



west virginia department environmental protection

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

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

Wednesday, December 20, 2017
WELL WORK PERMIT
Horizontal 6A / New Drill

ASCENT RESOURCES-MARCELLUS, LLC
3501 NW 63RD STREET

OKLAHOMA CITY, OK 73116

Re: Permit approval for HOGE S GRN WZ 2H
47-103-03208-00-00

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

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

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: HOGE S GRN WZ 2H
Farm Name: STATE OF WV PUBLIC LD CORP. DEPT. OF COMM. LBR & EN
U.S. WELL NUMBER: 47-103-03208-00-00
Horizontal 6A / New Drill
Date Issued: 12/20/2017

Promoting a healthy environment.

12/22/2017

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. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. 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.
10. 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.

PERMIT CONDITIONS

11. 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.



west virginia department of environmental protection

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601 57th Street
Charleston, WV 25304
(304) 926-0450 fax (304) 926-0452

Jim Justice, Governor
Austin Caperton, Cabinet Secretary
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**ORDER
ISSUED UNDER
WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A**

TO: Ascent Resources – Marcellus, LLC
3501 NW 63rd Street
Oklahoma City, OK 73116

DATE: December 8, 2017
ORDER NO.: 2017-W-10

INTRODUCTION

This Order (hereinafter “Order”) is issued by the Office of Oil and Gas (hereinafter “OOG”), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 *et seq.* to Ascent Resources – Marcellus, LLC (hereinafter “Ascent” or “Operator”), collectively the “Parties.”

FINDINGS OF THE CHIEF

In support of this Order, the Chief hereby finds the following:

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.
2. Ascent is a “person” as defined by W. Va. Code §22-6-1(n), with a corporate address as 3501 NW 63rd Street, Oklahoma City, Oklahoma.
3. On August 17, 2017, Ascent submitted well work permit applications identified as API#s 47-103-3206 and 47-103-3207. On September 11, 2017, Ascent submitted well work permit applications identified as API#s 47-103-3208, 47-103-3209 and 47-103-3210. The five proposed wells are to be located on the Hoge GRN WZ Pad in Green District of Wetzel County, West Virginia.
4. On September 11, 2017 Ascent requested a waiver for Wetlands 3 and 5 outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API#s 47-103-3206, 47-103-3207, 47-103-3208, 47-103-3209 and 47-103-3210.

CONCLUSIONS OF LAW

1. West Virginia Code §22-1-6(d) requires, in part, that “[i]n addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing.”
2. West Virginia Code §22-6A-2(a)(6) requires, in part, that “Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter.”
3. West Virginia Code §22-6A-12(b) requires, in part, that “[n]o 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 Office of Oil and Gas 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 Office of Oil and Gas 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.”

ORDER

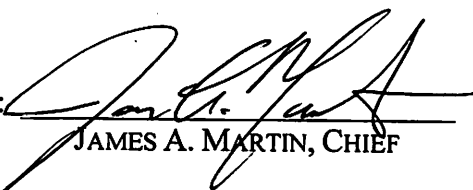
West Virginia Code §22-6A-12(b) requires, in part, that “[n]o well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetland 3 and 5 from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API#s 47-103-3206, 47-103-3207, 47-103-3208, 47-103-3209 and 47-103-3210. The Office of Oil and Gas hereby **ORDERS** that Ascent shall meet the following site construction and operational requirements for the Hoge GRN WZ Well Pad:

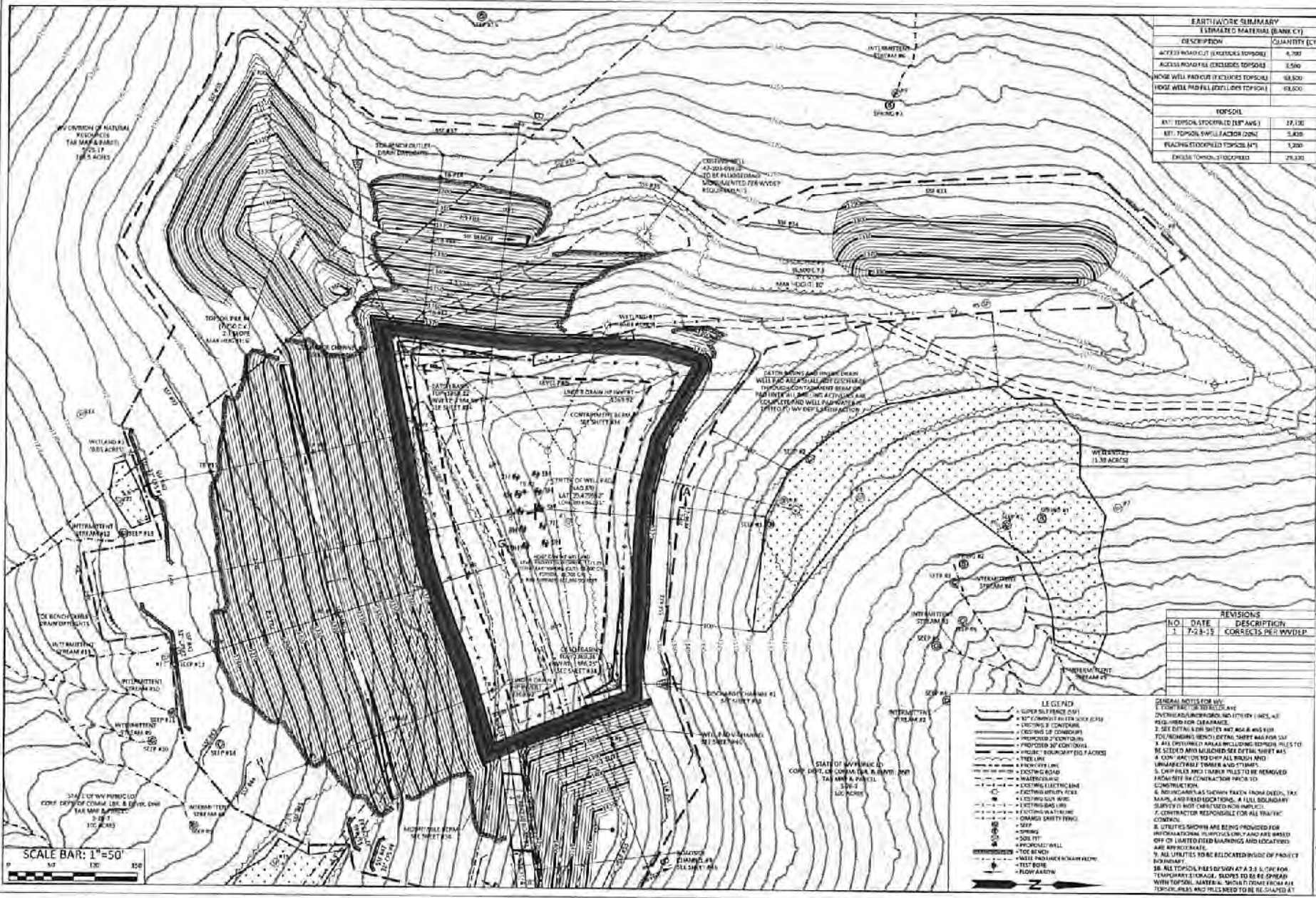
- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24”) in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
- c. Wetland 3 shall have thirty two inch (32”) compost filter sock and super silt fencing to prevent sediment from reaching the wetlands.
- d. Wetland 5 shall have super silt fencing to prevent sediment from reaching the wetlands from the access road.
- e. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- f. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- g. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- h. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- i. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- j. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½”) rain within any twenty-four (24) hour period;
- k. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- l. All records from inspections shall be maintained on site for the life of the project and be available upon request.

