west virginia department of environmental protection

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

Earl Ray Tomblin , Governor
Randy C. Huffman , Cabinet Secretary
www.dep.wv.gov

Friday, September 09, 2016
WELL WORK PERMIT
Horizontal 6A / Horizontal 6A Well - 1

DAC ENERGY, LLC
POST OFFICE BOX 99

ALMA, WV 26320

Re: Permit approval for ROCK CAMP 1M
47-103-03158-00-00

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: ROCK CAMP 1M
Farm Name: MASON, KENNETH & JENNIFER
U.S. WELL NUMBER: 47-103-03158-00-00
Horizontal 6A / Horizontal 6A Well - 1
Date Issued: 9/9/2016

API Number: 103-03158

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.

WW-6B
(04/15)

API NO. 47- 103- 03158
OPERATOR WELL NO. Rock Camp 1M
Well Pad Name: Postlethwait/Rock Camp

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

1) Well Operator: DAC Energy, LLC. | 4944962 (Operator ID) | Wetzel (County) | Center-1 (District) | Wileyville,WV 7.5' (Quadrangle) 681

2) Operator's Well Number: Rock Camp 1M Well Pad Name: Postlethwait/Rock Camp

3) Farm Name/Surface Owner: Kenneth & Jennifer Mason Public Road Access: County Rt. 7/8 (Greathouse Hill Rd.)

4) Elevation, current ground: 1430' Elevation, proposed post-construction: 1397.10

5) Well Type (a) Gas x Oil _____ Underground Storage _____
Other _____
(b)If Gas Shallow x Deep _____
Horizontal x

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7-14-16

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Formation: Marcellus Shale TVD: 7,438' TMD: 16,142' Thickness: 50' Associated Pressures: 4000 psi

8) Proposed Total Vertical Depth: 7,438'

9) Formation at Total Vertical Depth: Marcellus Shale

10) Proposed Total Measured Depth: 16,142'

11) Proposed Horizontal Leg Length: 7,530.33'

12) Approximate Fresh Water Strata Depths: 120', 630'

13) Method to Determine Fresh Water Depths: Offsetting Water Well & Offsetting Drilling Logs

14) Approximate Saltwater Depths: 2,057'

15) Approximate Coal Seam Depths: 680', 1235'

16) Approximate Depth to Possible Void (coal mine, karst, other): N/A

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

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

API NO. 47- 103 - 03158
OPERATOR WELL NO. Rock Camp 1M
Well Pad Name: Postethwait/Rock Camp

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	26"	New	N/A	85	40'	40'	CTS
Fresh Water	16"	New	A-252	58	720'	720'	CTS (659 sks)
Coal	11 3/4"	New	AT-50	42	1,697'	1,697'	CTS (746 sks)
Intermediate	8 5/8"	New	J-55	32	2,792'	2,792'	CTS (507 sks)
Production	5 1/2"	New	P-110	20	16,117'	16,117'	[illegible]
Tubing							
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	26"	30"	.312	1,360	50	Type I/II	1.18
Fresh Water	16"	20"	.312	1,360	162	Class A	1.20
Coal	11 3/4"	14 3/4"	.333	2,480	574	Class A	1.29
Intermediate	8 5/8"	10 5/8"	.352	3,430	1323	Class A	1.55
Production	5 1/2"	7 7/8"	.361	12,640	11,701	Type 1	1.64/1.32
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

WW-6B
(10/14)

API NO. 47- 103 - 03158
OPERATOR WELL NO. Rock Camp 1M
Well Pad Name: Postlethwait/Rock Camp

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

Drill Pilot Hole on air to KOP. Switch to Synthetic Oil Based mud system and drill the lateral section of the Marcellus well. When completed, run P-110 5.5" Production casing, cement, perforate, stimulate, and produce a horizontal Marcellus Shale Well.

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

Hydraulically fracture/stimulate the Marcellus Shale by perforating, slickwater fracturing/stimulating, plugging, starting at the bottom hole section and working back towards the curve. The job should consist of 23-29 stages.

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7-14-16

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 24.3

22) Area to be disturbed for well pad only, less access road (acres): 5.3

23) Describe centralizer placement for each casing string:

Conductor: None Used
Freshwater: Every third joint and top 2 joints Coal: Every third joint and top 2 joints
Production: Every third joint in the horizontal section through the top of the curve; Every 5th joint from the top of the curve to surface.

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

*see attached sheets

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25) Proposed borehole conditioning procedures:

Freshwater: Circulate Air/Foam at T.D. of hole section for 1/2 hour to 1 hour or until hole is clean.
Coal: Circulate Air/Foam at T.D. of hole section for 1/2 hour to 1 hour or until hole is clean.
Intermediate: Circulate Air/Foam at T.D. of hole section for 1/2 hour to 1 hour or until hole is clean.
Production: Circulate Drilling Fluid through the drill string for 1 to 10 hours or until shaker screens screens are clear and drill string can be pulled freely.

*Note: Attach additional sheets as needed.

WW-9
(5/16)

API Number 47 - 103 - 03158
Operator's Well No. Rock Camp 1M

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name DAC Energy, LLC OP Code 494496257

Watershed (HUC 10) Fishing Creek Quadrangle Wileyville, WV 7.5'

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

Will a pit be used? Yes ☐ No ☑

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated Pit Wastes:

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

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Will closed loop systembe used? If so, describe: Yes

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

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

Additives to be used in drilling medium? Synvert L1; Synvert L2; Synvert Wa; Synvert Lemi; Synvert Twa; Synvert Clay; Synvert Base Fluid; Barite; Nutshell; Calcium Chloride; Calcium Carbonate; Lime; Lo-20; Gilsonite

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) N/A

-Landfill or offsite name/permit number? Wetzel County Landfill

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

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

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

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Company Official Signature Kenneth R Mason

Company Official (Typed Name) Kenneth R. Mason

Company Official Title President of Drilling Appalachian Corp, Its: Member

Subscribed and sworn before me this 13th day of July, 2016

Jami Morris

My commission expires April 7, 2020

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
JAMI MORRIS
Post Office Box 464
Reader, West Virginia 26167
My Commission Expires Apr. 7, 2020

Form WW-9

103-03158

Operator's Well No. Rock Camp 1M

Proposed Revegetation Treatment: Acres Disturbed 24.3 Prevegetation pH * Determined at time of reclamation*

Lime x (plans page 21) Tons/acre or to correct to pH 7 (see engineeredd plans page 21)

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch 2-3 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
(see page 21 of engineered plan set)		(see page 21 of engineered plan set)	

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [signature]

Comments:

Title: Oil & Gas Inspector Date: 7-14-16

Field Reviewed? (✓) Yes ( ) No

103-03158

UIC PERMIT NUMBERS

- 3412123390
- 3400922704
- 3416727401
- 3416729577
- 3412123995
- 3416729658
- 3416729685
- 4707302523

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Drilling Fluid Additives

Synvert LI

Synvert LII

Synvert Wa

Synvert Lem\

Synvert Twa

Synvert Clay

Synvert Base Fluid

Barite

Nutshell

Calcium Chloride

Calcium Carbonate

Lime

Lc-20

Gilsonite

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Fracture/Stimulation Additives

BioClear 2000 (20% DBNPA)

BR-1 (Ammonium Persulfate)

BR-7 (Enzyme Breaker)

BR-11 (Lightly Encap. Ammonium Persulfate)

CI-3 (Corrosion Inhibitor)

FR-16 (Winterized FR - Anionic)

FR-18 (Winter. High Brine FR - Anionic)

GA-7A (Crosslink Approved Gel Slurry 40-45 cP)

HC-15 (15% HCL Acid)

HC-7.5 (7.5% HCL Acid)

IA-2 (Inhibitor Aid - Potassium Iodide)

NE-2 (Microemulsion NE Surf. Anionic)

NE-3 (NE Surf. - Cationic)

SI-6 (Scale Inhibitor)

SU-3 (Complex Nano-Fluid Tech Non-Ionic)

SU-5 (Oil Recovery Enhance Surf Non-ionic)

XL-2 (Instant XL)

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103-03158

Rock Camp 1M
Well Schematic

Well:	Rock Camp 1M	**AFE #**	
Well Type:	Horizontal	**Field:**	Marcellus Shale
County / District:	Wetzel County, West Virginia, Center District	**API Well Number:**	47-103-00000
Geo Datum:	NAD 83	**GL (ft):**	1397.10'
Permitt Landing Point Lat/Lo	Lat: 39.635572; Lon: -80.624923	**KB to GL (ft):**	10'-20'
Permitted Penetration Pt:	Lat: 39.635575; Lon: -80.622685	**Objectives:**	Drill, Eval, Run Prod Csg on Marcellus Shale
Permitted TMD/TD Lat/Lon:	Lat: 39.650516; Lon: -80.643402		
TD:	16,142' MD / 7,438' TVD		

Evaluation Program	Geology (ft, TVD)	Drill Depths	Casing Depth (ft, TVD)	Hole Size	Casing and Cement	Mud	Directional & Surveys Drlg /Csg Point
		40' MD / TVD		30"	26" 0.375" Wall Conductor		
	26" Weld On Air Bowl						
	Fresh Water 120'				659 sks/140.8bbls (Cem. To Surf.)		Single Shot on bit trips
	Fresh Water 630'			20" Hole Size		Air	and / or 500' intervals
	Pitt. Coal 68(	745' MD / TVD	720'	Casing	16", 55#, A252, STC		
	26" Weld On Air Bowl						
							Single Shot on bit trips
					746 sks/171.4 bbls (Cem. To Surf.)	Air	and / or 500' intervals
	Coal 1235'			14-3/4" Hole Size			
	Red Rocks 1547'	1722' MD/TVD	1697'	Casing	11-3/4", 42#, AT-50, STC		
	Screw-On Flange with Annular Preventer						
						Air	Single Shot on bit trips
	Big Lime 2,387'				507 sks/134.5 bbls (Cem. To Surf.)		and / or 500' intervals
	Big Injun 2,473'						
	Big Injun (Base) 2,667'			10-5/8" Hole Size			
		2792' MD/TVD	2767'	Casing	8-5/8", 32#, J-55, LTC		
	Install Wellhead / BOPs (11" 5K)						
	GR Marker 2,797'						
	Gordon Stray #1 3,003'						
	Gordon Stray #2 3,126'						
	Gordon 3,231'						
	Bayard 3,481'						
						3,716' - TDpilot hol	Single Shot on bit trips
						Air	and / or 500' intervals
							for pilot hole
							Gyro Survey @ end of
							vertical hole
				7-7/8"			
							Surveys every 30' from
							KOP to LP, every 60' -
					Lead Cement: 367 sks/107.3 bbls		90' thereafter
					Tail Cement: 1475 sks/346.64 bbls		
					Cement to Intermediate Casing		
	KOP 6,483'						
							Directional
	Sonya Formation 6,919' TVD					KOP - TD	Build @ 10°/100'
	Genesee Formation 7,118' TVD					12.5 - 13.0 ppg Mud	Azimuth 317 00' 47"
	Geneseo Shale 7,197' TVD						Hold 90°
	Tully Formation 7,231' TVD						
	Hamilton 7,235' TVD						
	Marcellus Shale 7,379' TVD						
	Landing Point 7,394' TVD						
	TD 16,142' MD / 7,438' TVD				Lateral Length - 7,530.33'		
					5-1/2", 20#, P-110 4040RTC 16,117'		
					5-1/2", 20#, reamer shoe 16,117'		
					5-1/2", 20# float collar 16,097'		

103-03158

Blue Mountain Inc.
11023 Mason Dixon Highway
Burton, WV 26562
Ph: (304) 662-6486
Fax: (304) 662-6501

August 31, 2016

DAC Energy
P.O. Box 99
Alma, WV 26320

RE: **Wetzel County Hydraulic Fracturing Notice**

Dear Sir/Madam,

DAC Energy has developed a Marcellus pad (Postlethwait/Rock Camp pad) located in Wetzel County, WV. As an owner or operator of conventional natural gas wells in this area we are requesting your assistance in this matter.

Due to apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7,438 TVD) and existing conventional natural gas wells.

DAC Energy anticipates conducting hydraulic fracturing at the Postlethwait/Rock Camp pad during the fourth quarter of 2016. We have identified conventional natural gas wells operated by your company within the 500' offset (lateral distance) of our new/planned laterals. Plats for each well on this pad are attached.

We recommend that conventional well operators conduct the following activities before, during, and after fracturing operations:

1. Inspect surface equipment, prior to fracturing, to establish integrity and establish well conditions.
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas, or pressure.
3. Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead integrity.
4. Notify the OOG and DAC if any changes in water, gas production, pressure, or other anomalies are identified.

We appreciate the opportunity to work with you on this project. Please do not hesitate to contact Kaley DuCoeur through phone 304-662-6486 or at BMI@bluemtninc.com if any questions should arise. You may also contact the West Virginia Office and Gas at 304-928-0440.

Sincerely,
Blue Mountain, Inc.

Kaley DuCoeur
Environmental Scientist

103-03158

Blue Mountain Inc.
11023 Mason Dixon Highway
Burton, WV 26562
Ph: (304) 662-6486
Fax: (304) 662-6501

Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near DAC Energy hydraulic fracturing in Wetzel County, WV prior to hydraulic fracturing.

Due to the apparent presence of unique geological conditions, the potential for communication between geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7,438 TVD) and existing conventional natural gas wells.

The plan is being implemented as an additional safety measure to be utilized in conjunction with existing best management practices and emergency action plans for the site. These additional measures include pre-notification of conventional well operators of the timing and location of the hydraulic fracturing, establishment of measures conventional well operators should implement, and assurances that the OOG is notified of the timeline, as well as any issues that may arise during fracturing.

1. Communications with Conventional Well Operators

DAC Energy, using available data (WV Geological Survey, WVDEP website) has identified all known conventional wells and well operators within 500 feet of this pad and the lateral sections. A map showing these wells along with a list of the wells and operators is included in **Attachment A**.

Upon arrival of this plan, DAC Energy will notify these operators, via letter, of the hydraulic fracturing schedule for these wells. A copy of this letter is included in **Attachment B.**

The letter provides recommendations to these conventional operators to 1) increase their monitoring of their wells during that time period, 2) ensure that their well head equipment is sound, and 3) provide immediate notification to DAC Energy and the OOG in the event of any changes in their well conditions.

Specifically, the letter recommends that conventional well operators conduct the following activities during and after fracturing operations:

1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions.
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure.
3. Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead integrity.
4. Notify the OOG and DAC Energy if any changes in water, gas production, pressure, or other anomalies are identified.

2. Reporting

DAC Energy will provide information relating to the hydraulic fracturing schedule, communication with conventional operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

103-03158

Blue Mountain Inc.
11023 Mason Dixon Highway
Burton, WV 26562
Ph: (304) 662-6486
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August 31, 2016

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Sincerely,
Blue Mountain, Inc.

Kaley DuCoeur
Environmental Scientist

103-03158

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11023 Mason Dixon Highway
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Specifically, the letter recommends that conventional well operators conduct the following activities during and after fracturing operations:

1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions.
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure.
3. Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead integrity.
4. Notify the OOG and DAC Energy if any changes in water, gas production, pressure, or other anomalies are identified.

2. Reporting

DAC Energy will provide information relating to the hydraulic fracturing schedule, communication with conventional operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.

103-03158

Well ID	Prior Operator On Record	Operator - DEP
47-103-00151	Columbian Carbon Co.	Operator Unknown
47-103-00429	Arrowhead Exploration Co.	Operator Unknown
47-103-00500	Arrowhead Exploration Co.	Operator Unknown

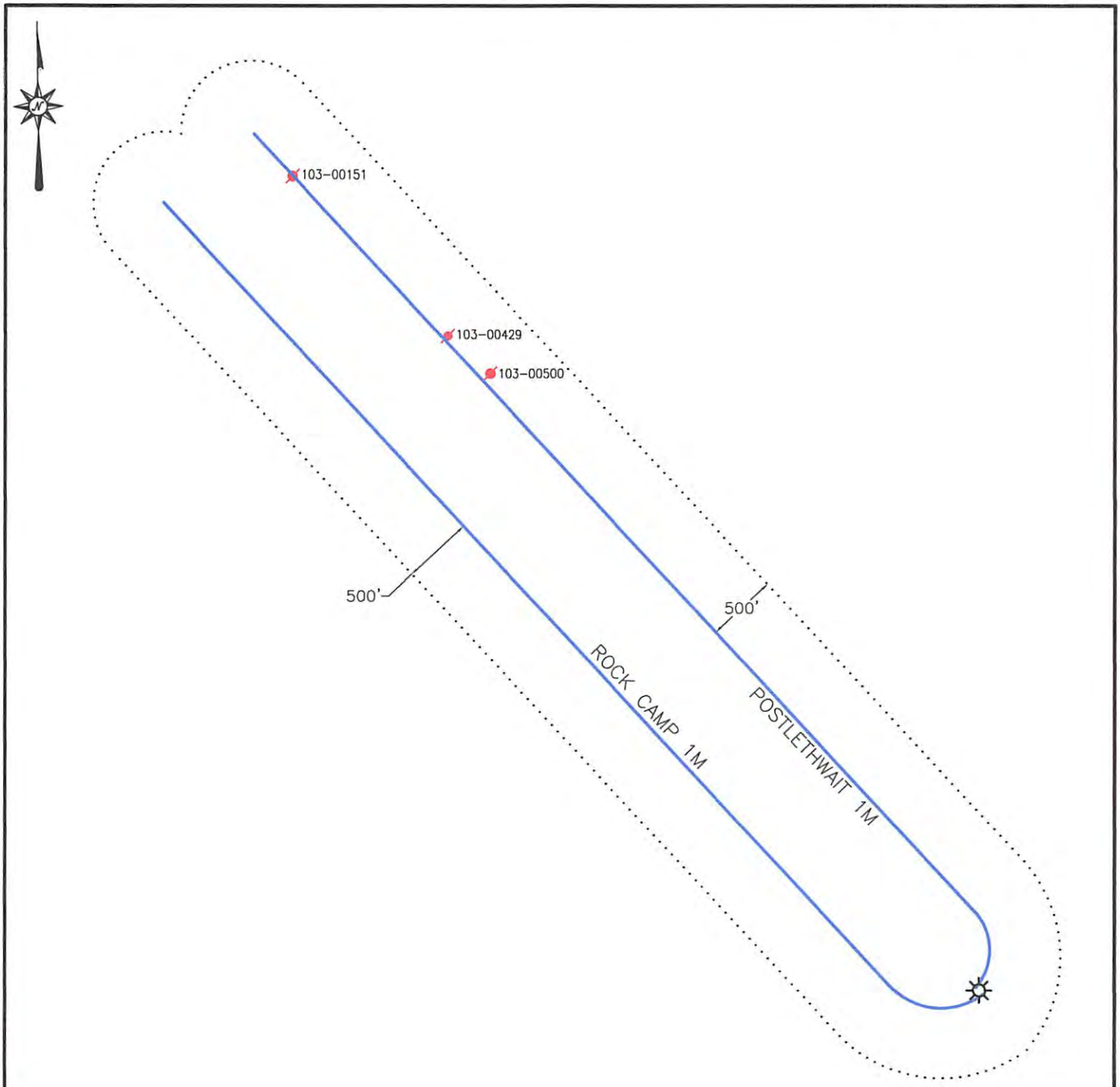
103-03158

Status	Latitude	Longitude	Vertical TD	Producing Formation
Plugged	39.648101	-80.752071	2,351'	Weir
Plugged	39.645051	-80.748089	3,118'	Gordon
Plugged	39.644326	-80.747009	3,120'	Fourth

103-03158

Producing Zones NOT Perforated

103-03158



Blue Mountain Inc.
10125 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: (304) 662-6486

