Oil Company	The Pennzoil Company	Cert. of Name Change				WV Sec. of State records
Pennzoil Company	Pennzoil United, Inc	Assignment				178/221
Pennzoil United, Inc.	Pennzoil Company	Cert. of Name Change				219/171
Pennzoil Company	Pennzoil Products Company	Assignment				265/258
Pennzoil Company	Pennzoil Products Company	Assignment				269/417
Pennzoil Products Company	Pennzoil Exploration and Production Company	Assignment				325/178
Pennzoil Exploration and Production Company	PennzEnergy Exploration and Production Company, LLC	Certificate of Merger				8/516
PennzEnergy Exploration and Production Company, LLC	Devon Energy Production Company, LP	Certificate of Merger				8/576
Devon Energy Production Company, LP	East Resources, Inc	Assignment				332/146
East Resources, Inc.	HG Energy, LLC	Deed				379/410
East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment				153A/238
American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Cert. of Name Change	WV Sec. of State records			
3	5-13-4	12797-50	WE Ash and Emmaline Ash, his wife	South Penn Oil Co.	1/8	22/634
			South Penn Oil Company	The Pennzoil Company	Cert. of Name Change	WV Sec. of State records
			Pennzoil Company	Pennzoil United, Inc	Assignment	178/221
			Pennzoil United, Inc.	Pennzoil Company	Cert. of Name Change	219/171
			Pennzoil Company	Pennzoil Products Company	Assignment	265/258
			Pennzoil Company	Pennzoil Products Company	Assignment	269/417
			Pennzoil Products Company	Pennzoil Exploration and Production Company	Assignment	325/178
			Pennzoil Exploration and Production Company	PennzEnergy Exploration and Production Company, LLC	Certificate of Merger	8/516
			PennzEnergy Exploration and Production Company, LLC	Devon Energy Production Company, LP	Certificate of Merger	8/576
			Devon Energy Production Company, LP	East Resources, Inc	Assignment	332/146
			East Resources, Inc.	HG Energy, LLC	Deed	379/410
			East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	153A/238
			American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Cert. of Name Change	WV Sec. of State records
			4	5-8-21	2171-00	Eric Lemasters
East Resources, Inc.	HG Energy, LLC	Deed				379/410
East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment				153A/238
American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Cert. of Name Change				WV Sec. of State records

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09502310

July 23, 2015

West Virginia Department of Environmental Protection
Chief, Office of Oil & Gas
Attn: Mr. James Martin
601 57th Street
Charleston, West Virginia 25304

Re: Application for a Permit to Drill
Gurrell N MCY TY 7H

Dear Mr. Martin,

Ascent Resources – Marcellus, LLC has the right to drill, extract and produce the minerals from any roads crossed by the proposed laterals for the Gurrell N MCY TY 7H well by virtue of the lease identified on page WW-6A1 of the accompanying permit application.

No action on your part is required. If you have any questions or concerns, please feel free to contact me.

Best Regards,

A handwritten signature in blue ink, appearing to read 'Ariel Bravo', with a long horizontal flourish extending to the right.

Ariel Bravo
Regulatory Technician
ariel.bravo@aep-lp.com
Cell 405-403-4803
Office 405-607-5529

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WV Department of
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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE CERTIFICATION

09502310

Date of Notice Certification: 07/22/2015

API No. 47- _____
Operator's Well No. Gurrell N MCY TY 7H
Well Pad Name: Gurrell MCY TY

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: _____
County: <u>Tyler</u>		Northing: _____
District: <u>McElroy</u>	Public Road Access: _____	
Quadrangle: <u>Center Point</u>	Generally used farm name: _____	
Watershed: <u>Outlet Middle Island Creek</u>		

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 40px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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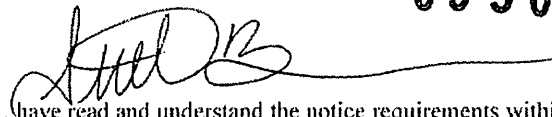
Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit or personal service, the return receipt card or other postal receipt for certified mailing.

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Environmental Protection
11/20/2015

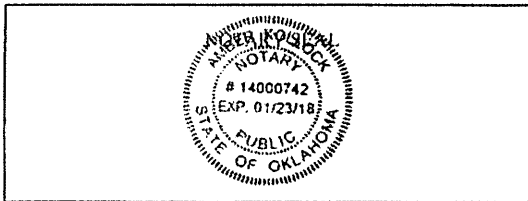
09502310

Certification of Notice is hereby given:



THEREFORE, I Ariel Bravo have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, 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 and imprisonment.