Thus ORDERED, the 8th day of December, 2017.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By: 
JAMES A. MARTIN, CHIEF



EARTHWORK SUMMARY	
DESCRIPTION	QUANTITY (CY)
ADDED ROAD CUT (EXCLUDES TOPSOIL)	5,700
ADDED ROADWAY (EXCLUDES TOPSOIL)	3,500
HOGE W2 PAD FILL (EXCLUDES TOPSOIL)	18,800
HOGE W2 PAD FILL (EXCLUDES TOPSOIL)	19,300
TOPSOIL	
EXT. TOPSOIL STOCKPILED (10" AVG.)	17,100
INT. TOPSOIL (W/ FILL FACTOR 2.0X)	3,800
PLANS STOCKPILED TOPSOIL (4")	1,200
EXCESS TOPSOIL STOCKPILED	29,300

BOORD, BENCHER and ASSOC., INC.
 Engineering, Surveying, Construction
 and Mining Services
 Southport, PA 15317 Phone 724-746-1055

E&S CONTROL AND SITE PLAN

THIS DOCUMENT WAS PREPARED BY:
 BOORD, BENCHER AND ASSOC., INC.
 FOR: AMERICAN ENERGY MAR-CELLUS, LLC.

DATE:
 MAY 2015

GREEN & MCELROY
 DISTRICTS,
 WETZEL & TYLER
 COUNTIES, WV



REVISIONS		
NO.	DATE	DESCRIPTION
1	7-23-15	CORRECTS PER WWDWP

- LEGEND**
- 1" SUPER ELEVANCE CURB
 - 2" SUPER ELEVANCE CURB
 - 3" SUPER ELEVANCE CURB
 - 4" SUPER ELEVANCE CURB
 - 5" SUPER ELEVANCE CURB
 - 6" SUPER ELEVANCE CURB
 - 7" SUPER ELEVANCE CURB
 - 8" SUPER ELEVANCE CURB
 - 9" SUPER ELEVANCE CURB
 - 10" SUPER ELEVANCE CURB
 - 11" SUPER ELEVANCE CURB
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 - 99" SUPER ELEVANCE CURB
 - 100" SUPER ELEVANCE CURB

GENERAL NOTES FOR WWDWP:

1. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER FOR CLARIFICATION.
2. SEE DETAIL SHEETS AND SPECIFICATIONS FOR ALL CONSTRUCTION.
3. SEE DETAIL SHEETS AND SPECIFICATIONS FOR ALL CONSTRUCTION.
4. ALL PROPOSED AREAS INCLUDING TOPSOIL PILES TO BE SITED AND MAINTAINED IN DETAIL SHEET AS SHOWN AND TO REMAIN UNDISTURBED UNTIL UNLESS OTHERWISE NOTED.
5. CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS AND PERMITS.
6. CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS AND PERMITS.
7. CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC CONTROL.
8. STREETS SHOWN ARE BEING PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND ARE BASED ON LIMITED FIELD MARKINGS AND LOCATIONS AND SHOULD NOT BE USED FOR CONSTRUCTION.
9. ALL UTILITIES TO BE RELOCATED PRIOR TO CONSTRUCTION.
10. ALL TOPSOIL PILES SHALL BE SITED AT A 3:1 SLOPE FOR TEMPORARY STORAGE. PILES TO BE SITED WITH TOPSOIL LAYER 18" TO 24" DEEP FROM ALL TOPSOIL PILES AND PILES NEED TO BE GRADED AT

SCALE BAR: 1"=50'

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

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

2) Operator's Well Number: Hoge S GRN WZ 2H Well Pad Name: Hoge GRN WZ

3) Farm Name/Surface Owner: WV DNR Public Lands Corp Public Road Access: CR 13/8

4) Elevation, current ground: 1380' Elevation, proposed post-construction: 1371.25'

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

Other _____

(b) If Gas Shallow Deep _____

Horizontal

6) Existing Pad: Yes or No No *DMAH 12/14/17*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):
Marcellus, Approximate TVD 7312', approximate thickness 50', +/- 4600 psi

8) Proposed Total Vertical Depth: 7352'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 19400'

11) Proposed Horizontal Leg Length: 13995'

12) Approximate Fresh Water Strata Depths: 472'

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

14) Approximate Saltwater Depths: 970'

15) Approximate Coal Seam Depths: 1162'

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

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

Depth: _____

Seam: _____

Owner: _____

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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#	600'	600'	320, CTS
Coal							
Intermediate	9-5/8"	New	J-55	40#	3490'	3490'	1400, CTS
Production	5-1/2"	New	P-110	20#	19400'	19400'	4910
Tubing	2-7/8"	New	N-80	4.7#			
Liners							

DMH 12/14/17

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"	26"	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	Class A	Tail 1.27, Lead 1.51
Production	5-1/2"	8-3/4"	0.361	12640	5000	Premium H50-50 Poz H	Tail 1.27, Lead 1.51
Tubing	2-7/8"	4.778"	0.19	11100			
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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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 600' and set freshwater casing. We will then continue drilling vertically and setting casing per the attached casing program to TD.

DMAH 12/14/17

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.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 50.7

22) Area to be disturbed for well pad only, less access road (acres): 13.6

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: Class A 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.

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DEC 15 2017

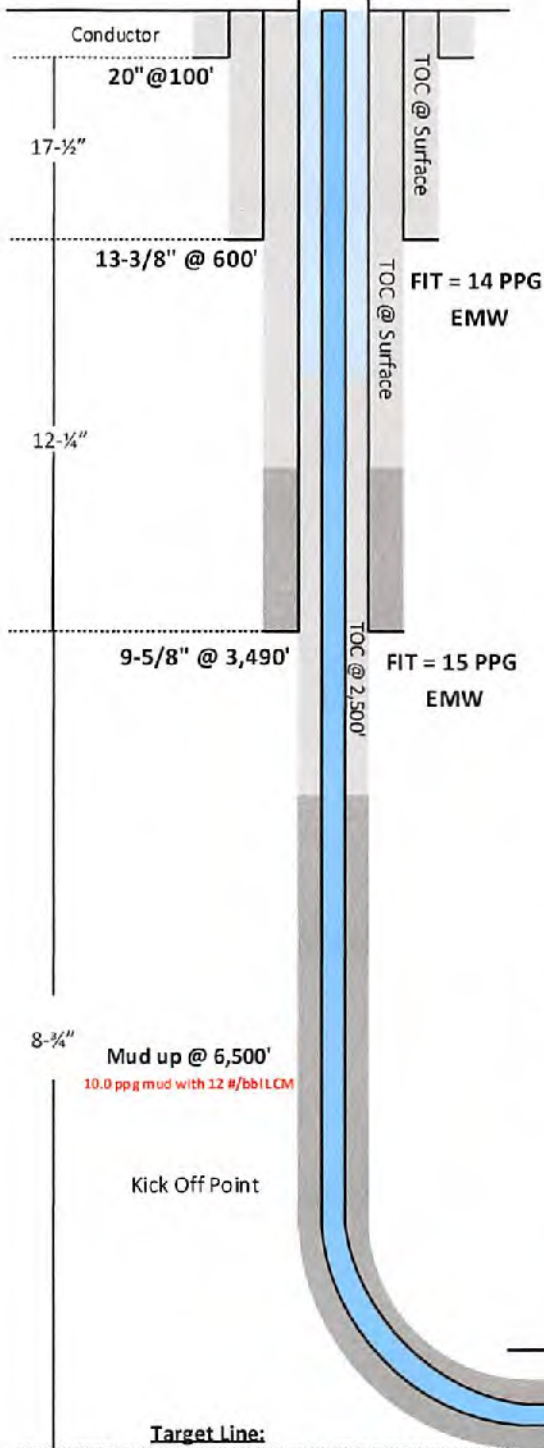
*Note: Attach additional sheets as needed.