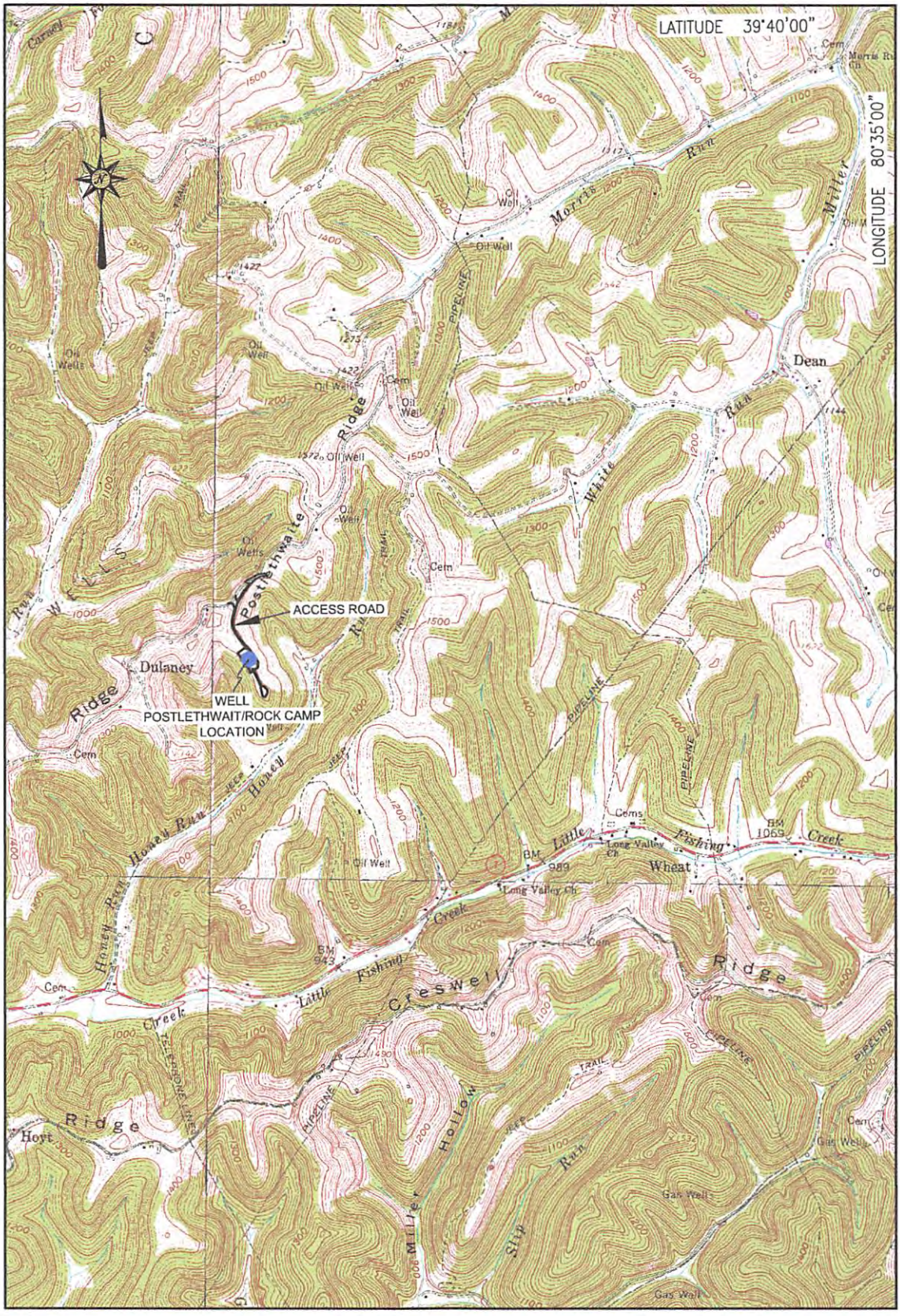
PREPARED FOR:
DAC ENERGY
P. O. BOX 99
ALMA, WV 26320

LEGEND
☼ – WELL LOCATION
– PLUGGED WELL

POSTLETHWAIT/ROCK CAMP AREA OF REVIEW MAP
WETZEL COUNTY
CENTER DISTRICT
WEST VIRGINIA

TOPO QUAD: LITTLETON, WV
SCALE: 1" = 1000'
DATE: AUGUST 24, 2016

103-03158



LOCATION MAP
AUGUST 24, 2016

Blue Mountain Inc.
10125 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: (304) 662-6486

POSTLETHWAIT/ROCK CAMP
LITTLETON QUADRANGLE
WEST VIRGINIA

SCALE 1" = 2000'

0' 2000' 4000' 6000'

BLUE MOUNTAIN ENGINEERING

103-03158

1 inch = 2,000 feet

0 1,000 2,000 4,000 Feet

USGS QUADRANGLE
LITTLETON

Draft 7-14-16

Blue Mountain Inc.

103-03158

Postlethwait 1M/Rock Camp 1M – Site Safety Plan

General Information

Well Location:

Dmt 7-14-16

- Operator: D.A.C. Energy, LLC.
- Wetzel County, WV
- Center District
- Lat: 39.635172 ; Lon: -80.622446
- Directions:
  - From New Martinsville, WV: Go East on Hwy 7 for 16.6 miles to Greathouse Hill/Postlethwait Ridge Rd (7/8), on the LEFT or NORTH side of the road. Continue on 7/8 for 1.5 miles to the entrance to the well pad on the RIGHT or Southeast side of the road at 39.638197, -80.623615.
  - From Hundred, WV: Go West on Hwy 7 for 14.7 miles to Greathouse Hill/Postlethwait Ridge Rd (7/8), on the RIGHT or NORTH side of the road. Continue on 7/8 for 1.5 miles to the entrance to the well pad on the RIGHT or Southeast side of the road at 39.638197, -80.623615.

Basic Site Safety Requirements:

- Personal Protective Equipment will be worn by all personnel at all times while on site. PPE will be defined by OSHA standard 1910.132
  - Company representatives will discuss PPE expectations at pre-spud meeting.
  - PPE required by MSDS of any chemical or substance that is on site.
- Safety meetings will be held twice a week and prior to all casing, cement, pipe trips, etc. and attendance will be logged.
- J.S.A.'s will be encouraged for all operations and required for all non-standard operations.
- A pre-spud meeting will be held prior to spudding the well. Procedures, Safety, Roles, Responsibilities, and Expectations will be discussed. The attending personnel will be company representatives, drilling contractor representatives, and the local D.E.P. inspector.
- A check in/out box will be posted at the well site entrance (muster area). All personnel will be required to sign in and sign out when entering and exiting the location.
- In case of emergency or alarm, all personnel will be required to muster at the entrance to the lease road (check in/out box). Company Representative will get a head count and compare to check-in list. Company Representative will then provide instruction as what to do next.
- No Smoking on Location.
- No unauthorized visitors on location. All visitors sign in at the sign in booth. Then, check in with the company representative.
- A copy of the Site Safety Plan along with the permit will be posted in the Dog House, Company Representatives Housing, and at the Sign in/out booth.
- M.S.D.S. for all chemicals on site will be on site and available in the doghouse and company man living quarters.

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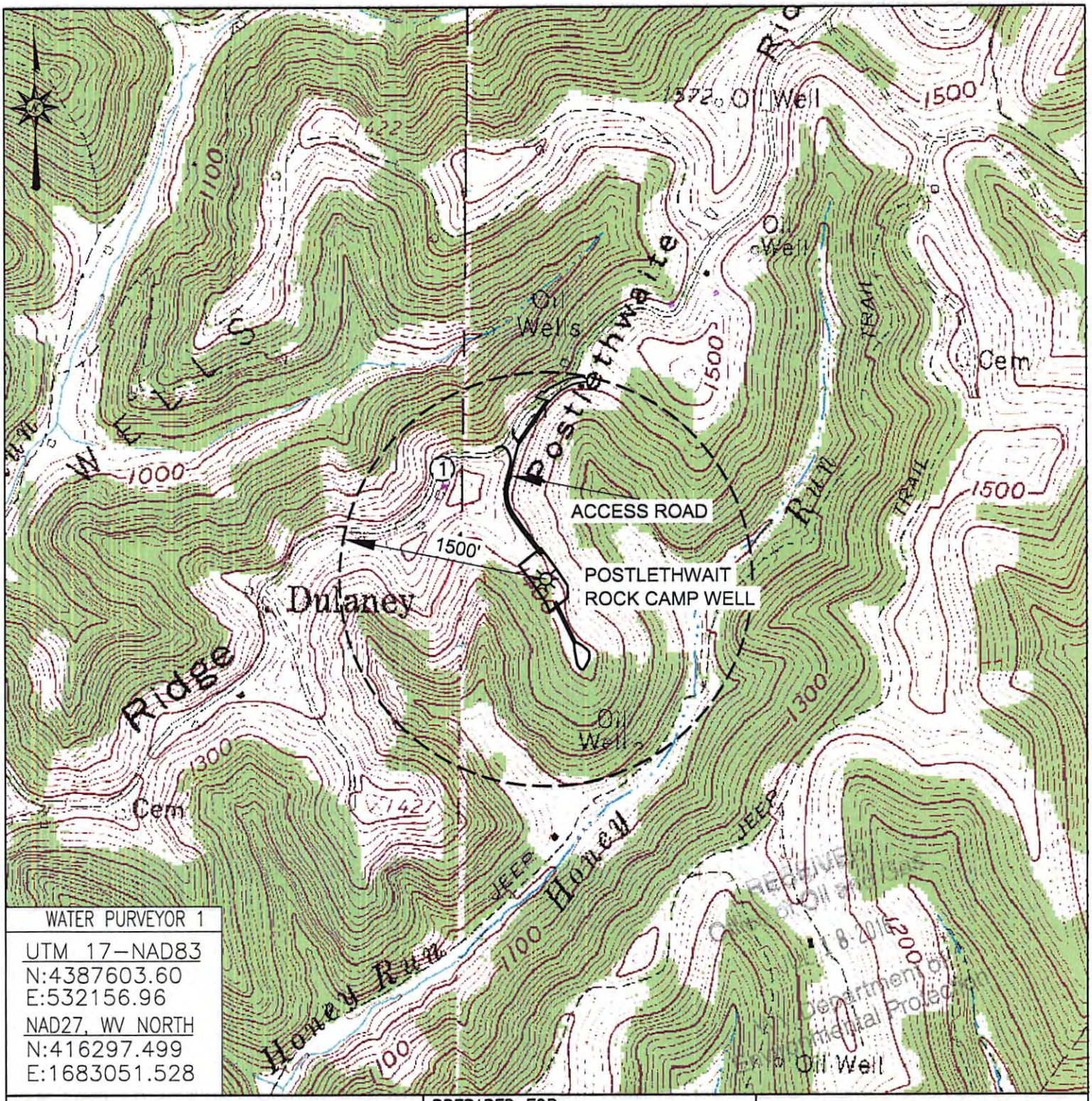
Office of Oil and Gas
JUL 18 2016
WV Department of
Environmental Protection

103-03158



WATER PURVEYOR 1

UTM 17–NAD83
N:4387603.60
E:532156.96
NAD27, WV NORTH
N:416297.499
E:1683051.528

DmH
7-14-16

Blue Mountain Inc.
11023 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: (304) 662-6486

PREPARED FOR:
DAC ENERGY, LLC
P.O. BOX 99
ALMA, WV 26320

LEGEND
(1) – POSSIBLE WATER PURVEYOR

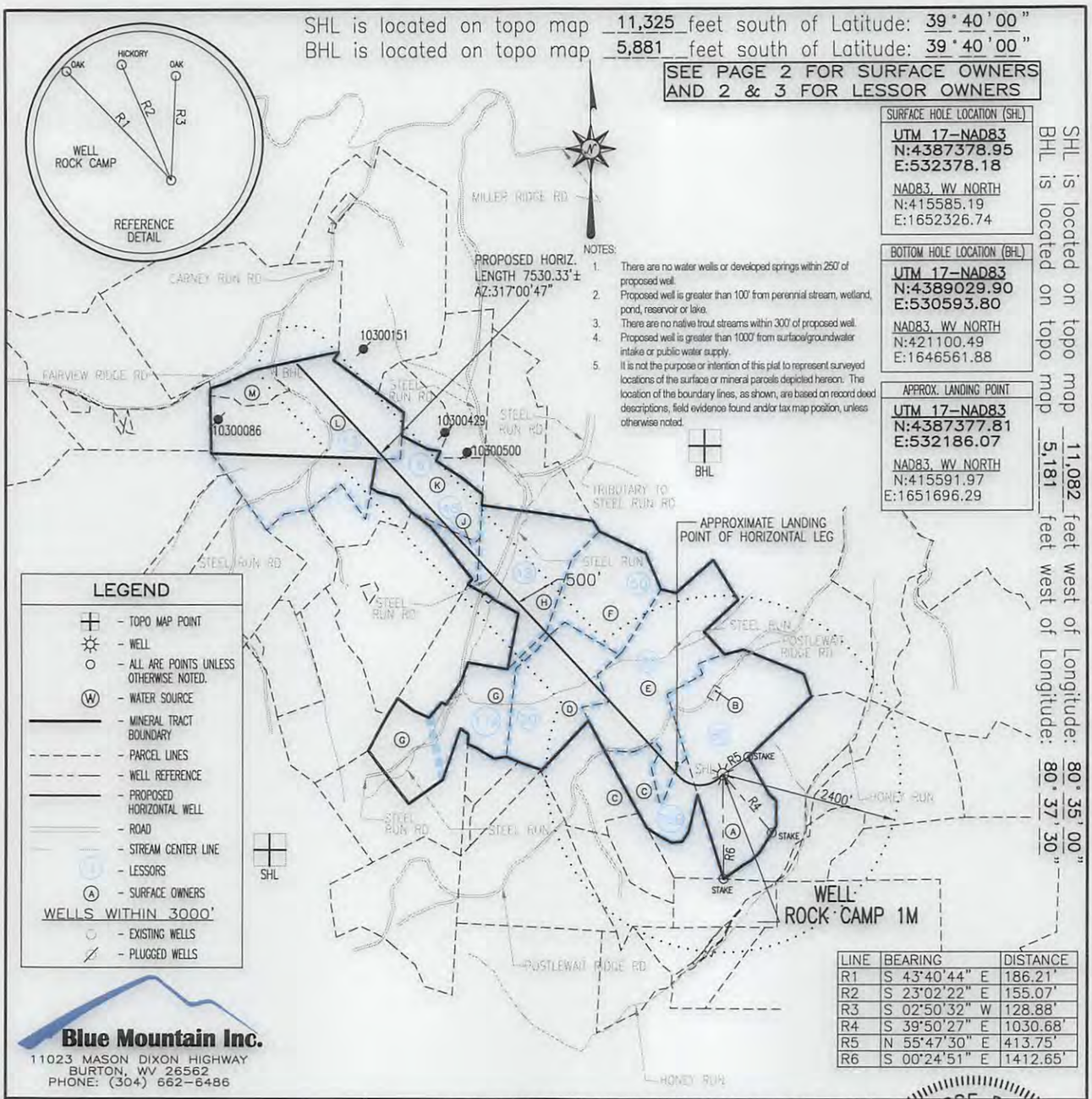
POSTLETHWAIT/ROCK CAMP WATER PURVEYOR MAP
WETZEL COUNTY
CENTER DISTRICT
WEST VIRGINIA

TOPO QUAD: LITTLETON, WV
SCALE: 1" = 1000'
DATE: JULY 1, 2016

SHL is located on topo map 11,325 feet south of Latitude: 39°40'00"
BHL is located on topo map 5,881 feet south of Latitude: 39°40'00"

SEE PAGE 2 FOR SURFACE OWNERS AND 2 & 3 FOR LESSOR OWNERS

SHL is located on topo map 11,082 feet west of Longitude: 80°35'00"
BHL is located on topo map 5,181 feet west of Longitude: 80°37'30"



NOTES:
1. There are no water wells or developed springs within 250' of proposed well.
2. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
3. There are no native trout streams within 300' of proposed well.
4. Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
5. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83
N:4387378.95
E:532378.18
NAD83, WV NORTH
N:415585.19
E:1652326.74

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83
N:4389029.90
E:530593.80
NAD83, WV NORTH
N:421100.49
E:1646561.88

APPROX. LANDING POINT
UTM 17-NAD83
N:4387377.81
E:532186.07
NAD83, WV NORTH
N:415591.97
E:1651696.29

LEGEND
- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- (W) WATER SOURCE
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE
- (1) LESSORS
- (A) SURFACE OWNERS

WELLS WITHIN 3000'
- EXISTING WELLS
- PLUGGED WELLS

LINE	BEARING	DISTANCE
R1	S 43°40'44" E	186.21'
R2	S 23°02'22" E	155.07'
R3	S 02°50'32" W	128.88'
R4	S 39°50'27" E	1030.68'
R5	N 55°47'30" E	413.75'
R6	S 00°24'51" E	1412.65'

Blue Mountain Inc.
11023 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: (304) 662-6486

FILE #: ROCK CAMP 1M
DRAWING #: ROCK CAMP 1M
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/2500
PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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]
R.P.E.: _____ L.L.S.: P.S. No. 2000

GEORGE D. SIX LICENSED No. 2000 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR
PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

DATE: AUGUST 24, 2016
OPERATOR'S WELL #: ROCK CAMP 1M
API WELL #: 47 (STATE) 103 (COUNTY) 03158 H6A (PERMIT)

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

WATERSHED: FISHING CREEK ELEVATION: 1397.1'
COUNTY/DISTRICT: WETZEL / CENTER QUADRANGLE: LITTLETON, WV 7.5'
SURFACE OWNER: KENNETH R. & JENNIFER L. MASON ACREAGE: 80.000±
OIL & GAS ROYALTY OWNER: SHIBEN ESTATES, ET AL ACREAGE: 415.384±

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 7,438± TMD: 16,142±

WELL OPERATOR DAC ENERGY DESIGNATED AGENT KENNETH R. MASON
Address P. O. BOX 99 Address P. O. BOX 99
City ALMA State WV Zip Code 26320 City ALMA State WV Zip Code 26320

ROCK CAMP 1M

2 OF 3

103-03158

	SURFACE OWNER	DIST-TM/PAR
A	KENNETH R. & JENNIFER L. MASON	1-14/28
B	KENNETH R. & JENNIFER L. MASON	1-14/27
C	HERBERT MYERS JR.	1-14/38
D	COASTAL FOREST RESOURCES CO.	1-14/53
E	JAMES HOLT	1-14/26
F	COASTAL FOREST RESOURCES CO.	1-14/17
G	EARNEST HOWARD CADLE LIVING TRUST	1-14/16
H	EARNEST H. CADLE LIVING TRUST	1-14/25
J	DAVID E. BOWERS	1-14/13.1
K	GLENN, JR. & ELEANOR T. CAIN	1-14/2
L	SAMUEL CAIN EST. & GLEN R. CAIN	1-10/46
M	THOMAS S. & VERNA L. WYKERT	1-9/13

	LESSOR OWNER
80	SHIBEN ESTATES
	LARRY GARNER
	THOMAS GARNER
	MILTON MAXWELL SHANLEY, JR.
	WV MINERALS, INC.
	BETTY JO GEARHART
	TERRY H. ABREGG
	RAMONA J. RICE
	MARY L. PEGG
75B	JACK CRIHFIELD
	NILA CRAIG
	BARBARA NORRIS
	DORIS TWYMAN
	BARBARA POSTLEWAIT
	KENNETH R. & JENNIFER L. MASON
20	TELLURIC CO.
	COASTAL LUMBER COMPANY
60	JACK L. & ARMINTA P. CRIHFIELD
	NORMAN C. & DORIS TWYMAN
	JAMES R. & NILA CRAIG
	CAROLTON G. & BARBARA NORRIS
	BARBARA POSTLEWAIT
	KATHELEEN R. YOUNG
	VIVIAN LEE YOUNG
	PATSY Y. WHARTON
	ROBERT L. BUSCH
	CHRISTINA L. BUSCH
	LAWRENCE R. YOUNG, JR.
	MARY JO PRICE
	GEORGE LEMOYNE HORNER
	BARBARA ANN SHUMAN
	MARTHA ARRICK
	SHARON HENTHORN
	ROBERT E. & LINDA HIX
	WILLIAM & PAMELA FRANCIK
	THOMAS LACOBONI