Well Operator:	<u>Ascent Resources - Marcellus, LLC</u>	Address:	<u>3501 NW 63rd, Suite 600</u>
By:	<u>Ariel Bravo</u>		<u>Oklahoma City, OK 73113</u>
Its:	<u>Regulatory Technician</u>	Facsimile:	<u>405-607-5868</u>
Telephone:	<u>405-607-5529</u>	Email:	<u>ariel.bravo@ascentresources.com</u>



Subscribed and sworn before me this 22 day of July, 2015

[Signature] 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 telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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Environmental Protection

11/20/2015

WW-6A
(9-13)

API NO: 09502310
OPERATOR WELL NO. Gurrell N MCY TY 7H
Well Pad Name: Gurrell MCY TY

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION**

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 10/07/2015 **Date Permit Application Filed:** 10/09/2015

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)

Name: Raymond & Norma Davis
Address: 410 Maple Ave. Apt 4
New Martinville, WV 26155

Name: John Jones
Address: 720 James Street
New Martinville, WV 26155

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: Ascent Resources - Marcellus, LLC
Address: PO Box 13678
Oklahoma City, OK 73113

COAL OPERATOR

Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: Please see attached.
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary **OCT 16 2015**

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WV Department of Environmental Protection
11/20/2015

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding that the restrictions on the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

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examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

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Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

11/20/2015

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

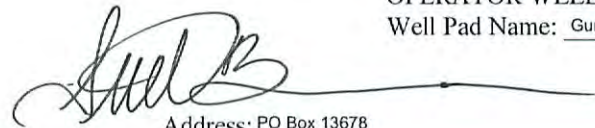
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Office of Oil and Gas

OCT 16 2015

WV Department of
Environmental Protection

WW-6A
(8-13)

APIN 047
09502310
OPERATOR WELL NO. Gurrell N MCY TY 7H
Well Pad Name: Gurrell MCY TY



Notice is hereby given by:

Well Operator: Ascent Resources - Marcellus, LLC
Telephone: 405-607-5454
Email: ariel.bravo@ascentresources.com

Address: PO Box 13678
Oklahoma City, OK 73113
Facsimile: 405-607-5868

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.



Subscribed and sworn before me this 6 day of Oct, 2015.



Notary Public

My Commission Expires 01/23/2015

Ascent Resources - Marcellus, LLC
 Certified Mail Receipts
 Gurrell N MCY TY 7H
 WW-6A Notice of Application
 Notice to Surface Owners

09502310

7015 0640 0003 9323 5921

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee	
\$	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$ _____
<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____
Postage	
\$	
Total Postage and Fees	
\$	
Sent To John W. Jones	
720 James Street	
Street and Apt. No. New Martinville, WV 26155	
City, State, ZIP+4®	

PS Form 3800, April 2014



7015 0640 0490 5T00 6809 6226 9323 6089


U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
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For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee	
\$	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$ _____
<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____
Postage	
\$	
Total Postage and Fees	
\$	
Sent To Raymond & Norma Davis	
5260 DuPond Road	
Street and Apt. No. Parkersburg, WV 26101	
City, State, ZIP+4®	

or Instructions



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11/20/2015

09502310

Surface Owners				
Gurrell N MCY TY 1H, 3H, 5H, 7H, 9H and 11H				
Gurrell S MCY TY 2H, 4H, 6H, 8H, 10H and 12H				
Name	Address	City	State	Zip
John W. Jones	720 James Street	New Martinsville	WV	26155
Raymon and Norma David	5260 DuPond Rpad	Parkersburg	WV	26101

Coal Owners				
Gurrell N MCY TY 1H, 3H, 5H, 7H, 9H and 11H				
Gurrell S MCY TY 2H, 4H, 6H, 8H, 10H and 12H				
Name	Address	City	State	Zip
Ascent Resources - Marcellus, LLC	3501 NW 63rd Street	Oklahoma City	OK	73116

Water Owners				
Gurrell N MCY TY 1H, 3H, 5H, 7H, 9H and 11H				
Gurrell S MCY TY 2H, 4H, 6H, 8H, 10H and 12H				
Name	Address	City	State	Zip
Betty Jean Hayes	10240 Indian Creek Road	Jacksonburg	WV	26377
Carl & Claudia Baker	575 Stackpole Run Road	Alvy	WV	26377
Carl Walters	3709 Shadey Grove Road	Providence	NC	27315
Carol Ann Aston	1212 Courtland Road	Weirton	WV	26062
Doris L. Wharton	313 Fourth Avenue	Paden City	WV	26159
Fred L. and Dottie Glover	162 McIntyre Fork Road	Jacksonburg	WV	26377
Gail, Esther & Heidi Waybright	HC 62 Boc 65	Jacksonburg	WV	26377
Jan Jones	584 Bennetts Mill Road Street	Jacksonburg	NJ	08527
Jerry Walters	17 Stackpole Run Road	Jacksonburg	WV	26377
John W. and Jo Ann Jones	720 James Street	New Martinsville	WV	26155
Joseph Dudley	31 Lefthand Fork Road	Jacksonburg	WV	26377
Randy and Terry Wadsworth	1108 McIntyre Fork Run Road	Alvy	WV	26377
Raymon and Norma Davis	5260 DuPond Rpad	Parkersburg	WV	26101
Stephen Paul Glover	129 McIntyre Fork Road	Jacksonburg	WV	26377
Timothy Rely	2887 Thomas Avenue	Huntington	WV	25705
WV Dept. of Natural Resources	Capitol Complex, Bldg 3, Rm 643	Charleston	WV	25305

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WV Department of
Environmental Protection
11/20/2015

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

Date of Notice: 6/15/2015 **Date of Planned Entry:** _____

Delivery method pursuant to West Virginia Code § 22-6A-10a

- PERSONAL SERVICE
 REGISTERED MAIL
 METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s) ✓

Name: John Jones

Address: 720 James Street
New Martinsville, WV 26155

Name: Raymond Davis & Norma S. ✓

Address: 410 Maple Avenue, Apt. 4
New Martinsville, WV 26155

Name: _____

Address: _____

COAL OWNER OR LESSEE

Name: Ascent Resources - Marcellus, LLC

Address: 301 NW 63rd Street, Suite 600
Oklahoma City, OK 73113

MINERAL OWNER(s)

Name: Please see attached.