103-03208

Hoge S GRN WZ 2H



County, State: Wetzel, West Virginia		Township: Grant	Location:		Formation: Marcellus	
Coordinates: NAD 27	SHL Lat/Long: 39.479706 N, 80.696547 W		RKB / Elevation:		AFE DC/CWC:	
	BHL Lat/Long:				USDW: 472'	Property #:
Rig:		Target Line: 7,352' TVD @ 0° VS, 89.6 Inc, 150 Azi			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	600	36
Intermediate	12-1/4"	9-5/8"	36	J-55	LTC	2,020	3,520	3,490	22
Production	8-3/4"	5-1/2"	20	P-110	ULT-DOX	11,110	12,640	19,400	22

Interval	Slurry	Weight	Ft ³	Yeild	Excess	Cement Top
Conductor	Tail	15.6 ppg	330	1.20 cuft/sk	50%	Surface
	Lead	15.6 ppg	320	1.20 cuft/sk	50%	Surface
Surface	Tail	15.6 ppg	320	1.20 cuft/sk	50%	Surface
	Lead	15.6 ppg	320	1.20 cuft/sk	50%	Surface
Intermediate	Tail	13.5 ppg	250	1.51 cuft/sk	30%	700
	Lead	13.5 ppg	250	1.51 cuft/sk	30%	700
Production	Tail	13.5 ppg	810	1.51 cuft/sk	10%	2500
	Lead	13.5 ppg	810	1.51 cuft/sk	10%	2500
	Tail	15.3 ppg	4100	1.27 cuft/sk		5500

Formation	TVD	Sub Sea
Freshwater	472	900'
Saltwater	970	402'
Pittsburgh Coal	1162	210'
Big Injun	2447	-1,075'
Big Injun Base	2647	-1,275'
Berea	3019	-1,647'
Gordon	3225	-1,853'
Gordon Base	3291	-1,919'
Middlesex	7052	-5,680'
Geneseo	7190	-5,818'
Tully	7218	-5,846'
Hamilton	7241	-5,869'
Marcellus	7312	-5,940'
Purcell	7327	-5,955'
Lower Marcellus	7329	-5,957'
Basal Marcellus	7340	-5,968'
Onondaga	7362	-5,990'

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8-3/4" Curve and Lateral | 5-1/2" Casing @ 19,400'

Target Line:
 7,352' TVD @ 0° VS, 89.6° Inc, 150° 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)	HTHP (ml/30min)	PV (cps)	YP (#/100 ft ²)	6 RPM	WPS ppm	OWR % by vol
Surface	0' - 600'	>5000	30-50	1/2 - 3/4	Curve	6,500' - 7,819'	10.5 - 13.5	50 - 60	4 - 6	18 - 24	10 - 12	6-9	150K - 180K	75:25 - 70:30
Intermediate	600' - 3490'	>5000	30-50	1/2 - 3/4	Lateral	7,819' - 19,400'	13.5 - 13.7	50 - 60	4 - 6	18 - 24	10 - 12	6-9	180K	70:30
Vert/Nudge	3,490' - 6,500'	>5000	40-60	3/4 - 1										

12/22/2017

WW-9
(9/13)

API Number 47 - 103 - 03208
Operator's Well No. Hoge S GRN W2 2H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Ascent Resources - Marcellus, LLC OP Code 494514693

Watershed (HUC 10) Fishing Creek Quadrangle Center Point

Elevation 1380' County Wetzel District Green

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 _____)
- DWAH 12/14/17*

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] RECEIVED Office of Oil and Gas

Company Official (Typed Name) Ascent Resources - Marcellus, LLC

Company Official Title Regulatory Analyst DEC 15 2017

Subscribed and sworn before me this 7 day of August

[Signature] Notary Public

My commission expires 1/23/18

WV Department of Environmental Protection



12/22/2017

Form WW-9

Operator's Well No. Hoge S GRN WZ 8H

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: Derek M. Haught

Comments: _____

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Environmental Protection

Title: Oil & Gas Inspector

Date: 12/14/17

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 transferred off-site for disposal.

DMH 12/14/17

Drilling Additives

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

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
D294
Anco Bar
Petrogel 100
Claytone
Lime
Calcium Chloride
Anco Trol
Base Oil (Kensol 48H)
Anco Mul Mod

Anco Mul OW
Anco Mul P
Anco Mul S
Anco Mul Thin
Anco Thunder Plug
Calcium Carbonate M
Cedar Fiber
LCF Blend
Mica Fine
Walnut Shell Med
Anco Drill A

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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

DWAH 12/14/17

Winter – 3 ton per acre

Summer – 2 ton per acre

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UIC WELLS and Landfills

<u>Disposal Location</u>	<u>Type</u>	<u>Permit No.</u>
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 Cottonseed Hulls
 D294
 Anco Bar
 Petrogel 100
 Claytone
 Lime
 Calcium Chloride
 Anco Trol
 Base Oil (Kensol 48H)
 Anco Mul Mod

Anco Mul OW
 Anco Mul P
 Anco Mul S
 Anco Mul Thin
 Anco Thunder Plug
 Calcium Carbonate M
 Cedar Fiber
 LCF Blend
 Mica Fine
 Walnut Shell Med
 Anco Drill A

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WATER WELLS WITHIN 3000'

103-03208

INTERNAL

Applicant / Well Operator Name: Ascent Resources - MARCELLUS, LLC	Well (Farm) Name: HOGE S GRN WZ	Well #: 2H	Serial #:
--	------------------------------------	---------------	-----------

Addresses of Surface Owner or Water Purveyor with Water Supply within 3,000'

- | | | |
|---|-----------------------------------|--|
| 1. YELLOW HOUSE SPORTSMAN CLUB (05-25-11) | 1522 MAIN ST, WELLSBURG, WV 26070 | (NAD 83 WV North) 39.482521,-80.700162 |
| 2. RICHARD HEIMBROD (05-25-7) | PO BOX 25, CLARINGTON, OH 43915 | (NAD 83 WV North) 39.485363,-80.697558 |

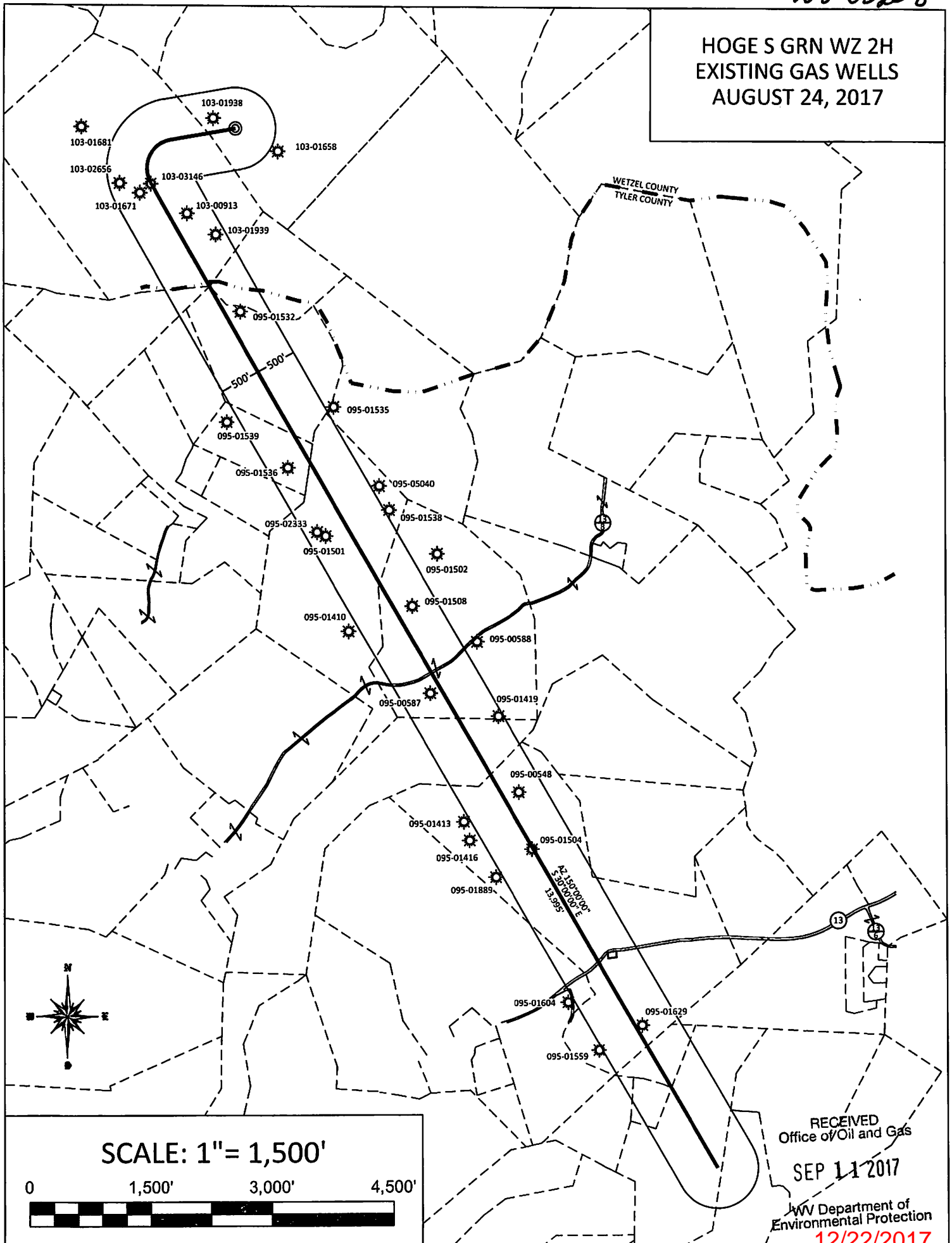
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12/22/2017