SURFACE HOLE LOCATION (SHL)
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N:4387378.95
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NAD83, WV NORTH
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Blue Mountain Inc.
11023 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: (304) 662-6486

AUGUST 24, 2016

ROCK CAMP 1M

103-03158

3 OF 3

	LESSOR OWNER
50	LINDA D. ELIAS
	GEORGE TERRACE CAWTHORNE
	JACK DALE CAWTHORNE
	DENNIS R. CAWTHORNE
	LORI J. DECKER
	BILLIE K. SNYDER
	PATSY L. HALL
	MICHAEL MCBEE
	KELLY S. HALL
	LARRY LEMASTER
	GRETCHEN LEMASTER
	ROBERT LEMASTER
	DAVID LEMASTER
	BEATRICE WEST
	TREVA SEEPE
	KAREN MILLER
	REGINA WIGAL
	LINDA EVERSON
	FRANKIE MCKENNA
	MANSFIELD ELMORE
	VELMA LOWE
	SANDRA MATTHEWS
	DANIEL LOWE
	NANCY HALPERN
	KAREN DAGGETT
	JOYCE MURPHY
	DAVID LOWE
	DAC
	YVONNE S. POSKIN
	VIRGINA L. JONES
	KATHRYN FRAME
	LYLE WINLAND
	KAY PRICE
	SHARON BURTON
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	DOUGLAS LOWE
17A	TELLURIC COMPANY
	WACO OIL & GAS COMPANY
18	TELLURIC COMPANY
	EARNEST CADLE
48	FLAME DUO, INC.
	DAVID BOWYER

	LESSOR OWNER
6	ROCK CAMP OIL & GAS COMPANY
	CLYDE EUGENE SCHRADER
	SHIBEN ESTATES
	MELINDA DEBNER
	GLENN CAIN, JR.
13	TELLURIC COMPANY
	GLEN CAIN, JR.
	DAC
	MARK CLARK
	MICHAEL CLARK
	MARISSA FOLMAR
	DORIS MASTERS
	SHELBY CAIN
	WILDA CAIN
	HILBERT PYLES
	WILBUR & MARY WADE
	LEAH BENNET
	DANNEHL THOMPSON
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	VAREDA DAILEY
	CLYDE EUGENE SCHRADER
	ARTHUR CAIN
	JOANNE K. DOBECK
	PHILLIP D. DOBECK
	FLOYD "JACKIE" DWAIN CAIN

AUGUST 24, 2016

Blue Mountain Inc.
11023 MASON DIXON HIGHWAY
BURTON, WV 26562
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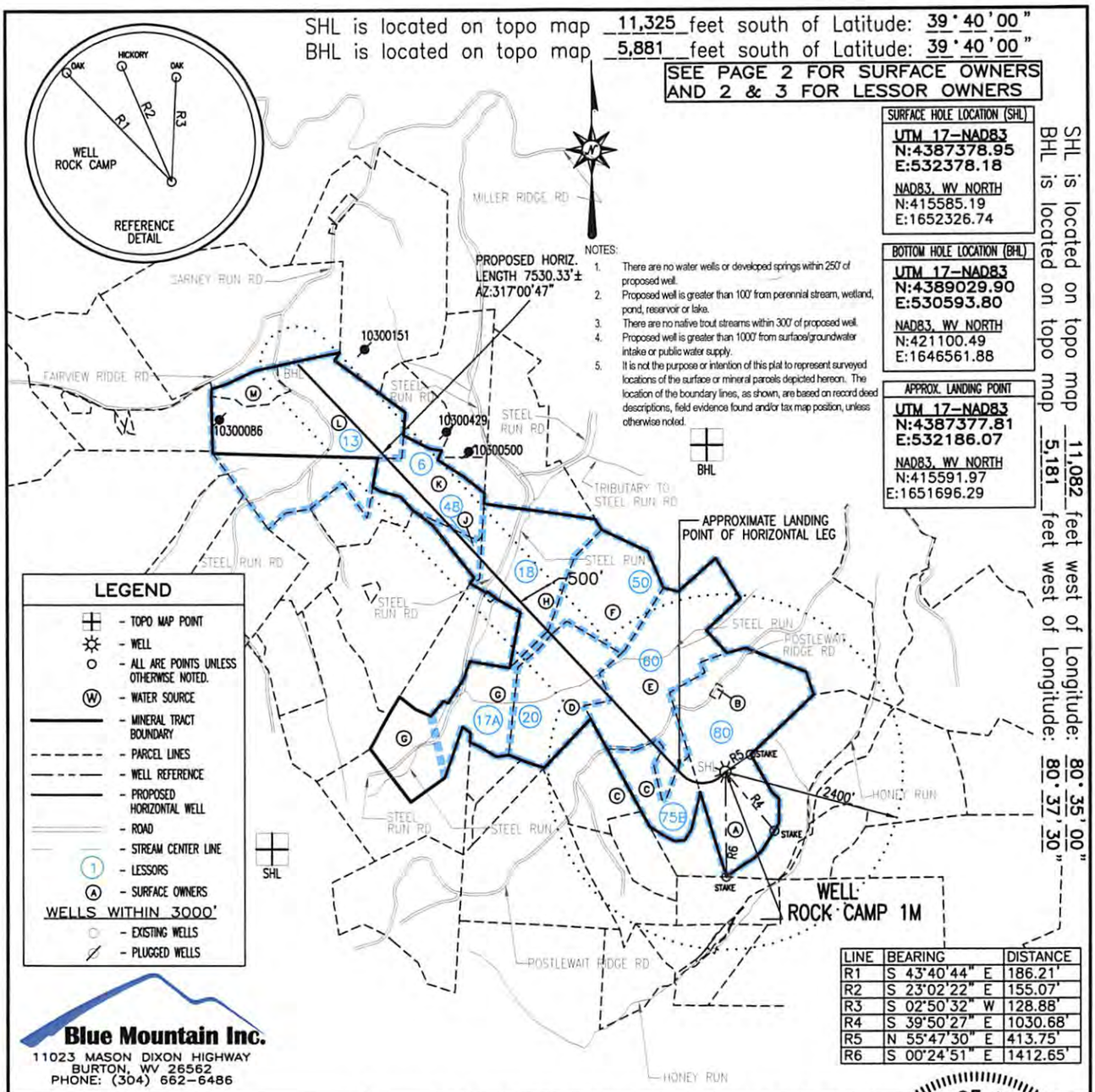

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FILE #: ROCK CAMP 1M
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Signed: George D. Six
R.P.E.: L.L.S.: P.S. No. 2000

GEORGE D. SIX LICENSED No. 2000 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

PLACE SEAL HERE

RECEIVED
Office of Oil and Gas
AUG 26 2016
WV Department of Environmental Protection

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

DATE: AUGUST 24, 2016
OPERATOR'S WELL #: ROCK CAMP 1M
API WELL #: 47 STATE 103 COUNTY 03158 #6A PERMIT

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

WATERSHED: FISHING CREEK ELEVATION: 1397.1'
COUNTY/DISTRICT: WETZEL / CENTER QUADRANGLE: LITTLETON, WV 7.5'
SURFACE OWNER: KENNETH R. & JENNIFER L. MASON ACREAGE: 80.000±
OIL & GAS ROYALTY OWNER: SHIBEN ESTATES, ET AL ACREAGE: 415.384±

DRILL [X] CONVERT [ ] DRILL DEEPER [ ] REDRILL [ ] FRACTURE OR STIMULATE [X]
PLUG OFF OLD FORMATION [ ] PERFORATE NEW FORMATION [ ] PLUG & ABANDON [ ]
CLEAN OUT & REPLUG [ ] OTHER CHANGE [ ] (SPECIFY):

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 7,438± TMD: 16,142±

WELL OPERATOR DAC ENERGY DESIGNATED AGENT KENNETH R. MASON
Address P. O. BOX 99 Address P. O. BOX 99
City ALMA State WV Zip Code 26320 City ALMA State WV Zip Code 26320

ROCK CAMP 1M

3 OF 3

103-03158 H6A

	LESSOR OWNER
50	LINDA D. ELIAS
	GEORGE TERRACE CAWTHORNE
	JACK DALE CAWTHORNE
	DENNIS R. CAWTHORNE
	LORI J. DECKER
	BILLIE K. SNYDER
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	ROBERT LEMASTER
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	TREVA SEEPE
	KAREN MILLER
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	DANIEL LOWE
	NANCY HALPERN
	KAREN DAGGETT
	JOYCE MURPHY
	DAVID LOWE
	DAC
	YVONNE S. POSKIN
	VIRGINA L. JONES
	KATHRYN FRAME
	LYLE WINLAND
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	FLOYD "JACKIE" DWAIN CAIN

RECEIVED
Office of Oil and Gas
AUG 26 2016
WV Department of
Environmental Protection

AUGUST 24, 2016

Blue Mountain Inc.
11023 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: (304) 662-6486

ROCK CAMP 1M

103-03158

2 OF 3

	SURFACE OWNER	DIST-TM/PAR
A	KENNETH R. & JENNIFER L. MASON	1-14/28
B	KENNETH R. & JENNIFER L. MASON	1-14/27
C	HERBERT MYERS JR.	1-14/38
D	COASTAL FOREST RESOURCES CO.	1-14/53
E	JAMES HOLT	1-14/26
F	COASTAL FOREST RESOURCES CO.	1-14/17
G	EARNEST HOWARD CADLE LIVING TRUST	1-14/16
H	EARNEST H. CADLE LIVING TRUST	1-14/25
J	DAVID E. BOWERS	1-14/13.1
K	GLENN, JR. & ELEANOR T. CAIN	1-14/2
L	SAMUEL CAIN EST. & GLEN R. CAIN	1-10/46
M	THOMAS S. & VERNA L. WYKERT	1-9/13

	LESSOR OWNER
80	SHIBEN ESTATES
	LARRY GARNER
	THOMAS GARNER
	MILTON MAXWELL SHANLEY, JR.
	WV MINERALS, INC.
	BETTY JO GEARHART
	TERRY H. ABREGG
	RAMONA J. RICE
	MARY L. PEGG
75B	JACK CRIHFIELD
	NILA CRAIG
	BARBARA NORRIS
	DORIS TWYMAN
	BARBARA POSTLEWAIT
	KENNETH R. & JENNIFER L. MASON
20	TELLURIC CO.
	COASTAL LUMBER COMPANY
60	JACK L. & ARMINTA P. CRIHFIELD
	NORMAN C. & DORIS TWYMAN
	JAMES R. & NILA CRAIG
	CAROLTON G. & BARBARA NORRIS
	BARBARA POSTLEWAIT
	KATHELEEN R. YOUNG
	VIVIAN LEE YOUNG
	PATSY Y. WHARTON
	ROBERT L. BUSCH
	CHRISTINA L. BUSCH
	LAWRENCE R. YOUNG, JR.
	MARY JO PRICE
	GEORGE LEMOYNE HORNER
	BARBARA ANN SHUMAN
	MARTHA ARRICK
	SHARON HENTHORN
	ROBERT E. & LINDA HIX
	WILLIAM & PAMELA FRANCIK
	THOMAS LACOBONI

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83
N:4387378.95
E:532378.18
NAD83, WV NORTH
N:415585.19
E:1652326.74

APPROX. LANDING POINT
UTM 17-NAD83
N:4387377.81
E:532186.07
NAD83, WV NORTH
N:415591.97
E:1651696.29

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83
N:4389029.90
E:530593.80
NAD83, WV NORTH
N:421100.49
E:1646561.88

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Blue Mountain Inc.
11023 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: (304) 662-6486

AUGUST 24, 2016

STEPTOE & JOHNSON PLLC
ATTORNEYS AT LAW

400 White Oaks Boulevard
Bridgeport, WV 26330
(304) 933-8000 (304) 933-8183 Fax
www.steptoe-johnson.com

Writer's Contact Information
(304) 933-8133
Marsha.Hudkins@steptoe-johnson.com

December 17, 2014

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304

Re: Well No.:_____
Operator: Drilling Appalachian Corporation

Ownership by Earnest H. Cadle, et al. of the **oil and gas** in place within and underlying a tract or parcel of land containing 51 3/16 acres, more or less, situate in Center District, Wetzel County, West Virginia, **(AMI Tract No. 42) (Tax Map 13, Parcel 10 (Surface Designation)) REVISED**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of September 26, 2014, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in

Heirs, Successors and/or Assigns of Roberta White, deceased
Priscilla L. Stephens
Freda Gotscel
Alma Molesky
Harold Delaney
Bertha Cain
Heirs, Successors and/or Assigns of Gaynelle V. Livingston
Wilbert McCullough
Brown Earl Teagarden
Gerald Ray Teagarden, Jr.
Ralph Lee Teagarden
Neva Mae Wharton
Margaret Ethel Smith
Elvina Morris Hoff

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Lawrence Wayne Sampson
Elvy Cain Whaley
Hilbert Pyles
Marilyn L. Wade
Wilber L. Wade
Dannehl Thompson
Leah Bennett
Danita Swofford
Lynette Bolton Broadrick
Della Montgomery Cain
Robert Dale Cain
Clyde Eugene Schrader
Heirs, Successors and/or Assigns of Rhoda Cain, deceased
Rick Allen Hudson
Arthur Cain
Norman Williams
Pauline Huggins
Marlene Graham
Vereda Daily
Wilma Dobeck
Jackie Dwein Cain
Clarence Cain
Ruby Hamil
Virginia Miller, daughter and heir of Lillian P. Cain, deceased
Pansy Farmer
Mildred Sterling
Genova Sponaugle
Linda Lou Tennant
Sharon Sue Thomas
Marvin Miller
Dean W. Miller
Connie White
Velma Ruth Hartzell
Freddy Cain
Edith Keyoski
Mable Ruth Lilley
Vivian A. Cox
Sharon D. Marsh
Danny Jo Marsh, Jr.
Samantha Cooper
Everett Efaw
Charles Efaw
Edith F. Pickens
Clifford Miller
John F. Miller
Ruth Cole Wisecarver

Suzanne Cole
Marcia F. Cole
Earnest H. Cadle

subject to the qualifications and limitations contained in that certain title opinion dated December 17, 2014.

Very truly yours,

STEPTOE & JOHNSON PLLC

By: _____
Marsha K. Hudkins, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation

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Environmental Protection

SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by Clyde Eugene Schrader, et al. of the **oil and gas** in place within and underlying a tract or parcel of land containing 23-1/4 acres, more or less, situate in Center District, Wetzel County, West Virginia (**Western AMI Tract No. 6) (Map 14, Parcel No. 2) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of May 19, 2014, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in:

Clyde Eugene Schrader;
Shiben Estates, Inc.;
Melinda Debner;
Rock Camp Oil Company; and
Glenn Cain, Jr. and Eleanor T. Cain.

All subject to the qualifications and limitations contained in that certain title opinion dated March 17, 2015.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckley, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8541396

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SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by Floyd D. Cain, et al. of the **oil and gas** in place within and underlying a tract or parcel of land containing 74-1/2 acres, more or less, situate in Center District, Wetzel County, West Virginia (**Western AMI Tract No. 7) (Map 14, Parcel No. 13) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of May 19, 2014, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in:

Floyd D. Cain;
Shiben Estates, Inc.;
Melinda Debner; and
Rock Camp Oil Company.

All subject to the qualifications and limitations contained in that certain title opinion dated March 24, 2015.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckley, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8524848

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SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by Clyde Eugene Schrader, et al. of the **oil and gas** in place within and underlying a tract or parcel of land containing approximately 50 acres, more or less, situate in Center District, Wetzel County, West Virginia (**Western AMI Tract No. 7A) (Map 14, Parcel Nos. 20 and 21 AND Map 10, Parcel 47) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of May 19, 2014, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in:

Clyde Eugene Schrader;
Shiben Estates, Inc.;
Melinda Debner; and
Rock Camp Oil Company.

All subject to the qualifications and limitations contained in that certain title opinion dated February 26, 2015.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckley, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8542908

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SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by Floyd D. Cain, et al. of the **oil and gas** in place within and underlying a tract or parcel of land containing 16-1/8 acres, more or less, situate in Center District, Wetzel County, West Virginia **(Western AMI Tract No. 7B) (Map 14, Parcel No. 11) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of May 19, 2014, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in:

Floyd D. Cain;
Shiben Estates, Inc.;
Melinda Debner; and
Rock Camp Oil Company.

All subject to the qualifications and limitations contained in that certain title opinion dated March 18, 2015.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckley, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8543259

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Spilman Center | 300 Kanawha Boulevard, East | Post Office Box 273 | Charleston, West Virginia 25321-0273
www.spilmanlaw.com | 304.340.3800 | 304.340.3801 fax
West Virginia | North Carolina | Pennsylvania | Virginia

SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by Floyd D. Cain, et al. of the **oil and gas** in place within and underlying a tract or parcel of land containing 16 acres, more or less, situate in Center District, Wetzel County, West Virginia **(Western AMI Tract No. 7C) (Map 14, Parcel No. 12) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of May 19, 2014, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in:

Floyd D. Cain;
Shiben Estates, Inc.;
Melinda Debner; and
Rock Camp Oil Company.

All subject to the qualifications and limitations contained in that certain title opinion dated March 24, 2015.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckley, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8543418

SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by Glenn Cain, Jr., et al. of the **oil and gas** in place within and underlying a tract or parcel of land containing 23.25 acres, more or less, situate in Center District, Wetzel County, West Virginia (**Western AMI Tract No. 13) (Map 14, Parcel No. 1 AND Map 10, Parcel 46) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of July 7, 2014, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in:

Glenn Cain, Jr.;
Heirs, Devisees or Assigns of Rhoda Cain;
Arthur Cain;
Jackie Dewayne Cain, heirs, devisees or assigns;
Clyde Eugene Schrader;
Edith M. Clark or Heirs;
David L. Montgomery or Heirs;
Norman Williams;
Pauline Huggins;
Marline Graham;
Rich Allen Hudson; and
Vereda Dailey.

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All subject to the qualifications and limitations contained in that certain title opinion dated February 20, 2015.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckley, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8543445

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SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by Telluric Company, et al. of the **oil and gas** in place within and underlying a tract or parcel of land containing 23 acres, more or less, situate in Center District, Wetzel County, West Virginia **(Western AMI Tract No. 17A) (Map 14, Parcel No. 16) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of May 28, 2014, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in:

Telluric Company;
Oxy USA, INC.;
BP Mineral Holdings II, LLC; and
Somerset Minerals, LP.

All subject to the qualifications and limitations contained in that certain title opinion dated January 26, 2015.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckley, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8543527

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SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by Earnest Howard Cadle of the **oil and gas** in place within and underlying a tract or parcel of land containing 20 acres, more or less, situate in Center District, Wetzel County, West Virginia (**Western AMI Tract No. 17B) (Map 14, Parcel No. 16) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of June 4, 2014, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in Earnest Howard Cadle, as Trustee of the Living Trust of Earnest Howard Cadle, subject to the qualifications and limitations contained in that certain title opinion dated July 20, 2015.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckley, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8543575

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SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by Earnest Cadle, et al. of the **oil and gas** in place within and underlying a tract or parcel of land containing 44 acres, more or less, situate in Center District, Wetzel County, West Virginia (**Western AMI Tract No. 18) (Map 14, Parcel Nos. 25 and 25.1) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of June 20, 2014, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in:

Earnest Cadle;
Oxy USA, Inc.;
BP Mineral Holdings II, LLC; and
Somerset Minerals, LP.