Address: _____

*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>N 4367090.1/ E 526574.6</u>
County: <u>Tyler</u>	Public Road Access: _____
District: <u>McElroy</u>	Watershed: <u>Outlet Middle Island Creek</u>
Quadrangle: <u>Center Point</u>	Generally used farm name: _____

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: <u>Ascent Resources - Marcellus, LLC</u>	Address: <u>3501 NW 63rd, Suite 600</u>
Telephone: <u>405-607-5454</u>	<u>Oklahoma City, OK 73113</u>
Email: <u>ariel.bravo@aep-lp.com</u>	Facsimile: <u>405-607-5868</u>

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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Office of Oil and Gas
WV Department of
Environmental Protection

11/20/2015

Mineral Owners
Gurrell N MCY TY 7H

Helen Brunner Life Estate ✓
1646 22nd Avenue
San Francisco, CA 94122

John Jones ✓
720 James Street
New Martinsville, WV 26155

Jerry Walters ✓
17 Stackpole Run Road
Jacksonburg, WV 26377

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 06/15/2015 **Date Permit Application Filed:** 07/24/2015

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- CERTIFIED MAIL HAND
- RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: Raymond V. Davis Jr. & Norma S.
Address: 410 Maple Ave, Apt. 4
New Martinsville, WV 26155

Name: John Jones
Address: 720 James Street
New Martinsville, WV 26155

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>526568.6</u>
County:	<u>Tyler</u>		Northing:	<u>4367088.7</u>
District:	<u>McElroy</u>	Public Road Access:		<u></u>
Quadrangle:	<u>Center Point</u>	Generally used farm name:		<u></u>
Watershed:	<u>Outlet Middle Island Creek</u>			

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: Ascent Resources - Marcellus, LLC
Telephone: 405-607-5454
Email: ariel.bravo@aep-lp.com

Address: 3501 NW 63rd, Suite 600
Oklahoma City, OK 73113
Facsimile: 405-607-5868

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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AUG 27 2015
WV Department of
Environmental Protection
11/20/2015

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE CERTIFICATION

09502310

Date of Notice Certification: 07/22/2015

API No. 47- _____
Operator's Well No. Gurrell N MCY TY 7H
Well Pad Name: Gurrell MCY TY

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>526568.7</u>
County: <u>Tyler</u>	UTM NAD 83 Northing: <u>4367088.6</u>
District: <u>McElroy</u>	Public Road Access: <u>Indian Creek Road</u>
Quadrangle: <u>Center Point</u>	Generally used farm name: <u>John W. Jones</u>
Watershed: <u>Outlet Middle Island Creek</u>	

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY		OOG OFFICE USE ONLY <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED
<input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY	or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	
<input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY	or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED	
<input type="checkbox"/> 3. NOTICE OF INTENT TO DRILL	or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	
	<input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
<input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION		
<input checked="" type="checkbox"/> 5. PUBLIC NOTICE		
<input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit, certified mail service, the return receipt card or other postal receipt for certified mailing.

RECEIVED
Office of Oil and Gas

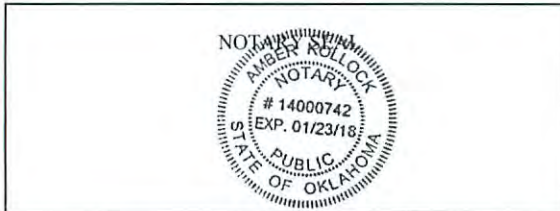
SEP 09 2015

Certification of Notice is hereby given:



THEREFORE, I Ariel Bravo, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, 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 and imprisonment.

Well Operator:	<u>Ascent Resources - Marcellus, LLC</u>	Address:	<u>3501 NW 63rd, Suite 600</u>
By:	<u>Ariel Bravo</u>		<u>Oklahoma City, OK 73113</u>
Its:	<u>Regulatory Technician</u>	Facsimile:	<u>405-607-5868</u>
Telephone:	<u>405-607-5529</u>	Email:	<u>ariel.bravo@aep-lp.com</u>



Subscribed and sworn before me this 22 day of July, 2015.



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 telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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Environmental Protection
11/20/2015



95-02310

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110
Charleston, West Virginia 25305-0430 • (304) 558-3505

Earl Ray Tomblin
Governor

Paul A. Mattox, Jr., P. E.
Secretary of Transportation/
Commissioner of Highways

September 18, 2015

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the Gurrell Pad, Tyler County

GURRELL N MCY TY 7H

Dear Mr. Martin,

This well site will be accessed from a DOH permit 06-2015-0424 which has been issued to Ascent Resources - Marcellus for access to the State Road. The well site is located off of Tyler County Route 13 SLS.