HOGES GRN WZ 2H
EXISTING GAS WELLS
AUGUST 24, 2017



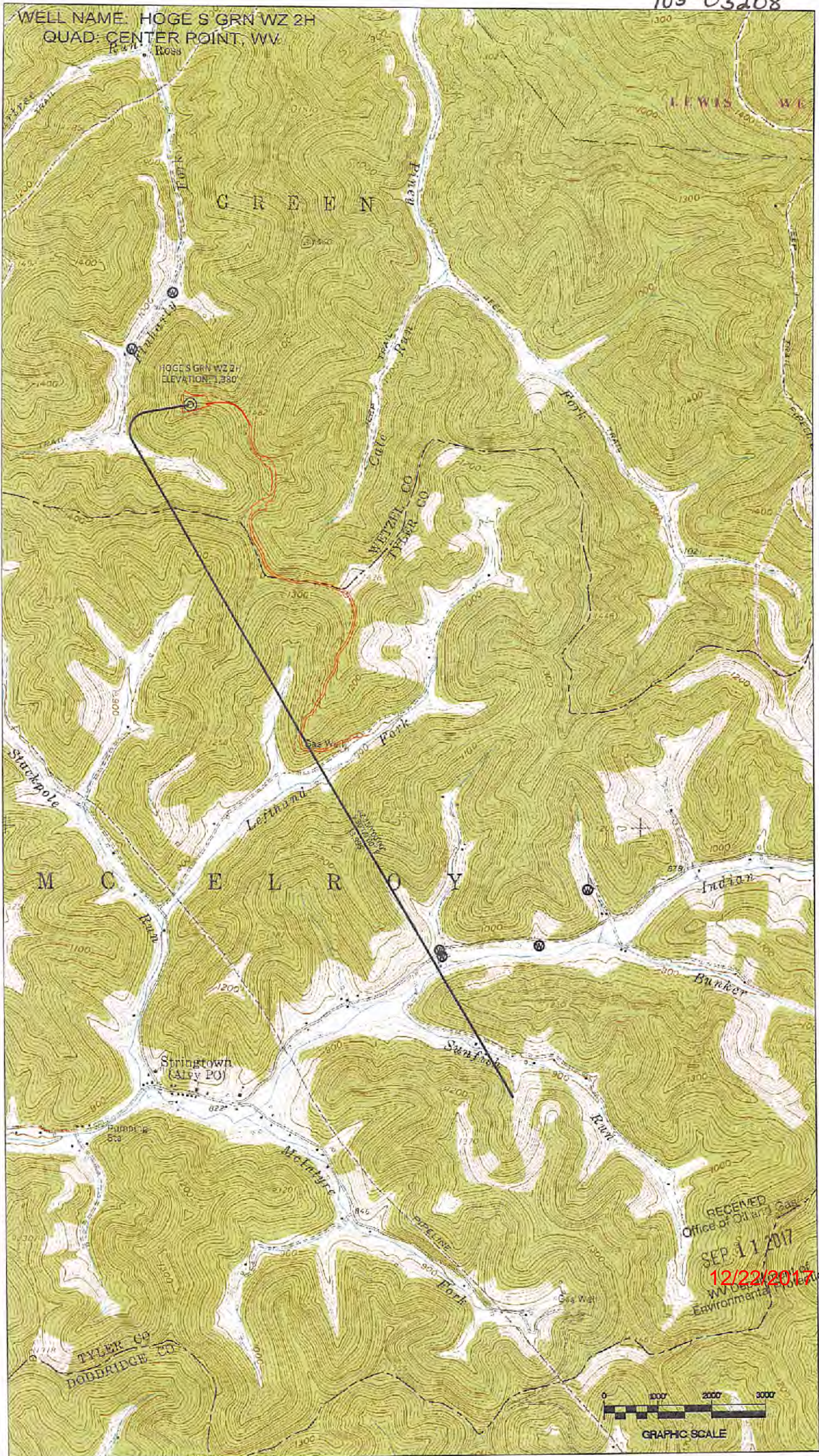
SCALE: 1" = 1,500'



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WELL NAME: HOGE S GRN WZ 2H
QUAD: CENTER POINT, WV



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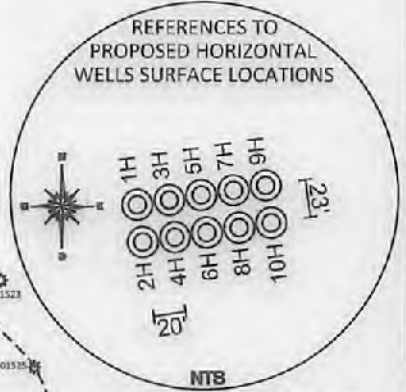
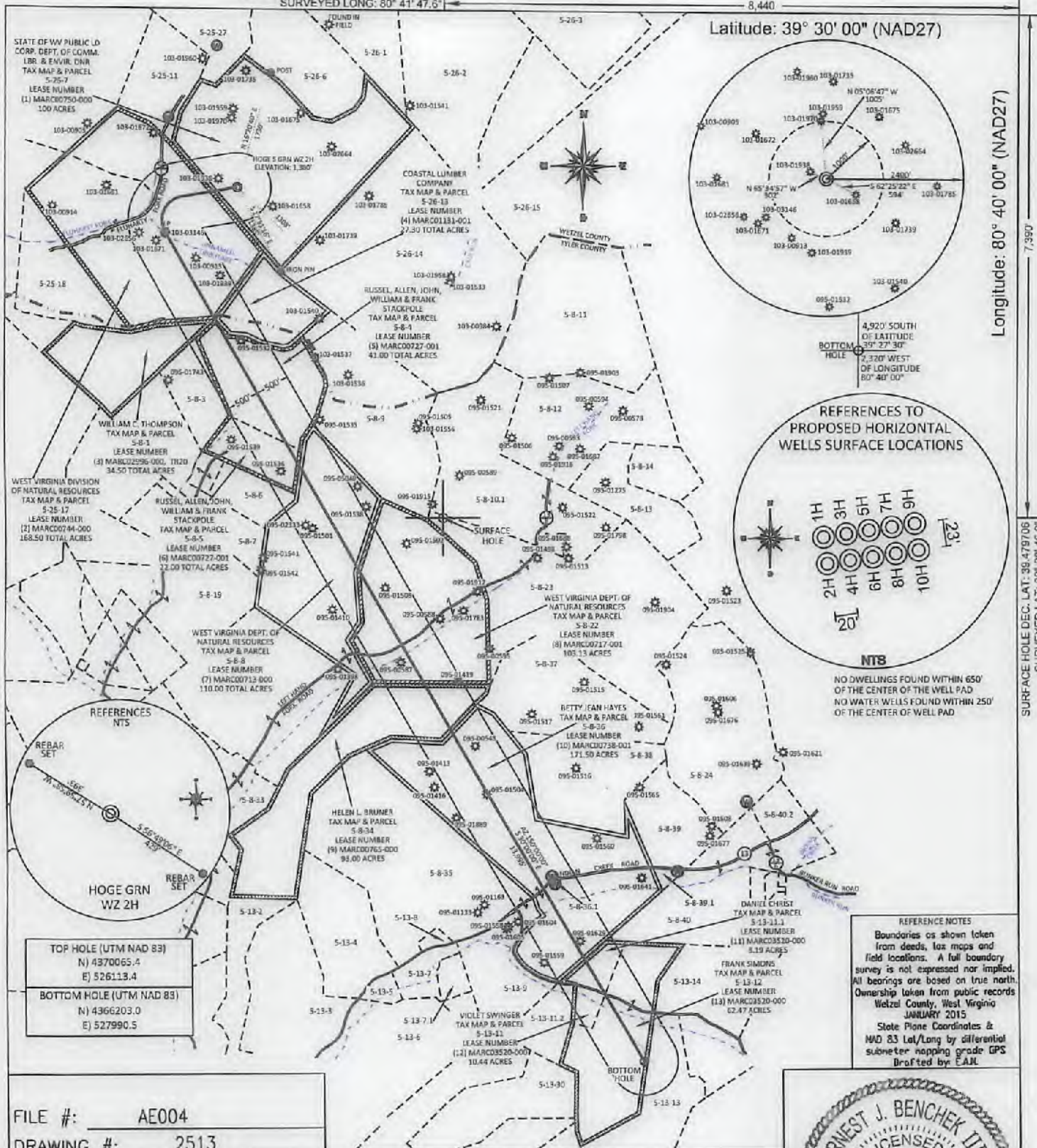
SURFACE HOLE DEC. LONG: 80.696547
 SURVEYED LONG: 80° 41' 47.6"