All subject to the qualifications and limitations contained in that certain title opinion dated March 4, 2015.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckley, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8543600

SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by Coastal Forest Resources Company, et al. of the **oil and gas** in place within and underlying a tract or parcel of land containing 40 acres, more or less, situate in Center District, Wetzel County, West Virginia (**Western AMI Tract No. 20) (Map 14, Parcel No. 53) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of May 6, 2014, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in Coastal Forest Resources Company and Telluric Company, subject to the qualifications and limitations contained in that certain title opinion dated April 23, 2015.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckley, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8543746

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SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by Charles Rice, et al. of the **oil and gas** in place within and underlying a tract or parcel of land containing 59 acres, more or less, situate in Center District, Wetzel County, West Virginia (**Western AMI Tract No. 28) (Map 14, Parcel No. 35) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of June 23, 2014, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in:

Charles Rice;
Dorothy R. Hillman;
Barbara A. Hahnfeld-Ross;
Catherine M. Rice;
Robert A. Rice;
George L. McElroy Heirs;
Roy G. Barbe Heirs;
Hazel Barbe Heirs;
Wells Gorman;
Kristi Anderson;
Russell A. Earl;
Richard Earl;
Robert Joseph Hurd, Jr.;
Greta Kristen Rush;
Walter Roswell Hurd;

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Nancy Ingrid Sampson;
Jonathan Peter Hurd;
Edward Charles Wells Hurd;
Dorothy Gray Hurd;
Clifford Workman;
William Workman; and
Joseph Cooper.

All subject to the qualifications and limitations contained in that certain title opinion dated February 4, 2015.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckley, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8543762

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SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by James E. Wykert, et al. of the **oil and gas** in place within and underlying a tract or parcel of land containing 135 acres, more or less, situate in Center District, Wetzel County, West Virginia **(Western AMI Tract No. 40) (Map 13, Parcel No. 5) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of May 3, 2014, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in:

James E. Wykert;
Lewis N. Wykert, Jr. and Diann L. Wykert; and
Shiben Estates, Inc.

All subject to the qualifications and limitations contained in that certain title opinion dated March 3, 2015.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckley, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8543787

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SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by Oxy USA, Inc., et al. of the **oil and gas** in place within and underlying a tract or parcel of land containing 52.75 acres, more or less, situate in Center District, Wetzel County, West Virginia (**Western AMI Tract No. 41) (Map 13, Parcel No. 9) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of April 10, 2014, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in:

Oxy USA, Inc.;
BP Mineral Holdings II, LLC; and
Somerset Minerals, LP.

All subject to the qualifications and limitations contained in that certain title opinion dated November 25, 2014.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckley, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8543848

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SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by David Bowyer, et al. of the **oil and gas** in place within and underlying a tract or parcel of land containing 4.25 acres, more or less, situate in Center District, Wetzel County, West Virginia (**Western AMI Tract No. 48**) **(Map 14, Parcel No. 13.1) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of July 1, 2014, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in David Bowyer and Flame Duo, Inc., subject to the qualifications and limitations contained in that certain title opinion dated February 3, 2016.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckley, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8544097

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Office of Oil and Gas
JUL 18 2016
WV Department of
Environmental Protection

SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by Jehu Lemasters, et al. of the **oil and gas** in place within and underlying a tract or parcel of land containing 36 acres, more or less, situate in Center District, Wetzel County, West Virginia (**Western AMI Tract No. 50) (Map 14, Parcel No. 17) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of October 20, 2014, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in:

Jehu Lemasters;
Sharon L. Burton;
Thelma Nell Palmer;
Michelle C. Sherwood
Glenn Fair Palmer Estate, including Daria Felice Palmer Brooks, Christopher Fell Palmer, Lisa Marian Palmer Beers and Anita Louise Palmer Croghan;
Lura E. Anderson Unknown Devisees, Heirs, Successors or Assigns;
Bell Postlethwait Unknown Devisees, Heirs, Successors or Assigns; and
E. E. Stewart Unknown Devisees, Heirs, Successors or Assigns.

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Environmental Protection

All subject to the qualifications and limitations contained in that certain title opinion dated April 21, 2015.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckley, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8544201

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Office of Oil and Gas
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WV Department of
Environmental Protection

SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by Judith E. Steeb, et al. of the **oil and gas** in place within and underlying a tract or parcel of land containing 8.1 acres, more or less, situate in Center District, Wetzel County, West Virginia (**Western AMI Tract No. 51) (Map 14, Parcel No. 54) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of June 16, 2014, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in Judith E. Steeb and John B. Elton, subject to the qualifications and limitations contained in that certain title opinion dated August 12, 2015.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckley, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8544247

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WV Department of
Environmental Protection

SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by Charles Rice, Jr., et al. of the **oil and gas** in place within and underlying a tract or parcel of land containing 2 Acres 27 Square Rods, more or less, situate in Center District, Wetzel County, West Virginia (**Western AMI Tract No. 52) (Map 14, Parcel No. 22) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of June 16, 2014, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in:

Charles Rice, Jr.;
Dorothy R. Hillman, heirs or assigns;
Barbara A. Hahnfeld-Ross;
Catherine M. Rice;
Robert A. Rice;
Lester McElroy Heirs;
George L. McElroy Heirs;
Roy G. Barbe Heirs;
Hazel Barbe Heirs;
Wells Gorman;
Kristi Anderson;
Russell A. Earl;
Richard Earl;
Robert Joseph Hurd, Jr.;
Greta Kristen Rush;

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Walter Roswell Hurd;
Nancy Ingrid Sampson;
Jonathan Peter Hurd;
Edward Charles Wells Hurd;
Dorothy Gray Hurd;
Clifford Workman;
William Workman; and
Joseph Cooper.

All subject to the qualifications and limitations contained in that certain title opinion dated August 12, 2015.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckley, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8595886

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Office of Oil and Gas
JUL 18 2016
WV Department of
Environmental Protection

SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by Reita Hall, et al. of the **oil and gas** in place within and underlying a tract or parcel of land containing 8 acres 16 square poles, more or less, situate in Center District, Wetzel County, West Virginia (**Western AMI Tract No. 53) (Map 14, Parcel No. 55) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of June 16, 2014, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in Reita Hall and Mary Roselynn Lee, subject to the qualifications and limitations contained in that certain title opinion dated August 11, 2015.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckley, a Member

RECEIVED
Office of Oil and Gas
JUL 18 2016
WV Department of
Environmental Protection

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8544261

SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by Shiben Estates, Inc., et al. of the **oil and gas** in place within and underlying a tract or parcel of land containing 33 acres, more or less, situate in Center District, Wetzel County, West Virginia **(Western AMI Tract No. 55) (Map 14, Parcel No. 24) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of September 1, 2014, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in:

Shiben Estates, Inc.;
Sherrill Wilson or Heirs;
Devisees of Sammie Dell Zugaro;
Sidney Wilson or Heirs;
Lois Asply or Heirs;
D. Joan Martino or Heirs;
Georgia I. Cunningham;
Clarence Yeater, Sr. or Heirs;
Archie Leo Yeater or Heirs;
Agnes Yeater Straight or Heirs;
Willa L. Yeater or Heirs;
Elma Yeater Wilkens or Heirs;
Genevieve Yeater Davis or Heirs;
Doris Jean Yeater Otto or Heirs;
Elizabeth Louise Yeater Moran or Heirs;

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William Leo Yeater or Heirs;
Larry W. Yeater;
The William J. Vest Trust Agreement dated July 16, 2001, Larry W. Yeater, Trustee;
Mrs. Alton Paul Yeater and the children of Alton Paul Yeater, including Ruth Ann Yeater and David Yeater;
Bessie O. Williams Heirs;
Carl R. Yeater or Heirs;
Roberta Blake Lowe;
Catherine Lowe Kline or Heirs;
Mabel Quigley or Heirs;
Karen Yeater Jones;
Allen L. Yeater;
Rachel A. Yeater;
Trustee under a certain Trust Agreement dated January 30, 1999, by and between Harold L. Yeater and Sarah J. Yeater;
Ralph Yeater or Heirs;
Gloria Miller or Heirs;
Jenny Miller or Heirs;
Mayne Yeater or Heirs;
Leonard O. Haberbosch;
Sharon L. Smith;
Patricia A. Gulutz;
Diana S. Grafton;
Donald Brooks Wesley;
Catherine Maxine Cook;
Frederick Maxwell Yeater;
Page David Hunt;
Mrs. Hermit Yeater or Heirs;
Russell Yeater or Heirs;
Edward Yeater or Heirs;
Betty Johnson or Heirs;
John B. Yeater, Jr. or Heirs;
Douglas Gamble;
Martha Ann Migliorini;
Donna Sue Kirch;
Ann Louise Martin;
Arch Albert Conner or Heirs;

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JUL 18 2016
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Environmental Protection

Conrad Sherwood Yeater;
Harold Yeater or Heirs;
Merle Kelley or Heirs;
Harlan Kelley or Heirs;
Elmer Wayne Cummins or Scott C. Harris;
Sandra Winslow;
Bessie Wellman or Heirs;
Edna Ruckman or Heirs;
Raymond Yeater or Heirs;
Barbara Louise Yeater;
Mary Jo Earnshaw;
Lulu Reck or Heirs;
Wilma Miller;
Nancy Truax (Truex);
Elvin Yeater;
Darrell Yeater;
Faye Yeater Weekley;
Hubert Morris;
Hester Loretta Dugan;
Donna Sue Richmond;
Harold Parson Richmond;
Mary Jane Bungard;
Barbara Schmalz;
Terry Wilson Yeater;
Rickey Allen Yeater;
Janet Hilpert;
Sharon Louise Briggs;
Linda Kay Morris Wilson;
Alene Gaydos;
Colleen H. McClain Moore;
Ellen Iona Heath;
William K. Heath of Heirs;
T and D Corporation or Successors;
Barbara Persinger;
Teri Lee Parrish;
William G. Yeater;
Nancy J. Foti;
Karen B. Frame;

Kathy Albright; and
Kim Hawkins.

All subject to the qualifications and limitations contained in that certain title opinion dated March 3, 2015.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckley, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8544181

SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by Earnest H. Cadle of the **oil and gas** in place within and underlying a tract or parcel of land containing 1/4 acres, more or less, situate in Center District, Wetzel County, West Virginia **(Western AMI Tract No. 55) (Map 14, Parcel No. 15) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of November 18, 2014, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in Earnest H. Cadle, subject to the qualifications and limitations contained in that certain title opinion dated July 22, 2015.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckley, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8544577

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Office of Oil and Gas
JUL 18 2016
WV Department of
Environmental Protection

SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by Jack L. Crihfield, Jr., et al. of the **oil and gas** in place within and underlying a tract or parcel of land containing 78.1 acres, more or less, situate in Center District, Wetzel County, West Virginia (**Western AMI Tract No. 60) (Map 14, Parcel No. 26) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of October 20, 2014, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in:

Jack L. Crihfield, Jr.;
Doris Postlethwait Twyman;
Nela Craig, heirs or assigns;
Barbara Postlethwait Norris, heirs or assigns;
Barbara J. Postlethwait;
Kathleen R. Young;
Vivian Lee Young;
Patsy Y. Wharton;
Eleanor K. Busch;
Lawrence R. Young, Jr.;
Mary Jo Price;
George LeMoyne Horner;
Barbara Ann Shuman;
Martha Arrick;
Sharon Henthorn;

Linda Hix;
William Francik and Pamela Francik; and
Thomas Iacoboni.

All subject to the qualifications and limitations contained in that certain title opinion dated April 15, 2015.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckley, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8544588

SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by Unknown Heirs of Mary Walker of the **oil and gas** in place within and underlying a tract or parcel of land containing 20.1 acres, more or less, situate in Center District, Wetzel County, West Virginia (**Western AMI Tract No. 62**) **(Map 14, Parcel No. 23) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of March 1, 2014, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in the Unknown Heirs of Mary Walker, subject to the qualifications and limitations contained in that certain title opinion dated August 4, 2014.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckey, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8544655

SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by Jack L. Crihfield, Jr., et al. of the **oil and gas** in place within and underlying a tract or parcel of land containing 15-1/2 acres, more or less, situate in Center District, Wetzel County, West Virginia **(Western AMI Tract No. 75) (Part of Map 14, Parcel No. 38) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of September 14, 2015, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in:

Jack L. Crihfield, Jr.;
Doris Postlethwait Twyman;
Nela Craig;
Barbara Postlethwait Norris;
Barbara J. Postlethwait; and
Herbert T. Myers, Jr.

All subject to the qualifications and limitations contained in that certain title opinion dated December 31, 2015.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckley, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8595892

SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by Telluric Company, et al. of the **oil and gas** in place within and underlying a tract or parcel of land containing 29-133/160 acres, more or less, situate in Center District, Wetzel County, West Virginia (**Western AMI Tract No. 75) (Part of Map 14, Parcel No. 38) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of August 21, 2015, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in:

Telluric Company;
Ellis Dulaney Unknown Heirs, Devisees, Successors and Assigns;
Cleveland W. Dulaney Unknown Heirs, Devisees, Successors and Assigns;
James E. Dulaney Unknown Heirs, Devisees, Successors and Assigns;
Andrew Dulaney Unknown Heirs, Devisees, Successors and Assigns;
Rena Carney Unknown Heirs, Devisees, Successors and Assigns;
Effie Pearl Mosier Unknown Heirs, Devisees, Successors and Assigns; and
Edward A. Dulaney Unknown Heirs, Devisees, Successors and Assigns.

All subject to the qualifications and limitations contained in that certain title opinion dated December 31, 2015.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckley, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8595897

SPILMAN THOMAS & BATTLE, PLLC

ATTORNEYS AT LAW

June 24, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, West Virginia 25304

Re: Well No.: _____
Operator: Drilling Appalachian Corporation

Re: Ownership by Shiben Estates, et al. of the **oil and gas** in place within and underlying a tract or parcel of land containing 80 acres, more or less, situate in Center District, Wetzel County, West Virginia **(Western AMI Tract No. 80) (Map 14, Parcel No. 28) (Surface Designation)**

Ladies and Gentlemen:

Pursuant to the request of our client, we hereby provide this certification to that certain title opinion covering the above-referenced tract or parcel of land, therefore:

We hereby certify that, in our opinion, subject to the correctness of the indices and to anything which may be disclosed by an accurate survey and inspection of the Subject Property, as of December 23, 2014, record title to the Subject Property, including, unless otherwise specifically set forth in the title opinion, the oil and gas along with all operational rights within and underlying any and all public streets, roadways and highways overlying the Subject Property, is vested in:

Shiben Estates;
Larry Garner;
Thomas Garner;
Milton Maxwell Shanley, Jr.;
WV Minerals, Inc.;
Betty Jo Gearhart;
Terry H. Abregg;
Ramona Joan Rice; and
Mary L. Pegg.

All subject to the qualifications and limitations contained in that certain title opinion dated April 9, 2015.

Very truly yours,

SPILMAN THOMAS & BATTLE, PLLC

By: _____
Travis H. Eckley, a Member

cc: Mr. Kenneth R. Mason, President, Drilling Appalachian Corporation
8595906

103-03158

WW-6A1
(5/13)

Operator's Well No. ROCK CAMP 1M

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
see attached list				

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: DAC ENERGY, LLC
By:
Its: V. Pres. of Drilling Appalachian Corp. Its Member

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
80 (surface tract)	Larry Garner	DAC	1/8+	160A/547
80 (surface tract)	Thomas E. Garner	DAC	1/8+	160A/539
80 (surface tract)	Milton Maxwell Stanley, Jr.	DAC	1/8+	162A/670
80 (surface tract)	Mary L. Pegg	DAC	1/8+	159A/357
80 (surface tract)	Ramona Joan Rice	DAC	1/8+	159A/371
80 (surface tract)	Terry & Sandra Aberegg	DAC	1/8+	159A/373
80 (surface tract)	Betty Jo Gearhart	DAC	1/8+	159A/363
80 (surface tract)	WV Minerals	DAC	1/8+	164A/329
80 (surface tract)	Shiben Estates	Stone Energy	1/8+	155A/629
80 (surface tract)	Stone Energy	Drilling Appalachian Corp	1/8+	171A/474
75B	Jack Crihfield et al	DAC	1/8+	174A/762
20	Coastal Lumber Co et al	DAC	1/8+	164A/348
60	Jack L. & Arminta P. Crihfield et al	DAC	1/8+	159A/337
50	Linda D. Elias et al	DAC	1/8+	164A/532
17A	Waco Oil & Gas Co eta al	East Resources	1/8+	86A/404
18	Earnest Cadle et al	DAC	1/8+	138A/486
48	David Bowyer et al	DAC	1/8+	147A/726
6	Shiben Estates, et al	Stone Energy	1/8+	155A/629
13	Glen Cain, Jr. et al	Antero Resources	1/8+	170A/52

103-03158

WW-6AC
(1/12)

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

Date of Notice Certification: 07/01/2016

API No. 47- 103 - 03158
Operator's Well No. ROCK CAMP 1M
Well Pad Name: POSTLETHWAIT/ROCK CAMP

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:	WEST VIRGINIA	UTM NAD 83 Easting:	-80.622556
County:	WETZEL	Northing:	39.635444
District:	CENTER	Public Road Access:	COUNTY ROAD 7/8
Quadrangle:	WILEYVILLE	Generally used farm name:	POSTLETHWAIT
Watershed:	FISHING CREEK		

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

☐ 1. NOTICE OF SEISMIC ACTIVITY	or ☒ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	☐ RECEIVED/ NOT REQUIRED
☒ 2. NOTICE OF ENTRY FOR PLAT SURVEY	or ☐ NO PLAT SURVEY WAS CONDUCTED	☐ RECEIVED
☐ 3. NOTICE OF INTENT TO DRILL	or ☒ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	☐ RECEIVED/ NOT REQUIRED
	☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
☒ 4. NOTICE OF PLANNED OPERATION		☐ RECEIVED
☒ 5. PUBLIC NOTICE		☐ RECEIVED
☒ 6. NOTICE OF APPLICATION		☐ RECEIVED

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WV Department of
Environmental Protection

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.

WW-6AC
(1/12)

103-03158

Certification of Notice is hereby given:

THEREFORE, I Kenneth Mason, 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:	DAC ENERGY LLC	Address:	POST OFFICE BOX 99
By:	Kenneth Mason		ALMA WV 26320
Its:	Pres.	Facsimile:	304-758-2433
Telephone:	304-758-4638	Email:	lance.hickman@dacenergy.com

NOTARY SEAL

Subscribed and sworn before me this 1st day of July 2016.