This operator has signed a Statewide Oil and Gas Road Maintenance Bonding Agreement and provided the required bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G Coordinator

Cc: Eric Bruckman
American Energy Marcellus
CH, OM, D-6
File

GURRELL MCY TY WELL PAD McELROY DISTRICT, TYLER COUNTY, WV JULY 2015



TWO WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT THE WV ONE CALL SYSTEM, INC., 1-800-245-4848
TICKET NUMBER: 1510521664

OWNER



ASCENT RESOURCES - MARCELLUS, LLC
1000 UTICA WAY
CAMBRIDGE, OH 43725



SHEET INDEX

1. TITLE SHEET
- 2-3. EVACUATION ROUTE/PREVAILING WIND
4. E&S CONTROL LAYOUT OVERVIEW
- 5-9. E&S CONTROL LAYOUT
10. E&S CONTROL AND SITE PLAN OVERVIEW
- 11-15. E&S CONTROL AND SITE PLAN
16. WELL PAD CROSS-SECTIONS
17. PROFILES C-C' AND D-D'
18. PRIMARY ACCESS ROAD PROFILE
19. PRIMARY ACCESS ROAD, ACCESS ROADS #1,#2,#3,#4 AND #5 PROFILES
- 20-22. PRIMARY ACCESS ROAD CROSS-SECTIONS
23. PRIMARY AND ACCESS ROAD #4 CROSS-SECTIONS
24. ACCESS ROAD #1, #4 AND #5 CROSS-SECTIONS
25. STREAM CROSSINGS #1 AND #2 CROSS-SECTIONS AND PROFILES
- 26-29. DETAIL SHEETS
30. TEST BORE CROSS-SECTIONS
- 31-32. EXISTING SITE FEATURES
33. RECLAMATION PLAN OVERVIEW
- 34-38. RECLAMATION PLAN
39. GRADING & VOLUME PLAN
40. QUANTITY SUMMARY

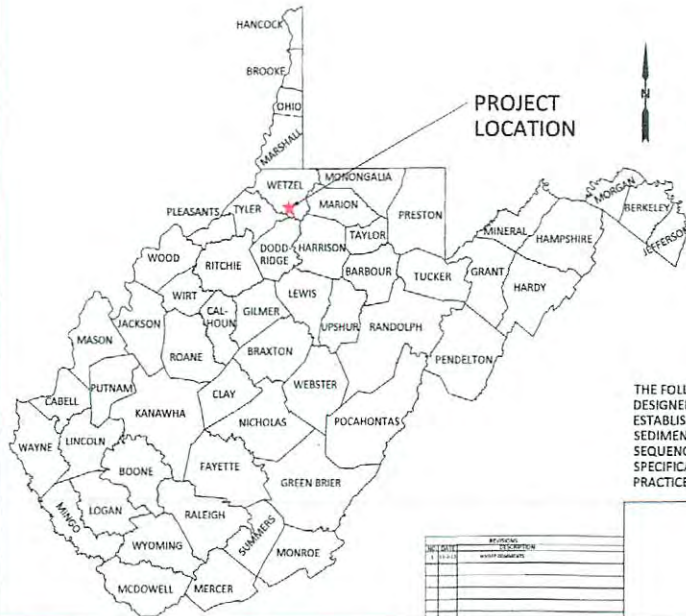
TOTAL PROJECT AREA: 34.9 AC.
ACCESS ROAD PROJECT AREA: 19.4 AC.
WELL PAD PROJECT AREA: 15.5 AC.

PLANS PREPARED BY:
BOORD BENCHEK & ASSOCIATES, INC.
ENGINEERING, SURVEYING, CONSTRUCTION AND MINING SERVICES
SOUTHPOINTE, PA 15317 PHONE: 724-746-1055



Andrew Benchek 7-22-15

ANDREW BENCHEK
P.E.



PROPERTY OWNER PROJECT DISTURBANCE ACREAGE

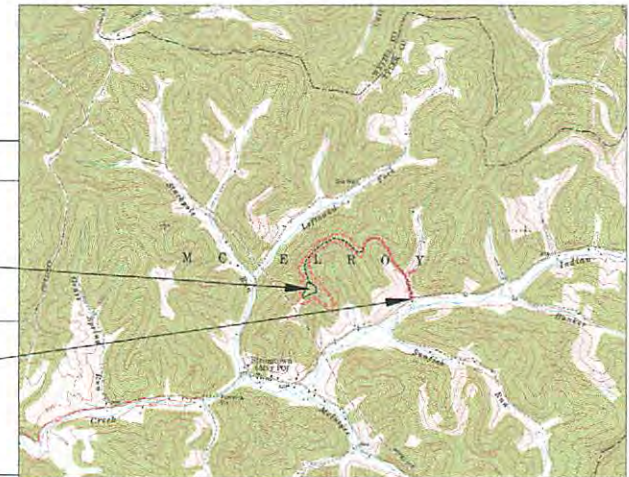
PROPERTY OWNER	PARCEL #	ACRES
IHG ENERGY LLC	5-8-38	0.2
BETTY JEAN HAYES	5-8-36	9.9
HELEN L. BRUNNER	5-8-34	2.9
JOHN W. JONES	5-8-35	16.0
RAYMON V. & NORMA S. DAVIS	5-13-4	5.9