8,440

Latitude: 39° 30' 00" (NAD27)

Longitude: 80° 40' 00" (NAD27)

SURFACE HOLE DEC. LAT: 39.479706
 SURVEYED LAT: 39° 28' 46.9"

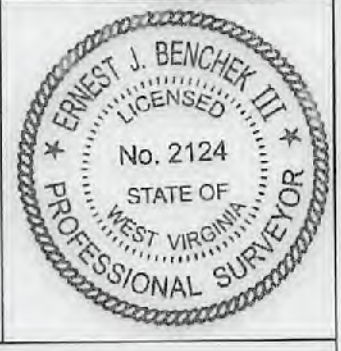


TOP HOLE (UTM NAD 83)	N) 4370065.4
	E) 526113.4
BOTTOM HOLE (UTM NAD 83)	N) 4366203.0
	E) 527990.5

REFERENCE NOTES
 Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records Wetzel County, West Virginia JANUARY 2015
 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS
 Drafted by: E.A.M.

FILE #: AE004
 DRAWING #: 2513
 SCALE: PLAT - 1" = 2000'
 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

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

WATERSHED: FISHING CREEK
 COUNTY/DISTRICT: WETZEL / GREEN
 SURFACE OWNER: STATE OF WV PUBLIC LD CORP. DEPT. OF COMM. LBR & ENVIR. DNR
 OIL & GAS ROYALTY OWNER: STATE OF WV PUBLIC LD CORP. DEPT. OF COMM. LBR & ENVIR. DNR
 LEASE NUMBERS: _____

DATE: AUGUST 24, 2017
 OPERATOR'S WELL #: HOGE S GRN WZ 2H
 API WELL #: 47 103 03208H6A
 STATE COUNTY PERMIT

ELEVATION: 1,380' = Current
 1,371.25' = Proposed
 QUADRANGLE: CENTER POINT, WV
 ACREAGE: 100.00 +/-
 ACREAGE: 952.03 +/- 12/22/2017

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: 7.352' TMD: 19.400'
 WELL OPERATOR: Ascent Resources - Marcellus, LLC
 ADDRESS: 3501 NW 63rd Street
 CITY: Oklahoma City STATE: OK ZIP CODE: 73116
 DESIGNATED AGENT: Eric B. Gillespie
 ADDRESS: 100 Star Ave Suite 120
 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

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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, LLC

By:



Its:

Regulatory Analyst

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)

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(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:

Ascend 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 Ascend 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.

Table with 7 columns: Tract, Parcel No., Fee/Lease No., Lessor/Assignor, Lessee/Assignee, Royalty/Instrument, Book/Page. Contains multiple rows of lease data for Tracts 1 through 8, including details on companies like South Penn Oil Company, Pennzoil, and American Energy.

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103-03208

			Devon Energy Production Company, L.P.	East Resources, Inc.	Assignment	332/146
			East Resources, Inc.	HG Energy, LLC	Assignment	379/480
			East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	451/404
7	5-8-8 ✓	MARCD0713-000	American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Cert. of Name Change	WV Sec. of State records
			Jasper Lemasters and Mary Lemasters, his wife	South Penn Oil Company	1/8	23/6
			South Penn Oil Company	South Penn Natural Gas Company	Assignment	114/16
			South Penn Natural Gas Company	South Penn Oil Company	Assignment	151/516
			South Penn Oil Company	Pennoil Company	Cert. of Name Change	WV Sec. of State records
			Pennoil Company	Pennoil United, Inc.	Assignment	178/221
			Pennoil United, Inc.	Pennoil Company	Cert. of Name Change	WV Sec. of State records
			Pennoil Company	Pennoil Products Company	Assn. & Supp. Assn.	265/258 & 269/417
			Pennoil Products Company	Pennoil Exploration and Production Company	Assignment	325/178
			Pennoil Exploration and Production Company	Pennoil Exploration and Production, L.L.C.	Cert. of Merger	8/516
			Pennoil Exploration and Production, L.L.C.	Devon Energy Production Company, L.P.	Cert. of Merger	8/576
			Devon Energy Production Company, L.P.	East Resources, Inc.	Assignment	332/146
			East Resources, Inc.	HG Energy, LLC	Assignment	379/480
			East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	451/404
8	5-8-22 ✓	MARCD0717-001	American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Cert. of Name Change	WV Sec. of State records
			A.D. Lemasters and Mary Lemasters, husband and wife	South Penn Oil Company	1/8	23/100
			South Penn Oil Company	South Penn Natural Gas Company	Assignment	114/16
			South Penn Natural Gas Company	South Penn Oil Company	Assignment	151/516
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			East Resources, Inc.	HG Energy, LLC	Assignment	379/480
			East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	451/404
9	5-8-34 ✓	MARCD0765-000	American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Cert. of Name Change	WV Sec. of State records
			Charles Clifton Penick and Mary H. Penick his wife	Brooks Gas Company	1/8	30/292
			Brooks Gas Company	Two Brothers Oil Company	Assignment	30/594
			Brooks Gas Company	South Penn Oil Company	Assignment	30/827
			Two Brothers Oil Company	South Penn Oil Company	Assignment	35/535
			South Penn Oil Company	South Penn Natural Gas Company	Assignment	114/16
			South Penn Natural Gas Company	South Penn Oil Company	Assignment	151/516
			South Penn Oil Company	Pennoil Company	Cert. of Name Change	WV Sec. of State records
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			Pennoil Exploration and Production, L.L.C.	Devon Energy Production Company, L.P.	Cert. of Merger	8/576
			Devon Energy Production Company, L.P.	East Resources, Inc.	Assignment	332/146
			East Resources, Inc.	HG Energy, LLC	Assignment	379/480
			East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	451/404
10	5-8-38 ✓	MARCD0738-001	American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Cert. of Name Change	WV Sec. of State records
			F.R. Ball	South Penn Oil Company	1/8	27/309
			South Penn Oil Company	South Penn Natural Gas Company	Assignment	114/16
			South Penn Natural Gas Company	South Penn Oil Company	Assignment	151/516
			South Penn Oil Company	Pennoil Company	Cert. of Name Change	WV Sec. of State records
			Pennoil Company	Pennoil United, Inc.	Assignment	178/221
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			American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Cert. of Name Change	WV Sec. of State records
11	5-13-11.1 ✓	MARCD03520-000	Melissa L. Denko aka Melissa L. Lamb, a married woman dealing in her sole and separate property	Ascent Resources - Marcellus, LLC	1/8	540/53
12	5-13-11 ✓	MARCD03520-000	Melissa L. Denko aka Melissa L. Lamb, a married woman dealing in her sole and separate property	Ascent Resources - Marcellus, LLC	1/8	540/53
13	5-13-12 ✓	MARCD03520-000	Melissa L. Denko aka Melissa L. Lamb, a married woman dealing in her sole and separate property	Ascent Resources - Marcellus, LLC	1/8	540/53

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12/22/2017

103-03208



September 7, 2017

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
Hoge S GRN WZ 2H

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 Hoge S GRN WZ 2H 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 Renken', is written over a light blue horizontal line.