Betty Fletcher Notary Public

My Commission Expires May 21, 2019

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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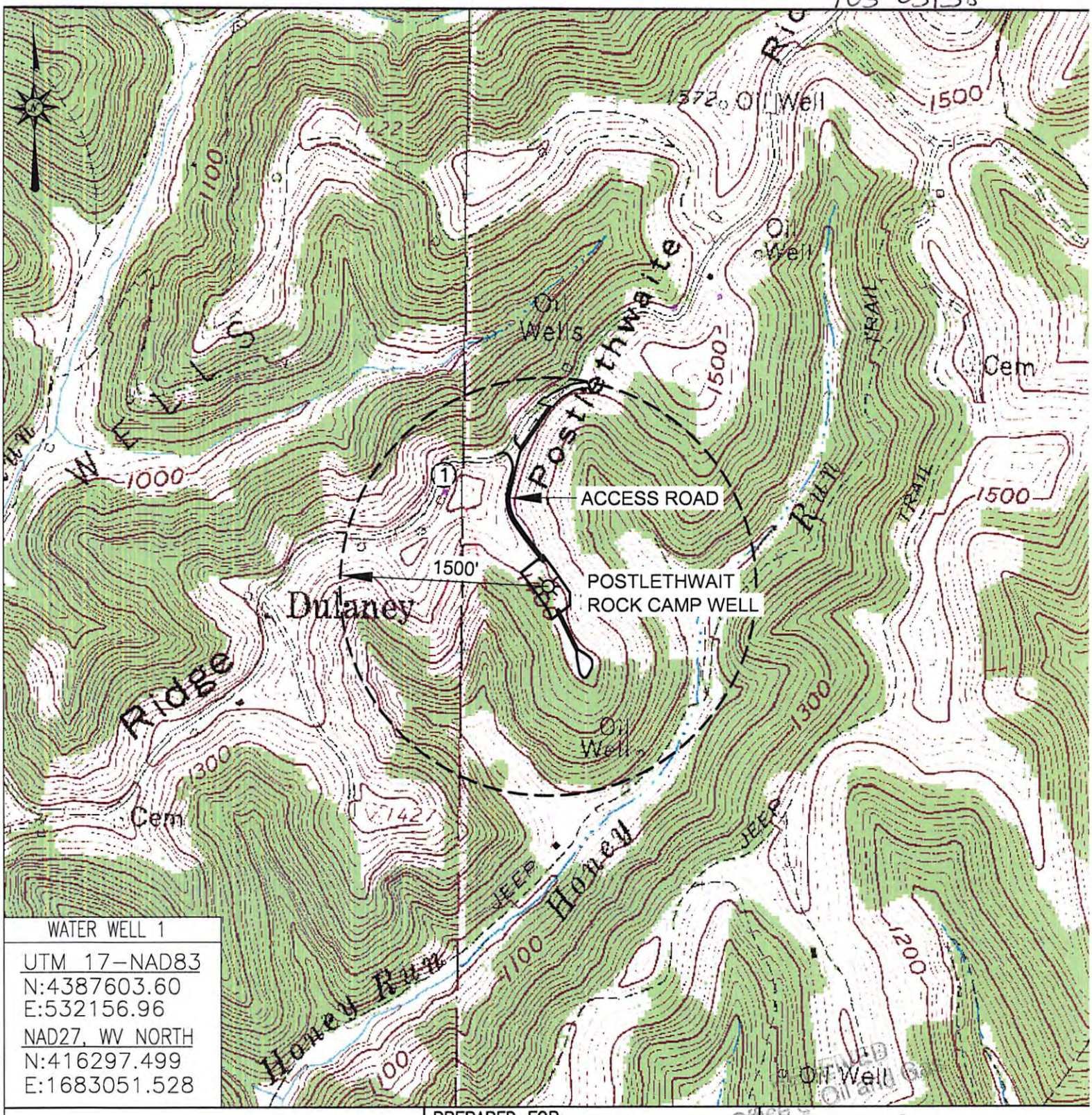
Water Purveyors / Receipts
103-03158



WATER WELL 1

UTM 17–NAD83
N:4387603.60
E:532156.96
NAD27, WV NORTH
N:416297.499
E:1683051.528

Blue Mountain Inc.
11023 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: (304) 662–6486

PREPARED FOR:
DAC ENERGY, LLC
P.O. BOX 99
ALMA, WV 26320

LEGEND
(1) – POSSIBLE WATER WELL

POSTLETHWAIT/ROCK CAMP POSSIBLE WATER WELL MAP
WETZEL COUNTY
CENTER DISTRICT
WEST VIRGINIA

TOPO QUAD: LITTLETON, WV
SCALE: 1" = 1000'
DATE: JULY 1, 2016

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WV Dept. of Environmental Protection

POSTLETHWAIT WATER TESETING NOTIFICATION LIST

PARCEL(S)	OWNER	ADDRESS
26	JAMES H. HOLT (in care of L MARCIE MOTT)	151 CHESTNUT RIDGE RD, ACME PA 15610
27,28,29,30	KENNETH R. & JENNIFER L. MASON	P.O. BOX 103, ALMA WV 26320
38	HERBERT R JR MYERS	HC 68 BOX 58, LITTLETON WV 26581
39, 40	DONNA J OWENS-MYERS ALLEN MYERS	HC 61 BOX 20B, LITTLETON WV 26581

Hand Delivered

all parcels and mailing addresses to possible water purveyors within 1500 foot buffer radius from center of pad

Received
Office of Oil and Gas
JUL 18 2016
WV Department of
Environmental Protection

103-03158

Hand delivered

103-03158

July 1, 2016

Kenneth R. Mason
Jennifer L. Mason
P.O. Box 103
Alma WV 26320

RE: WATER TESTING - POSTLETHWAIT 1M / ROCK CAMP 1M WELLS

Dear Mr. & Mrs. Mason,

This letter is to inform you that our company, DAC ENERGY, LLC is preparing to file for a permit to drill a new well. Before a well work permit can be filed, we are required to give notice of the right to request water well or spring analytical testing to the owner or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located withing 1500 feet of the proposed well site.

With this letter, we are giving you notice of your right to request analytical testing. We are required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, please contact us at your earliest convenience.

DAC ENERGY, LLC
P.O. BOX 99
ALMA, WV 26320

Ph: 304-758-4638

If you should have any questions, please contact our office.

Sincerely,
DAC ENERGY, LLC

Betty Fletcher

Betty Fletcher
Office Manager

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JUL 18 2016
WV Department of
Environmental Protection

WW-6A
(9-13)

API NO. 47- 103 - 03158
OPERATOR WELL NO. ROCK CAMP 1M
Well Pad Name: POSTLETHWAIT/ROCK CAMP

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: 7/1/2016 **Date Permit Application Filed:** 7/1/2016

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: KENNETH R. & JENNIFER L. MASON H.D. ✓
Address: POST OFFICE BOX 103
ALMA WV 26320
Name:
Address:

☑ SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: KENNETH R. & JENNIFER L. MASON
Address: POS TOFFICE BOX 103 H.D. ✓
ALMA WV 26320
Name:
Address:

☐ SURFACE OWNER(s) (Impoundments or Pits)
Name:
Address:

☐ COAL OWNER OR LESSEE
Name: CNX GAS COMPANY LLC ✓
Address: 1000 CONSOL ENERGY DRIVE
CANONSBURG PA 15317-6506

☐ COAL OPERATOR
Name:
Address:

☑ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: SEE ATTACHED LIST
Address:

☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name:
Address:

*Please attach additional forms if necessary

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WW-6A
(8-13)

API NO. 47- 103 - 03158
OPERATOR WELL NO. ROCK CAMP 1M
Well Pad Name: POSTLETHWAIT/ROCK CAMP

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 semicircle encircling or 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.

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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

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.**

WW-6A
(8-13)

API NO. 47- 103 - 03158
OPERATOR WELL NO. ROCK CAMP 1M
Well Pad Name: POSTLETHWAIT/ROCK CAMP

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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WW-6A
(8-13)

API NO. 47- 103 - 03158
OPERATOR WELL NO. ROCK CAMP 1M
Well Pad Name: POSTLETHWAIT/ROCK CAMP

Notice is hereby given by:
Well Operator: DAC ENERGY LLC
Telephone: 304-758-4638
Email: lance.hickman@ dacenergy.com

Address: POST OFFICE BOX 99
ALMA WV 26320
Facsimile: 304-758-2433

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 1st day of July, 2016.

Notary Public

My Commission Expires May 21, 2019

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Office of Oil and Gas
JUL 18 2016
WV Department of
Environmental Protection

WW-6A

POSTLETHWAIT WATER TESETING NOTIFICATION LIST

PARCEL(S)	OWNER	ADDRESS
26	JAMES H. HOLT (in care of L MARCIE MOTT)	151 CHESTNUT RIDGE RD, ACME PA 15610
27,28,29,30	KENNETH R. & JENNIFER L. MASON	P.O. BOX 103, ALMA WV 26320
38	HERBERT R JR MYERS	HC 68 BOX 58, LITTLETON WV 26581
39, 40	DONNA J OWENS-MYERS ALLEN MYERS	HC 61 BOX 20B, LITTLETON WV 26581

all parcels and mailing addresses to possible water purveyors within 1500 foot buffer radius from center of pad

103-03158

Hand delivered

103-03158

July 1, 2016

Kenneth R. Mason
Jennifer L. Mason
P.O. Box 103
Alma WV 26320

RE: WATER TESTING - POSTLETHWAIT 1M / ROCK CAMP 1M WELLS

Dear Mr. & Mrs. Mason,

This letter is to inform you that our company, DAC ENERGY, LLC is preparing to file for a permit to drill a new well. Before a well work permit can be filed, we are required to give notice of the right to request water well or spring analytical testing to the owner or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located withing 1500 feet of the proposed well site.

With this letter, we are giving you notice of your right to request analytical testing. We are required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, please contact us at your earliest convenience.

DAC ENERGY, LLC
P.O. BOX 99
ALMA, WV 26320

Ph: 304-758-4638

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Office of Oil and Gas
JUL 18 2016
WV Department of
Environmental Protection

If you should have any questions, please contact our office.

Sincerely,
DAC ENERGY, LLC

Betty Fletcher

Betty Fletcher
Office Manager

WW-6A3
(1/12)

Operator Well No. Rock Camp 1M
103-03158

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: 6/23/2016 **Date of Planned Entry:** 6/30/2016

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: Kenneth R. & Jennifer L. Mason
Address: Post Office Box 103
Alma, WV 26320
Name:
Address:
Name:
Address:

☒ COAL OWNER OR LESSEE
Name: CNX Gas Company, LLC
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317-6506

☒ MINERAL OWNER(s)
Name: see attached list
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:	West Virginia	Approx. Latitude & Longitude:	39.666667 -80.708333
County:	Wetzel	Public Road Access:	County Road 7/8
District:	Center	Watershed:	Fishing Creek
Quadrangle:	Wileyville	Generally used farm name:	Postlethwait

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:	DAC Energy, LLC	Address:	Post Office Box 99, Alma, WV 26320
Telephone:	304-758-4638		
Email:	lance.hickman@dacenergy.com	Facsimile:	304-758-2433

RECEIVED
Office of Oil and Gas
JUL 18 2016
WV Department of
Environmental Protection

Oil and Gas Privacy Notice:
The Office of Oil and Gas processes your personal information, such as name, address and 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.

WW-6A3
(1/12)

REVISED

Operator Well No. ROCK CAMP 1M
103-03158

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: 6/23/2016 **Date of Planned Entry:** 6/30/2016

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: KENNETH R. & JENNIFER L. MASON
Address: POST OFFICE BOX 103
ALMA WV 26320
Name:
Address:
Name:
Address:

☒ COAL OWNER OR LESSEE
Name: CNX GAS COMPANY,LLC
Address: 1000 CONSOL ENERGY DRIVE
CANONSBURG PA 15317-6506

☒ MINERAL OWNER(s)
Name: see attached list
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:	WEST VIRGINIA	Approx. Latitude & Longitude:	39.635444 -80.622556
County:	WETZEL	Public Road Access:	COUNTY ROAD 7/8
District:	CENTER	Watershed:	FISHING CREEK
Quadrangle:	WILEYVILLE	Generally used farm name:	POSTLETHWAIT

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:	DAC ENERGY LLC	Address:	POST OFFICE BOX 99
			ALMA WV 26320
Telephone:	304-758-4638		
Email:	lance.hickman@dacenergy.com	Facsimile:	304-758-2433

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
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WV Department of
Environmental Protection

103-03158

June 30, 2016

DAC Energy, LLC
Post Office Box 99
Alma, WV 26320

RE: REVISED COORDINATES

This letter is to inform you on the revised coordinates on the *NOTICE OF ENTRY FOR PLAT SURVEY* we had previously sent to you on the *POSTLETHWAIT 1M & ROCK CAMP 1M*

The revised coordinates are: Northing: 39.635444
Easting: -80.622556

Thank you,

DAC Energy LLC

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Office of Oil and Gas
JUL 18 2016
WV Department of
Environmental Protection

103-03158

Larry Garner
5130 Hampton Court
Zanesville, Ohio 43071

Thomas E. Garner
413 Tomlinson Avenue
Glen Dale, West Virginia 26038

Milton Maxwell Shanley, Jr.
696 Oglebay Drive
Wheeling, West Virginia 26003

Mary L. Pegg
1552 Sand Fork Road
Burnsville, West Virginia 26335

Ramona Joan Rice
920 Richmond Hill Drive
Marietta, Georgia 30068-4441

Terry & Sandra Aberegg
425 South Willow Avenue
Port Orange, Florida 32127

Betty Jo Gearhart
631 Lake Overlook Drive
Canton, Georgia 30114

WV Minerals
P.O. Box 5044
Fairmont, West Virginia 26555

Shiben Estates
P.O. Box 246
New Martinsville, WV 26155

Richard J. Bolen
Huddleston Bolen LLP
611 Third Avenue
P.O. Box 2185
Huntington, WV 25722

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Environmental Protection

WW-6A5
(1/12)

Operator Well No. ROCK CAMP 1M
103-03158

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: 07/01/2016 **Date Permit Application Filed:** 07/01/2016

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

☐ CERTIFIED MAIL RETURN RECEIPT REQUESTED ☒ HAND 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: KENNETH R. & JENNIFER L. MASON
Address: POST OFFICE BOX 103
ALMA WV 26320

Name: _____
Address: _____

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: WEST VIRGINIA
County: WETZEL
District: CENTER
Quadrangle: WILEYVILLE
Watershed: FISHING CREEK

UTM NAD 83 Easting: -80.622556
Northing: 39.635444
Public Road Access: COUNTY ROAD 7/8
Generally used farm name: POSTLETHWAIT

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: DAC ENERGY LLC
Telephone: 304-758-4638
Email: lance.hickman@dacenergy.com

Address: POST OFFICE BOX 99
ALMA WV 26320
Facsimile: 304-758-2433

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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JUL 18 2016
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103-03158

This letter is to verify that Kenneth R. Mason and Jennifer L. Mason have received the WW-6A3 Notice of Plat Entry and the WW-6A5 Notice of Planned Operations.

Kenneth R. Mason

Jennifer L. Mason

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Office of Oil and Gas
JUL 18 2016
WV Department of
Environmental Protection

WW-6RW
(1-12)

API NO. 47- 103 - 03158
OPERATOR WELL NO. ROCK CAMP1M
Well Pad Name: POSTLETHWAIT/ROCK CAMP

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

WELL LOCATION RESTRICTION WAIVER

The well operator, DAC ENERGY LLC is applying for a permit from the State of West Virginia to conduct oil or gas well work. Please be advised that well work permits are valid for twenty-four (24) months.

Well Location Restrictions

Pursuant to West Virginia Code § 22-6A-12(a), 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.

WAIVER

I, JENNIFER L. MASON, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	WEST VIRGINIA	UTM NAD 83 Easting:	-80.622556
County:	WETZEL	UTM NAD 83 Northing:	39.635444
District:	CENTER	Public Road Access:	COUNTY ROAD 7/8
Quadrangle:	WILEYVILLE	Generally used farm name:	POSTLETHWAIT
Watershed:	FISHING CREEK		

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials and I therefore waive all well site restrictions listed under West Virginia Code § 22-6A-12(a).

WELL SITE RESTRICTIONS BEING WAIVED
*Please check all that apply

- ☒ EXISTING WATER WELLS
- ☒ DEVELOPED SPRINGS
- ☒ DWELLINGS
- ☒ AGRICULTURAL BUILDINGS

FOR EXECUTION BY A NATURAL PERSON
Signature: _____
Print Name: Jennifer Mason
Date: 6-30-16

FOR EXECUTION BY A CORPORATION, ETC.
Company: _____
By: _____
Its: _____
Signature: _____
Date: _____

Well Operator: DAC ENERGY LLC
By: KENNETH R. MASON
Its: PRESIDENT
Signature: _____
Telephone: 304-758-4638

RECEIVED
Office of Oil and Gas
JUL 18 2016
WV Department of
Environmental Protection

NOTARY SEAL

Subscribed and sworn before me this 1st day of July 2016

Betty A Teterick Notary Public

My Commission Expires May 24, 2019

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.

WW-6RW
(1-12)

API NO. 47- 103- 03158
OPERATOR WELL NO. ROCK CAMP1M
Well Pad Name: POSTLETHWAIT/ROCK CAMP

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

WELL LOCATION RESTRICTION WAIVER

The well operator, DAC ENERGY LLC is applying for a permit from the State of West Virginia to conduct oil or gas well work. Please be advised that well work permits are valid for twenty-four (24) months.

Well Location Restrictions

Pursuant to West Virginia Code § 22-6A-12(a), 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.

WAIVER

I, KENNETH R. MASON, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	WEST VIRGINIA	UTM NAD 83 Easting:	-80.622556
County:	WETZEL	UTM NAD 83 Northing:	39.635444
District:	CENTER	Public Road Access:	COUNTY ROAD 7/8
Quadrangle:	WILEYVILLE	Generally used farm name:	POSTLETHWAIT
Watershed:	FISHING CREEK		

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials and I therefore waive all well site restrictions listed under West Virginia Code § 22-6A-12(a).

WELL SITE RESTRICTIONS BEING WAIVED
*Please check all that apply

- ☒ EXISTING WATER WELLS
- ☒ DEVELOPED SPRINGS
- ☒ DWELLINGS
- ☒ AGRICULTURAL BUILDINGS

FOR EXECUTION BY A NATURAL PERSON
Signature: Kenneth Mason
Print Name: Kenneth Mason
Date: 7-1-16

FOR EXECUTION BY A CORPORATION, ETC.
Company: _____
By: _____
Its: _____
Signature: _____
Date: _____

Well Operator: DAC ENERGY LLC
By: KENNETH R. MASON
Its: PRESIDENT

Signature: Kenneth Mason
Telephone: 304-758-4638

Received
Office of Oil and Gas
JUL 18 2016
WV Department of Environmental Protection

NOTARY SEAL

Subscribed and sworn before me this 1st day of July 2016

Betty A Tucker Notary Public

My Commission Expires May 21, 2019

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.

WW-6AW
(1-12)

API NO. 47- 103 - 03158
OPERATOR WELL NO. ROCK CAMP 1M
Well Pad Name: POSTLETHWAIT/ROCK CAMP

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

VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A
The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions
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.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided,* That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

I, JENNIFER L. MASON, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State: WEST VIRGINIA
County: WETZEL
District: CENTER
Quadrangle: WILEYVILLE
Watershed: FISHING CREEK

UTM NAD 83 Easting: -80.622556
Northing: 39.635444
Public Road Access: COUNTY ROAD 7/8
Generally used farm name: POSTLETHWAIT

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

*Please check the box that applies

- ☒ SURFACE OWNER
- ☒ SURFACE OWNER (Road and/or Other Disturbance)
- ☐ SURFACE OWNER (Impoundments/Pits)
- ☐ COAL OWNER OR LESSEE
- ☐ COAL OPERATOR
- ☐ WATER PURVEYOR
- ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

FOR EXECUTION BY A NATURAL PERSON

Signature: _____
Print Name: Jennifer Mason
Date: 6-30-16

RECEIVED
Office of Oil & Gas
JUL 18 2016
WV Department of
Environmental Protection

FOR EXECUTION BY A CORPORATION, ETC.

Company: _____
By: _____
Its: _____

Signature: _____
Date: _____

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.

WW-6AW
(1-12)

API NO. 47- 103 - 03158
OPERATOR WELL NO. ROCK CAMP 1M
Well Pad Name: POSTLETHWAIT/ROCK CAMP

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

VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A
The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions
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.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided,* That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

I, KENNETH R. MASON, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	WEST VIRGINIA	UTM NAD 83 Easting:	-80.622556
County:	WETZEL	Northing:	39.635444
District:	CENTER	Public Road Access:	COUNTY ROAD 7/8
Quadrangle:	WILEYVILLE	Generally used farm name:	POSTLETHWAIT
Watershed:	FISHING CREEK		

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

*Please check the box that applies

- ☒ SURFACE OWNER
- ☒ SURFACE OWNER (Road and/or Other Disturbance)
- ☐ SURFACE OWNER (Impoundments/Pits)
- ☐ COAL OWNER OR LESSEE
- ☐ COAL OPERATOR
- ☐ WATER PURVEYOR
- ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

FOR EXECUTION BY A NATURAL PERSON
Signature: Kenneth Mason
Print Name: Kenneth Mason
Date: 7-1-16

FOR EXECUTION BY A CORPORATION, ETC.
Company: _____
By: _____
Its: _____
Signature: _____
Date: _____

RECEIVED
Office of Oil and Gas
JUL 18 2016
WV Department of
Environmental Protection

Oil and Gas Privacy Notice:
The Office of Oil and Gas processes your personal information, such as name, address and 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.