IN ACCORDANCE WITH WV 35 CSR 8 THE FOLLOWING EROSION & SEDIMENT CONTROL PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES ESTABLISHED BY THE CHIEF AND PROVIDED IN THE OFFICE'S EROSION AND SEDIMENT CONTROL FIELD MANUAL. A GENERAL CONSTRUCTION SEQUENCE, DESCRIPTION OF STABILIZATION METHODS, AND DETAILS & SPECIFICATIONS FOR EROSION & SEDIMENT BEST MANAGEMENT PRACTICES HAVE BEEN INCLUDED IN THE PROVIDED DETAIL SHEETS.

COORDINATES

CENTER OF WELLS
(NAD 83)
LAT: 39.452919°
LONG: 80.691221°
(NAD 27)
LAT: 39.452836°
LONG: 80.691398°

SITE ENTRANCE
(NAD 83)
LAT: 39.452257°
LONG: 80.679549°
(NAD 27)
LAT: 39.452174°
LONG: 80.679726°



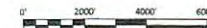
TITLE SHEET

GURRELL MCY TY WELL PAD
McELROY DISTRICT, TYLER COUNTY, WV

SHEET

1
OF
40

1"=2000'



95-02316

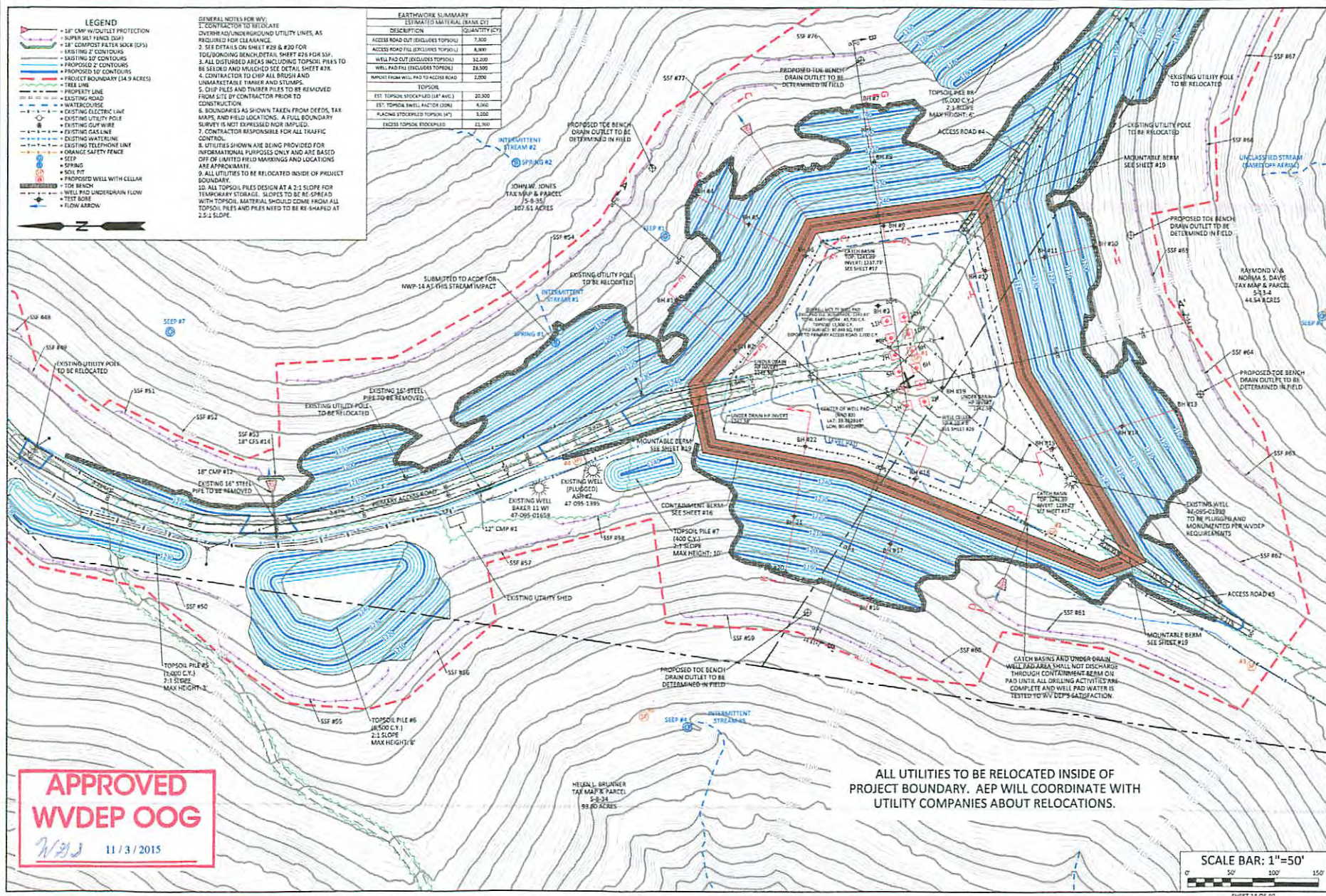
- LEGEND**
- 2" CMP WOODPILE PROTECTION
 - SUPER 161 FENCE (SFA)
 - 2" COMPACT FILTER SOCK (CFS)
 - EXISTING 2" CONTOURS
 - SAGGING 2" CONTOURS
 - PROPOSED 2" CONTOURS
 - PROPOSED 10" CONTOURS
 - PROJECT BOUNDARY (14.9 ACRES)
 - TIE LINE
 - PROPERTY LINE
 - EXISTING ROAD
 - WATERCOURSE
 - EXISTING ELECTRIC LINE
 - EXISTING UTILITY POLE
 - EXISTING GUP WIRE
 - EXISTING GAS LINE
 - EXISTING WATERLINE
 - EXISTING TELEPHONE LINE
 - ORANGE SAFETY FENCE
 - SEEP
 - SPRING
 - SOIL PIT
 - PROPOSED WELL WITH CELLAR
 - TOP BENCH
 - WELL PAD UNDERDRAIN FLOW
 - TEST BORE
 - FLOW ARROW