Ariel Renken
Regulatory Analyst
ariel.renken@ascentresources.com
Cell 405-403-4803
Office 405-252-7642

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WV Department of
Environmental Protection

12/22/2017

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

Date of Notice Certification: 08/30/2017

API No. 47- 103 - 03208
Operator's Well No. Hoge S GRN WZ 2H
Well Pad Name: Hoge S GRN WZ

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>526113.4</u>
County: <u>Wetzel</u>		Northing: <u>4370065.4</u>
District: <u>Green</u>	Public Road Access: <u>CR 13/8</u>	
Quadrangle: <u>Center Point</u>	Generally used farm name: _____	
Watershed: <u>Fishing 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 type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><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 of personal service, the return receipt card or other postal receipt for certified mailing.

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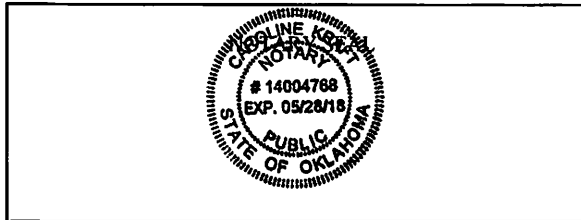
12/22/2017
WV Department of
Environmental Protection

Certification of Notice is hereby given:

THEREFORE, I Ariel Renken, 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: Ascent Resources
By: *[Signature]*
Its: Regulatory Analyst
Telephone: 405-252-7642

Address: 3501 NW 63rd Street
Oklahoma City, Oklahoma 73116
Facsimile: _____
Email: ariel.renken@ascentresources.com



Subscribed and sworn before me this 7 day of Sept, 2017.
Cassie Kraft Notary Public
My Commission Expires 05/28/18

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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**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: 8/7/2017 **Date Permit Application Filed:** 9/7/2017

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: State of WV Public Land Corp., Dept of Comm, Labor, & Environ
Address: Capitol Complex, Bldg 6, Room 525
Charleston, WV 25301
Name: WV Dept of Natural Resources Commerce Division
Address: Capitol Complex, Bldg 6, Room 525
Charleston, WV 25301
- 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: Please see attached.
Address: _____
- 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: _____

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*Please attach additional forms if necessary

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API NO. 47-103 - 03208
OPERATOR WELL NO. Hoge S GRN WZ 2H
Well Pad Name: Hoge GRN WZ

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, if any, by the secretary that 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.**

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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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Notice is hereby given by:



Well Operator: Ascent Resources - Marcellus, LLC
Telephone: 405-252-7642
Email: ariel.renken@ascentresources.com

Address: 3501 NW 63rd Street
Oklahoma City, OK 73116
Facsimile: _____

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.



Subscribed and sworn before me this 30 day of Aug, 2017.

Caroline Kraft Notary Public

My Commission Expires ~~01/23/2018~~ 05/28/18

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103-03208

**WW-6A Notice of Application
Hoge S GRN WZ 2H, 4H and 6H**

Surface Ownership				
Name	Address	City	ST	ZIP
State of WV Public Land Corp. Dept. Of Comm. LBR. & Envir. DNR	Capitol Complex, Bldg. 6, Room 525	Charleston	WV	25301 ✓
WV Dept. of Natural Resources Commerce Division	Capitol Complex, Bldg. 6, Room 525	Charleston	WV	25301 ✓

Coal Ownership				
Name	Address	City	ST	ZIP
Helen M. Dallison	28907 Shortline Hwy	Folsom	WV	26348 ✓
The State of West Virginia, Public Land Corporation, for the use and benefit of the Department of Commerce, Labor and Environmental Resources, Division of Natural Resources	Capitol Complex, Bldg 6, Room 525	Charleston	WV	25301 ✓

Water Ownership				
Name	Address	City	ST	ZIP
Richard Heimbrod	PO Box 25	Clarington	OH	43915 ✓
Russel, Paul & Carol Stackpole	PO Box 423 Dodd St	Middlebourne	WV	26149 ✓
Coastal Forest Resources	PO Box 709	Buckhannon	WV	26201 ✓
William Carl Thompson	3412 S. Weymouth Road	Medina	OH	44256 ✓
WV Division of Natural Resources	324 4th Ave	S. Charleston	WV	25303 ✓
Yellow House Sportsman Club	1522 Main St	Wellsburg	WV	26070 ✓

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.
Date of Notice: 08/07/2017 **Date Permit Application Filed:** 08/07/2017

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

HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: State of WV Public Land Corp. Dept. Of Comm. LBR. & Envir. DNR
Address: Capitol Complex, Bldg. 6, Room 525
Charleston, WV 25301

Name: WV Dept. of Natural Resources Commerce Division
Address: Capitol Complex, Bldg. 6, Room 525
Charleston, WV 25301

Notice is hereby given:

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

State: West Virginia UTM NAD 83 Easting: 526113.4
County: Wetzel Northing: 4370065.4
District: Green Public Road Access: CR 13/B
Quadrangle: Center Point Generally used farm name: _____
Watershed: Fishing Creek

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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.

Notice is hereby given by:

Well Operator: Ascent Resources - Marcellus, LLC
Address: 3501 NW 63rd Street
Oklahoma City, OK 73116
Telephone: 405-608-5544
Email: info@ascentresources.com
Facsimile: _____

Authorized Representative: Ariel Renken
Address: 3501 NW 63rd Street
Oklahoma City, OK 73116
Telephone: 405-252-7642
Email: ariel.renken@ascentresources.com
Facsimile: _____

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. ^{RECEIVED} Office of Oil and Gas 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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WV Department of
Environmental Protection
12/22/2017

WW-6A4 Notice of Intent to Drill
Hoge S GRN WZ 2H, 4H and 6H

Surface Ownership				
Name	Address	City	ST	ZIP
State of WV Public Land Corp. Dept. Of Comm. LBR. & Envir. DNR	Capitol Complex, Bldg. 6, Room 525	Charleston	WV	25301 ✓
WV Dept. of Natural Resources Commel	Capitol Complex, Bldg. 6, Room 525	Charleston	WV	25301 ✓

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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: 08/07/2017 **Date Permit Application Filed:** 09/07/2017

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: State of WV Public Land Corp., Dept. Of Comm. LBR. & Envir. DNR
Address: Capitol Complex, Bldg. 6, Room 525
Charleston, WV 25301

Name: WV Dept. of Natural Resources Commerce Division
Address: Capitol Complex, Bldg. 6, Room 525
Charleston, WV 25301

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>526113.4</u>
County:	<u>Wetzel</u>		Northing:	<u>4370065.4</u>
District:	<u>Green</u>	Public Road Access:		<u>CR 13/8</u>
Quadrangle:	<u>Center Point</u>	Generally used farm name:		<u></u>
Watershed:	<u>Fishing 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: 405-608-5544
Email: ariel.renken@ascentresources.com

Address: 3501 NW 63rd Street
Oklahoma City, OK 73116
Facsimile:

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.

RECEIVED
Office of Oil and Gas
SEP 11 2017
WV Department of
Environmental Protection
12/22/2017

103-03208

WW-6A5 Notice of Planned Operations
Hoge S GRN WZ 2H, 4H and 6H

Surface Ownership				
Name	Address	City	ST	ZIP
State of WV Public Land Corp. Dept. Of Comm. LBR. & Envir. DNR	Capitol Complex, Bldg. 6, Room 525	Charleston	WV	25301
WV Dept. of Natural Resources Commerce Division	Capitol Complex, Bldg. 6, Room 525	Charleston	WV	25301

RECEIVED
Office of Oil and Gas
SEP 11 2017
WV Department of
Environmental Protection
12/22/2017



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 23, 2015

*CK# 7157
Amt \$5150.00
Date 9/26/17*

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 site Hoge South (503) Pad, Tyler County

47-103-03208

Hoge S GRN WZ 2H
Hoge S GRN WZ 8H

Hoge S GRN WZ 4H
Hoge S GRN WZ 10H

Hoge S GRN WZ 6H RECEIVED
Office of Oil and Gas

SEP 11 2017

WV Department of
Environmental Protection

Dear Mr. Martin,

This well site will be accessed from a DOH permit 06-2014-0571 which has been transferred to Ascent Resources – Marcellus, LLC for access to the State Road. The well site is located off of Tyler County Route 13/8.