103-03158

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Earl Ray Tomblin
Governor

Office of the District Engineer/Manager
District Six
1 DOT Drive * Moundsville, WV 26041 * 304-843-4000

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

July 1, 2016

DAC ENERGY, LLC

PO BOX 99
ALMA, WV 26320

Dear Applicant:

Your approved copy of Permit Number 06-2016-0222 for a DP - Drilling Permit permit type is enclosed. A description of the work is on the permit.

Please contact the District Six office:

Please notify the County Superintendent Randy Rush at 304-455-0900

at least 48 hours in advance of the date you plan to begin work so arrangements can be made to inspect the work authorized by the permit.

Failure to comply will result in cancellation of your permit.

A copy of this permit is to be available on the job at all times while the work is in progress for inspection by the West Virginia Division of Highways' personnel.

Sincerely,

District Engineer / District Manager

Permit Supervisor

Initials: SLF:w
Attachments: Yes
Enclosure: No

E.E.O./AFFIRMATIVE ACTION EMPLOYER

RECEIVED
Office of Oil and Gas
JUL 18 2016
WV Department of
Environmental Protection

Form MM-109 Rev. 09-07-11

103-03158

PERMIT NO. 06-2016-0222

PERMIT TO ENTER UPON, UNDER, OVER OR ACROSS THE STATE ROADS OF THE STATE OF WEST VIRGINIA, AS PROVIDED FOR IN §§17-16-6, 17-16-9 and 17-4-8, WEST VIRGINIA CODE, 1931, AS AMENDED.

THIS PERMIT, Made this 1st day of July 2016, between the

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, a statutory corporation hereinafter called DIVISION and

Name: DAC ENERGY, LLC

Address: PO BOX 99

Address: ALMA, WV 26320 Phone No: (304) 758-4638

EMail: _____ hereinafter called APPLICANT.

WITNESSETH

In consideration of the hereinafter set out covenants and in accordance with §§17-16-6, 17-16-9 or 17-4-8, of the Official Code of West Virginia, 1931, as amended, and the rules and regulations promulgated thereunder, APPLICANT does hereby apply to enter:

Route Type & No.: SLS 7/8 DOH Project No.: _____ (if applicable);

at 2.98 miles east of WV 7 Mile Post: 2.98

in 52 - Wetzel County, for the purposes hereinafter set forth and in accordance with the plans and specifications which are attached hereto and made a part hereof:

To construct and maintain a 50 foot wide maximum permanent approach to the Postlethwait/Rock Camp Well site which will originate on the right-of-way of CR 7/8 as shown on the attached sketch and plans. All work must comply with WV DOT/DOH specifications. All vehicles must enter/exit approach at no less than a 70 degree angle. Achieve and maintain minimum sight distances required from 10 feet off roadway at all times for this permit to remain valid. Must cut tree across from approach as shown in attached picture. No water allowed to drain into road.

APPLICANT further agrees to accept the conditions hereinafter set forth:

1. APPLICANT shall deposit with DIVISION the sum of $ 250000.00 in the form of an official, certified or cashier's check, or executed bond with surety satisfactory to DIVISION to cover any damage and inspection costs DIVISION may sustain by reason of the granting of this permit, including any expense incurred in restoring said highway to its original condition or the proper repair of any and all damages that may result within one (1) year from the date of the completion of said work.
2. APPLICANT agrees to reimburse DIVISION for inspection costs as follows:

☐ A. For any inspection costs incurred under this permit.

☐ B. At $ _____ per linear foot for _____ feet of water line installed under this permit.

☐ C. At $ _____ per linear foot for _____ feet of sewer line installed under this permit.

3. APPLICANT shall notify DIVISION at least 48 hours in advance of the date the work will begin. Failure to comply will be cause for cancellation of this permit.
4. APPLICANT agrees to protect its employees, equipment and users of the highway at all times in accordance with the current Division of Highways manual "Traffic Control For Street and Highway Construction and Maintenance Operations".
5. APPLICANT agrees to comply with all applicable state and federal laws in the performance of work under this permit.
6. Supplementary conditions cited on the reverse side of this permit are understood and agreed to be part hereof.
7. The work authorized under this permit shall be completed on or before (Date); July 1, 2017.

Applicant's signature on this permit affirms that all text herein is a verbatim reproduction of The West Virginia Division of Highways Encroachment Permit Form MM-109, revision date May 19, 2005. All attachments are inclusive to this permit.

RECOMMENDED: Sharon Duharty

Title: Permit Supervisor

APPLICANT: [signature] Vice Pres. Blue Mountain Inc.

Signature and Title of Applicant

RECEIVED Office of Oil and Gas JUL 18 2016 WV Department of Environmental Protection

BOND REQUIREMENT:

BOND NO: 3202116 DATE: 8/1/2011

INSPECTION: Periodic - NoCost

APPROVED: [signature]

Title: District Engineer

West Virginia Division of Highways

AUTHORIZATION NO. _____

Addendum to Permit

103-03158

This addendum, made this 7th day of July 2016, between the West Virginia Department of Transportation, Division of Highways, a statutory company hereinafter called the Division and DAC Energy, LLC

Address: PO Box 99, Alma, WV 26320 Phone: 304-758-4638

Hereinafter called APPLICANT.

The Applicant has filed with the DIVISION a written application for the following named routes and location:

From WV 7 Addendum to Permit #06-2016-0222
Wetzel CR 7/8, Postlethwait Ridge, MP 0.00 to MP 2.98

Applicant shall properly repair and maintain any and all damages that may result to said bridges, highways, shoulders, and ditches from hauling activities of Applicant, its agents, contractors and employees, to as good a condition as when the permit was issued, as determined by the District Engineer of the DIVISION having jurisdiction over the work permitted, or pay damages therefore in the amount to sufficiently restore such bridges, roads, highways, shoulders, and ditches to original condition; and shall reimburse the DIVISION for all inspection costs incurred by it in connection with said work and repairs of such damages and faithfully comply with all terms and conditions of said permits and save harmless the DIVISION and the State of West Virginia from all losses resulting from the conduct of said work and repairs; then this Bond shall be released ; or otherwise will remain in full force and effect.

Bond Amount: $250,000.00
Bond Number: 3202116 Date: 8/1/2011

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WV Department of
Environmental Protection

Revised 1/2012

PERMIT#6 2016 0 2 2 2

Dist. Permit Number _____

BOND Number 3202116

OIL and GAS DATA INFORMATION SHEET

APPLICANT

Company Name DAC Energy LLC

Address PO Box 99

City Alma ST WV Zip 26320

Contact Person Permit Lance M. Hickman Telephone (304) 758-4638

24/7 Road Maintenance Contact Lance M. Hickman Telephone (304) 758-4638 Cell (304) 771-4739

24/7 Backup Contact Kenny Mason Telephone (304) 758-4638 Cell _____

Drilling/ Fracking will require usage of _____Less than 5000 Barrels of fluids __X__ 5000 /+

Site Location

Site Name Postlethwait / Rock Camp Well Site

Road Local Name Greathouse Hill Road Rd Rte. # 7/8

Decimal Format GPS N: 39.63819° W: 80.62356° County: Wetzel

Location Description

On Rte. # 7/8 being 2.98 miles northeast of Jct. of SR. # 7 and CR. # 7/8

DOH USE ONLY HAULING ROUTE from US or WV Route (Attach Map)

Name & Rte. #	Beg MP	End MP	Surface Type	Condition
Greeathouse Hill From WV7 Wetzel Co				
Road (CR 7/8)	0.00	2.98	Bituminous / Gravel	Poor
CR 7/8 Postlethwait Bridge	0.00	2.98	Surface Treated / HMA	Poor

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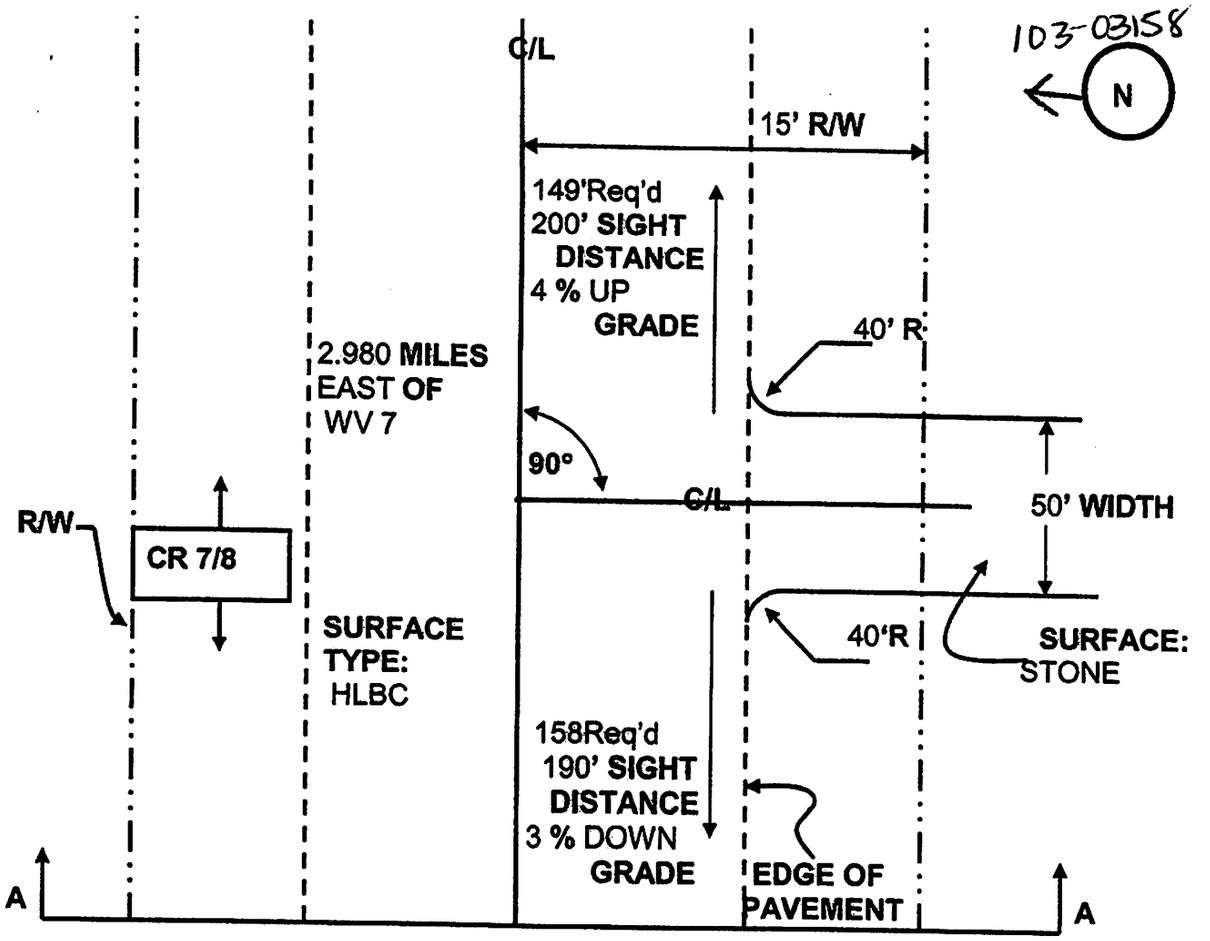
Pad Center location WGS83 Decimal Format GPS N: 39.63544° W: 80.62256°

WV DEP Permit Number 47 - 103 - 03158 PERMIT#6 2016 0 2 2 2

STATE COUNTY PERMIT NUMBER

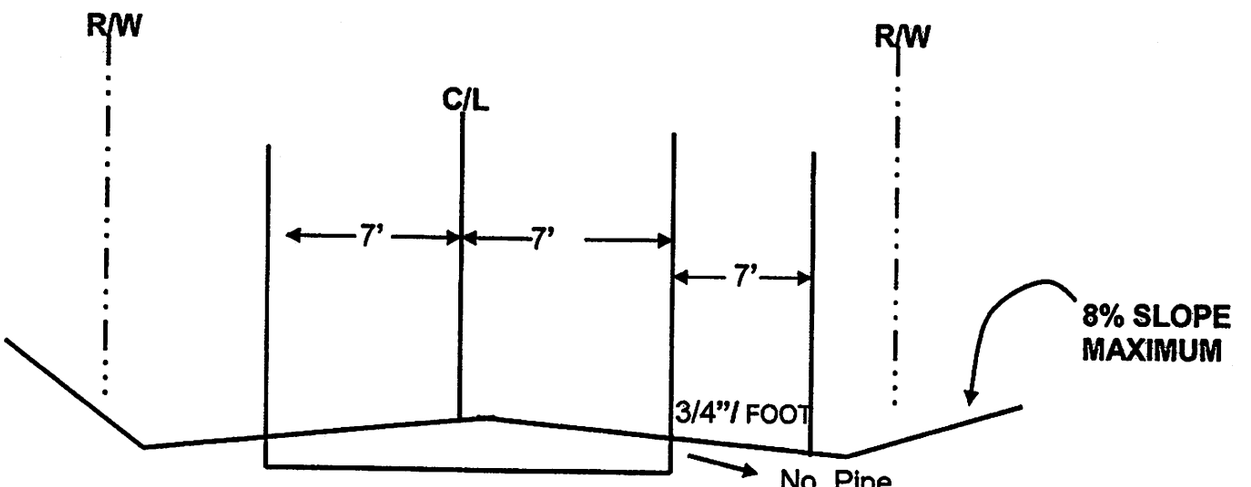
103-03158



MILE POST 2.980

PLAN VIEW

SPEED LIMIT: 25 MPH Est.



TYPICAL SECTION
Section AA

DETAILS FOR APPROACH TO **COUNTY** ROUTE NO. **7/8**
COUNTY **WETZEL** DATE **July 1, 2016**
FOR : **DAC- Must install a swale, no water allowed to drain into road.**
Must cut tree across from approach as shown in attached picture.

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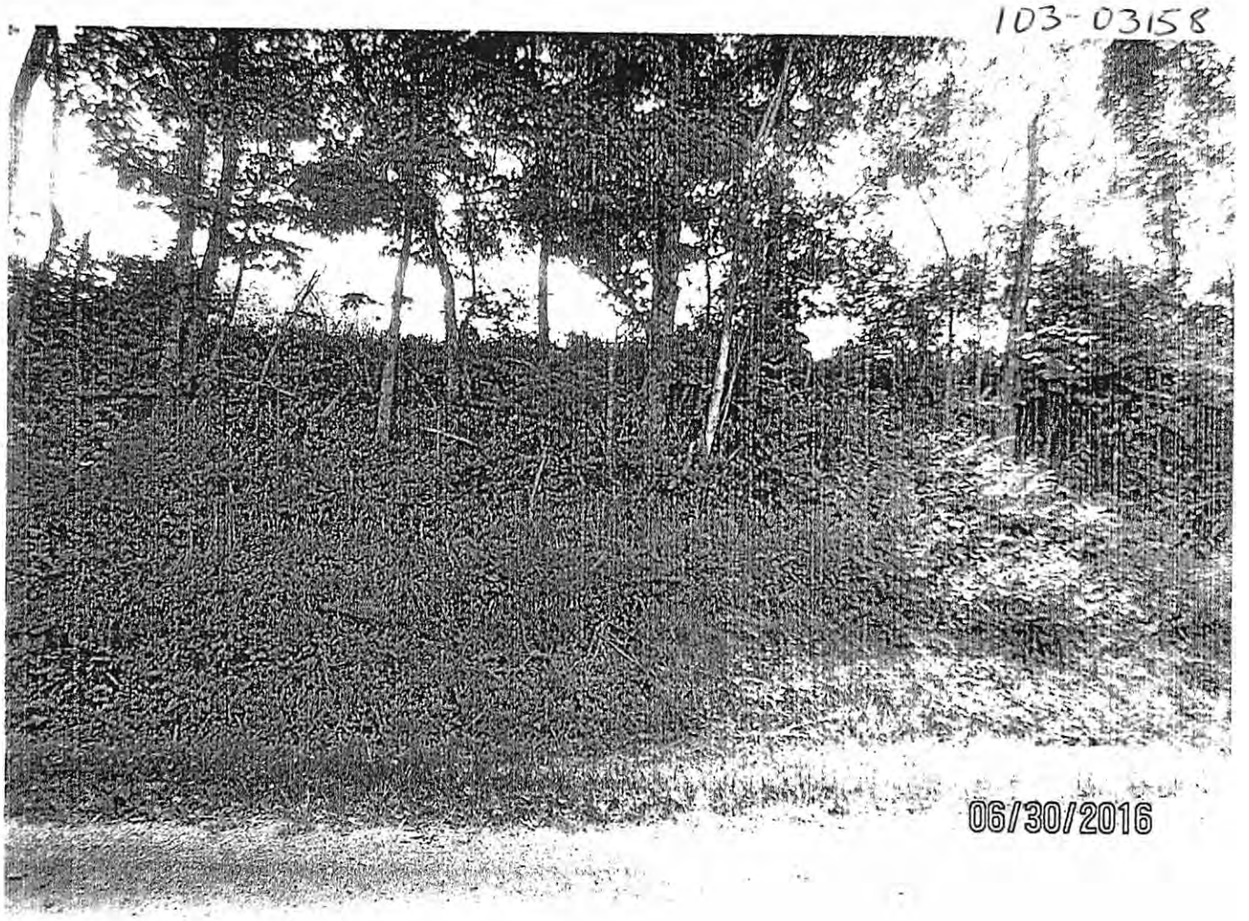

D.A.C.
Wetzel CR 7/8
Milepost 2.98
View: SOUTH

Must ACHIEVE MINIMUM REQUIRED SIGHT DISTANCES ON ATTACHED SKETCH FROM 10 FEET OFF EDGE OF PAVEMENT AND MAINTAIN AT ALL TIMES.

TREES ON OPPOSITE SIDE OF ROAD MUST BE CUT TO SEE ONCOMING TRAFFIC While TRAVELING West bound. See ATTACHED PICTURE.

NO WATER ALLOWED TO DRAIN INTO ROAD.

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DAC.
Wetzel CR 7/8
Milepost 2.98
View: West

Remove trees AS shown above TO SEE ON COMING TRAFFIC WHEN TURNING LEFT INTO APPROACH WHILE TRAVELING WESTBOUND.