GENERAL NOTES FOR WVP:

- CONTRACTOR TO RELOCATE OVERHEAD UNDERGROUND UTILITY LINES, AS REQUIRED FOR CLEARANCE.
- SEE DETAILS ON SHEET #28 & #30 FOR TOPSOILING BENCH/DETAIL SHEET #28 FOR SFP.
- ALL DISTURBED AREAS INCLUDING TOPSOIL PILES TO BE SEEDED AND MULCHED SEE DETAIL SHEET #7X.
- CONTRACTOR TO CHIP ALL BRUSH AND UNMARKETABLE TIMBER AND STUMPS.
- GUP LINES AND THINER PILES TO BE REMOVED FROM SITE OF CONTRACTOR PRIOR TO CONSTRUCTION.
- BOUNDARIES AS SHOWN TAKEN FROM DEEDS, TAX MAPS, AND FIELD LOCATIONS. A FULL BOUNDARY SURVEY IS NOT EXPRESSED NOR IMPLIED.
- CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC CONTROL.
- UTILITIES SHOWN ARE BEING PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND ARE BASED OFF OF LIMITED FIELD MARKINGS AND LOCATIONS ARE APPROXIMATE.
- ALL UTILITIES TO BE RELOCATED INSIDE OF PROJECT BOUNDARY.
- ALL TOPSOIL PILES DESIGN AT A 2:1 SLOPE FOR TEMPORARY STORAGE. SLOPES TO BE RE-CREATED WITH TOPSOIL MATERIAL SHOULD COME FROM ALL TOPSOIL PILES AND PILES NEEDED TO BE RE-SHAPED AT 2.5:1 SLOPE.

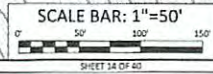
EARTHWORK SUMMARY

ESTIMATED MATERIAL	QUANTITY (CY)
ACCESS ROAD FILL (EXCLUDES TOPSOIL)	7,300
ACCESS ROAD FILL (EXCLUDES TOPSOIL)	4,800
WELL PAD FILL (EXCLUDES TOPSOIL)	32,800
WELL PAD FILL (EXCLUDES TOPSOIL)	28,500
IMPORT FROM WELLS PAD TO ACCESS ROAD	2,200
TOPSOIL	
EST. TOPSOIL STOCKPILES (14" AVG.)	20,300
EST. TOPSOIL BENCH FACTOR (30%)	4,500
KLING STOKER (TOPSOIL 14")	3,200
FACES TOPSOIL STOCKPILE	21,700



APPROVED WVDEP OOG
 7/23 11/3/2015

ALL UTILITIES TO BE RELOCATED INSIDE OF PROJECT BOUNDARY. AEP WILL COORDINATE WITH UTILITY COMPANIES ABOUT RELOCATIONS.



E&S CONTROL AND SITE PLAN

THIS DOCUMENT WAS PREPARED BY:
 BOORD, BENCHEK AND ASSOC., INC.
 FOR: ASCENT RESOURCES - MARCELLUS, LLC.

DATE:
 JULY 2015

GURRELL MC TY
 WELL PAD

McELROY DISTRICT,
 TYLER COUNTY, WV

NO.	DATE	REVISIONS DESCRIPTION
1	11-2-15	WVDEP COMMENTS

BOORD, BENCHEK and ASSOC., INC.
 Engineering, Surveying, Construction,
 and Mining Services
 Southpointe, PA 15317 Phone: 724-745-1055

95-08310

Received
 Office of Oil & Gas
 SEP 10 2015

GURRELL MCY TY WELL PAD McELROY DISTRICT, TYLER COUNTY, WV JULY 2015



TWO WORKING DAYS PRIOR TO EXCAVATION, THE
 CONTRACTOR MUST CONTACT THE WV ONE CALL
 SYSTEM, INC., 1-800-245-4848
 TICKET NUMBER: 1510521664