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
Ascent Resources - Marcellus, LLC.
CH, OM, D-6
File

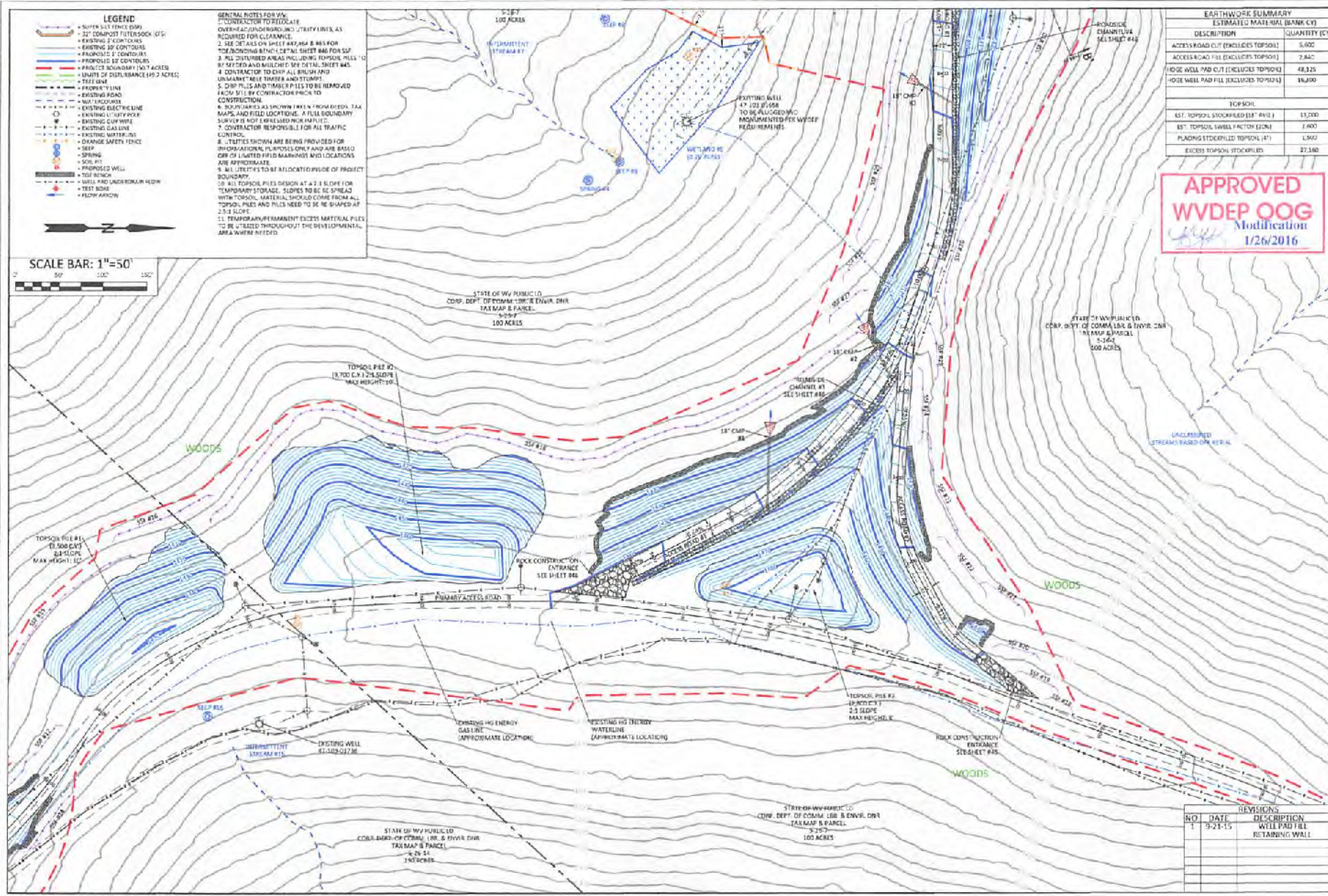
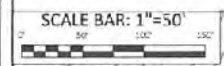
12/22/2017

LEGEND

- 32" CONDUIT FILTERSOCK (FS)
- EXISTING 2' CONTOURS
- PROPOSED 2' CONTOURS
- PROJECT BOUNDARY (100 ACRES)
- TRAIL LINE
- PROPOSED V LINE
- EXISTING ROAD
- MA V LOCATIONS
- EXISTING ELECTRIC LINE
- EXISTING UTILITY POLE
- EXISTING CUP WIRE
- EXISTING GAS LINE
- EXISTING WATERING
- DIAGNOSE SAFETY FENCE
- SEEP
- SPRING
- SOIL PIT
- PROPOSED WELL
- TEST BENCH
- WELL PAD UNDER ROCKIN HEAD
- TEST BONE
- TEMPORARY

GENERAL NOTES FOR THE CONTRACTOR TO RELOCATE OVERHEAD (OH) AND UNDERGROUND (UG) UTILITIES, AS REQUIRED FOR CLEARANCE:

- SEE DETAILS ON SHEET #47, #48 & #49 FOR THE BONDING BENCH DETAIL SHEET #48 FOR SUPPLY AND INSTALLATION OF W/ TOPSOIL PILES BY THE CONTRACTOR. SEE DETAIL SHEET #48.
- CONTRACTOR TO CRIP ALL BRUSH AND UNWANTABLE TIMBER AND STUMPS.
- CRIP PILES AND TIMBER PILES TO BE REMOVED EACH BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- CONTRACTOR TO REMOVE ALL BRUSH, T&E MAPS, AND FIELD LOCATIONS. A FULL BOUNDARY SURVEY TO BE PERFORMED PRIOR TO CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC CONTROL.
- UTILITIES LOCATIONS ARE BEING PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND ARE BASED ON THE LATEST FIELD MARKINGS AND LOCATIONS ARE APPROXIMATE.
- UTILITIES TO BE RELOCATED OUTSIDE OF PROJECT BOUNDARY.
- ALL TOPSOIL PILES DESIGN AT A 2:1 SLOPE FOR TEMPORARY STORAGE. SLOPES TO BE RE-SHAPED WITH TOPSOIL. MATERIAL SHOULD COME FROM ALL TOPSOIL PILES AND PILES NEED TO BE RE-SHAPED AT 2:1 SLOPE.
- TEMPORARY PERMANENT EXCESS MATERIAL PILES TO BE UTILIZED THROUGHOUT THE DEVELOPMENTAL AREA WHERE APPLICABLE.



EARTHWORK SUMMARY

DESCRIPTION	QUANTITY (CY)
ACCESS ROAD CUT (EXCLUDES TOPSOIL)	5,000
ACCESS ROAD FILL (EXCLUDES TOPSOIL)	7,800
HOG WEL PAD CUT (EXCLUDES TOPSOIL)	48,325
HOG WEL PAD FILL (EXCLUDES TOPSOIL)	16,300
TOPSOIL	
EST. TOPSOIL STOCKPILED (18" AVG.)	13,700
EST. TOPSOIL WASH FACTOR (22%)	1,600
PLACING STOCKPILED TOPSOIL (4")	1,560
EXCESS TOPSOIL STOCKPILED	27,360

APPROVED
WV DEP OOG
 Modification
 1/26/2016

BOARD, BENCHEK and ASSOC., INC.
 Engineering, Surveying, Construction,
 and Mining Services
 Southport, PA 15317 Phone: 724 746 1055