PERMIT #6 2016 0 2 2 2

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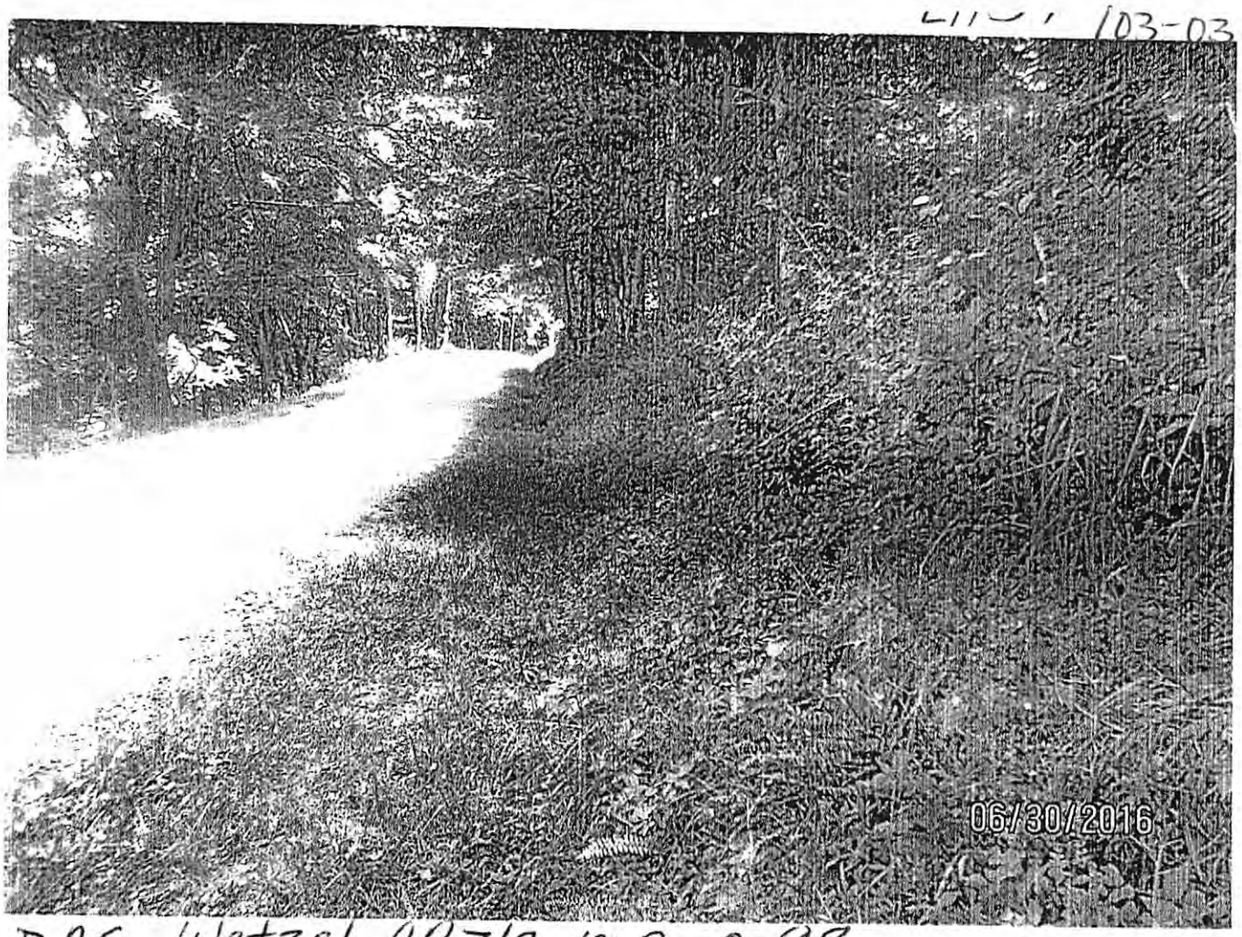

DAC Wetzel CR 7/8 MP. 2.98

PERMIT #6 2016 0

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JUL 18 2016

WV Department of
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103-03158

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

OFFICE OF THE DISTRICT ENGINEER
DISTRICT SIX
1 DOT Drive - Moundsville, WV 26041-2353 • 304/843-4008

Drilling Operators Permit Conditions & Requirements

1. Applicant must construct the approach in accordance with the guidelines set forth in the Manual on Rules and Regulations for Constructing Driveways on State Highway Right-Of-Way. The surfacing is specifically addressed on Pages 20 and 21 under Section 8.4.6.

2. No work may be performed at this approach site after completion date, without obtaining written permission from District Six Permit Office to modify or extend permit.

3. Applicant must provide required Traffic Control at all times. Failure to provide Required Traffic Control will void this permit.

4. At no time may the drilling operation encroach on DOH right-of-way. Specifically, no loading or staging operations may be conducted on the traveled way or within DOH right-of-way or employee parking along the right-of-way.

5. A driveway shall not be approved for parking or loading areas that require backing maneuvers within the state highway right-of-way. Such parking areas must include on-site maneuvering areas and aisles to permit vehicles to enter and exit the site in forward drive without hesitation.

6. Applicant is responsible for removing mud and debris **immediately** that is caused by any entity involved with this drilling operation.

7. Applicant must notify the Permit Office at 304-843-4019 when drilling operations cease due to abandoning a well and the driveway approach will no longer be used. The approach must be removed and ditch line restored including the removal of pipe.
   The property owner must place the approach in their name for the driveway to remain.

   Bonds will not be released until every approach issued to your company has been removed or placed in the property owner's name.

8. Must be able to see the minimum required sight distances listed in the permit at all times for this permit to be valid. Any brush, trees or obstructions to the line of sight will void the permit.

   Entrance must be installed in accordance with the WV Rules & Regulations for Constructing Driveways on State Rights-of-Way. Website:
   http://www.transportation.wv.gov/highways/traffic/Documents/DrivewayManual.pdf

Failure to comply with any condition or requirement will void this permit.

E.E.O./AFFIRMATIVE ACTION EMPLOYER

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103-0315S

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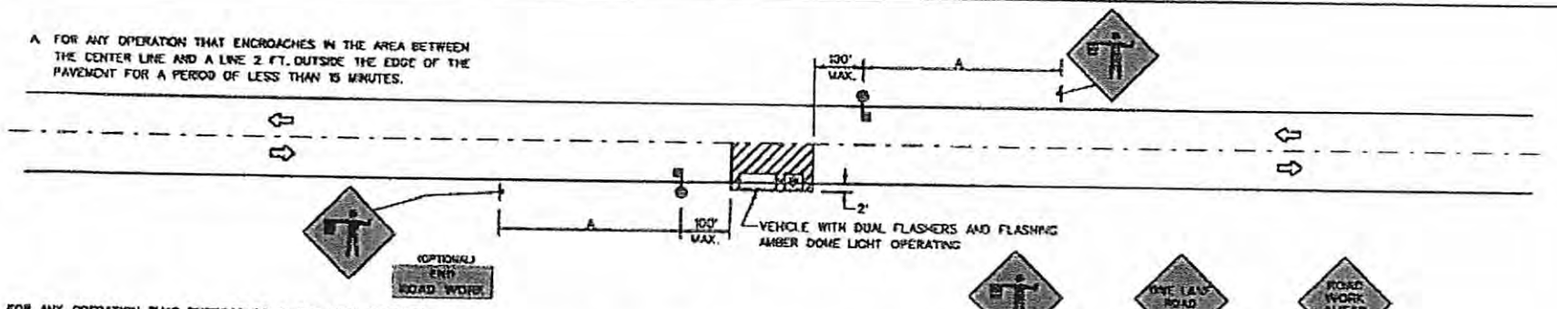
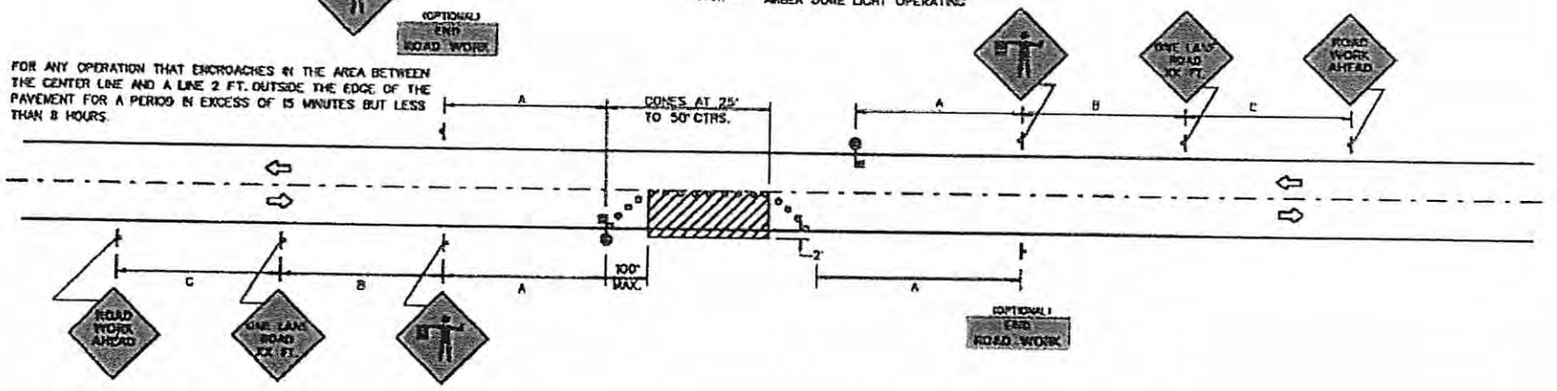
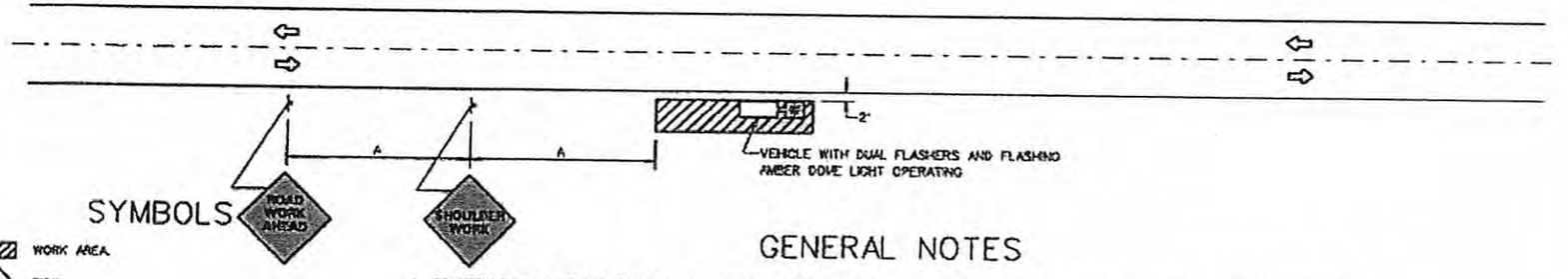
A. FOR ANY OPERATION THAT ENCROACHES IN THE AREA BETWEEN THE CENTER LINE AND A LINE 2 FT. OUTSIDE THE EDGE OF THE PAVEMENT FOR A PERIOD OF LESS THAN 15 MINUTES.



B. FOR ANY OPERATION THAT ENCROACHES IN THE AREA BETWEEN THE CENTER LINE AND A LINE 2 FT. OUTSIDE THE EDGE OF THE PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES BUT LESS THAN 8 HOURS.



C. FOR ANY OPERATION THAT IS MORE THAN 2 FT. OUTSIDE THE EDGE OF THE PAVEMENT FOR A PERIOD OF LESS THAN 60 MINUTES.



SYMBOLS

- WORK AREA
- SIGN
- SIGN ON PORTABLE OR PERMANENT SUPPORT.
- FLAGGER WITH PADDLE.
- CONES

TYPICAL APPLICATIONS

PATCHING PAVEMENT.
FIELD SURVEY.
CLEANING UP DEBRIS ON PAVEMENT.
CROSSWALK PAINTING.

GENERAL NOTES

1. CONSTRUCTION OPERATIONS SHALL BE CONFINED TO ONE TRAFFIC LANE, LEAVING THE OPPOSITE LANE OPEN TO TRAFFIC, AT LEAST 500 FT. OF BOTH TRAFFIC LANES SHALL BE AVAILABLE FOR TRAFFIC MOVEMENT AT INTERVALS NOT GREATER THAN 1,000 FT. A COMPLETE TRAFFIC CONTROL PLAN MUST BE APPROVED FOR ANY PROJECT EXPECTING TO EXCEED 1,000 FT. IN LENGTH INCLUDING BOTH TAPER AND WORK AREAS.
2. FOR LOW-VOLUME SITUATIONS WITH SHORT WORK ZONES ON STRAIGHT ROADWAYS WHERE THE FLAGGER IS VISIBLE TO ROAD USERS APPROACHING FROM BOTH DIRECTIONS, A SINGLE FLAGGER, POSITIONED TO BE VISIBLE TO ROAD USERS APPROACHING FROM BOTH DIRECTIONS, MAY BE USED.
3. FLASHING WARNING LIGHTS AND/OR FLAGS MAY BE USED TO CALL ATTENTION TO THE ADVANCE WARNING SIGNS.
4. THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES.
5. ALL SIGNS ARE TO BE REMOVED AT COMPLETION OF THE DAY'S OPERATIONS.
6. FOR MULTILANE DIVIDED ROADWAYS THE ADVANCE WARNING SIGNS FOR TRAFFIC APPROACHING FROM THE OPPOSITE DIRECTION MAY BE OMITTED IF APPROVED BY THE ENGINEER

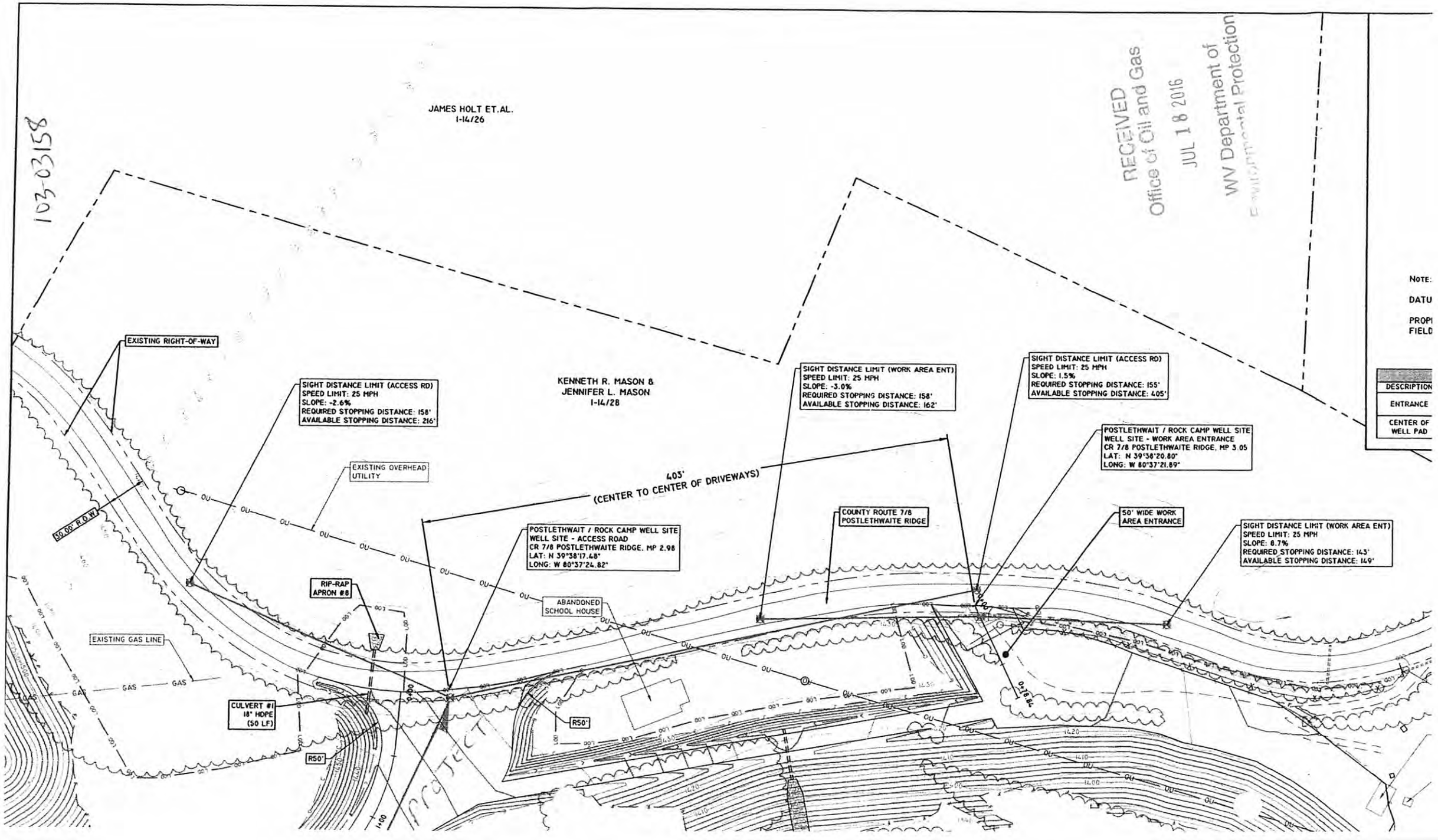
SUGGESTED ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS (IN FT)		
	A	B	C
URBAN (LOW SPEED)*	100	100	100
URBAN (HIGH SPEED)*	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1,000	1,500	2,640

*SPEED CATEGORY TO BE DETERMINED BY WV DOH

CASE A6

TWO-LANE, TWO-WAY TRAFFIC
SHORT-TERM OPERATIONS
DAYTIME ONLY



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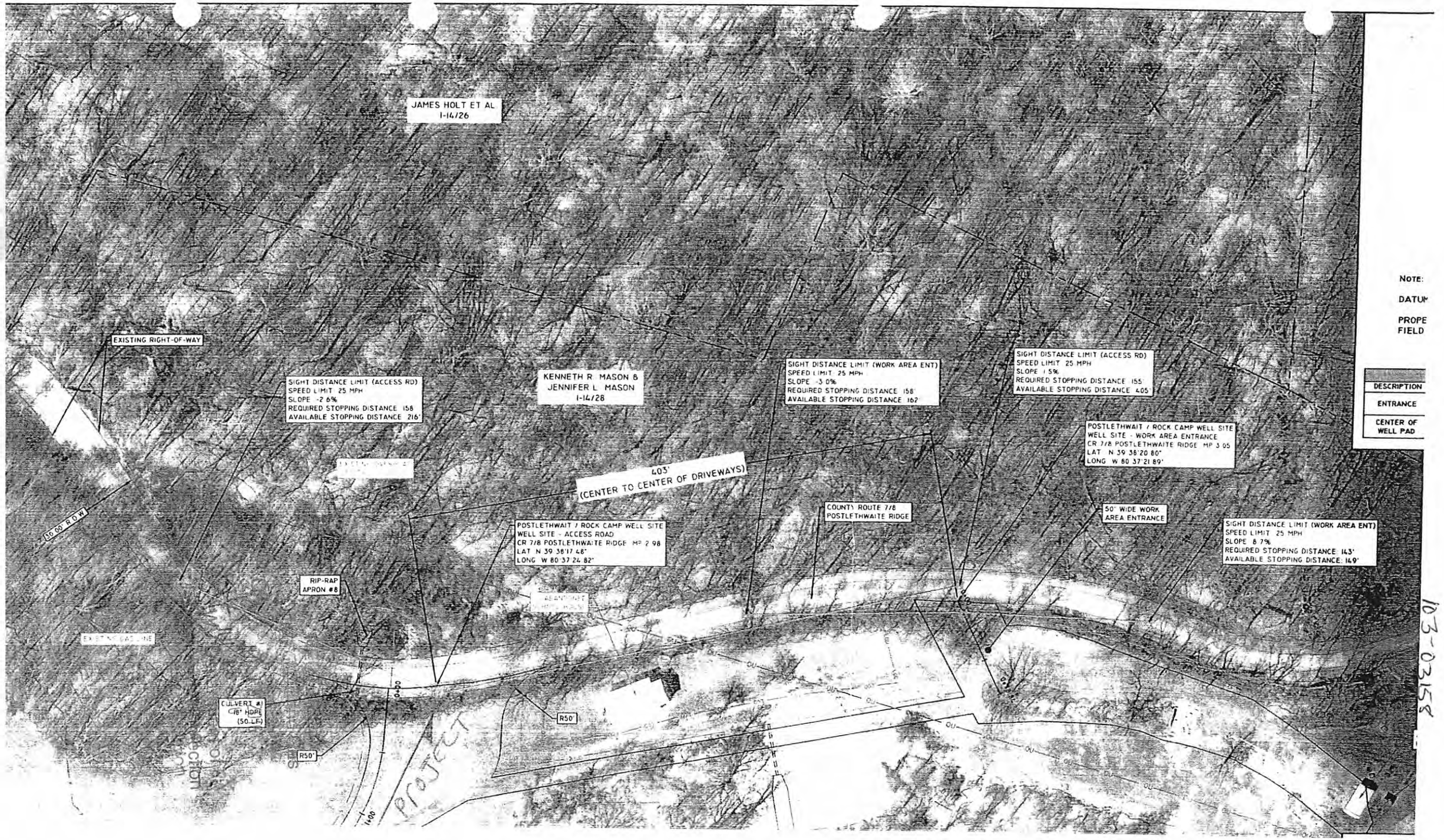
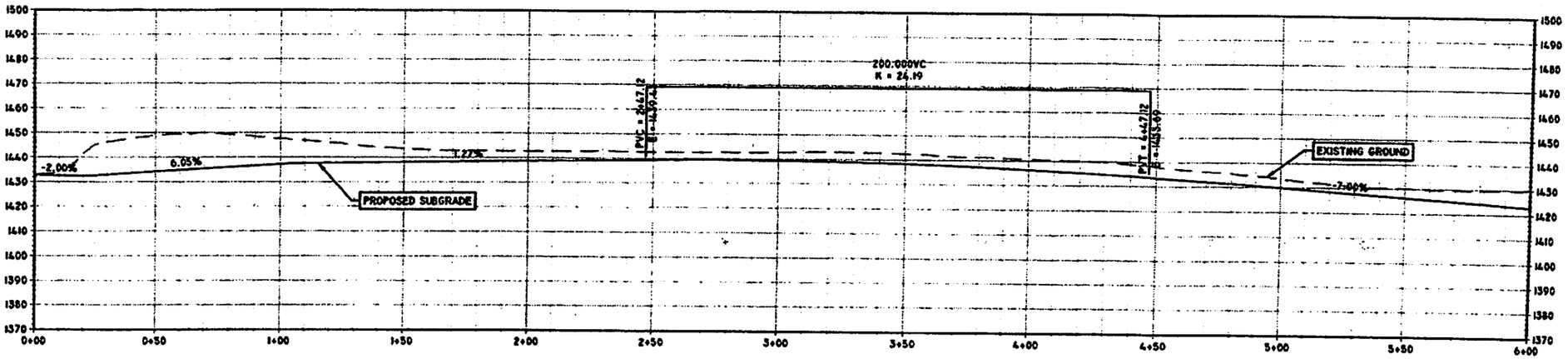
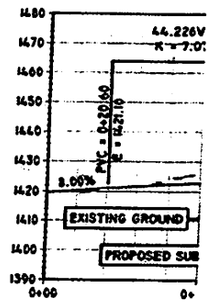
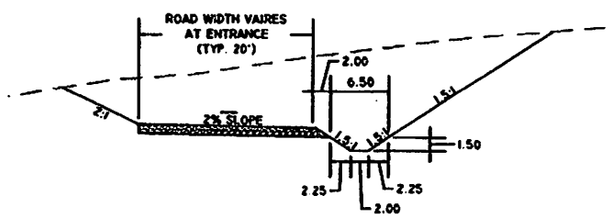