OWNER



ASCENT RESOURCES - MARCELLUS, LLC
 1000 UTICA WAY
 CAMBRIDGE, OH 43725

SHEET INDEX	
1.	TITLE SHEET
2-3.	EVACUATION ROUTE/PREVAILING WIND
4.	E&S CONTROL LAYOUT OVERVIEW
5-9.	E&S CONTROL LAYOUT
10.	E&S CONTROL AND SITE PLAN OVERVIEW
11-15.	E&S CONTROL AND SITE PLAN
16.	WELL PAD CROSS-SECTIONS
17.	PROFILES C-C' AND D-D'
18.	PRIMARY ACCESS ROAD PROFILE
19.	PRIMARY ACCESS ROAD, ACCESS ROADS #1,#2,#3,#4 AND #5 PROFILES
20-22.	PRIMARY ACCESS ROAD CROSS-SECTIONS
23.	PRIMARY AND ACCESS ROAD #4 CROSS-SECTIONS
24.	ACCESS ROAD #1, #4 AND #5 CROSS-SECTIONS
25.	STREAM CROSSINGS #1 AND #2 CROSS-SECTIONS AND PROFILES
26-29.	DETAIL SHEETS
30.	TEST BORE CROSS-SECTIONS
31-32.	EXISTING SITE FEATURES
33.	RECLAMATION PLAN OVERVIEW
34-38.	RECLAMATION PLAN
39.	GRADING & VOLUME PLAN
40.	QUANTITY SUMMARY
TOTAL PROJECT AREA: 34.9 AC.	
ACCESS ROAD PROJECT AREA: 19.4 AC.	
WELL PAD PROJECT AREA: 15.5 AC.	

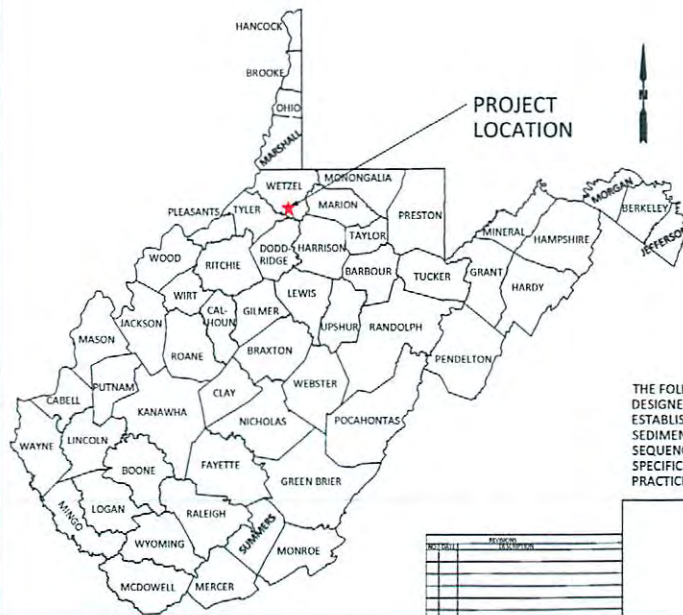
PLANS PREPARED BY:
BOORD BENCHEK & ASSOCIATES, INC.
 ENGINEERING, SURVEYING, CONSTRUCTION AND MINING SERVICES
 SOUTHPOINTE, PA 15317 PHONE: 724-746-1055



MDG
 8-31-15

Andrew Benchek 7-22-15

ANDREW BENCHEK
 P.E.

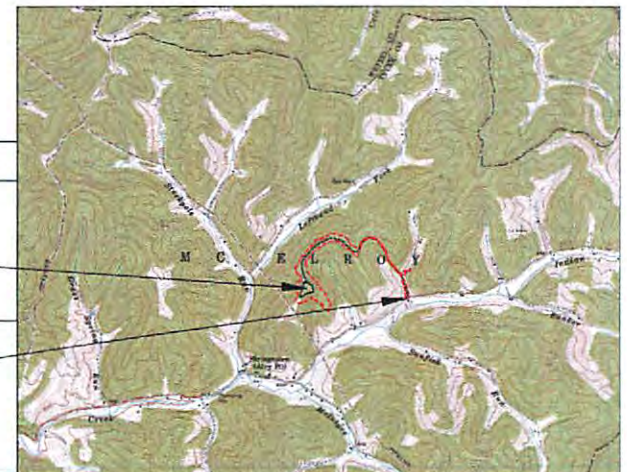


PROPERTY OWNER PROJECT BOUNDARY ACREAGE		
PROPERTY OWNER	PARCEL #	ACRES
HGS ENERGY LLC	5-8-38	0.2
BETTY JEAN HAYES	5-8-36	9.9
HELEN L. BRUNNER	5-8-34	2.9
JOHN W. JONES	5-8-35	16.0
RAYMON V. & NORMA S. DAVIS	5-13-4	5.9

COORDINATES

CENTER OF WELLS
 (NAD 83)
 LAT: 39.452919°
 LONG: 80.691221°
 (NAD 27)
 LAT: 39.452836°
 LONG: 80.691398°

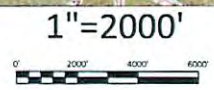
SITE ENTRANCE
 (NAD 83)
 LAT: 39.452257°
 LONG: 80.679549°
 (NAD 27)
 LAT: 39.452174°
 LONG: 80.679726°