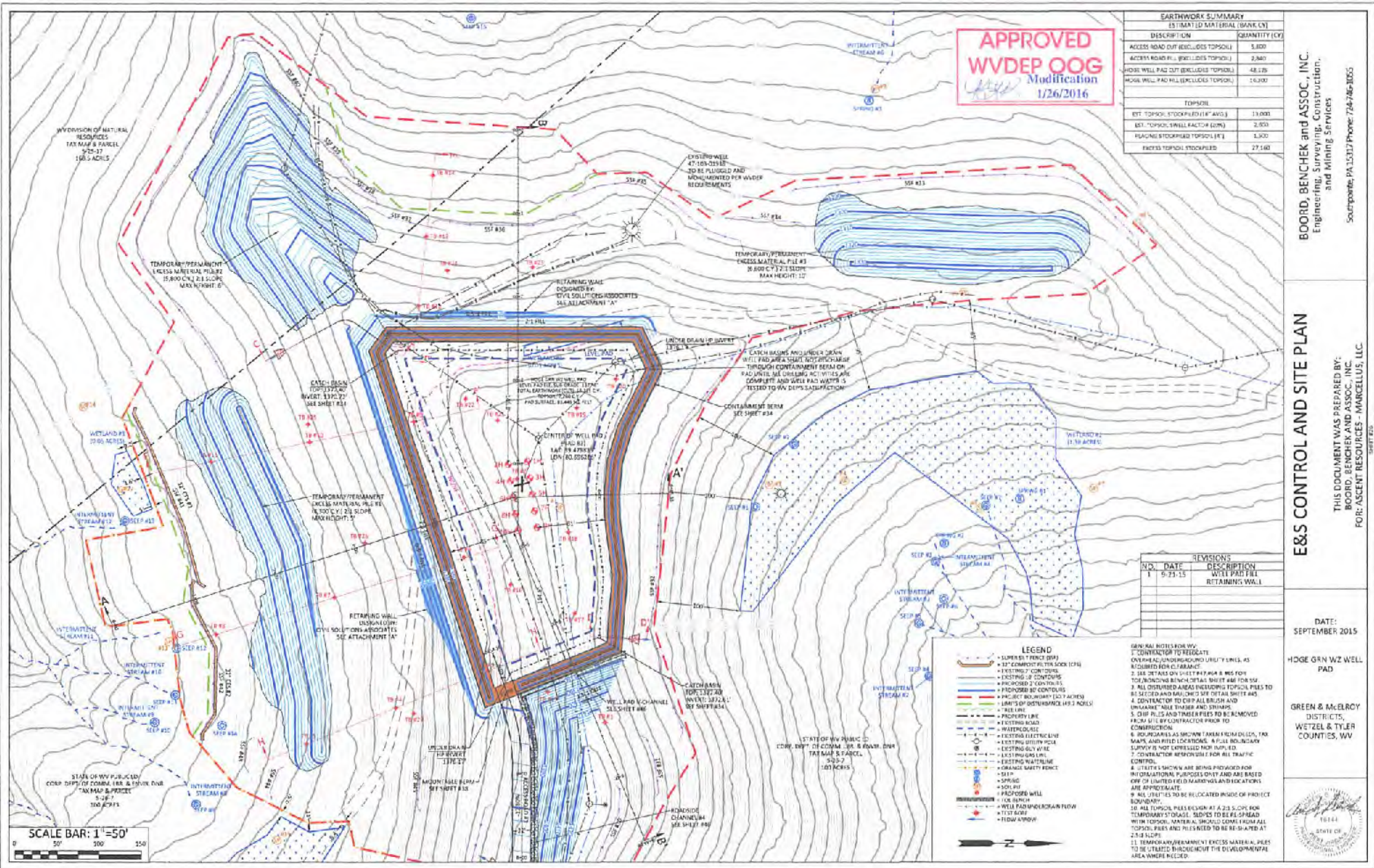
E&S CONTROL AND SITE PLAN
 THIS DOCUMENT WAS PREPARED BY:
BOARD, BENCHEK and ASSOC., INC.
 FOR: ASCENT RESOURCES - MARCELLUS, LLC.

DATE:
 SEPTEMBER 2015
 HOG GRN WZ WELL
 PAD
 GREEN & McLEROY
 DISTRICTS,
 WETZEL & TYLER
 COUNTIES, WV

REVISIONS

NO	DATE	DESCRIPTION
1	9-21-15	WELL PAD FILL RETAINING WALL





APPROVED
WV DEP OOG
 Modification
 1/26/2016

EARTHWORK SUMMARY	
DESCRIPTION	QUANTITY (CY)
ACCESS ROAD CUT (EXCLUDES TOPSOIL)	5,800
ACCESS ROAD FILL (EXCLUDES TOPSOIL)	2,800
HOSE WELL PAD CUT (EXCLUDES TOPSOIL)	48.25
HOSE WELL PAD FILL (EXCLUDES TOPSOIL)	16,200
TOPSOIL	
EST. TOPSOIL STOCKPILED (1" AVG.)	13,000
EST. TOPSOIL SPREAD (20%)	2,800
FINAL STOCKPILED TOPSOIL (1")	1,500
TOTAL TOPSOIL STOCKPILED	27,100

BOORD, BENCHEK and ASSOC., INC.
 Engineering, Surveying, Construction,
 and Mining Services
 Southpointe, PA 15317 Phone: 724-746-8055

E&S CONTROL AND SITE PLAN

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

DATE:
 SEPTEMBER 2015

HOGE GRN WZ WELL PAD

GREEN & McELROY DISTRICTS, WETZEL & TYLER COUNTIES, WV



REVISIONS		
NO.	DATE	DESCRIPTION
1	9-23-15	WELL PAD FILL RETAINING WALL

LEGEND

- SUPERSET FENCE (SWF)
- 2" CONCRETE WITH ROCK (CR)
- EXISTING 7" CONCRETE
- EXISTING 12" CONCRETE
- PROPOSED 2' CONTOURS
- PROPOSED 3' CONTOURS
- PROJECT BOUNDARY (100' WIDE)
- LIMITS OF DISTURBANCE (100' WIDE)
- FILL LINE
- PROPERTY LINE
- EXISTING ROAD
- WATERCOURSE
- EXISTING ELECTRIC LINE
- EXISTING TELEPHONE
- EXISTING GAS LINE
- EXISTING WATERLINE
- EXISTING WASTE LINE
- ORANGE SAFETY FENCE
- SPRING
- WELLS
- PROPOSED WELL
- FOR BENCH
- WELLS WITH PERMANENT FLOW
- 1" TO 2" FLOW
- FLOW ARROW

1. CONTRACTOR TO REEVALUATE OVERHEAD UNDERGROUND UTILITIES AS ACCURATE BENCH MARKS.
2. SEE DETAILS ON SHEET #17 FOR A & B'S FOR THE BENCHING BENCH DETAILS SHEET #18 FOR S&P.
3. ALL DISTURBED AREAS INCLUDING TOPSOIL PILES TO BE RESEED AND MAINTAIN SEE DETAIL SHEET #10.
4. CONTRACTOR TO CIP ALL BRUSH AND UNWANTED SILE TRUNKS AND STUMPS.
5. CIP PILES AND TRUNKS PILES TO BE REMOVED FROM SITE BY CONTRACTOR PRIOR TO CONSTRUCTION.
6. BENCH MARKS AS SHOWN FURNISH BENCH MARKS, TAX MARKS AND BENCH MARKS. A FULL BENCHING SURVEY IS NOT NECESSARY FOR THIS PROJECT.
7. CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC CONTROL.
8. UTILITY TRENCHES ARE BEING PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND ARE BASED OFF OF LIMITED FIELD MARKINGS AND LOCATIONS ARE APPROXIMATE.
9. ALL UTILITIES TO BE RELOCATED INSIDE OF PROJECT BOUNDARY.
10. ALL TOPSOIL PILES EXCEEDING AT A 2% SLOPE FOR TEMPORARY STORAGE. SLOPES TO BE RE-SLOPED WITH TOPSOIL MATERIAL SHOULD COME FROM ALL TOPSOIL PILES AND PILES NEED TO BE RE-SLOPED AT 2% SLOPE.
11. TEMPORARY PERMANENT EXCESS MATERIAL PILES TO BE UTILIZED THROUGHOUT THE DEVELOPMENTAL AREA WHERE NEEDED.

SCALE BAR: 1"=50'
 0 50 100 150