JAMES HOLT ET AL
1-14/26
KENNETH R MASON &
JENNIFER L MASON
1-14/28
EXISTING RIGHT-OF-WAY
SIGHT DISTANCE LIMIT (ACCESS RD)
SPEED LIMIT 25 MPH
SLOPE -2 6%
REQUIRED STOPPING DISTANCE 158'
AVAILABLE STOPPING DISTANCE 216'
SIGHT DISTANCE LIMIT (WORK AREA ENT)
SPEED LIMIT 25 MPH
SLOPE -3 0%
REQUIRED STOPPING DISTANCE 158'
AVAILABLE STOPPING DISTANCE 162'
SIGHT DISTANCE LIMIT (ACCESS RD)
SPEED LIMIT 25 MPH
SLOPE 1 5%
REQUIRED STOPPING DISTANCE 155'
AVAILABLE STOPPING DISTANCE 405'
POSTLETHWAIT / ROCK CAMP WELL SITE
WELL SITE - WORK AREA ENTRANCE
CR 7/8 POSTLETHWAITE RIDGE MP 3 05
LAT N 39 38'20 80"
LONG W 80 37'21 89"
403'
(CENTER TO CENTER OF DRIVEWAYS)
POSTLETHWAIT / ROCK CAMP WELL SITE
WELL SITE - ACCESS ROAD
CR 7/8 POSTLETHWAITE RIDGE MP 2 98
LAT N 39 38'17 48"
LONG W 80 37'24 82"
COUNTY ROUTE 7/8
POSTLETHWAITE RIDGE
50' WIDE WORK
AREA ENTRANCE
SIGHT DISTANCE LIMIT (WORK AREA ENT)
SPEED LIMIT 25 MPH
SLOPE 8 7%
REQUIRED STOPPING DISTANCE 143'
AVAILABLE STOPPING DISTANCE 149'
60' R O W
RIP-RAP
APRON #8
CULVERT #1
18" HDPE
(50 LF)
R50'
R50'
1+00
Project
NOTE:
DATUM
PROPE
FIELD
DESCRIPTION
ENTRANCE
CENTER OF
WELL PAD
103-03158

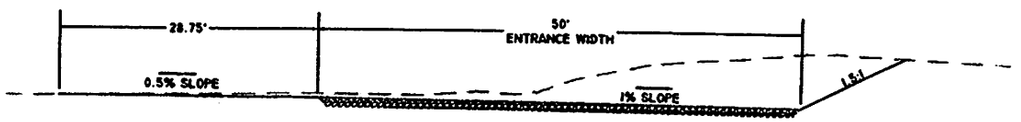


ACCESS ROAD TO WELL PAD PROFILE
SCALE 1"=30'



WORK AREA ENTRA
SCALE 1"=





TYPICAL WORK AREA ENTRANCE SECTION
SCALE 1"=10'

103-03158

103-03158
BEGIN HAUL ROUTE
CR7/8 (POSTLETHWAITE RIDGE), MP 0.00
POSTLETHWAIT / ROCK CAMP WELL SITE
LAT: N 39°37'32.67"
LONG: W 80°39'28.17"
PROJECT
END HAUL ROUTE ON CR7/8
AT WELL SITE ACCESS ROAD, MP 2.98
POSTLETHWAIT / ROCK CAMP WELL SITE
LAT N 39°38'17.48"
LONG W 80°37'24.82"
END HAUL ROUTE ON CR7/8
AT WELL SITE WORK AREA ENTRANCE, MP 3.05
POSTLETHWAIT / ROCK CAMP WELL SITE
LAT N 39°38'20.80"
LONG: W 80°37'21.89"
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LITTLETON
(P.O.)
Silver Hill
Uniontown
Knob Fork
(P.O.)
Anthem
Dulaney
Wileyville
(P.O.)
Halls Mills
Bebee
Newdale
Andy
Proctor
Endicott
Dean
Suter
Onle
Kodol
Four Mile

LOCATION MAP
NOT TO SCALE

DAC ENERGY, LLC

PO BOX 99
ALMA, WV 26320

POSTLETHWAIT/ ROCK CAMP WELL SITE

PAD CENTER LOCATION

NAD 83 - LAT: 39°38'07.60"; LONG: 80°37'21.20"
NAD27 - LAT: 39° 38'7.31"; LONG: 80°37'21.88"
UTM, NAD 83 - N: 4387363.6 E: 532389.6

ENTRANCE LOCATION

NAD 83 - LAT: 39°38'17.27"; LONG: 80°37'25.24"
NAD 27 - LAT: 39°38'16.98"; LONG: 80°37'25.92"
UTM, NAD 83 - N: 4387655.4; E: 530861.9

CENTER DISTRICT,
WETZEL COUNTY, WEST VIRGINIA
DATE: JUNE 07, 2016

APPROVED
WVDEP OOG
9/9/2016

PROJECT INFORMATION

SURFACE OWNER:
KENNETH R. MASON & JENNIFER L. MASON
TAX MAP/PARCEL 01-14-28

SITE LOCATION:
THE POSTLETHWAIT SITE IS LOCATED SOUTHEAST OF COUNTY ROUTE 7/8 (GREATHOUSE HILL RD) APPROXIMATELY 3.0 MILES NORTHEAST OF ITS INTERSECTION WITH WV ROUTE 7.

ENTRANCE PERMIT

DAC ENERGY, LLC. WILL OBTAIN AN ENCROACHMENT PERMIT (FORM MM-109) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

MISS UTILITY

MISS UTILITY OF WEST VIRGINIA WAS NOTIFIED FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN (TICKET NO. 1609840735). IN ADDITION, MISS UTILITY WILL BE CONTACTED PRIOR TO THE START OF THE PROJECT.

FLOODPLAIN NOTE

THE PROPOSED LIMITS OF DISTURBANCE FOR THIS PROJECT ARE NOT LOCATED IN A FLOOD ZONE, PER THE FLOOD INSURANCE RATE MAP (FIRM) NUMBERS 54103C0100C.

NOTE: DRAWING WAS CREATED ON 22x34 PAPER. 11x17 DRAWINGS ARE HALF SCALE. REFER TO SCALE BAR FOR PROPER SCALING.

SHEET INDEX	
DRAWING NUMBER	DRAWING NAME
1	COVER SHEET
2	GENERAL NOTES (1 OF 2)
3	GENERAL NOTES (2 OF 2)
4	1/2 MILE BOUNDARY OVERVIEW
5	EXISTING CONDITIONS
6	OVERALL SITE PLAN
7	OVERALL SITE PLAN W/ ORTHO
8	DETAILED SITE PLAN (1 OF 4)
9	DETAILED SITE PLAN (2 OF 4)
10	DETAILED SITE PLAN (3 OF 4)
11	DETAILED SITE PLAN (4 OF 4)

SHEET INDEX	
DRAWING NUMBER	DRAWING NAME
12	ROAD PROFILES & TYPICAL SECTIONS
13	ROAD CROSS SECTIONS
14	PAD & STOCKPILE SECTIONS
15	RECLAMATION PLAN (1 OF 4)
16	RECLAMATION PLAN (2 OF 4)
17	RECLAMATION PLAN (3 OF 4)
18	RECLAMATION PLAN (4 OF 4)
19	CONSTRUCTION DETAILS (1 OF 3)
20	CONSTRUCTION DETAILS (2 OF 3)
21	CONSTRUCTION DETAILS (3 OF 3)
22	MATERIAL QUANTITIES

Blue Mountain Inc.
Engineers and Land Surveyors
11023 Mason Dixon Hwy.
Burton, WV 26562-9656
(304) 662-6486

Know what's below.
Call before you dig.

LOCATION MAP
LITTLETON 7.5M USGS QUADRANGLE
SCALE 1"=2000'

ENVIRONMENTAL NOTES

A WETLAND DELINEATION WAS PERFORMED ON APRIL 12, 2016 BY BLUE MOUNTAIN INC. TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF ENGINEERS AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION. THE MAY 4,2016 REPORT FOR THE POSTLETHWAIT/ ROCK CAMP WELL SITE, WHICH WAS PREPARED BY BLUE MOUNTAIN INC, SUMMARIZES THE RESULTS OF THE FIELD DELINEATION. THE REPORT DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE OR WVDEP. IT IS STRONGLY RECOMMENDED THAT THE AFOREMENTIONED AGENCIES BE CONSULTED IN AN EFFORT TO GAIN CONFIRMATION OF THE DELINEATION DESCRIBED BY THE REPORT PRIOR TO ENGAGING CONSTRUCTION ON THE PROPERTY DESCRIBED HEREIN. THE DEVELOPER SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE U.S., INCLUDING WETLAND FILLS AND STREAM CROSSINGS.

GEOTECHNICAL NOTES

THIS DESIGN WAS PERFORMED WITHOUT A GEOTECHNICAL INVESTIGATION. THEREFORE, BLUE MOUNTAIN INC. SHALL ASSUME NO RESPONSIBILITY FOR ANY UNFORESEEN SITE CONDITIONS DURING OR AFTER CONSTRUCTION, INCLUDING ANY POTENTIAL SLOPE OR EMBANKMENT FAILURES DUE TO A SURCHARGE LOAD OR OTHER CAUSES.

RESTRICTIONS

1. THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300' OF THE PAD & LOD.
2. THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000' OF THE PAD AND LOD.
3. THERE ARE NO EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' OF THE WELLS BEING DRILLED.
4. THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625' OF THE CENTER OF THE PAD.
5. THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625' OF THE CENTER OF THE PAD.
6. THERE ARE NO PERENNIAL STREAMS, LAKES, PONDS OR RESERVOIRS WITHIN 100' OF THE PROPOSED LIMITS OF DISTURBANCE.

CERTIFICATION:

I DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE EROSION AND SEDIMENT CONTROL PLAN AND SITE RESTORATION PLAN AND POST CONSTRUCTION BMPS ARE TRUE AND CORRECT, REPRESENT ACTUAL FIELD CONDITIONS AND ARE IN ACCORDANCE WITH THE WEST VIRGINIA CODE AND THE DEPARTMENT'S RULES AND REGULATIONS. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

SIGNATURE: _____ DATE: 06/07/2016

Blue Mountain Inc.
Engineers and Land Surveyors
11023 Mason Dixon Hwy. Burton, WV 26562-9656 (304) 662-6486

DAC ENERGY, LLC
PO BOX 99
ALMA, WV 26320

POSTLETHWAIT/ ROCK CAMP WELL SITE
COVER SHEET

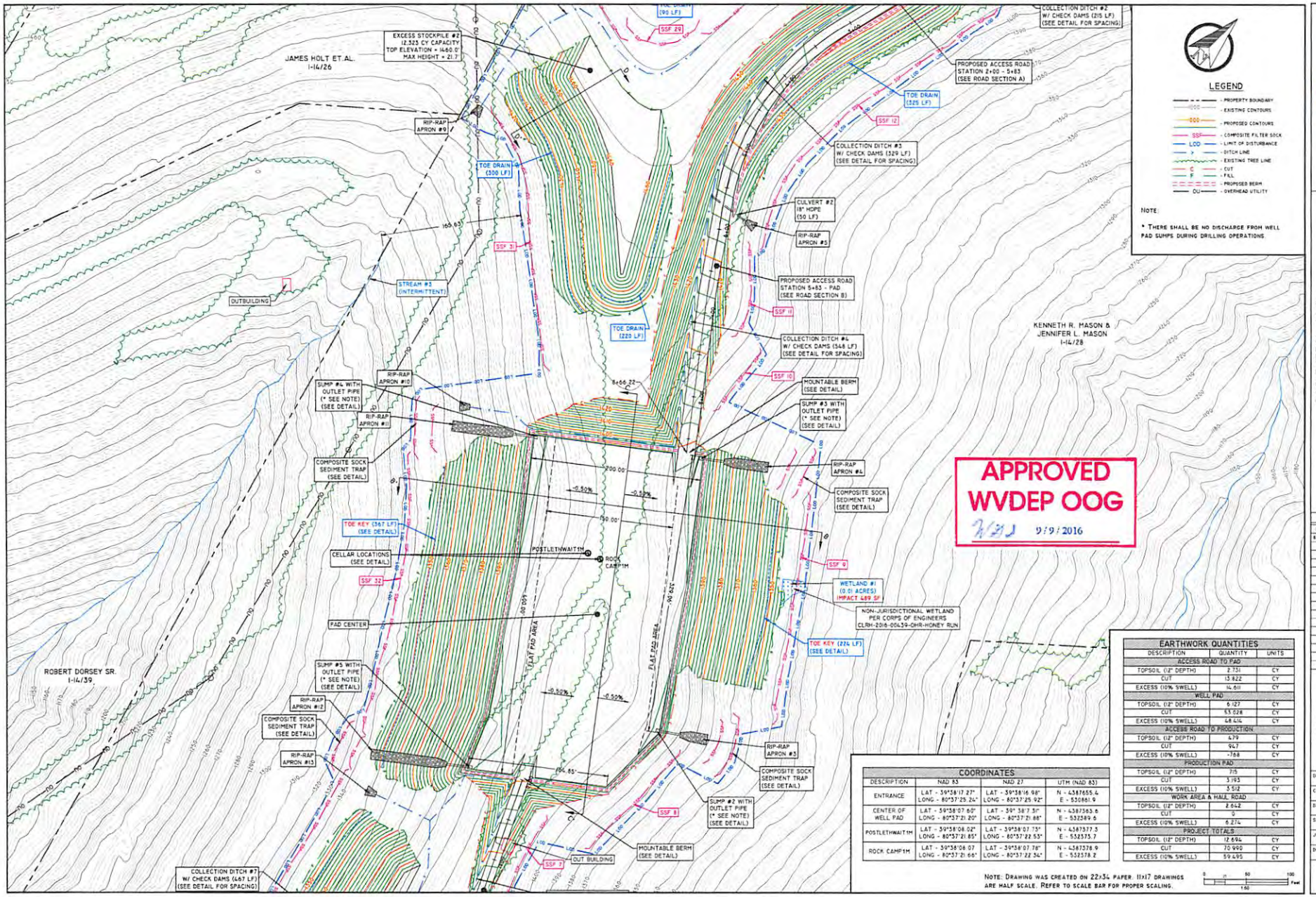
REVISIONS

DATE	TYPE
9/26/16	DEP REVISIONS

JOSHUA DAY
REGISTERED
16852
STATE OF WEST VIRGINIA
PROFESSIONAL ENGINEER

DRAWN BY: NSH
CHECKED BY: JHD
DATE: 06/07/2016
SCALE: AS SHOWN
JOB NO:
DRAWING NAME: POSTLETHWAIT DESIGN

SHEET NO. 1



LEGEND

- PROPERTY BOUNDARY
- EXISTING CONTOURS
- PROPOSED CONTOURS
- SSF - COMPOSITE FILTER SOCK
- LOD - LIMIT OF DISTURBANCE
- DITCH LINE
- EXISTING TREE LINE
- C - CUT
- F - FILL
- PROPOSED BERM
- OU - OVERHEAD UTILITY

NOTE:

* THERE SHALL BE NO DISCHARGE FROM WELL PAD SUMPS DURING DRILLING OPERATIONS.

COORDINATES

DESCRIPTION	NAD 83	NAD 27	UTM (NAD 83)
ENTRANCE	LAT - 39°38'17.27" LONG - 80°37'25.24"	LAT - 39°38'16.98" LONG - 80°37'25.92"	N - 4387655.4 E - 530861.9
CENTER OF WELL PAD	LAT - 39°38'07.60" LONG - 80°37'21.20"	LAT - 39° 38'7.31" LONG - 80°37'21.88"	N - 4387363.6 E - 532589.6
POSTLETHWAIT1M	LAT - 39°38'08.02" LONG - 80°37'21.85"	LAT - 39°38'07.73" LONG - 80°37'22.53"	N - 4387377.3 E - 532575.7
ROCK CAMP1M	LAT - 39°38'08.07 LONG - 80°37'21.66"	LAT - 39°38'07.78" LONG - 80°37'22.34"	N - 4387378.9 E - 532578.2

EARTHWORK QUANTITIES

DESCRIPTION	QUANTITY	UNITS
ACCESS ROAD TO PAD		
TOPSOIL (12" DEPTH)	2,731	CY
CUT	13,922	CY
EXCESS (10% SWELL)	14,611	CY
WELL PAD		
TOPSOIL (12" DEPTH)	6,127	CY
CUT	53,028	CY
EXCESS (10% SWELL)	48,414	CY
ACCESS ROAD TO PRODUCTION		
TOPSOIL (12" DEPTH)	679	CY
CUT	947	CY
EXCESS (10% SWELL)	-768	CY
PRODUCTION PAD		
TOPSOIL (12" DEPTH)	715	CY
CUT	3,193	CY
EXCESS (10% SWELL)	3,512	CY
WORK AREA & HAUL ROAD		
TOPSOIL (12" DEPTH)	2,642	CY
CUT	0	CY
EXCESS (10% SWELL)	6,274	CY
PROJECT TOTALS:		
TOPSOIL (12" DEPTH)	12,694	CY
CUT	70,990	CY
EXCESS (10% SWELL)	59,495	CY

NOTE: DRAWING WAS CREATED ON 22x34 PAPER. 11x17 DRAWINGS ARE HALF SCALE. REFER TO SCALE BAR FOR PROPER SCALING.

0 25 50 100 Feet
1:50

Blue Mountain Inc.
Engineers and Land Surveyors
10123 Mason Dixon Hwy.
Burton, WV 26562-9656
(304) 662-4494

DAC ENERGY, LLC
PO BOX 99
ALMA, WV 26320

POSTLETHWAIT/ ROCK CAMP WELL SITE
DETAILED SITE PLAN (2 OF 4)

REVISIONS

DATE	TYPE
8/24/16	DEP REVISIONS

JOSHUA DIAZ
REGISTERED
16852
STATE OF WEST VIRGINIA
PROFESSIONAL ENGINEER

DRAWN BY: NSH
CHECKED BY: JAD
DATE: 06/07/2016
SCALE: AS SHOWN
JOB NO:
DRAWING NAME: POSTLETHWAIT DESIGN

SHEET NO. 9