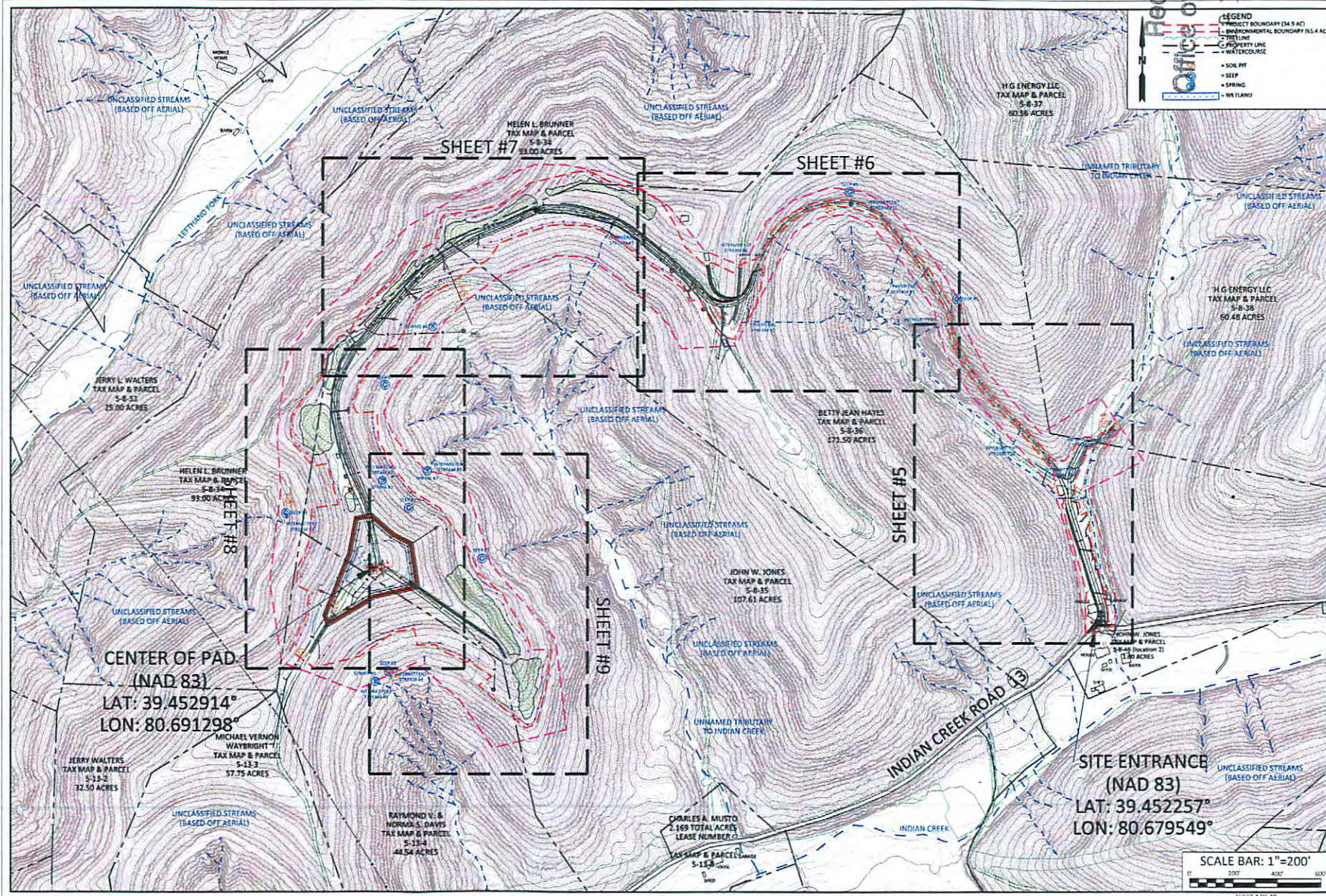
IN ACCORDANCE WITH WV 35 CSR 8
 THE FOLLOWING EROSION & SEDIMENT CONTROL PLAN HAS BEEN
 DESIGNED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES
 ESTABLISHED BY THE CHIEF AND PROVIDED IN THE OFFICE'S EROSION
 AND SEDIMENT CONTROL FIELD MANUAL. A GENERAL CONSTRUCTION
 SEQUENCE, DESCRIPTION OF STABILIZATION METHODS, AND DETAILS &
 SPECIFICATIONS FOR EROSION & SEDIMENT BEST MANAGEMENT
 PRACTICES HAVE BEEN INCLUDED IN THE PROVIDED DETAIL SHEETS.

TITLE SHEET	
GURRELL MCY TY WELL PAD MCELROY DISTRICT, TYLER COUNTY, WV	

SHEET	
1	OF
40	



Received
Office of Oil & Gas
10 2015



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

E&S CONTROL LAYOUT OVERVIEW

THIS DOCUMENT WAS PREPARED BY:
BOORD, BENCHEK AND ASSOC., INC.
FOR: ASCENT RESOURCES - MARCELLUS, LLC.

DATE:
JULY 2015

GURRELL MCY TY
WELL PAD

MCELROY DISTRICT,
TYLER COUNTY, WV

REV. DATE	DESCRIPTION



MAG
8-31-15